TEST REPORT

Report No.: CHTEW21040140

Report Verification:

Project No...... SHT2103073005EW

FCC ID.....: 2ASWWCORNC60

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...... C60

Listed Model(s) C60 Pro, C60 Plus, C60 Max, C60 Lite

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

Date of receipt of test sample............ Apr. 02, 2021

Date of testing...... Apr. 02, 2021- Apr. 25, 2021

Date of issue...... Apr. 26, 2021

Result...... PASS

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The test report merely correspond to the test sample.

Report No.: CHTEW21040140 Page: 2 of 33 Issued: 2021-04-26

Contents

<u>1.</u>	TEST STANDARDS AND REPORT VERSION	3
		_
1.1.	Test Standards	3
1.2.	Report version	3
<u>2.</u>	TEST DESCRIPTION	4
<u>3.</u>	SUMMARY	5
3.1.	Client Information	5
3.2.	Product Description	5
3.3.	Radio Specification Description	5
3.4.	Testing Laboratory Information	6
	TEST CONFIGURATION	-
<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
5.3.	Peak Output Power	15
5.4.	Power Spectral Density	16
5.5.	6dB bandwidth	17
5.6.	99% Occupied Bandwidth	18
5.7.	Duty Cycle	19
5.8.	Conducted Band edge and Spurious Emission	20
5.9.	Radiated Band edge Emission	22
5.10.	Radiated Spurious Emission	26
<u>6.</u>	TEST SETUP PHOTOS	32
<u>7.</u>	EXTERANAL AND INTERNAL PHOTOS	33
<u> </u>		
<u>8.</u>	APPENDIX REPORT	33

Report No.: CHTEW21040140 Page: 3 of 33 Issued: 2021-04-26

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	2021-04-26	Original

Report No.: CHTEW21040140 Page: 4 of 33 Issued: 2021-04-26

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.: CHTEW21040140 Page: 5 of 33 Issued: 2021-04-26

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: Shenzhen Chiteng Technology Co.,LTD	
Address:	Second Floor,Area A, Building 4, Huiye Technology Workshop, Guanguang Road, Tangjia Community, Gongming Street, Guangming New District, Shenzhen, Guangdong

3.2. Product Description

Name of EUT:	Smart Phone
Trade Mark:	CORN
Model No.:	C60
Listed Model(s):	C60 Pro,C60 Plus, C60 Max, C60 Lite
Power supply:	DC 3.8V
Battery Information:	DC 3.8V, 3000mAh
Adapter Information:	Model:CS001 Input: AC100-240V, 50/60Hz, 0.15A Output: 5.0Vdc, 1.0A
Hardware version:	J527B-31EMB-D3-EF-V1.2
Software version:	11.0

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.: CHTEW21040140 Page: 6 of 33 Issued: 2021-04-26

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.: CHTEW21040140 Page: 7 of 33 Issued: 2021-04-26

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.: CHTEW21040140 Page: 8 of 33 Issued: 2021-04-26

4.4. Support unit used in test configuration and system

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

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

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

4.5. Testing environmental condition

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

4.6. Measurement uncertainty

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

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

Report No.: CHTEW21040140 Page: 9 of 33 Issued: 2021-04-26

4.7. Equipment Used during the Test

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

•	Radiated emission-6th test site													
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)							
•	Semi-Anechoic Chamber	Albatross projects	HTWE0127	SAC-3m-02	C11121	2018/09/30	2021/09/29							
•	EMI Test Receiver	R&S	HTWE0099	ESCI	100900	2020/10/19	2021/10/18							
•	Loop Antenna	R&S	HTWE0170	HFH2-Z2	100020	2021/04/01	2024/03/31							
•	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0123	VULB9163	538	2021/04/01	2024/03/31							
•	Pre-Amplifer	SCHWARZBECK	HTWE0295	BBV 9742	N/A	2020/11/13	2021/11/12							
•	RF Connection Cable	HUBER+SUHNER	HTWE0062-01	N/A	N/A	2020/05/27	2021/05/26							
•	RF Connection Cable	HUBER+SUHNER	HTWE0062-02	SUCOFLEX104	501184/4	2020/05/27	2021/05/26							
•	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A							

•	Radiated em	ission-7th test s	ite				
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Semi-Anechoic Chamber	Albatross projects	HTWE0122	SAC-3m-01	N/A	2018/09/27	2021/09/26
•	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2020/10/20	2021/10/19
•	Horn Antenna	SCHWARZBECK	HTWE0126	9120D	1011	2020/04/01	2023/03/31
•	Broadband Horn Antenna	SCHWARZBECK	HTWE0103	BBHA9170	BBHA9170472	2018/10/11	2021/10/11
•	Pre-amplifier	CD	HTWE0071	PAP-0102	12004	2020/11/13	2021/11/12
•	Broadband Pre- amplifier	SCHWARZBECK	HTWE0201	BBV 9718	9718-248	2020/05/23	2021/05/22
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-01	6m 18GHz S Serisa	N/A	2020/05/10	2021/05/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-02	6m 3GHz RG Serisa	N/A	2020/05/10	202105/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-03	6m 3GHz RG Serisa	N/A	2020/05/10	2021/05/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-04	6m 3GHz RG Serisa	N/A	2020/05/10	2021/05/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0121-01	6m 18GHz S Serisa	N/A	2020/05/10	2021/05/09
•	Test Software	Audix	N/A	E3	N/A	N/A	N/A

Report No.: CHTEW21040140 Page: 10 of 33 Issued: 2021-04-26

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

Report No.: CHTEW21040140 Page: 11 of 33 Issued: 2021-04-26

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

⊠ Passed	☐ Not Applicable
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The antenna type is an internal antenna, the directional gain of the antenna less than 6 dBi, please refer to the below antenna photo.



Report No.: CHTEW21040140 Page: 12 of 33 Issued: 2021-04-26

5.2. AC Conducted Emission

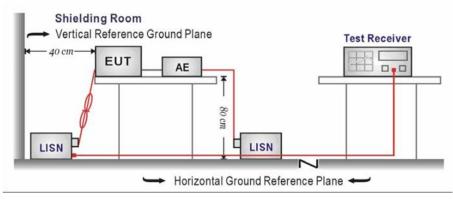
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207

Fraguenov rango (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

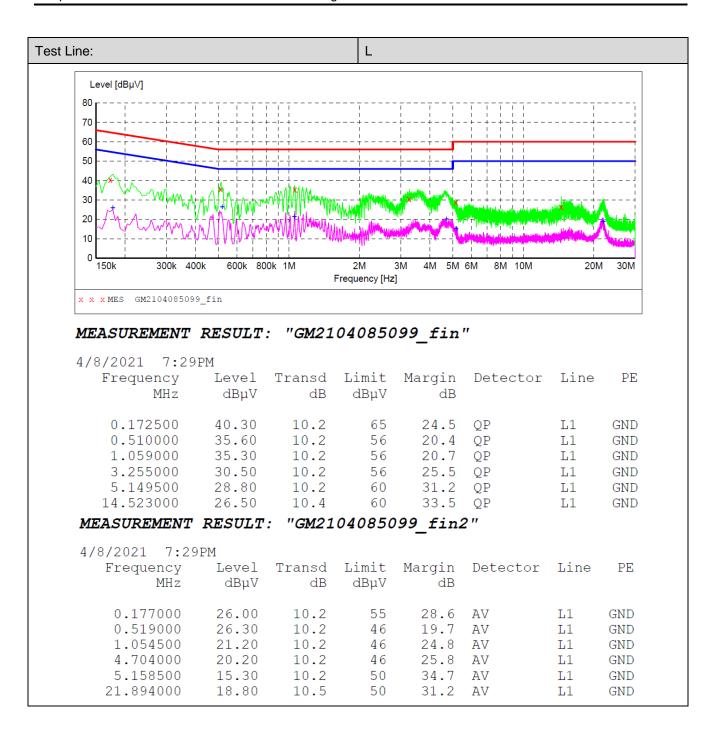
- 1. The EUT was setup according to ANSI C63.10 requirements.
- The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any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

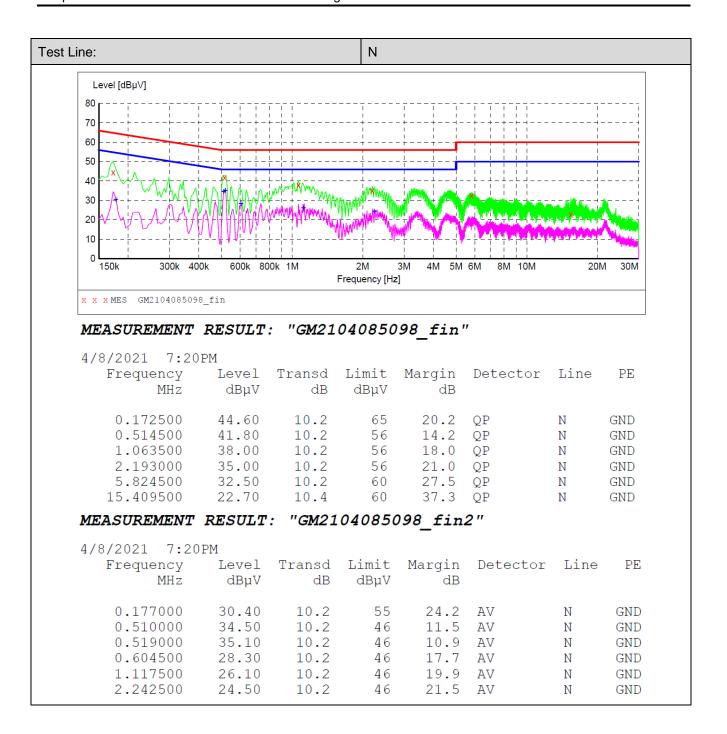
Please refer to the clause 4.2

TEST RESULT

 Report No.: CHTEW21040140 Page: 13 of 33 Issued: 2021-04-26



Report No.: CHTEW21040140 Page: 14 of 33 Issued: 2021-04-26



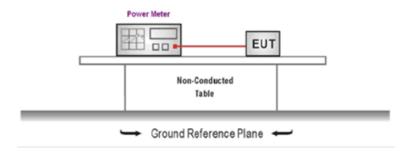
Report No.: CHTEW21040140 Page: 15 of 33 Issued: 2021-04-26

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.: CHTEW21040140 Page: 16 of 33 Issued: 2021-04-26

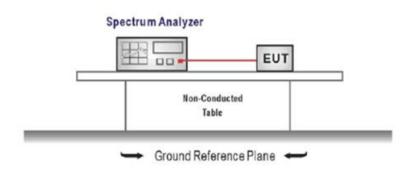
5.4. Power Spectral Density

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.: CHTEW21040140 Page: 17 of 33 Issued: 2021-04-26

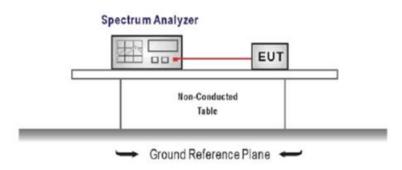
5.5. 6dB bandwidth

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

- 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

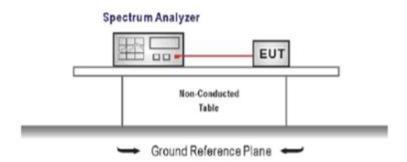
Report No.: CHTEW21040140 Page: 18 of 33 Issued: 2021-04-26

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

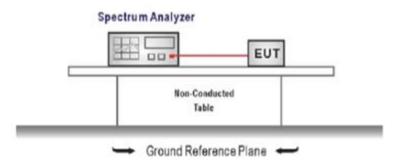
Report No.: CHTEW21040140 Page: 19 of 33 Issued: 2021-04-26

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

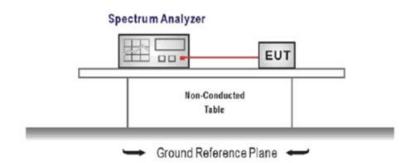
Report No.: CHTEW21040140 Page: 20 of 33 Issued: 2021-04-26

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.
- 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.: CHTEW21040140 Page: 21 of 33 Issued: 2021-04-26

TEST	RESULT
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 $oxed{oxed}$ Passed $oxed{oxed}$ Not Applicable

TEST Data

Please refer to appendix F on the appendix report

Report No.: CHTEW21040140 Page: 22 of 33 Issued: 2021-04-26

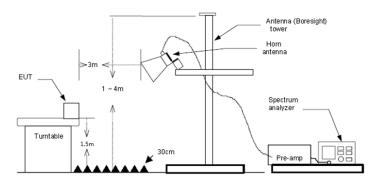
5.9. Radiated Band edge Emission

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.: CHTEW21040140 Page: 23 of 33 Issued: 2021-04-26

Туре		802.11	b	Test ch	annel	CH	101	P	olarity		Horizontal	
,	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	p Aux dB	Level dBuV/m	Limit dBuV/r			
	1 2	2310.00 2390.01	31.67 30.23	27.96 27.72	7.30 7.72	37.56 37.45	20.00 20.00	49.37 48.22	74.00 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	2310.00 2390.01	23.22 22.11	27.96 27.72		37.56 37.45	20.00 20.00			-13.08 -13.90	Average Average	
Туре		802.11	b	Test ch	annel	CH	101	P	olarity		Vertical	
	Mark	r Frequency	Reading dBuV/m	Antenna dB	Cable dB	Pream	p Aux dB	Level dBuV/m	Limit dBuV/n	Over 1 limi		•
	1 2	2310.00 2390.01	30.17 30.40	27.96 27.72	7.30 7.72	37.56 37.45	20.00	47.87 48.39	74.00 74.00	-26.13 -25.61	B Peak	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
	1 2	2310.00 2390.01	24.05 23.11	27.96 27.72		37.56 37.45	20.00 20.00			-12.25 -12.90	Average Average	

Туре		802.11	lb	Test cl	nannel	CH	111	Р	olarity	Horizontal
••	Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit Over	Remark
		MHz		dB	dB	dB	dB	dBuV/m	dBuV/m limit	
	1	2483.49			7.80		20.00		54.00 -12.80	
	2	2500.00	23.08	27.40	7.81	37.26	20.00	41.03	54.00 -12.97	Average
-	Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit Ove	r Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m lim:	it
	1	2483.49	29.13	27.43	7.80	37.26	20.00	47.10	74.00 -26.90	a Peak
	2	2500.00	29.01	27.40	7.81	37.26	20.00	46.96	74.00 -27.0	4 Peak
Туре		802.11	lb	Test cl	nannel	CH	111	Р	olarity	Vertical
-	Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit Over	Remark
		MHz	_	dB	dB		dB	dBuV/m	dBuV/m limit	
	1	2483.49	24.00	27.43	7.80	37.26	20.00	-	54.00 -12.03	Average
	2	2500.00	22.54	27.40	7.81	37.26	20.00	40.49	54.00 -13.51	
-	Mark	Frequency	_	Antenna				Level	Limit Over	
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m limi	LT
					7 00	27.00	20.00	40.05	74 00 05 70	BI-
	_	2483.49	30.28		7.80 7.81	37.26 37.26	20.00		74.00 -25.75 74.00 -25.87	

Report No.: CHTEW21040140 Page: 24 of 33 Issued: 2021-04-26

Туре		802.11	1g	Test cl	hannel	CH	101		Polarity	Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable F	Preamp dB	Aux dB	Level dBuV/m	Limit Over	Remark
	1 2	2310.00 2390.01	24.76	27.96 27.72		7.56	20.00	42.4	6 54.00 -11.54 3 54.00 -10.47	Average
,	Mark	Frequency	_					Level		
	1 2	MHz 2310.00 2390.01	dBuV/m 30.05 35.30	dB 27.96 27.72		dB 37.56 37.45	dB 20.00 20.00	dBuV/i 47.75 53.29	•	25 Peak
Туре		802.11	1g	Test c	hannel	CH	101		Polarity	Vertical
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable I	Preamp	Aux dB	Level dBuV/m		
	1 2	2310.00 2390.01	-	27.96 27.72	7.30 3	7.56 7.45	20.00	41.4	48 54.00 -12.52 91 54.00 -7.09	Average
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/		
	1 2	2310.00 2390.01	30.51 33.49	27.96 27.72	7.30	37.56 37.45	20.00	48.21 51.48	74.00 -25.7	9 Peak

Туре		802.1	1g	Test c	hannel	CI	H11	F	Polarity	Horizontal
	Mark	Frequency	_	Antenna				Level		
	1	MHz 2483.49	dBuV/m 34.90	dB	dB	dB 27.26	dB 20.00		dBuV/m lim: 74.00 -21.1	
	2		29.81				20.00			4 Peak
	Mark	Frequency MHz	_		Cable dB		Aux dB		Limit Over dBuV/m limit	Remark
	1	2483.49	25.57	27.43	7.80	37.26	20.00	43.54	54.00 -10.46	Average
	2	2500.00	22.55	27.40	7.81	37.26	20.00	40.50	54.00 -13.50	Average
Туре		802.1	1g	Test c	hannel	CI	H11	F	Polarity	Vertical
	Mark	Frequency MHz	_	Antenna dB			ıp Aux dB		Limit Ove dBuV/m lim	
	1		36.21				20.00		74.00 -19.8	
	2		30.17						74.00 -25.8	
	Mark	Frequency MHz	Reading dBuV/m				Aux dB		Limit Over dBuV/m limit	Remark
	1 2	2483.49 2500.00	26.53		7.80	37.26 37.26	20.00	44.50		

Report No.: CHTEW21040140 Page: 25 of 33 Issued: 2021-04-26

Туре		802.11r	(HT20)	Test	channel	CH01	F	olarity	Horizontal
	Mark	Frequency	Reading dBuV/m	Antenna dB		eamp Aux B dB	Level dBuV/m	Limit Ove	
	1 2	2310.00 2390.01	29.82 30.87	27.96 27.72	7.30 37. 7.72 37.			74.00 -26.4 74.00 -25.1	
	Mark	MHz	Reading dBuV/m	Antenna dB	Cable Pre	. dB	Level dBuV/m	Limit Over dBuV/m limit	
	2	2310.00 2390.01	22.59 25.88	27.96 27.72	7.30 37.5 7.72 37.4			54.00 -13.71 54.00 -10.13	Average Average
Туре		802.11r	(HT20)	Test	channel	CH01	F	olarity	Vertical
,	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable Pr		Level dBuV/m	Limit Ove	
	1 2	2310.00 2390.01	29.37 34.14	27.96 27.72	7.30 37. 7.72 37.		47.07 52.13	74.00 -26.9 74.00 -21.8	
	Mark	MHz	dBuV/m	Antenna dB	Cable Prea dB dB	. dB	Level dBuV/m	Limit Over dBuV/m limit	Remark
	1 2	2310.00 2390.01		27.96 27.72	7.30 37.56 7.72 37.45			54.00 -13.07 54.00 -12.45	Average Average

Туре		802.11	n(HT20)	Test c	Test channel			F	Polarity	Horizontal
	Mark	Frequency MHz	_	Antenna dB	Cable F	Preamp dB		Level dBuV/m	Limit Over dBuV/m limit	Remark
	1 2	2483.49	27.68	27.43	7.80 37	7.26	20.00	45.65	54.00 -8.35	Average
	2 2	2500.00	21.93	27.40	7.81 37	7.26	20.00	39.88	54.00 -14.12	Average
-	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB		Level dBuV/m	Limit Over	
	1	2483.49	37.59	27.43	7.80	37.26	20.00	55.56	74.00 -18.44	Peak
	2	2500.00	29.14	27.40	7.81	37.26	20.00	47.09	74.00 -26.91	Peak
Туре		802.11	n(HT20)	Test c	est channel CH11			P	Polarity	Vertical
-	Mark	Frequency Reading MHz dBuV/m			Cable I		Aux dB	Level dBuV/m	Limit Over dBuV/m limit	Remark
	1 2						20.00		54.00 -3.46	
			22.29 27.40		7.81 37.26				54.00 -13.76	Average
-	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	p Aux dB	Level dBuV/m	Limit Ove dBuV/m lim	
-			_	dB	dB		dB		dBuV/m lim	it

Report No.: CHTEW21040140 Page: 26 of 33 Issued: 2021-04-26

5.10. Radiated Spurious Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

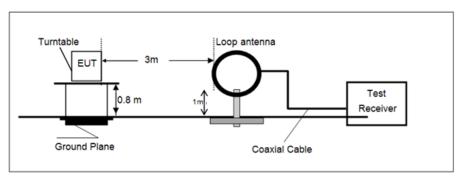
Frequency	Limit (dBuV/m)	Value
0.009 MHz ~0.49 MHz	2400/F(kHz) @300m	Quasi-peak
0.49 MHz ~ 1.705 MHz	24000/F(kHz) @30m	Quasi-peak
1.705 MHz ~30 MHz	30 @30m	Quasi-peak

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.

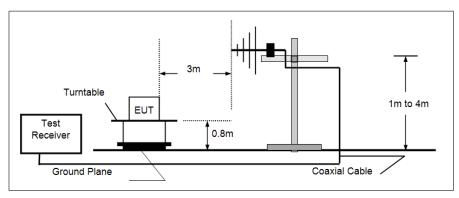
Frequency	Limit (dBuV/m @3m)	Value		
30MHz~88MHz	40.00	Quasi-peak		
88MHz~216MHz	43.50	Quasi-peak		
216MHz~960MHz	46.00	Quasi-peak Quasi-peak		
960MHz~1GHz	54.00			
Above 1GHz	54.00	Average		
Above IGHZ	74.00	Peak		

TEST CONFIGURATION

→ 9 kHz ~ 30 MHz

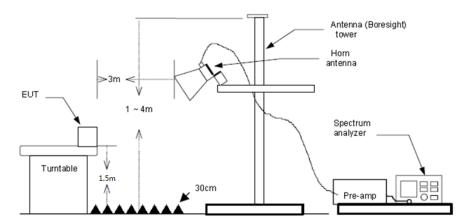


> 30 MHz ~ 1 GHz



Above 1 GHz

Report No.: CHTEW21040140 Page: 27 of 33 Issued: 2021-04-26



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.

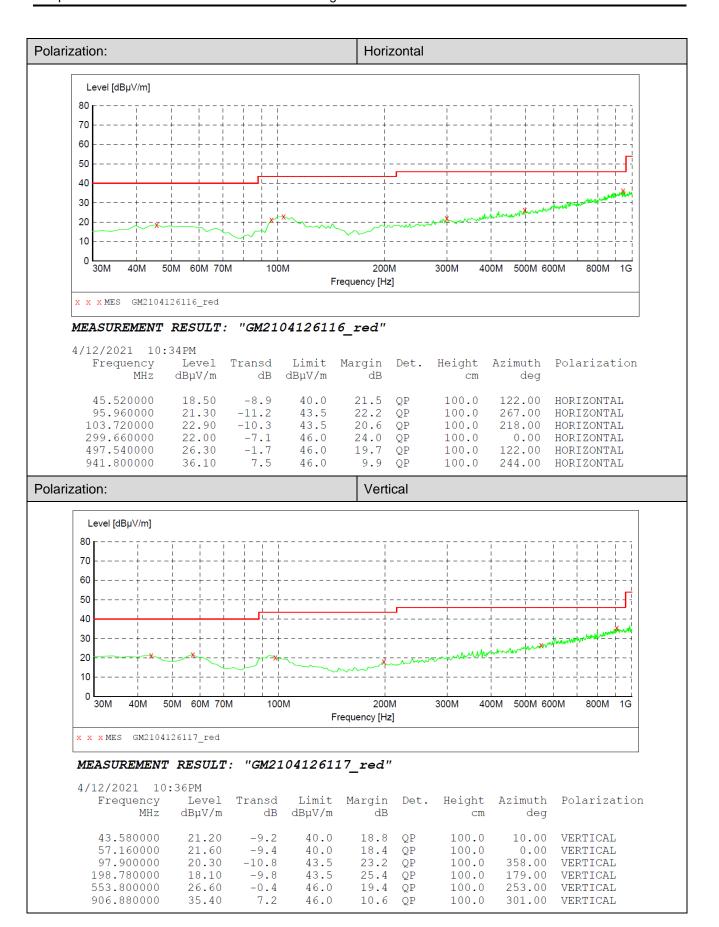
TEST DATA FOR 9 kHz ~ 30 MHz

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.: CHTEW21040140 Page: 28 of 33 Issued: 2021-04-26



Report No.: CHTEW21040140 Page: 29 of 33 Issued: 2021-04-26

TEST DATA FOR 1 GHz ~ 25 GHz

Туре			802.11	lb	Test	channel		CH	01		Polarity		Horizontal	
				n 48						1			Dama ale	
	Mark Freque MHz 1 1260.67 2 3681.47			Reading dBuV/m	Antenna dB	a Cable dB		eamp B	Aux dB	Level dBuV/				
				36.20	25.92			46	0.00	30.95	74.00			
							37.		0.00	36.93	74.00			
	3 4821.76 4 7245.81			35.42 35.08	31.40 36.41	31.40 11.52 36.41 13.69		24 06	0.00	43.10 51.12	74.00 74.00			
	-	7243	.01	33.00	30.41	13.09	34.	00	0.00	31.12	74.00	-22.00	reak	
Туре	802.			lb	Test	channel		CH	01		Polarity		Vertical	
	Mark	Fre	equency	Reading	Antenn	a Cable	Pr	eamp	Aux	Leve]	Limit	t Over	Remark	
			4Hz	dBuV/m	dB	dB		lB	dB	dBuV/				
	1		0.67	35.63	25.92	5.29	36.		0.00		74.00			
	2		5.59	35.18	29.17	9.60	36.		0.00		74.00			
	3 4		L.76 L.19	37.58 30.78	31.40 36.88	11.52 14.47	35. 33.		0.00		74.00 74.00			
_		754.								40.01		23.13		
Туре			802.11	lb 	Test	channel		CH	06		Polarity		Horizontal	
	Mark	Fre	quency	Reading	Antenna	Cable	Pre	amp	Aux	Level	Limit	Over	Remark	
			Hz	dBuV/m	dB	dB	dB		dB	dBuV/m	dBuV/m	limit		
	1	1270		35.23	25.94		5.32 36.4		0.00	30.07		-43.93	Peak	
	2	3588 4871		33.58 34.90	29.38 31.40	10.03 11.51	36.9 35.1		0.00	36.09 42.65		-37.91 -31.35	Peak Peak	
	4	7319		38.94	36.44	13.77	34.1			55.05	74.00	-18.95	Peak	
	5	7319	.97	35.63	36.44	13.77	13.77 34.1		0.00 51.		74 54.00 -2.26		Average	
Туре			802.11	lb	Test	channel		CH06			Polarity		Vertical	
	Mark		quency	Reading dBuV/m	Antenn dB	a Cable dB		reamp B	Aux dB	Leve. dBuV				
	1	1216		37.91	25.70	5.15	36.		0.00		74.0			
	2	3570.71		33.51	29.34	9.93	36.	85	0.00					
	3	4871		36.15	31.40	11.51	35.		0.00		74.00 -30.1			
	4	7319		32.98	36.44 13.77 3		34.							
Туре			802.11	lb	Test	channel		CH11			Polarity		Horizontal	
	Mark	Fre	quency	Reading	Antenna			amp	Aux	Level	Limit	Over	Remark	
			Hz	dBuV/m	dB	dB	dB		dB	dBuV/m				
	1 2	1260			25.92 28.96	5.29 8.70	36.4		0.00	30.50 36.58	74.00 74.00	-43.50 -37.42	Peak Peak	
	3	3168 4920			31.44	11.51				41.35		-37.42	Peak Peak	
	4	7394			36.59	14.34				55.32		-18.68	Peak	
	5	7394	.88	34.34	36.59	14.34	34.0	2	0.00	51.	25 54.00	-2.75	Average	
Туре			802.11	lb	Test	channel		CH	11		Polarity		Vertical	
	Marel			Dondin-	Λ <u>n</u> +===				۸۰۰۰۰		1 4 2 2	· · · · · · · · · · · · · · · · · · ·	Domanie	
	riank		equency MHz	Reading dBuV/m	Antenn dB	a Cabi	e Pr c			Leve] dBuV/		t Over /m limi		
	1		3.17	35.69	25.99	5.40				30.76		0 -43.24		
	2		3.90	33.36	29.80	9.92			0.00			37.73		
	3		0.96	33.88	31.44	11.51				41.62 51.43		32.38		
	4		94.88 34.52			36.59 14.34 34					74.00 -22.57		Peak	

Report No.: CHTEW21040140 Page: 30 of 33 Issued: 2021-04-26

Туре			802.11	g	Test c	hannel	С	H01		Polarity		Horizontal	
	Mark		quency Hz	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	ıp Aux dB	Level		Over		
	1	1216		35.58	25.70	5.15	36.62	0.00	dBuV/ 29.81	m abuv/m 74.00	-44.19		
	2	3854		33.09	29.80	9.91	36.85	0.00	35.95	74.00	-38.05		
	3	4821		33.25	31.40	11.52	35.24	0.00	40.93	74.00	-33.07		
	4	7245		34.70	36.41	13.69	34.06	0.00	50.74	74.00	-23.26		
Туре			802.11	g	Test c	hannel	С	H01		Polarity		Vertical	
	Mark		quency Hz	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	p Aux dB	Level dBuV/		Over limit	Remark	
	1	1263		34.71	25.93	5.30	36.44	0.00	29.50	74.00		Peak	
	2	3766		33.00	29.53	9.82	37.12	0.00	35.23	74.00		Peak	
	3	5588	.88	31.30	31.88	12.39	35.18	0.00	40.39	74.00	-33.61	Peak	
	4	9228	.06	32.07	38.91	15.12	36.04	0.00	50.06	74.00	-23.94	Peak	
Туре			802.11	g	Test c	hannel	С	H06		Polarity		Horizontal	
	Mark			Reading					Leve]		0ver		
			Hz	dBuV/m	dB	dB	dB	dB	dBuV/				
	1			35.31	25.40	5.02	36.81	0.00	28.92	74.00	-45.08		
	2	4223		30.76	30.15	10.35	36.07	0.00	35.19	74.00	-38.81		
	3 5047			30.65	32.19	11.50	35.37		38.97	74.00	-35.03		
	4	4 7319.96 33.02		36.44 13.77 34.			.10 0.00 49.13		74.00	-24.87	' Peak		
	802.11g												
Type			802.11	g	Test c	hannel	С	H06		Polarity		Vertical	
Туре	Mark		quency	Reading	Antenna	Cable	Pream	p Aux	Level	Limit	Over	Remark	
Type		N	quency	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	p Aux dB	dBuV/	Limit m dBuV/m	limit	Remark t	
Type	1	1138	quency Hz	Reading dBuV/m 35.66	Antenna dB 25.40	Cable dB 5.02	Pream dB 36.81	p Aux dB 0.00	dBuV/ 29.27	Limit m dBuV/m 74.00	limit -44.73	Remark t Peak	
Туре	1 2	1138 4055	quency IHz 1.63	Reading dBuV/m 35.66 31.58	Antenna dB 25.40 30.00	Cable dB 5.02 10.20	Pream dB 36.81 36.32	p Aux dB 0.00 0.00	dBuV/ 29.27 35.46	Limit m dBuV/m 74.00 74.00	limit -44.73 -38.54	Remark t Peak Peak	
Type	1	1138 4055 4883	quency Hz 1.63 1.37	Reading dBuV/m 35.66 31.58 31.69	Antenna dB 25.40 30.00 31.40	Cable dB 5.02 10.20 11.50	Pream dB 36.81 36.32 35.18	P Aux dB 0.00 0.00	dBuV/ 29.27 35.46 39.41	Limit m dBuV/m 74.00 74.00 74.00	limit -44.73 -38.54 -34.59	Remark t Peak Peak Peak	
	1 2 3	1138 4055	quency lHz 3.63 3.37 3.52	Reading dBuV/m 35.66 31.58 31.69 31.85	Antenna dB 25.40 30.00 31.40 38.45	Cable dB 5.02 10.20 11.50 15.22	Pream dB 36.81 36.32 35.18 36.07	P Aux dB 0.00 0.00 0.00 0.00	dBuV/ 29.27 35.46 39.41	Limit m dBuV/m 74.00 74.00 74.00 74.00	limit -44.73 -38.54	Remark t Peak Peak Peak Peak	
Type	1 2 3	1138 4055 4883	quency Hz 1.63 1.37	Reading dBuV/m 35.66 31.58 31.69 31.85	Antenna dB 25.40 30.00 31.40 38.45	Cable dB 5.02 10.20 11.50	Pream dB 36.81 36.32 35.18 36.07	P Aux dB 0.00 0.00	dBuV/ 29.27 35.46 39.41	Limit m dBuV/m 74.00 74.00 74.00	limit -44.73 -38.54 -34.59	Remark t Peak Peak Peak	
	1 2 3 4	1138 4055 4883 9111 Free	quency Hz 63 37 52 35 802.11	Reading dBuV/m 35.66 31.58 31.69 31.85 g	Antenna dB 25.40 30.00 31.40 38.45 Test C	Cable dB 5.02 10.20 11.50 15.22 hannel	Pream dB 36.81 36.32 35.18 36.07 C	P Aux dB 0.00 0.00 0.00 0.00	dBuV/ 29.27 35.46 39.41 49.45	Limit m dBuV/m 74.00 74.00 74.00 74.00 Polarity	limit -44.73 -38.54 -34.59 -24.55	Remark t Peak Peak Peak Peak Peak Porizontal	
	1 2 3 4 Mark	1138 4055 4883 9111 Free Mi	quency Hz 63 37 52 35 802.11	Reading dBuV/m 35.66 31.58 31.69 31.85 g	Antenna dB 25.40 30.00 31.40 38.45 Test C	Cable dB 5.02 10.20 11.50 15.22 hannel Cable dB	Pream dB 36.81 36.32 35.18 36.07 C	P Aux dB 0.00 0.00 0.00 0.00 H11	dBuV/ 29.27 35.46 39.41 49.45 Level	Limit m dBuV/m 74.00 74.00 74.00 74.00 74.00 Polarity Limit m dBuV/m	limit -44.73 -38.54 -34.59 -24.55 Over limit	Remark t Peak Peak Peak Peak Peak Porizontal	
	1 2 3 4 Mark	Free Mi	equency HHz 1.63 1.37 1.52 1.35 802.11	Reading dBuV/m 35.66 31.58 31.69 31.85 g Reading dBuV/m 35.59	Antenna dB 25.40 30.00 31.40 38.45 Test C	Cable dB 5.02 10.20 11.50 15.22 hannel Cable dB 5.09	Pream dB 36.81 36.32 35.18 36.07 C	P Aux dB 0.00 0.00 0.00 0.00 H11	dBuV/ 29.27 35.46 39.41 49.45 Level dBuV/ 29.62	Limit m dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit m dBuV/m 74.00	limit -44.73 -38.54 -34.59 -24.55 Over limit -44.38	Remark t Peak Peak Peak Peak Peak Horizontal Remark	
	1 2 3 4 Mark	Free MH 1198 3719	quency :1,63 :.37 :.52 35 802.11	Reading dBuV/m 35.66 31.58 31.69 31.85 g Reading dBuV/m 35.59 33.01	Antenna dB 25.40 30.00 31.40 38.45 Test C	Cable dB 5.02 10.20 11.50 15.22 hannel Cable dB 5.09 9.80	Pream dB 36.81 36.32 35.18 36.07 C Pream dB 36.65 37.10	P Aux dB 0.00 0.00 0.00 0.00 H11 D Aux dB 0.00 0.00	dBuV/ 29.27 35.46 39.41 49.45 Level dBuV/ 29.62 35.15	Limit m dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit m dBuV/m 74.00 74.00	limit -44.73 -38.54 -34.59 -24.55 Over limit -44.38 -38.85	Remark t Peak Peak Peak Peak Horizontal Remark : Peak Peak	
	1 2 3 4 Mark	Free Mr 1198 4055 4883 9111 Free Mr 1198 3719 4772	802.11 802.11 91.00 802.11	Reading dBuV/m 35.66 31.58 31.69 31.85 g Reading dBuV/m 35.59 33.01 31.86	Antenna dB 25.40 30.00 31.40 38.45 Test C Antenna dB 25.59 29.44 31.40	Cable dB 5.02 10.20 11.50 15.22 hannel Cable dB 5.09 9.80 11.41	Pream dB 36.81 36.32 35.18 36.07 C Pream dB 36.65 37.10 35.41	P Aux dB 0.00 0.00 0.00 0.00 H11 D Aux dB 0.00 0.00	dBuV/ 29.27 35.46 39.41 49.45 Level dBuV/ 29.62 35.15 39.26	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	limit -44.73 -38.54 -34.59 -24.55 Over limit -44.38 -38.85 -34.74	Remark t Peak Peak Peak Peak Horizontal Remark : Peak Peak	
	1 2 3 4 Mark	Free MH 1198 3719	802.11 802.11 91.00 802.11	Reading dBuV/m 35.66 31.58 31.69 31.85 g Reading dBuV/m 35.59 33.01 31.86	Antenna dB 25.40 30.00 31.40 38.45 Test C Antenna dB 25.59 29.44 31.40	Cable dB 5.02 10.20 11.50 15.22 hannel Cable dB 5.09 9.80	Pream dB 36.81 36.32 35.18 36.07 C Pream dB 36.65 37.10 35.41	P Aux dB 0.00 0.00 0.00 0.00 H11 D Aux dB 0.00 0.00	dBuV/ 29.27 35.46 39.41 49.45 Level dBuV/ 29.62 35.15	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	limit -44.73 -38.54 -34.59 -24.55 Over limit -44.38 -38.85 -34.74	Remark t Peak Peak Peak Peak Horizontal Remark : Peak Peak	
	1 2 3 4 Mark	Free Mr 1198 4055 4883 9111 Free Mr 1198 3719 4772	802.11 802.11 91.00 802.11	Reading dBuV/m 35.66 31.58 31.69 31.85 9 Reading dBuV/m 35.59 33.01 31.86 34.19	Antenna dB 25.40 30.00 31.40 38.45 Test C Antenna dB 25.59 29.44 31.40 36.59	Cable dB 5.02 10.20 11.50 15.22 hannel Cable dB 5.09 9.80 11.41	Pream dB 36.81 36.32 35.18 36.07 C	P Aux dB 0.00 0.00 0.00 0.00 H11 D Aux dB 0.00 0.00	dBuV/ 29.27 35.46 39.41 49.45 Level dBuV/ 29.62 35.15 39.26	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	limit -44.73 -38.54 -34.59 -24.55 Over limit -44.38 -38.85 -34.74	Remark t Peak Peak Peak Peak Horizontal Remark : Peak Peak Peak Peak	
Туре	1 2 3 4 Mark 1 2 3 4	Free Mi 1198 3719 4772 7394	quency 1.63 1.52 1.35 802.11 quency 1z 10 15 91 88	Reading dBuV/m 35.66 31.58 31.69 31.85 g Reading dBuV/m 35.59 33.01 31.86 34.19 g	Antenna dB 25.59 29.44 31.40 36.59 Test C	Cable	Pream dB 36.81 36.32 35.18 36.07 C Pream dB 36.65 37.10 35.41 34.02 C	H11 Aux dB 0.00 0.00 0.00 H11 0.00 0.00 0.00 H11	dBuV/ 29.27 35.46 39.41 49.45 Level dBuV/ 29.62 35.15 39.26 51.10	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 Polarity	limit -44.73 -38.54 -34.59 -24.55 Over limit -44.38 -38.85 -34.74 -22.90	Remark Peak Peak Peak Peak Horizontal Remark Peak Peak Peak Peak Peak Peak Vertical	
Туре	1 2 3 4 Mark 1 2 3 4	Free MH 1198 3719 4772 7394	quency 1Hz 1.63 1.37 1.52 1.35 802.11 10 15 19 19 18 802.11	Reading dBuV/m 35.66 31.58 31.69 31.85 g Reading dBuV/m 35.59 33.01 31.86 34.19 g	Antenna dB 25.40 38.45 Test c Antenna dB 25.59 29.44 31.40 36.59 Test c Antenna dB 25.60 Antenna dB 25.60 Antenna dB 25.60 Test c	Cable dB 5.02 10.20 11.50 15.22 hannel Cable dB 5.09 9.80 11.41 14.34 hannel	Pream dB 36.81 36.32 35.18 36.07 C Pream dB 36.65 37.10 35.41 34.02 C	P Aux dB 0.00 0.00 0.00 0.00 H11 0.00 0.00 0.00	dBuV/ 29.27 35.46 39.41 49.45 Level dBuV/ 29.62 35.15 39.26 51.10	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 Polarity Polarity	limit -44.73 -38.54 -34.59 -24.55 Over limit -44.38 -38.85 -34.74 -22.90	Remark Peak Peak Peak Peak Horizontal Remark Peak Peak Peak Peak Peak Peak Peak Pe	
Туре	1 2 3 4 Mark 1 2 3 4	Free Mi 1198 3719 4772 7394	quency i.63 i.37 i.52 i.35 802.11 quency iz i.10 i.15 i.91 i.88 802.11	Reading dBuV/m 35.66 31.58 31.69 31.85 g Reading dBuV/m 35.59 33.01 31.86 34.19 g	Antenna dB 25.59 29.44 31.40 36.59 Test C	Cable dB 5.02 10.20 11.50 15.22 hannel Cable dB 5.09 9.80 11.41 14.34 hannel Cable dB	Pream dB 36.81 36.32 35.18 36.07 C Pream dB 36.65 37.10 35.41 34.02 C	P Aux dB 0.00 0.00 0.00 0.00 H11 D Aux dB 0.00 0.00 0.00 0.00 H11	dBuV/ 29.27 35.46 39.41 49.45 Level dBuV/ 29.62 35.15 39.26 51.10 Level dBuV/	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 Polarity Limit dBuV/m 60 CONTROL CONT	limit -44.73 -38.54 -34.59 -24.55 Over limit -44.38 -38.85 -34.74 -22.90 Over limi	Remark t Peak Peak Peak Peak Peak Horizontal Remark : Peak Peak Peak Peak Peak Peak Peak Peak	
Туре	1 2 3 4 Mark 1 2 3 4 Mark 1	Free Mi 1198 3719 4772 7394	quency i.63 i.37 i.52 i.35 802.11 quency tz i.10 i.15 i.91 i.88 802.11	Reading dBuV/m 35.66 31.58 31.69 31.85 g Reading dBuV/m 35.59 33.01 31.86 34.19 g	Antenna dB 25.40 38.45 Test c Antenna dB 25.59 29.44 31.40 36.59 Test c Antenna dB 25.64	Cable dB 5.02 10.20 11.50 15.22 hannel Cable dB 5.09 9.80 11.41 14.34 hannel Cable dB 5.11	Pream dB 36.81 36.32 35.18 36.07 C Pream dB 36.65 37.10 35.41 34.02 C	P Aux dB 0.00 0.00 0.00 H11 Aux dB 0.00 0.00 0.00 H11 Aux dB 0.00 0.00 H11	dBuV/ 29.27 35.46 39.41 49.45 Level dBuV/ 29.62 35.15 39.26 51.10 Level dBuV/ 29.56	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 Polarity Limit dBuV/m 74.00 74.00 74.00 74.00	limit -44.73 -38.54 -34.59 -24.55 Over limit -44.38 -38.85 -34.74 -22.90 Over limi -44.44	Remark t Peak Peak Peak Peak Peak Horizontal Remark : Peak Peak Peak Peak Peak Peak Peak Peak	
Туре	1 2 3 4 Mark 1 2 3 4 Mark 1 2 2 4 Mark 1 2 4 Mar	Free MH 1198 3719 4772 7394	quency Hz 1.63 1.37 1.52 1.35 802.11 10 15 191 188 802.11 191 191 191 191 191 191 191 191 191	Reading dBuV/m 35.66 31.58 31.69 31.85 g Reading dBuV/m 35.59 33.01 31.86 34.19 g	Antenna dB 25.59 Test C Antenna dB 25.64 30.00	Cable dB 5.02 10.20 11.50 15.22 hannel Cable dB 5.09 9.80 11.41 14.34 hannel Cable dB 5.11 10.21	Pream dB 36.81 36.32 35.18 36.07 C Pream dB 36.65 37.10 35.41 34.02 C Prear dB 36.64 36.25	P Aux dB 0.00 0.00 0.00 H11 Aux dB 0.00 0.00 0.00 H11 Aux dB 0.00 0.00 0.00 H11	dBuV/ 29.27 35.46 39.41 49.45 Level dBuV/ 29.62 35.15 39.26 51.10 Level dBuV/ 29.56 36.36	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 Telmit m dBuV/m 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00	limit -44.73 -38.54 -34.59 -24.55 Over limit -44.38 -38.85 -34.74 -22.90 Over limi -44.44 -37.64	Remark t Peak Peak Peak Peak Peak Horizontal Remark : Peak Peak Peak Peak Peak Peak Peak Peak	
Туре	1 2 3 4 Mark 1 2 3 4 Mark 1	Free Mi 1198 3719 4772 7394	quency Hz 63 37 52 35 802.11 	Reading dBuV/m 35.66 31.58 31.69 31.85 g Reading dBuV/m 35.59 33.01 31.86 34.19 g	Antenna dB 25.40 38.45 Test c Antenna dB 25.59 29.44 31.40 36.59 Test c Antenna dB 25.64	Cable	Pream dB 36.81 36.32 35.18 36.07 C Pream dB 36.65 37.10 35.41 34.02 C	P Aux dB 0.00 0.00 0.00 H11 D Aux dB 0.00 0.00 0.00 H11	dBuV/ 29.27 35.46 39.41 49.45 Level dBuV/ 29.62 35.15 39.26 51.10 Level dBuV/ 29.56 36.36	Limit m dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit m dBuV/m 74.00 74.00 74.00 Telmit m dBuV/m 74.00 74.00 74.00 Telmit m dBuV/m 74.00 74.00 74.00 74.00 74.00 74.00	limit -44.73 -38.54 -34.59 -24.55 Over limit -44.38 -38.85 -34.74 -22.90 Over limi -44.44 -37.64 -33.42	Remark t Peak Peak Peak Peak Peak Horizontal Remark : Peak Peak Peak Peak Peak Peak Peak Peak	

Report No.: CHTEW21040140 Page: 31 of 33 Issued: 2021-04-26

Туре			802.11	1n(HT20)	Test c	hannel		CHO)1		Polarity		Horizontal	
,	Mark 1 2	M 1112 3953	.44	Reading dBuV/m 36.53 32.52	Antenna dB 25.40 29.90	dB 4.99 10.08	di 36.3	86 50	Aux dB 0.00 0.00	Level dBuV/ 30.06 36.00	m dBuV/n 74.00 74.00	-43.94 -38.00	t Peak Peak	
	3 4	5086 8042		30.62 30.42	32.20 37.19	11.45 14.28	35.4		0.00 0.00	38.81 48.58	74.00 74.00	-35.19 -25.42		
Туре				1n(HT20)	Test c	: channel		CH01			Polarity		Vertical	
	Mark 1	N	equency MHz L.08	Reading dBuV/m 35.52	Antenna dB 25.90	Cable dB 5.26	Pre dE 36.5	3	Aux dB 0.00	Level dBuV/r 30.18		Over limit	Remark Peak	
	2 3 4	4024	1.52 3.40	31.79 30.92 30.77	29.95 31.90 40.60	10.19 12.44	36.2 34.8 36.7	9 88	0.00 0.00 0.00	35.64 40.38 51.33	74.00 74.00	-38.36 -33.62 -22.67	Peak Peak Peak	
Туре			802.11	1n(HT20)	Test o	hannel		CHO	6		Polarity		Horizontal	
	Mark	- 1	MHz	Reading dBuV/m	Antenna dB	Cable dB		eamp	dB	Leve dBuV			it	
	1 2 3	365	1.53 3.46 1.17	36.45 33.14 33.20	25.40 29.40 31.75	5.02 9.93 11.50	36. 37. 35.	02	0.00 0.00 0.00	30.07 35.45 41.05	74.00	-43.93 -38.55 -32.95	5 Peak	
	4		9.96	32.30	36.44	13.77	34.		0.00		74.00			
Туре			802.11	1n(HT20)	Test o	hannel		CHO	16		Polarity		Vertical	
	Mark		equency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pr d	eamp B	Aux dB	Leve:		Over n limi		
	1 2 3	4310	0.71 0.85 2.24	32.80 31.78 30.67	26.26 30.34 31.92	5.49 10.74 12.35	36. 36. 34.	12	0.00 0.00 0.00	28.10 36.74 40.08	74.00 74.00 74.00	-45.90 -37.26 -33.92	Peak	
	4	7941	1.19	30.22	36.88	14.47	33.	32	0.00	48.25	74.00	-25.75	Peak	
Туре			802.11	1n(HT20)	Test channel			CH1	1		Polarity	Horizontal		
		Mi	Hz	Reading dBuV/m	dB	dB	dB	· ·	Aux dB	Level dBuV/	m dBuV/m			
		1299 4202 5617 7682	.50 .41	32.23 29.99	31.90	5.42 10.23 12.46 14.72		.4 14		28.80 36.43 39.31 48.92	74.00 74.00 74.00 74.00	-45.20 -37.57 -34.69 -25.08	Peak Peak Peak Peak	
Туре				1n(HT20)		hannel		CH1	1		Polarity		Vertical	
		1	ИHz	Reading dBuV/m	dB	dB	di	В	dB	Level	m dBuV/m	Over limi		
	1 2 3	387	3.44 3.75 8.58	34.57 31.52 30.66	25.68 29.80 31.48	5.14 9.93 12.05	36.	79	0.00 0.00 0.00	34.46	74.00	-45.24 -39.54 -35.22	Peak	

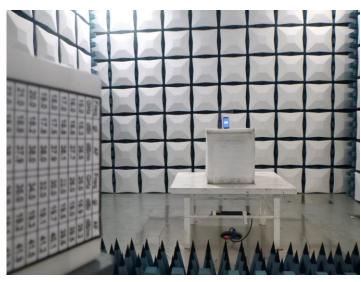
Report No.: CHTEW21040140 Page: 32 of 33 Issued: 2021-04-26

6. TEST SETUP PHOTOS

Radiated Emission







Report No.: CHTEW21040140 Page: 33 of 33 Issued: 2021-04-26

AC Conducted Emission



7. EXTERANAL AND INTERNAL PHOTOS

Reference to the test report No. : CHTEW21040136..

8. APPENDIX REPORT