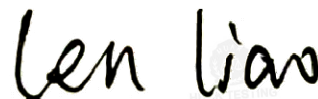


TEST REPORT

Report Reference No......: **HK2504302271-6ER**

Compiled by

(position+printed name+signature)...: Testing engineer Len Liao



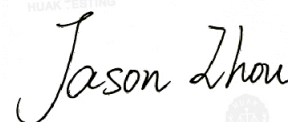
Supervised by

(position+printed name+signature)...: Technique principal Sliver Wan



Approved by

(position+printed name+signature)...: Manager Jason Zhou



Date of issue.....: 2025/06/23

Representative Laboratory Name.....: Shenzhen HUAK Testing Technology Co., Ltd.

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

Applicant's name.....: EDA Technology Shanghai Co.,Ltd

Address.....: Building 29, Shengchuang Enterprise Park, No.1661 Jialuo Road,
Jiading District, Shanghai, PRC

Test specification.....:

Standard.....: **ETSI EN 300 440 V2.2.1 (2018-07)**

TRF Originator.....: Shenzhen HUAK Testing Technology Co., Ltd.

Master TRF.....: Dated 2017-12

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Product Name.....: ED-IPC3100

Trade Mark.....:



Product Model.....: ED-IPC3110

Serial Model.....: ED-IPC3120, ED-IPC3130, ED-IPC3140, ED-PAC3100,
ED-PAC3110, ED-PAC3120, ED-PAC3130, ED-PAC3140

Hardware version.....: V1.2

Software version.....: Debian 12

Operation Frequency.....: From 5745MHz-5825MHz

Ratings.....: DC 12V From Adapter

Result.....: **PASS**

TEST REPORT

Test Report No. :	HK2504302271-6ER	2025/06/23
		Date of issue

Product Name : ED-IPC3100

Product Model : ED-IPC3110

Serial Model : ED-IPC3120, ED-IPC3130, ED-IPC3140, ED-PAC3100, ED-PAC3110, ED-PAC3120, ED-PAC3130, ED-PAC3140

Applicant : EDA Technology Shanghai Co.,Ltd

Address : Building 29, Shengchuang Enterprise Park, No.1661 Jialuo Road, Jiading District, Shanghai, PRC

Manufacturer : EDA Technology Shanghai Co.,Ltd

Address : Building 29, Shengchuang Enterprise Park, No.1661 Jialuo Road, Jiading District, Shanghai, PRC

Test Result:	PASS
--------------	------

The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

**** Modified History ****

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	2025/06/23	Jason Zhou

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1. TEST STANDARDS

The tests were performed according to following standards:

[ETSI EN 300 440 V2.2.1 \(2018-07\)](#) : Short Range Devices (SRD); Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

2. SUMMARY

2.1. General Remarks

Date of receipt of test sample	:	2025/04/30
Testing commenced on	:	2025/04/30
Testing concluded on	:	2025/06/23

2.2. Product Description

Product Name	ED-IPC3100
Product Model	ED-IPC3110
Serial Model	ED-IPC3120, ED-IPC3130, ED-IPC3140, ED-PAC3100, ED-PAC3110, ED-PAC3120, ED-PAC3130, ED-PAC3140
Difference description	The main difference between different models is the number of RS232 and RS485 interfaces, and the model with the most interfaces is ED-IPC3110.
Power supply:	DC 12V From Adapter
Adapter information:	Input: AC 100-240V, 50/60Hz, 0.6A Output: DC 12V/2.0A, 24.0W Model: KSASB0241200200D5
Antenna Type	External Antenna
Antenna Gain	2.0dBi
WLAN	Supported 802.11a/802.11n HT20/802.11n HT40/802.11ac HT20/802.11ac HT40/802.11ac HT80
Operation frequency	IEEE 802.11a/ IEEE 802.11n HT20/802.11ac HT20:5745MHz-5825MHz IEEE 802.11n HT40/ IEEE 802.11ac HT40:5755-5795MHz IEEE 802.11ac HT80:5775MHz
Modulation Type	IEEE 802.11a: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK,BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ac HT20: OFDM(256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac HT40: OFDM (256QAM, 64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ac HT80: OFDM (256QAM, 64QAM, 16QAM, QPSK,BPSK)
Receiver category	Receiver category 2
Remark: The products are identical in interior structure, electrical circuits and components, just model names are different.	
Note:Antenna gain Refer to the antenna specifications. The cable loss data is obtained from the supplier. The test results in the report only apply to the tested sample.	

2.3. Equipment Under Test

Power supply system utilised

Power supply voltage	:	<input type="radio"/> 230V / 50 Hz	<input type="radio"/> 120V / 60Hz
		<input type="radio"/> 12 V DC	<input type="radio"/> 24 V DC
		<input checked="" type="radio"/> Other (specified in blank below)	

DC 12V From Adapter

Description of the test mode

Channel	Frequency (MHz)
149	5745
151	5755
153	5765
155	5775
157	5785
159	5795
161	5805
165	5825

2.4. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

● - supplied by the manufacturer

○ - supplied by the lab

○ /	M/N: /
	Manufacturer: /

2.5. Test summary

ETSI EN 300 440 Requirements		
Equivalent isotropic radiated power(Radiated)	ETSI EN 300 440 Sub-clause 4.2.2	Pass
Permitted range of operating frequencies	ETSI EN 300 440 Sub-clause 4.2.3	Pass
Spurious emissions	ETSI EN 300 440 Sub-clause 4.2.4	Pass
Duty cycle	ETSI EN 300 440 Sub-clause 4.2.5	N/A
Additional requirements for FHSS equipment	ETSI EN 300 440 Sub-clause 4.2.6	N/A ^{Note 1}
Adjacent channel selectivity	ETSI EN 300 440 Sub-clause 4.3.3	Pass
Blocking or desensitization	ETSI EN 300 440 Sub-clause 4.3.4	Pass
Receiver Spurious emissions	ETSI EN 300 440 Sub-clause 4.3.5	Pass
Spectrum access techniques	ETSI EN 300 440 Sub-clause 4.4	Pass ^{Note 2}

Note 1: Which only applicable to FHSS system device.

Note 2: The manufacturer declares compliance with Section 4.4(Spectrum access techniques)

2.6. Modifications

No modifications were implemented to meet testing criteria.

3. TEST ENVIRONMENT

3.1. Information of the Test Laboratory

Shenzhen HUAKE Testing Technology Co., Ltd.
1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street,
Bao'an District, Shenzhen, Guangdong, China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 (2014) and CISPR Publication 22.

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.

3.2. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Normal Temperature: 25 °C
High Temperature: 40 °C
Low Temperature: -10 °C
Normal Voltage : DC 12V
High Voltage:DC 13.2V
Low Voltage:DC 10.8V
Relative Humidity: 55 %
Air Pressure: 989 hPa

3.3. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics;Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics;Part 2 " and is documented in the Shenzhen HUAKE Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen HUAKE Testing Technology Co., Ltd is reported:

Test Items	Measurement Uncertainty	Notes
Conducted spurious emission	1.60 dB	(1)
Radiated spurious emission	2.20 dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3.4. Equipments Used during the Test

RF output power & PSD & OOB & OBW & Hoping & Duty Cycle, Tx-sequence, Tx-gap & Adaptively&Blocking						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
1	Spectrum analyzer	Agilent	N9020A	HKE-048	2025/02/19	2026/02/18
2	Signal generator	Agilent	83630A	HKE-028	2025/02/19	2026/02/18
3	Signal generator	Agilent	N5182A	HKE-029	2025/02/19	2026/02/18
4	RF automatic control unit	Tonscend	JS0806-2	HKE-060	2025/02/19	2026/02/18
5	Temperature and humidity meter	Boyang	HTC-1	HKE-075	2025/02/19	2026/02/18
6	RF test software	Tonscend	V3.5.39	HKE-083	/	/

Transmitter spurious emissions & Receiver spurious emissions						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
1	Broadband antenna	Schwarzbeck	VULB 9163	HKE-012	2024/02/21	2026/02/20
2	Horn antenna	Schwarzbeck	9120D	HKE-013	2024/02/21	2026/02/20
3	Receiver	R&S	ESR-7	HKE-010	2025/02/19	2026/02/18
4	Position controller	Taiwan MF	MF7802	HKE-011	2025/02/19	2026/02/18
5	Preamplifier	Schwarzbeck	EMC05184 5SE	HKE-015	2025/02/19	2026/02/18
6	Preamplifier	Agilent	83051A	HKE-016	2025/02/19	2026/02/18
7	High pass filter unit	Tonscend	JS0806-F	HKE-055	2025/02/19	2026/02/18
8	Spectrum analyzer	Agilent	N9020A	HKE-048	2025/02/19	2026/02/18
9	Temperature and humidity meter	Boyang	HTC-1	HKE-077	2025/02/19	2026/02/18
10	RSE Test Software	Tonscend	JS36-RSE 5.0.0	HKE -184	/	/

4. TEST CONDITIONS AND RESULTS

4.1. 6dB Bandwidth

Limit

N/A

Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100 KHz RBW and 300 KHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

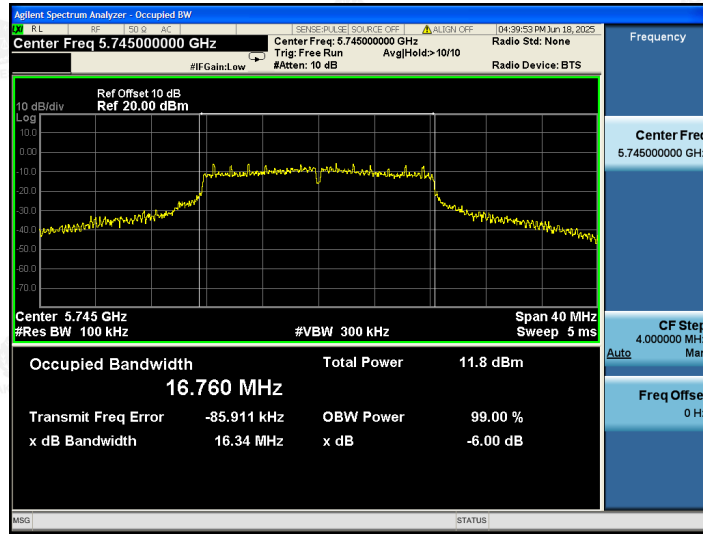
Test Configuration



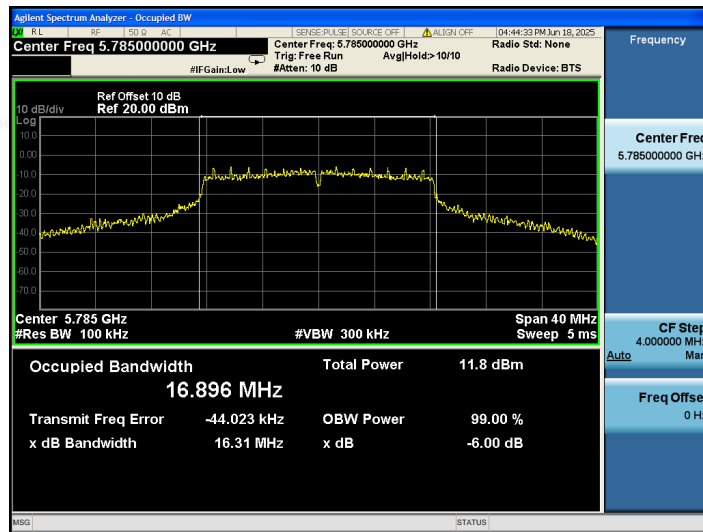
Test Results

Type	Channel	6dB Bandwidth (MHz)	Limit (KHz)	Result
802.11a	149	16.76	N/A	N/A
	157	16.90		
	165	16.83		
802.11 n HT 20	149	17.80	N/A	N/A
	157	17.83		
	165	17.82		
802.11 n HT 40	151	36.67	N/A	N/A
	159	36.65		
802.11 ac HT 20	149	17.78	N/A	N/A
	157	17.80		
	165	17.91		
802.11 ac HT 40	151	36.58	N/A	N/A
	159	36.48		
802.11 ac HT 80	155	76.35	N/A	N/A

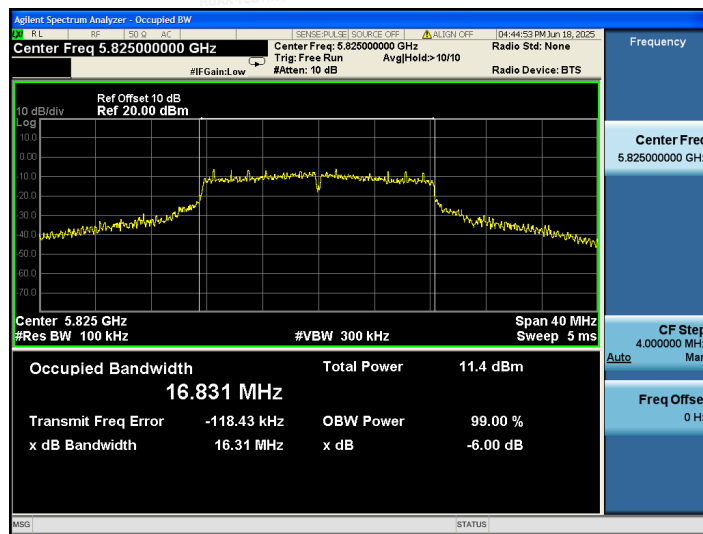
802.11a-5745



802.11a-5785

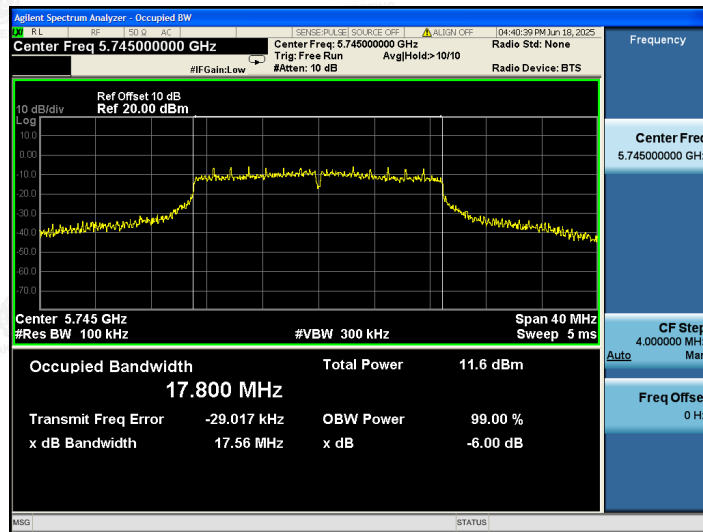


802.11a-5825

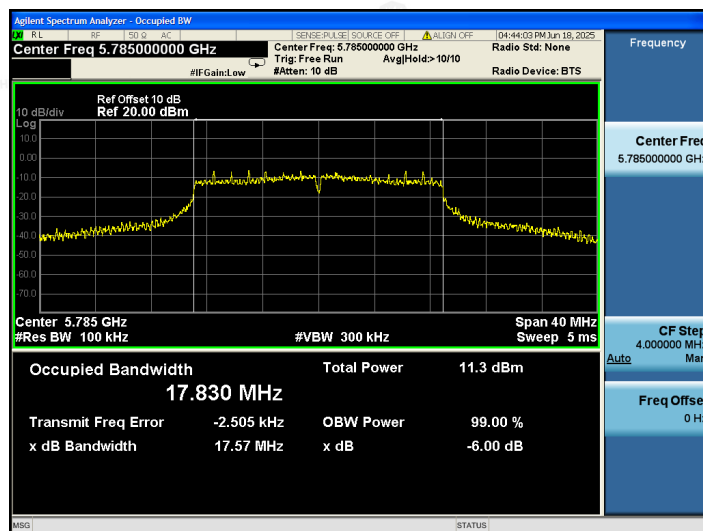


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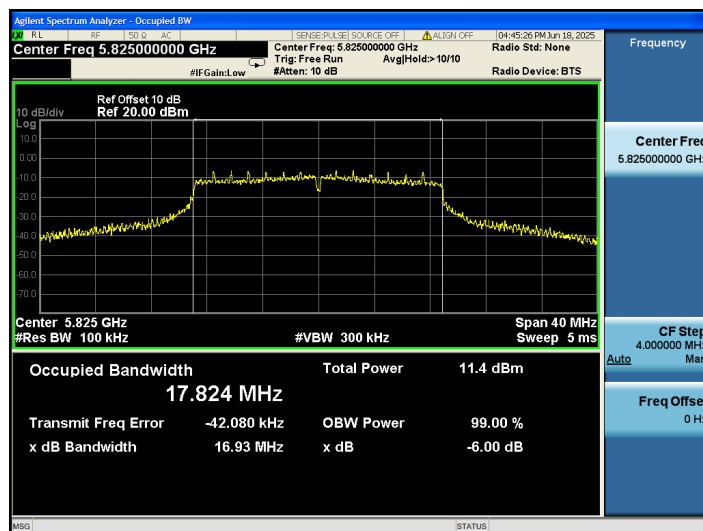
802.11n HT20-5745



802.11n HT20-5785

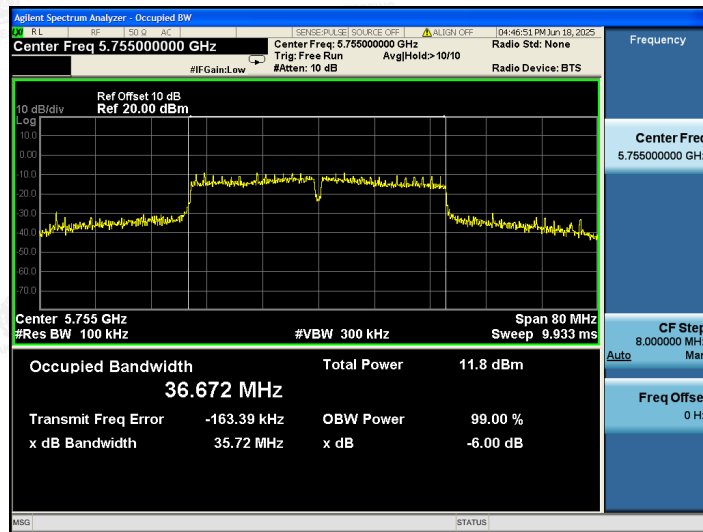


802.11n HT20-5825

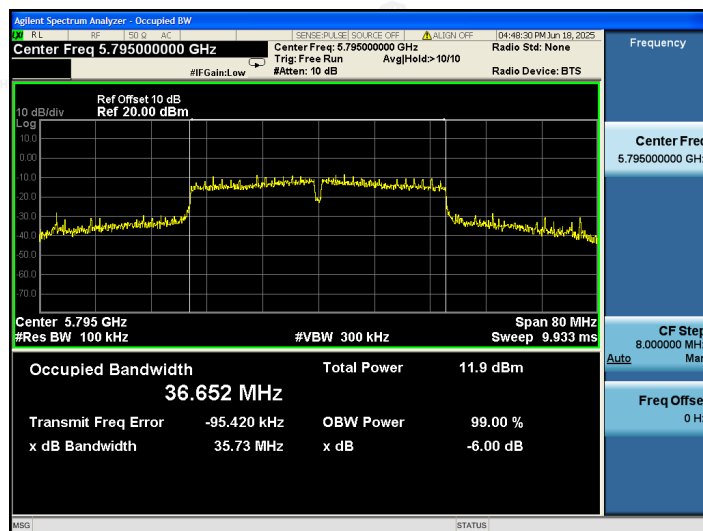


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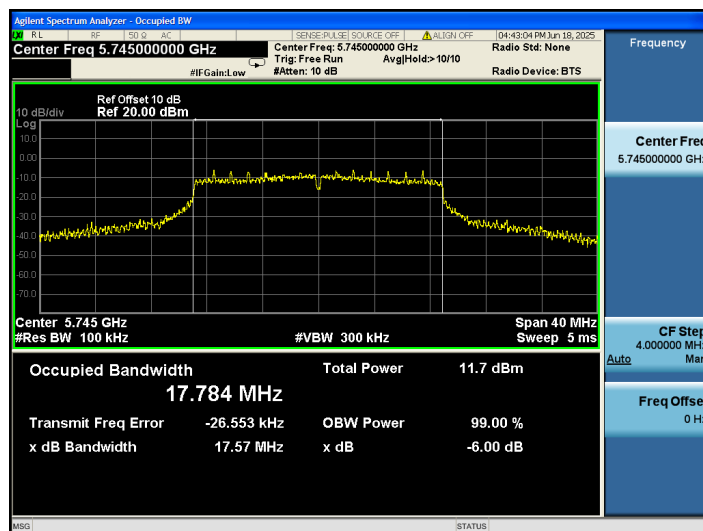
802.11n HT40-5755



802.11n HT40-5795

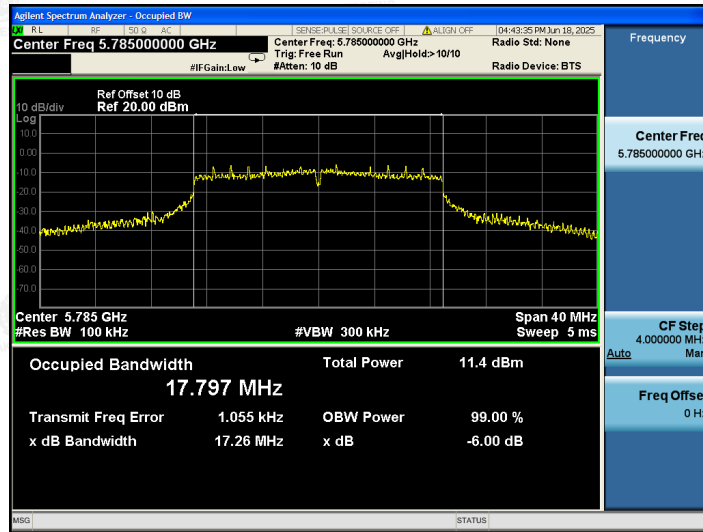


802.11ac HT20-5745

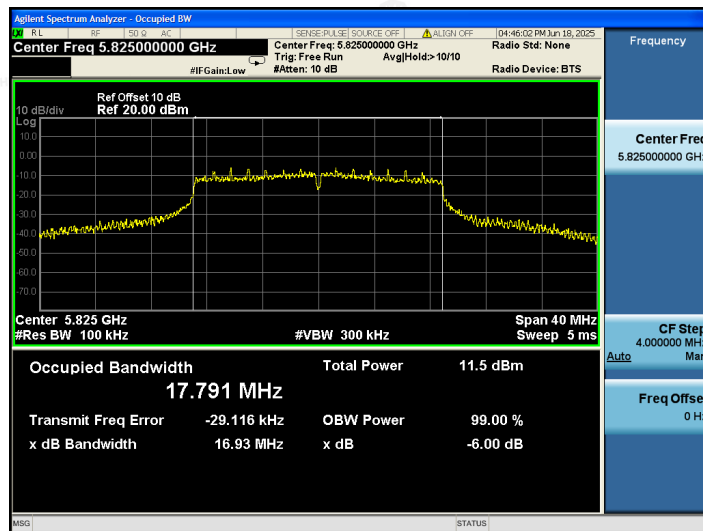


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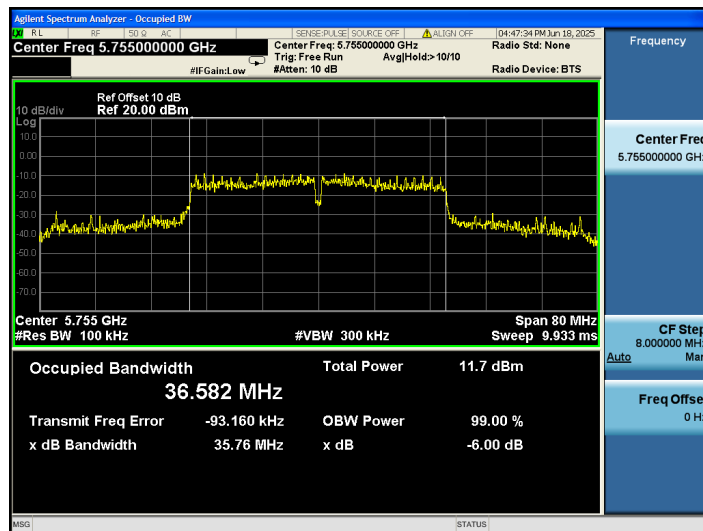
802.11ac HT20-5785



802.11ac HT20-5825



802.11ac HT40-5755



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4.2. Equivalent Isotropically Radiated Power (e.i.r.p)

LIMIT

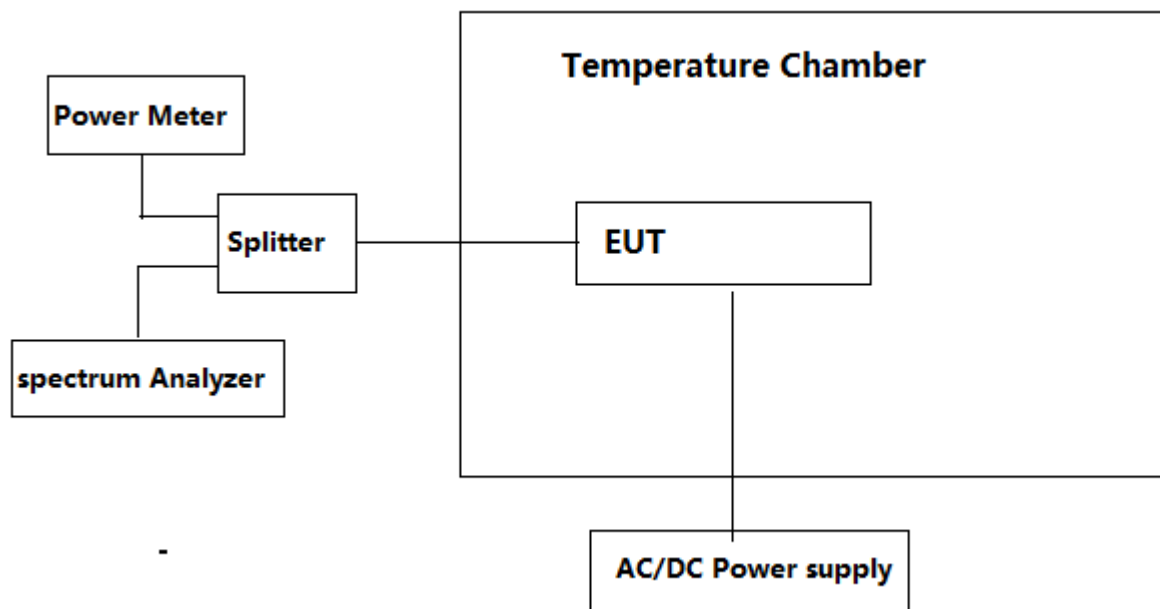
According to ETSI EN 300 440 clause 4.2.2.3.2

The transmitter maximum e.i.r.p. under normal and extreme test conditions shall not exceed the values given in table 2.

Table 2: Maximum radiated peak power (e.i.r.p.)

Frequency Bands	Power	Application	Notes
2 400 MHz to 2 483,5 MHz	10 mW e.i.r.p.	Non-specific short range devices	
2 400 MHz to 2 483,5 MHz	25 mW e.i.r.p.	Radio determination devices	
(a) 2 446 MHz to 2 454 MHz	500 mW e.i.r.p.	Radio Frequency Identification (RFID) devices	See also table 4 and annex D
(b) 2 446 MHz to 2 454 MHz	4 W e.i.r.p.	Radio Frequency Identification (RFID) devices	See also table 4 and annex D
5 725 MHz to 5 875 MHz	25 mW e.i.r.p.	Non-specific short range devices	
9 200 MHz to 9 500 MHz	25 mW e.i.r.p.	Radio determination devices	
9 500 MHz to 9 975 MHz	25 mW e.i.r.p.	Radio determination devices	
10,5 GHz to 10,6 GHz	500 mW e.i.r.p.	Radio determination devices	
13,4 GHz to 14,0 GHz	25 mW e.i.r.p.	Radio determination devices	
17,1 GHz to 17,3 GHz	400 mW e.i.r.p.	Radio determination devices	See annex F
24,00 GHz to 24,25 GHz	100 mW e.i.r.p.	Non-specific short range devices and Radio determination devices	

TEST CONFIGURATION



TEST PROCEDURE

1. Please refer to ETSI EN 300 440 clause 5 for the test conditions.
2. Please refer to ETSI EN 300 440 clause 4.2.2.3 for the measurement method.
3. According to the -6 dB channel bandwidth measurement result, the test procedure define in Sub-clause clause 4.2.2.3.2 is used for 802.11a HT20/802.11n HT20/802.11n HT40/802.11ac HT20/802.11ac HT40/802.11ac HT80 test.

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TEST RESULTS

802.11a							
Test conditions		Channel/ Frequency	Measured power (dBm)	Antenna Gain (dBi)	e.i.r.p (dBm)	Limit (dBm)	Result
Temperature (°C)	Voltage (V)						
+25°C	12.0V	149/5745	10.33	2.0	12.33	13.98	PASS
-10°C	13.2V		10.11	2.0	12.11		
	10.8V		9.58	2.0	11.58		
+40°C	13.2V		10.27	2.0	12.27		
	10.8V		9.05	2.0	11.05		
+25°C	12.0V	157/5785	10.57	2.0	12.57		
-10°C	13.2V		8.84	2.0	10.84		
	10.8V		9.07	2.0	11.07		
+40°C	13.2V		9.50	2.0	11.50		
	10.8V		9.84	2.0	11.84		
+25°C	12.0V	165/5825	10.11	2.0	12.11		
-10°C	13.2V		8.70	2.0	10.70		
	10.8V		10.13	2.0	12.13		
+40°C	13.2V		9.00	2.0	11.00		
	10.8V		9.52	2.0	11.52		

802.11n HT 20							
Test conditions		Channel/ Frequency	Measured power (dBm)	Antenna Gain (dBi)	e.i.r.p (dBm)	Limit (dBm)	Result
Temperature (°C)	Voltage (V)						
+25°C	12.0V	149/5745	10.34	2.0	12.34	13.98	PASS
-10°C	13.2V		9.61	2.0	11.61		
	10.8V		8.33	2.0	10.33		
+40°C	13.2V		8.44	2.0	10.44		
	10.8V		8.54	2.0	10.54		
+25°C	12.0V	157/5785	10.29	2.0	12.29		
-10°C	13.2V		8.76	2.0	10.76		
	10.8V		10.05	2.0	12.05		
+40°C	13.2V		8.93	2.0	10.93		
	10.8V		8.39	2.0	10.39		
+25°C	12.0V	165/5825	9.85	2.0	11.85		
-10°C	13.2V		9.06	2.0	11.06		
	10.8V		8.48	2.0	10.48		
+40°C	13.2V		8.77	2.0	10.77		
	10.8V		8.70	2.0	10.70		

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802.11n HT 40							
Test conditions		Channel/ Frequency	Measured power (dBm)	Antenna Gain (dBi)	e.i.r.p (dBm)	Limit (dBm)	Result
Temperature (°C)	Voltage (V)						
+25°C	12.0V	151/5755	9.67	2.0	11.67	13.98	PASS
-10°C	13.2V		8.61	2.0	10.61		
	10.8V		8.90	2.0	10.90		
+40°C	13.2V		9.03	2.0	11.03		
	10.8V		7.56	2.0	9.56		
+25°C	12.0V	159/5795	9.00	2.0	11.00		
-10°C	13.2V		8.44	2.0	10.44		
	10.8V		8.95	2.0	10.95		
+40°C	13.2V		8.17	2.0	10.17		
	10.8V		7.61	2.0	9.61		

802.11ac HT 20							
Test conditions		Channel/ Frequency	Measured power (dBm)	Antenna Gain (dBi)	e.i.r.p (dBm)	Limit (dBm)	Result
Temperature (°C)	Voltage (V)						
+25°C	12.0V	149/5745	9.62	2.0	11.62	13.98	PASS
-10°C	13.2V		8.80	2.0	10.80		
	10.8V		8.82	2.0	10.82		
+40°C	13.2V		7.23	2.0	9.23		
	10.8V		7.09	2.0	9.09		
+25°C	12.0V	157/5785	8.86	2.0	10.86		
-10°C	13.2V		7.72	2.0	9.72		
	10.8V		5.88	2.0	7.88		
+40°C	13.2V		7.68	2.0	9.68		
	10.8V		6.45	2.0	8.45		
+25°C	12.0V	165/5825	8.36	2.0	10.36		
-10°C	13.2V		7.65	2.0	9.65		
	10.8V		7.77	2.0	9.77		
+40°C	13.2V		7.33	2.0	9.33		
	10.8V		7.65	2.0	9.65		

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

802.11ac HT 40							
Test conditions		Channel/ Frequency	Measured power (dBm)	Antenna Gain (dBi)	e.i.r.p (dBm)	Limit (dBm)	Result
Temperature (°C)	Voltage (V)						
+25°C	12.0V	151/5755	8.53	2.0	10.53	13.98	PASS
-10°C	13.2V		7.87	2.0	9.87		
	10.8V		7.57	2.0	9.57		
+40°C	13.2V		7.26	2.0	9.26		
	10.8V		7.02	2.0	9.02		
+25°C	12.0V	159/5795	8.14	2.0	10.14		
-10°C	13.2V		6.74	2.0	8.74		
	10.8V		7.88	2.0	9.88		
+40°C	13.2V		6.94	2.0	8.94		
	10.8V		6.05	2.0	8.05		

802.11ac HT 80							
Test conditions		Channel/ Frequency	Measured power (dBm)	Antenna Gain (dBi)	e.i.r.p (dBm)	Limit (dBm)	Result
Temperature (°C)	Voltage (V)						
+25°C	12.0V	155/5775	7.31	2.0	9.31	13.98	PASS
-10°C	13.2V		6.51	2.0	8.51		
	10.8V		6.44	2.0	8.44		
+40°C	13.2V		5.72	2.0	7.72		
	10.8V		5.95	2.0	7.95		

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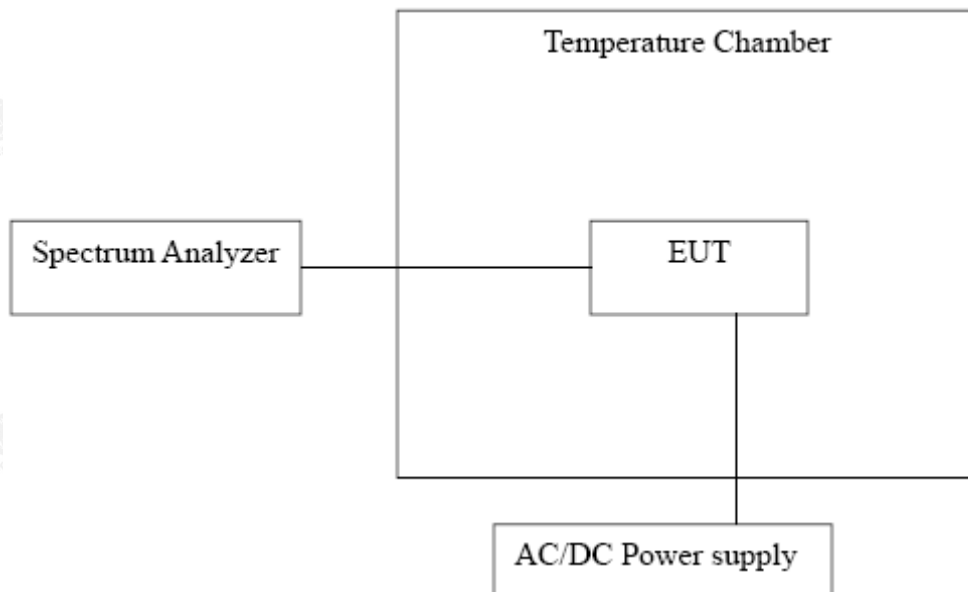
4.3. Permitted Range of Operating Frequencies

LIMIT

According to ETSI EN 300 440 clause 4.2.3.5

Frequency range Limit	
$F_{Low} > 5725G$	$F_{High} < 5875GHz$

TEST CONFIGURATION



TEST PROCEDURE

1. Please refer to ETSI EN 300 440 clause 5 for the test conditions.
2. Please refer to ETSI EN 300 440 clause 4.2.3.3 for the measurement method.

TEST RESULTS

802.11a					
Test Condition		f _L (MHz)	f _H (MHz)	Limit	Result
Temperature (°C)	Voltage (V)				
+25°C	12.0V	5736.48	5833.40	f _L ≥ 5725MHz and f _H ≤ 5875MHzGHz	Pass
-10°C	13.2V	5736.56	5833.47		
	10.8V	5736.52	5833.53		
+40°C	13.2V	5736.49	5833.39		
	10.8V	5736.27	5833.35		

802.11n HT20					
Test Condition		f _L (MHz)	f _H (MHz)	Limit	Result
Temperature (°C)	Voltage (V)				
+25°C	12.0V	5735.84	5834.00	f _L ≥ 5725MHz and f _H ≤ 5875MHzGHz	Pass
-10°C	13.2V	5735.91	5834.42		
	10.8V	5735.99	5834.55		
+40°C	13.2V	5735.78	5834.61		
	10.8V	5735.56	5834.73		

802.11n HT40					
Test Condition		f _L (MHz)	f _H (MHz)	Limit	Result
Temperature (°C)	Voltage (V)				
+25°C	12.0V	5736.36	5813.56	f _L ≥ 5725MHz and f _H ≤ 5875MHzGHz	Pass
-10°C	13.2V	5736.56	5813.58		
	10.8V	5736.72	5813.67		
+40°C	13.2V	5736.60	5813.91		
	10.8V	5736.21	5813.48		

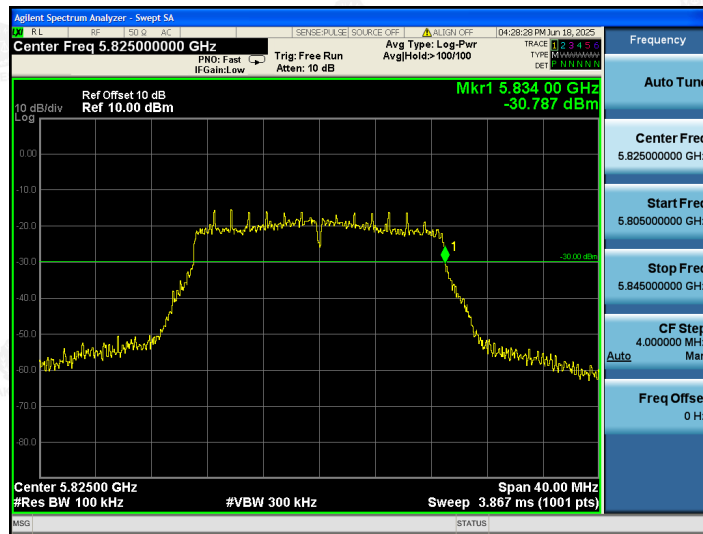
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802.11ac HT20				
Test Condition		f _L (MHz)	f _H (MHz)	Limit
Temperature (°C)	Voltage (V)			
+25°C	12.0V	5735.96	5834.00	f _L ≥ 5725MHz and f _H ≤ 5875MHzGHz
-10°C	13.2V	5735.99	5834.12	
	10.8V	5735.87	5834.34	
+40°C	13.2V	5735.76	5834.56	
	10.8V	5735.35	5834.27	
				Pass

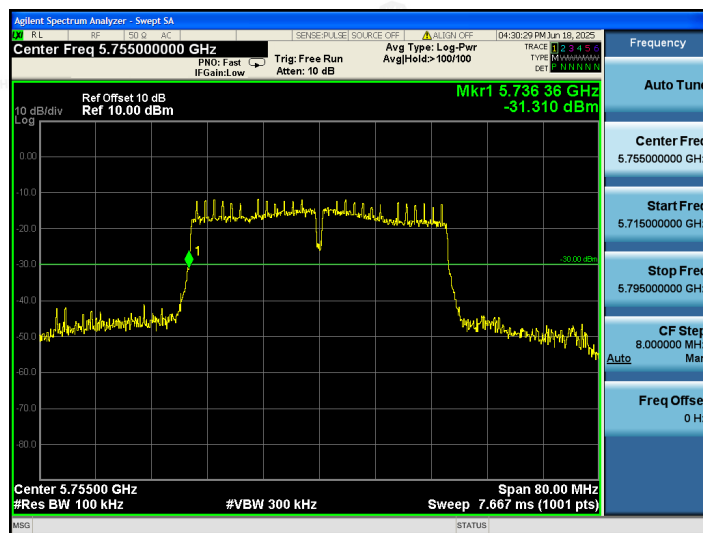
802.11ac HT40				
Test Condition		f _L (MHz)	f _H (MHz)	Limit
Temperature (°C)	Voltage (V)			
+25°C	12.0V	5736.20	5813.64	f _L ≥ 5725MHz and f _H ≤ 5875MHzGHz
-10°C	13.2V	5736.45	5813.40	
	10.8V	5736.23	5813.77	
+40°C	13.2V	5736.24	5813.34	
	10.8V	5736.56	5813.39	
				Pass

802.11ac HT80				
Test Condition		f _L (MHz)	f _H (MHz)	Limit
Temperature (°C)	Voltage (V)			
+25°C	12.0V	5736.60	5813.40	f _L ≥ 5725MHz and f _H ≤ 5875MHzGHz
-10°C	13.2V	5736.50	5813.52	
	10.8V	5736.75	5813.63	
+40°C	13.2V	5736.69	5813.42	
	10.8V	5736.51	5813.41	
				Pass

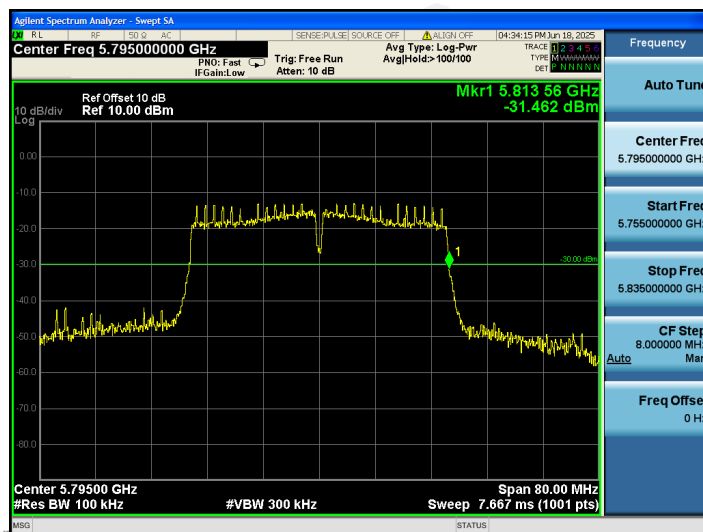
802.11n HT20 5825



802.11n HT40 5755

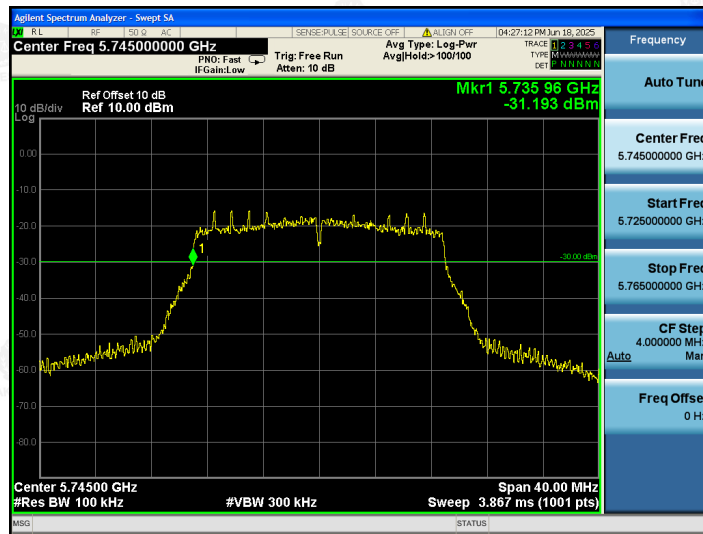


802.11n HT40 5795

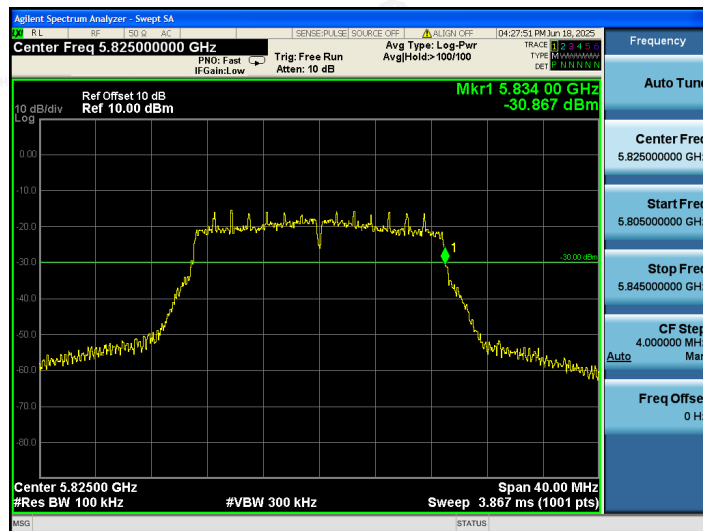


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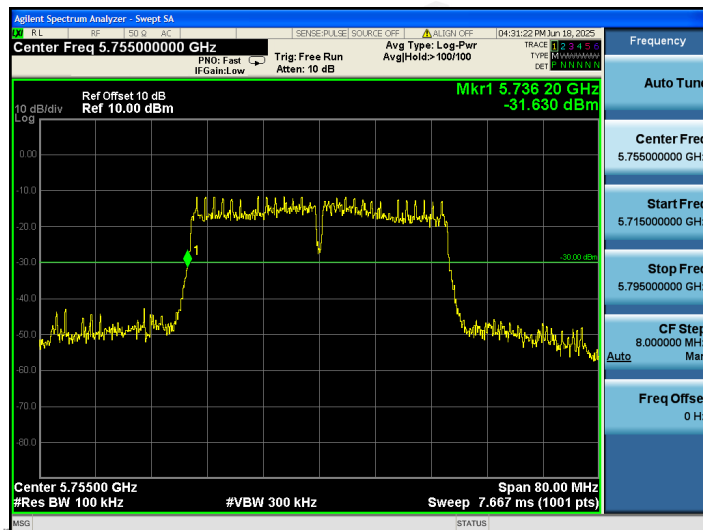
802.11ac HT20 5745



802.11ac HT20 5825

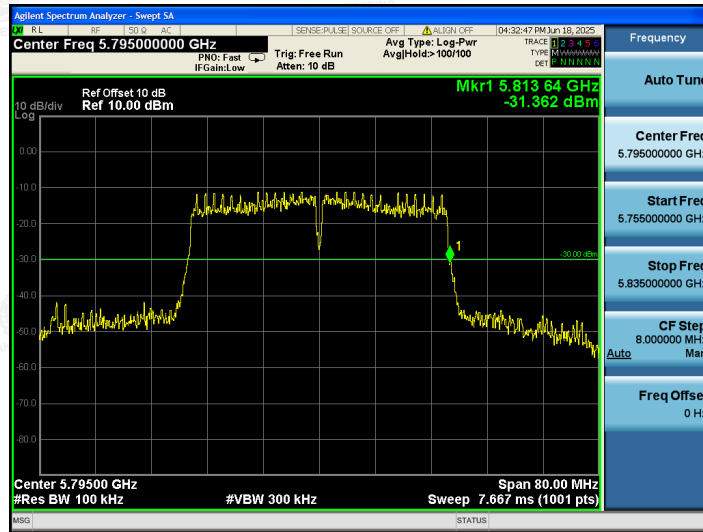


802.11ac HT40 5755

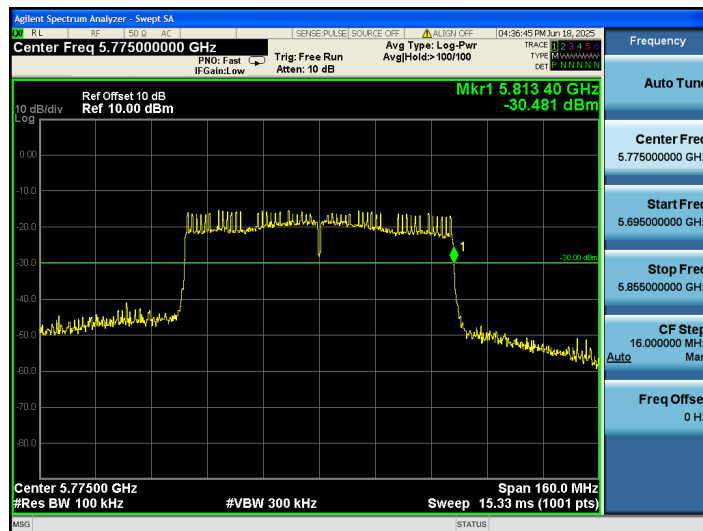
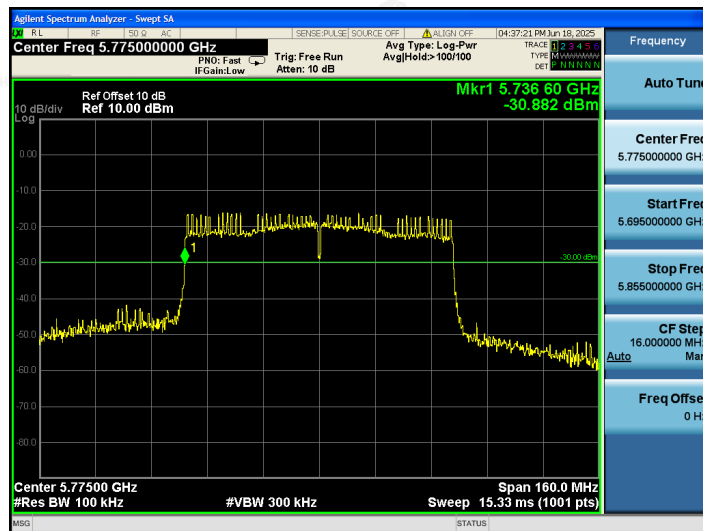


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802.11ac HT40 5795



802.11ac HT80 5775



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4.4. Spurious emissions and cabinet

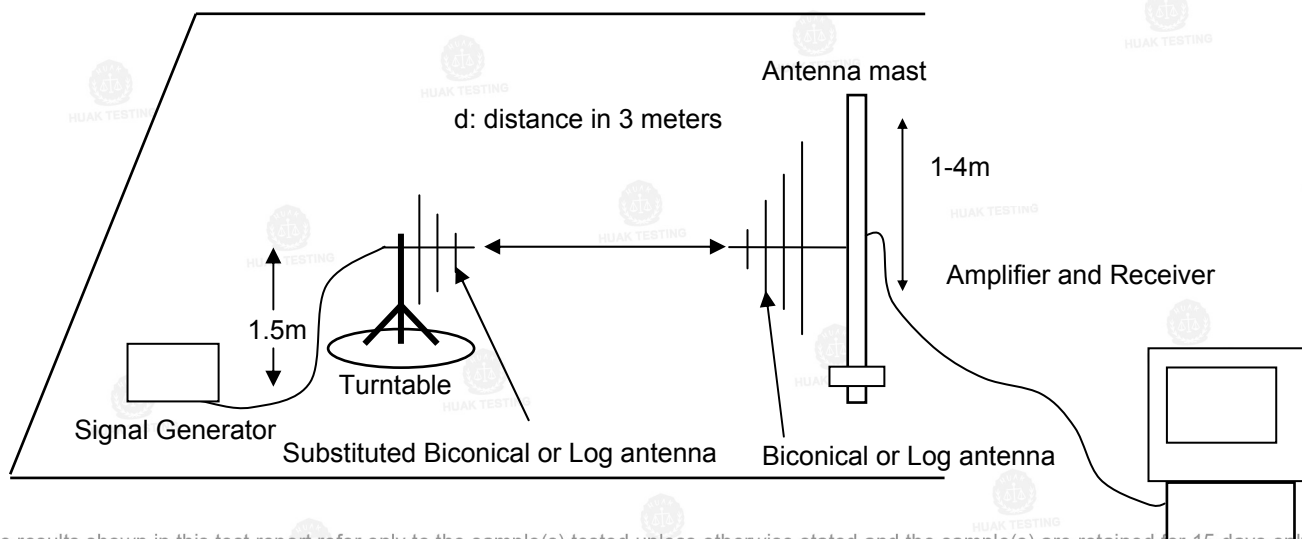
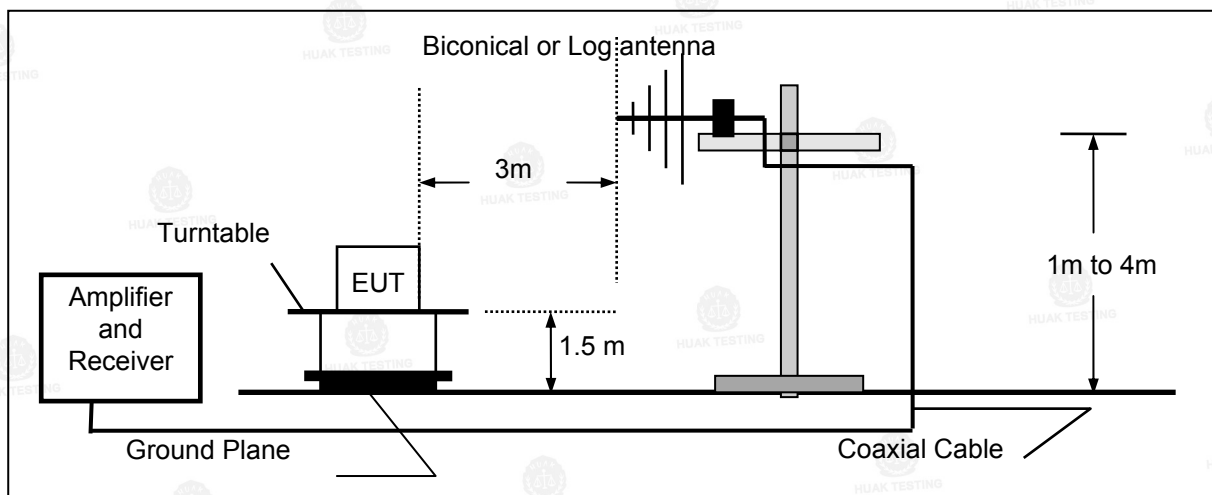
LIMIT

The power of the spurious emissions shall not exceed the limits of table

State	47 MHz to 74 MHz 87.5 MHz to 118 MHz 174 MHz to 230 MHz 470 MHz to 862 MHz	Other frequencies $\leq 1\ 000\ \text{MHz}$	Frequencies $> 1\ 000\ \text{MHz}$
Operating	4 nW /-54dBm	250 nW/-36dBm	1 μW /-30dBm
Standby	2 nW /-57dBm	2 nW /-57dBm	20 nW /-47dBm

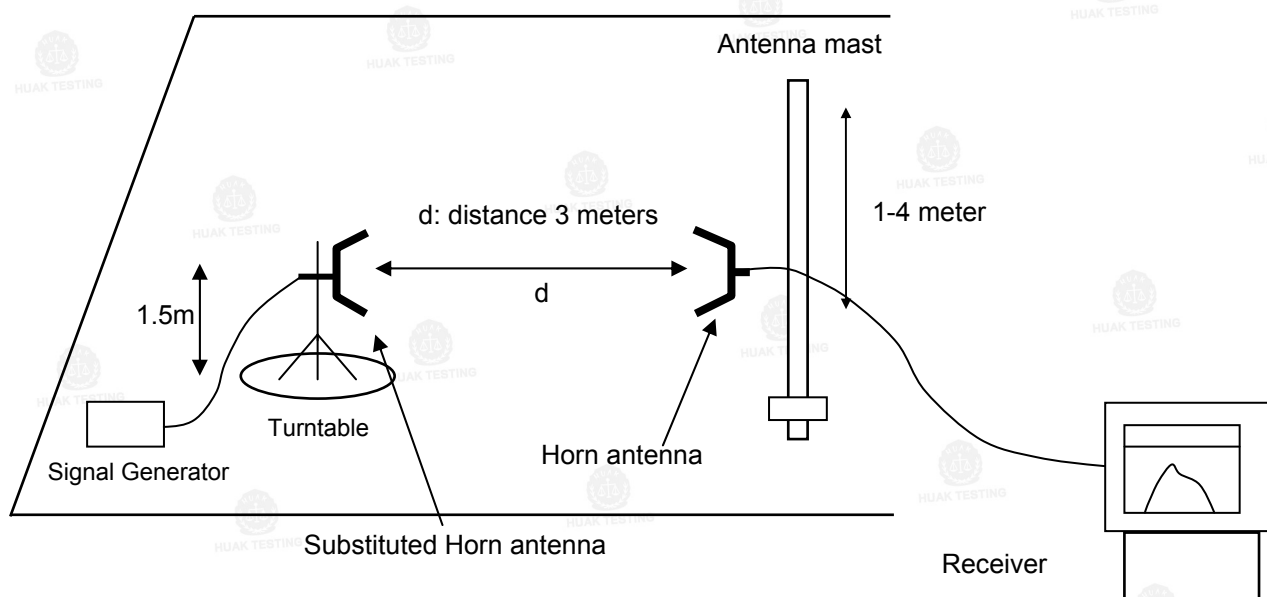
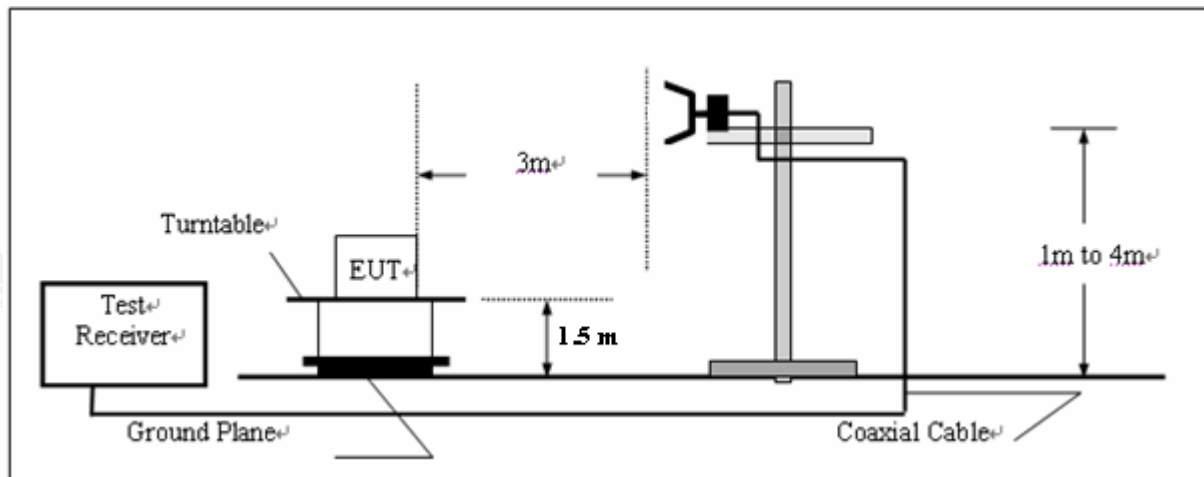
TEST CONFIGURATION

Below 1GHz



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Above 1GHz



TEST PROCEDURE

1. Please refer to ETSI EN 300 440 clause 5 for the test conditions.
2. Please refer to ETSI EN 300 440 clause 4.2.4.3 for the measurement method.

TEST RESULTS

Note: We tested at 802.11a/802.11n HT20/802.11n HT40/802.11ac HT20/802.11ac HT40/802.11ac HT80 mode at the antenna single transmitting mode and the Mimo mode, and recorded the worst case 802.11n HT 20 mode at the Mimo mode. The measurement frequency range is from 25MHz to the 10th harmonic of the fundamental frequency, not exceeding 40GHz. 18GHz-40GHz not recorded for no spurious point have a margin of less than 6 dB with respect to the limits.

802.11n HT 20, CH 149, Horizontal/Vertical

Fre. (MHz)	ANT. Pol.	Result (dBm)	Limit	Margin	Conclusion
Below 1GHz:					
140.87	V	-73.30	-36	-37.30	PASS
214.69	V	-72.52	-54	-18.52	PASS
296.01	V	-73.08	-36	-37.08	PASS
383.65	V	-75.30	-36	-39.30	PASS
486.51	V	-74.01	-54	-20.01	PASS
800.37	V	-77.67	-54	-23.67	PASS
175.79	H	-73.78	-54	-19.78	PASS
234.44	H	-75.97	-36	-39.97	PASS
338.07	H	-76.55	-36	-40.55	PASS
394.92	H	-72.22	-36	-36.22	PASS
598.32	H	-77.72	-54	-23.72	PASS
842.20	H	-79.00	-54	-25.00	PASS
Note: 1. Cable loss and antenna gain was combined in the calculated result. 2. Other point of the measurements are below 20dB from the limit.					

Fre. (MHz)	ANT. Pol.	Result (dBm)	Limit	Margin	Conclusion
Above 1GHz:					
2088.69	V	-57.84	-30	-27.84	PASS
2330.72	V	-56.75	-30	-26.75	PASS
3428.39	V	-52.10	-30	-22.10	PASS
4136.95	V	-57.15	-30	-27.15	PASS
5482.17	V	-49.31	-30	-19.31	PASS
5873.86	V	-52.63	-30	-22.63	PASS
2166.55	H	-49.63	-30	-19.63	PASS
2503.03	H	-60.47	-30	-30.47	PASS
3039.50	H	-53.15	-30	-23.15	PASS
3685.85	H	-56.71	-30	-26.71	PASS
4885.82	H	-56.32	-30	-26.32	PASS
6646.49	H	-52.95	-30	-22.95	PASS
Note: 1.Cable loss and antenna gain was combined in the calculated result. 2. Other point of the measurements are below 20dB from the limit.					

802.11n HT 20, CH 165, Horizontal/Vertical

Fre. (MHz)	ANT. Pol.	Result (dBm)	Limit	Margin	Conclusion
Below 1GHz:					
187.56	V	-76.82	-36	-40.82	PASS
242.88	V	-75.92	-54	-21.92	PASS
270.02	V	-77.21	-36	-41.21	PASS
370.95	V	-79.38	-36	-43.38	PASS
443.74	V	-72.56	-36	-36.56	PASS
791.95	V	-76.90	-54	-22.90	PASS
184.79	H	-70.25	-36	-34.25	PASS
237.62	H	-75.67	-54	-21.67	PASS
317.76	H	-78.51	-36	-42.51	PASS
407.79	H	-74.30	-36	-38.30	PASS
592.22	H	-75.80	-54	-21.80	PASS
823.66	H	-83.08	-54	-29.08	PASS
Note: 1.Cable loss and antenna gain was combined in the calculated result. 2. Other point of the measurements are below 20dB from the limit.					

Fre. (MHz)	ANT. Pol.	Result (dBm)	Limit	Margin	Conclusion
Above 1GHz:					
1973.44	V	-51.08	-30	-21.08	PASS
2549.78	V	-53.61	-30	-23.61	PASS
3609.08	V	-57.58	-30	-27.58	PASS
4412.69	V	-54.80	-30	-24.80	PASS
5333.70	V	-53.92	-30	-23.92	PASS
6018.58	V	-55.08	-30	-25.08	PASS
2277.00	H	-51.10	-30	-21.10	PASS
2371.13	H	-61.29	-30	-31.29	PASS
3105.72	H	-53.69	-30	-23.69	PASS
4018.85	H	-59.18	-30	-29.18	PASS
4939.04	H	-48.01	-30	-18.01	PASS
6626.01	H	-43.84	-30	-13.84	PASS
Note: 1.Cable loss and antenna gain was combined in the calculated result. 2. Other point of the measurements are below 20dB from the limit.					

4.5. Duty cycle

According to ETSI EN 300 440 clause 4.2.5.4

Table 4 defines the maximum duty cycle within a 1 hour period.

Table 4: Duty cycle limits

Frequency Band	Duty cycle	Application	Notes
2 400 MHz to 2 483,5 MHz	No Restriction	Generic use	
2 400 MHz to 2 483,5 MHz	No Restriction	Detection, movement and alert applications	
(a) 2 446 MHz to 2 454 MHz	No Restriction	RFID	Limits shown in annex D shall apply
(b) 2 446 MHz to 2 454 MHz	≤ 15 %	RFID	Limits shown in annex D shall apply
5 725 MHz to 5 875 MHz	No Restriction	Generic use	
9 200 MHz to 9 500 MHz	No Restriction	Radiodetermination: radar, detection, movement and alert applications	
9 500 MHz to 9 975 MHz	No Restriction	Radiodetermination: radar, detection, movement and alert applications	
10,5 GHz to 10,6 GHz	No Restriction	Radiodetermination: radar, detection, movement and alert applications	
13,4 GHz to 14,0 GHz	No Restriction	Radiodetermination: radar, detection, movement and alert applications	
17,1 GHz to 17,3 GHz	DAA or equivalent techniques	Radiodetermination: GBSAR detecting and movement and alert applications	Limits shown in annex F shall apply
24,00 GHz to 24,25 GHz	No Restriction	Generic use and for Radiodetermination: radar, detection, movement and alert applications	

TEST RESULTS

For device working in frequency band 5725MHz to 5875MHz, no duty cycle restricted.

4.6. Adjacent channel selectivity

LIMIT

Receiver category	Limit
1	-30dBm+k
2	No limit
3	No limit

The correction factor, k, is as follows:

$$K=-20\log f-10\log BW$$

Where:

-f is the frequency in GHz;

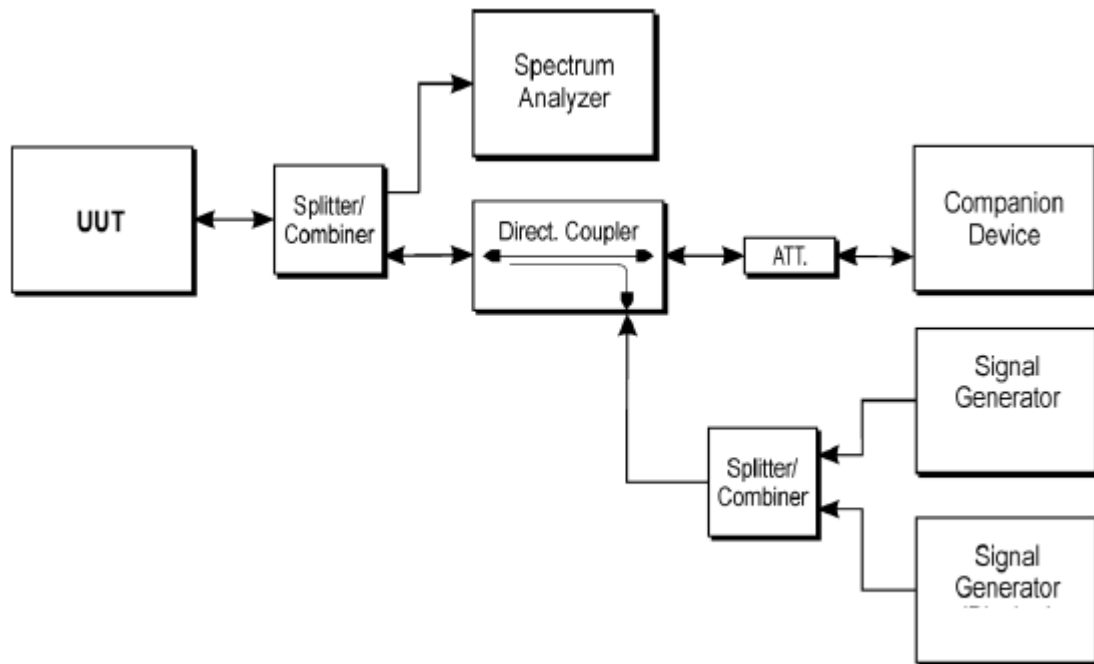
-BW is the channel bandwidth in MHz.

The factor k is limited within the following:

$$-40\text{ dB} < k < 0\text{ dB}$$

The manufacturer declare the BW is 20MHz, $K=-20\log(\text{Unwanted Signal Frequency})-13.01$.

TEST PROCEDURE



TEST CONFIGURATION

1.Please refer to ETSI EN 300 440 clause 5 for the test conditions.

2.Please refer to ETSI EN 300 440 clause 4.3.3.3 for the measurement method.

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TEST RESULTS

802.11a

Test Channel	BW(MHz)	Unwanted Signal Frequency(MHz)	Adjacent Frequency Signal Power Level (dBm)	Limit (dBm)	Result
153	20	5745	-41.64	-58.20	PASS
	20	5785	-45.92	-58.26	PASS
161	20	5785	-43.24	-58.26	PASS
	20	5825	-41.37	-58.32	PASS

802.11 n HT 20

Test Channel	BW(MHz)	Unwanted Signal Frequency(MHz)	Adjacent Frequency Signal Power Level (dBm)	Limit (dBm)	Result
153	20	5745	-45.56	-58.20	PASS
	20	5785	-43.82	-58.26	PASS
161	20	5785	-41.24	-58.26	PASS
	20	5825	-45.67	-58.32	PASS

802.11 n HT 40

Test Channel	BW(MHz)	Unwanted Signal Frequency(MHz)	Adjacent Frequency Signal Power Level (dBm)	Limit (dBm)	Result
155	40	5755	-43.48	-61.22	PASS
	40	5795	-44.34	-61.28	PASS

802.11 ac HT 20

Test Channel	BW(MHz)	Unwanted Signal Frequency(MHz)	Adjacent Frequency Signal Power Level (dBm)	Limit (dBm)	Result
153	20	5745	-46.71	-58.20	PASS
	20	5785	-39.74	-58.26	PASS
161	20	5785	-46.99	-58.26	PASS
	20	5825	-45.47	-58.32	PASS

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802.11 ac HT 40

Test Channel	BW(MHz)	Unwanted Signal Frequency(MHz)	Adjacent Frequency Signal Power Level (dBm)	Limit (dBm)	Result
155	40	5755	-46.35	-61.22	PASS
	40	5795	-44.17	-61.28	PASS

802.11 ac HT 80

Test Channel	BW(MHz)	Unwanted Signal Frequency(MHz)	Adjacent Frequency Signal Power Level (dBm)	Limit (dBm)	Result
155	80	5775	-46.65	-64.26	PASS

4.7. Blocking or desensitization

LIMIT

Receiver category	Limit
1	-30dBm+k
2	-45dBm+k
3	-60dBm+k

The correction factor, k, is as follows:

$$K=-20\log f-10\log BW$$

Where:

-f is the frequency in GHz;

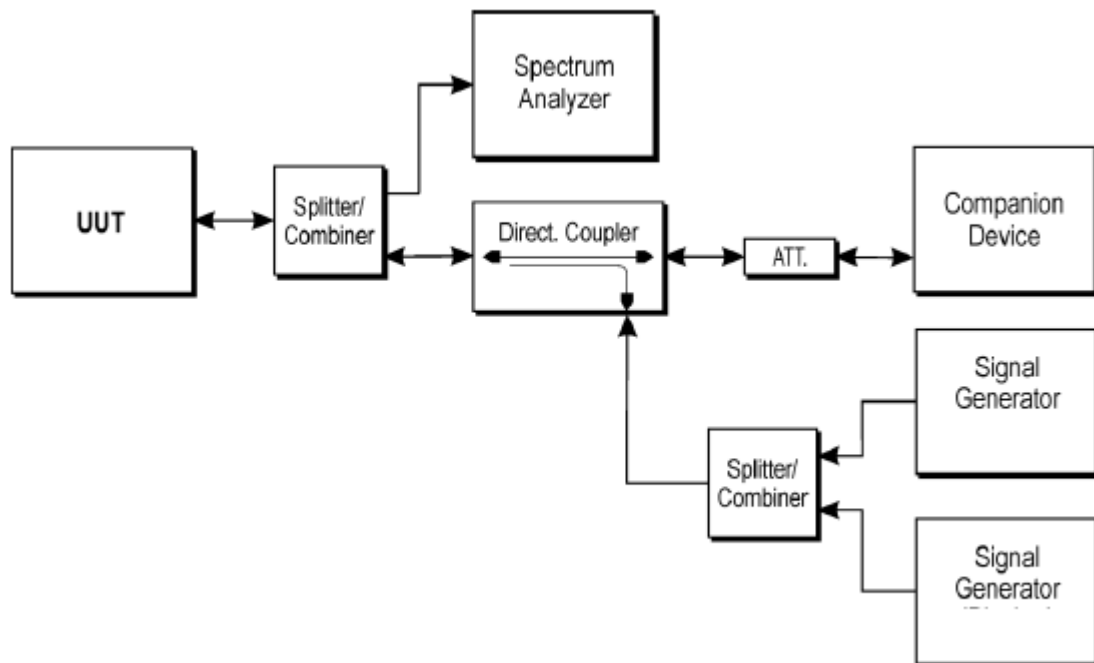
-BW is the channel bandwidth in MHz.

The factor k is limited within the following:

$$-40\text{ dB} < k < 0\text{ dB}$$

The manufacturer declare the BW is 20MHz, $K=-20\log f(\text{Blocking Signal Frequency})-13.01$.

TEST PROCEDURE



TEST CONFIGURATION

1.Please refer to ETSI EN 300 440 clause 5 for the test conditions.

2.Please refer to ETSI EN 300 440 clause 4.3.4.3 for the measurement method.

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TEST RESULTS

802.11a

Test Channel	BW(MHz)	Blocking Signal Frequency(MHz)	Blocking Signal Power Level (dBm)	Limit (dBm)	Result
149	20	5545(10 time channel bandwidth frequency offset)	-48.41	-72.88	PASS
		5345(20 time channel bandwidth frequency offset)	-49.17	-72.56	PASS
		4745(50 time channel bandwidth frequency offset)	-42.28	-71.53	PASS
165	20	6025(10 time channel bandwidth frequency offset)	-47.78	-73.60	PASS
		6225(20 time channel bandwidth frequency offset)	-46.61	-73.89	PASS
		6825(50 time channel bandwidth frequency offset)	-46.99	-74.69	PASS

802.11 n HT 20

Test Channel	BW(MHz)	Blocking Signal Frequency(MHz)	Blocking Signal Power Level (dBm)	Limit (dBm)	Result
149	20	5545(10 time channel bandwidth frequency offset)	-51.94	-72.88	PASS
		5345(20 time channel bandwidth frequency offset)	-44.72	-72.56	PASS
		4745(50 time channel bandwidth frequency offset)	-48.77	-71.53	PASS
165	20	6025(10 time channel bandwidth frequency offset)	-51.18	-73.60	PASS
		6225(20 time channel bandwidth frequency offset)	-49.11	-73.89	PASS
		6825(50 time channel bandwidth frequency offset)	-43.03	-74.69	PASS

802.11 n HT 40

Test Channel	BW(MHz)	Blocking Signal Frequency(MHz)	Blocking Signal Power Level (dBm)	Limit (dBm)	Result
151	40	5355(10 time channel bandwidth frequency offset)	-48.01	-75.59	PASS
		4955(20 time channel bandwidth frequency offset)	-50.31	-74.92	PASS
		3755(50 time channel bandwidth frequency offset)	-47.64	-73.51	PASS
159	40	6195(10 time channel bandwidth frequency offset)	-45.27	-76.86	PASS
		6595(20 time channel bandwidth frequency offset)	-48.39	-77.40	PASS
		7795(50 time channel bandwidth frequency offset)	-53.85	-77.66	PASS

802.11 ac HT 20

Test Channel	BW(MHz)	Blocking Signal Frequency(MHz)	Blocking Signal Power Level (dBm)	Limit (dBm)	Result
149	20	5545(10 time channel bandwidth frequency offset)	-46.38	-72.88	PASS
		5345(20 time channel bandwidth frequency offset)	-50.09	-72.56	PASS
		4745(50 time channel bandwidth frequency offset)	-51.15	-71.53	PASS
165	20	6025(10 time channel bandwidth frequency offset)	-48.31	-73.60	PASS
		6225(20 time channel bandwidth frequency offset)	-49.76	-73.89	PASS
		6825(50 time channel bandwidth frequency offset)	-51.55	-74.69	PASS

802.11 ac HT 40

Test Channel	BW(MHz)	Blocking Signal Frequency(MHz)	Blocking Signal Power Level (dBm)	Limit (dBm)	Result
151	40	5355(10 time channel bandwidth frequency offset)	-51.36	-75.59	PASS
		4955(20 time channel bandwidth frequency offset)	-51.00	-74.92	PASS
		3755(50 time channel bandwidth frequency offset)	-47.19	-72.51	PASS
159	40	6195(10 time channel bandwidth frequency offset)	-49.77	-76.86	PASS
		6595(20 time channel bandwidth frequency offset)	-43.22	-77.40	PASS
		7795(50 time channel bandwidth frequency offset)	-46.52	-77.66	PASS

802.11 ac HT 80

Test Channel	BW(MHz)	Blocking Signal Frequency(MHz)	Blocking Signal Power Level (dBm)	Limit (dBm)	Result
155	80	4975(10 time channel bandwidth frequency offset)	-52.06	-72.88	PASS
		3175(20 time channel bandwidth frequency offset)	-48.03	-72.56	PASS
		1775(50 time channel bandwidth frequency offset)	-43.93	-71.53	PASS
		6575(10 time channel bandwidth frequency offset)	-54.32	-73.60	PASS
		7375(20 time channel bandwidth frequency offset)	-49.99	-73.89	PASS
		9775(50 time channel bandwidth frequency offset)	-48.38	-74.69	PASS

4.8. Receiver Emissions

LIMIT

The power of any spurious emission shall not exceed 2 nW in the range 25 MHz to 1 GHz and shall not exceed 20 nW on frequencies above 1 GHz.

TEST CONFIGURATION

The same as described in section 4.4

TEST PROCEDURE

1. Please refer to ETSI EN 300 440 Sub-clause 5 for the test conditions.
2. Please refer to ETSI EN 300 440 Sub-clause 4.3.5.4 for the measurement method.

TEST RESULTS

Remark: We tested at 802.11a/802.11n HT20/802.11n HT40/802.11ac HT20/802.11ac HT40/802.11ac HT80 mode at the antenna single receiver mode and the Mimo mode, and recorded the worst case 802.11n HT 20 mode at the Mimo mode. The measurement frequency range is from 25MHz to the 10th harmonic of the fundamental frequency, not exceeding 40GHz. 18GHz-40GHz not recorded for no spurious point have a margin of less than 6 dB with respect to the limits.

802.11n HT 20, CH 149, Horizontal/Vertical

Below 1G

NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Ant. Pol.
1	152.46	-83.26	-57.00	-26.26	4.74	0.00	Vertical
2	330.54	-79.67	-57.00	-22.67	2.68	0.00	Vertical
3	416.05	-74.04	-57.00	-17.04	3.72	0.00	Vertical
4	434.57	-78.58	-57.00	-21.58	4.09	0.00	Vertical
5	599.35	-78.92	-57.00	-21.92	5.07	0.00	Vertical
6	744.92	-76.21	-57.00	-19.21	4.44	0.00	Vertical
7	182.00	-78.55	-57.00	-21.55	2.10	0.00	Horizontal
8	256.40	-78.08	-57.00	-21.08	3.31	0.00	Horizontal
9	339.24	-77.95	-57.00	-20.95	4.26	0.00	Horizontal
10	434.83	-72.35	-57.00	-15.35	3.65	0.00	Horizontal
11	521.39	-79.73	-57.00	-22.73	3.05	0.00	Horizontal
12	737.17	-77.59	-57.00	-20.59	3.75	0.00	Horizontal

NOTE: Other point of the measurements are below 20dB from the limit.

Above 1G

NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Ant. Pol.
1	1803.18	-75.68	-47.00	-28.68	8.00	0.00	Vertical
2	1809.77	-80.07	-47.00	-33.07	6.18	0.00	Vertical
3	3024.46	-77.02	-47.00	-30.02	5.65	0.00	Vertical
4	3683.35	-78.89	-47.00	-31.89	5.89	0.00	Vertical
5	4023.58	-83.55	-47.00	-36.55	5.94	0.00	Vertical
6	4449.71	-75.15	-47.00	-28.15	5.62	0.00	Vertical
7	2058.75	-79.95	-47.00	-32.95	8.17	0.00	Horizontal
8	3018.24	-84.76	-47.00	-37.76	7.64	0.00	Horizontal
9	3360.24	-78.56	-47.00	-31.56	5.49	0.00	Horizontal
10	3898.45	-76.66	-47.00	-29.66	6.81	0.00	Horizontal
11	4868.04	-78.64	-47.00	-31.64	7.54	0.00	Horizontal
12	5383.70	-74.42	-47.00	-27.42	9.18	0.00	Horizontal

NOTE: Other point of the measurements are below 20dB from the limit.

802.11n HT 20, CH 165, Horizontal/Vertical

Below 1G

NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Ant. Pol.
1	187.63	-77.58	-57.00	-20.58	4.97	0.00	Vertical
2	332.14	-76.01	-57.00	-19.01	3.79	0.00	Vertical
3	407.44	-75.27	-57.00	-18.27	3.67	0.00	Vertical
4	408.57	-76.33	-57.00	-19.33	3.82	0.00	Vertical
5	599.38	-76.04	-57.00	-19.04	4.72	0.00	Vertical
6	759.33	-78.36	-57.00	-21.36	4.17	0.00	Vertical
7	200.21	-79.90	-57.00	-22.90	5.25	0.00	Horizontal
8	266.41	-82.34	-57.00	-25.34	4.06	0.00	Horizontal
9	346.28	-78.19	-57.00	-21.19	3.05	0.00	Horizontal
10	425.63	-75.89	-57.00	-18.89	4.42	0.00	Horizontal
11	492.53	-78.52	-57.00	-21.52	2.56	0.00	Horizontal
12	754.36	-73.55	-57.00	-16.55	3.09	0.00	Horizontal

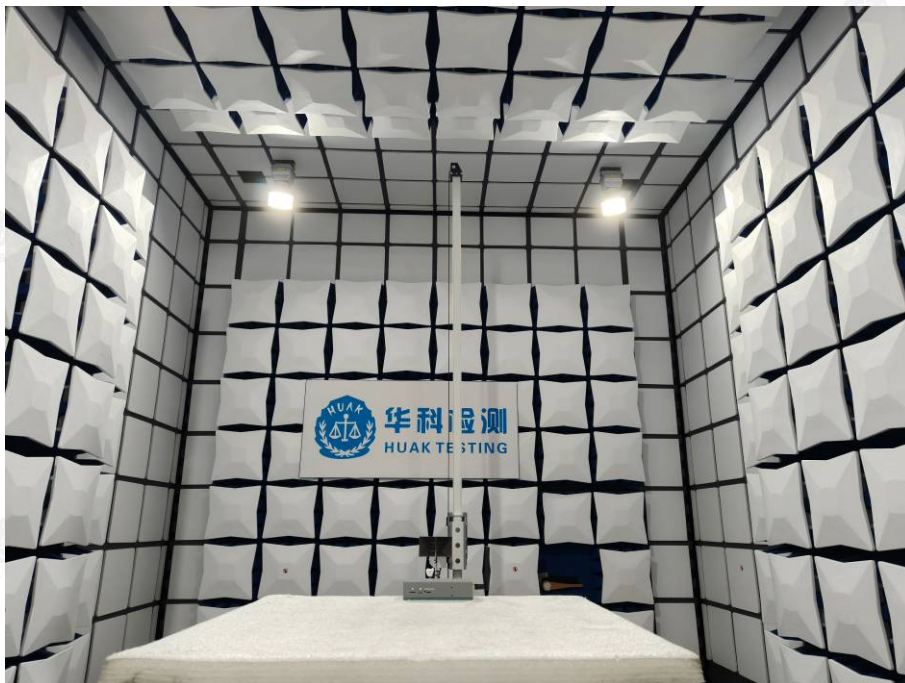
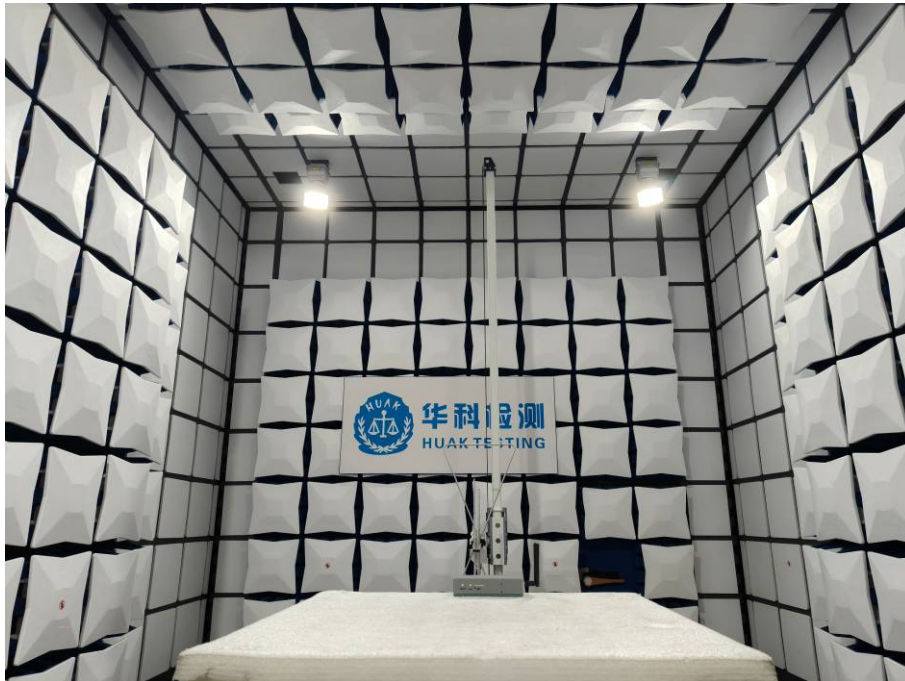
NOTE: Other point of the measurements are below 20dB from the limit.

Above 1G

NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Ant. Pol.
1	1807.94	-77.42	-47.00	-30.42	8.27	0.00	Vertical
2	2005.02	-79.01	-47.00	-32.01	8.88	0.00	Vertical
3	2885.58	-78.47	-47.00	-31.47	5.10	0.00	Vertical
4	3685.59	-77.89	-47.00	-30.89	7.27	0.00	Vertical
5	3869.62	-78.04	-47.00	-31.04	5.66	0.00	Vertical
6	4525.44	-69.17	-47.00	-22.17	7.53	0.00	Vertical
7	1720.05	-79.40	-47.00	-32.40	6.64	0.00	Horizontal
8	3169.07	-83.71	-47.00	-36.71	6.42	0.00	Horizontal
9	3505.88	-74.92	-47.00	-27.92	6.88	0.00	Horizontal
10	4071.44	-75.26	-47.00	-28.26	6.80	0.00	Horizontal
11	4977.63	-75.76	-47.00	-28.76	7.38	0.00	Horizontal
12	5458.66	-81.01	-47.00	-34.01	7.92	0.00	Horizontal

NOTE: Other point of the measurements are below 20dB from the limit.

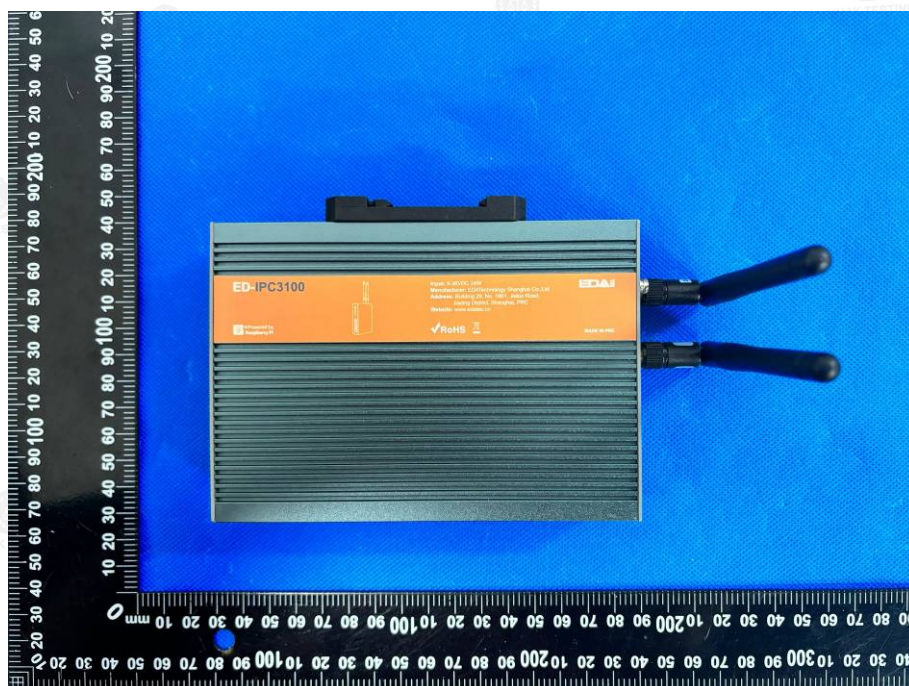
5. Test Setup Photos of the EUT



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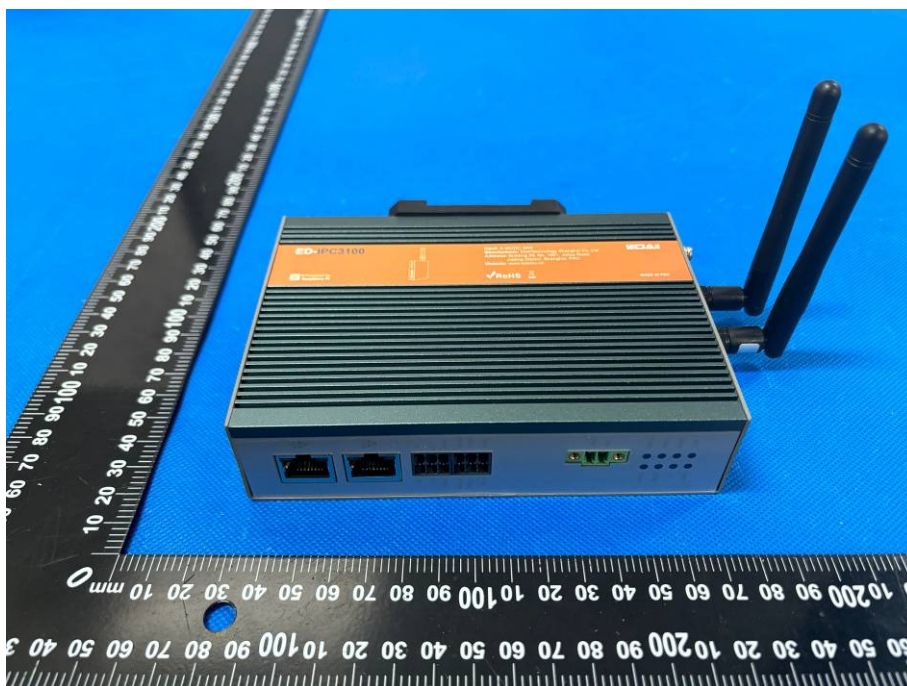
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6. External and Internal Photos of the EUT



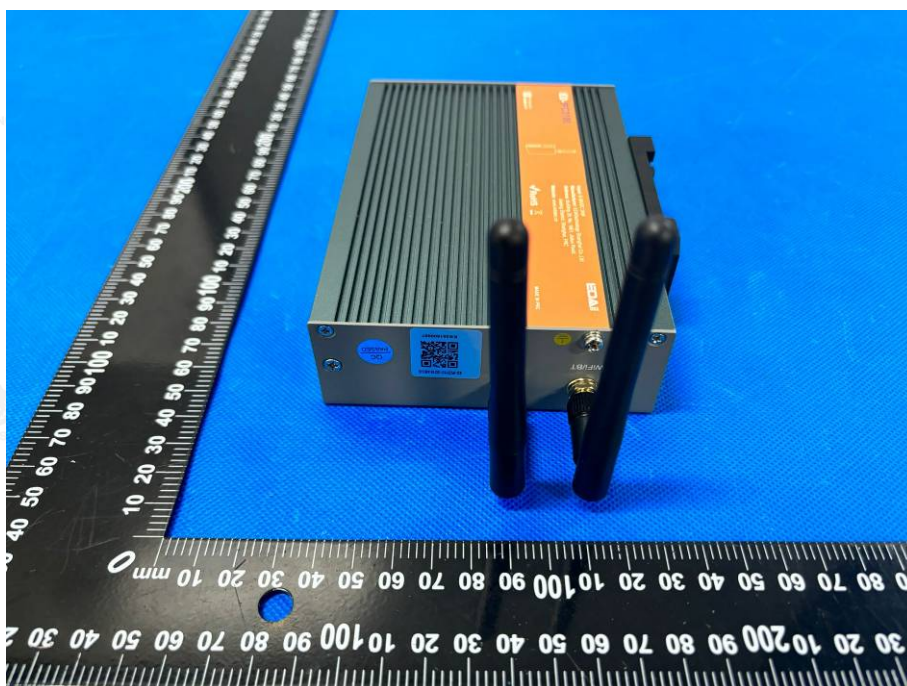
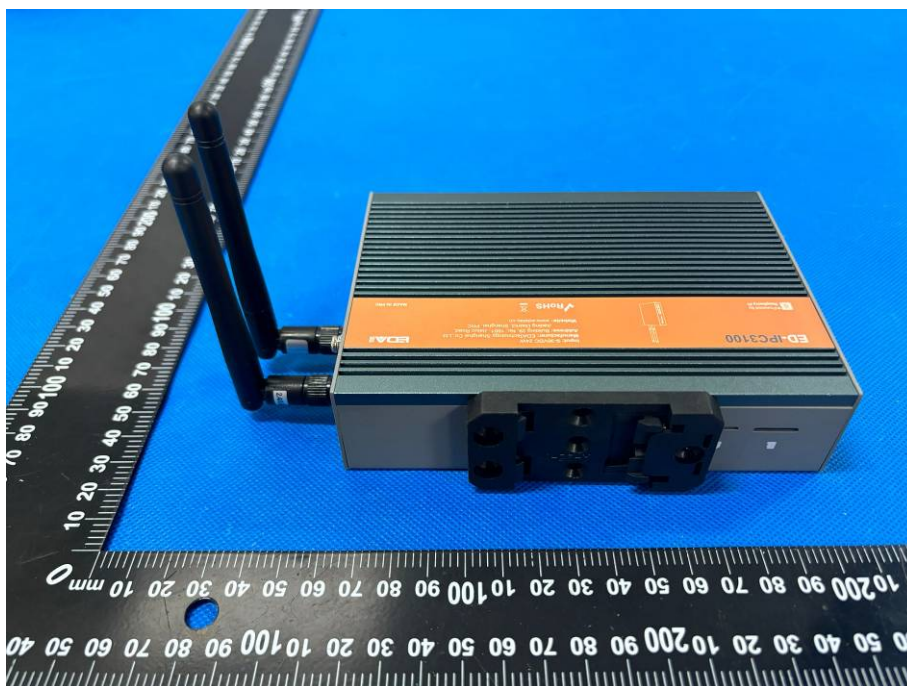
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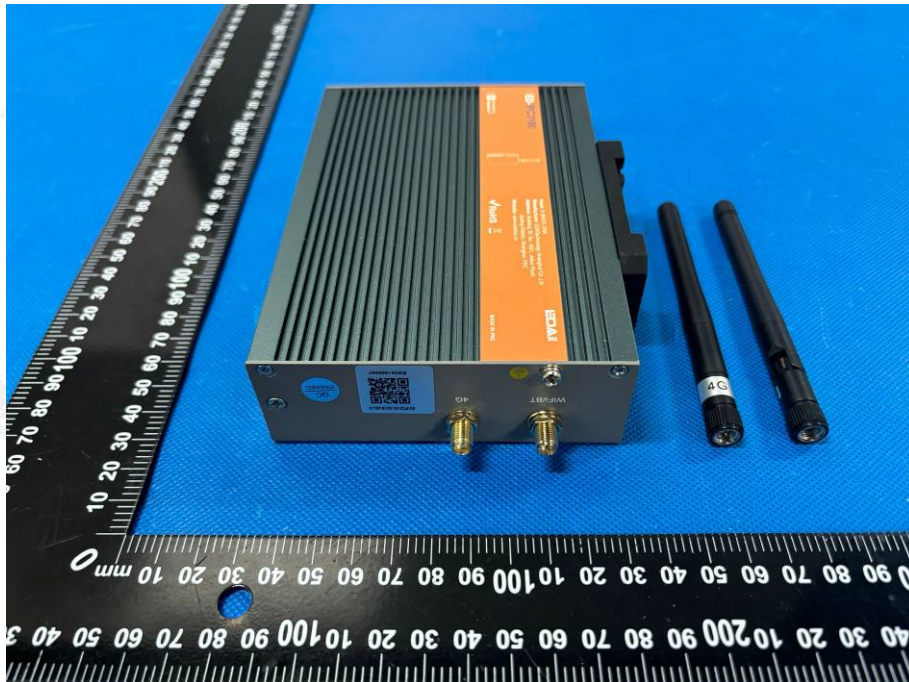
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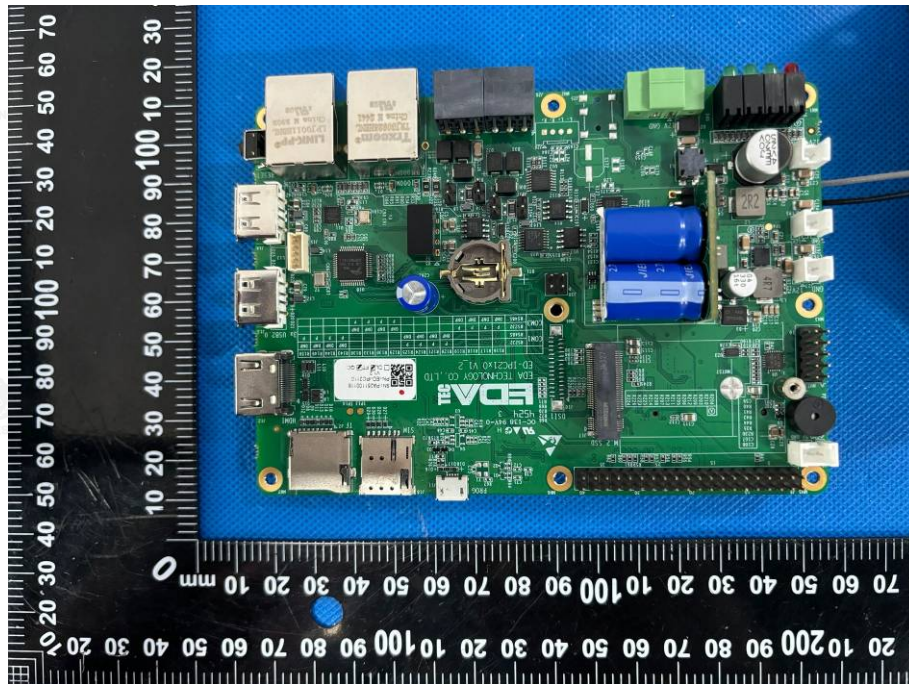
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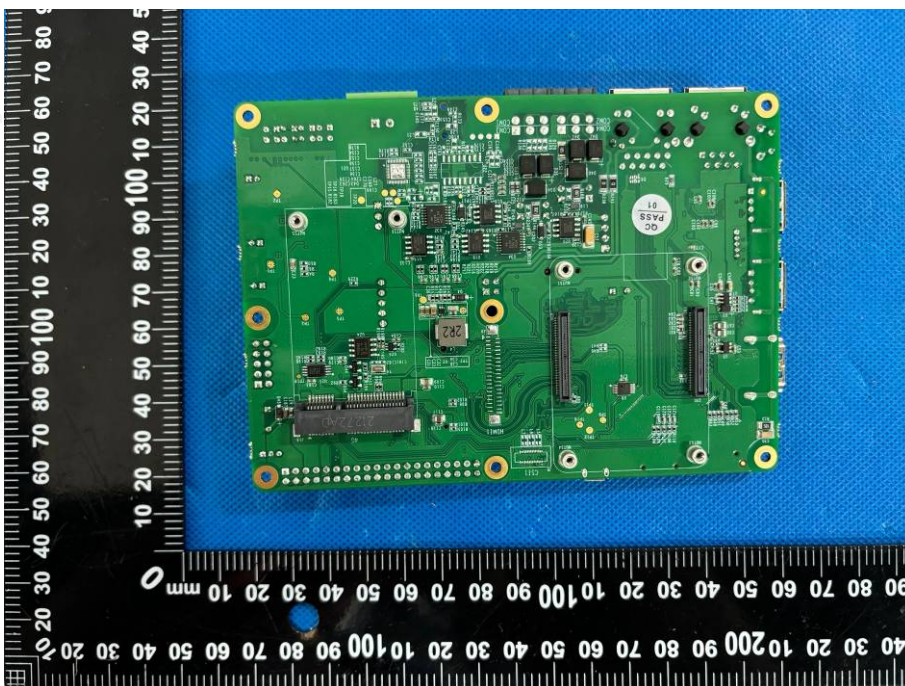
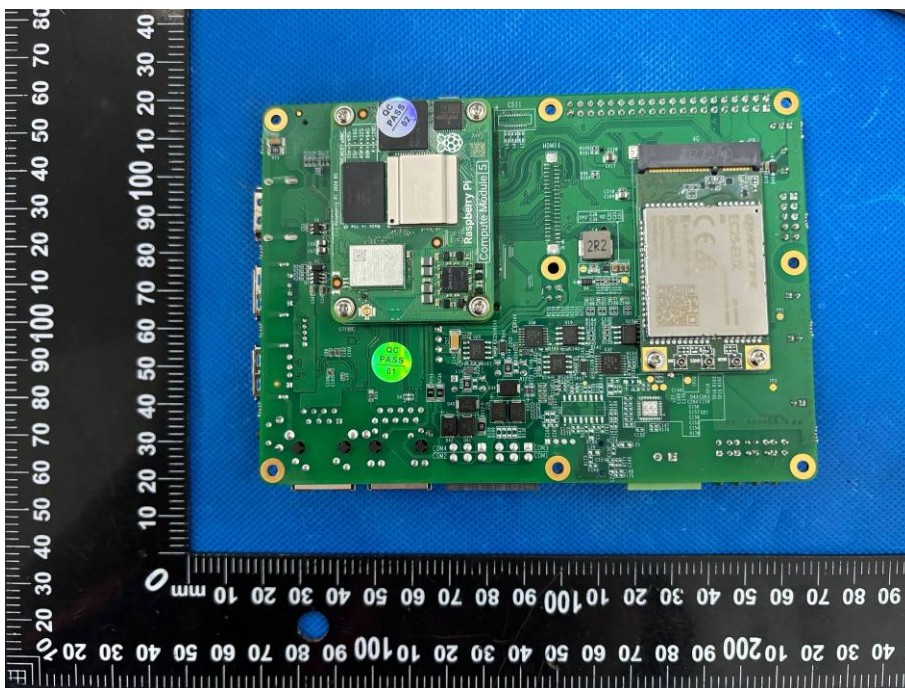
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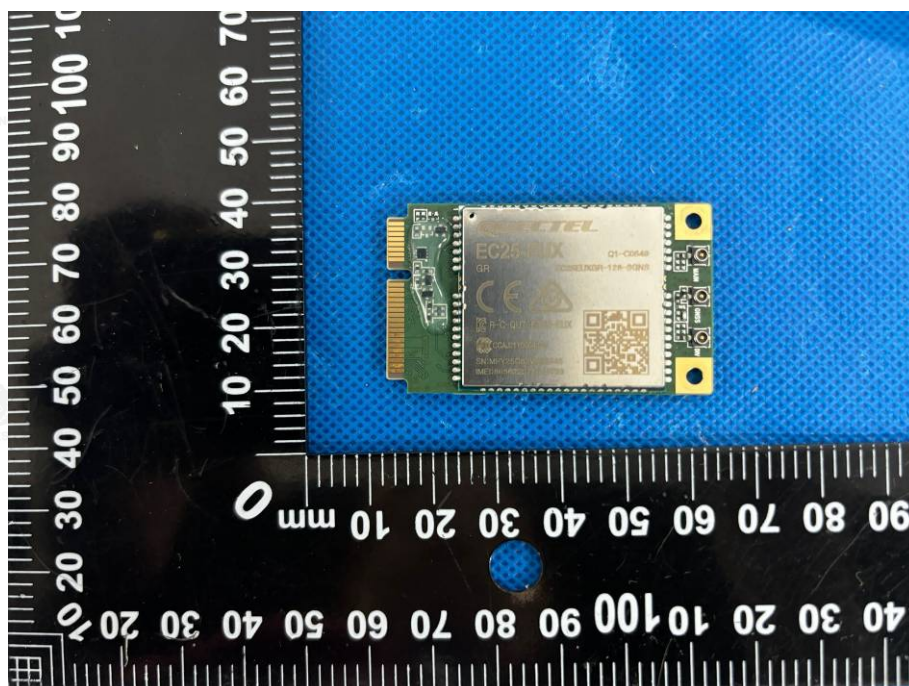
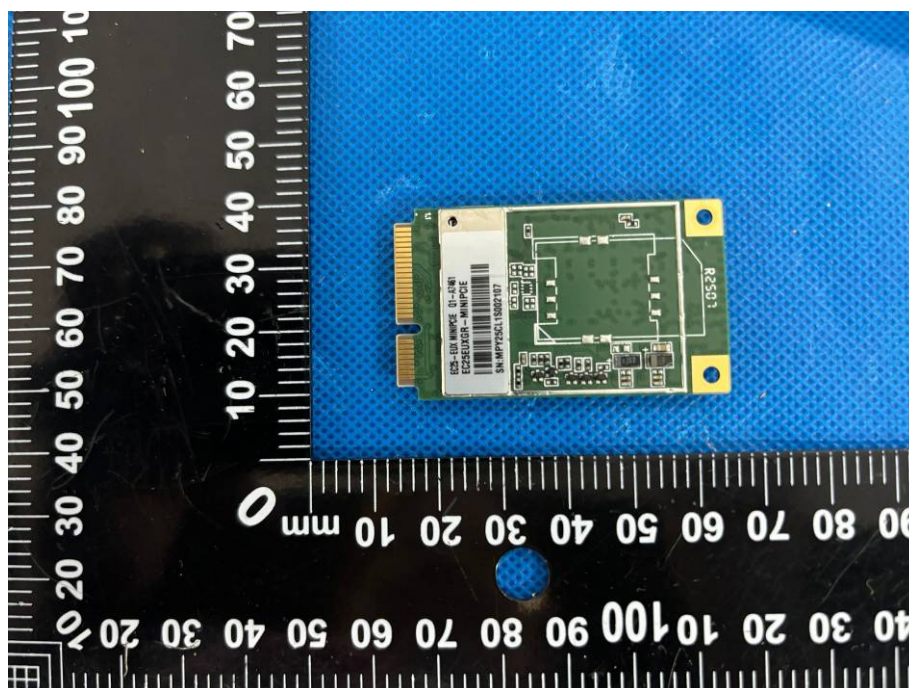
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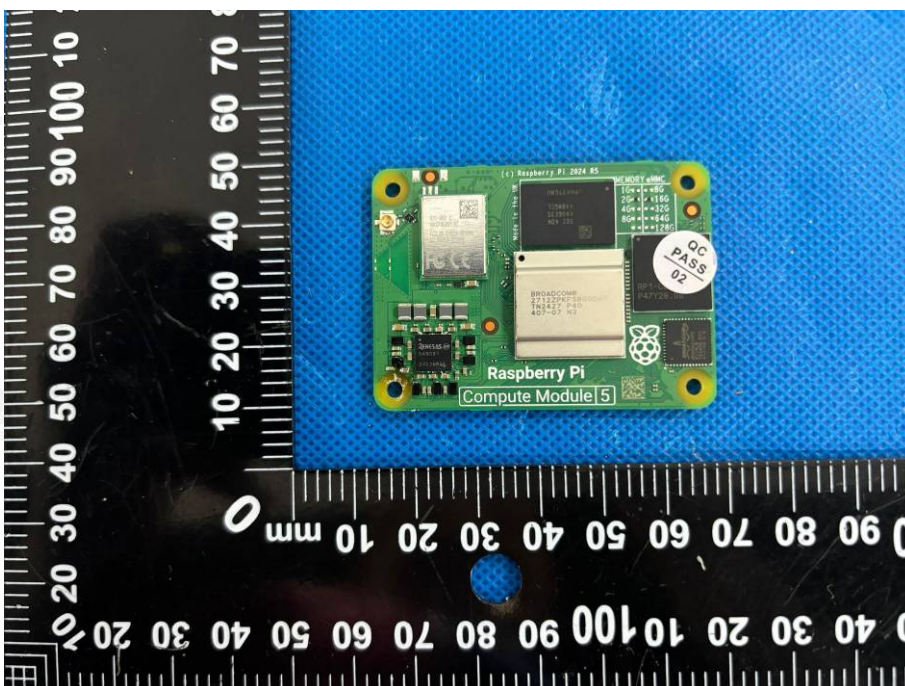
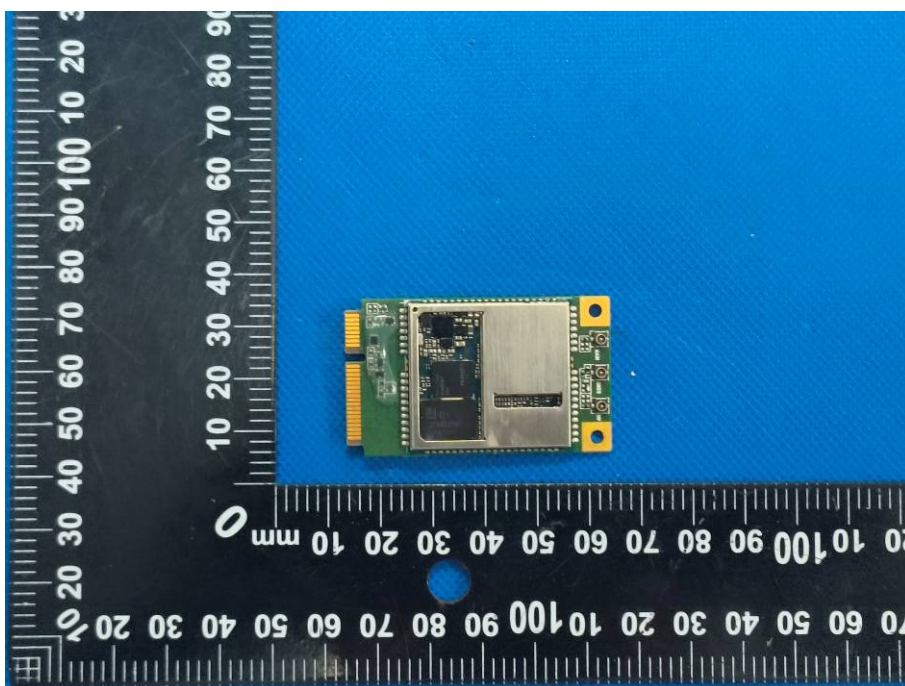




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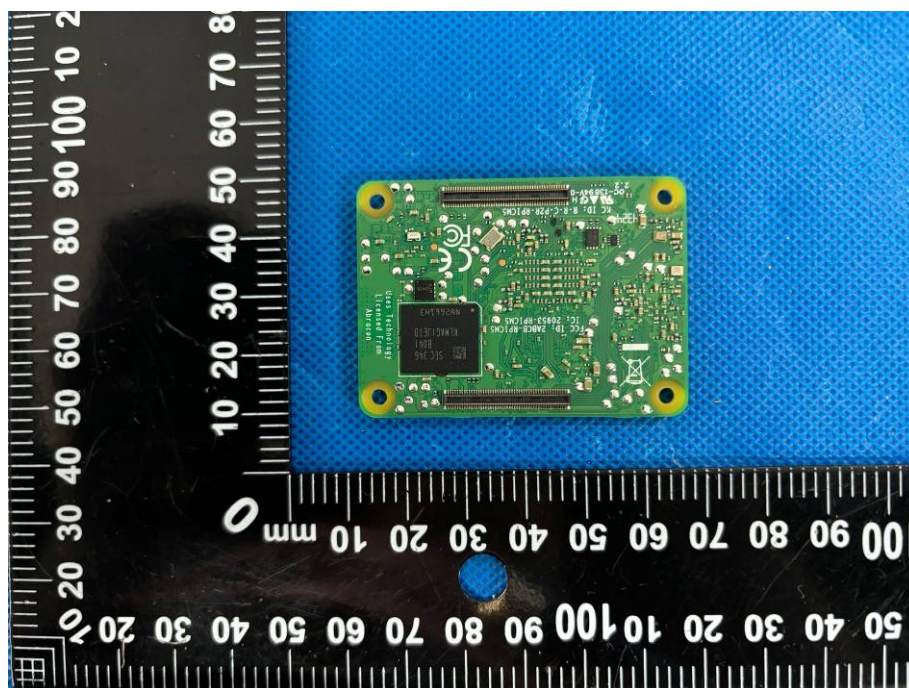
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.....End of Report.....