TEST REPORT

Report No.:: CHTEW21120194 Report Verification:

Project No..... SHT2106117007

FCC ID.....:: **2AKFL-BX6100**

Applicant's name: Shenzhen Handheld-Wireless Technology Co., Ltd

Address.....: East of 4th Floor, Building A, PowerLeader Science&Technology

Park, Guanhu Street, Longhua District, Shenzhen, China

Test item description: **Mobile Data Terminal**

Trade Mark: Handheld-Wireless

Model/Type reference..... BX6100

Listed Model(s): BX6200, BX6000, X6

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

Date of receipt of test sample.....: Nov. 08, 2021

Date of testing..... Nov. 09, 2021- Dec. 22, 2021

Date of issue.....: Dec. 23, 2021

Result....: **PASS**

Compiled by

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

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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

1.2. Report version

Revision No.	Date of issue	Description
N/A	2021-12-23	Original

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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:	Shenzhen Handheld-Wireless Technology Co., Ltd
Address: East of 4th Floor, Building A, PowerLeader Science&Technology F Guanhu Street, Longhua District, Shenzhen, China	
Manufacturer:	Shenzhen Handheld-Wireless Technology Co., Ltd
Address:	East of 4th Floor, Building A, PowerLeader Science&Technology Park, Guanhu Street, Longhua District, Shenzhen, China

3.2. Product Description

Name of EUT:	Mobile Data Terminal
Trade Mark:	Handheld-Wireless
Model No.:	BX6100
Listed Model(s):	BX6200, BX6000, X6
Power supply:	DC 3.8V
Battery Information:	DC 3.8V,9000mAh
Adapter Information:	Model:GME10C-050200FUu Input: AC100-240V, 50/60Hz, 0.28A Output: 5.0Vdc, 2.0A
Hardware version:	V3.1
Software version:	Android 10.0

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:	PIFA antenna
Antenna gain:	0.5dBi

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 Number		
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 connect with the WLAN AP under large package sizes 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)	3.00 dB
Radiated Emission (30MHz~1000MHz	4.36 dB
Radiated Emissions (1GHz~25GHz)	5.10 dB
Peak Output Power	0.77dB
Power Spectral Density	0.77dB
Conducted Spurious Emission	0.77dB
6dB Bandwidth	70Hz for <1GHz 130Hz for >1GHz

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	2021/9/13	2022/9/12
•	EMI Test Receiver	R&S	HTWE0111	ESCI	101247	2021/9/13	2022/9/12
•	Artificial Mains	SCHWARZBECK	HTWE0113	NNLK 8121	573	2021/9/13	2022/9/12
•	Pulse Limiter	R&S	HTWE0033	ESH3-Z2	100499	2021/9/13	2022/9/12
•	RF Connection Cable	HUBER+SUHNER	HTWE0113-02	ENVIROFLE X_142	EF-NM- BNCM-2M	2021/9/13	2022/9/12
•	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	2022/09/29
•	EMI Test Receiver	R&S	HTWE0099	ESCI	100900	2021/9/14	2022/9/13
•	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	2021/11/5	2022/11/4
•	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	2022/09/26
•	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2021/9/13	2022/9/12
•	Horn Antenna	SCHWARZBECK	HTWE0126	9120D	1011	2020/04/01	2023/03/31
•	Broadband Horn Antenna	SCHWARZBECK	HTWE0103	BBHA9170	BBHA9170472	2020/4/27	2023/4/27
•	Pre-amplifier	CD	HTWE0071	PAP-0102	12004	2021/11/5	2022/11/4
•	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	HTWE0120-03	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	2021/9/13	2022/9/12
•	Spectrum Analyzer	Agilent	N9020A	MY50510187	2021/9/13	2022/9/12
•	Power Meter	Anritsu	ML249A	N/A	2021/9/13	2022/9/12
0	Radio communication tester	R&S	CMW500	137688-Lv	2021/9/13	2022/9/12

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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.

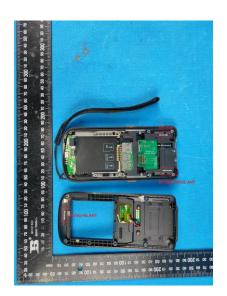
FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(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

$oxed{oxed}$ Passed	☐ Not Applicable
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The antenna type is a PIFA antenna, the directional gain of the antenna less than 6 dBi, please refer to the below antenna photo.



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5.2. AC Conducted Emission

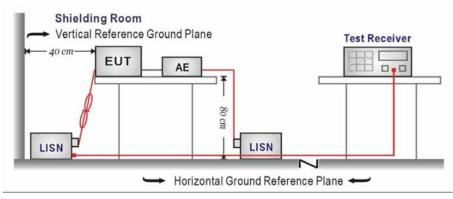
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207

Fragues ou range (MHz)	Limit (d	BuV)
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

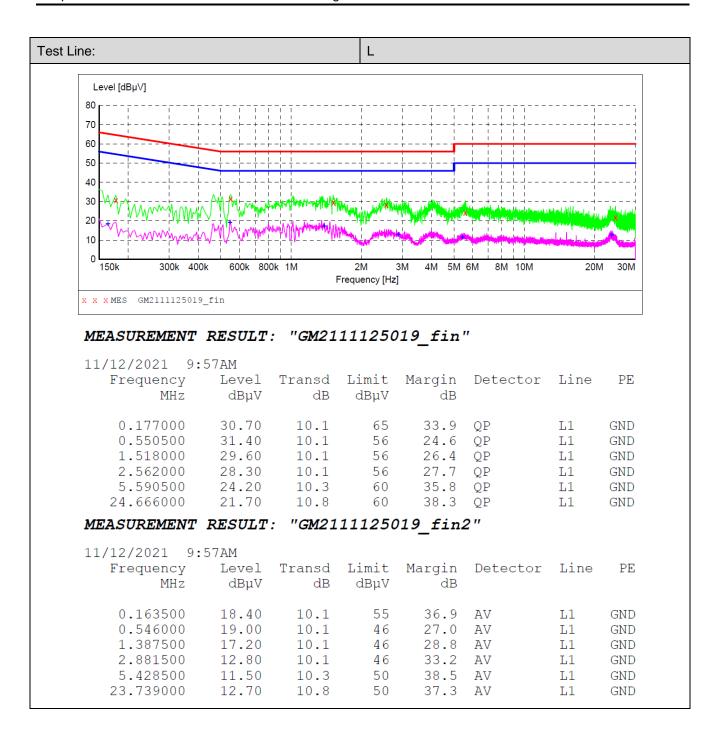
- 1. The EUT was setup according to ANSI C63.10 requirements.
- 2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from 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:

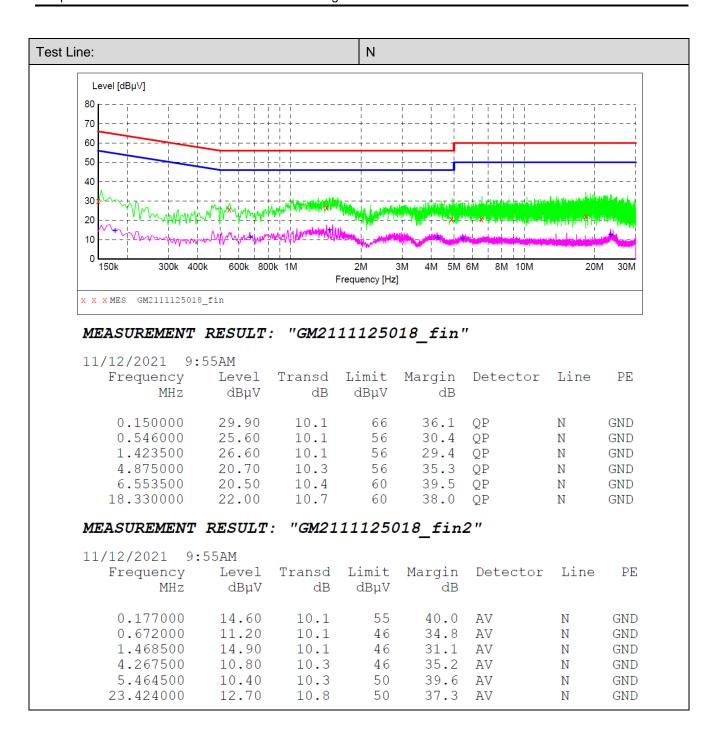
Please refer to the clause 4.2

TEST RESULT

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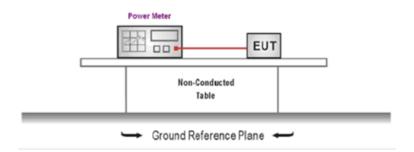
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5.3. Peak Output Power

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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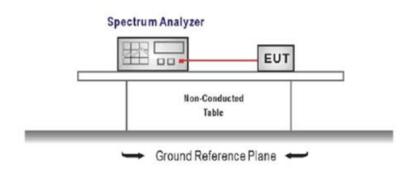
5.4. Power Spectral Density

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 8dBm 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,
- 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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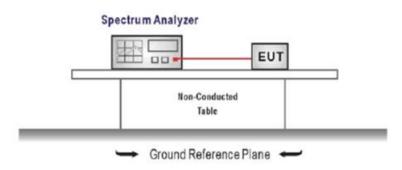
5.5. 6dB bandwidth

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.
- 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

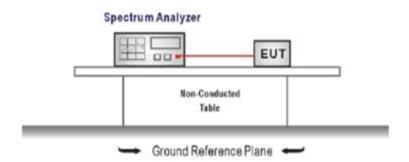
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5.6. 99% Occupied Bandwidth

<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

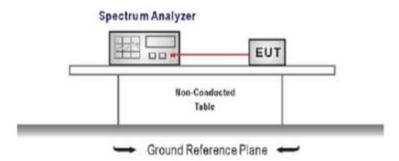
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5.7. Duty Cycle

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
- 3. 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

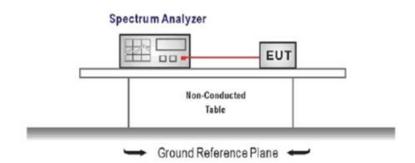
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5.8. Conducted Band edge and Spurious Emission

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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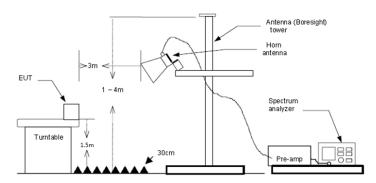
5.9. Radiated Band edge Emission

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
 - 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:

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

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Туре		802.11	b	Test ch	nannel	CH	101	Р	olarity		Horizontal	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	p Aux dB	Level dBuV/m	Limit dBuV/n	Over n limi		
	1 2	2310.00 2390.01	36.70 37.07	27.96 27.72	5.43 5.53	37.56 37.45	20.00 20.00	52.53 52.87	74.00 74.00	-21.47 -21.13		
	Mark	Frequency MHz	dBuV/m	Antenna dB	dB	Preamp dB	dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
	2	2310.00 2390.01	30.43 29.90	27.96 27.72		37.56 37.45	20.00 20.00		54.00 54.00	-7.74 -8.30	Average Average	
Туре		802.11	b	Test ch	nannel	CH	101	P	olarity		Vertical	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/n	Over 1 limi		
		2310.00 2390.01	36.15 36.12	27.96 27.72	5.43 5.53	37.56 37.45	20.00 20.00	51.98 51.92	74.00 74.00	-22.02 -22.08		
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
	1 2	2310.00 2390.01	29.94 29.89	27.96 27.72		37.56 37.45	20.00 20.00		54.00 54.00	-8.23 -8.31	Average Average	

Туре		802.11b)	Test cha	annel	СН	11	Pol	arity		Horizontal
-	Mark	Frequency	_	Antenna				Level	Limit	0ve	
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m		
	_	2483.49		27.43	5.64	37.26	20.00	53.56	74.00	-20.4	
	2	2500.00	36.03	27.40	5.66	37.26	20.00	51.83	/4.00	-22.1	7 Peak
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
	1	2483.49	30.12	27.43	5.64	37.26	20.00	45.93	54.00	-8.07	Average
	2	2500.00	28.53	27.40	5.66	37.26	20.00	44.33	54.00	-9.67	Average
Туре		802.11b		Test cha	annel	СН	11	Pol	arity		Vertical
-	 ماصحاف	Engage	Dooding	Antenna	 Cable		p Aux	Level	Limit	0ve	r Remark
	mark	Frequency MHz	dBuV/m	dB	dB	dB	p Aux dB	dBuV/m			
	1	2483.49	36.05		5.64			51.86	-		
	2	2500.00	36.57	27.40	5.66		20.00	52.37		-21.6	
-											
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
		2483.49	29.55	27.43	5.64	37.26	20.00	45.36	54.00	-8.64	Average
	1	2403.49	29.55	27.43	3.04	37.20	20.00	45.50	34.00	-0.04	Average

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Туре		802.11g		Test cha	annel	CH	01	Po	olarity		Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m		ver imit	Remark
		2310.00	25.35 25.77	27.96 27.72	5.43	37.56 37.45	20.00	41.1	8 54.00 -12	2.82	Average Average
-	Mark	Frequency	_	Antenna		Preamp dB		Level	Limit	Over	
	_	MHz 2310.00 2390.01	dBuV/m 36.66 37.25	dB 27.96 27.72	dB 5.43 5.53	37.56 37.45	dB 20.00 20.00	dBuV/m 52.49 53.05	74.00 -	limi 21.51 20.95	Peak
Туре		802.11g		Test cha	annel	CH	01	Po	olarity	,	Vertical
-	Mark		Reading	Antenna				Level		Over	Remark
	1 2	MHz 2310.00 2390.01	dBuV/m 25.39 27.18	dB 27.96 27.72	dB 5.43 5.53	dB 37.56 37.45	dB 20.00 20.00		2 54.00 -12	limit 2.78 1.02	Average Average
-	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp	Aux dB	Level dBuV/m	Limit dBuV/m	Over	
	1 2	2310.00 2390.01	36.59 39.22	27.96 27.72	5.43 5.53	37.56 37.45	20.00	52.42 55.02	74.00 -	21.58 18.98	Peak

Туре		802.11g		Test cha	annel	СН	11	Po	larity	Horizontal
	Mark	Frequency MHz	_	Antenna dB	Cable dB	Pream dB	Aux dB	Level		er Remark mit
	1		dBuV/m 43.24			37.26		dBuV/m 59.05		
	2		36.53			37.26			74.00 -21.	
-	Mark	Frequency MHz	_	Antenna dB	Cable dB		Aux dB	Level dBuV/m	Limit Over dBuV/m limi	
	1	2483.49	29.93	27.43	5.64	37.26	20.00	45.74	4 54.00 -8.26	5 Average
	2	2500.00	24.96	27.40	5.66	37.26	20.00	40.7	5 54.00 -13.24	4 Average
Туре		802.11g		Test cha	annel	СН	11	Po	larity	Vertical
-	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream dB		Level dBuV/m		er Remark mit
	1	2483.49				37.26				
	2	2500.00	37.46	27.40	5.66	37.26	20.00	53.26	74.00 -20.	74 Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB		Level dBuV/m	Limit Over	Remark
	1	2483.49		27.43	5.64 3	7.26	20.00		54.00 -10.82	Average
	2	2500.00	24.99	27.40	5.66 3	7.26	20.00	40.79	54.00 -13.21	Average

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Туре		802.11n	(HT20)	Test	channe	el (CH01	P	olarity	Horizontal
	Mark	Frequency		Antenna dB	Cable dB	Pream dB	mp Aux dB	Level dBuV/m	Limit Ove	
	1 2		36.87 46.01	27.96	5.43 5.53	37.56	20.00	52.70	74.00 -21. 74.00 -12.	30 Peak
	Mark	Frequency	_	Antenna dB	Cable dB	Pream dB	p Aux dB	Level dBuV/m	Limit Over dBuV/m limi	
	1 2		25.45	27.96 27.72		37.56	20.00	41.28 45.34	54.00 -12.72	Average
Туре		802.11n	(HT20)	Test	channe	el (CH01	Po	olarity	Vertical
	Mark	Frequency MHz	Reading /	Antenna dB	Cable dB	Pream dB	ıp Aux dB	Level dBuV/m	Limit Ove	
	1 2	2310.00 2390.01	36.65		5.43	37.56 37.45	20.00 20.00	52.48	74.00 -21. 74.00 -18.	52 Peak
	Mark	Frequency MHz	Reading A	Antenna dB	Cable dB	Pream; dB	Aux dB	Level dBuV/m	Limit Over dBuV/m limi	
	1 2	2310.00 2390.01		27.96 27.72		37.56 37.45	20.00 20.00		54.00 -12.73 54.00 -11.79	

Туре		802.11n	(HT20)	Test	chann	el C	CH11	Р	olarity	Horizontal
	Mark	Frequency	_					Level	Limit Over	
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m limi	
	1	2483.49	30.73	27.43	5.64	37.26	20.00	46.54	54.00 -7.46	5 Average
	2	2500.00	24.93	27.40	5.66	37.26	20.00	40.73	54.00 -13.27	7 Average
-	Mark	Frequency	Reading	Antenna	Cable	e Pream	p Aux	Level	Limit Ov	er Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m li	mit
	1	2483.49	47.66	27.43	5.64	37.26	20.00	63.47	74.00 -10.	53 Peak
	2	2500.00	36.79	27.40	5.66	37.26	20.00	52.59	74.00 -21.4	41 Peak
Туре		802.11n	(HT20)	Test	chann	el C	CH11	Р	olarity	Vertical
-										
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit Over	Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m limit	t
	1	2483.49	28.68	27.43	5.64	37.26	20.00	44.49	54.00 -9.51	Average
	2	2500.00	25.04	27.40	5.66	37.26	20.00	40.84	54.00 -13.16	Average
	Mark	Frequency	Reading	Antenna	Cable	Pream	p Aux	Level	Limit Ove	er Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m lin	nit
	1	2483.49	44.00	27.43	5.64	37.26	20.00	59.81	74.00 -14.1	l9 Peak

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Туре		802.11	n(HT40)	Test c	hannel		CH03		Polarity		Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Prea dB		Level dBuV/m		over limit	Remark
		2310.00		27.96		37.56	20.00	41.	87 54.00 -12	2.13 3.87	Average Average
-	Mark	Frequency	_							0ver	
	1	MHz 2310.00	dBuV/m 36.38	dB 27.96	dB 5.43		dB 6 20.00		74.00 -	limi 21.79	Peak
	2 3	2388.58 2389.99	51.38 50.45	27.72 27.72	5.53 5.53					-6.82 -7.75	
Туре		802.11	n(HT40)	Test c	hannel		CH03		Polarity		Vertical
-	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Prea:	mp Aux dB	Level dBuV/m		ver imit	Remark
	1 2	2310.00 2389.99	25.88	27.96		37.56	20.00	41.	71 54.00 -12 10 54.00 -7	.29	Average Average
	Mark	Frequency MHz	_			Pre:	amp Aux			Over	
		2310.00 2389.99	-	dB 27.96 27.72	dB 5.43 5.53	37.56 37.4	6 20.00		74.00 -	21.39 13.42	Peak

Туре		802.11	n(HT40)	Test c	hannel	С	H09	F	Polarity	Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	p Aux dB	Level dBuV/m	Limit Over	
	1 2	2483.50	56.31		5.64	37.26 37.26		72.12 52.71	74.00 -1.8	8 Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit Over dBuV/m limit	Remark
	1	2483.50 2500.00		27.43 27.40		37.26 37.26	20.00		54.00 -2.27 54.00 -12.69	Average Average
Туре		802.11	n(HT40)	Test c	hannel	С	H09	F	Polarity	Vertical
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	np Aux dB	Level dBuV/m	Limit Ove	
	1	2483.50 2500.00	52.23 36.20	27.43 27.40	5.64	37.26 37.26		68.04 52.00	74.00 -5.9	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit Over dBuV/m limit	Remark
	1 2	2483.50 2500.00		27.43 27.40		37.26 37.26	20.00 20.00		54.00 -5.82 54.00 -12.62	0

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5.10. Radiated Spurious Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

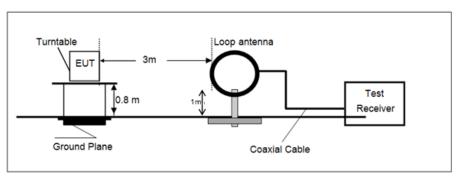
Frequency	Limit (dBuV/m)	Value
0.009 MHz ~0.49 MHz	2400/F(kHz) @300m	Quasi-peak
0.49 MHz ~ 1.705 MHz	24000/F(kHz) @30m	Quasi-peak
1.705 MHz ~30 MHz	30 @30m	Quasi-peak

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.

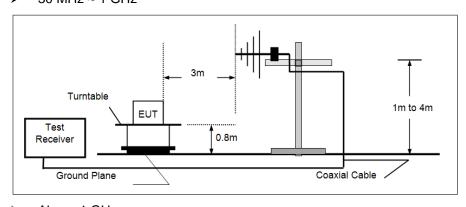
Frequency	Limit (dBuV/m @3m)	Value
30MHz~88MHz	40.00	Quasi-peak
88MHz~216MHz	43.50	Quasi-peak
216MHz~960MHz	46.00	Quasi-peak
960MHz~1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
Above IGHZ	74.00	Peak

TEST CONFIGURATION

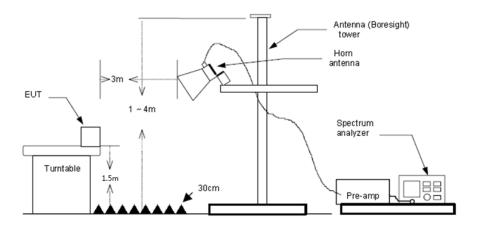
→ 9 kHz ~ 30 MHz



> 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.
- Use the following spectrum analyzer settings
 - 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 using the quasi-peak detector and reported.

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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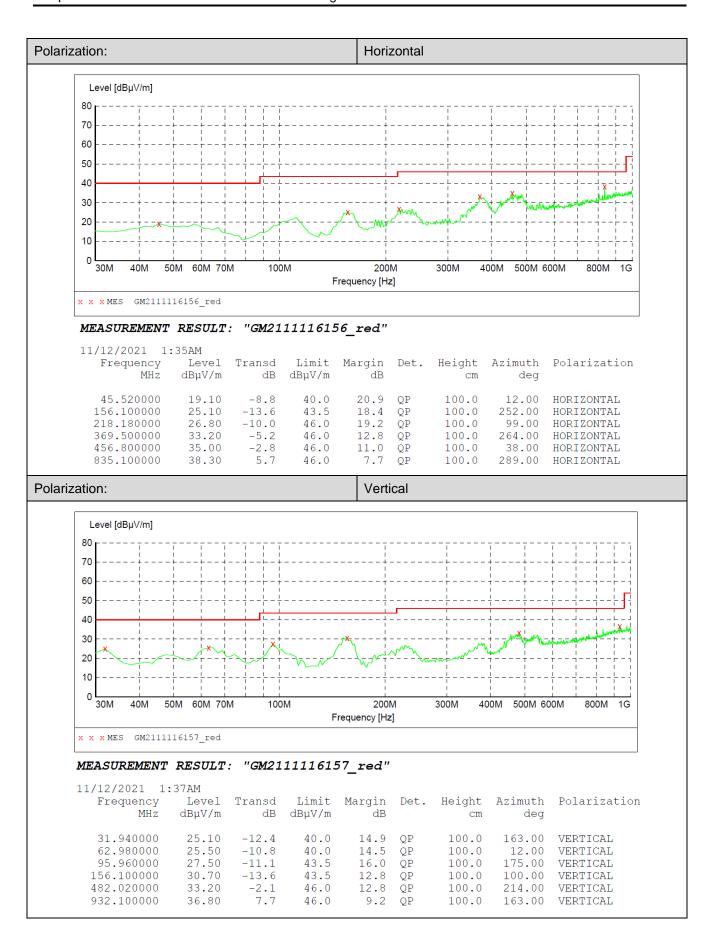
TEST DATA FOR 9 kHz ~ 30 MHz

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.

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TEST DATA FOR 1 GHz ~ 25 GHz

Type		802.11)	Test cl	hannel	С	H01		Polarity		Horizontal	
	1 4 2 4 3 6	Frequency MHz .024.52 .821.76 .730.19 .083.96	dBuV/m 36.92 43.74 34.18	Antenna dB 29.95 31.40 34.30 37.20	Cable dB 7.40 8.50 9.82 11.15	Prear dB 36.29 35.24 34.41 33.32	dB 0.00 0.00 0.00	Level dBuV/ 37.98 48.40 43.89 47.68	m dBuV/m 74.00 74.00 74.00	Over limit -36.02 -25.60 -30.11 -26.32	Remark : Peak Peak Peak Peak	
Туре		802.11b)	Test cl	hannel	С	H01		Polarity		Vertical	
	1 35 2 48 3 65	MHz 34.54 21.76 44.35	dBuV/m 38.42 2 44.67 3	Antenna dB 29.24 31.40 34.18 37.18	Cable dB 6.83 8.50 9.76 11.21	Prear dB 36.75 35.24 34.67 33.33	np Aux dB 0.00 0.00 0.00	Level dBuV/ 37.74 49.33 43.46 47.46		-36.26 -24.67 -30.54	t Peak Peak Peak	
Туре		802.11)	Test cl	hannel	С	H06		Polarity		Horizontal	
	Mark	Frequenc	cy Readi		tenna	Cable	Preamp dB	Leve dBuV				
	1 2	3579.82 4871.10	37.09 44.50	29	.36	6.88 8.63	36.88 35.16	36.45 49.37	74.00 74.00	-37.	.55 Peak .63 Peak	
	3	7172.41	31.09			10.01	33.98	43.51	74.00		.49 Peak	
	4	8022.46	32.22	37	.14	10.95	33.31	47.00	74.00	-27.	.00 Peak	
Туре		802.11k)	Test cl	hannel	C	H06		Polarity		Vertical	
	Mark 1 2 3	Frequen MHz 3472.12 4871.10 7357.33	dBu\ 37.44 45.23 33.12	//m 0 1 23 3 33 2 36	ntenna dB 8.99 1.40 6.51	Cable dB 6.76 8.63	dB 36.58 35.16 34.06	dBuV 36.61 50.10 45.72	/m dBuV/ 74.00 74.00 74.00	/m li 0 -37 0 -23 0 -28	mit .39 Peak .90 Peak .28 Peak	
	4	9370.08	33.39		9.26	11.82	36.58	47.89		0 -26	.11 Peak	
Туре		802.11b)	Test cl	hannel	C	H11		Polarity		Horizontal	
	Mark 1 2 3 4	Frequer MHz 3552.58 4920.96 6299.18 8063.40	dBu\ 38.17 40.76 33.55	//m (7 29 5 31 5 31	ntenna dB 9.31 1.44 3.00 7.20	Cable dB 6.85 8.73 9.69 11.08	dB 36.80 35.21 34.56	dBuV/ 37.53 45.72 41.68		m lim -36. -28. -32.	it 47 Peak 28 Peak 32 Peak	
Туре		802.11)	Test cl	hannel	С	H11		Polarity		Vertical	
	Mark	Frequen MHz	dBuV	//m c		Cable dB	dB	Leve dBuV	/m dBuV/	m lin		
	1 2 3 4	4076.07 4920.96 8104.56 11370.05	36.63 41.43 32.84 32.27	31 37		7.45 8.73 11.21 12.68	36.32 35.21 33.33 36.45	37.76 46.39 47.90 49.04	74.00 74.00	-27. -26.	24 Peak 61 Peak 10 Peak 96 Peak	

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Туре		802.11g		Test channel	I C	CH01		Polarity		Horizontal	
	Mark	Frequency MHz	Readin dBuV/		Cable dB	Preamp dB	Leve dBuV/		Ove lim		
	1	2875.99	37.23	28.60	6.11	37.36	34.58	74.00		42 Peak	
	2	4821.76	44.32	31.40	8.50	35.24	48.98	74.00	-25.	02 Peak	
	3	6251.26	33.56	32.90	9.72	34.59	41.59	74.00	-32.	41 Peak	
	4	10723.47	33.23	40.15	12.50	36.90	48.98	74.00	-25.	02 Peak	
Туре		802.11g		Test channel	I C	H01		Polarity		Vertical	
								1			
	Mark	Frequency	Readir		Cable				Ove lin		
	4	MHz	dBuV,		dB	dB	dBuV,				
	1	3525.56	38.02	29.20	6.82	36.71 35.24	37.33	74.00		.67 Peak	
	2	4821.76	42.14	31.40	8.50		46.80	74.00		.20 Peak	
	4	8063.40 10696.21	32.66 32.75	37.20 40.10	11.08 12.49	33.32 36.92	47.62 48.42	74.00 74.00		.38 Peak .58 Peak	
	4	10090.21	32.73	40.10	12.49	30.92	40.42	74.00	-25.	.30 Peak	
Type		802.11g		Test channel	l C	H06		Polarity		Horizontal	
	Mark	Frequency	Readir		Cable		Leve		0ve		
	_	MHz	dBuV,		dB	dB	dBuV/		lim		
	1	4045.06	36.70	29.99	7.42	36.31	37.80	74.00		20 Peak	
	2	4871.10	39.65	31.40	8.63	35.16	44.52			48 Peak	
	3	6886.15	32.55	34.77	10.18	34.16	43.34	74.00		66 Peak	
	4	11399.03	32.92	40.60	12.69	36.43	49.78	74.00	-24.	22 Peak	
Туре		802.11g		Test channel	I C	H06		Polarity		Vertical	
Туре											
Туре	Mark	802.11g Frequency		ng Antenna	Cable	Preamp	Leve	l Limit	0ve	r Remark	
Туре	Mark	Frequency MHz	dBuV/	ng Antenna /m dB	Cable	Preamp dB	dBuV/	l Limit m dBuV/m	lim	r Remark it	
Туре	1	Frequency	dBuV/ 37.04	ng Antenna /m dB 29.97	Cable dB 7.41	Preamp dB 36.30	dBuV/ 38.12	l Limit m dBuV/m 74.00	lim:	r Remark it 88 Peak	
Type		Frequency MHz	dBuV/	ng Antenna /m dB	Cable	Preamp dB 36.30 35.16	dBuV/ 38.12 45.76	l Limit m dBuV/m	lim:	r Remark it	
Type	1	Frequency MHz 4034.78	dBuV/ 37.04	ng Antenna /m dB 29.97	Cable dB 7.41	Preamp dB 36.30	dBuV/ 38.12	l Limit m dBuV/m 74.00	lim:	r Remark it 88 Peak 24 Peak	
Туре	1 2	Frequency MHz 4034.78 4871.10	dBuV/ 37.04 40.89	ng Antenna /m dB 29.97 31.40	Cable dB 7.41 8.63	Preamp dB 36.30 35.16	dBuV/ 38.12 45.76	l Limit m dBuV/m 74.00 74.00	lim: -35.3 -28.3 -29.0	r Remark it 88 Peak 24 Peak	
Type	1 2 3	Frequency MHz 4034.78 4871.10 7117.84	dBuV/ 37.04 40.89 32.68	Antenna /m dB 29.97 31.40 36.17	Cable dB 7.41 8.63 10.02	Preamp dB 36.30 35.16 33.93	dBuV/ 38.12 45.76 44.94	l Limit m dBuV/m 74.00 74.00 74.00	lim: -35.3 -28.3 -29.0	r Remark it 88 Peak 24 Peak 06 Peak	
	1 2 3	Frequency MHz 4034.78 4871.10 7117.84 11341.14	dBuV/ 37.04 40.89 32.68	ng Antenna /m dB 29.97 31.40 36.17 40.48	Cable dB 7.41 8.63 10.02	Preamp dB 36.30 35.16 33.93 36.46	dBuV/ 38.12 45.76 44.94	l Limit m dBuV/m 74.00 74.00 74.00 74.00	lim: -35.3 -28.3 -29.0	r Remark it 88 Peak 24 Peak 06 Peak 03 Peak	
	1 2 3	Frequency MHz 4034.78 4871.10 7117.84 11341.14	dBuV/ 37.04 40.89 32.68 32.28	ng Antenna /m dB 29.97 31.40 36.17 40.48	Cable dB 7.41 8.63 10.02	Preamp dB 36.30 35.16 33.93 36.46	dBuV/ 38.12 45.76 44.94 48.97	l Limit m dBuV/m 74.00 74.00 74.00 74.00 Polarity	lim -35.3 -28.3 -29.0 -25.0	r Remark it 88 Peak 24 Peak 06 Peak 03 Peak Horizontal	
	1 2 3 4	Frequency MHz 4034.78 4871.10 7117.84 11341.14 802.11g	dBuV/ 37.04 40.89 32.68 32.28	ng Antenna /m dB 29.97 31.40 36.17 40.48 Test channel	Cable dB 7.41 8.63 10.02 12.67	Preamp dB 36.30 35.16 33.93 36.46	dBuV/ 38.12 45.76 44.94 48.97	l Limit m dBuV/m 74.00 74.00 74.00 74.00 Polarity	lim: -35.3 -28.3 -29.0 -25.0	r Remark it 88 Peak 24 Peak 06 Peak 03 Peak Horizontal	
	1 2 3 4	Frequency MHz 4034.78 4871.10 7117.84 11341.14 802.11g Frequency	dBuV/ 37.04 40.89 32.68 32.28	mg Antenna /m dB 29.97 31.40 36.17 40.48 Test channel	Cable dB 7.41 8.63 10.02 12.67	Preamp dB 36.30 35.16 33.93 36.46 CH11	dBuV/ 38.12 45.76 44.94 48.97	l Limit m dBuV/m 74.00 74.00 74.00 74.00 74.00 Polarity	lim: -35.8 -28.0 -29.0 -25.0 Ove	r Remark it 88 Peak 24 Peak 06 Peak 03 Peak Horizontal	
	1 2 3 4	Frequency MHz 4034.78 4871.10 7117.84 11341.14 802.11g Frequency MHz	dBuV/ 37.04 40.89 32.68 32.28 	mg Antenna /m dB 29.97 31.40 36.17 40.48 Test channel ng Antenna /m dB 28.92	Cable dB 7.41 8.63 10.02 12.67	Preamp dB 36.30 35.16 33.93 36.46 CH11	dBuV/ 38.12 45.76 44.94 48.97 LevendBuV,	l Limit m dBuV/m 74.00 74.00 74.00 74.00 74.00 Polarity =l Limit /m dBuV/m 74.00	lim: -35.6 -28.6 -29.0 -25.0 Ove lin	r Remark it 88 Peak 24 Peak 06 Peak 03 Peak Horizontal	
	1 2 3 4	Frequency MHz 4034.78 4871.10 7117.84 11341.14 802.11g Frequency MHz 3080.60	dBuV/ 37.04 40.89 32.68 32.28 Readi dBuV 38.66	mg Antenna /m dB 29.97 31.40 36.17 40.48 Test channel ng Antenna /m dB 28.92 31.47	Cable dB 7.41 8.63 10.02 12.67 Cable dB 6.28	Preamp dB 36.30 35.16 33.93 36.46 CH11	dBuV/ 38.12 45.76 44.94 48.97 LevendBuV, 36.37	l Limit m dBuV/m 74.00 74.00 74.00 74.00 Polarity =l Limit /m dBuV/m 74.00 74.00	lims -35.7 -28.0 -29.0 -25.0 Ove lin -37.0	r Remark it 88 Peak 24 Peak 06 Peak 03 Peak Horizontal er Remark mit	
	1 2 3 4	Frequency MHz 4034.78 4871.10 7117.84 11341.14 802.11g Frequency MHz 3080.60 4933.50	dBuV/ 37.04 40.89 32.68 32.28 	mg Antenna /m dB 29.97 31.40 36.17 40.48 Test channel mg Antenna /m dB 28.92 31.47 34.77	Cable dB 7.41 8.63 10.02 12.67 Cable dB 6.28 8.75 10.18	Preamp dB 36.30 35.16 33.93 36.46 CH11 Preamp dB 37.49 35.20 34.16	dBuV/ 38.12 45.76 44.94 48.97 LevendBuV, 36.37 40.74 43.18	l Limit m dBuV/m 74.00 74.00 74.00 74.00 Polarity =l Limit /m dBuV/m 74.00 74.00	lim: -35.6 -28.7 -29.0 -25.0 Over	r Remark it 88 Peak 24 Peak 06 Peak 03 Peak Horizontal er Remark mit .63 Peak .26 Peak	
	1 2 3 4 	Frequency MHz 4034.78 4871.10 7117.84 11341.14 802.11g Frequency MHz 3080.60 4933.50 6886.15	dBuV/ 37.04 40.89 32.68 32.28 Readi dBuV 38.66 35.72 32.39	mg Antenna /m dB 29.97 31.40 36.17 40.48 Test channel mg Antenna /m dB 28.92 31.47 34.77	Cable dB 7.41 8.63 10.02 12.67 Cable dB 6.28 8.75 10.18 11.08	Preamp dB 36.30 35.16 33.93 36.46 CH11 Preamp dB 37.49 35.20 34.16	dBuV/ 38.12 45.76 44.94 48.97 LevendBuV, 36.37 40.74 43.18	l Limit m dBuV/m 74.00 74.00 74.00 74.00 Polarity =l Limit /m dBuV/m 74.00 74.00 74.00 74.00	lim: -35.6 -28.7 -29.0 -25.0 Over	r Remark it 88 Peak 24 Peak 06 Peak 03 Peak Horizontal er Remark mit .63 Peak .26 Peak	
Туре	1 2 3 4	Frequency MHz 4034.78 4871.10 7117.84 11341.14 802.11g Frequency MHz 3080.60 4933.50 6886.15 8063.40 802.11g	dBuV/ 37.04 40.89 32.68 32.28 Readi dBuV 38.66 35.72 32.39 32.76	mg Antenna /m dB 29.97 31.40 36.17 40.48 Test channel mg Antenna /m dB 28.92 31.47 34.77 37.20 Test channel	Cable d8 7.41 8.63 10.02 12.67 Cable dB 6.28 8.75 10.18 11.08	Preamp dB 36.30 35.16 33.93 36.46 CH11 Preamp dB 37.49 35.20 34.16 33.32	dBuV/ 38.12 45.76 44.94 48.97 LevendBuV, 36.37 40.74 43.18 47.72	l Limit m dBuV/m 74.00 74.00 74.00 74.00 Polarity =1 Limit /m dBuV/m 74.00 74.00 74.00 74.00 74.00 74.00 Polarity	lim -35.3 -28.3 -29.0 -25.0 Ove lin -37.3 -30.3 -26.3	r Remark it 88 Peak 24 Peak 06 Peak 03 Peak Horizontal er Remark mit .63 Peak .26 Peak .82 Peak .28 Peak	
Туре	1 2 3 4 	Frequency MHz 4034.78 4871.10 7117.84 11341.14 802.11g Frequency MHz 3080.60 4933.50 6886.15 8063.40 802.11g	dBuV/ 37.04 40.89 32.68 32.28 Readi dBuV 38.66 35.72 32.39 32.76	mg Antenna /m dB 29.97 31.40 36.17 40.48 Test channel mg Antenna /m dB 28.92 31.47 34.77 37.20 Test channel	Cable dB 7.41 8.63 10.02 12.67 Cable dB 6.28 8.75 10.18 11.08	Preamp dB 36.30 35.16 33.93 36.46 CH11 Preamp dB 37.49 35.20 34.16 33.32 CH11	dBuV/ 38.12 45.76 44.94 48.97 Leve dBuV, 36.37 40.74 43.18 47.72	l Limit m dBuV/m 74.00 74.00 74.00 74.00 Polarity =1 Limit /m dBuV/m 74.00 74.00 74.00 74.00 74.00 74.00 Polarity	lim35.6 -2829.0 -25.0 Over lin37333026.	r Remark it 88 Peak 24 Peak 06 Peak 03 Peak Horizontal er Remark 63 Peak 63 Peak 64 Peak 62 Peak 68 Peak 74 Peak 68 Peak 68 Peak 68 Peak 68 Peak	
Туре	1 2 3 4	Frequency MHz 4034.78 4871.10 7117.84 11341.14 802.11g Frequency MHz 3080.60 4933.50 6886.15 8063.40 802.11g Frequency MHz MHz	dBuV/ 37.04 40.89 32.68 32.28 Readi dBuV 38.66 35.72 32.39 32.76 Readin dBuV/	mg Antenna /m dB 29.97 31.40 36.17 40.48 Test channel mg Antenna /m dB 28.92 31.47 34.77 37.20 Test channel	Cable dB 7.41 8.63 10.02 12.67 Cable dB 6.28 8.75 10.18 11.08	Preamp dB 36.30 35.16 33.93 36.46 CH11 Preamp dB 37.49 35.20 34.16 33.32 CH11	dBuV/ 38.12 45.76 44.94 48.97 Leve dBuV/ 36.37 40.74 43.18 47.72 Leve dBuV/	l Limit m dBuV/m 74.00 74.00 74.00 74.00 74.00 Polarity =1 Limit /m dBuV/m 74.00 74.00 74.00 74.00 74.00 Polarity	lim35.6 -2829.0 -25.0 Over lin37333026.	r Remark it 88 Peak 24 Peak 06 Peak 03 Peak Horizontal er Remark mit .63 Peak .26 Peak .82 Peak .28 Peak Vertical	
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 4034.78 4871.10 7117.84 11341.14 802.11g Frequency MHz 3080.60 4933.50 6886.15 8063.40 802.11g Frequency MHz 3402.13	dBuV/ 37.04 40.89 32.68 32.28 Readi dBuV 38.66 35.72 32.39 32.76 Readin dBuV/ 38.23	mg Antenna /m dB 29.97 31.40 36.17 40.48 Test channel mg Antenna /m dB 28.92 31.47 34.77 37.20 Test channel mg Antenna /m dB 28.61	Cable dB 7.41 8.63 10.02 12.67 Cable dB 6.28 8.75 10.18 11.08	Preamp dB 36.30 35.16 33.93 36.46 CH11 Preamp dB 37.49 35.20 34.16 33.32 CH11	dBuV/ 38.12 45.76 44.94 48.97 Leve dBuV/ 36.37 40.74 43.18 47.72 Leve dBuV/ 36.79	l Limit m dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit dBuV/m 74.00 74.00 74.00 74.00 Polarity	lim35.6 -2829.0 -25.0 Over lim37333026.	r Remark it 88 Peak 24 Peak 06 Peak 03 Peak Horizontal er Remark mit .63 Peak .26 Peak .82 Peak .28 Peak Vertical er Remark	
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 4034.78 4871.10 7117.84 11341.14 802.11g Frequency MHz 3080.60 4933.50 6886.15 8063.40 802.11g Frequency MHz 3402.13 4933.50	dBuV/ 37.04 40.89 32.68 32.28 Readi dBuV 38.66 35.72 32.39 32.76 Readin dBuV/	mg Antenna /m dB 29.97 31.40 36.17 40.48 Test channel mg Antenna /m dB 28.92 31.47 34.77 37.20 Test channel mg Antenna /m dB 28.61 31.47	Cable dB 7.41 8.63 10.02 12.67 Cable dB 6.28 8.75 10.18 11.08 Cable dB 6.70 8.75	Preamp dB 36.30 35.16 33.93 36.46 CH11 Preamp dB 37.49 35.20 34.16 33.32 CH11 Preamp dB 36.75 35.20	dBuV/ 38.12 45.76 44.94 48.97 Leve dBuV/ 36.37 40.74 43.18 47.72 Leve dBuV/ 36.79 41.70	l Limit m dBuV/m 74.00 74.00 74.00 74.00 Polarity El Limit /m dBuV/m 74.00 74.00 74.00 Polarity Polarity	lim35.6 -2829.0 -25.0 Over lim37333026. Over lim3732.	r Remark it 88 Peak 24 Peak 06 Peak 03 Peak Horizontal er Remark mit .63 Peak .26 Peak .82 Peak .28 Peak Vertical er Remark mit 21 Peak 30 Peak	
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 4034.78 4871.10 7117.84 11341.14 802.11g Frequency MHz 3080.60 4933.50 6886.15 8063.40 802.11g Frequency MHz 3402.13	dBuV/ 37.04 40.89 32.68 32.28 Readi dBuV 38.66 35.72 32.39 32.76 Readin dBuV/ 38.23	mg Antenna /m dB 29.97 31.40 36.17 40.48 Test channel mg Antenna /m dB 28.92 31.47 34.77 37.20 Test channel mg Antenna /m dB 28.61 31.47	Cable dB 7.41 8.63 10.02 12.67 Cable dB 6.28 8.75 10.18 11.08 Cable dB 6.70	Preamp dB 36.30 35.16 33.93 36.46 CH11 Preamp dB 37.49 35.20 34.16 33.32 CH11 Preamp dB 36.75 35.20	dBuV/ 38.12 45.76 44.94 48.97 Leve dBuV/ 36.37 40.74 43.18 47.72 Leve dBuV/ 36.79	l Limit m dBuV/m 74.00 74.00 74.00 74.00 Polarity El Limit /m dBuV/m 74.00 74.00 74.00 Polarity Polarity Limit m dBuV/m 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00	lim35.6 -28.1 -29.0 -25.0 Over lim37333026. Over lim373231.	r Remark it 88 Peak 24 Peak 06 Peak 03 Peak Horizontal er Remark mit .63 Peak .26 Peak .82 Peak .28 Peak Vertical er Remark	

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Туре		802.11n(H	HT20)	Test channe	1 (CH01		Polarity		Horizontal
	Mark	Frequency	Readin		Cable dB	Preamp dB	Leve		Over limi	
	1	MHz 3552.58	dBuV/ 37.85	m db 29.31	6.85	36.80	dBuV/ 37.21	m dBuV/m 74.00		.t '9 Peak
	2	4834.05	44.16		8.53	35.20	48.89	74.00		.1 Peak
	3	8022.46	32.80	37.14	10.95	33.31	47.58	74.00		2 Peak
	4	11341.14	32.38	40.48	12.67	36.46	49.07	74.00		3 Peak
_		200 11 (1						5 1 2		
Туре		802.11n(F	1120)	Test channe	1 (CH01		Polarity		Vertical
	Mark	Frequency	Readin	ng Antenna	Cable	Preamp	Leve	l Limit	0ve	r Remark
	Hurk	MHz	dBuV/		dB	dB	dBuV/		lim	
	1	3681.47	37.52	29.40	6.99	37.04	36.87	74.00		13 Peak
	2	4821.76	43.13	31.40	8.50		47.79	74.00		21 Peak
	3	8022.46	32.99	37.14	10.95	33.31	47.77	74.00		23 Peak
	4	11341.14	32.86	40.48	12.67	36.46	49.55	74.00		45 Peak
Туре		802.11n(F	HT20)	Test channe	1 (CH06		Polarity		Horizontal
	Mark	Frequency	Readin	g Antenna	Cable	Preamp	Leve	l Limit	0ver	Remark
		MHz	dBuV/		dB	dB	dBuV/		lim	
	1	4004.08	36.83	29.91	7.38	36.34	37.78	74.00	-36.2	22 Peak
	2	4871.10	41.60	31.40	8.63	35.16	46.47	74.00	-27.5	3 Peak
	3	8042.90	32.95	37.19	11.02	33.31	47.85	74.00		L5 Peak
	4	10888.51	33.03	40.57	12.52	36.76	49.36	74.00	-24.6	54 Peak
Туре		802.11n(F	HT20)	Test channe	1 (CH06		Polarity		Vertical
Туре										
Туре	Mark	Frequency	Readir	ng Antenna	Cable	Preamp	Leve	l Limit	Over	r Remark
Туре		Frequency MHz	Readir dBuV/	ng Antenna 'm dB	Cable	Preamp dB	dBuV/	l Limit m dBuV/m	lim	r Remark it
Туре	1	Frequency MHz 3834.51	Readir dBuV/ 37.20	ng Antenna /m dB 29.74	Cable dB 7.18	Preamp dB 36.93	dBuV/ 37.19	l Limit m dBuV/m 74.00	lim: -36.8	Remark it 31 Peak
Туре	1 2	Frequency MHz 3834.51 4883.52	Readir dBuV/ 37.20 40.14	ng Antenna 'm dB 29.74 31.40	Cable dB 7.18 8.67	Preamp dB 36.93 35.18	dBuV/ 37.19 45.03	l Limit m dBuV/m 74.00	lim: -36.8 -28.9	Remark it 31 Peak 97 Peak
Туре	1 2 3	Frequency MHz 3834.51 4883.52 7045.74	Readir dBuV/ 37.20 40.14 32.46	ng Antenna 'm dB 29.74 31.40 35.67	Cable dB 7.18 8.67 10.06	Preamp dB 36.93 35.18 33.99	dBuV/ 37.19 45.03 44.20	l Limit m dBuV/m 74.00 74.00 74.00	lim: -36.8 -28.9 -29.8	r Remark it 31 Peak 97 Peak
Туре	1 2	Frequency MHz 3834.51 4883.52	Readir dBuV/ 37.20 40.14	ng Antenna 'm dB 29.74 31.40	Cable dB 7.18 8.67	Preamp dB 36.93 35.18	dBuV/ 37.19 45.03	l Limit m dBuV/m 74.00	lim: -36.8 -28.9 -29.8	Remark it 31 Peak 97 Peak
Туре	1 2 3	Frequency MHz 3834.51 4883.52 7045.74	Readir dBuV/ 37.20 40.14 32.46 33.03	ng Antenna 'm dB 29.74 31.40 35.67	Cable dB 7.18 8.67 10.06 12.51	Preamp dB 36.93 35.18 33.99	dBuV/ 37.19 45.03 44.20	l Limit m dBuV/m 74.00 74.00 74.00	lim: -36.8 -28.9 -29.8	r Remark it 31 Peak 97 Peak
	1 2 3 4	Frequency MHz 3834.51 4883.52 7045.74 10805.68	Readir dBuV/ 37.20 40.14 32.46 33.03	ng Antenna /m dB 29.74 31.40 35.67 40.32 Test channe	Cable dB 7.18 8.67 10.06 12.51	Preamp dB 36.93 35.18 33.99 36.83	dBuV/ 37.19 45.03 44.20 49.03	l Limit m dBuV/m 74.00 74.00 74.00 74.00 Polarity	lim: -36.8 -28.9 -29.8 -24.9	Remark it 31 Peak 37 Peak 30 Peak 37 Peak Horizontal
	1 2 3	Frequency MHz 3834.51 4883.52 7045.74 10805.68 802.11n(H	Readir dBuV/ 37.20 40.14 32.46 33.03 HT20)	ng Antenna 'm dB 29.74 31.40 35.67 40.32 Test channe	Cable dB 7.18 8.67 10.06 12.51	Preamp dB 36.93 35.18 33.99 36.83	dBuV/ 37.19 45.03 44.20 49.03	l Limit m dBuV/m 74.00 74.00 74.00 74.00 74.00	lim: -36.8 -28.9 -29.8 -24.9	Remark it 31 Peak 97 Peak 98 Peak 99 Peak Horizontal
	1 2 3 4 Mark	Frequency MHz 3834.51 4883.52 7045.74 10805.68 802.11n(F	Readir dBuV/ 37.20 40.14 32.46 33.03 HT20)	mg Antenna /m dB 29.74 31.40 35.67 40.32 Test channe	Cable dB 7.18 8.67 10.06 12.51	Preamp dB 36.93 35.18 33.99 36.83 CH11	dBuV/ 37.19 45.03 44.20 49.03 Leve	l Limit m dBuV/m 74.00 74.00 74.00 74.00 74.00 Polarity l Limit m dBuV/m	lim: -36.8 -28.9 -29.8 -24.9	Remark it 31 Peak 97 Peak 90 Peak 90 Peak Horizontal
	1 2 3 4 Mark	Frequency MHz 3834.51 4883.52 7045.74 10805.68 802.11n(F	Readir dBuV/ 37.20 40.14 32.46 33.03 HT20) Readin dBuV/ 37.30	mg Antenna /m dB 29.74 31.40 35.67 40.32 Test channe mg Antenna /m dB 29.91	Cable dB 7.18 8.67 10.06 12.51 Cable dB 7.38	Preamp dB 36.93 35.18 33.99 36.83 CH11 Preamp dB 36.34	dBuV/ 37.19 45.03 44.20 49.03 Leve dBuV/ 38.25	l Limit m dBuV/m 74.00 74.00 74.00 74.00 74.00 Polarity l Limit m dBuV/m 74.00	lim: -36.8 -28.9 -29.8 -24.9 Over	Remark it 31 Peak 97 Peak 98 Peak 99 Peak 99 Peak Horizontal 99 Remark it
	1 2 3 4 Mark	Frequency MHz 3834.51 4883.52 7045.74 10805.68 802.11n(F	Readir dBuV/ 37.20 40.14 32.46 33.03 HT20) Readin dBuV/ 37.30 38.22	mg Antenna /m dB 29.74 31.40 35.67 40.32 Test channe ag Antenna m dB 29.91 31.44	Cable dB 7.18 8.67 10.06 12.51 Cable dB 7.38 8.73	Preamp dB 36.93 35.18 33.99 36.83 CH11 Preamp dB 36.34 35.21	dBuV/ 37.19 45.03 44.20 49.03 Leve dBuV/ 38.25 43.18	l Limit m dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit m dBuV/m 74.00 74.00 74.00	lim: -36.8 -28.9 -29.8 -24.9 Over lim: -35.6 -30.8	Remark Remark Peak Peak Peak Peak Rorizontal Remark Remark Peak Peak
	1 2 3 4 Mark	Frequency MHz 3834.51 4883.52 7045.74 10805.68 802.11n(F	Readir dBuV/ 37.20 40.14 32.46 33.03 HT20) Readin dBuV/ 37.30	mg Antenna /m dB 29.74 31.40 35.67 40.32 Test channe ag Antenna m dB 29.91 31.44	Cable dB 7.18 8.67 10.06 12.51 Cable dB 7.38	Preamp dB 36.93 35.18 33.99 36.83 CH11 Preamp dB 36.34 35.21 33.91	dBuV/ 37.19 45.03 44.20 49.03 Leve dBuV/ 38.25	l Limit m dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit m dBuV/m 74.00 74.00 74.00	lim: -36.8 -28.9 -29.8 -24.9 Over lim: -35.0 -30.8 -29.3	Remark Remark Peak Peak Peak Peak Rorizontal Remark Remark Peak Peak
	1 2 3 4 Mark	Frequency MHz 3834.51 4883.52 7045.74 10805.68 802.11n(F Frequency MHz 4004.08 4920.96 7099.75	Readir dBuV/ 37.20 40.14 32.46 33.03 HT20) Readin dBuV/ 37.30 38.22 32.45 32.75	mg Antenna /m dB 29.74 31.40 35.67 40.32 Test channe mg Antenna mdB 29.91 31.44 36.10	Cable d8 7.18 8.67 10.06 12.51 Cable d8 7.38 8.73 10.03 12.52	Preamp dB 36.93 35.18 33.99 36.83 CH11 Preamp dB 36.34 35.21 33.91	dBuV/ 37.19 45.03 44.20 49.03 Leve dBuV/ 38.25 43.18 44.67	l Limit m dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit m dBuV/m 74.00 74.00 74.00 74.00	lim: -36.8 -28.9 -29.8 -24.9 Over lim: -35.0 -30.8 -29.3	Remark Remark Peak Peak Peak Peak Remark
Type	1 2 3 4 Mark 1 2 3 4	Frequency MHz 3834.51 4883.52 7045.74 10805.68 802.11n(F Frequency MHz 4004.08 4920.96 7099.75 10916.26 802.11n(F	Readir dBuV/ 37.20 40.14 32.46 33.03 HT20) Readin dBuV/ 37.30 38.22 32.45 32.75	mg Antenna /m dB 29.74 31.40 35.67 40.32 Test channe mg Antenna mdB 29.91 31.44 36.10 40.60 Test channe	Cable d8 7.18 8.67 10.06 12.51 Cable dB 7.38 8.73 10.03 12.52	Preamp dB 36.93 35.18 33.99 36.83 CH11 Preamp dB 36.34 35.21 33.91 36.74 CH11	dBuV/ 37.19 45.03 44.20 49.03 Leve dBuV/ 38.25 43.18 44.67 49.13	l Limit m dBuV/m 74.00 74.00 74.00 74.00 Polarity l Limit m dBuV/m 74.00 74.00 74.00 74.00 74.00 74.00 Polarity	lim: -36.8 -28.9 -29.8 -24.9 Over lim: -35.7 -30.8 -29.3 -24.8	Remark Remark Peak Peak Peak Peak Remark Remark
Type	1 2 3 4 Mark	Frequency MHz 3834.51 4883.52 7045.74 10805.68 802.11n(F Frequency MHz 4004.08 4920.96 7099.75 10916.26 802.11n(F	Readir dBuV/ 37.20 40.14 32.46 33.03 HT20) Readin dBuV/ 37.30 38.22 32.45 32.75	mg Antenna /m dB 29.74 31.40 35.67 40.32 Test channe m dB 29.91 31.44 36.10 40.60 Test channe	Cable dB 7.18 8.67 10.06 12.51 Cable dB 7.38 8.73 10.03 12.52 Cable	Preamp dB 36.93 35.18 33.99 36.83 CH11 Preamp dB 36.34 35.21 33.91 36.74 CH11 Preamp	dBuV/ 37.19 45.03 44.20 49.03 Leve dBuV/ 38.25 43.18 44.67 49.13	Polarity Polarity Polarity Polarity 1 Limit M dBuV/m 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 Polarity	lim: -36.8 -28.9 -29.8 -24.9 Over lim: -35.7 -30.8 -29.3 -24.8	Remark Remark Peak Peak Peak Peak Remark
Type	1 2 3 4 Mark 1 2 3 4	Frequency MHz 3834.51 4883.52 7045.74 10805.68 802.11n(F Frequency MHz 4004.08 4920.96 7099.75 10916.26 802.11n(F	Readir dBuV/ 37.20 40.14 32.46 33.03 HT20) Readin dBuV/ 37.30 38.22 32.45 32.75 HT20)	mg Antenna /m dB 29.74 31.40 35.67 40.32 Test channe m dB 29.91 31.44 36.10 40.60 Test channe g Antenna m dB	Cable dB 7.18 8.67 10.06 12.51 Cable dB 7.38 8.73 10.03 12.52 Cable dB	Preamp dB 36.93 35.18 33.99 36.83 CH11 Preamp dB 36.34 35.21 33.91 36.74 CH11 Preamp dB	dBuV/ 37.19 45.03 44.20 49.03 Leve dBuV/ 38.25 43.18 44.67 49.13	Polarity Polarity Polarity 1 Limit m dBuV/m 74.00 74.00 74.00 Polarity 1 Limit m dBuV/m 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 Polarity	lim: -36.8 -28.9 -29.8 -24.9 Over lim: -35.7 -24.8 Over lim:	Remark Remark Peak Peak Peak Peak Remark
Type	1 2 3 4 Mark 1 2 3 4	Frequency MHz 3834.51 4883.52 7045.74 10805.68 802.11n(F) Frequency MHz 4004.08 4920.96 7099.75 10916.26 802.11n(F) Frequency MHz 3579.82	Readir dBuV/ 37.20 40.14 32.46 33.03 HT20) Readin dBuV/ 37.30 38.22 32.45 32.75 HT20) Readin dBuV/ 38.21	mg Antenna /m dB 29.74 31.40 35.67 40.32 Test channe mg Antenna mdB 29.91 31.44 36.10 40.60 Test channe g Antenna m dB 29.36	Cable dB 7.18 8.67 10.06 12.51 Cable dB 7.38 8.73 10.03 12.52 Cable dB 6.88	Preamp dB 36.93 35.18 33.99 36.83 CH11 Preamp dB 36.34 35.21 33.91 36.74 CH11 Preamp dB 36.88	dBuV/ 37.19 45.03 44.20 49.03 Leve dBuV/ 38.25 43.18 44.67 49.13 Leve dBuV/ 37.57	Polarity Polarity Polarity 1 Limit m dBuV/m 74.00 74.00 74.00 Polarity 1 Limit m dBuV/m 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00	lim: -36.8 -28.9 -29.8 -24.9 Over lim: -35.7 -24.8 Over lim: -36.4	Remark The Peak Peak Peak Peak Peak Peak Peak Peak
Type	1 2 3 4 Mark Mark 1 2 3 4	Frequency MHz 3834.51 4883.52 7045.74 10805.68 802.11n(F) Frequency MHz 4004.08 4920.96 7099.75 10916.26 802.11n(F) Frequency MHz 3579.82 4920.96	Readir dBuV/ 37.20 40.14 32.46 33.03 HT20) Readin dBuV/ 37.30 38.22 32.45 32.75 HT20) Readin dBuV/ 38.21 38.21	mg Antenna /m dB 29.74 31.40 35.67 40.32 Test channe m dB 29.91 31.44 36.10 40.60 Test channe m dB 29.36 31.44	Cable dB 7.18 8.67 10.06 12.51 Cable dB 7.38 8.73 10.03 12.52 Cable dB 6.88 8.73	Preamp dB 36.93 35.18 33.99 36.83 CH11 Preamp dB 36.34 35.21 33.91 36.74 CH11 Preamp dB 36.88 35.21	dBuV/ 37.19 45.03 44.20 49.03 Leve dBuV/ 38.25 43.18 44.67 49.13 Leve dBuV/ 37.57 42.97	Polarity Polarity Polarity 1 Limit m dBuV/m 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00	lim: -36.8 -28.9 -29.8 -24.9 Over lim: -35.7 -24.8 Over lim: -36.4 -31.6	Remark 11 11 12 13 11 12 14 13 12 14 14 15 16 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18
Type	1 2 3 4 Mark 1 2 3 4	Frequency MHz 3834.51 4883.52 7045.74 10805.68 802.11n(F) Frequency MHz 4004.08 4920.96 7099.75 10916.26 802.11n(F) Frequency MHz 3579.82	Readir dBuV/ 37.20 40.14 32.46 33.03 HT20) Readin dBuV/ 37.30 38.22 32.45 32.75 HT20) Readin dBuV/ 38.21	mg Antenna /m dB 29.74 31.40 35.67 40.32 Test channe mg Antenna mdB 29.91 31.44 36.10 40.60 Test channe g Antenna m dB 29.36	Cable dB 7.18 8.67 10.06 12.51 Cable dB 7.38 8.73 10.03 12.52 Cable dB 6.88	Preamp dB 36.93 35.18 33.99 36.83 CH11 Preamp dB 36.34 35.21 33.91 36.74 CH11 Preamp dB 36.88	dBuV/ 37.19 45.03 44.20 49.03 Leve dBuV/ 38.25 43.18 44.67 49.13 Leve dBuV/ 37.57	Polarity Polarity Polarity 1 Limit m dBuV/m 74.00 74.00 74.00 Polarity 1 Limit m dBuV/m 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00	lim: -36.8 -28.9 -29.8 -24.9 Over lim: -35.7 -24.8 Over lim: -36.4 -31.6	Remark 11 11 12 13 11 12 14 13 11 14 14 15 16 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18

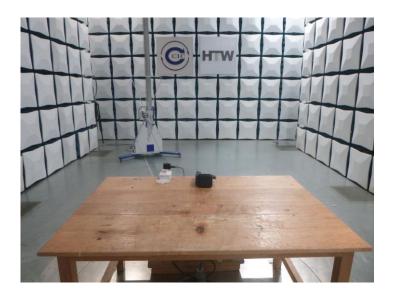
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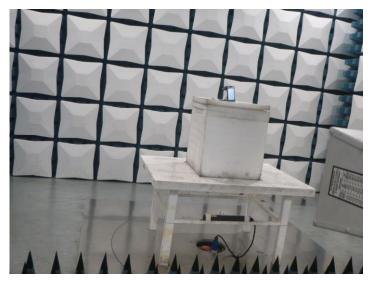
Туре		802.11n(H	HT40)	Test channe	ı	CH03		Polarity		Horizontal	
	Mark	Frequency	Readi	ng Antenna	Cabl	e Preamp	Leve	l Limit	0ve	r Remark	
	T IOT IC	MHz	dBuV,		dB	dB	dBuV/		lim		
	1	3525.56	37.96		6.82		37.27	74.00		73 Peak	
	2	4846.37	39.38		8.57		44.18	74.00		32 Peak	
	3	7961.43	32.89		10.87		47.39			51 Peak	
	4	10833.22	32.39		12.51		48.49	74.00		51 Peak	
Туре		802.11n(H		Test channe		CH03		Polarity		Vertical	
71		`	,					<u>, </u>			
	Mark	Frequency	Readi	ng Antenna	Cabl	e Preamp	Leve	el Limit	Over	r Remark	
	TIGH K	MHz	dBuV,		dB	dB	dBuV/		lim		
	1	4149.35	36.50	30.00	7.57		37.82	74.00		18 Peak	
	2	4846.37	40.67	31.40	8.57		45.47	74.00		53 Peak	
	3	8002.06	33.14	37.10	10.91		47.84	74.00		16 Peak	
	4	10888.51	32.92	40.57	12.52		49.25	74.00		75 Peak	
	+	10000.51	32.92	40.57	12.52	36.76	49.25	74.00	-24.	75 PEAK	
Туре		802.11n(H	HT40)	Test channe	I	CH06		Polarity		Horizontal	
	Mark	Frequency	Readir		Cabl		Leve		Over		
		MHz	dBuV/		dB	dB	dBuV/		lim:		
	1	4343.90	37.11	30.48	7.90		39.29	74.00		71 Peak	
	2	4871.10	39.86	31.40	8.63		44.73	74.00	-29.2	27 Peak	
	3	7721.91	33.33	36.44	10.60	33.16	47.21	74.00		79 Peak	
	4	10888.51	32.42	40.57	12.52	36.76	48.75	74.00	-25.2	25 Peak	
_											
Туре		802.11n(H	HT40)	Test channe	ı	CH06		Polarity		Vertical	
Туре		802.11n(F	HT40)	Test channe	1	CH06		Polarity		Vertical	
Type	Mark						Leve		 Over		
Туре	Mark	802.11n(Frequency		ng Antenna			Leve dBuV/	el Limit	Over	r Remark	
Туре	Mark 1	Frequency MHz	Readir dBuV/	ng Antenna /m dB	Cabl	e Preamp dB	dBuV/	l Limit /m dBuV/m	limi	r Remark	
Туре		Frequency	Readir	ng Antenna /m dB 28.80	Cabl	e Preamp dB 36.89		el Limit	lim: -36.9	r Remark it	
Туре	1 2	Frequency MHz 3225.04 4871.10	Readir dBuV/ 39.03 38.46	ng Antenna 'm dB 28.80 31.40	Cable dB 6.49 8.63	e Preamp dB 36.89 35.16	dBuV/ 37.43 43.33	l Limit 'm dBuV/m 74.00 74.00	lim: -36.9 -30.0	r Remark it 57 Peak 57 Peak	
Туре	1	Frequency MHz 3225.04	Readir dBuV/ 39.03 38.46 32.61	ng Antenna /m dB 28.80 31.40 37.20	Cable dB 6.49 8.63	Preamp dB 36.89 35.16 33.32	dBuV/ 37.43 43.33 47.57	Limit m dBuV/m 74.00	lim: -36.9 -30.0 -26.4	Remark it 57 Peak 57 Peak 43 Peak	
Туре	1 2 3	Frequency MHz 3225.04 4871.10 8063.40	Readir dBuV/ 39.03 38.46	ng Antenna 'm dB 28.80 31.40	Cable dB 6.49 8.63	Preamp dB 36.89 35.16 33.32	dBuV/ 37.43 43.33	Limit /m dBuV/m 74.00 74.00 74.00	lim: -36.9 -30.0 -26.4	r Remark it 57 Peak 57 Peak	
Type	1 2 3	Frequency MHz 3225.04 4871.10 8063.40	Readir dBuV/ 39.03 38.46 32.61 32.36	ng Antenna /m dB 28.80 31.40 37.20	Cable dB 6.49 8.63 11.08 12.67	Preamp dB 36.89 35.16 33.32	dBuV/ 37.43 43.33 47.57	Limit /m dBuV/m 74.00 74.00 74.00	lim: -36.9 -30.0 -26.4	Remark it 57 Peak 57 Peak 43 Peak	
	1 2 3 4	Frequency MHz 3225.04 4871.10 8063.40 11341.14	Readir dBuV/ 39.03 38.46 32.61 32.36	mg Antenna /m dB 28.80 31.40 37.20 40.48	Cable dB 6.49 8.63 11.08 12.67	e Preamp dB 36.89 35.16 33.32 36.46	dBuV/ 37.43 43.33 47.57 49.05	el Limit /m dBuV/m 74.00 74.00 74.00 74.00 Polarity	lim: -36.9 -30.6 -26.4 -24.9	r Remark it 57 Peak 57 Peak 43 Peak 95 Peak Horizontal	
	1 2 3	Frequency MHz 3225.04 4871.10 8063.40 11341.14 802.11n(F	Readir dBuV/ 39.03 38.46 32.61 32.36 HT40)	ng Antenna /m dB 28.80 31.40 37.20 40.48 Test channe	Cable dB 6.49 8.63 11.08 12.67	e Preamp dB 36.89 35.16 33.32 36.46 CH09	dBuV/ 37.43 43.33 47.57 49.05	el Limit /m dBuV/m	lim: -36.9 -30.0 -26.4 -24.9	r Remark it 57 Peak 57 Peak 43 Peak 95 Peak Horizontal	
	1 2 3 4 Mark	Frequency MHz 3225.04 4871.10 8063.40 11341.14 802.11n(F	Readir dBuV/ 39.03 38.46 32.61 32.36 HT40)	ng Antenna /m dB 28.80 31.40 37.20 40.48 Test channe	Cable dB 6.49 8.63 11.08 12.67	e Preamp dB 36.89 35.16 33.32 36.46 CH09	dBuV/ 37.43 43.33 47.57 49.05	el Limit /m dBuV/m	lim: -36.5 -30.6 -26.4 -24.9	r Remark it 57 Peak 57 Peak 43 Peak 95 Peak Horizontal	
	1 2 3 4 Mark	Frequency MHz 3225.04 4871.10 8063.40 11341.14 802.11n(Frequency MHz 3607.26	Readir dBuV/ 39.03 38.46 32.61 32.36 HT40) 	mg Antenna /m dB 28.80 31.40 37.20 40.48 Test channe mg Antenna /m dB 29.40	Cable dB 6.49 8.63 11.08 12.67	e Preamp dB 36.89 35.16 33.32 36.46 CH09	dBuV/ 37.43 43.33 47.57 49.05 Leve dBuV/ 37.45	Polarity Limit M	lim: -36.5 -30.6 -26.4 -24.5 Over lim: -36.5	r Remark it 57 Peak 57 Peak 43 Peak 95 Peak Horizontal	
	1 2 3 4 Mark	Frequency MHz 3225.04 4871.10 8063.40 11341.14 802.11n(Frequency MHz 3607.26 4895.97	Readir dBuV/ 39.03 38.46 32.61 32.36 HT40) Readir dBuV/ 38.09 37.32	mg Antenna /m dB 28.80 31.40 37.20 40.48 Test channe /m dB 29.40 31.40	Cable d8 6.49 8.63 11.08 12.67 Cable dB 6.92 8.70	e Preamp dB 36.89 35.16 33.32 36.46 CH09 e Preamp dB 36.96 35.21	dBuV/ 37.43 43.33 47.57 49.05 Leve dBuV/ 37.45 42.21	Polarity Limit M	lim: -36.9 -30.0 -26.4 -24.9 Over lim: -36.9 -31.0	Remark it 7 Peak 7 Peak 95 Peak Horizontal Remark it 55 Peak 79 Peak	
	1 2 3 4 Mark	Frequency MHz 3225.04 4871.10 8063.40 11341.14 802.11n(Figure 1) Frequency MHz 3607.26 4895.97 7489.60	Readir dBuV/ 39.03 38.46 32.61 32.36 HT40) 	mg Antenna /m dB 28.80 31.40 37.20 40.48 Test channe /m dB 29.40 31.40 36.60	Cable 6.49 8.63 11.08 12.67 Cable dB 6.92 8.70 10.43	Preamp dB 36.89 35.16 33.32 36.46 CH09 Preamp dB 36.96 35.21 33.94	dBuV/ 37.43 43.33 47.57 49.05 Leve dBuV/ 37.45 42.21 47.16	Polarity Limit M dBuV/m 74.00 74.00 74.00 74.00 74.00 Polarity Limit M dBuV/m 74.00 74.00 74.00 74.00 74.00 74.00	lim: -36.9 -30.6 -26.4 -24.9 Over lim: -36.9 -31.7 -26.8	Remark it FOUND PEAK F	
	1 2 3 4 Mark	Frequency MHz 3225.04 4871.10 8063.40 11341.14 802.11n(Frequency MHz 3607.26 4895.97	Readir dBuV/ 39.03 38.46 32.61 32.36 HT40) Readir dBuV/ 38.09 37.32	mg Antenna /m dB 28.80 31.40 37.20 40.48 Test channe /m dB 29.40 31.40	Cable 6.49 8.63 11.08 12.67 Cable dB 6.92 8.70 10.43	Preamp dB 36.89 35.16 33.32 36.46 CH09 Preamp dB 36.96 35.21 33.94	dBuV/ 37.43 43.33 47.57 49.05 Leve dBuV/ 37.45 42.21 47.16	Polarity Limit M	lim: -36.9 -30.6 -26.4 -24.9 Over lim: -36.9 -31.7 -26.8	Remark it FOUND PEAK F	
	1 2 3 4 Mark	Frequency MHz 3225.04 4871.10 8063.40 11341.14 802.11n(Figure 1) Frequency MHz 3607.26 4895.97 7489.60	Readir dBuV/ 39.03 38.46 32.61 32.36 HT40) 	mg Antenna /m dB 28.80 31.40 37.20 40.48 Test channe /m dB 29.40 31.40 36.60	Cable dB 6.49 8.63 11.08 12.67 Cable dB 6.92 8.70 10.43 12.50	Preamp dB 36.89 35.16 33.32 36.46 CH09 Preamp dB 36.96 35.21 33.94	dBuV/ 37.43 43.33 47.57 49.05 Leve dBuV/ 37.45 42.21 47.16	Polarity Limit M dBuV/m 74.00 74.00 74.00 74.00 74.00 Polarity Limit M dBuV/m 74.00 74.00 74.00 74.00 74.00 74.00	lim: -36.9 -30.6 -26.4 -24.9 Over lim: -36.9 -31.7 -26.8	Remark it FOUND PEAK F	
Туре	1 2 3 4 Mark	Frequency MHz 3225.04 4871.10 8063.40 11341.14 802.11n(H Frequency MHz 3607.26 4895.97 7489.60 10778.21	Readir dBuV/ 39.03 38.46 32.61 32.36 HT40) 	mg Antenna /m dB 28.80 31.40 37.20 40.48 Test channe mg Antenna /m dB 29.40 31.40 36.60 40.26	Cable dB 6.49 8.63 11.08 12.67 Cable dB 6.92 8.70 10.43 12.50	e Preamp dB 36.89 35.16 33.32 36.46 CH09 e Preamp dB 36.96 35.21 33.94 36.85	dBuV/ 37.43 43.33 47.57 49.05 Leve dBuV/ 37.45 42.21 47.16	Polarity Limit M dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit M dBuV/m 74.00 74.00 74.00 74.00 74.00 74.00	lim: -36.9 -30.6 -26.4 -24.9 Over lim: -36.9 -31.7 -26.8	r Remark it 57 Peak 57 Peak 43 Peak 95 Peak Horizontal - Remark it 55 Peak 79 Peak 91 Peak	
Туре	1 2 3 4 Mark	Frequency MHz 3225.04 4871.10 8063.40 11341.14 802.11n(Frequency MHz 3607.26 4895.97 7489.60 10778.21 802.11n(F	Readir dBuV/ 39.03 38.46 32.61 32.36 HT40) 	mg Antenna /m dB 28.80 31.40 37.20 40.48 Test channe mg Antenna /m dB 29.40 31.40 36.60 40.26 Test channe	Cable 6.49 8.63 11.08 12.67 Cable 6.92 8.70 10.43 12.50	e Preamp dB 36.89 35.16 33.32 36.46 CH09 e Preamp dB 36.96 35.21 33.94 36.85 CH09	dBuV/ 37.43 43.33 47.57 49.05 Leve dBuV/ 37.45 42.21 47.16 48.09	Polarity	lim: -36.9 -30.6 -26.4 -24.9 Over lim: -36.9 -31.7 -26.8	Remark it 7 Peak 7 Peak 95 Peak Horizontal Remark it 55 Peak 79 Peak 91 Peak Vertical	
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 3225.04 4871.10 8063.40 11341.14 802.11n(Herman Superson Sup	Readir dBuV/ 39.03 38.46 32.61 32.36 HT40) 	mg Antenna /m dB 28.80 31.40 37.20 40.48 Test channe /m dB 29.40 31.40 36.60 40.26 Test channe	Cable 6.49 8.63 11.08 12.67 Cable 6.92 8.70 10.43 12.50	e Preamp dB 36.89 35.16 33.32 36.46 CH09 e Preamp dB 36.96 35.21 33.94 36.85	dBuV/ 37.43 43.33 47.57 49.05 Leve dBuV/ 37.45 42.21 47.16 48.09	Polarity Polarity Polarity Polarity Polarity Polarity Limit Maguv/m 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 Polarity	lim: -36.9 -30.6 -26.4 -24.9 Over lim: -36.9 -31.7 -26.8 -25.9	Remark	
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 3225.04 4871.10 8063.40 11341.14 802.11n(Frequency MHz 3607.26 4895.97 7489.60 10778.21 802.11n(Frequency	Readir dBuV/ 39.03 38.46 32.61 32.36 HT40) 	mg Antenna /m dB 28.80 31.40 37.20 40.48 Test channe mg Antenna /m dB 29.40 31.40 36.60 40.26 Test channe	Cable 6.49 8.63 11.08 12.67 Cable 6.92 8.70 10.43 12.50 Cable 6.92	e Preamp dB 36.89 35.16 33.32 36.46 CH09 e Preamp dB 36.96 35.21 33.94 36.85 CH09	dBuV/ 37.43 43.33 47.57 49.05 Leve dBuV/ 37.45 42.21 47.16 48.09	Polarity Polarity Polarity Limit M dBuV/m 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 Polarity	lim: -36.5 -30.6 -26.4 -24.5 Over lim: -36.5 -25.5 Over limi	Remark T Peak Peak Peak Horizontal Remark Remark Peak Peak Peak Peak Remark Remark Remark Remark Remark	
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 3225.04 4871.10 8063.40 11341.14 802.11n(Frequency MHz 3607.26 4895.97 7489.60 10778.21 802.11n(Frequency MHz 3454.49	Readir dBuV/ 39.03 38.46 32.61 32.36 HT40) 	mg Antenna /m dB 28.80 31.40 37.20 40.48 Test channe mg Antenna /m dB 29.40 31.40 36.60 40.26 Test channe	Cable 6.49 8.63 11.08 12.67 Cable 6.92 8.70 10.43 12.50 Cable 6.75	e Preamp dB 36.89 35.16 33.32 36.46 CH09 e Preamp dB 36.96 35.21 33.94 36.85 CH09 e Preamp dB 36.85	dBuV/ 37.43 43.33 47.57 49.05 Leve dBuV/ 37.45 42.21 47.16 48.09 Leve dBuV/ 36.72	Polarity Polarity Polarity Polarity Limit M dBuV/m 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00	1im: -36.5 -30.6 -26.4 -24.5 Over 1im: -36.5 -25.6 Over 1im: -37.2	Remark T Peak Peak Peak Remark	
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 3225.04 4871.10 8063.40 11341.14 802.11n(Frequency MHz 3607.26 4895.97 7489.60 10778.21 802.11n(Frequency MHz 3454.49 4809.50	Readir dBuV/ 39.03 38.46 32.61 32.36 HT40) Readir dBuV/ 38.09 37.32 34.07 32.18 HT40) Readir dBuV/ 37.62 35.15	mg Antenna /m dB 28.80 31.40 37.20 40.48 Test channe mg Antenna /m dB 29.40 31.40 36.60 40.26 Test channe mg Antenna /m dB 29.40 31.40 36.40 31.40 36.60 40.26	Cable 8.63 11.08 12.67 Cable 6.92 8.70 10.43 12.50 Cable 6.75 8.47	e Preamp dB 36.89 35.16 33.32 36.46 CH09 e Preamp dB 36.96 35.21 33.94 36.85 CH09 e Preamp dB 36.57 35.28	dBuV/ 37.43 43.33 47.57 49.05 Leve dBuV/ 37.45 42.21 47.16 48.09 Leve dBuV/ 36.72 39.74	Polarity Plainit M dBuV/m 74.00 74.00 74.00 74.00 74.00 Polarity Plainit M dBuV/m 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00	1im: -36.9 -30.6 -26.4 -24.9 Over lim: -36.9 -25.9 Over lim: -37.2 -34.2	Remark The Remark	
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 3225.04 4871.10 8063.40 11341.14 802.11n(Frequency MHz 3607.26 4895.97 7489.60 10778.21 802.11n(Frequency MHz 3454.49	Readir dBuV/ 39.03 38.46 32.61 32.36 HT40) 	mg Antenna /m dB 28.80 31.40 37.20 40.48 Test channe mg Antenna /m dB 29.40 31.40 36.60 40.26 Test channe mg Antenna /m dB 29.40 31.40 36.40 31.40 36.60 40.26	Cable 6.49 8.63 11.08 12.67 Cable 6.92 8.70 10.43 12.50 Cable 6.75	e Preamp dB 36.89 35.16 33.32 36.46 CH09 e Preamp dB 36.96 35.21 33.94 36.85 CH09 e Preamp dB 36.57 35.28 33.93	dBuV/ 37.43 43.33 47.57 49.05 Leve dBuV/ 37.45 42.21 47.16 48.09 Leve dBuV/ 36.72	Polarity Plainit M dBuV/m 74.00 74.00 74.00 74.00 74.00 Polarity Plainit M dBuV/m 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00	lim: -36.9 -30.6 -26.4 -24.9 Over lim: -36.9 -25.9 Over lim: -37.2 -34.2 -27.8	Remark T Peak Peak Peak Remark	

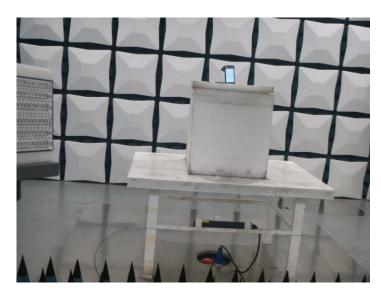
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6. TEST SETUP PHOTOS

Radiated Emission







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AC Conducted Emission



7. EXTERANAL AND INTERNAL PHOTOS

Reference to the test report No. : CHTEW21120189..

8. APPENDIX REPORT