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TEST REPORT

Report No.:: CHTEW21090026 Report Verification:

Project No..... SHT2108055701EW

FCC ID.....:: 2AANYER8

Applicant's name: Beijing InHand Networks Technology Co., Ltd.

Room 501, floor 5, building 3, yard 18, ziyue road, chaoyang Address....:

district, Beijing, China

Test item description: **Edge Router**

Trade Mark inhand

ER805-NRQ3 Model/Type reference.....:

Listed Model(s): See remarks on page 3

FCC CFR Title 47 Part 15 Subpart C Section 15.247 Standard::

Date of receipt of test sample.....: Aug.26, 2021

Date of testing..... Aug.27, 2021-Sep.08, 2021

Date of issue.....: Sep.09, 2021

Result..... **PASS**

Compiled by

(Position+Printed name+Signature): File administrator Fanghui Zhu Janghwi Zhu Chengxiao Hamst-M

Supervised by

(Position+Printed name+Signature): Project Engineer Cheng Xiao

Approved by

(Position+Printed name+Signature): RF Manager Hans Hu

Testing Laboratory Name:: Shenzhen Huatongwei International Inspection Co., Ltd.

Address....: 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road,

Tianliao, Gongming, Shenzhen, China

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The test report merely correspond to the test sample.

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1. TEST STANDARDS AND REPORT VERSION

1.1. Test Standards

The tests were performed according to following standards:

- FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz
- ANSI C63.10:2013: American National Standard for Testing Unlicensed Wireless Devices
- KDB 558074 D01 15.247 Meas Guidance v05r02: Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating under Section 15.247 of The FCC Rules
- KDB662911 D01 Multiple Transmitter Output v02r01: Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)
- KDB662911 D02 MIMO with Cross-Polarized Antennas v01: MIMO with Cross-Polarized Antenna

1.2. Report version

Revision No.	Date of issue	Description
N/A	2021-09-09	Original

Remarks:

ER806-NRQ3, ER808-NRQ3, ER809-NRQ3, ER815-NRQ3, ER816-NRQ3, ER818-NRQ3, ER810-NRQ3, ER825-NRQ3, ER826-NRQ3, ER828-NRQ3, ER820-NRQ3, ER855-NRQ3, ER856-NRQ3, ER858-NRQ3, ER865-NRQ3, ER866-NRQ3, ER868-NRQ3, ER895-NRQ3, ER896-NRQ3, ER898-NRQ3

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2. TEST DESCRIPTION

Report clause	Test Items	Standard Requirement	Result
5.1	Antenna Requirement	15.203/15.247(c)	PASS
5.2	AC Conducted Emission	15.207	PASS
5.3	Peak Output Power	15.247(b)(3)	PASS
5.4	Power Spectral Density	15.247(e)	PASS
5.5	6dB Bandwidth	15.247(a)(2)	PASS
5.6	99% Occupied Bandwidth	-	PASS ^{*1}
5.7	Duty cycle	-	PASS ^{*1}
5.8	Conducted Band Edge and Spurious Emission	15.247(d)/15.205	PASS
5.9	Radiated Band Edge Emission	15.205/15.209	PASS
5.10	Radiated Spurious Emission	15.247(d)/15.205/15.209	PASS

Note:

The measurement uncertainty is not included in the test result.

 ^{*1:} No requirement on standard, only report these test data.

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3. **SUMMARY**

3.1. Client Information

Applicant:	Beijing InHand Networks Technology Co., Ltd.
Address:	Room 501, floor 5, building 3, yard 18, ziyue road, chaoyang district, Beijing,China
Manufacturer:	Beijing InHand Networks Technology Co., Ltd.
Address:	Room 501, floor 5, building 3, yard 18, ziyue road, chaoyang district, Beijing,China

3.2. Product Description

Name of EUT:	Edge Router
Trade Mark:	inhand
Model No.:	ER805-NRQ3
Listed Model(s):	See remarks on page 3
Power supply:	AC 120V for adapter
Adapter Information:	Model: KT241120150M2 Input: 100-240V, 50/60Hz, 0.8A Output: 12.0V, 1.5A, 18.0W Manufacture: SHENZHEN KUANTEN LIMITED
Hardware version:	V1.2
Software version:	V2.0

3.3. Radio Specification Description

Support type ^{*2} :	802.11b, 802.11g, 802.11n(HT20), 802.11n(HT40)
Modulation:	DSSS for 802.11b OFDM for 802.11g/802.11n(HT20)/802.11n(HT40)
Operation frequency:	2412MHz~2462MHz for 802.11b/802.11g/802.11n(HT20) 2422MHz~2452MHz for 802.11n(HT40)
Channel number:	11 for 802.11b/802.11g/802.11n(HT20) 7 for 802.11n(HT40)
Channel separation:	5MHz
Antenna type:	External antenna
Antenna gain:	Antenna 0: 3dBi Antenna 1: 3dBi

Note:

^{*2:} only show the RF function associated with this report.

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3.4. Testing Laboratory Information

Laboratory Name	Shenzhen Huatongwei International Inspection Co., Ltd.		
Laboratory Location	1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China		
Connect information:	Phone: 86-755-26715499 E-mail: cs@szhtw.com.cn http://www.szhtw.com.cn		
Qualifications	Type Accreditation Numbe		
Qualifications	FCC	762235	

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4. TEST CONFIGURATION

4.1. Test frequency list

According to section 15.31(m), regards to the operating frequency range over 10 MHz, must select three channels which were tested. The Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, please see the below blue front.

802.11b/802.11g/802.11n(HT20)		802.11n(HT40)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	03	2422
02	2417	04	2427
· :	· :	. :	. :
06	2437	06	2437
· :	· :	. :	. :
10	2457	08	2447
11	2462	09	2452

4.2. Descriptions of Test mode

Preliminary tests were performed in different data rates, final test modes are considering the modulation and worse data rates as below table.

Modulation	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(HT20)	MCS0
802.11n(HT40)	MCS0

4.3. Test mode

For RF test items

The engineering test program was provided and enabled to make EUT continuous transmit.

For AC power line conducted emissions:

The EUT was set to transmission.

For Radiated spurious emissions test item:

The engineering test program was provided and enabled to make EUT continuous transmit.

The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data Recorded in the report.

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4.4. Support unit used in test configuration and system

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

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

Wheth	Whether support unit is used?				
No					
Item	Equipement	Trade Name	Model No.	FCC ID	Power cord
1					
2					

4.5. Testing environmental condition

Туре	Requirement	Actual
Temperature:	15~35°C	25°C
Relative Humidity:	25~75%	50%
Air Pressure:	860~1060mbar	1000mbar

4.6. Measurement uncertainty

Test Item	Measurement Uncertainty
AC Conducted Emission (150kHz~30MHz)	3.02 dB
Radiated Emission (30MHz~1000MHz	4.90 dB
Radiated Emissions (1GHz~25GHz)	4.96 dB
Peak Output Power	0.51 dB
Power Spectral Density	0.51 dB
Conducted Spurious Emission	0.51 dB
6dB Bandwidth	70 Hz

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

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4.7. Equipment Used during the Test

•	Conducted E	mission					
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Shielded Room	Albatross projects	HTWE0114	N/A	N/A	2018/09/28	2023/09/27
•	EMI Test Receiver	R&S	HTWE0111	ESCI	101247	2020/10/19	2021/10/18
•	Artificial Mains	SCHWARZBECK	HTWE0113	NNLK 8121	573	2020/10/15	2021/10/14
•	Pulse Limiter	R&S	HTWE0033	ESH3-Z2	100499	2020/10/15	2021/10/14
•	RF Connection Cable	HUBER+SUHNER	HTWE0113-02	ENVIROFLE X_142	EF-NM- BNCM-2M	2020/10/15	2021/10/14
•	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A

•	Radiated emi	ssion-6th test sit	te				
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Semi-Anechoic Chamber	Albatross projects	HTWE0127	SAC-3m-02	C11121	2018/09/30	2021/09/29
•	EMI Test Receiver	R&S	HTWE0099	ESCI	100900	2020/10/19	2021/10/18
•	Loop Antenna	R&S	HTWE0170	HFH2-Z2	100020	2021/04/06	2022/04/05
•	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0123	VULB9163	538	2021/04/06	2022/04/05
•	Pre-Amplifer	SCHWARZBECK	HTWE0295	BBV 9742	N/A	2020/11/13	2021/11/12
•	RF Connection Cable	HUBER+SUHNER	HTWE0062-01	N/A	N/A	2021/02/26	2022/02/25
•	RF Connection Cable	HUBER+SUHNER	HTWE0062-02	SUCOFLEX104	501184/4	2021/02/26	2022/02/25
•	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A

•	Radiated em	ission-7th test s	ite				
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Semi-Anechoic Chamber	Albatross projects	HTWE0122	SAC-3m-01	N/A	2018/09/27	2021/09/26
•	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2020/10/20	2021/10/19
•	Horn Antenna	SCHWARZBECK	HTWE0126	9120D	1011	2020/04/01	2023/03/31
•	Broadband Horn Antenna	SCHWARZBECK	HTWE0103	BBHA9170	BBHA9170472	2018/10/11	2021/10/11
•	Pre-amplifier	CD	HTWE0071	PAP-0102	12004	2020/11/13	2021/11/12
•	Broadband Pre- amplifier	SCHWARZBECK	HTWE0201	BBV 9718	9718-248	2021/03/05	2022/03/04
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-01	6m 18GHz S Serisa	N/A	2021/02/26	2022/02/25
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-02	6m 3GHz RG Serisa	N/A	2021/02/26	2022/02/25
•	RF Connection Cable	HUBER+SUHNER	HTWE0119-05	6m 3GHz RG Serisa	N/A	2021/02/26	2022/02/25
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-04	6m 3GHz RG Serisa	N/A	2021/02/26	2022/02/25
•	RF Connection Cable	HUBER+SUHNER	HTWE0121-01	6m 18GHz S Serisa	N/A	2021/02/26	2022/02/25
•	Test Software	Audix	N/A	E3	N/A	N/A	N/A

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•	RF Conducted Method					
Used	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Signal and spectrum Analyzer	R&S	FSV40	100048	2020/10/19	2021/10/18
•	Spectrum Analyzer	Agilent	N9020A	MY50510187	2020/10/19	2021/10/18
•	Power Meter	Anritsu	ML249A	N/A	2020/10/19	2021/10/18
0	Radio communication tester	R&S	CMW500	137688-Lv	2020/10/19	2021/10/18

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5. TEST CONDITIONS AND RESULTS

5.1. Antenna Requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C Section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responseble party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

TEST RESULT

The product has two external antennas, both two are 3dBi antenna gain, and the product is a CDD device with the same gain, according to KDB 662911 D01 section F, the Directional gain=Gant + Array gain

For power spectral density measurements on all devices,

Array gain=10log(Nant/Nss) dB,

So the Directional gain=3+10log(2/1)=6.01dBi

power spectral density limit=8dm/3KHz- (6.01-6) dB =7.99dbm/3KHz

For power measurements on IEEE 802.11 devices,

Array gain=0 dB for Nant≤4

So the Directional gain=3+0=3dBi which is less than 6 dBi requirement, please refer to the below antenna photo.



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5.2. AC Conducted Emission

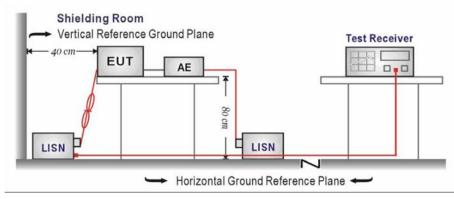
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207

Fraguency range (MHz)	Limit (dBuV)						
Frequency range (MHz)	Quasi-peak	Average					
0.15-0.5	66 to 56*	56 to 46*					
0.5-5	56	46					
5-30	60	50					

^{*} Decreases with the logarithm of the frequency.

TEST CONFIGURATION



TEST PROCEDURE

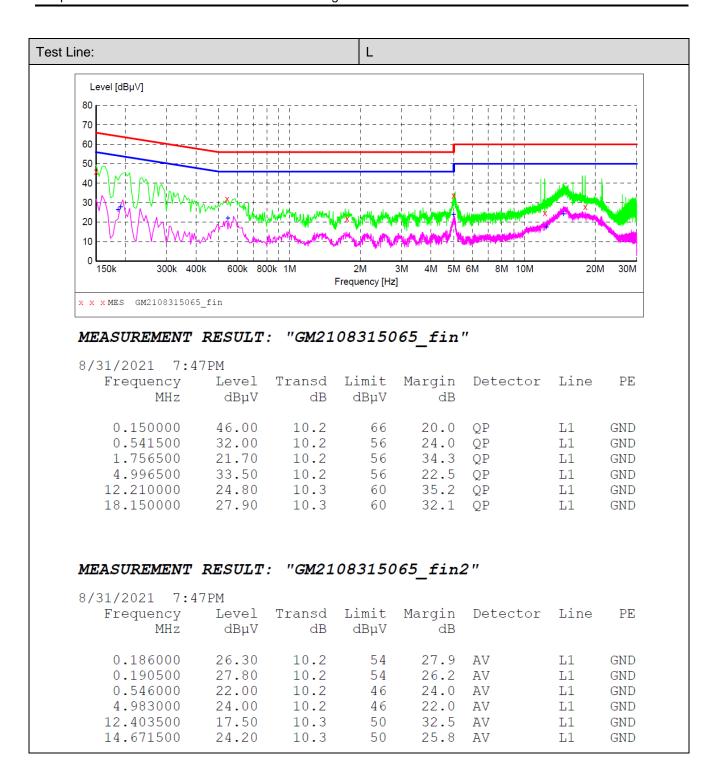
- 1. The EUT was setup according to ANSI C63.10 requirements.
- 2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
- The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment.
- 4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
- 5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
- 6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
- 7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
- 8. During the above scans, the emissions were maximized by cable manipulation.

TEST MODE:

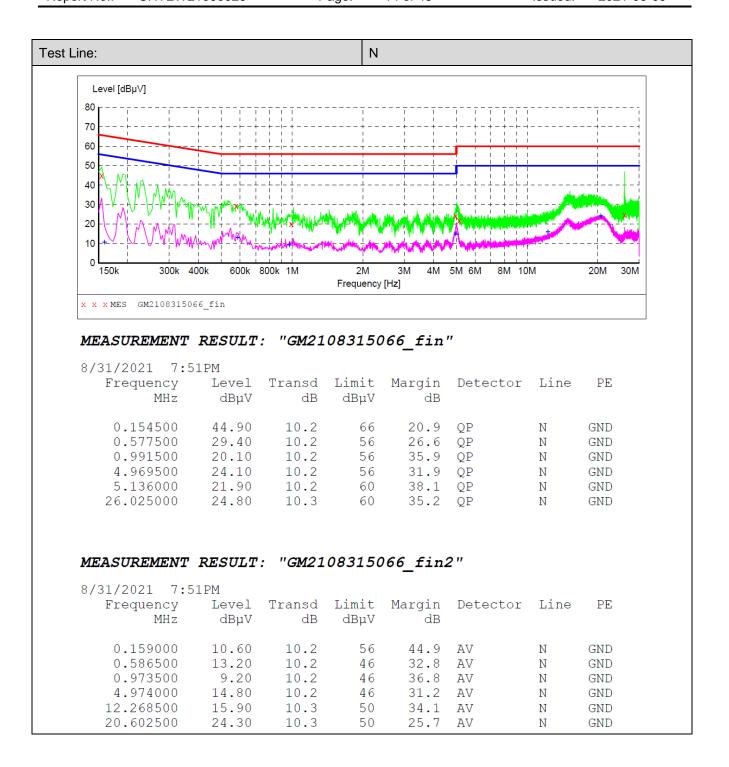
Please refer to the clause 4.2

TEST RESULT

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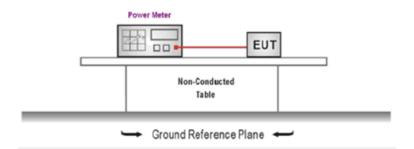
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5.3. Peak Output Power

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3): 30dBm

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was tested according to ANSI C63.10 and KDB 558074 D01 requirements.
- 2. The maximum peak conducted output power may be measured using a broadband peak RF power meter.
- 3. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.
- 4. Record the measurement data.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

TEST Data

Please refer to appendix A on the appendix report

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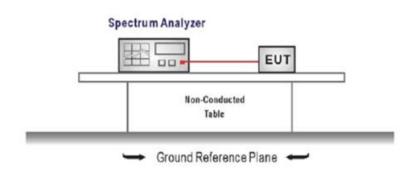
5.4. Power Spectral Density

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e):

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 7.99dBm in any 3 kHz band during any time interval of continuous transmission.

TEST CONFIGURATION



TEST PROCEDURE

- 1. Connect the antenna port(s) to the spectrum analyzer input,
- 2. Configure the spectrum analyzer as shown below:

Center frequency=DTS channel center frequency

Span =1.5 times the DTS bandwidth

RBW = 3 kHz ≤ RBW ≤ 100 kHz, VBW ≥ 3 × RBW

Sweep time = auto couple

Detector = peak

Trace mode = max hold

- 3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter wave form on the spectrum analyzer.
- 4. Use the peak marker function to determine the maximum amplitude level within the RBW.
- 5. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

TEST Data

Please refer to appendix B on the appendix report

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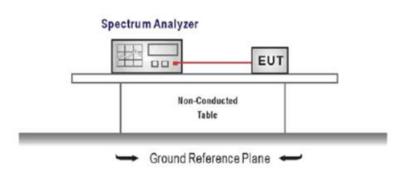
5.5. 6dB bandwidth

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2):

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

TEST CONFIGURATION



TEST PROCEDURE

- 1. Connect the antenna port(s) to the spectrum analyzer input.
- 2. Configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).

Center Frequency =DTS channel center frequency

Span=2 x DTS bandwidth

RBW = 100 kHz, VBW ≥ 3 × RBW

Sweep time= auto couple

Detector = Peak

Trace mode = max hold

- 3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
- 4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission, and record the pertinent measurements.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

TEST Data

Please refer to appendix C on the appendix report

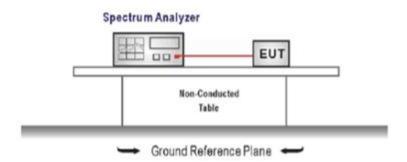
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5.6. 99% Occupied Bandwidth

<u>LIMIT</u>

N/A

TEST CONFIGURATION



TEST PROCEDURE

- 1. Connect the antenna port(s) to the spectrum analyzer input.
- Configure the spectrum analyzer as shown below (enter all losses between the transmitter output andthe spectrum analyzer).

Center Frequency =channel center frequency

Span≥1.5 x OBW

. RBW = 1%~5%OBW

VBW ≥ 3 × RBW

Sweep time= auto couple

Detector = Peak

Trace mode = max hold

Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

TEST Data

Please refer to appendix D on the appendix report

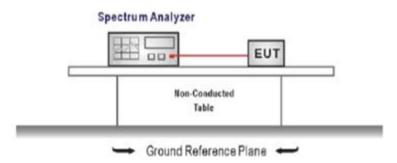
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5.7. Duty Cycle

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

- 1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously
- Use the following spectrum analyzer settings:
 - Span=zero span, Frequency=centered channel, RBW= 1 MHz, VBW ≥ RBW
 - Sweep=as necessary to capture the entire dwell time,
 - Detector function = peak, Trigger mode
- 4. Measure and record the duty cycle data

TEST MODE:

Please refer to the clause 4.2

TEST Data

Please refer to appendix E on the appendix report

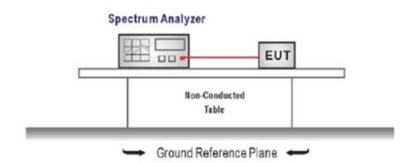
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5.8. Conducted Band edge and Spurious Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section15.247 (d):In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

TEST CONFIGURATION



TEST PROCEDURE

- 1. Connect the antenna port(s) to the spectrum analyzer input.
- 2. Establish a reference level by using the following procedure

Center frequency=DTS channel center frequency

The span = 1.5 times the DTS bandwidth.

RBW = 100 kHz, VBW ≥ 3 x RBW

Detector = peak, Sweep time = auto couple, Trace mode = max hold

Allow trace to fully stabilize

Use the peak marker function to determine the maximum PSD level

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

3. Emission level measurement

Set the center frequency and span to encompass frequency range to be measured

RBW = 100 kHz, VBW ≥ 3 x RBW

Detector = peak, Sweep time = auto couple, Trace mode = max hold

Allow trace to fully stabilize

Use the peak marker function to determine the maximum amplitude level.

- 4. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
- Ensure that the amplitude of all unwanted emission outside of the authorized frequency band excluding restricted frequency bands) are attenuated by at least the minimum requirements specified (at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz). Report the three highest emission relative to the limit.

TEST MODE:

Please refer to the clause 4.2

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TEST	RESUL	Γ
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 $oxed{oxed}$ Passed $oxed{oxed}$ Not Applicable

TEST Data

Please refer to appendix F on the appendix report

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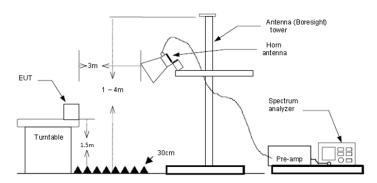
5.9. Radiated Band edge Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, Radiated Emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the Radiated Emissions limits specified in §15.209(a) (see §15.205(c)).

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was setup and tested according to ANSI C63.10.
- 2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT waspositioned such that the distance from antenna to the EUT was 3 meters.
- 4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. Thisis repeated for both horizontal and vertical polarization of the antenna. In order to find themaximum emission, all of the interface cables were manipulated according to ANSI C63.10 on radiated measurement.
- Use the following spectrum analyzer settings:
 - a) Span shall wide enough to fully capture the emission being measured
 - b) Set RBW=100kHz for <1GHz, VBW=3*RBW, Sweep time=auto, Detector=peak, Trace=max hold
 - Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement

For average measurement:

- VBW=10Hz, When duty cycle is no less than 98 percent
- VBW≥1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation, so refer to this clasue 5.6 duty cycle.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

Note:

- Level= Reading + Factor; Factor = Antenna Factor + Cable Loss- Preamp Factor
- 2) Over Limit = Level- Limit
- 3) Average measurement was not performed if peak level is lower than average limit(54 dBuV/m).
- 4) Pre-scan all modulation mode and antenna. 802.11b/g/n in the report only displays the worst antenna information. The worst antenna is antenna 1.

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Гуре	802.11b		Test	Test channel			CH01 Pola			Horizontal		
	Mar	k Frequency	/ Reading	Antenna dB	Cable dB	Pream; dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
	1	2310.00	38.32	27.96	5.43	37.56	20.00	54.15	74.00	-19.85	Peak	
	2	2390.01	39.06	27.72	5.53	37.45	20.00	54.86	74.00	-19.14	Peak	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
	1	2310.00	31.91	27.96	5.43	37.56	20.00	47.74	54.00	-6.26	Average	
	2	2390.01	31.06	27.72	5.53	37.45	20.00	46.86	54.00	-7.14	Average	

Туре		802.11	lb	Test	channe	el	CH01		Polar	rity	Vertical	
	1	Frequency MHz 2310.00 2390.01		Antenna dB 27.96 27.72	Cable dB 5.43 5.53	dB . 37.56	dB			limit -20.15	Remark Peak Peak	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	p Aux dB	Level dBuV/m	Limit dBuV/m	Over 1 limit	Remark	
	1 2	2310.00 2390.01	31.72 31.57	27.96 27.72		37.56 37.45	20.00 20.00		5 54.00 7 54.00	-6.45 -6.63	Average Average	

Туре	802.11b			Test	Test channel			CH11		ity	Horizontal	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
	1	2483.49	38.20	27.43	5.64	37.26	20.00	54.01	74.00	-19.99	Peak	
	2	2500.00	38.87	27.40	5.66	37.26	20.00	54.67	74.00	-19.33	Peak	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
	1	2483.49	30.95	27.43	5.64	37.26	20.00	46.76	54.00	-7.24	Average	
	2	2500.00	30.66	27.40	5.66	37.26	20.00	46.46	54.00	-7.54	Average	

Туре	802.11b			Test	Test channel			CH11		ity	Vertical
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.49	38.56	27.43	5.64	37.26	20.00	54.37	74.00	-19.63	Peak
	2	2500.00	38.48	27.40	5.66	37.26	20.00	54.28	74.00	-19.72	Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.49	32.79	27.43	5.64	37.26	20.00	48.60	54.00	-5.40	Average
	2	2500.00	31.47	27.40	5.66	37.26	20.00	47.27	54.00	-6.73	Average

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Туре	802.11g			Test	Test channel				Pola	rity	Horizontal	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	e Preamp	Aux dB	Level dBuV/m	Limit dBuV/r	Over limit	Remark	
	1	2310.00	39.69	27.96	5.43	37.56	20.00	55.52	74.00	-18.48	Peak	
	2	2390.01	38.57	27.72	5.53	37.45	20.00	54.37	74.00	-19.63	Peak	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
	1	2310.00	27.12	27.96	5.43	37.56	20.00	42.95	54.00	-11.05	Average	
	2	2390.01	26.88	27.72	5.53	37.45	20.00	42.68	54.00	-11.32	Average	

Туре	802.11g			Test	Test channel				Pola	arity	,	Vertical
	Mark	Frequency	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
	1	2310.00	39.73	27.96	5.43	37.56	20.00	55.56	74.00	-18.44	Peak	
	2	2390.01	38.15	27.72	5.53	37.45	20.00	53.95	74.00	-20.05	Peak	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
	1	2310.00	26.99	27.96	5.43	37.56	20.00	42.82	54.00	-11.18	Avera	ige
	2	2390.01	26.86	27.72	5.53	37.45	20.00	42.66	54.00	-11.34	Avera	ige

Туре		802.11	g	Test	chann	el	CH11		Pola	rity	Horizont	al
	Mark	Frequency	Reading dBuV/m	Antenna dB	Cable dB	e Preamp	Aux dB	Level dBuV/m	Limit dBuV/n	Over limit	Remark	
	1	2483.49	38.17	27.43	5.64	37.26	20.00	53.98	74.00	-20.02	Peak	
	2	2500.00	38.59	27.40	5.66	37.26	20.00	54.39	74.00	-19.61	Peak	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
	1	2483.49	26.64	27.43	5.64	37.26	20.00	42.45	54.00	-11.55	Average	
	2	2500.00	26.60	27.40	5.66	37.26	20.00	42.40	54.00	-11.60	Average	

Туре		802.11	g	Test	channe	el (CH11		Polari	ty	Vertical
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.49	38.09	27.43	5.64	37.26	20.00	53.90	74.00	-20.10	Peak
	2	2500.00	38.62	27.40	5.66	37.26	20.00	54.42	74.00	-19.58	Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.49	26.60	27.43	5.64	37.26	20.00	42.41	54.00	-11.59	Average
	2	2500.00	26.75	27.40	5.66	37.26	20.00	42.55	54.00	-11.45	Average

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Туре		802.1	1n(HT20)	Test	chanı	nel	CH01		Pol	arity		Horizontal
Ma 1		Frequency MHz 2310.00	Reading dBuV/m 38.49	Antenna dB 27.96	dB	Preamp dB 37.56	Aux dB 20.00	Level dBuV/m 54.32	Limit dBuV/m 74.00	Over limit -19.68	Remark Peak	
2		2390.01	38.84	27.72	5.53	37.45	20.00	54.64	74.00	-19.36	Peak	
Ma	rk	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1		2310.00	32.06	27.96	5.43	37.56	20.00	47.89	54.00	-6.11	Avera	ige
2	2	2390.01	31.73	27.72	5.53	37.45	20.00	47.53	54.00	-6.47	Avera	ge

Туре		802.11	n(HT20)	Test	chanr	iel	CH01		Pola	arity		Vertical
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	<
	1	2310.00	38.91	27.96	5.43	37.56	20.00	54.74	74.00	-19.26	Peak	
	2	2390.01	39.24	27.72	5.53	37.45	20.00	55.04	74.00	-18.96	Peak	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
	1	2310.00	32.50	27.96	5.43	37.56	20.00	48.33	54.00	-5.67	Avera	ige
	2	2390.01	31.46	27.72	5.53	37.45	20.00	47.26	54.00	-6.74	Avera	ge

Туре		802.1	1n(HT20)	Test	chan	inel	CH11		Pola	arity		Horizontal
	Mar	k Frequency MHz	Reading	Antenna dB	a Cab	le Pream dB	np Aux dB	Level dBuV/m	Limit dBuV/r		100000000000000000000000000000000000000	rk
	1	2483.49	39.40	27.43	5.6	4 37.26	20.00	55.21	74.00	-18.79	Pea	k
	2	2500.00	38.16	27.40	5.6	6 37.26	20.00	53.96	74.00	-20.04	Pea	k
	Mark		Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
	1	2483.49	31.62	27.43	5.64	37.26	20.00	47.43	54.00	-6.57	Averag	e
	2	2500.00	31.15	27.40	5.66	37.26	20.00	46.95	54.00	-7.05	Averag	e

Туре		802.1	1n(HT20)	Test	chann	el	CH11		Polar	ity	Vertical
	Mark	k Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	e Pream dB	p Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.49	38.77	27.43	5.64	37.26	20.00	54.58	74.00	-19.42	Peak
	2	2500.00	38.25	27.40	5.66	37.26	20.00	54.05	74.00	-19.95	Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Rema <mark>rk</mark>
	1	2483.49	32.10	27.43	5.64	37.26	20.00	47.91	54.00	-6.09	Average
	2	2500.00	31.46	27.40	5.66	37.26	20.00	47.26	54.00	-6.74	Average

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Туре		802.1	1n(HT40)) Test	chani	nel	CH03		Polari	ty	Horizontal
	Mark	Frequency MHz	Reading	Antenna dB	Cabl	le Pream	np Aux dB	Level dBuV/r		Over limit	Remark
	1	2310.00	38.07	27.96	5.43	NO. 100 CO. 10		A STATE OF THE PARTY OF THE PAR	74.00	-20.10	Peak
	2	2389.99	39.11	27.72	5.53	37.45	20.00	54.91	74.00	-19.09	Peak
	Mark	Frequency	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux	Level dBuV/m		ver Rem	ark
	1	2310.00	27.07	27.96	5.43	37.56	20.00	42.90	54.00 -11	.10 Av	erage
	2	2389.99	26.85	27.72	5.53	37.45	20.00	42.65	54.00 -11	.35 Av	erage

Туре		802.11	In(HT40)	Test	chann	el	CH03		Pola	rity		Vertical
	1 2	Frequency MHz 310.00 389.99		Antenna dB 27.96 27.72	Cable dB 5.43 5.53	dB 37.56	dB 20.00	dBuV/m 54.28	Limit dBuV/m 74.00 74.00	Over limit -19.72 -20.55	Rema Pea Pea	ak
	Mark 1 2	Frequency MHz 2310.00 2389.99	Reading dBuV/m 26.88 26.77	Antenna dB 27.96 27.72	dB 5.43	Preamp dB 37.56 37.45	Aux dB 20.00 20.00	42.71	Limit dBuV/m 54.00 54.00		Aver:	age

Туре		802.1	1n(HT40)	Test	chanr	nel	CH09		Pola	rity	Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	e Pream dB	Aux dB	Level dBuV/m	Limit dBuV/r		
	1	2483.50	38.51	27.43	5.64	37.26	20.00	54.32	74.00	-19.68	Peak
	2	2500.00	38.71	27.40	5.66	37.26	20.00	54.51	74.00	-19.49	Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.50	26.79	27.43	5.64	37.26	20.00	42.60	54.00 -	11.40	Average
	2	2500.00	26.66	27.40	5.66	37.26	20.00	42.46	54.00 -	11.54	Average

Туре		802.1	1n(HT40)	Test	chanr	iel	CH09		Pola	arity	Vertical
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1 :	2483.50	39.17	27.43	5.64	37.26	20.00	54.98	74.00	-19.02	Peak
	2 :	2500.00	38.11	27.40	5.66	37.26	20.00	53.91	74.00	-20.09	Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.50	26.64	27.43	5.64	37.26	20.00	42.45	54.00	-11.55	Average
	2	2500.00	26.62	27.40	5.66	37.26	20.00	42.42	54.00	-11.58	Average

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5.10. Radiated Spurious Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

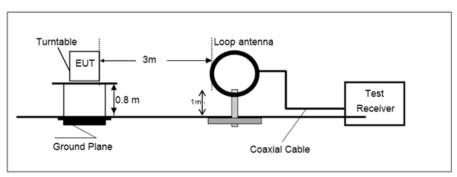
Frequency	Limit (dBuV/m)	Value
0.009 MHz ~0.49 MHz	2400/F(kHz) @300m	Quasi-peak
0.49 MHz ~ 1.705 MHz	24000/F(kHz) @30m	Quasi-peak
1.705 MHz ~30 MHz	30 @30m	Quasi-peak

Note: Limit dBuV/m @3m = Limit dBuV/m @300m + 40*log(300/3) = Limit dBuV/m @300m +80, Limit dBuV/m @3m = Limit dBuV/m @30m +40*log(30/3) = Limit dBuV/m @30m + 40.

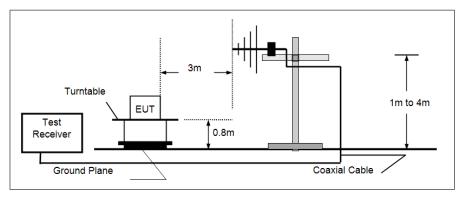
Frequency	Limit (dBuV/m @3m)	Value
30MHz~88MHz	40.00	Quasi-peak
88MHz~216MHz	43.50	Quasi-peak
216MHz~960MHz	46.00	Quasi-peak
960MHz~1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
Above IGHZ	74.00	Peak

TEST CONFIGURATION

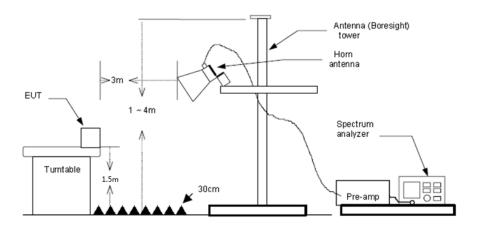
→ 9 kHz ~ 30 MHz



> 30 MHz ~ 1 GHz



Above 1 GHz



TEST PROCEDURE

- The EUT was setup and tested according to ANSI C63.10.
- 2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
- 4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
- 5. Set to the maximum power setting and enable the EUT transmit continuously.
- 6. Use the following spectrum analyzer settings

using the quasi-peak detector and reported.

- a) Span shall wide enough to fully capture the emission being measured;
- b) Below 1 GHz:
 - RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold; If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated
- c) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement

For average measurement:

- VBW=10Hz, When duty cycle is no less than 98 percent
- VBW≥1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation, so refer to this clasue 5.6 duty cycle.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

Note:

- 1) Level= Reading + Factor/Transd; Factor/Transd = Antenna Factor+ Cable Loss- Preamp Factor
- 2) Over Limit = Level- Limit
- 3) Average measurement was not performed if peak level is lower than average limit(54 dBuV/m) for above 1GHz.

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TEST DATA FOR 9 kHz ~ 30 MHz

The EUT was pre-scanned this frequency band, found the radiated level 20dB lower than the limit, so don't show data on this report.

TEST DATA FOR 30 MHz ~ 1000 MHz

Have pre-scan all test channel, found CH06 of 802.11B which it was worst case, so only show the worst case's data on this report.

TEST DATA FOR 1 GHz ~ 25 GHz

The EUT was pre-scanned all modulation mode and antenna. 802.11b/g/n in the report only displays the worst antenna information. The worst antenna is antenna 1.

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Polarization: Horizontal Level [dBµV/m] 80 60 50 40 30 20 10 30M 40M 50M 60M 70M 100M 200M 300M 400M 500M 600M M008 1G Frequency [Hz] x x x MES GM2109016127_red MEASUREMENT RESULT: "GM2109016127 red" 9/1/2021 9:21PM Level Transd Limit Margin Det. Height Azimuth Polarization Frequency MHz dBµV/m dB dBµV/m dB 139.00 HORIZONTAL 300.0 100.0 111.480000 26.70 -11.1 43.5 16.8 QP 27.00 -10.3 214.300000 43.5 16.5 QP 220.00 HORIZONTAL 305.480000 38.70 -7.1 46.0 7.3 QP 100.0 185.00 HORIZONTAL 319.060000 38.00 -6.6 46.0 8.0 QΡ 100.0 356.00 HORIZONTAL 0.1 577.080000 33.80 46.0 12.2 QP 300.0 328.00 HORIZONTAL 908.820000 7.3 37.30 46.0 8.7 QP 100.0 245.00 HORIZONTAL Polarization: Vertical Level [dBµV/m] 80 70 60 50 40 30 20 10 0 30M 40M 50M 60M 70M 100M 200M 300M 400M 500M 600M M008 Frequency [Hz] x x x MES GM2109016126 red MEASUREMENT RESULT: "GM2109016126 red" 9/1/2021 9:17PM Level Transd Limit Margin Det. Height Azimuth Polarization Frequency dBµV/m dB dBµV/m dB MHz cm deg -12.4 78.00 VERTICAL 30.000000 34.40 40.0 5.6 QP 100.0 159.980000 27.40 -13.4 43.5 16.1 QP 100.0 282.00 VERTICAL 10.1 QP 11.0 QP 305.480000 35.90 -7.1 46.0 100.0 204.00 VERTICAL 100.0 35.00 -6.6 165.00 VERTICAL 319.060000 46.0 35.10 0.0 36.00 8.1 10.9 QP 100.0 254.00 VERTICAL 18.0 QP 100.0 331.00 VERTICAL 575.140000 46.0 974.780000 54.0

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TEST DATA FOR 1 GHz ~ 25 GHz

Туре		802.11b)	Test channe	el	CH01		Polarity		Horizontal
	Mark 1 2 3 4	Frequency MHz 3216.84 5009.43 8063.40 10860.83	Reading dBuV/m 40.70 36.48 33.61 34.35	Antenna dB 28.83 31.96 37.20 40.48	Cable dB 6.48 8.83 11.08 12.51	Preamp dB 36.90 35.27 33.32 36.78	Level dBuV/m 39.11 42.00 48.57 50.56		Over limi -34.8 -32.0 -25.4 -23.4	t 19 Peak 10 Peak 13 Peak
Туре		802.11b)	Test channe	el	CH01		Polarity		Vertical
	Mark 1 2 3	Frequency MHz 3216.84 3844.28 6251.26 9322.50	Reading dBuV/m 41.64 41.83 34.80 35.29		Cable dB 6.48 7.20 9.72 11.82	Preamp dB 36.90 36.89 34.59 36.40	Level dBuV/m 40.05 41.92 42.83 49.96		Over limi -33.9 -32.0 -31.1	t 95 Peak 98 Peak 97 Peak
T							49.50		24.0	
Туре	Mark 1	802.11b Frequency MHz 4421.99			Cable dB 8.10	Preamp dB 36.15	Level dBuV/m 39.76		Over limi	.t
	2 3 4	5086.52 8083.96 10888.51	37.24 33.76 34.73	32.20 37.20 40.57	8.92 11.15 12.52	35.46 33.32 36.76	42.90 48.79 51.06	74.00 74.00 74.00	-31.1 -25.2 -22.9	1 Peak
Туре		802.11b)	Test channe	el	CH06		Polarity		Vertical
	Mark 1 2 3 4	Frequency MHz 3662.78 4983.99 8002.06 10916.26	y Reading dBuV/r 43.02 37.29 33.50 33.99	NAME OF TAXABLE PARTY OF TAXABLE PARTY.	Cable dB 6.98 8.80 10.91 12.52	Preamp dB 37.02 35.22 33.31 36.74	Leve: dBuV/r 42.38 42.64 48.20 50.37		Over limi -31.6 -31.3 -25.8	it 52 Peak 86 Peak
Туре		802.11b)	Test channe	el	CH11		Polarity		Horizontal
	Mai 1 2 3 4	rk Frequency MHz 3018.50 4014.29 7981.72 9759.59	dBuV/m 39.90 2 39.79 2 34.48 3	ntenna Cable dB dB 8.74 6.22 9.93 7.39 7.03 10.89 9.60 11.62	Preamp dB 37.46 36.31 33.31 36.29	dB di 0.00 37 0.00 40 0.00 49	BuV/m di .40 74 .80 74 .09 74	imit Over BuV/m limit 4.00 -36.60 4.00 -33.20 4.00 -24.91 4.00 -24.06	Remar Peak Peak Peak Peak	
Туре		802.11b)	Test channe	el	CH11		Polarity		Vertical
	Man 1 2 3 4	MHz 3672.11	dBuV/m 43.18 29 41.15 29 37.08 31	.78 7.20	dB 37.03 36.89 35.31	dB dE 0.00 42. 0.00 41. 0.00 42.	3uV/m dE .53 74 .24 74 .76 74	imit Over 3uV/m limit 4.00 -31.47 4.00 -32.76 4.00 -31.24 4.00 -24.00	Remar Peak Peak Peak Peak	

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Туре		802.11g		Test channe	el	CH01		Polarity	Horizontal
	Mark	Frequency MHz	Reading dBuV/r	g Antenna m dB	Cable dB	e Preamp dB	Leve] dBuV/n		
	1	3216.84	40.56	28.83	6.48	36.90	38.97	74.00 -35.	
	2	5732.97	35.74	31.90	9.56	34.85	42.35	74.00 -31.	
	3	8042.90	33.38	37.19	11.02	33.31	48.28		72 Peak
	4	9611.66	35.47	39.25	11.93	37.01	49.64		36 Peak
Туре		802.11g		Test channe	el	CH01		Polarity	Vertical
	Mark	Frequency MHz	Reading dBuV/n		Cable dB	e Preamp dB	Leve: dBuV/r		er Remark mit
	1	3662.78	43.07	29.40	6.98	37.02	42.43	•	.57 Peak
	2	3844.28	41.98	29.78	7.20	36.89	42.07		.93 Peak
	3	7921.00	34.29	36.84	10.83	33.33	48.63	74.00 -25	.37 Peak
	4	9685.35	34.95	39.54	11.79	36.65	49.63		.37 Peak
Туре		802.11g		Test channe	el	CH06		Polarity	Horizontal
	Mark	Frequency MHz	Reading dBuV/m		Cable dB	Preamp dB	Level dBuV/m		
	1	3844.28	40.63	29.78	7.20	36.89	40.72		28 Peak
	2	4971.32	36.97	31.67	8.79	35.21	42.22		78 Peak
	3	8022.46	33.60	37.14	10.95	33.31	48.38		62 Peak
	4	10427.37	35.35	39.93	12.46	37.21	50.53		47 Peak
Туре		802.11g		Test channe	el	CH06		Polarity	Vertical
Туре	Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit Over	Remark
Type		Frequency MHz	dBuV/m	Antenna dB	Cable dB	Preamp dB	dBuV/m	Limit Over dBuV/m lim	Remark it
Type	1	Frequency MHz 3249.76	dBuV/m 42.20	Antenna dB 28.70	Cable dB 6.52	Preamp dB 36.87	dBuV/m 40.55	Limit Over dBuV/m lim: 74.00 -33.4	r Remark it 45 Peak
Type	1 2	Frequency MHz 3249.76 5112.49	dBuV/m 42.20 35.67	Antenna dB 28.70 32.15	Cable dB 6.52 8.95	Preamp dB 36.87 35.47	dBuV/m 40.55 41.30	Limit Over dBuV/m lim: 74.00 -33.4 74.00 -32.7	Remark it 45 Peak 70 Peak
Туре	1	Frequency MHz 3249.76	dBuV/m 42.20	Antenna dB 28.70	Cable dB 6.52	Preamp dB 36.87	dBuV/m 40.55	Limit Over dBuV/m lim: 74.00 -33.4 74.00 -32.7 74.00 -25.4	r Remark it 45 Peak
Type	1 2 3	Frequency MHz 3249.76 5112.49 8083.96	dBuV/m 42.20 35.67 33.56	Antenna dB 28.70 32.15 37.20	Cable dB 6.52 8.95 11.15 11.68	Preamp dB 36.87 35.47 33.32	dBuV/m 40.55 41.30 48.59	Limit Over dBuV/m lim: 74.00 -33.4 74.00 -32.7 74.00 -25.4	Remark it 45 Peak 70 Peak 41 Peak
	1 2 3 4	Frequency MHz 3249.76 5112.49 8083.96 9734.78	dBuV/m 42.20 35.67 33.56 35.08	Antenna dB 28.70 32.15 37.20 39.60 Test channe	Cable dB 6.52 8.95 11.15 11.68	Preamp dB 36.87 35.47 33.32 36.41	dBuV/m 40.55 41.30 48.59 49.95	Limit Over dBuV/m lim: 74.00 -33.4 74.00 -32.1 74.00 -25.4 74.00 -24.6	Remark it 15 Peak 70 Peak 11 Peak 25 Peak Horizontal
	1 2 3	Frequency MHz 3249.76 5112.49 8083.96 9734.78 802.11g Frequency	dBuV/m 42.20 35.67 33.56 35.08	Antenna dB 28.70 32.15 37.20 39.60 Test channe	Cable dB 6.52 8.95 11.15 11.68	Preamp dB 36.87 35.47 33.32 36.41 CH11	dBuV/m 40.55 41.30 48.59 49.95	Limit Over dBuV/m limit 74.00 -33.4 74.00 -32.1 74.00 -25.4 74.00 -24.6 Polarity	Remark it Feak Peak Peak Peak Feak Horizontal Remark
	1 2 3 4 Mark	Frequency MHz 3249.76 5112.49 8083.96 9734.78 802.11g Frequency MHz	dBuV/m 42.20 35.67 33.56 35.08 Reading	Antenna dB 28.70 32.15 37.20 39.60 Test channe Antenna dB	Cable dB 6.52 8.95 11.15 11.68 el Cable dB	Preamp dB 36.87 35.47 33.32 36.41 CH11 Preamp dB	dBuV/m 40.55 41.30 48.59 49.95 Level dBuV/m	Limit Over dBuV/m lim: 74.00 -33.4 74.00 -32.5 74.00 -25.4 74.00 -24.0 Polarity Limit Over dBuV/m lim dBuV/m lim	Remark it Feak Peak Peak Peak Horizontal Remark
	1 2 3 4 Mark	Frequency MHz 3249.76 5112.49 8083.96 9734.78 802.11g Frequency MHz 3283.02	dBuV/m 42.20 35.67 33.56 35.08 Reading dBuV/m 39.57	Antenna dB 28.70 32.15 37.20 39.60 Test channe dB 28.57	Cable dB 6.52 8.95 11.15 11.68 el Cable dB 6.56	Preamp dB 36.87 35.47 33.32 36.41 CH11 Preamp dB 36.84	dBuV/m 40.55 41.30 48.59 49.95 Level dBuV/m 37.86	Limit Over dBuV/m lim: 74.00 -33.4 74.00 -25.4 74.00 -24.6 Polarity Limit Over dBuV/m lim: 74.00 -36.	Remark it Feak Peak Peak Feak Horizontal Remark it Remark
	1 2 3 4 Mark	Frequency MHz 3249.76 5112.49 8083.96 9734.78 802.11g Frequency MHz 3283.02 4760.78	dBuV/m 42.20 35.67 33.56 35.08 Reading dBuV/m 39.57 37.22	Antenna dB 28.70 32.15 37.20 39.60 Test channe Antenna dB 28.57 31.40	Cable dB 6.52 8.95 11.15 11.68 el Cable dB 6.56 8.34	Preamp dB 36.87 35.47 33.32 36.41 CH11 Preamp dB 36.84 35.47	dBuV/m 40.55 41.30 48.59 49.95 Level dBuV/m 37.86 41.49	Limit Over dBuV/m lim: 74.00 -33.4 74.00 -25.4 74.00 -24.6 Polarity Limit Over dBuV/m lim: 74.00 -36. 74.00 -32.	Remark it Feak Peak Peak Feak Horizontal Remark it Peak Peak
	1 2 3 4 Mark	Frequency MHz 3249.76 5112.49 8083.96 9734.78 802.11g Frequency MHz 3283.02	dBuV/m 42.20 35.67 33.56 35.08 Reading dBuV/m 39.57	Antenna dB 28.70 32.15 37.20 39.60 Test channe dB 28.57	Cable dB 6.52 8.95 11.15 11.68 el Cable dB 6.56	Preamp dB 36.87 35.47 33.32 36.41 CH11 Preamp dB 36.84	dBuV/m 40.55 41.30 48.59 49.95 Level dBuV/m 37.86	Limit Over dBuV/m lim: 74.00 -33.4 74.00 -25.4 74.00 -24.6 Polarity Limit Over dBuV/m lim: 74.00 -36. 74.00 -32.	Remark it Feak Peak Feak Feak Feak Feak Feak Feak Feak F
Туре	1 2 3 4 4 Mark 1 2 3	Frequency MHz 3249.76 5112.49 8083.96 9734.78 802.11g Frequency MHz 3283.02 4760.78 7981.72	dBuV/m 42.20 35.67 33.56 35.08 Reading dBuV/m 39.57 37.22 34.17 34.92	Antenna dB 28.70 32.15 37.20 39.60 Test channe Antenna dB 28.57 31.40 37.03	Cable dB 6.52 8.95 11.15 11.68 el Cable dB 6.56 8.34 10.89 11.74	Preamp dB 36.87 35.47 33.32 36.41 CH11 Preamp dB 36.84 35.47 33.31	dBuV/m 40.55 41.30 48.59 49.95 Level dBuV/m 37.86 41.49 48.78	Limit Over dBuV/m lim: 74.00 -33.4 74.00 -25.4 74.00 -24.6 Polarity Limit Over dBuV/m lim: 74.00 -36. 74.00 -32. 74.00 -32. 74.00 -25.	Remark it Feak Peak Peak Feak Horizontal Remark it Peak Peak Peak Peak Peak
	1 2 3 4 Mark 1 2 3 4	Frequency MHz 3249.76 5112.49 8083.96 9734.78 802.11g Frequency MHz 3283.02 4760.78 7981.72 9710.03 802.11g	dBuV/m 42.20 35.67 33.56 35.08 Reading dBuV/m 39.57 37.22 34.17 34.92	Antenna dB 28.70 32.15 37.20 39.60 Test channe dB 28.57 31.40 37.03 39.60 Test channe	Cable dB 6.52 8.95 11.15 11.68 el Cable dB 6.56 8.34 10.89 11.74	Preamp dB 36.87 35.47 33.32 36.41 CH11 Preamp dB 36.84 35.47 33.31 36.53	dBuV/m 40.55 41.30 48.59 49.95 Level dBuV/m 37.86 41.49 48.78 49.73	Limit Over dBuV/m lim: 74.00 -33.4 74.00 -32.7 74.00 -25.4 74.00 -24.6 Polarity Limit Over dBuV/m lim: 74.00 -36.74.00 -32.74.00 -32.74.00 -25.74.00 -24.	Remark it 15 Peak 70 Peak 11 Peak 15 Peak 16 Peak 16 Peak 17 Peak 18 Peak 18 Peak 19 Peak 19 Peak 10 Peak 10 Peak 10 Peak 10 Peak 11 Peak 12 Peak 12 Peak 13 Peak 14 Peak 15 Peak 16 Peak 17 Peak
Туре	1 2 3 4 4 Mark 1 2 3	Frequency MHz 3249.76 5112.49 8083.96 9734.78 802.11g Frequency MHz 3283.02 4760.78 7981.72 9710.03 802.11g Frequency	dBuV/m 42.20 35.67 33.56 35.08 Reading dBuV/m 39.57 37.22 34.17 34.92	Antenna dB 28.70 32.15 37.20 39.60 Test channe Antenna dB 28.57 31.40 37.03 39.60 Test channe Antenna	Cable dB 6.52 8.95 11.15 11.68 el Cable dB 6.56 8.34 10.89 11.74 el Cable	Preamp dB 36.87 35.47 33.32 36.41 CH11 Preamp dB 36.84 35.47 33.31 36.53 CH11 Preamp	dBuV/m 40.55 41.30 48.59 49.95 Level dBuV/m 37.86 41.49 48.78 49.73	Limit Over dBuV/m lim: 74.00 -33.4 74.00 -32.7 74.00 -24.6 Polarity Limit Over dBuV/m lim: 74.00 -36.74.00 -32.74.00 -32.74.00 -25.74.00 -24.6 Polarity Polarity Limit Over dBuV/m lim: 74.00 -36.74.00 -32.74.00 -25.74.00 -24.6 Polarity Limit Over dBuV/m lim: 74.00 -36.74.00 -25.74.00 -24.6 Polarity	Remark it 15 Peak 70 Peak 11 Peak 15 Peak 16 Peak 16 Peak 17 Peak 18 Peak 18 Peak 19 Peak 19 Peak 10 Peak 10 Peak 10 Peak 10 Peak 11 Peak 11 Peak 12 Peak 12 Peak 13 Peak 14 Peak 15 Peak 16 Peak 17 Peak 18 Peak
Туре	1 2 3 4 Mark 1 2 3 4 Mark	Frequency MHz 3249.76 5112.49 8083.96 9734.78 802.11g Frequency MHz 3283.02 4760.78 7981.72 9710.03 802.11g	dBuV/m 42.20 35.67 33.56 35.08 Reading dBuV/m 39.57 37.22 34.17 34.92	Antenna dB 28.70 32.15 37.20 39.60 Test channe Antenna dB 28.57 31.40 37.03 39.60 Test channe Antenna dB Antenna dB Antenna dB	Cable dB 6.52 8.95 11.15 11.68 el Cable dB 6.56 8.34 10.89 11.74 el Cable dB	Preamp dB 36.87 35.47 33.32 36.41 CH11 Preamp dB 36.84 35.47 33.31 36.53 CH11 Preamp dB	dBuV/m 40.55 41.30 48.59 49.95 Level dBuV/m 37.86 41.49 48.78 49.73	Limit	Remark it 45 Peak 70 Peak 41 Peak 25 Peak Horizontal r Remark it 14 Peak 51 Peak 22 Peak 27 Peak Vertical r Remark it
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 3249.76 5112.49 8083.96 9734.78 802.11g Frequency MHz 3283.02 4760.78 7981.72 9710.03 802.11g Frequency MHz	dBuV/m 42.20 35.67 33.56 35.08 Reading dBuV/m 39.57 37.22 34.17 34.92	Antenna dB 28.70 32.15 37.20 39.60 Test channe Antenna dB 28.57 31.40 37.03 39.60 Test channe Antenna	Cable dB 6.52 8.95 11.15 11.68 el Cable dB 6.56 8.34 10.89 11.74 el Cable dB 6.98	Preamp dB 36.87 35.47 33.32 36.41 CH11 Preamp dB 36.84 35.47 33.31 36.53 CH11 Preamp	dBuV/m 40.55 41.30 48.59 49.95 Level dBuV/m 37.86 41.49 48.78 49.73	Limit Over dBuV/m lim: 74.00 -33.4 74.00 -25.4 74.00 -24.6 Polarity Limit Over dBuV/m lim: 74.00 -36. 74.00 -32. 74.00 -25. 74.00 -24. Polarity Limit Over dBuV/m lim: 74.00 -36. 74.00 -32. 74.00 -25. 74.00 -24. Polarity Limit Over dBuV/m lim: 74.00 -32.	Remark it 15 Peak 70 Peak 11 Peak 125 Peak Horizontal r Remark it 14 Peak 51 Peak 22 Peak 27 Peak Vertical r Remark it 40 Peak
Туре	1 2 3 4 Mark 1 2 3 4 Mark 1	Frequency MHz 3249.76 5112.49 8083.96 9734.78 802.11g Frequency MHz 3283.02 4760.78 7981.72 9710.03 802.11g Frequency MHz 3672.11	dBuV/m 42.20 35.67 33.56 35.08 Reading dBuV/m 39.57 37.22 34.17 34.92 Reading dBuV/m 42.25	Antenna dB 28.70 32.15 37.20 39.60 Test channe Antenna dB 28.57 31.40 37.03 39.60 Test channe Antenna dB 29.40	Cable dB 6.52 8.95 11.15 11.68 el Cable dB 6.56 8.34 10.89 11.74 el Cable dB 6.98 7.18	Preamp dB 36.87 35.47 33.32 36.41 CH11 Preamp dB 36.53 CH11 Preamp dB 37.03	dBuV/m 40.55 41.30 48.59 49.95 Level dBuV/m 37.86 41.49 48.78 49.73 Level dBuV/m	Limit Over dBuV/m lim 74.00 -33.4 74.00 -25.4 74.00 -24.6 Polarity Limit Over dBuV/m lim 74.00 -36. 74.00 -32. 74.00 -24. Polarity Limit Over dBuV/m lim 74.00 -32. 74.00 -25. 74.00 -24. Polarity Limit Over dBuV/m lim 74.00 -32. 74.00 -32. 74.00 -32. 74.00 -32. 74.00 -32. 74.00 -32. 74.00 -32. 74.00 -32.	Remark it 15 Peak 70 Peak 11 Peak 125 Peak Horizontal r Remark it 14 Peak 51 Peak 22 Peak 27 Peak Vertical r Remark it 40 Peak 41 Peak
Туре	1 2 3 4 Mark 1 2 3 4 Mark 1 2 2 3 4 Mark 1 2 2 Mark 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Frequency MHz 3249.76 5112.49 8083.96 9734.78 802.11g Frequency MHz 3283.02 4760.78 7981.72 9710.03 802.11g Frequency MHz 3672.11 3834.51	dBuV/m 42.20 35.67 33.56 35.08 Reading dBuV/m 39.57 37.22 34.17 34.92 Reading dBuV/m 42.25 41.60	Antenna dB 28.70 32.15 37.20 39.60 Test channe dB 28.57 31.40 37.03 39.60 Test channe dB 29.40 29.74	Cable dB 6.52 8.95 11.15 11.68 el Cable dB 6.56 8.34 10.89 11.74 el Cable dB 6.98	Preamp dB 36.87 35.47 33.32 36.41 CH11 Preamp dB 36.84 35.47 33.31 36.53 CH11 Preamp dB 37.03 36.93	dBuV/m 40.55 41.30 48.59 49.95 Level dBuV/m 37.86 41.49 48.78 49.73 Level dBuV/m 41.60 41.59	Limit Over dBuV/m lim 74.00 -33.4 74.00 -25.4 74.00 -24.6 Polarity Limit Over dBuV/m lim 74.00 -36. 74.00 -32. 74.00 -24. Polarity Limit Over dBuV/m lim 74.00 -32. 74.00 -25. 74.00 -24. Polarity	Remark it 15 Peak 70 Peak 11 Peak 125 Peak Horizontal r Remark it 14 Peak 51 Peak 22 Peak 27 Peak Vertical r Remark it 40 Peak

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Туре		802.11n((HT20)	Test chann	el	CH01		Polarity		Horizontal
	Mark	Frequency	Reading		Cable				0ver	Remark
	1	MHz 4213.21	dBuV/m 40.42		dB 7.68	dB 36.09	dBuV/m	dBuV/m 74.00	limit	
	2	5034.99	37.06	30.13 32.11	8.86	35.34	42.14 42.69	74.00	-31.86 -31.31	
	3	7527.83	35.05	36.54	10.49	33.72	48.36	74.00		4 Peak
	4	9859.47	34.65	39.50	11.75	36.65	49.25	74.00		5 Peak
Туре		802.11n((HT20)	Test chann	el	CH01		Polarity		Vertical
	Mark	Frequency	Reading	Antenna	Cable		Level	Limit	0ver	Remark
	4	MHz 3662.78	dBuV/m	dB	dB	dB	dBuV/m	dBuV/m 74.00	limit	David.
	1 2	4676.70	43.65 38.46	29.40 31.31	6.98 8.19	37.02 35.87	43.01 42.09		-30.99 -31.91	
	3	7489.60	34.92	36.60	10.43	33.94	48.01		-25.99	
	4	10507.31	35.34	40.01	12.47	37.08	50.74		-23.26	
Туре		802.11n((HT20)	Test chann	el	CH06		Polarity		Horizontal
	Marali	F	D44	A-+	C-b1	. D	1 1	122.	0	Dama ala
	Mark	Frequency MHz	Reading dBuV/m		Cable dB	e Preamp dB	Level dBuV/m		Over limi	Remark +
	1	3010.83	40.91	28.72	6.21	37.46	38.38	74.00	-35.6	
	2	4065.71	39.16	30.00	7.44	36.32	40.28	74.00	-33.7	
	3	6833.77	35.29	34.64	10.04	34.22	45.75	74.00	-28.2	
	4	9834.41	35.66	39.53	11.65	36.42	50.42	74.00	-23.5	
Туре		802.11n((HT20)	Test chann	el	CH06		Polarity		Vertical
Туре	Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
Туре		Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	dBuV/m	Limit dBuV/m	limit	Remark
Туре	1	Frequency MHz 3249.76	Reading dBuV/m 41.84	Antenna dB 28.70	Cable dB 6.52	Preamp dB 36.87	dBuV/m 40.19	Limit dBuV/m 74.00	limit -33.81	Remark Peak
Туре	1 2	Frequency MHz 3249.76 3662.78	Reading dBuV/m 41.84 43.54	Antenna dB 28.70 29.40	Cable dB 6.52 6.98	Preamp dB 36.87 37.02	dBuV/m 40.19 42.90	Limit dBuV/m 74.00 74.00	limit -33.81 -31.10	Remark Peak Peak
Туре	1	Frequency MHz 3249.76	Reading dBuV/m 41.84	Antenna dB 28.70	Cable dB 6.52	Preamp dB 36.87	dBuV/m 40.19	Limit dBuV/m 74.00 74.00 74.00	limit -33.81	Remark Peak Peak Peak
Type Type	1 2 3	Frequency MHz 3249.76 3662.78 5073.59	Reading dBuV/m 41.84 43.54 37.14 35.31	Antenna dB 28.70 29.40 32.20	Cable dB 6.52 6.98 8.90 11.84	Preamp dB 36.87 37.02 35.43	dBuV/m 40.19 42.90 42.81	Limit dBuV/m 74.00 74.00 74.00	limit -33.81 -31.10 -31.19	Remark Peak Peak Peak
	1 2 3	Frequency MHz 3249.76 3662.78 5073.59 9884.60	Reading dBuV/m 41.84 43.54 37.14 35.31	Antenna dB 28.70 29.40 32.20 39.50	Cable dB 6.52 6.98 8.90 11.84	Preamp dB 36.87 37.02 35.43 36.87	dBuV/m 40.19 42.90 42.81	Limit dBuV/m 74.00 74.00 74.00 74.00	limit -33.81 -31.10 -31.19	Remark Peak Peak Peak Peak
	1 2 3 4	Frequency MHz 3249.76 3662.78 5073.59 9884.60	Reading dBuV/m 41.84 43.54 37.14 35.31 (HT20)	Antenna dB 28.70 29.40 32.20 39.50 Test chann	Cable dB 6.52 6.98 8.90 11.84	Preamp dB 36.87 37.02 35.43 36.87	dBuV/m 40.19 42.90 42.81 49.78	Limit dBuV/m 74.00 74.00 74.00 74.00 Polarity	limit -33.81 -31.10 -31.19 -24.22	Remark Peak Peak Peak Peak Horizontal
	1 2 3 4	Frequency MHz 3249.76 3662.78 5073.59 9884.60 802.11n(Frequency	Reading dBuV/m 41.84 43.54 37.14 35.31 (HT20)	Antenna dB 28.70 29.40 32.20 39.50 Test chann	Cable dB 6.52 6.98 8.90 11.84 el	Preamp dB 36.87 37.02 35.43 36.87 CH11 Preamp	dBuV/m 40.19 42.90 42.81 49.78	Limit dBuV/m 74.00 74.00 74.00 74.00 Polarity	limit -33.81 -31.10 -31.19 -24.22 Over	Remark Peak Peak Peak Peak Horizontal Remark
	1 2 3 4	Frequency MHz 3249.76 3662.78 5073.59 9884.60 802.11n(Frequency MHz 3489.84 5112.49	Reading dBuV/m 41.84 43.54 37.14 35.31 (HT20) Reading dBuV/m 40.19 37.02	Antenna dB 28.70 29.40 32.20 39.50 Test chann Antenna dB	Cable dB 6.52 6.98 8.90 11.84 el Cable dB	Preamp dB 36.87 37.02 35.43 36.87 CH11	dBuV/m 40.19 42.90 42.81 49.78 Level dBuV/m	Limit dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit dBuV/m	limit -33.81 -31.10 -31.19 -24.22 Over limit	Remark Peak Peak Peak Peak Horizontal Remark : Peak
	1 2 3 4 Mark 1 2 3	Frequency MHz 3249.76 3662.78 5073.59 9884.60 802.11n(Frequency MHz 3489.84	Reading dBuV/m 41.84 43.54 37.14 35.31 (HT20) Reading dBuV/m 40.19 37.02 35.83	Antenna dB 28.70 29.40 32.20 39.50 Test chann Antenna dB 29.06	Cable dB 6.52 6.98 8.90 11.84 el Cable dB 6.78	Preamp dB 36.87 37.02 35.43 36.87 CH11 Preamp dB 36.60	dBuV/m 40.19 42.90 42.81 49.78 Level dBuV/m 39.43	Limit dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit dBuV/m 74.00	limit -33.81 -31.10 -31.19 -24.22 Over limit -34.57 -31.35 -23.21	Remark Peak Peak Peak Peak Horizontal Remark Peak Peak Peak
	1 2 3 4 Mark	Frequency MHz 3249.76 3662.78 5073.59 9884.60 802.11n(Frequency MHz 3489.84 5112.49	Reading dBuV/m 41.84 43.54 37.14 35.31 (HT20) Reading dBuV/m 40.19 37.02	Antenna dB 28.70 29.40 32.20 39.50 Test chann Antenna dB 29.06 32.15	Cable dB 6.52 6.98 8.90 11.84 el Cable dB 6.78 8.95	Preamp dB 36.87 37.02 35.43 36.87 CH11 Preamp dB 36.60 35.47	dBuV/m 40.19 42.90 42.81 49.78 Level dBuV/m 39.43 42.65	Limit dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit dBuV/m 74.00 74.00	limit -33.81 -31.10 -31.19 -24.22 Over limit -34.57 -31.35	Remark Peak Peak Peak Peak Horizontal Remark Peak Peak Peak
	1 2 3 4 Mark 1 2 3	Frequency MHz 3249.76 3662.78 5073.59 9884.60 802.11n(Frequency MHz 3489.84 5112.49 8063.40	Reading dBuV/m 41.84 43.54 37.14 35.31 (HT20) Reading dBuV/m 40.19 37.02 35.83 35.02	Antenna dB 28.70 29.40 32.20 39.50 Test chann Antenna dB 29.06 32.15 37.20	Cable dB 6.52 6.98 8.90 11.84 el Cable dB 6.78 8.95 11.08 12.18	Preamp dB 36.87 37.02 35.43 36.87 CH11 Preamp dB 36.60 35.47 33.32	dBuV/m 40.19 42.90 42.81 49.78 Level dBuV/m 39.43 42.65 50.79	Limit dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit dBuV/m 74.00 74.00 74.00	limit -33.81 -31.10 -31.19 -24.22 Over limit -34.57 -31.35 -23.21	Remark Peak Peak Peak Horizontal Remark Peak Peak Peak
Туре	1 2 3 4 Mark 1 2 3	Frequency MHz 3249.76 3662.78 5073.59 9884.60 802.11n(Frequency MHz 3489.84 5112.49 8063.40 9960.38	Reading dBuV/m 41.84 43.54 37.14 35.31 (HT20) Reading dBuV/m 40.19 37.02 35.83 35.02	Antenna dB 28.70 29.40 32.20 39.50 Test chann Antenna dB 29.06 32.15 37.20 39.60	Cable dB 6.52 6.98 8.90 11.84 el Cable dB 6.78 8.95 11.08 12.18	Preamp dB 36.87 37.02 35.43 36.87 CH11 Preamp dB 36.60 35.47 33.32 37.56 CH11	dBuV/m 40.19 42.90 42.81 49.78 Level dBuV/m 39.43 42.65 50.79 49.24	Limit dBuV/m 74.00 74.00 74.00 Polarity Limit dBuV/m 74.00 74.00 Polarity Limit dBuV/m 74.00 74.00 74.00 74.00 74.00 Polarity	limit -33.81 -31.10 -31.19 -24.22 Over limit -34.57 -31.35 -23.21	Remark Peak Peak Peak Horizontal Remark Peak Peak Peak Peak Peak Peak
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 3249.76 3662.78 5073.59 9884.60 802.11n(Frequency MHz 3489.84 5112.49 8063.40 9960.38	Reading dBuV/m 41.84 43.54 37.14 35.31 (HT20) Reading dBuV/m 40.19 37.02 35.83 35.02	Antenna dB 28.70 29.40 32.20 39.50 Test chann Antenna dB 29.06 32.15 37.20 39.60	Cable dB 6.52 6.98 8.90 11.84 el Cable dB 6.78 8.95 11.08 12.18	Preamp dB 36.87 37.02 35.43 36.87 CH11 Preamp dB 36.60 35.47 33.32 37.56 CH11	dBuV/m 40.19 42.90 42.81 49.78 Level dBuV/m 39.43 42.65 50.79 49.24	Limit dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit dBuV/m 74.00 74.00 74.00 74.00 74.00 Polarity Limit	limit -33.81 -31.10 -31.19 -24.22 Over limit -34.57 -31.35 -23.21 -24.76	Remark Peak Peak Peak Peak Horizontal Remark Peak Peak Peak Peak Peak Peak Peak Remark
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 3249.76 3662.78 5073.59 9884.60 802.11n(Frequency MHz 3489.84 5112.49 8063.40 9960.38 802.11n(Frequency	Reading dBuV/m 41.84 43.54 37.14 35.31 (HT20) Reading dBuV/m 40.19 37.02 35.83 35.02 (HT20)	Antenna dB 28.70 29.40 32.20 39.50 Test chann Antenna dB 29.06 32.15 37.20 39.60 Test chann	Cable 6.98 8.90 11.84 el Cable 6.78 8.95 11.08 12.18 el Cable	Preamp dB 36.87 37.02 35.43 36.87 CH11 Preamp dB 36.60 35.47 33.32 37.56 CH11 Preamp dB	dBuV/m 40.19 42.90 42.81 49.78 Level dBuV/m 39.43 42.65 50.79 49.24	Limit dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit dBuV/m 74.00 74.00 74.00 74.00 74.00 Polarity Limit	limit -33.81 -31.10 -31.19 -24.22 Over limit -34.57 -31.35 -23.21 -24.76	Remark Peak Peak Peak Peak Horizontal Remark Peak Peak Peak Peak Peak Peak Peak Remark
Туре	1 2 3 4 Mark 1 2 3 4 Mark 1 2 2 3 4	Frequency MHz 3249.76 3662.78 5073.59 9884.60 802.11n(Frequency MHz 3489.84 5112.49 8063.40 9960.38 802.11n(Frequency MHz	Reading dBuV/m 41.84 43.54 37.14 35.31 (HT20) Reading dBuV/m 40.19 37.02 35.83 35.02 (HT20) Reading dBuV/m 40.19 37.02 35.83 35.02 (HT20)	Antenna dB 28.70 29.40 32.20 39.50 Test chann Antenna dB 29.06 32.15 37.20 39.60 Test chann Antenna dB	Cable dB 6.52 6.98 8.99 11.84 el Cable dB 6.78 8.95 11.08 12.18	Preamp dB 36.87 37.02 35.43 36.87 CH11 Preamp dB 36.60 35.47 33.32 37.56 CH11 Preamp dB 37.03 35.30	dBuV/m 40.19 42.90 42.81 49.78 Level dBuV/m 39.43 42.65 50.79 49.24 Level dBuV/m	Limit dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit dBuV/m 74.00 74.00 74.00 Polarity Limit dBuV/m 74.00 74.00 74.00 74.00	1imit -33.81 -31.10 -31.19 -24.22 Over limit -34.57 -31.35 -23.21 -24.76 Over limit -28.99 -30.19	Remark Peak Peak Peak Peak Horizontal Remark Peak Peak Peak Peak Peak Peak Peak Pe
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 3249.76 3662.78 5073.59 9884.60 802.11n(Frequency MHz 3489.84 5112.49 8063.40 9960.38 802.11n(Frequency MHz 3672.11	Reading dBuV/m 41.84 43.54 37.14 35.31 (HT20) Reading dBuV/m 40.19 37.02 35.83 35.02 (HT20) Reading dBuV/m 45.66	Antenna dB 28.70 29.40 32.20 39.50 Test chann Antenna dB 29.06 32.15 37.20 39.60 Test chann Antenna dB 29.40	Cable dB 6.52 6.98 8.99 11.84 el Cable dB 6.78 8.95 11.08 12.18 el Cable dB 6.98	Preamp dB 36.87 37.02 35.43 36.87 CH11 Preamp dB 36.60 35.47 33.32 37.56 CH11 Preamp dB 37.03 35.30 33.36	dBuV/m 40.19 42.90 42.81 49.78 Level dBuV/m 39.43 42.65 50.79 49.24 Level dBuV/m 45.01	Limit dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit dBuV/m 74.00 Polarity	1imit -33.81 -31.10 -31.19 -24.22 Over 1imit -34.57 -31.35 -23.21 -24.76 Over 1imit -28.99 -30.11 -24.31	Remark Peak Peak Peak Peak Horizontal Remark Peak Peak Peak Peak Peak Peak Peak Pe

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Туре		802.11n(HT40)	Test channe	el	CH03		Polarity		Horizontal
	Mark	Frequency MHz	Reading dBuV/m		Cable dB	e Preamp dB	Level dBuV/n		Over limi	
	1	3913.39	39.79	29.83	7.34	36.66	40.30		-33.7	
	2	5895.77	36.39	32.29	9.58	35.04	43.22	74.00	-30.7	78 Peak
	3	8042.90	34.91	37.19	11.02	33.31	49.81	74.00	-24.1	.9 Peak
	4	10321.74	35.38	39.74	12.43	37.38	50.17	74.00	-23.8	33 Peak
Туре		802.11n(HT40)	Test channe	el	CH03		Polarity		Vertical
	Mark	Frequency MHz	Reading dBuV/n	•	Cable dB	e Preamp dB	Level dBuV/m		Over limit	Remark :
	1	3233.26	41.72	28.77	6.50	36.88	40.11	74.00 -	33.89) Peak
	2	3662.78	43.88	29.40	6.98	37.02	43.24		30.76	
	3	5504.17	38.08	31.89	9.34	35.30	44.01		29.99	
	4	9859.47	36.08	39.50	11.75	36.65	50.68	74.00 -	23.32	Peak
Туре		802.11n(HT40)	Test channe	el	CH06		Polarity		Horizontal
	Mark	Frequency	Reading	Antenna	Cable		Level	Limit	Over	
		MHz	dBuV/m	ı dB	dB	dB	dBuV/m	n dBuV/m	limi	t
	1	3003.17	41.24	28.71	6.20	37.46	38.69	74.00	-35.3	
	2	4076.07	38.35	30.00	7.45	36.32	39.48		-34.5	
	3	8022.46	34.33	37.14	10.95	33.31	49.11		-24.8	
	4	10348.05	35.00	39.80	12.44	37.34	49.90	74.00	-24.1	0 Peak
Туре		802.11n(HT40)	Test channe	el	CH06		Polarity		Vertical
Туре	Mark	Frequency	Reading	Antenna	Cable	e Preamp	Level	Limit	0ver	Remark
Type		Frequency MHz	Reading dBuV/m	g Antenna n dB	Cable dB	e Preamp dB	dBuV/m	Limit n dBuV/m	limi	Remark t
Type	1	Frequency MHz 3662.78	Reading dBuV/m 43.04	Antenna dB 29.40	Cable dB 6.98	Preamp dB 37.02	dBuV/m 42.40	Limit dBuV/m 74.00	limi -31.6	Remark t 0 Peak
Type	1 2	Frequency MHz 3662.78 4605.81	Reading dBuV/m 43.04 37.47	Antenna dB 29.40 31.11	Cable dB 6.98 8.13	e Preamp dB 37.02 36.09	dBuV/m 42.40 40.62	Limit dBuV/m 74.00 74.00	limi -31.6 -33.3	Remark t 0 Peak 8 Peak
Type	1 2 3	Frequency MHz 3662.78 4605.81 8022.46	Reading dBuV/m 43.04 37.47 34.64	Antenna dB 29.40 31.11 37.14	Cable dB 6.98 8.13 10.95	e Preamp dB 37.02 36.09 33.31	dBuV/m 42.40 40.62 49.42	Limit dBuV/m 74.00 74.00	limi -31.6 -33.3 -24.5	Remark t 0 Peak 8 Peak 8 Peak
Type	1 2	Frequency MHz 3662.78 4605.81	Reading dBuV/m 43.04 37.47	Antenna dB 29.40 31.11	Cable dB 6.98 8.13	e Preamp dB 37.02 36.09	dBuV/m 42.40 40.62	Limit dBuV/m 74.00 74.00	limi -31.6 -33.3 -24.5	Remark t 0 Peak 8 Peak
Type	1 2 3	Frequency MHz 3662.78 4605.81 8022.46	Reading dBuV/m 43.04 37.47 34.64 35.13	Antenna dB 29.40 31.11 37.14	Cable dB 6.98 8.13 10.95 12.46	e Preamp dB 37.02 36.09 33.31	dBuV/m 42.40 40.62 49.42	Limit dBuV/m 74.00 74.00	limi -31.6 -33.3 -24.5	Remark t 0 Peak 8 Peak 8 Peak
	1 2 3	Frequency MHz 3662.78 4605.81 8022.46 10453.95	Reading dBuV/m 43.04 37.47 34.64 35.13	Antenna dB 29.40 31.11 37.14 39.95	Cable dB 6.98 8.13 10.95 12.46	Preamp dB 37.02 36.09 33.31 37.16	dBuV/m 42.40 40.62 49.42	Limit dBuV/m 74.00 74.00 74.00 74.00 Polarity	limi -31.6 -33.3 -24.5	Remark t 0 Peak 8 Peak 8 Peak 2 Peak
	1 2 3 4	Frequency MHz 3662.78 4605.81 8022.46 10453.95	Reading dBuV/m 43.04 37.47 34.64 35.13	Antenna dB 29.40 31.11 37.14 39.95 Test channo	Cable dB 6.98 8.13 10.95 12.46	Preamp dB 37.02 36.09 33.31 37.16	dBuV/m 42.40 40.62 49.42 50.38	Limit 1 dBuV/m 74.00 74.00 74.00 74.00 74.00 Polarity Limit	limi -31.6 -33.3 -24.5 -23.6	Remark t 0 Peak 8 Peak 8 Peak 2 Peak Horizontal
	1 2 3 4	Frequency MHz 3662.78 4605.81 8022.46 10453.95 802.11n(Frequency	Reading dBuV/m 43.04 37.47 34.64 35.13 HT40)	Antenna dB 29.40 31.11 37.14 39.95 Test channo	Cable dB 6.98 8.13 10.95 12.46	Preamp dB 37.02 36.09 33.31 37.16 CH09	dBuV/m 42.40 40.62 49.42 50.38	Limit 1	limi -31.6 -33.3 -24.5 -23.6	Remark t 0 Peak 8 Peak 8 Peak 2 Peak Horizontal Remark t
	1 2 3 4 Mark	Frequency MHz 3662.78 4605.81 8022.46 10453.95 802.11n(Frequency MHz	Reading dBuV/m 43.04 37.47 34.64 35.13 HT40)	Antenna dB 29.40 31.11 37.14 39.95 Test channo dB	Cable dB 6.98 8.13 10.95 12.46	Preamp dB 37.02 36.09 33.31 37.16 CH09	dBuV/m 42.40 40.62 49.42 50.38 Level dBuV/m	Limit 1	limi -31.6 -33.3 -24.5 -23.6 Over limi	Remark t 0 Peak 8 Peak 8 Peak 2 Peak Horizontal Remark t 5 Peak
	1 2 3 4 Mark	Frequency MHz 3662.78 4605.81 8022.46 10453.95 802.11n(Frequency MHz 3216.84	Reading dBuV/m 43.04 37.47 34.64 35.13 HT40) Reading dBuV/m 39.54	Antenna dB 29.40 31.11 37.14 39.95 Test channo Antenna dB 28.83	Cable 6.98 8.13 10.95 12.46 el Cable dB 6.48	Preamp dB 37.02 36.09 33.31 37.16 CH09 Preamp dB 36.90	dBuV/m 42.40 40.62 49.42 50.38 Level dBuV/m 37.95	Limit 1	limi -31.6 -33.3 -24.5 -23.6 Over limi -36.0	Remark t 0 Peak 8 Peak 8 Peak 2 Peak Horizontal Remark t 5 Peak 8 Peak
	1 2 3 4 Mark	Frequency MHz 3662.78 4605.81 8022.46 10453.95 802.11n(Frequency MHz 3216.84 5099.49	Reading dBuV/m 43.04 37.47 34.64 35.13 HT40) Reading dBuV/m 39.54 37.27	Antenna dB 29.40 31.11 37.14 39.95 Test channo dB 28.83 32.20	Cable 6.98 8.13 10.95 12.46 el Cable 6.48 8.93	Preamp dB 37.02 36.09 33.31 37.16 CH09 Preamp dB 36.90 35.48	dBuV/m 42.40 40.62 49.42 50.38 Level dBuV/m 37.95 42.92	Limit dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit dBuV/m 74.00 74.00 74.00 74.00	limi -31.6 -33.3 -24.5 -23.6 Over limi -36.0 -31.0	Remark t 0 Peak 8 Peak 8 Peak 2 Peak Horizontal Remark t 5 Peak 8 Peak 2 Peak
	1 2 3 4 Mark 1 2 3	Frequency MHz 3662.78 4605.81 8022.46 10453.95 802.11n(Frequency MHz 3216.84 5099.49 8063.40	Reading dBuV/m 43.04 37.47 34.64 35.13 HT40) Reading dBuV/m 39.54 37.27 33.92 35.18	Antenna dB 29.40 31.11 37.14 39.95 Test channe dB 28.83 32.20 37.20	Cable 6.98 8.13 10.95 12.46 el Cable 6.48 8.93 11.08 12.46	Preamp dB 37.02 36.09 33.31 37.16 CH09 Preamp dB 36.90 35.48 33.32	dBuV/m 42.40 40.62 49.42 50.38 Level dBuV/m 37.95 42.92 48.88	Limit dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit dBuV/m 74.00 74.00 74.00 74.00	0ver limi -31.6 -33.3 -24.5 -23.6 0ver limi -36.0 -31.0 -25.1	Remark t 0 Peak 8 Peak 8 Peak 2 Peak Horizontal Remark t 5 Peak 8 Peak 2 Peak
Туре	1 2 3 4 Mark 1 2 3	Frequency MHz 3662.78 4605.81 8022.46 10453.95 802.11n(Frequency MHz 3216.84 5099.49 8063.40 10453.95	Reading dBuV/m 43.04 37.47 34.64 35.13 HT40) Reading dBuV/m 39.54 37.27 33.92 35.18	Antenna dB 29.40 31.11 37.14 39.95 Test channe dB 28.83 32.20 37.20 39.95 Test channe	Cable 6.98 8.13 10.95 12.46 el Cable 6.48 8.93 11.08 12.46	Preamp dB 37.02 36.09 33.31 37.16 CH09 Preamp dB 36.90 35.48 33.32 37.16 CH09	dBuV/m 42.40 40.62 49.42 50.38 Level dBuV/m 37.95 42.92 48.88	Limit dBuV/m 74.00 74.00 74.00 74.00	limi -31.6 -33.3 -24.5 -23.6 Over limi -36.0 -25.1 -23.5	Remark t 0 Peak 8 Peak 8 Peak 2 Peak Horizontal Remark t 5 Peak 8 Peak 2 Peak 7 Peak Vertical Remark
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 3662.78 4605.81 8022.46 10453.95 802.11n(Frequency MHz 3216.84 5099.49 8063.40 10453.95 802.11n(Reading dBuV/m 43.04 37.47 34.64 35.13 HT40) Reading dBuV/m 39.54 37.27 33.92 35.18	Antenna dB 29.40 31.11 37.14 39.95 Test channe dB 28.83 32.20 37.20 39.95 Test channe Antenna Antenna Antenna	Cable 6.98 8.13 10.95 12.46 el Cable 8.93 11.08 12.46 el Cable dB	Preamp dB 37.02 36.09 33.31 37.16 CH09 Preamp dB 36.90 35.48 33.32 37.16 CH09 Preamp dB	dBuV/m 42.40 40.62 49.42 50.38 Level dBuV/m 37.95 42.92 48.88 50.43	Limit dBuV/m 74.00 74.	limi -31.6 -33.3 -24.5 -23.6 Over limi -36.0 -25.1 -23.5 Over limi	Remark t 0 Peak 8 Peak 8 Peak 2 Peak Horizontal Remark t 5 Peak 8 Peak 2 Peak 7 Peak Vertical Remark t
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 3662.78 4605.81 8022.46 10453.95 802.11n(Frequency MHz 3216.84 5099.49 8063.40 10453.95 802.11n(Frequency MHz 3662.78	Reading dBuV/m 43.04 37.47 34.64 35.13 HT40) Reading dBuV/m 39.54 37.27 33.92 35.18 HT40) Reading dBuV/m 44.53	Antenna dB 29.40 31.11 37.14 39.95 Test channe dB 28.83 32.20 37.20 39.95 Test channe Antenna Antenna Antenna	Cable 6.98 8.13 10.95 12.46 el Cable 1.08 12.46 el Cable 6.98	Preamp dB 37.02 36.09 33.31 37.16 CH09 Preamp dB 36.90 35.48 33.32 37.16 CH09 Preamp dB 37.02	dBuV/m 42.40 40.62 49.42 50.38 Level dBuV/m 37.95 42.92 48.88 50.43 Level dBuV/m 43.89	Limit dBuV/m 74.00 74.	limi -31.6 -33.3 -24.5 -23.6 Over limi -36.0 -25.1 -23.5 Over limi	Remark t 0 Peak 8 Peak 8 Peak 2 Peak Horizontal Remark t 5 Peak 8 Peak 2 Peak 7 Peak Vertical Remark t
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 3662.78 4605.81 8022.46 10453.95 802.11n(Frequency MHz 3216.84 5099.49 8063.40 10453.95 802.11n(Frequency MHz 3662.78 5504.17	Reading dBuV/m 43.04 37.47 34.64 35.13 HT40) Reading dBuV/m 39.54 37.27 33.92 35.18 HT40) Reading dBuV/m 44.53 36.89	Antenna dB 29.40 31.11 37.14 39.95 Test channe Antenna dB 28.83 32.20 39.95 Test channe Antenna dB 28.83 32.20 39.95	Cable 6.98 8.13 10.95 12.46 el Cable 6.48 8.93 11.08 12.46 el Cable 6.98 9.34	Preamp dB 37.02 36.09 33.31 37.16 CH09 Preamp dB 36.90 35.48 33.32 37.16 CH09 Preamp dB 37.02 35.30	dBuV/m 42.40 40.62 49.42 50.38 Level dBuV/m 37.95 42.92 48.88 50.43 Level dBuV/m 43.89 42.82	Limit dBuV/m 74.00 74.	0ver limi -31.6 -33.3 -24.5 -23.6 0ver limi -36.0 -25.1 -23.5 0ver limi -30.1:	Remark t 0 Peak 8 Peak 8 Peak 2 Peak Horizontal Remark t 5 Peak 8 Peak 2 Peak 7 Peak Vertical Remark t 1 Peak 8 Peak
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 3662.78 4605.81 8022.46 10453.95 802.11n(Frequency MHz 3216.84 5099.49 8063.40 10453.95 802.11n(Frequency MHz 3662.78	Reading dBuV/m 43.04 37.47 34.64 35.13 HT40) Reading dBuV/m 39.54 37.27 33.92 35.18 HT40) Reading dBuV/m 44.53	Antenna dB 29.40 31.11 37.14 39.95 Test channa dB 28.83 32.20 37.20 39.95 Test channa dB Antenna dB 28.83 32.20 37.20 39.95	Cable 6.98 8.13 10.95 12.46 el Cable 1.08 12.46 el Cable 6.98	Preamp dB 37.02 36.09 33.31 37.16 CH09 Preamp dB 36.90 35.48 33.32 37.16 CH09 Preamp dB 37.02 35.30 33.32	dBuV/m 42.40 40.62 49.42 50.38 Level dBuV/m 37.95 42.92 48.88 50.43 Level dBuV/m 43.89	Limit dBuV/m 74.00 74.	0ver limi -31.6 -33.3 -24.5 -23.6 0ver limi -36.0 -25.1 -23.5 0ver limi -30.1: -30.1: -31.16	Remark t 0 Peak 8 Peak 8 Peak 2 Peak Horizontal Remark t 5 Peak 8 Peak 2 Peak 7 Peak Vertical Remark t 1 Peak 8 Peak

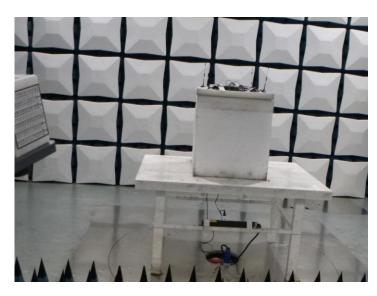
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6. TEST SETUP PHOTOS

Radiated Emission







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AC Conducted Emission

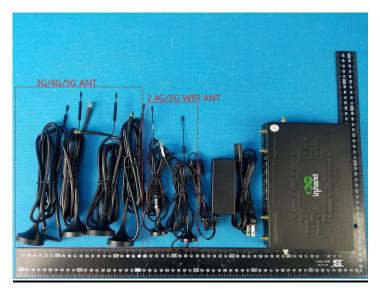


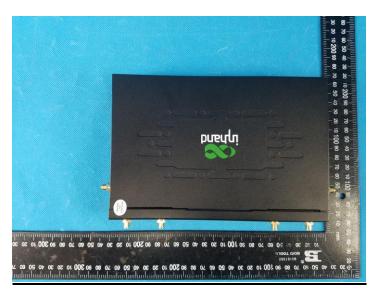
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7. EXTERANAL AND INTERNAL PHOTOS

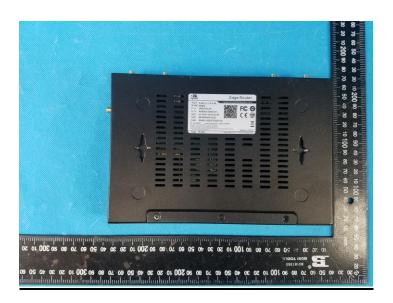
External Photos







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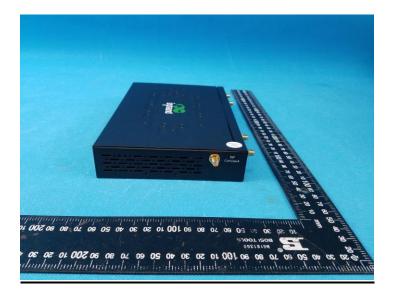






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Internal Photos

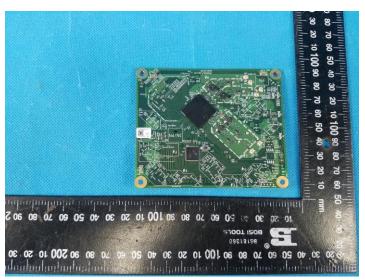


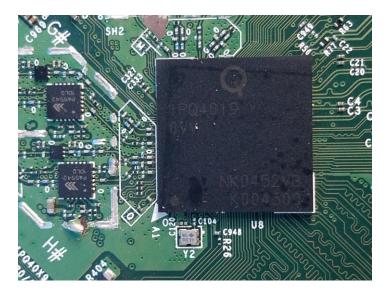




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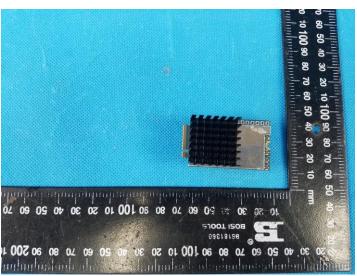


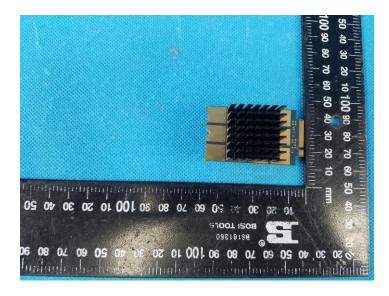




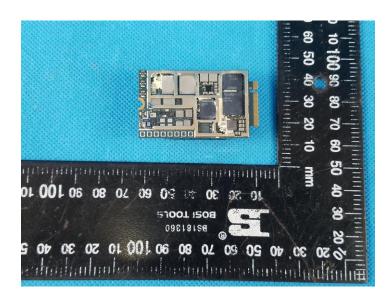
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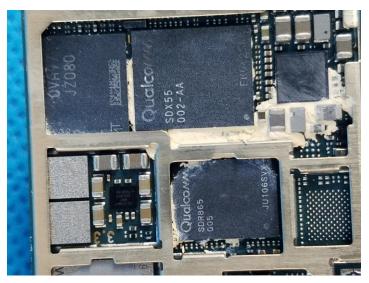






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8. APPENDIX REPORT