TEST REPORT

Report No.:: CHTEW21110195 Report Verification:

Project No..... SHT2111009101EW

FCC ID.....:: 2ASWWCORNR4

Applicant's name: XINCHUANGXIN INTERNATIONAL CO.,LTD

Address.....: ROOM 605 6/F, FA YUEN COMMERCIAL BUILDING, 75-77 FA

YUEN STREET MONGKOK KL

Test item description: **Smart Phone**

Trade Mark: CORN

Model/Type reference..... R4

Listed Model(s):

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

Date of receipt of test sample..... Nov. 03, 2021

Date of testing..... Nov. 04, 2021- Nov. 22, 2021

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

Result....: **PASS**

Compiled by

(Position+Printed name+Signature): File administrator Silvia Li

Supervised by

(Position+Printed name+Signature): Project Engineer Aaron Fang Silvia Li Aaron.Fang

Approved by

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

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

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

Tianliao, Gongming, Shenzhen, China

Shenzhen Huatongwei International Inspection Co., Ltd. All rights reserved.

This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen Huatongwei International Inspection Co., Ltd. is acknowledged as copyright owner and source of the material. Shenzhen Huatongwei International Inspection Co., Ltd. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

The test report merely correspond to the test sample.

Report No.: CHTEW21110195 Page: 2 of 33 Issued: 2021-11-23

Contents

<u>1.</u>	TEST STANDARDS AND REPORT VERSION	3
1.1.	Test Standards	3
1.2.	Report version	3
•	TEGT DECORIDATION	
<u>2.</u>	TEST DESCRIPTION	4
<u>3.</u>	SUMMARY	5
0.4	Olivert Information	-
3.1.	Client Information	5
3.2.	Product Description	5
3.3.	Radio Specification Description	5
3.4.	Testing Laboratory Information	6
<u>4.</u>	TEST CONFIGURATION	7
4.1.	Test frequency list	7
4.2.	Descriptions of Test mode	7
4.3.	Test mode	7
4.4.	Support unit used in test configuration and system	8
4.5.	Testing environmental condition	8
4.6.	Measurement uncertainty	8
4.7.	Equipment Used during the Test	9
<u>5.</u>	TEST CONDITIONS AND RESULTS	11
5.1.	Antenna Requirement	11
5.1. 5.2.	AC Conducted Emission	12
5.2. 5.3.	Peak Output Power	15
5.4.	Power Spectral Density	16
5. 4 . 5.5.	6dB bandwidth	17
5.6.	99% Occupied Bandwidth	18
5.7.	Duty Cycle	19
5.7. 5.8.	Conducted Band edge and Spurious Emission	20
5.9.	Radiated Band edge Emission	22
5.10.	Radiated Spurious Emission	26
0.10.	Nadiated Spanious Emission	20
<u>6.</u>	TEST SETUP PHOTOS	32
<u>7.</u>	EXTERANAL AND INTERNAL PHOTOS	33
8.	APPENDIX REPORT	33

Report No.: CHTEW21110195 Page: 3 of 33 Issued: 2021-11-23

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	2021-11-23	Original

Report No.: CHTEW21110195 Page: 4 of 33 Issued: 2021-11-23

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.

Report No.: CHTEW21110195 Page: 5 of 33 Issued: 2021-11-23

3. **SUMMARY**

3.1. Client Information

Applicant:	XINCHUANGXIN INTERNATIONAL CO.,LTD	
Address:	ROOM 605 6/F, FA YUEN COMMERCIAL BUILDING, 75-77 FA YUEN STREET MONGKOK KL	
Manufacturer:	XINCHUANGXIN INTERNATIONAL CO.,LTD	
Address:	ROOM 605 6/F, FA YUEN COMMERCIAL BUILDING, 75-77 FA YUEN STREET MONGKOK KL	

3.2. Product Description

Name of EUT:	Smart Phone
Trade Mark:	CORN
Model No.:	R4
Listed Model(s):	-
Power supply:	DC 3.7V
Battery Information:	DC 3.7V, 1500mAh
Adapter Information:	Model:CS001 Input: AC100-240V, 50/60Hz, 0.15A Output: 5.0Vdc, 1.0A
Hardware version:	D8085D3_MB_V1.0
Software version:	CORN_R4_S40307A_V01_20211112

3.3. Radio Specification Description

Support type ^{*2} :	802.11b, 802.11g, 802.11n(HT20)
Modulation:	DSSS for 802.11b OFDM for 802.11g/802.11n(HT20)
Operation frequency:	2412MHz~2462MHz for 802.11b/802.11g/802.11n(HT20)
Channel number:	11 for 802.11b/802.11g/802.11n(HT20)
Channel separation:	5MHz
Antenna type:	Internal Antenna
Antenna gain:	1.2dBi

Note:

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

Report No.: CHTEW21110195 Page: 6 of 33 Issued: 2021-11-23

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	

Report No.: CHTEW21110195 Page: 7 of 33 Issued: 2021-11-23

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)		
Channel	Frequency (MHz)	
01	2412	
02	2417	
. :	. :	
06	2437	
. :	. :	
10	2457	
11	2462	

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

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.

Report No.: CHTEW21110195 Page: 8 of 33 Issued: 2021-11-23

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.

Report No.: CHTEW21110195 Page: 9 of 33 Issued: 2021-11-23

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

Report No.: CHTEW21110195 Page: 10 of 33 Issued: 2021-11-23

•	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

Report No.: CHTEW21110195 Page: 11 of 33 Issued: 2021-11-23

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 antenna type is a Internal antenna, the directional gain of the antenna less than 6 dBi, please refer to the below antenna photo.



Report No.: CHTEW21110195 Page: 12 of 33 Issued: 2021-11-23

5.2. AC Conducted Emission

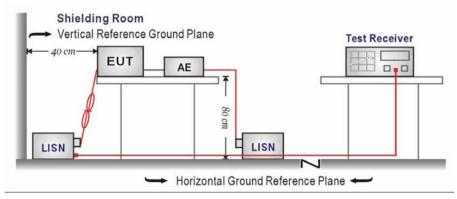
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207

Fragues ov rop go (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

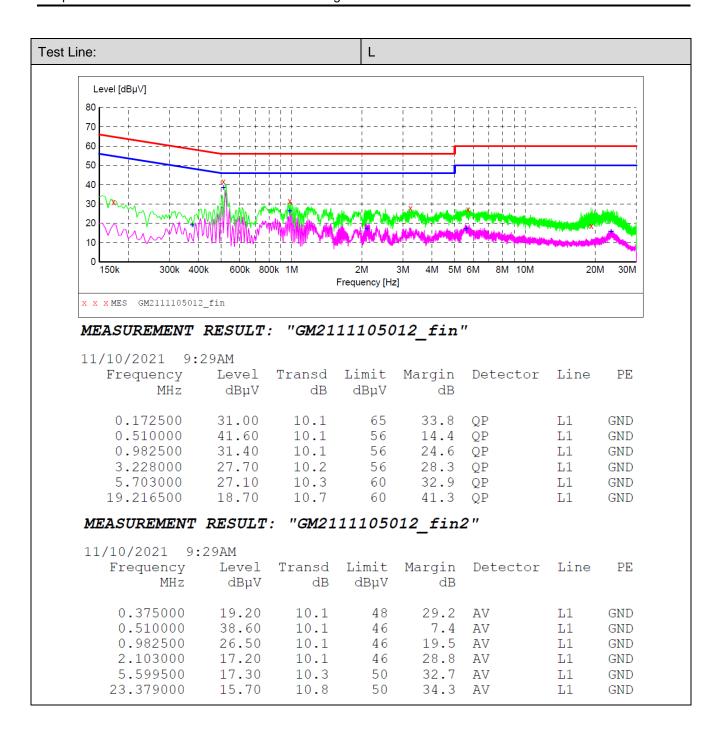
- 1. The EUT was setup according to ANSI C63.10 requirements.
- The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
- 3. 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:

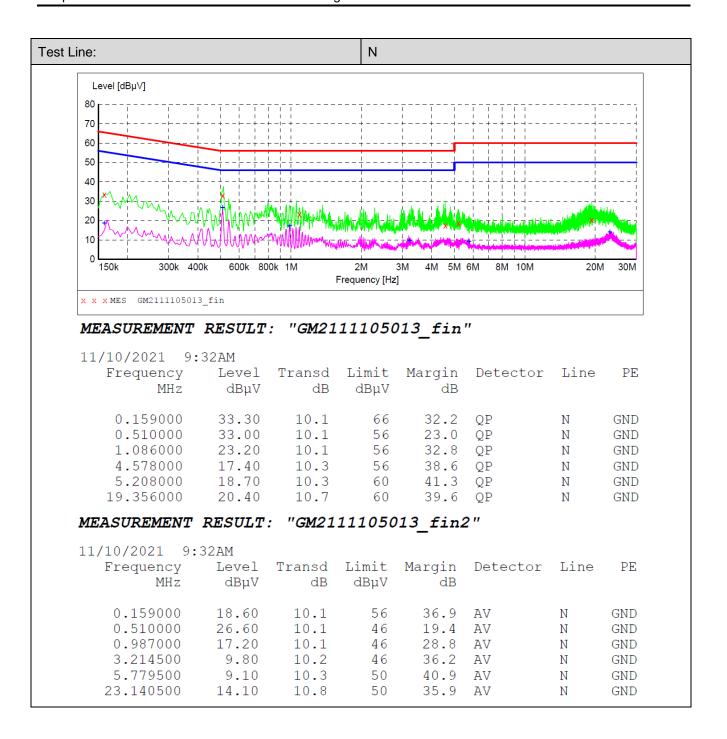
Please refer to the clause 4.2

TEST RESULT

 Report No.: CHTEW21110195 Page: 13 of 33 Issued: 2021-11-23



Report No.: CHTEW21110195 Page: 14 of 33 Issued: 2021-11-23



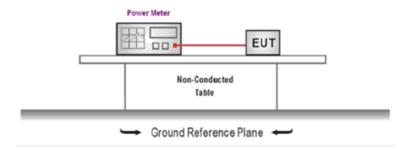
Report No.: CHTEW21110195 Page: 15 of 33 Issued: 2021-11-23

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

Report No.: CHTEW21110195 Page: 16 of 33 Issued: 2021-11-23

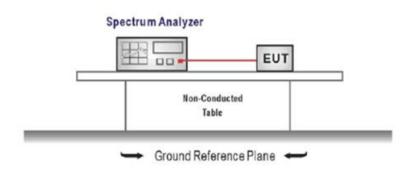
5.4. Power Spectral Density

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

Report No.: CHTEW21110195 Page: 17 of 33 Issued: 2021-11-23

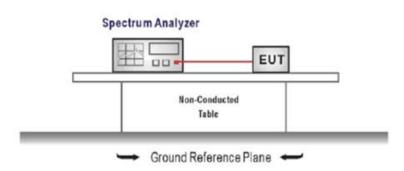
5.5. 6dB bandwidth

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

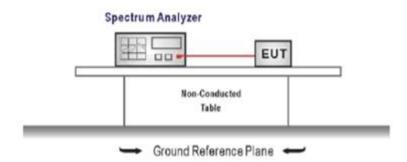
Report No.: CHTEW21110195 Page: 18 of 33 Issued: 2021-11-23

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

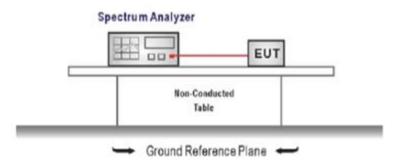
Report No.: CHTEW21110195 Page: 19 of 33 Issued: 2021-11-23

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 \geq 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

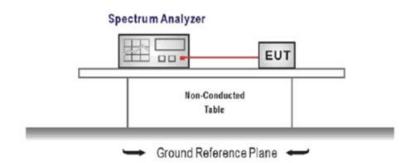
Report No.: CHTEW21110195 Page: 20 of 33 Issued: 2021-11-23

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 \geq 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.
- 5. 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

Report No.: CHTEW21110195 Page: 21 of 33 Issued: 2021-11-23

TEST	RESULT
-------------	---------------

 $oxed{oxed}$ Passed $oxed{oxed}$ Not Applicable

TEST Data

Please refer to appendix F on the appendix report

Report No.: CHTEW21110195 Page: 22 of 33 Issued: 2021-11-23

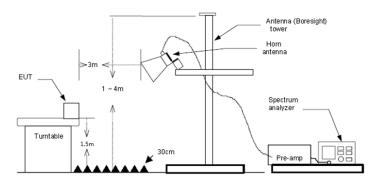
5.9. Radiated Band edge Emission

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).

Report No.: CHTEW21110195 Page: 23 of 33 Issued: 2021-11-23

Туре		802.11	1b	Test cl	hannel	С	:H01	I	Polarity		Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	p Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1 2	2310.00 2390.01	30.38 30.04	27.96 27.72	5.43 5.53	37.46 37.21	20.00 20.00		1 54.00 8 54.00	-7.69 -7.92	
,	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Prear dB	np Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1 2	2310.00 2390.01	37.23 36.31	27.96 27.72	5.43 5.53	37.46 37.21	20.00 20.00	53.16 52.35	74.00 74.00	-20.84 -21.65	Peak Peak
Туре		802.11	1b	Test c	hannel	C	H01	ı	Polarity		Vertical
,	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	p Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1 2	2310.00 2390.01	30.45 29.86	27.96 27.72	5.43 5.53	37.46 37.21	20.00 20.00		8 54.00 0 54.00	-7.62 -8.10	Average Average
•	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Prea dB	mp Aux dB	Level dBuV/m	Limit dBuV/m	Over 1 limi	
	1 2	2310.00 2390.01	36.76 36.52	27.96 27.72	5.43 5.53	37.46 37.21		52.69 52.56	74.00 74.00	-21.31 -21.44	

Туре		802.11b		Test cha	annel	CH	11	Pol	arity		Horizontal
	Mark	Frequency	Peading	Antenna	 Cable	Draamr	Δυν	Level	Limit	Ove	r Remark
	rial K	MHz	_	dB	dB	dB	dB	dBuV/m	dBuV/m		
	1	2483.49	-	27.43	5.64	37.28	20.00	51.77	74.00	-22.2	
	2	2500.00	36.59	27.40	5.66	37.28	20.00	52.37	74.00	-21.6	3 Peak
	Mark	Frequency	_	Antenna				Level	Limit	0ver	Remark
		MHz		dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
	1	2483.49	29.47		5.64	37.28	20.00			-8.74	
	2	2500.00	30.35	27.40	5.66	37.28	20.00	46.13	54.00	-7.87	Average
Туре		802.11b		Test cha	annel	CH	11	Pol	arity		Vertical
	Mark	Frequency	Reading	Antenna	Cable	Preamo	Aux	Level	Limit	Over	r Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m		
	1	2483.49	35.83	27.43	5.64	37.28	20.00	51.62		-22.38	8 Peak
	2	2500.00	37.29	27.40	5.66	37.28	20.00	53.07	74.00	-20.93	3 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	29.74	27.43	5.64	37.28	20.00	45.53	54.00	-8.47	Average
	2	2500.00	30.11	27.40	5.66	37.28	20.00		54.00	-8.11	Average

Report No.: CHTEW21110195 Page: 24 of 33 Issued: 2021-11-23

Туре		802.11g	Test c	hannel	СН	101	F	Polarity		Horizontal	
	Mark Frequ	,	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
	1 2310.0 2 2390.0		27.96 27.72		37.46 37.21	20.00 20.00	51.99 53.36	74.00 74.00	-22.01 -20.64	Peak Peak	
	Mark Fred	quency Reading Hz dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
	1 2310 2 2390		27.96 27.72		37.46 37.21	20.00 20.00		54.00 54.00		Average Average	
Туре		802.11g	Test c	hannel	СН	101	F	Polarity		Vertical	
	Mark Frequ	, ,	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/r		Remark	
	1 2310.0 2 2390.0		27.96 27.72		37.46 37.21	20.00 20.00	52.86 52.50	74.00 74.00	-21.14 -21.50		
	Mark Frequ	, ,	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
	1 2310.0 2 2390.0		27.96 27.72			20.00 20.00			-12.64 -12.63	Average Average	

Туре		802.11	lg	Test cl	nannel	CI	 11	F	Polarity	Horizontal
	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	2483.49 2500.00			5.64 5.66	37.28 37.28	20.00 20.00		2 54.00 -12.38 8 54.00 -12.92	
	Mark	Frequency MHz	_	Antenna dB	Cable dB	Pream	p Aux dB	Level dBuV/m	Limit Ove dBuV/m lim	
	1		37.13 36.68		5.64 5.66		20.00 20.00	52.92 52.46	74.00 -21.0 74.00 -21.5	
Туре		802.11	lg	Test cl	nannel	CI	- 111	F	Polarity	Vertical
	Mark	Frequency MHz	_	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit Over dBuV/m limit	Remark
	1 2	2483.49	25.30	27.43 27.40	5.64	37.28 37.28	20.00	41.0	9 54.00 -12.91 0 54.00 -13.10	Average
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	Aux dB	Level dBuV/m	Limit Over dBuV/m limi	
	_	2483.49 2500.00	37.14 36.55	27.43 27.40	5.64 5.66	37.28 37.28	20.00 20.00	52.93 52.33	74.00 -21.07 74.00 -21.67	

Report No.: CHTEW21110195 Page: 25 of 33 Issued: 2021-11-23

Туре		802.	11n(HT20)	Test	channel	CH01		Polarity	Horizontal
	Mark	Frequency MHz	Reading A	Antenna dB	Cable Prea	mp Aux dB	Level dBuV/m	Limit Over dBuV/m limit	Remark
	1 2	2310.00	25.48 2	27.96 27.72	5.43 37.46 5.53 37.21	20.00	41.4	1 54.00 -12.59 7 54.00 -11.63	Average Average
	Mark	Frequenc	/ Reading				Level		
	1	MHz 2310.00	dBuV/m	dB 27.96	dB dE 5.43 37.4	dB	dBuV/r 52.98		t
	2	2390.01	37.44	27.72	5.53 37.2	20.00	53.48	74.00 -20.52	Peak
Туре		802.	11n(HT20)	Test	channel	CH01		Polarity	Vertical
	Mark	Frequenc MHz	y Reading dBuV/m	Antenna dB	Cable Pre		Level dBuV/m		Remark
	1 2	2310.00 2390.01	25.60	27.96 27.72	5.43 37.4 5.53 37.2	6 20.00	41.	53 54.00 -12.47 51 54.00 -12.49	
	Mark	Frequence MHz	,	Antenna dB		eamp Aux B dB	Level		
	1 2	2310.00 2390.01			5.43 37. 5.53 37.	46 20.00	52.38	•	2 Peak

Туре		802.11n	(HT20)	Test	channe	el C	CH11	Po	olarity		Horizontal	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream	ip Aux dB	Level dBuV/m	Limit dBuV/n			•
	1 2	2483.49 2500.00	37.76 37.63	27.43 27.40	5.64 5.66	37.28 37.28	20.00 20.00	53.55 53.41	74.00			
	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	2483.49 2500.00		27.43 27.40	5.64 5.66	37.28 37.28	20.00 20.00	42.88 41.50		-11.12 -12.50		
T		000 44.5	/LITOO\	Task	-1		21144				Martinal	
Туре		802.11n	(H120)	rest	channe	91 (CH11	P	olarity		Vertical	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream; dB	p Aux dB	Level dBuV/m	Limit dBuV/m	Over limi		
	1 2	2483.49 2500.00	37.62 37.19	27.43 27.40	5.64 5.66	37.28 37.28	20.00 20.00	53.41 52.97	74.00 74.00	-20.59 -21.03		
	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	-	27.43		37.28	20.00	41.24		-12.76		

Report No.: CHTEW21110195 Page: 26 of 33 Issued: 2021-11-23

5.10. Radiated Spurious Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

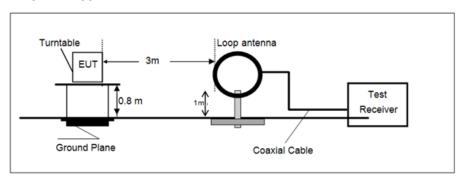
Frequency	Limit (dBuV/m)	Value
0.009 MHz ~0.49 MHz	2400/F(kHz) @300m	Quasi-peak
0.49 MHz ~ 1.705 MHz	24000/F(kHz) @30m	Quasi-peak
1.705 MHz ~30 MHz	30 @30m	Quasi-peak

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.

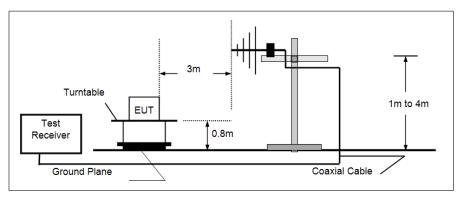
Frequency	Limit (dBuV/m @3m)	Value	
30MHz~88MHz	40.00	Quasi-peak	
88MHz~216MHz	43.50	Quasi-peak	
216MHz~960MHz	46.00	Quasi-peak	
960MHz~1GHz	54.00	Quasi-peak	
Above 10Uz	54.00	Average	
Above 1GHz	74.00	Peak	

TEST CONFIGURATION

→ 9 kHz ~ 30 MHz

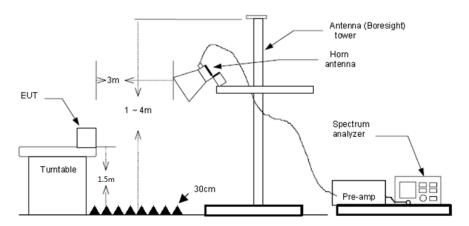


> 30 MHz ~ 1 GHz



Above 1 GHz

Report No.: CHTEW21110195 Page: 27 of 33 Issued: 2021-11-23



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 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
 - 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:

- 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.

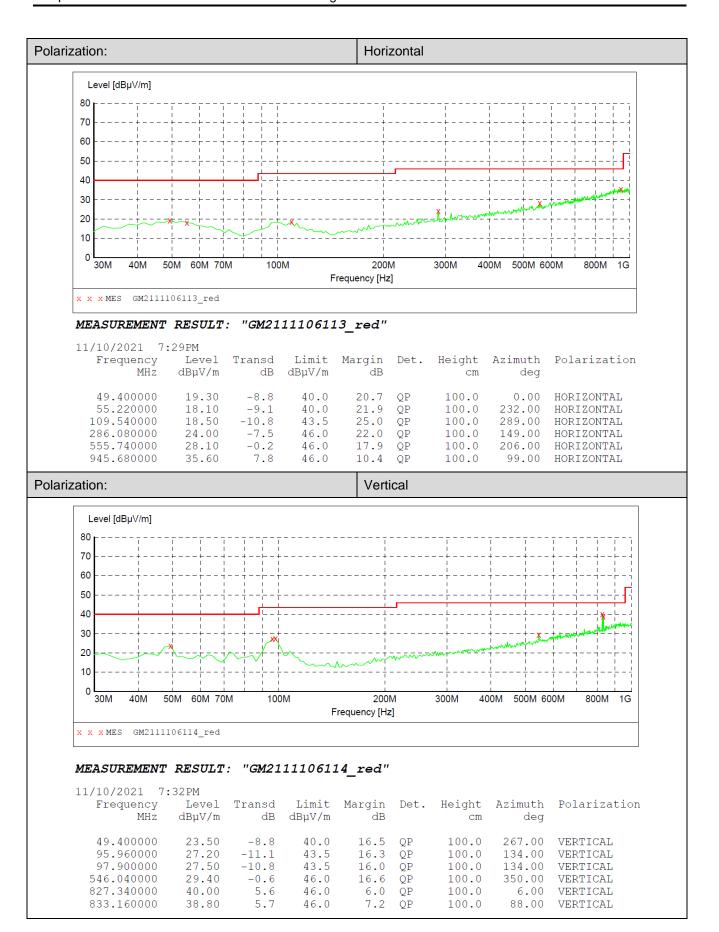
TEST DATA FOR 9 kHz ~ 30 MHz

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.

Report No.: CHTEW21110195 Page: 28 of 33 Issued: 2021-11-23



Report No.: CHTEW21110195 Page: 29 of 33 Issued: 2021-11-23

TEST DATA FOR 1 GHz ~ 25 GHz

Туре		802.11b		Test channe	I	CH01		Polarity	Horizontal	
	Mark	Frequency MHz	Readin dBuV/		Cable dB	dB .	Leve dBuV/		er Remark mit	
	1	1345.31	39.41	26.27	4.10		33.48		.52 Peak	
	2	2595.02	41.58	27.49	5.82		37.62		.38 Peak	
	3	4825.23	39.33	31.40	8.51		45.15		.85 Peak	
	4	8074.41	32.93	37.20	11.12	33.12	48.13	74.00 -25	.87 Peak	
Туре		802.11b		Test channe	I	CH01		Polarity	Vertical	
	Mark	Engagener	Readin	g Antenna	Cable	e Preamp	Leve	l Limit Ov	er Remark	
	mark	Frequency MHz	dBuV/		dB	e Preamp dB	dBuV/		er kemark mit	
	1	1335.01	39.34	26.21	4.08		33.33		.67 Peak	
	2	1887.02	40.30	25.75	4.87		33.72		.28 Peak	
	3	4825.23	39.67	31.40	8.51		45.49		.51 Peak	
	4	8039.36	32.52	37.18	11.01		47.74		.26 Peak	
Туре		802.11b		Test channe	l	CH06		Polarity	Horizontal	
	MI		n	A-4	C-1-1	- D		1 12-24 0	er Remark	
	Mark	Frequency MHz	Readin dBuV/		Cabl dB	e Preamp dB	Leve dBuV/		er Remark .mit	
	1	1345.31	39.41	26.27	4.10		33.48			
	2	2595.02	41.58	27.49	5.82		37.62		.38 Peak	
	3	4874.47	37.94	31.40	8.64		43.59		.41 Peak	
	4	8121.39	33.10	37.11	11.27		48.33		.67 Peak	
		0121133	33,10	37.111	11117	33.13	10133	74100 23	Tor Teak	
Туре		802.11b		Test channe	1	CH06		Polarity	Vertical	
					'	01100		. ciarry	Vortical	
	Mark	Fraguency	Dandir				Leve			
	Mark	Frequency	Readir	ng Antenna	Cabl	e Preamp	Leve	l Limit Ov	er Remark	
		MHz	dBuV/	ng Antenna /m dB	Cabl	e Preamp dB	dBuV/	l Limit Ov /m dBuV/m li	er Remark mit	
	1	MHz 1335.01	dBuV/ 39.34	ng Antenna /m dB 26.21	Cabl dB 4.08	e Preamp dB 36.30	dBuV/ 33.33	Limit Ov m dBuV/m li 74.00 -40	er Remark mit 0.67 Peak	
		MHz	dBuV/	ng Antenna /m dB	Cabl	e Preamp dB 36.30 37.20	dBuV/	l Limit Ov m dBuV/m li 74.00 -40 74.00 -40	er Remark mit	
	1 2	MHz 1335.01 1887.02	dBuV/ 39.34 40.30	ng Antenna /m dB 26.21 25.75	Cabl dB 4.08 4.87	e Preamp dB 36.30 37.20 34.39	dBuV/ 33.33 33.72	l Limit Ov m dBuV/m li 74.00 -40 74.00 -40 74.00 -30	er Remark mit 0.67 Peak 0.28 Peak	
Type	1 2 3	MHz 1335.01 1887.02 4874.47 7958.16	dBuV/ 39.34 40.30 38.09	ng Antenna 'm dB 26.21 25.75 31.40 36.93	Cabl dB 4.08 4.87 8.64 10.87	e Preamp dB 36.30 37.20 34.39 32.85	dBuV/ 33.33 33.72 43.74	l Limit Ov m dBuV/m li 74.00 -46 74.00 -36 74.00 -26	er Remark mit 1.67 Peak 1.28 Peak 1.26 Peak 1.60 Peak	
Туре	1 2 3	MHz 1335.01 1887.02 4874.47	dBuV/ 39.34 40.30 38.09	ng Antenna /m dB 26.21 25.75 31.40	Cabl dB 4.08 4.87 8.64 10.87	e Preamp dB 36.30 37.20 34.39	dBuV/ 33.33 33.72 43.74	l Limit Ov m dBuV/m li 74.00 -40 74.00 -40 74.00 -30	er Remark mit 0.67 Peak 0.28 Peak 0.26 Peak	
Туре	1 2 3 4	MHz 1335.01 1887.02 4874.47 7958.16	dBuV/ 39.34 40.30 38.09 32.45	ng Antenna /m dB 26.21 25.75 31.40 36.93 Test channe	Cabl dB 4.08 4.87 8.64 10.87	e Preamp dB 36.30 37.20 34.39 32.85	dBuV/ 33.33 33.72 43.74 47.40	Polarity	er Remark mit 0.67 Peak 0.28 Peak 0.26 Peak 0.60 Peak	
Type	1 2 3	MHz 1335.01 1887.02 4874.47 7958.16 802.11b	dBuV/ 39.34 40.30 38.09 32.45	ng Antenna /m dB 26.21 25.75 31.40 36.93 Test channe	Cabl dB 4.08 4.87 8.64 10.87	e Preamp dB 36.30 37.20 34.39 32.85 CH11	dBuV/ 33.33 33.72 43.74 47.40	Polarity Limit Ov 74.00 -40 74.00 -30 74.00 -20	er Remark mit 0.67 Peak 0.28 Peak 0.26 Peak 0.60 Peak Horizontal er Remark	
Туре	1 2 3 4	MHz 1335.01 1887.02 4874.47 7958.16	dBuV/ 39.34 40.30 38.09 32.45 Reading	ng Antenna /m dB 26.21 25.75 31.40 36.93 Test channe	Cabl 4.08 4.87 8.64 10.87	e Preamp dB 36.30 37.20 34.39 32.85	dBuV/ 33.33 33.72 43.74 47.40 Leve dBuV/	Polarity Limit Ov 74.00 -40 74.00 -30 74.00 -20	er Remark mit 0.67 Peak 0.28 Peak 0.26 Peak 0.60 Peak	
Type	1 2 3 4	MHz 1335.01 1887.02 4874.47 7958.16 802.11b Frequency MHz	dBuV/ 39.34 40.30 38.09 32.45	ng Antenna /m dB 26.21 25.75 31.40 36.93 Test channe	Cabl dB 4.08 4.87 8.64 10.87	e Preamp dB 36.30 37.20 34.39 32.85 CH11	dBuV/ 33.33 33.72 43.74 47.40	Polarity Limit Ov 74.00 -40 74.00 -30 74.00 -20 Polarity Limit Ov m dBuV/m li 74.00 -40	rer Remark mit 0.67 Peak 0.28 Peak 0.26 Peak 0.60 Peak Horizontal er Remark mit	
Type	1 2 3 4	MHz 1335.01 1887.02 4874.47 7958.16 802.11b Frequency MHz 1345.31	dBuV/ 39.34 40.30 38.09 32.45 Reading dBuV/ 39.41	ng Antenna /m dB 26.21 25.75 31.40 36.93 Test channel	Cabl 4.08 4.87 8.64 10.87	e Preamp dB 36.30 37.20 34.39 32.85 CH11	dBuV/ 33.33 33.72 43.74 47.40 Leve dBuV/ 33.48	Polarity Limit Ov 74.00 -40 74.00 -30 74.00 -20 Polarity Limit Ov m dBuV/m li 74.00 -40 74.00 -30	er Remark mit 0.67 Peak 0.28 Peak 0.26 Peak 0.60 Peak Horizontal er Remark mit 0.52 Peak	
Type	1 2 3 4	MHz 1335.01 1887.02 4874.47 7958.16 802.11b Frequency MHz 1345.31 2595.02	dBuV/ 39.34 40.30 38.09 32.45 Reading dBuV/ 39.41 41.58	ng Antenna /m dB 26.21 25.75 31.40 36.93 Test channe g Antenna m dB 26.27 27.49 31.45	Cabl 4.08 4.87 8.64 10.87 Cable dB 4.10 5.82	e Preamp dB 36.30 37.20 34.39 32.85 CH11 e Preamp dB 36.30 37.27	dBuV/ 33.33 33.72 43.74 47.40 Leve dBuV/ 33.48 37.62	Polarity Limit Ov 74.00 -40 74.00 -30 74.00 -20 Polarity Limit Ov m dBuV/m li 74.00 -40 74.00 -30 74.00 -30 74.00 -30 74.00 -30 74.00 -30	rer Remark mit 0.67 Peak 0.28 Peak 0.26 Peak 0.60 Peak Horizontal er Remark mit 0.52 Peak 0.38 Peak	
Type	1 2 3 4	MHz 1335.01 1887.02 4874.47 7958.16 802.11b Frequency MHz 1345.31 2595.02 4924.20	dBuV/ 39.34 40.30 38.09 32.45 Reading dBuV/ 39.41 41.58 36.07	ng Antenna /m dB 26.21 25.75 31.40 36.93 Test channe g Antenna m dB 26.27 27.49 31.45	Cable 4.08 4.87 8.64 10.87 Cable dB 4.10 5.82 8.74 10.43	e Preamp dB 36.30 37.20 34.39 32.85 CH11 e Preamp dB 36.30 37.27 34.52	dBuV/ 33.33 33.72 43.74 47.40 	Polarity Limit Ov 74.00 -40 74.00 -30 74.00 -20 Polarity Limit Ov m dBuV/m li 74.00 -40 74.00 -30 74.00 -30 74.00 -30 74.00 -30 74.00 -30	rer Remark mit 0.67 Peak 0.28 Peak 0.26 Peak 0.60 Peak Horizontal er Remark mit 0.52 Peak 0.38 Peak 0.26 Peak	
	1 2 3 4	MHz 1335.01 1887.02 4874.47 7958.16 802.11b Frequency MHz 1345.31 2595.02 4924.20 7564.29	dBuV/ 39.34 40.30 38.09 32.45 Reading dBuV/ 39.41 41.58 36.07	ng Antenna /m dB 26.21 25.75 31.40 36.93 Test channel	Cable 4.08 4.87 8.64 10.87 Cable dB 4.10 5.82 8.74 10.43	e Preamp dB 36.30 37.20 34.39 32.85 CH11 e Preamp dB 36.30 37.27 34.52 33.69	dBuV/ 33.33 33.72 43.74 47.40 	Polarity Limit Ov 74.00 -40 74.00 -30 74.00 -20 Polarity Limit Ov m dBuV/m li 74.00 -40 74.00 -30 74.00 -30 74.00 -30 74.00 -36 74.00 -32 74.00 -26	er Remark mit 0.67 Peak 0.28 Peak 0.26 Peak 0.60 Peak Horizontal er Remark mit 0.52 Peak 0.38 Peak 0.26 Peak	
	1 2 3 4	MHz 1335.01 1887.02 4874.47 7958.16 802.11b Frequency MHz 1345.31 2595.02 4924.20 7564.29 802.11b	dBuV/ 39.34 40.30 38.09 32.45 Reading dBuV/ 39.41 41.58 36.07	mg Antenna /m dB 26.21 25.75 31.40 36.93 Test channe g Antenna m dB 26.27 27.49 31.45 36.47 Test channe	Cable 4.08 4.87 8.64 10.87 Cable dB 4.10 5.82 8.74 10.43	e Preamp dB 36.30 37.20 34.39 32.85 CH11 e Preamp dB 36.30 37.27 34.52 33.69 CH11	dBuV/ 33.33 33.72 43.74 47.40 	Polarity Limit Ov M dBuV/m li 74.00 -40 74.00 -30 74.00 -20 Polarity Limit Ov M dBuV/m li 74.00 -40 74.00 -30 74.00 -30 74.00 -30 74.00 -36 74.00 -32 74.00 -26 Polarity	er Remark mit 0.67 Peak 0.28 Peak 0.26 Peak 0.60 Peak Horizontal er Remark mit 0.52 Peak 0.38 Peak 0.26 Peak	
	1 2 3 4 Mark 1 2 3 4	MHz 1335.01 1887.02 4874.47 7958.16 802.11b Frequency MHz 1345.31 2595.02 4924.20 7564.29	dBuV/ 39.34 40.30 38.09 32.45 Reading dBuV/ 39.41 41.58 36.07 33.98	mg Antenna /m dB 26.21 25.75 31.40 36.93 Test channe g Antenna m dB 26.27 27.49 31.45 36.47 Test channe	Cable 4.08 4.87 8.64 10.87 Cable dB 4.10 5.82 8.74 10.43	e Preamp dB 36.30 37.20 34.39 32.85 CH11 e Preamp dB 36.30 37.27 34.52 33.69 CH11	dBuV/ 33.33 33.72 43.74 47.40 Leve dBuV/ 33.48 37.62 41.74 47.19	Polarity Limit	rer Remark mit 1.67 Peak 1.28 Peak 1.26 Peak 1.60 Peak Horizontal er Remark mit 1.52 Peak 1.38 Peak 1.26 Peak 1.26 Peak 1.38 Peak 1.26 Peak 1.81 Peak	
	1 2 3 4 Mark 1 2 3 4	MHz 1335.01 1887.02 4874.47 7958.16 802.11b Frequency MHz 1345.31 2595.02 4924.20 7564.29 802.11b	dBuV/ 39.34 40.30 38.09 32.45 Reading dBuV/ 39.41 41.58 36.07 33.98	mg Antenna /m dB 26.21 25.75 31.40 36.93 Test channe g Antenna m dB 26.27 27.49 31.45 36.47 Test channe	Cable 4.08 4.87 8.64 10.87 Cable dB 4.10 5.82 8.74 10.43	e Preamp dB 36.30 37.20 34.39 32.85 CH11 e Preamp dB 36.30 37.27 34.52 33.69 CH11 e Preamp dB	dBuV/ 33.33 33.72 43.74 47.40 Leve dBuV/ 33.48 37.62 41.74 47.19	Polarity Limit	rer Remark mit 0.67 Peak 0.28 Peak 0.26 Peak 0.60 Peak Horizontal er Remark mit 0.52 Peak 0.38 Peak 0.26 Peak 0.38 Peak 0.26 Peak 0.38 Peak	
	1 2 3 4 Mark 1 2 3 4	MHz 1335.01 1887.02 4874.47 7958.16 802.11b Frequency MHz 1345.31 2595.02 4924.20 7564.29 802.11b Frequency MHz	dBuV/ 39.34 40.30 38.09 32.45 Reading dBuV/ 39.41 41.58 36.07 33.98	mg Antenna /m dB 26.21 25.75 31.40 36.93 Test channe B Antenna m dB 26.27 27.49 31.45 36.47 Test channe	Cable dB 4.10 5.82 8.74 10.43 Cable dB	e Preamp dB 36.30 37.20 34.39 32.85 CH11 e Preamp dB 36.30 37.27 34.52 33.69 CH11 e Preamp dB 36.30	dBuV/ 33.33 33.72 43.74 47.40 Leve dBuV/ 33.48 37.62 41.74 47.19	Polarity Limit Over 11	rer Remark mit 0.67 Peak 0.28 Peak 0.26 Peak 0.60 Peak Horizontal er Remark mit 0.52 Peak 0.38 Peak 0.26 Peak 0.38 Peak 0.40 Peak 0.50	
	1 2 3 4 Mark 1 2 3 4	MHz 1335.01 1887.02 4874.47 7958.16 802.11b Frequency MHz 1345.31 2595.02 4924.20 7564.29 802.11b Frequency MHz 1335.01	dBuV/ 39.34 40.30 38.09 32.45 Reading dBuV/ 39.41 41.58 36.07 33.98 Reading dBuV/ 39.34	mg Antenna /m dB 26.21 25.75 31.40 36.93 Test channel g Antenna m dB 26.27 27.49 31.45 36.47 Test channel	Cable 4.08 4.87 8.64 10.87 Cable 4.10 5.82 8.74 10.43 Cable 68 4.08	e Preamp dB 36.30 37.20 34.39 32.85 CH11 e Preamp dB 36.30 37.27 34.52 33.69 CH11 e Preamp dB 36.30 37.27	dBuV/ 33.33 33.72 43.74 47.40 Leve dBuV/ 33.48 37.62 41.74 47.19 Leve dBuV/ 33.33	Polarity Limit Over 11	er Remark mit 0.67 Peak 0.28 Peak 0.26 Peak 0.60 Peak Horizontal er Remark mit 0.52 Peak 0.38 Peak 0.26 Peak 0.40 Peak 0.52 Peak 0.54 Peak 0.55 Peak 0.55 Peak 0.56 Peak 0.57 Peak	

Report No.: CHTEW21110195 Page: 30 of 33 Issued: 2021-11-23

Туре		802.11g		Test channel		CH01		Polarity	Horizontal
	Mark	Frequency	Readin		Cable	Preamp	Leve		ver Remark
		MHz	dBuV/		dB	dB	dBuV/	•	imit
	1	2376.69	43.75	27.75	5.51	37.23	39.78	74.00 -34	1.22 Peak
	2	2510.89	46.24	27.40	5.68	37.29	42.03	74.00 -31	l.97 Peak
	3	3610.36	41.15	29.40	6.92	37.01	40.46	74.00 -33	3.54 Peak
	4	7423.01	33.52	36.60	10.31	33.85	46.58	74.00 -27	7.42 Peak
Туре		802.11g		Test channel		CH01		Polarity	Vertical
	Mark	Frequency	Reading	g Antenna	Cable	Preamp	Leve	l Limit Ov	er Remark
		MHz	dBuV/		dB	dB	dBuV/		mit
	1	1799.95	40.78	25.40	4.76	37.11	33.83		.17 Peak
	2	2592.17	41.64	27.48	5.82	37.26	37.68		.32 Peak
	3	3620.85	39.18	29.40	6.93	37.02	38.49		.51 Peak
	4	6581.18	32.96	34.26	9.78	34.07	42.93		.07 Peak
Typo		802.11g	32.75	Test channel		CH06		Polarity	Horizontal
Туре		002.11g		Test Charline	,	71100		Fularity	Honzoniai
	Mark	Frequency	Readin	- Antonno	Cable	Doormo	Leve	l Limit Ov	er Remark
	riark				dB				mit
		MHz	dBuV/			dB	dBuV/		
	1	2376.69	43.75	27.75	5.51	37.23	39.78		.22 Peak
	2	2510.89	46.24	27.40	5.68	37.29	42.03		.97 Peak
	3	3647.20	40.46	29.40	6.96	37.07	39.75		.25 Peak
	4	6774.86	33.43	34.40	9.91	34.32	43.42	74.00 -30	.58 Peak
Typo									
Туре		802.11g		Test channel	(CH06		Polarity	Vertical
туре		802.11g		Test channel		CH06		Polarity	Vertical
Type	Mark	802.11g Frequency	Readir		Cable		Leve		Vertical ver Remark
Туре	Mark		Readir dBuV/	ng Antenna			Leve dBuV/	el Limit Ov	
туре	Mark 1	Frequency		ng Antenna	Cable	Preamp		Limit Ov dBuV/m li	ver Remark
туре		Frequency MHz 1799.95	dBuV/ 40.78	ng Antenna /m dB 25.40	Cable dB 4.76	Preamp dB 37.11	dBuV/ 33.83	El Limit Ov /m dBuV/m li 74.00 -40	er Remark mit 0.17 Peak
Туре	1 2	Frequency MHz 1799.95 2592.17	dBuV/ 40.78 41.64	ng Antenna /m dB 25.40 27.48	Cable dB 4.76 5.82	Preamp dB 37.11 37.26	dBuV/ 33.83 37.68	l Limit Ov /m dBuV/m li 74.00 -40 74.00 -36	er Remark mit 0.17 Peak 6.32 Peak
Туре	1	Frequency MHz 1799.95 2592.17 3610.36	dBuV/ 40.78 41.64 41.09	ng Antenna /m dB 25.40 27.48 29.40	Cable dB 4.76 5.82 6.92	Preamp dB 37.11 37.26 37.01	dBuV/ 33.83 37.68 40.40	el Limit Ov /m dBuV/m li 74.00 -40 74.00 -36 74.00 -33	er Remark mit 0.17 Peak 0.32 Peak 0.60 Peak
	1 2 3	Frequency MHz 1799.95 2592.17 3610.36 8004.46	dBuV/ 40.78 41.64	ng Antenna /m dB 25.40 27.48 29.40 37.11	Cable dB 4.76 5.82 6.92 10.91	Preamp dB 37.11 37.26 37.01 32.84	dBuV/ 33.83 37.68	Limit Ov /m dBuV/m li 74.00 -40 74.00 -36 74.00 -33 74.00 -26	rer Remark mit 0.17 Peak 6.32 Peak 6.60 Peak 6.21 Peak
Туре	1 2 3	Frequency MHz 1799.95 2592.17 3610.36	dBuV/ 40.78 41.64 41.09	ng Antenna /m dB 25.40 27.48 29.40	Cable dB 4.76 5.82 6.92 10.91	Preamp dB 37.11 37.26 37.01	dBuV/ 33.83 37.68 40.40	el Limit Ov /m dBuV/m li 74.00 -40 74.00 -36 74.00 -33	er Remark mit 0.17 Peak 0.32 Peak 0.60 Peak
	1 2 3 4	Frequency MHz 1799.95 2592.17 3610.36 8004.46	dBuV/ 40.78 41.64 41.09 32.61	ng Antenna /m dB 25.40 27.48 29.40 37.11 Test channel	Cable dB 4.76 5.82 6.92 10.91	Preamp dB 37.11 37.26 37.01 32.84	dBuV/ 33.83 37.68 40.40 47.79	Polarity	rer Remark mit 0.17 Peak 0.32 Peak 0.60 Peak 0.21 Peak
	1 2 3	Frequency MHz 1799.95 2592.17 3610.36 8004.46 802.11g	dBuV/ 40.78 41.64 41.09 32.61	ng Antenna /m dB 25.40 27.48 29.40 37.11 Test channel	Cable dB 4.76 5.82 6.92 10.91	Preamp dB 37.11 37.26 37.01 32.84 CH11	dBuV/ 33.83 37.68 40.40 47.79	El Limit Ov /m dBuV/m li 74.00 -40 74.00 -36 74.00 -33 74.00 -26 Polarity	ver Remark mit 0.17 Peak 6.32 Peak 6.60 Peak 6.21 Peak Horizontal
	1 2 3 4	Frequency MHz 1799.95 2592.17 3610.36 8004.46 802.11g	dBuV/ 40.78 41.64 41.09 32.61 Readir dBuV/	ng Antenna /m dB 25.40 27.48 29.40 37.11 Test channel	Cable dB 4.76 5.82 6.92 10.91	Preamp dB 37.11 37.26 37.01 32.84 CH11	dBuV/ 33.83 37.68 40.40 47.79 Leve dBuV/	Polarity Limit Ov M dBuV/m li 74.00 -40 74.00 -36 74.00 -26 Polarity	rer Remark mit 0.17 Peak 6.32 Peak 6.60 Peak 6.21 Peak Horizontal
	1 2 3 4	Frequency MHz 1799.95 2592.17 3610.36 8004.46 802.11g Frequency MHz 2376.69	dBuV/ 40.78 41.64 41.09 32.61 Readir dBuV/ 43.75	ng Antenna /m dB 25.40 27.48 29.40 37.11 Test channel	Cable dB 4.76 5.82 6.92 10.91 (Cable dB 5.51	Preamp dB 37.11 37.26 37.01 32.84 CH11 Preamp dB 37.23	dBuV/ 33.83 37.68 40.40 47.79 Leve dBuV/ 39.78	Polarity Limit Ov /m dBuV/m li 74.00 -40 74.00 -36 74.00 -26 Polarity Limit Ov /m dBuV/m li 74.00 -34	rer Remark mit 0.17 Peak 0.32 Peak 0.60 Peak 0.21 Peak Horizontal ver Remark imit 1.22 Peak
	1 2 3 4	Frequency MHz 1799.95 2592.17 3610.36 8004.46 802.11g Frequency MHz 2376.69 2510.89	dBuV/ 40.78 41.64 41.09 32.61 Readir dBuV/ 43.75 46.24	mg Antenna /m dB 25.40 27.48 29.40 37.11 Test channel	Cable dB 4.76 5.82 6.92 10.91 (Cable dB 5.51 5.68	Preamp dB 37.11 37.26 37.01 32.84 CH11 Preamp dB 37.23 37.29	dBuV/ 33.83 37.68 40.40 47.79 Leve dBuV/ 39.78 42.03	Polarity Limit Ov /m dBuV/m li 74.00 -40 74.00 -30 74.00 -20 Polarity Limit Ov /m dBuV/m li 74.00 -34 74.00 -34	rer Remark mit 0.17 Peak 6.32 Peak 6.60 Peak 6.21 Peak Horizontal ver Remark mit 4.22 Peak 6.97 Peak
	1 2 3 4	Frequency MHz 1799.95 2592.17 3610.36 8004.46 802.11g Frequency MHz 2376.69 2510.89 3967.25	dBuV/ 40.78 41.64 41.09 32.61 Readir dBuV/ 43.75 46.24 40.62	mg Antenna /m dB 25.40 27.48 29.40 37.11 Test channel mg Antenna /m dB 27.75 27.40 29.90	Cable dB 4.76 5.82 6.92 10.91 Cable dB 5.51 5.68 7.37	Preamp dB 37.11 37.26 37.01 32.84 CH11 Preamp dB 37.23 37.29 36.59	dBuV/ 33.83 37.68 40.40 47.79 Leve dBuV/ 39.78 42.03 41.30	Polarity Limit Ov M dBuV/m li 74.00 -40 74.00 -30 74.00 -20 Polarity Limit Ov M dBuV/m li 74.00 -34 74.00 -34 74.00 -34 74.00 -33 74.00 -33	rer Remark mit 0.17 Peak 6.32 Peak 6.60 Peak 6.21 Peak Horizontal rer Remark imit 4.22 Peak 6.97 Peak 6.70 Peak
	1 2 3 4	Frequency MHz 1799.95 2592.17 3610.36 8004.46 802.11g Frequency MHz 2376.69 2510.89	dBuV/ 40.78 41.64 41.09 32.61 Readir dBuV/ 43.75 46.24	mg Antenna /m dB 25.40 27.48 29.40 37.11 Test channel	Cable dB 4.76 5.82 6.92 10.91 Cable dB 5.51 5.68 7.37	Preamp dB 37.11 37.26 37.01 32.84 CH11 Preamp dB 37.23 37.29	dBuV/ 33.83 37.68 40.40 47.79 Leve dBuV/ 39.78 42.03	Polarity Limit Ov M dBuV/m li 74.00 -40 74.00 -30 74.00 -20 Polarity Limit Ov M dBuV/m li 74.00 -34 74.00 -34 74.00 -34 74.00 -33 74.00 -33	rer Remark mit 0.17 Peak 6.32 Peak 6.60 Peak 6.21 Peak Horizontal ver Remark mit 4.22 Peak 6.97 Peak
	1 2 3 4	Frequency MHz 1799.95 2592.17 3610.36 8004.46 802.11g Frequency MHz 2376.69 2510.89 3967.25	dBuV/ 40.78 41.64 41.09 32.61 Readir dBuV/ 43.75 46.24 40.62	mg Antenna /m dB 25.40 27.48 29.40 37.11 Test channel mg Antenna /m dB 27.75 27.40 29.90	Cable 6.92 10.91 (Cable dB 5.51 5.58 7.37 11.16	Preamp dB 37.11 37.26 37.01 32.84 CH11 Preamp dB 37.23 37.29 36.59	dBuV/ 33.83 37.68 40.40 47.79 Leve dBuV/ 39.78 42.03 41.30	Polarity Limit Ov M dBuV/m li 74.00 -40 74.00 -30 74.00 -20 Polarity Limit Ov M dBuV/m li 74.00 -34 74.00 -34 74.00 -34 74.00 -33 74.00 -33	rer Remark mit 0.17 Peak 6.32 Peak 6.60 Peak 6.21 Peak Horizontal rer Remark imit 4.22 Peak 6.97 Peak 6.70 Peak
Туре	1 2 3 4	Frequency MHz 1799.95 2592.17 3610.36 8004.46 802.11g Frequency MHz 2376.69 2510.89 3967.25 8086.13	dBuV/ 40.78 41.64 41.09 32.61 Readir dBuV/ 43.75 46.24 40.62	ng Antenna /m dB 25.40 27.48 29.40 37.11 Test channel ng Antenna /m dB 27.75 27.40 29.90 37.20	Cable 6.92 10.91 Cable dB 5.51 5.58 7.37 11.16	Preamp dB 37.11 37.26 37.01 32.84 CH11 Preamp dB 37.23 37.29 36.59 33.17	dBuV/ 33.83 37.68 40.40 47.79 Leve dBuV/ 39.78 42.03 41.30	Polarity Limit	rer Remark mit 0.17 Peak 6.32 Peak 6.60 Peak 6.21 Peak Horizontal rer Remark imit 4.22 Peak 1.97 Peak 2.70 Peak 5.63 Peak
Туре	1 2 3 4	Frequency MHz 1799.95 2592.17 3610.36 8004.46 802.11g Frequency MHz 2376.69 2510.89 3967.25 8086.13	dBuV/ 40.78 41.64 41.09 32.61 Readir dBuV/ 43.75 46.24 40.62	mg Antenna /m dB 25.40 27.48 29.40 37.11 Test channel mg Antenna /m dB 27.75 27.40 29.90 37.20 Test channel	Cable 6.92 10.91 Cable dB 5.51 5.58 7.37 11.16	Preamp dB 37.11 37.26 37.01 32.84 CH11 Preamp dB 37.23 37.29 36.59 33.17	dBuV/ 33.83 37.68 40.40 47.79 Leve dBuV/ 39.78 42.03 41.30	Polarity Plant	rer Remark mit 0.17 Peak 6.32 Peak 6.60 Peak 6.21 Peak Horizontal rer Remark imit 4.22 Peak 1.97 Peak 2.70 Peak 5.63 Peak
Туре	1 2 3 4	Frequency MHz 1799.95 2592.17 3610.36 8004.46 802.11g Frequency MHz 2376.69 2510.89 3967.25 8086.13 802.11g	dBuV/ 40.78 41.64 41.09 32.61 Readir dBuV/ 43.75 46.24 40.62 32.18	mg Antenna /m dB 25.40 27.48 29.40 37.11 Test channel mg Antenna /m dB 27.75 27.40 29.90 37.20 Test channel	Cable dB 4.76 5.82 6.92 10.91 Cable dB 5.51 5.68 7.37 11.16	Preamp dB 37.11 37.26 37.01 32.84 CH11 Preamp dB 37.23 37.29 36.59 33.17	dBuV/ 33.83 37.68 40.40 47.79 Leve dBuV/ 39.78 42.03 41.30 47.37	Polarity	rer Remark mit 0.17 Peak 6.32 Peak 6.60 Peak 6.21 Peak Horizontal ver Remark mit 4.22 Peak 6.97 Peak 6.70 Peak 6.63 Peak Vertical
Туре	1 2 3 4	Frequency MHz 1799.95 2592.17 3610.36 8004.46 802.11g Frequency MHz 2376.69 2510.89 3967.25 8086.13 802.11g	dBuV/ 40.78 41.64 41.09 32.61 Readir dBuV/ 43.75 46.24 40.62 32.18	mg Antenna /m dB 25.40 27.48 29.40 37.11 Test channel mg Antenna /m dB 27.75 27.40 29.90 37.20 Test channel	Cable dB 4.76 6.92 10.91 Cable dB 5.51 5.68 7.37 11.16 Cable	Preamp dB 37.11 37.26 37.01 32.84 CH11 Preamp dB 37.23 37.29 36.59 33.17 CH11	dBuV/ 33.83 37.68 40.40 47.79 Leve dBuV/ 39.78 42.03 41.30 47.37	Polarity	rer Remark mit 0.17 Peak 6.32 Peak 6.60 Peak 6.21 Peak Horizontal ver Remark mit 4.22 Peak 6.70 Peak 6.63 Peak Vertical er Remark
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 1799.95 2592.17 3610.36 8004.46 802.11g Frequency MHz 2376.69 2510.89 3967.25 8086.13 802.11g Frequency MHz	dBuV/ 40.78 41.64 41.09 32.61 Readir dBuV/ 43.75 46.24 40.62 32.18	mg Antenna /m dB 25.40 27.48 29.40 37.11 Test channel mg Antenna /m dB 27.75 27.40 29.90 37.20 Test channel g Antenna m dB 25.40	Cable dB 4.76 Cable dB 7.37 11.16 Cable dB 4.76	Preamp dB 37.11 37.26 37.01 32.84 CH11 Preamp dB 37.23 37.29 36.59 33.17 CH11 Preamp dB	dBuV/ 33.83 37.68 40.40 47.79 Leve dBuV/ 39.78 42.03 41.30 47.37 Leve dBuV/	Polarity Polarity	rer Remark mit 0.17 Peak 6.32 Peak 6.60 Peak 6.21 Peak Horizontal ver Remark imit 4.22 Peak 2.70 Peak 6.63 Peak Vertical er Remark mit
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 1799.95 2592.17 3610.36 8004.46 802.11g Frequency MHz 2376.69 2510.89 3967.25 8086.13 802.11g Frequency MHz 1799.95	dBuV/ 40.78 41.64 41.09 32.61 Readir dBuV/ 43.75 46.24 40.62 32.18 Readin dBuV/ 40.78 41.64	mg Antenna /m dB 25.40 27.48 29.40 37.11 Test channel 27.75 27.40 29.90 37.20 Test channel g Antenna m dB 25.40 27.48	Cable dB 4.76 5.82 Cable dB 7.37 11.16 Cable dB 4.76 5.82	Preamp dB 37.11 37.26 37.01 32.84 CH11 Preamp dB 37.23 37.29 36.59 33.17 CH11 Preamp dB 37.11 37.26	dBuV/ 33.83 37.68 40.40 47.79 Leve dBuV/ 39.78 42.03 41.30 47.37 Leve dBuV/ 33.83 37.68	Polarity Polarity	rer Remark mit 0.17 Peak 6.32 Peak 6.60 Peak 6.21 Peak Horizontal ver Remark imit 4.22 Peak 1.97 Peak 2.70 Peak 6.63 Peak Vertical er Remark mit .17 Peak .32 Peak
Туре	1 2 3 4 4 Mark 1 2 3 4	Frequency MHz 1799.95 2592.17 3610.36 8004.46 802.11g Frequency MHz 2376.69 2510.89 3967.25 8086.13 802.11g Frequency MHz 1799.95 2592.17	dBuV/ 40.78 41.64 41.09 32.61 Readir dBuV/ 43.75 46.24 40.62 32.18 Readin dBuV/ 40.78	mg Antenna /m dB 25.40 27.48 29.40 37.11 Test channel 27.75 27.40 29.90 37.20 Test channel G Antenna /m dB 27.75 27.40 29.90 37.20 Test channel G Antenna m dB 25.40 27.48 29.90	Cable dB 4.76 Cable dB 7.37 11.16 Cable dB 4.76	Preamp dB 37.11 37.26 37.01 32.84 CH11 Preamp dB 37.23 37.29 36.59 33.17 CH11 Preamp dB 37.11	dBuV/ 33.83 37.68 40.40 47.79 Leve dBuV/ 39.78 42.03 41.30 47.37 Leve dBuV/ 33.83	Polarity Polarity	rer Remark mit 0.17 Peak 6.32 Peak 6.60 Peak 6.21 Peak Horizontal //er Remark imit 4.22 Peak 2.70 Peak 6.63 Peak Vertical er Remark mit .17 Peak

Report No.: CHTEW21110195 Page: 31 of 33 Issued: 2021-11-23

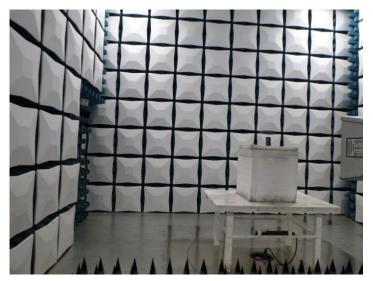
Туре		802.11n(H	T20)	Test channel		CH01		Polarity		Horizontal	
	Mark	Frequency MHz	Readin /ABuV		Cable dB	Preamp dB	Leve dBuV/		Ove		
	1	2366.26	42.48	27.77	5.50	37.26	38.49	74.00		51 Peak	
	2	2516.41	45.18	27.40	5.69	37.29	40.98	74.00		02 Peak	
	3	5450.35	33.71	31.70	9.35	32.75	42.01	74.00	-31.	.99 Peak	
	4	7487.89	31.74	36.60	10.42	33.67	45.09	74.00	-28.	91 Peak	
Туре		802.11n(H	T20)	Test channel	ı	CH01		Polarity		Vertical	
	Mark	Frequency	Readir	ng Antenna	Cable	Preamp	Leve	l Limit	0ve	r Remark	
		MHz	dBuV/		dB	dB	dBuV/	m dBuV/m	lim:	it	
	1	1337.94	39.41	26.23	4.09	36.26	33.47	74.00	-40.	53 Peak	
	2	2805.54	39.30	28.42	6.04	37.38	36.38	74.00	-37.	62 Peak	
	3	3732.82	39.98	29.47	7.05	37.07	39.43	74.00	-34.	57 Peak	
	4	7358.70	31.24	36.52	10.16	34.05	43.87	74.00	-30.	13 Peak	
Туре		802.11n(H	T20)	Test channel	1 0	CH06		Polarity		Horizontal	
											•
	Mark	Frequency			Cable		Leve		0ve	er Remark	
		MHz	dBuV/	m dB	dB	dB	dBuV/	m dBuV/m	lim	nit	
	1	2366.26	42.48	27.77	5.50	37.26	38.49	74.00	-35.	51 Peak	
	2	2516.41	45.18	27.40	5.69	37.29	40.98	74.00	-33.	.02 Peak	
	3	3652.49	39.58	29.40	6.97	37.09	38.86	74.00	-35.	14 Peak	
	4	7242.24	32.90	36.42	10.01	33.37	45.96	74.00	-28.	.04 Peak	
Туре		802.11n(H	T20)	Test channel		CH06		Polarity		Vertical	
Туре		802.11n(H	T20)	Test channel							
Туре	Mark	802.11n(H		ng Antenna		CH06		Polarity	Ove	Vertical r Remark	
Туре	Mark 1	Frequency	Readi	ng Antenna	Cable	CH06 Preamp	Leve	Polarity	 Ove	Vertical er Remark	
Type		Frequency MHz	Readir dBuV,	ng Antenna /m dB	Cable	Preamp	Leve dBuV/	Polarity	Ove	Vertical er Remark mit 53 Peak	
Туре	1	Frequency MHz 1337.94	Readin dBuV, 39.41	ng Antenna /m dB 26.23	Cable dB 4.09	Preamp dB 36.26	Leve dBuV/ 33.47	Polarity Limit m dBuV/m 74.00	Ove lim -40.	Vertical er Remark sit 53 Peak 62 Peak	
Туре	1 2	Frequency MHz 1337.94 2805.54	Readir dBuV, 39.41	ng Antenna /m dB 26.23 28.42	Cable dB 4.09 6.04	Preamp dB 36.26 37.38	Leve dBuV/ 33.47 36.38	Polarity Limit 'm dBuV/m 74.00 74.00	Ove lim -40. -37.	Vertical er Remark sit 53 Peak 62 Peak	•
Type	1 2 3	Frequency MHz 1337.94 2805.54 5843.28	Readir dBuV, 39.41 39.30 33.92 33.20	ng Antenna /m dB 26.23 28.42 32.17	Cable dB 4.09 6.04 9.59 10.91	Preamp dB 36.26 37.38 33.43	Leve dBuV/ 33.47 36.38 42.25	Polarity l Limit /m dBuV/m	Ove lim -40. -37.	r Remark nit 53 Peak 62 Peak 75 Peak	
	1 2 3	Frequency MHz 1337.94 2805.54 5843.28 8004.46	Readir dBuV, 39.41 39.30 33.92 33.20	ng Antenna /m dB 26.23 28.42 32.17 37.11 Test channel	Cable dB 4.09 6.04 9.59 10.91	Preamp dB 36.26 37.38 33.43 32.84	Leve dBuV/ 33.47 36.38 42.25	Polarity Limit M dBuV/m 74.00 74.00 74.00 74.00 74.00 Polarity	Ove lim -40. -37.	Vertical Per Remark it Fraginal Peak Fraginal Peak Fraginal Peak Peak Peak Peak	
	1 2 3	Frequency MHz 1337.94 2805.54 5843.28 8004.46	Readir dBuV, 39.41 39.30 33.92 33.20	ng Antenna /m dB 26.23 28.42 32.17 37.11 Test channel	Cable dB 4.09 6.04 9.59 10.91 Cable dB	Preamp dB 36.26 37.38 33.43 32.84 CH11	Leve dBuV/ 33.47 36.38 42.25 48.38	Polarity Limit M dBuV/m 74.00 74.00 74.00 74.00 Polarity	Ove lim -40. -37.	Vertical Remark Remark Peak Peak Peak Peak Peak Horizontal	
	1 2 3 4	Frequency MHz 1337.94 2805.54 5843.28 8004.46 802.11n(H	Readir dBuV, 39.41 39.30 33.92 33.20 T20)	ng Antenna /m dB 26.23 28.42 32.17 37.11 Test channel	Cable dB 4.09 6.04 9.59 10.91 Cable dB 5.50	Preamp dB 36.26 37.38 33.43 32.84 CH11	Leve dBuV/ 33.47 36.38 42.25 48.38	Polarity 1 Limit	Ove lim -40. -37. -31. -25. Ove	Vertical Remark Remark Peak Peak Peak Peak Peak Horizontal	
	1 2 3 4	Frequency MHz 1337.94 2805.54 5843.28 8004.46 802.11n(H	Readir dBuV, 39.41 39.30 33.92 33.20 T20)	ng Antenna /m dB 26.23 28.42 32.17 37.11 Test channel ng Antenna /m dB 27.77	Cable dB 4.09 6.04 9.59 10.91 Cable dB 5.50 5.69	Preamp dB 36.26 37.38 33.43 32.84 CH11 Preamp dB 37.26 37.29	Leve dBuV/ 33.47 36.38 42.25 48.38	Polarity 1 Limit /m dBuv/m	Ove lim -40. -37. -31. -25. Ove lim -35.	Vertical Remark Remark Peak Peak Peak Peak Horizontal Remark	
	1 2 3 4 Mark	Frequency MHz 1337.94 2805.54 5843.28 8004.46 802.11n(H	Readir dBuV, 39.41 39.30 33.92 33.20 T20)	ng Antenna /m dB 26.23 28.42 32.17 37.11 Test channel ng Antenna /m dB 27.77 27.40	Cable dB 4.09 6.04 9.59 10.91 Cable dB 5.50	Preamp dB 36.26 37.38 33.43 32.84 CH11	Leve dBuV/ 33.47 36.38 42.25 48.38 Leve dBuV/ 38.49	Polarity 1 Limit	Ove lim -40. -37. -31. -25. Ove lim -35.	Vertical Per Remark Per Remark Peak Peak Peak Horizontal Remark Per Remark Peak Peak	
	1 2 3 4 Mark	Frequency MHz 1337.94 2805.54 5843.28 8004.46 802.11n(H Frequency MHz 2366.26 2516.41	Readir dBuV, 39.41 39.30 33.92 33.20 T20) 	ng Antenna /m dB 26.23 28.42 32.17 37.11 Test channel ng Antenna /m dB 27.77 27.40	Cable dB 4.09 6.04 9.59 10.91 Cable dB 5.50 5.69	Preamp dB 36.26 37.38 33.43 32.84 CH11 Preamp dB 37.26 37.29	Leve dBuV/ 33.47 36.38 42.25 48.38 Leve dBuV/ 38.49 40.98	Polarity 1 Limit	Ove lim -40. -37. -31. -25. Ove lim -35. -33.	Vertical Per Remark Peak Peak Peak Peak Horizontal Remark Remark Peak Peak Peak Peak Peak	
	1 2 3 4 Mark	Frequency MHz 1337.94 2805.54 5843.28 8004.46 802.11n(H Frequency MHz 2366.26 2516.41 6210.26	Readir dBuV, 39.41 39.30 33.92 33.20 T20) 	ng Antenna /m dB 26.23 28.42 32.17 37.11 Test channel ng Antenna /m dB 27.77 27.40 32.82	Cable dB 4.09 6.04 9.59 10.91 Cable dB 5.50 5.69 9.74 10.02	Preamp dB 36.26 37.38 33.43 32.84 CH11 Preamp dB 37.26 37.29 34.13	Leve dBuV/ 33.47 36.38 42.25 48.38 Leve dBuV/ 38.49 40.98 42.50	Polarity 1 Limit	Ove lim -40. -37. -31. -25. Ove lim -35. -33.	r Remark 11	I
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 1337.94 2805.54 5843.28 8004.46 802.11n(H Frequency MHz 2366.26 2516.41 6210.26 7158.70 802.11n(H	Readir dBuV, 39.41 39.30 33.92 33.20 T20) Readir dBuV, 42.48 45.18 34.07 32.37	ng Antenna /m dB 26.23 28.42 32.17 37.11 Test channel ng Antenna /m dB 27.77 27.40 32.82 36.33 Test channel	Cable 4.09 6.04 9.59 10.91 Cable dB 5.50 5.69 9.74 10.02	Preamp dB 36.26 37.38 33.43 32.84 CH11 Preamp dB 37.26 37.29 34.13 33.19 CH11	Leve dBuV/ 33.47 36.38 42.25 48.38 Leve dBuV/ 38.49 40.98 42.50 45.53	Polarity 21	Ove 1im -40. -37. -31. -25. Ove 1im -35. -33. -31. -28.	Vertical Per Remark 153 Peak 62 Peak 75 Peak 62 Peak Horizontal Per Remark 151 Peak 151 Peak 152 Peak 154 Peak 157 Peak 158 Peak 159 Peak 159 Peak 150 Peak	I .
Туре	1 2 3 4 Mark	Frequency MHz 1337.94 2805.54 5843.28 8004.46 802.11n(H Frequency MHz 2366.26 2516.41 6210.26 7158.70 802.11n(H	Readir dBuV, 39.41 39.30 33.92 33.20 T20) Readir dBuV, 42.48 45.18 34.07 32.37	ng Antenna /m dB 26.23 28.42 32.17 37.11 Test channel ng Antenna /m dB 27.77 27.40 32.82 36.33 Test channel	Cable 4.09 6.04 9.59 10.91 Cable dB 5.50 5.69 9.74 10.02 Cable	Preamp dB 36.26 37.38 33.43 32.84 CH11 Preamp dB 37.26 37.29 34.13 33.19 CH11	Leve dBuV/ 33.47 36.38 42.25 48.38 Leve dBuV/ 38.49 40.98 42.50 45.53	Polarity 21 Limit 7m dBuV/m 74.00 74.00 74.00 74.00 Polarity 21 Limit 7m 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 Polarity	Ove 1im -40. -37. -31. -25. Ove 1im -35. -33. -31. -28.	Vertical Per Remark 153 Peak 162 Peak 162 Peak 162 Peak Horizontal Per Remark 151 Peak 162 Peak 164 Peak 175 Peak 186 Peak 187 Peak 188 Peak 188 Peak 189 Peak 1	I
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 1337.94 2805.54 5843.28 8004.46 802.11n(H Frequency MHz 2366.26 2516.41 6210.26 7158.70 802.11n(H	Readir dBuV, 39.41 39.30 33.92 33.20 T20) Readir dBuV, 42.48 45.18 34.07 32.37	ng Antenna /m dB 26.23 28.42 32.17 37.11 Test channel ng Antenna /m dB 27.77 27.40 32.82 36.33 Test channel	Cable dB 4.09 6.04 9.59 10.91 Cable dB 5.50 5.69 9.74 10.02 Cable dB	Preamp dB 36.26 37.38 33.43 32.84 CH11 Preamp dB 37.26 37.29 34.13 33.19 CH11	Leve dBuV/ 33.47 36.38 42.25 48.38 Leve dBuV/ 38.49 40.98 42.50 45.53	Polarity 21	Ove lim:	Vertical Per Remark 153 Peak 162 Peak 162 Peak 162 Peak Horizontal Per Remark 151 Peak 162 Peak 164 Peak 175 Peak 186 Peak 187 Peak 188 Peak 189 Peak 1	I
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 1337.94 2805.54 5843.28 8004.46 802.11n(H Frequency MHz 2366.26 2516.41 6210.26 7158.70 802.11n(H	Readir dBuV, 39.41 39.30 33.92 33.20 T20) Readir dBuV, 42.48 45.18 34.07 32.37	ng Antenna /m dB 26.23 28.42 32.17 37.11 Test channel ng Antenna /m dB 27.77 27.40 32.82 36.33 Test channel	Cable 4.09 6.04 9.59 10.91 Cable dB 5.50 5.69 9.74 10.02 Cable	Preamp dB 36.26 37.38 33.43 32.84 CH11 Preamp dB 37.26 37.29 34.13 33.19 CH11	Leve dBuV/ 33.47 36.38 42.25 48.38 Leve dBuV/ 38.49 40.98 42.50 45.53	Polarity 21 Limit 7m dBuV/m 74.00 74.00 74.00 74.00 Polarity 21 Limit 7m 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 Polarity	Ove 1im -40. -37. -31. -25. Ove 1im -35. -33. -31. -28.	Vertical Per Remark 153 Peak 162 Peak 162 Peak 162 Peak Horizontal Per Remark 151 Peak 162 Peak 164 Peak 175 Peak 186 Peak 187 Peak 188 Peak 189 Peak 1	- -
Туре	1 2 3 4 Mark Mark 1 2 3 4	Frequency MHz 1337.94 2805.54 5843.28 8004.46 802.11n(H Frequency MHz 2366.26 2516.41 6210.26 7158.70 802.11n(H Frequency MHz 1337.94 2805.54	Readir dBuV, 39.41 39.30 33.92 33.20 T20) Readir dBuV, 42.48 45.18 34.07 32.37 T20)	ng Antenna /m dB 26.23 28.42 32.17 37.11 Test channel ng Antenna /m dB 27.77 27.40 32.82 36.33 Test channel ng Antenna /m dB 26.23 28.42	Cable dB 4.09 6.04 9.59 10.91 Cable dB 5.50 5.69 9.74 10.02 Cable dB	Preamp dB 36.26 37.38 32.84 CH11 Preamp dB 37.26 37.29 34.13 33.19 CH11 Preamp dB 36.26 37.38	Leve dBuV/ 33.47 36.38 42.25 48.38 42.25 48.38 42.50 40.98 42.50 45.53 Leve dBuV/ 33.47 36.38	Polarity 21	Over lim: -40.5	Vertical Remark Remark Peak Peak Peak Peak Horizontal Remark Peak Peak Vertical Remark	- -
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 1337.94 2805.54 5843.28 8004.46 802.11n(H Frequency MHz 2366.26 2516.41 6210.26 7158.70 802.11n(H Frequency MHz 1337.94	Readir dBuV, 39.41 39.30 33.92 33.20 T20) Readir dBuV, 42.48 45.18 34.07 32.37 T20)	ng Antenna /m dB 26.23 28.42 32.17 37.11 Test channel ng Antenna /m dB 27.77 27.40 32.82 36.33 Test channel ng Antenna /m dB 26.23	Cable dB 4.09 10.91 Cable dB 5.59 9.74 10.02 Cable dB 4.09	Preamp dB 36.26 37.38 33.43 32.84 CH11 Preamp dB 37.26 37.29 34.13 33.19 CH11	Leve dBuV/ 33.47 36.38 42.25 48.38 Leve dBuV/ 38.49 40.98 42.50 45.53 Leve dBuV/ 33.47	Polarity 21	Over lim: -40.9 -3125. Over lim: -35333128. Over lim: -40.9 -37.6 -31.4	Vertical Remark Remark Peak Peak Peak Peak Horizontal Remark Peak Peak Vertical Remark	

Report No.: CHTEW21110195 Page: 32 of 33 Issued: 2021-11-23

6. TEST SETUP PHOTOS

Radiated Emission







Report No.: CHTEW21110195 Page: 33 of 33 Issued: 2021-11-23

AC Conducted Emission



7. EXTERANAL AND INTERNAL PHOTOS

Reference to the test report No.: CHTEW21110191.

8. APPENDIX REPORT