#### Shenzhen Huatongwei International Inspection Co., Ltd.

1/F,Bldg 3,Hongfa Hi-tech Industrial Park,Genyu Road,Tianliao,Gongming,Shenzhen,China Phone:86-755-26748019 Fax:86-755-26748089 http://www.szhtw.com.cn



# TEST REPORT

Report No. ....:: CHTEW20070222

Report Verification:

SHT2007054805EW Project No.....

FCC ID.....:: 2AP4I-P4H

Applicant's name....:: **Summus Medical Laser LLC** 

1185 West Main Street Franklin, Tennessee 37064, USA Address....:

Manufacturer....: Summus Medical Laser LLC

1185 West Main Street Franklin, Tennessee 37064, USA Address....:

Test item description .....: **Platinum Laser System** 

Trade Mark .....: SUMMUS

P4H Model/Type reference.....:

Listed Model(s) .....:

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

Date of receipt of test sample.....: Jul. 21, 2020

Date of testing..... Jul. 22, 2020- Jul. 27, 2020

Date of issue.....: Jul. 28, 2020

Result....: **PASS** 

Compiled by

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

Supervised by (Position+Printed name+Signature):

Approved by

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

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

Project Engineer Chengxiao

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.

Page: 1 of 47

Report No.: CHTEW20070222 Page: 2 of 47 Issued: 2020-07-28

# **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
•	Tooming Laboratory information	•
<u>4.</u>	TEST CONFIGURATION	7
<del></del>	1201 COM 100M/MION	<u> </u>
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
5.2.	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	33
<u>7.</u>	EXTERANAL AND INTERNAL PHOTOS	34
		<u> </u>
8.	APPENDIX REPORT	47
<u>~ · </u>	APPENDIX REPORT	7/

Report No.: CHTEW20070222 Page: 3 of 47 Issued: 2020-07-28

# 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	2020-07-28	Original

Report No.: CHTEW20070222 Page: 4 of 47 Issued: 2020-07-28

# 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 <sup>*1</sup>
5.7	Duty cycle	-	PASS <sup>*1</sup>
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.

 <sup>\*1:</sup> No requirement on standard, only report these test data.

Report No.: CHTEW20070222 Page: 5 of 47 Issued: 2020-07-28

# 3. **SUMMARY**

### 3.1. Client Information

Applicant:	Summus Medical Laser LLC	
Address:	1185 West Main Street Franklin, Tennessee 37064, USA	
Manufacturer:	Summus Medical Laser LLC	
Address:	1185 West Main Street Franklin, Tennessee 37064, USA	

# 3.2. Product Description

Name of EUT:	Platinum Laser System	
Trade Mark:	SUMMUS' MEDICAL LASER	
Model No.:	P4H	
Listed Model(s):	-	
Power supply:	DC 10.8V for battery	
Hardware version:	V1.0	
Software version:	V1.0	

# 3.3. Radio Specification Description

Support type <sup>*2</sup> :	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:	Built-in antenna
Antenna gain:	4.5 dBi

Note:

<sup>\*2:</sup> only show the RF function associated with this report.

Report No.: CHTEW20070222 Page: 6 of 47 Issued: 2020-07-28

# 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		
	Туре	Accreditation Number	
	CNAS	L1225	
Qualifications	A2LA	3902.01	
	FCC	762235	
	Canada	5377A	

Report No.: CHTEW20070222 Page: 7 of 47 Issued: 2020-07-28

# 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.: CHTEW20070222 Page: 8 of 47 Issued: 2020-07-28

## 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?				
✓	Not Applicable				
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.: CHTEW20070222 Page: 9 of 47 Issued: 2020-07-28

# 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	2019/10/26	2020/10/25							
•	Artificial Mains	SCHWARZBECK	HTWE0113	NNLK 8121	573	2019/10/23	2020/10/22							
•	Pulse Limiter	R&S	HTWE0033	ESH3-Z2	100499	2019/10/23	2020/10/22							
•	RF Connection Cable	HUBER+SUHNER	HTWE0113-02	ENVIROFLE X_142	EF-NM- BNCM-2M	2019/10/23	2020/10/22							
•	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A							

•	Radiated emiss	sion-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	2019/10/26	2020/10/25
•	Loop Antenna	R&S	HTWE0170	HFH2-Z2	100020	2018/04/02	2021/04/01
•	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0119	VULB9163	546	2018/04/04	2021/04/03
•	Pre-Amplifer	SCHWARZBECK	HTWE0295	BBV 9742	N/A	2019/11/14	2020/11/13
•	RF Connection Cable	HUBER+SUHNER	HTWE0062- 01	N/A	N/A	2019/08/21	2020/08/20
•	RF Connection Cable	HUBER+SUHNER	HTWE0062- 02	SUCOFLEX 104	501184/4	2020/05/27	2021/05/26
•	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A

•	Radiated emis	sion-7th test site	1				
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	2019/10/26	2020/10/25
•	Horn Antenna	SCHWARZBECK	HTWE0126	9120D	1011	2020/04/01	2023/03/31
•	Horn Antenna	SCHWARZBECK	HTWE0103	BBHA9170	25841	2018/10/11	2021/10/10
•	Broadband Horn Antenna	SCHWARZBECK	HTWE0103	BBHA9170	BBHA9170472	2018/10/11	2021/10/11
•	Pre-amplifier	CD	HTWE0071	PAP-0102	12004	2019/11/14	2020/11/13
•	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	2020/05/18	2021/05/17
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-02	6m 3GHz RG Serisa	N/A	2020/05/18	2021/05/17
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-03	6m 3GHz RG Serisa	N/A	2020/05/18	2021/05/17
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-04	6m 3GHz RG Serisa	N/A	2020/05/18	2021/05/17
•	RF Connection Cable	HUBER+SUHNER	HTWE0121-01	6m 18GHz S Serisa	N/A	2020/05/23	2021/05/22
•	Test Software	Audix	N/A	E3	N/A	N/A	N/A

Report No.: CHTEW20070222 Page: 10 of 47 Issued: 2020-07-28

•	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	2019/10/26	2020/10/25
•	Spectrum Analyzer	Agilent	N9020A	MY50510187	2019/10/26	2020/10/25
•	Power Meter	Anritsu	ML249A	N/A	2019/10/26	2020/10/25
0	Radio communication tester	R&S	CMW500	137688-Lv	2019/10/26	2020/10/25

Report No.: CHTEW20070222 Page: 11 of 47 Issued: 2020-07-28

# 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**

oxtimes Passed	☐ Not Applicable
----------------	------------------

The antenna type is a Built-in antenna, the directional gain of the antenna less than 6 dBi, please refer to the below antenna photo.



Report No.: CHTEW20070222 Page: 12 of 47 Issued: 2020-07-28

#### 5.2. AC Conducted Emission

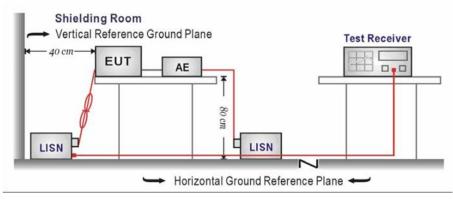
#### LIMIT

#### 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					

<sup>\*</sup> Decreases with the logarithm of the frequency.

#### **TEST CONFIGURATION**



#### **TEST PROCEDURE**

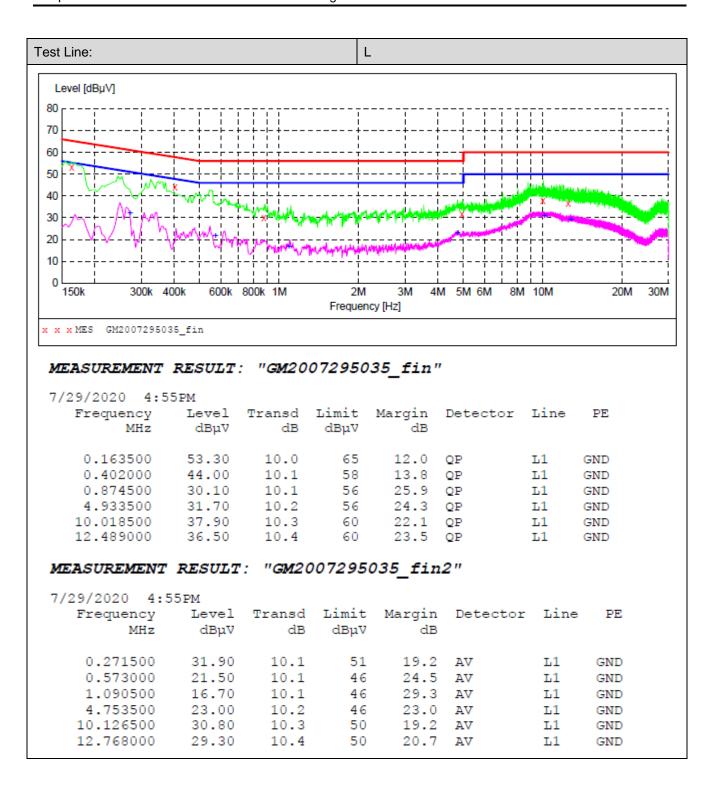
- 1. The EUT was setup according to ANSI C63.10 requirements.
- The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any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

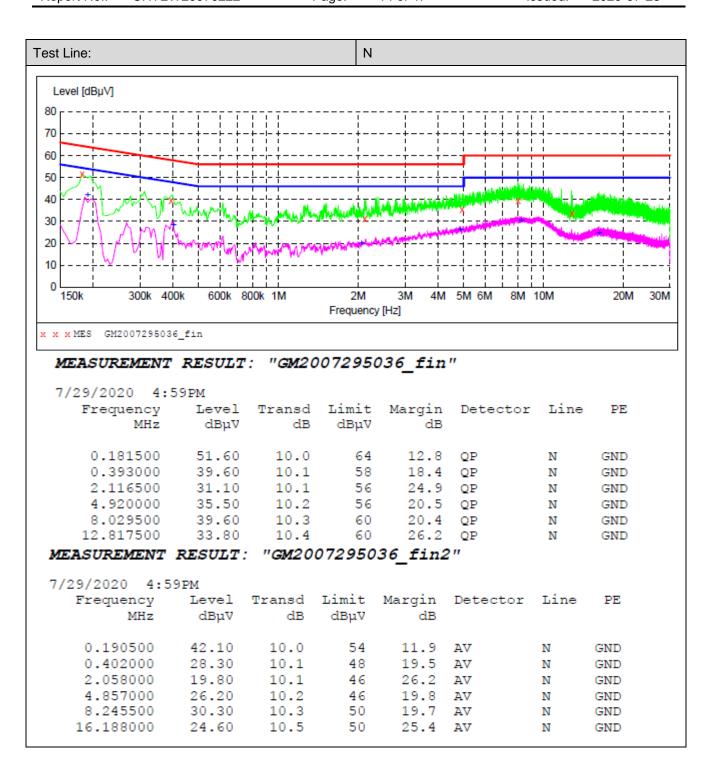
Please refer to the clause 4.2

#### **TEST RESULT**

 Report No.: CHTEW20070222 Page: 13 of 47 Issued: 2020-07-28



Report No.: CHTEW20070222 Page: 14 of 47 Issued: 2020-07-28



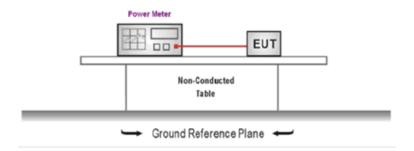
Report No.: CHTEW20070222 Page: 15 of 47 Issued: 2020-07-28

### 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.: CHTEW20070222 Page: 16 of 47 Issued: 2020-07-28

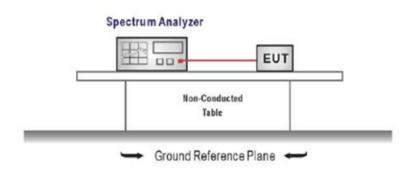
### 5.4. Power Spectral Density

#### 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 =  $3 \text{ kHz} \le \text{RBW} \le 100 \text{ kHz}$ , VBW  $\ge 3 \times \text{RBW}$ 

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.: CHTEW20070222 Page: 17 of 47 Issued: 2020-07-28

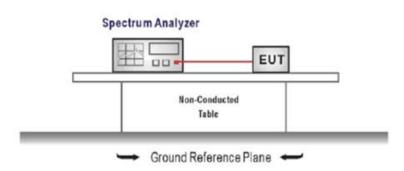
#### 5.5. 6dB bandwidth

#### **LIMIT**

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

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

#### **TEST CONFIGURATION**



#### **TEST PROCEDURE**

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

Center Frequency =DTS channel center frequency

Span=2 x DTS bandwidth

RBW = 100 kHz, VBW ≥ 3 × RBW

Sweep time= auto couple

Detector = Peak

Trace mode = max hold

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

#### TEST MODE:

Please refer to the clause 4.2

#### **TEST RESULT**

#### **TEST Data**

Please refer to appendix C on the appendix report

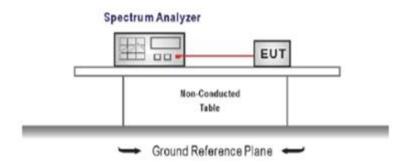
Report No.: CHTEW20070222 Page: 18 of 47 Issued: 2020-07-28

# 5.6. 99% Occupied Bandwidth

#### **LIMIT**

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

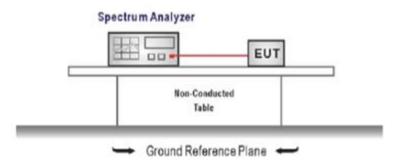
Report No.: CHTEW20070222 Page: 19 of 47 Issued: 2020-07-28

## 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

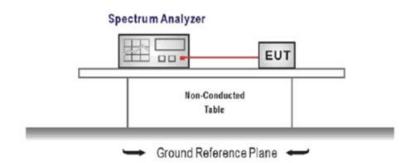
Report No.: CHTEW20070222 Page: 20 of 47 Issued: 2020-07-28

# 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.: CHTEW20070222 Page: 21 of 47 Issued: 2020-07-28

TEST RESUL
------------

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

# **TEST Data**

Please refer to appendix F on the appendix report

Report No.: CHTEW20070222 Page: 22 of 47 Issued: 2020-07-28

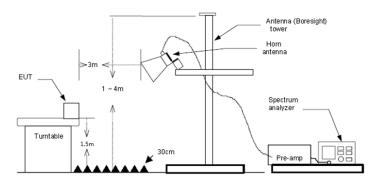
#### 5.9. Radiated Band edge Emission

#### 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. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10 on radiated measurement.
- 5. 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 5.7 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) Margin = Limit Level
- Average measurement was not performed if peak level is lower than average limit(54 dBuV/m).

Report No.: CHTEW20070222 Page: 23 of 47 Issued: 2020-07-28

Туре		80	2.11b	Test	channel	CH01	Polarity		Horizontal
	Mark	Frequen	, ,	Antenna	Cable Pre		Level Limit	0ver	Remark
	1 2	MHz 2310.00 2390.01	dBuV/m 25.79 27.59	dB 27.96 27.72	dB dB 7.30 37.5 7.72 37.4	5 20.00	dBuV/m dBuV/m 43.49 54.00 45.58 54.00	limit -10.51 -8.42	Average Average
									Average
	Mark	Frequen MHz	cy Reading dBuV/m	Antenna dB		eamp Aux B dB	Level Limi dBuV/m dBuV		
	1	2310.00	32.17	27.96	7.30 37.		49.87 74.0	0 -24.13	Peak
	2	2390.01	33.24	27.72	7.72 37.	45 20.00	51.23 74.0	0 -22.77	7 Peak
Туре		80	2.11b	Test	channel	CH01	Polarity		Vertical
	Mark	Frequen	cy Reading	Antenna	Cable Pre	amp Aux	Level Limit	Over	Remark
		MHz	dBuV/m	dB	dB dB	dB	dBuV/m dBuV/m	limit	
	1	2310.00	25.03	27.96	7.30 37.5		42.73 54.00		Average
	2	2390.01	26.01	27.72	7.72 37.4	5 20.00	44.00 54.00	-10.00	Average
	Mark	Frequen	,	Antenna		eamp Aux	Level Limi		
		MHz	dBuV/m	dB	dB d		dBuV/m dBuV		
	1 2	2310.00	32.28 31.95	27.96 27.72	7.30 37. 7.72 37.		49.98 74.0 49.94 74.0		

Туре		802.1	1b	Test c	hannel	CH	<del>1</del> 11	P	olarity	Horizontal
	Mark	Frequency	_	Antenna					Limit Ove	
	1	MHz 2483.49		dB 27.43	dB 7 80		dB 20.00		dBuV/m lim 74.00 -22.0	
	2		33.36				20.00		74.00 -22.6	
	Mark	Frequency MHz	_	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m		Remark
	1	2483.49	25.52	27.43	7.80	37.26	20.00	43.49	54.00 -10.51	
	2	2500.00	24.84	27.40	7.81	37.26	20.00	42.79	54.00 -11.21	Average
Туре	802.11b		Test c	hannel	CH	H11	P	olarity	Vertical	
	Mark	Frequency MHz	_	Antenna dB			Aux dB		Limit Over	
	1		32.30				20.00		74.00 -23.7	
	2	2500.00	31.30	27.40	7.81	37.26	20.00	49.25	74.00 -24.7	5 Peak
		Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit Over	Remark
	Mark	MHz	_		dB	dΒ	dB	dBuV/m	dBuV/m limit	
	Mark 1		dBuV/m					-	dBuV/m limit 54.00 -11.17	

Report No.: CHTEW20070222 Page: 24 of 47 Issued: 2020-07-28

Туре		802.1	1g	Test c	hannel	С	H01		Polarity		Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB		reamp dB		Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1 2310.00 2 2390.01				7.30 37 7.72 37	7.56 7.45			1 54.00 1 54.00		Average Average
	Mark Frequency MHz		Reading dBuV/m	Antenna Cable Pr dB dB d			ıp Aux dB	Level dBuV/		Over m limi	
	1 2	2310.00 2390.01	31.72 36.22	27.96 27.72			20.00 20.00		74.00 74.00		
Туре		802.1	1g	Test channel		С	CH01		Polarity		Vertical
	Mark	Frequency MHz	_	Antenna dB		Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m		Remark
	1 2	2310.00 2390.01	24.62	27.96		7.56	20.00	42.3	32 54.00 52 54.00	-11.68	
	Mark Frequency		Reading dBuV/m		Cable dB		ip Aux dB	Level dBuV/		Over m limi	
	1 2	2310.00 2390.01	32.36 32.92	27.96 27.72		37.56 37.45	20.00 20.00	50.06 50.91	74.00 74.00	-23.94 -23.09	

Туре		802.	11g	Test c	hannel	CI	<del>-</del> 111	F	Polarity	Horizontal
	Mark	Frequency	_				•	Level		
	1		39.89			dB 37.26		57.86	74.00 -16.3	l4 Peak
	2	2500.00	32.33	27.40	7.81	37.26	20.00	50.28	74.00 -23.7	72 Peak 
	Mark	Frequency MHz		Antenna dB	Cable dB		Aux dB	Level dBuV/m	Limit Over dBuV/m limi	
		2483.49	29.74	27.43	7.80	37.26	20.00	47.71	54.00 -6.29	Average
	2	2500.00	25.07	27.40	7.81	37.26	20.00	43.02	54.00 -10.98	Average
Туре		802.	11g	Test c	hannel	Cl	<del>-</del> 111	F	Polarity	Vertical
	Mark	Frequency	_							
	1	MHz 2483.49		dB 27.43	dB 7.80	dB 37.26	dB 20.00		dBuV/m lir 74.00 -17.7	
	2	2500.00	31.64	27.40	7.81	37.26	20.00	49.59	74.00 -24.4	11 Peak
	Mark	Frequency MHz	_			Preamp dB		Level dBuV/m	Limit Over	Remark
	1 2	2483.49 2500.00	28.13		7.80		20.00	46.10	54.00 -7.90 54.00 -11.41	Average

Report No.: CHTEW20070222 Page: 25 of 47 Issued: 2020-07-28

Туре			802.1	1n(HT20)	Test	hannel		CH01	F	Polarity		Horizontal	
	Mark		quency Hz	Reading dBuV/m	Antenna dB	Cable dB	Pre dB		Level dBuV/m	Limit dBuV/			
	1	2310 2390		32.71	27.96 27.72	7.30 7.72	37.5 37.4		50.41 55.88	_	-23.59		
	Mark	Freq MH	uency z	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	ıp Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
	1 2	2310. 2390.			27.96 27.72		37.56 37.45	20.00 20.00		54.00 54.00	-10.45 -7.05	Average Average	
Туре			802.1	1n(HT20)	Test	hannel	(	CH01	F	Polarity		Vertical	
	Mark		 quency Hz	Reading dBuV/m	Antenna dB	Cable dB	Pre dB		Level dBuV/m				
	1 2	2310 2390		32.28 34.43	27.96 27.72	7.30 7.72	37.5 37.4		49.98 52.42		-24.02 -21.58		
	Mark	Freq MH	-	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	np Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
	1	2310. 2390.			27.96 27.72		37.56 37.45	20.00 20.00		54.00 54.00	-10.71 -9.62	Average Average	

Туре			802.1	1n(HT20)	Test o	hannel	C	H11	P	olarity		Horizontal
	Mark	Freq	uency z	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1 2	2483. 2500.		30.91	27.43 27.40		37.26 37.26	20.00 20.00		54.00 54.00	-5.12 -8.93	Average Average
	Mark	Freq	uency	Reading	Antenna	 Cable	Prear	np Aux	Level	Limit	Over	r Remark
	1	MH 2483.		dBuV/m 39.46	dB 27.43	dB 7.80	dB 37.26	dB 20.00	dBuV/m 57.43			
	2	2500.	00	32.24	27.40	7.81	37.26	20.00	50.19	74.00	-23.81	l Peak
Type			802.1	1n(HT20)	Test	hannel	ı C	H11	P	olarity		Vertical
	Mark	Freq	uency z	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	p Aux dB	Level dBuV/m	Limit dBuV/m	Over n limi	
	1 2	2483. 2500.		36.97 31.95	27.43 27.40		37.26 37.26	20.00 20.00	54.94 49.90	74.00 74.00	-19.06	Peak
	Mark		uency		Antenna				Level	Limit	Over	Remark
	1 2	MH: 2483.4 2500.0	49	dBuV/m 25.95 24.43	dB 27.43 27.40		dB 37.26 37.26	dB 20.00 20.00			limit -10.08 -11.62	

Report No.: CHTEW20070222 Page: 26 of 47 Issued: 2020-07-28

# 5.10. Radiated Spurious Emission

#### **LIMIT**

### FCC CFR Title 47 Part 15 Subpart C Section 15.209

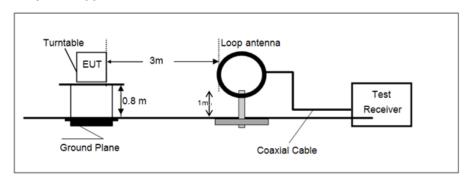
Frequency	Limit (dBuV/m)	Value
0.009 MHz ~0.49 MHz	2400/F(kHz) @300m	Quasi-peak
0.49 MHz ~ 1.705 MHz	24000/F(kHz) @30m	Quasi-peak
1.705 MHz ~30 MHz	30 @30m	Quasi-peak

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

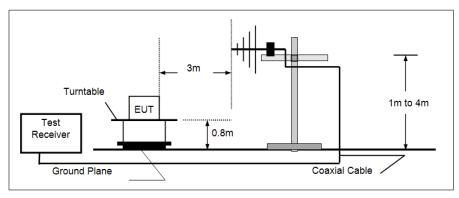
Frequency	Limit (dBuV/m @3m)	Value
30MHz~88MHz	40.00	Quasi-peak
88MHz~216MHz	43.50	Quasi-peak
216MHz~960MHz	46.00	Quasi-peak
960MHz~1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
Above IGHZ	74.00	Peak

#### **TEST CONFIGURATION**

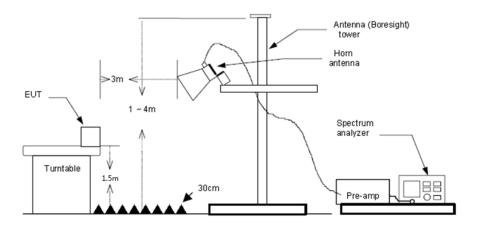
#### → 9 kHz ~ 30 MHz



#### 30 MHz ~ 1 GHz



Above 1 GHz



#### **TEST PROCEDURE**

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

RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold; If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit,

the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

c) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement

For average measurement:

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

#### TEST MODE:

Please refer to the clause 4.2

#### **TEST RESULT**

#### Note:

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

Report No.: CHTEW20070222 Page: 28 of 47 Issued: 2020-07-28

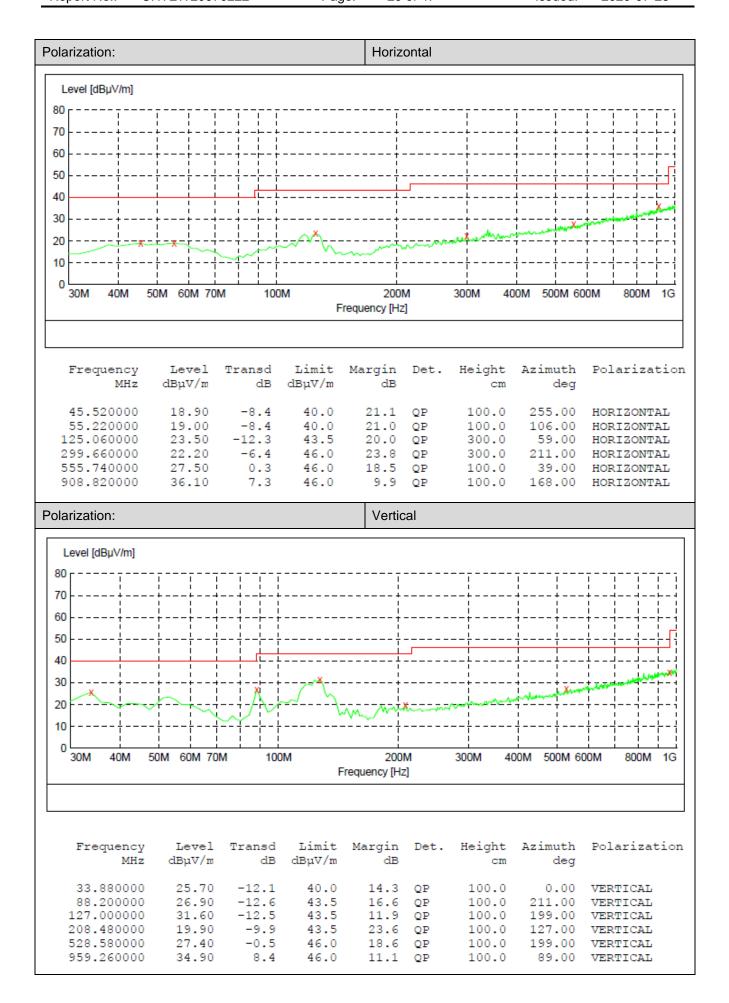
### TEST DATA FOR 9 kHz ~ 30 MHz

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.: CHTEW20070222 Page: 29 of 47 Issued: 2020-07-28



Report No.: CHTEW20070222 Page: 30 of 47 Issued: 2020-07-28

# TEST DATA FOR 1 GHz ~ 25 GHz

Туре		802.1	1b	Test	hannel		CHO	1		Polarity	Horizontal
	Mark	Frequency	Reading	Antenna	Cable	Pre	amp	Aux	Level	Limit Over	Remark
		MHz	dBuV/m	dB	dB	dE	3	dB	dBuV/	m dBuV/m limi	t
	1	1280.07	35.06	25.96	5.36	36.3		0.00	30.01	74.00 -43.99	
	2	4821.76	33.21	31.40	11.52	35.2		0.00	40.89	74.00 -33.11	
	3	6833.77	30.92	34.64	13.58	34.2		0.00	44.92	74.00 -29.08	
	4	8747.72	32.03	37.70	15.48	34.7	79	0.00	50.42	74.00 -23.58	Peak
Туре		802.1	1b	Test o	hannel		CHO	1		Polarity	Vertical
	Mank	Engavener	Reading	Antonno	Cable			A	Leve]	l Limit Ove	- Downale
	Mark	Frequency MHz	dBuV/m	dB	dB	di		dB	dBuV/		
	1	1299.77	35.73	26.00	5.42	36.		0.00	30.86	74.00 -43.1	
	2	3616.45	35.64	29.40	10.05	36.9		0.00	38.11	74.00 -45.1	
	3	5406.96	32.01	31.70	12.11	35.		0.00	40.49	74.00 -33.5	
	4	9322.50	32.53	39.25	15.15	36.4		0.00	50.53	74.00 -33.4	
	4	9522.50	32.33	39.23	15.15	30.4	+0	0.00	50.55	74.00 -25.4	/ Peak
Туре		802.1	1b	Test	hannel		CHO	6		Polarity	Horizontal
	Marala		Dandina	^	C-bl-	D		^		l Limit Ove	- Damanlı
	Mark	Frequency					eamp		Leve]		
		MHz	dBuV/m	dB	dB	dE	_	dB	dBuV/		
	1	1293.17	35.49	25.99	5.40	36.3		0.00	30.56	74.00 -43.4	
	2	3681.47	34.20	29.40	9.85	37.6		0.00	36.41	74.00 -37.5	
	3	5191.17	32.50	31.75	11.50	35.4		0.00	40.35	74.00 -33.6	
	4	8792.37	31.43	37.70	15.79	34.8	38	0.00	50.04	74.00 -23.9	6 Peak
Туре		802.1	1b	Test	hannel		CHO	6		Polarity	Vertical
	Mark	Frequency	Reading	Antenna	Cable	Pr	eamn	Διιν	Leve	l Limit Ove	r Remark
	T I GIT IN	MHz	dBuV/m	dB	dB	ď		dB	dBuV.		
	1	1260.67	35.17	25.92	5.29	36.		0.00	29.92		
	2	3653.46	34.19	29.40	9.93	37.		0.00	36.50		
	3	6001.77	34.84	32.50	12.58	35.		0.00	44.84		
	4	9204.60	31.66	38.82	15.11	35.		0.00	49.64		
									13101		
Туре		802.1	1b	Test	hannel		CH1	1		Polarity	Horizontal
	Mark	Frequency	Reading	Antenna	Cable	Pr	eamp	Aux	Leve	l Limit Ove	r Remark
	TIME IX		Acading	- arrectifie	CODIC			CMA	Leve		A NUMBER N
1		MHz	dBu\//m	dB		el I	R	dB	dBuV	/m dBu\//m 14m	i+
	1	MHz 1283 34	dBuV/m	dB 25.97	dB	di 36		dB a aa	dBuV		
	1	1283.34	35.09	25.97	dB 5.37	36.	36	0.00	30.07	74.00 -43.9	3 Peak
	2	1283.34 3607.26	35.09 33.01	25.97 29.40	dB 5.37 10.08	36. 36.	36 96	0.00 0.00	30.07 35.53	74.00 -43.9 74.00 -38.4	13 Peak 17 Peak
	2	1283.34 3607.26 5138.58	35.09 33.01 31.80	25.97 29.40 32.05	dB 5.37 10.08 11.46	36. 36.	36 96 45	0.00 0.00 0.00	30.07 35.53 39.86	74.00 -43.9 74.00 -38.4 74.00 -34.1	Peak Peak Peak
Type	2	1283.34 3607.26 5138.58 8063.40	35.09 33.01 31.80 32.11	25.97 29.40 32.05 37.20	dB 5.37 10.08 11.46 14.28	36. 36.	36 96 45 32	0.00 0.00 0.00 0.00	30.07 35.53 39.86	74.00 -43.9 74.00 -38.4 74.00 -34.1 74.00 -23.7	Peak Peak Peak Peak
Туре	2	1283.34 3607.26 5138.58	35.09 33.01 31.80 32.11	25.97 29.40 32.05 37.20	dB 5.37 10.08 11.46	36. 36.	36 96 45	0.00 0.00 0.00 0.00	30.07 35.53 39.86	74.00 -43.9 74.00 -38.4 74.00 -34.1	Peak Peak Peak
Туре	2 3 4	1283.34 3607.26 5138.58 8063.40 802.1	35.09 33.01 31.80 32.11 1b	25.97 29.40 32.05 37.20 Test o	dB 5.37 10.08 11.46 14.28 channel	36. 36. 35. 33.	36 96 45 32 CH1	0.00 0.00 0.00 0.00	30.07 35.53 39.86 50.27	74.00 -43.9 74.00 -38.4 74.00 -34.1 74.00 -23.7 Polarity	Peak Peak Peak Peak Peak Vertical
Туре	2 3 4	1283.34 3607.26 5138.58 8063.40 802.1	35.09 33.01 31.80 32.11 1b	25.97 29.40 32.05 37.20 Test c	dB 5.37 10.08 11.46 14.28 channel	36. 36. 35. 33.	36 96 45 32 CH1	0.00 0.00 0.00 0.00	30.07 35.53 39.86 50.27 Level	74.00 -43.9 74.00 -38.4 74.00 -34.1 74.00 -23.7  Polarity  Limit Over	Peak Peak Peak Peak Peak Vertical
Туре	2 3 4 	1283.34 3607.26 5138.58 8063.40 802.1 Frequency	35.09 33.01 31.80 32.11 1b Reading dBuV/m	25.97 29.40 32.05 37.20 Test c	dB 5.37 10.08 11.46 14.28 channel	36. 36. 35. 33. Pre	36 96 45 32 CH1 	0.00 0.00 0.00 0.00 1  Aux dB	30.07 35.53 39.86 50.27 Level	74.00 -43.9 74.00 -38.4 74.00 -34.1 74.00 -23.7  Polarity  Limit Over /m dBuV/m limit	Peak Peak Peak Peak Vertical Remark
Туре	2 3 4 Mark	1283.34 3607.26 5138.58 8063.40 802.1 Frequency MHz 1360.71	35.09 33.01 31.80 32.11 1b Reading dBuV/m 35.67	25.97 29.40 32.05 37.20 Test C	dB 5.37 10.08 11.46 14.28 channel Cable dB 5.49	36. 36. 35. 33. Pre di 36.4	36 96 45 32 CH1  eamp 3	0.00 0.00 0.00 0.00 1  Aux dB 0.00	30.07 35.53 39.86 50.27 Level dBuV/ 30.97	74.00 -43.9 74.00 -38.4 74.00 -34.1 74.00 -23.7  Polarity  Limit Over dBuV/m lim: 74.00 -43.0	Peak Peak Peak Peak Vertical Remark
Туре	2 3 4 Mark	1283.34 3607.26 5138.58 8063.40 802.1 Frequency MHz 1360.71 3525.56	35.09 33.01 31.80 32.11 1b Reading dBuV/m 35.67 34.40	25.97 29.40 32.05 37.20 Test 0 Antenna dB 26.26 29.20	dB 5.37 10.08 11.46 14.28 channel Cable dB 5.49 9.65	36. 35. 33. Pre di 36.4	36 96 45 32 CH1  eamp 3 45 71	0.00 0.00 0.00 1  Aux dB 0.00 0.00	30.07 35.53 39.86 50.27 Level dBuV/ 30.97 36.54	74.00 -43.9 74.00 -38.4 74.00 -34.1 74.00 -23.7  Polarity  Limit Over dBuV/m limi 74.00 -43.03 74.00 -37.46	Peak Peak Peak Vertical Remark Et Peak Peak
Туре	2 3 4 Mark	1283.34 3607.26 5138.58 8063.40 802.1 Frequency MHz 1360.71	35.09 33.01 31.80 32.11 1b Reading dBuV/m 35.67	25.97 29.40 32.05 37.20 Test C	dB 5.37 10.08 11.46 14.28 channel Cable dB 5.49	36. 35. 33. Pre di 36. 36. 35.	36 96 45 32 CH1  eamp 3 45 71	0.00 0.00 0.00 0.00 1 Aux dB 0.00 0.00	30.07 35.53 39.86 50.27 Level dBuV/ 30.97	74.00 -43.9 74.00 -38.4 74.00 -34.1 74.00 -23.7  Polarity  Limit Over (m dBuV/m lim: 74.00 -43.03 74.00 -37.46	Peak Peak Peak Vertical Remark Lt Peak Peak Peak

Report No.: CHTEW20070222 Page: 31 of 47 Issued: 2020-07-28

Туре		802.	11g	Test c	hannel	CHO	)1		Polarity	Horizontal
	Mark	Frequency	_			Preamp		Level		ver Remark
	1	MHz 1247.90	dBuV/m 36.08	dB 25.89	dB 5.25	dB 36.51	dB 0.00	dBuV/ 30.71	m dBuV/m 1 74.00 -43	imit .29 Peak
	2	3176.16	34.88	28.95		37.09	0.00	35.44	74.00 -38	
	3	5177.97	31.65	31.83		35.43	0.00	39.54	74.00 -34	
	4	8042.90	31.44	37.19	14.28	33.31	0.00	49.60	74.00 -24	.40 Peak
Туре		802.	11g	Test o	hannel	CHO	)1		Polarity	Vertical
	Mark	Frequency	Reading	Antenna	Cable	Preamn	Δυν	Level	Limit O	ver Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/		imit
	1	1238.41	35.70	25.83	5.22	36.55	0.00	30.20	74.00 -43	.80 Peak
	2	3672.11	33.86	29.40	9.88	37.03	0.00	36.11	74.00 -37	.89 Peak
	3	6001.77	35.75	32.50	12.58	35.08	0.00	45.75	74.00 -28	
	4	9134.58	31.55	38.54	15.19	36.03	0.00	49.25	74.00 -24	.75 Peak
Туре		802.	11g	Test c	hannel	CHO	16		Polarity	Horizontal
	Mank	Frequency	Ponding	Antonna	Cable	Bnoomn	Aus	Level	. Limit Ov	ver Remark
	riai K	MHz	dBuV/m	dB	dB	dB	dB	dBuV/		imit
	1	1260.67	36.59	25.92	5.29	36.46	0.00	31.34	74.00 -42	
	2	3176.16	35.59	28.95		37.09	0.00	36.15	74.00 -37	
	3	4736.60	30.69	31.40	11.27	35.58	0.00	37.78	74.00 -36	. 22 Peak
	4	7961.43	31.62	36.95	14.41	33.32	0.00	49.66	74.00 -24	.34 Peak
Туре		802.	11g	Test o	hannel	CHO	6		Polarity	Vertical
	Mark	Frequency	Reading	Antenna	Cable	Dreamn	Aux	Level	Limit O	ver Remark
	TIGIT K	MHz	dBuV/m	dB	dB	dB				
	1						ав	aBuv/	′m dBuV/m 1:	imit
		1299.77	35.45	26.00		36.29	dB 0.00	dBuV/ 30.58		imit .42 Peak
1	2	1299.77 5047.83	35.45 31.43	26.00 32.19	5.42				m dBuV/m 1 74.00 -43 74.00 -34	.42 Peak
					5.42	36.29	0.00	30.58	74.00 -43	.42 Peak .25 Peak
	2	5047.83	31.43	32.19	5.42 11.50	36.29 35.37 34.62	0.00 0.00 0.00	30.58 39.75	74.00 -43 74.00 -34	.42 Peak .25 Peak .13 Peak
Туре	2	5047.83 6577.75	31.43 31.05 31.45	32.19 34.26 37.70	5.42 11.50 13.18	36.29 35.37 34.62 34.79	0.00 0.00 0.00 0.00	30.58 39.75 43.87 49.84	74.00 -43 74.00 -34 74.00 -30	.42 Peak .25 Peak .13 Peak
Туре	2 3 4	5047.83 6577.75 8747.72	31.43 31.05 31.45	32.19 34.26 37.70 Test o	5.42 11.50 13.18 15.48 channel	36.29 35.37 34.62 34.79 CH1	0.00 0.00 0.00 0.00	30.58 39.75 43.87 49.84	74.00 -43 74.00 -34 74.00 -30 74.00 -24 Polarity	.42 Peak .25 Peak .13 Peak .16 Peak
Туре	2 3 4	5047.83 6577.75 8747.72 802.	31.43 31.05 31.45 11g	32.19 34.26 37.70 Test o	5.42 11.50 13.18 15.48 channel	36.29 35.37 34.62 34.79 CH1	0.00 0.00 0.00 0.00 1	30.58 39.75 43.87 49.84 Level	74.00 -43 74.00 -34 74.00 -30 74.00 -24 Polarity	.42 Peak .25 Peak .13 Peak .16 Peak  Horizontal
Туре	2 3 4	5047.83 6577.75 8747.72	31.43 31.05 31.45	32.19 34.26 37.70 Test o	5.42 11.50 13.18 15.48 channel	36.29 35.37 34.62 34.79 CH1	0.00 0.00 0.00 0.00 1  Aux dB	30.58 39.75 43.87 49.84	74.00 -43 74.00 -34 74.00 -30 74.00 -24 Polarity	.42 Peak .25 Peak .13 Peak .16 Peak  Horizontal  ver Remark imit
Туре	2 3 4 Mark	5047.83 6577.75 8747.72 802. Frequency	31.43 31.05 31.45 11g Reading dBuV/m	32.19 34.26 37.70 Test of Antenna dB 25.89	5.42 11.50 13.18 15.48 channel Cable dB 5.25	36.29 35.37 34.62 34.79 CH1 Preamp dB 36.51	0.00 0.00 0.00 0.00 1  Aux dB 0.00	30.58 39.75 43.87 49.84 Level	74.00 -43 74.00 -34 74.00 -24  Polarity  Limit Over dBuV/m 1: 74.00 -43	.42 Peak .25 Peak .13 Peak .16 Peak  Horizontal  /er Remark imit .72 Peak
Туре	2 3 4 Mark	5047.83 6577.75 8747.72 802. Frequency MHz 1247.90	31.43 31.05 31.45 11g Reading dBuV/m 35.65	32.19 34.26 37.70 Test of Antenna dB 25.89 29.24 31.49	5.42 11.50 13.18 15.48 channel Cable dB 5.25	36.29 35.37 34.62 34.79 CH1 Preamp dB 36.51 36.75	0.00 0.00 0.00 0.00 1  Aux dB 0.00 0.00 0.00	30.58 39.75 43.87 49.84 Level dBuV/ 30.28 36.65 39.76	74.00 -43 74.00 -34 74.00 -24  Polarity  Limit Over dBuV/m 1: 74.00 -43	.42 Peak .25 Peak .13 Peak .16 Peak  Horizontal  ver Remark imit .72 Peak .35 Peak
Туре	2 3 4 Mark	5047.83 6577.75 8747.72 802. Frequency MHz 1247.90 3534.54	31.43 31.05 31.45 11g Reading dBuV/m 35.65 34.45	32.19 34.26 37.70 Test of Antenna dB 25.89 29.24	5.42 11.50 13.18 15.48 channel Cable dB 5.25 9.71	36.29 35.37 34.62 34.79 CH1 Preamp dB 36.51 36.75 35.20	0.00 0.00 0.00 0.00 1  Aux dB 0.00 0.00 0.00	30.58 39.75 43.87 49.84 Level dBuV/ 30.28 36.65	74.00 -43 74.00 -34 74.00 -24  Polarity  Limit Over dBuV/m 1: 74.00 -43 74.00 -37	.42 Peak .25 Peak .13 Peak .16 Peak  Horizontal  ver Remark imit .72 Peak .35 Peak .24 Peak
Type	2 3 4 Mark	5047.83 6577.75 8747.72 802. Frequency MHz 1247.90 3534.54 4946.07	31.43 31.05 31.45 11g Reading dBuV/m 35.65 34.45 31.94 31.15	32.19 34.26 37.70 Test of Antenna dB 25.89 29.24 31.49 36.72	5.42 11.50 13.18 15.48 channel Cable dB 5.25 9.71 11.53	36.29 35.37 34.62 34.79 CH1 Preamp dB 36.51 36.75 35.20	0.00 0.00 0.00 0.00 1 	30.58 39.75 43.87 49.84 Level dBuV/ 30.28 36.65 39.76	74.00 -43 74.00 -34 74.00 -24  Polarity  Limit Over dBuV/m 1: 74.00 -43 74.00 -37 74.00 -34	.42 Peak .25 Peak .13 Peak .16 Peak  Horizontal  ver Remark imit .72 Peak .35 Peak .24 Peak
	2 3 4 Mark 1 2 3 4	5047.83 6577.75 8747.72 802. Frequency MHz 1247.90 3534.54 4946.07 7880.77	31.43 31.05 31.45 11g Reading dBuV/m 35.65 34.45 31.94 31.15	32.19 34.26 37.70 Test of Antenna dB 25.89 29.24 31.49 36.72 Test of	5.42 11.50 13.18 15.48 channel Cable dB 5.25 9.71 11.53 14.54 channel	36.29 35.37 34.62 34.79 CH1 Preamp dB 36.51 36.75 35.20 33.31 CH1	0.00 0.00 0.00 0.00 1  Aux dB 0.00 0.00 0.00 0.00	30.58 39.75 43.87 49.84 Level dBuV/ 30.28 36.65 39.76 49.10	74.00 -43 74.00 -34 74.00 -30 74.00 -24  Polarity  Limit Over Management of the second	.42 Peak .25 Peak .13 Peak .16 Peak  Horizontal  ver Remark imit .72 Peak .35 Peak .24 Peak .90 Peak  Vertical
	2 3 4 Mark 1 2 3 4	5047.83 6577.75 8747.72 802. Frequency MHz 1247.90 3534.54 4946.07 7880.77 802.	31.43 31.05 31.45 11g Reading dBuV/m 35.65 34.45 31.94 31.15	32.19 34.26 37.70  Test of the second	5.42 11.50 13.18 15.48 channel Cable dB 5.25 9.71 11.53 14.54 channel	36.29 35.37 34.62 34.79 CH1 Preamp dB 36.51 36.75 35.20 33.31 CH1	0.00 0.00 0.00 0.00 1  Aux dB 0.00 0.00 0.00 0.00	30.58 39.75 43.87 49.84 Level dBuV/ 30.28 36.65 39.76 49.10	74.00 -43 74.00 -34 74.00 -30 74.00 -24  Polarity  Limit Over the second of the second	.42 Peak .25 Peak .13 Peak .16 Peak  Horizontal  ver Remark imit .72 Peak .35 Peak .24 Peak .90 Peak  Vertical
	2 3 4 Mark 1 2 3 4	5047.83 6577.75 8747.72 802. Frequency MHz 1247.90 3534.54 4946.07 7880.77 802.	31.43 31.05 31.45 11g Reading dBuV/m 35.65 34.45 31.94 31.15 11g Reading dBuV/m	32.19 34.26 37.70  Test of the second	5.42 11.50 13.18 15.48 channel Cable dB 5.25 9.71 11.53 14.54 channel	36.29 35.37 34.62 34.79 CH1 Preamp dB 36.51 36.75 35.20 33.31 CH1	0.00 0.00 0.00 1 	30.58 39.75 43.87 49.84 Level dBuV/ 30.28 36.65 39.76 49.10	74.00 -43 74.00 -34 74.00 -24  Polarity  Limit Over the second of the se	.42 Peak .25 Peak .13 Peak .16 Peak  Horizontal  ver Remark imit .72 Peak .24 Peak .24 Peak .90 Peak  Vertical
	2 3 4 Mark 1 2 3 4	5047.83 6577.75 8747.72 802. Frequency MHz 1247.90 3534.54 4946.07 7880.77 802. Frequency MHz 1247.90	31.43 31.05 31.45 11g Reading dBuV/m 35.65 34.45 31.94 31.15 11g Reading dBuV/m 35.83	32.19 34.26 37.70  Test of the second	5.42 11.50 13.18 15.48 channel Cable dB 5.25 9.71 11.53 14.54 channel Cable dB 5.25	36.29 35.37 34.62 34.79 CH1 Preamp dB 36.51 35.20 33.31 CH1 Preamp dB 36.51	0.00 0.00 0.00 0.00 1 	30.58 39.75 43.87 49.84 49.84 Level dBuV/ 30.28 36.65 39.76 49.10 Level dBuV/ 30.46	74.00 -43 74.00 -34 74.00 -24  Polarity  Limit On dBuV/m 1: 74.00 -37 74.00 -34 74.00 -24  Polarity  Limit On dBuV/m 1: 74.00 -34 74.00 -34 74.00 -34 74.00 -34	.42 Peak .25 Peak .13 Peak .16 Peak  Horizontal  ver Remark imit .72 Peak .24 Peak .90 Peak  Vertical  ver Remark imit .54 Peak
	2 3 4 Mark 1 2 3 4	5047.83 6577.75 8747.72 802. Frequency MHz 1247.90 3534.54 4946.07 7880.77 802.	31.43 31.05 31.45 11g Reading dBuV/m 35.65 34.45 31.94 31.15 11g Reading dBuV/m	32.19 34.26 37.70  Test of the second	5.42 11.50 13.18 15.48 channel Cable dB 5.25 9.71 11.53 14.54 channel	36.29 35.37 34.62 34.79 CH1 Preamp dB 36.51 35.20 33.31 CH1 Preamp dB 36.51 36.32	0.00 0.00 0.00 1 	30.58 39.75 43.87 49.84 Level dBuV/ 30.28 36.65 39.76 49.10 Level dBuV/ 30.46 36.99	74.00 -43 74.00 -34 74.00 -24  Polarity  Limit Over the second of the se	.42 Peak .25 Peak .13 Peak .16 Peak  Horizontal  ver Remark imit .72 Peak .24 Peak .90 Peak  Vertical  ver Remark imit .54 Peak .01 Peak

Report No.: CHTEW20070222 Page: 32 of 47 Issued: 2020-07-28

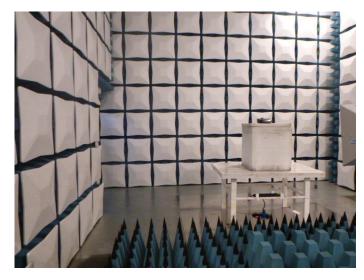
Туре			802.1	1n(HT20)	Test c	hannel	CH	101		Polarity		Horizontal	
	Mark		uency		Antenna		Preamp		Leve]		Over		
	1	MH 1276.	82	dBuV/m 34.89	dB 25.95	dB 5.35	dB 36.39	dB 0.00	dBuV/ 29.80	74.00	limi -44.20	Peak	
	2	3616. 5574.		34.50 31.48	29.40 31.85	10.05 12.32	36.98 35.23	0.00 0.00	36.97 40.42	74.00 74.00	-37.03 -33.58		
	4	8104.		31.18	37.18		33.33	0.00	49.32		-24.68		
Туре				1n(HT20)		hannel	CH			Polarity		Vertical	
	Mark	Freq MH	uency z	Reading dBuV/m	Antenna dB	dB	Preamp dB	Aux dB	Level dBuV/		Over limi		
	1	1098.			25.40		36.89	0.00	30.83		-43.17		
	2	3120.			29.00		37.33	0.00	35.41		-38.59		
	3 4	4760. 8042.			31.40 37.19		35.47 33.31	0.00 0.00	39.30 50.43	74.00 74.00	-34.76 -23.57		
Туре		0042.		1n(HT20)		hannel		106	30.43	Polarity	-23.37	Horizontal	
Турс			002.1		16310		01			1 Olarity			
	Mark	Freq MH	uency Iz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Leve] dBuV/		Over limi		
	1	1192.	01	36.36	25.57	5.08	36.65	0.00	30.36	74.00	-43.64		
	2	3588.		34.34	29.38	10.03	36.90	0.00	36.85	74.00	-37.19		
	3	5073.		31.75	32.20	11.47	35.43	0.00	39.99	74.00	-34.01		
	4	7981.	/2	31.47	37.03	14.35	33.31	0.00	49.54	74.00	-24.46	5 Peak	
Туре			802.1	1n(HT20)	Test c	hannel	CH	106		Polarity		Vertical	
Туре	Mark	Free							Leve		Ove		
Туре		MH	uency Iz	Reading dBuV/m	Antenna dB	Cable dB	Pream; dB	Aux dB	Leve: dBuV	l Limit /m dBuV/m		r Remark it	
Type	1	MH 1225.	Juency Iz 86	Reading dBuV/m 36.04	Antenna dB 25.76	Cable dB 5.18	Preamp dB 36.60	Aux dB 0.00	dBuV, 30.38	l Limit /m dBuV/m 74.00	lim -43.6	r Remark it 2 Peak	
Туре	1 2	MH 1225. 4736.	quency Iz 86 60	Reading dBuV/m 36.04 30.35	Antenna dB 25.76 31.40	Cable dB 5.18 11.27	Pream; dB 36.60 35.58	0.00	dBuV, 30.38 37.44	l Limit /m dBuV/m 74.00 74.00	lim -43.6	r Remark it 2 Peak 6 Peak	
Туре	1	MH 1225. 4736. 6001.	quency Iz 86 60	Reading dBuV/m 36.04 30.35 33.55	Antenna dB 25.76 31.40 32.50	Cable dB 5.18 11.27 12.58	Pream dB 36.60 35.58 35.08	0.00 0.00	dBuV, 30.38 37.44 43.55	l Limit /m dBuV/m 74.00 74.00 74.00	lim -43.6 -36.5 -30.4	r Remark it 2 Peak 6 Peak 5 Peak	
	1 2 3	MH 1225. 4736.	nuency Iz 86 60 77	Reading dBuV/m 36.04 30.35 33.55 30.81	Antenna dB 25.76 31.40 32.50 36.72	Cable dB 5.18 11.27 12.58 14.54	Pream, dB 36.60 35.58 35.08 33.31	0.00 0.00 0.00 0.00 0.00	dBuV, 30.38 37.44	l Limit /m dBuV/m 74.00 74.00 74.00 74.00	lim -43.6	r Remark it 2 Peak 6 Peak 5 Peak 4 Peak	
Type	1 2 3	MH 1225. 4736. 6001.	nuency Iz 86 60 77	Reading dBuV/m 36.04 30.35 33.55	Antenna dB 25.76 31.40 32.50 36.72	Cable dB 5.18 11.27 12.58	Pream dB 36.60 35.58 35.08	0.00 0.00 0.00 0.00 0.00	dBuV, 30.38 37.44 43.55	l Limit /m dBuV/m 74.00 74.00 74.00	lim -43.6 -36.5 -30.4	r Remark it 2 Peak 6 Peak 5 Peak	
	1 2 3 4	MH 1225. 4736. 6001. 7880.	quency 1z 86 60 77 77 802.1	Reading dBuV/m 36.04 30.35 33.55 30.81	Antenna dB 25.76 31.40 32.50 36.72 Test c	Cable dB 5.18 11.27 12.58 14.54	Pream, dB 36.60 35.58 35.08 33.31 CH	Aux dB 0.00 0.00 0.00 0.00	dBuV, 30.38 37.44 43.55 48.76	l Limit /m dBuV/m 74.00 74.00 74.00 74.00 Polarity	lim -43.6 -36.5 -30.4 -25.2	r Remark it 2 Peak 6 Peak 5 Peak 4 Peak	
	1 2 3 4	MH 1225. 4736. 6001. 7880.	quency Hz 86 60 77 77 802.1	Reading dBuV/m 36.04 30.35 33.55 30.81	Antenna dB 25.76 31.40 32.50 36.72	Cable dB 5.18 11.27 12.58 14.54 channel	Pream, dB 36.60 35.58 35.08 33.31 CH	Aux dB 0.00 0.00 0.00 0.00	dBuV, 30.38 37.44 43.55 48.76	l Limit /m dBuV/m 74.00 74.00 74.00 74.00 Polarity	lim -43.6 -36.5 -30.4	r Remark it 2 Peak 6 Peak 5 Peak 4 Peak Horizontal	
	1 2 3 4	MH 1225. 4736. 6001. 7880. Freq	quency dz 86 60 77 77 802.1	Reading dBuV/m 36.04 30.35 33.55 30.81 1n(HT20)	Antenna dB 25.76 31.40 32.50 36.72 Test C	Cable dB 5.18 11.27 12.58 14.54	Preamp dB 36.60 35.58 35.08 33.31 CH	0 Aux dB 0.00 0.00 0.00 0.00	dBuV, 30.38 37.44 43.55 48.76	l Limit /m dBuV/m 74.00 74.00 74.00 74.00 Polarity	lim -43.6. -36.5: -30.4 -25.2 Over limi	r Remark it 2 Peak 6 Peak 5 Peak 4 Peak Horizontal	
	1 2 3 4	MH 1225. 4736. 6001. 7880. Freq	quency dz 86 60 77 77 802.1	Reading dBuV/m 36.04 30.35 33.55 30.81 1n(HT20) Reading dBuV/m 36.40	Antenna dB 25.76 31.40 32.50 36.72 Test C	Cable dB 5.18 11.27 12.58 14.54 channel	Preamp dB 36.60 35.58 35.08 33.31 CH Preamp dB 36.58	0 Aux dB 0.00 0.00 0.00 0.00 111 Aux dB 0.00	dBuV, 30.38 37.44 43.55 48.76 Level dBuV/	l Limit /m dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit /m dBuV/m 74.00	lim -43.6. -36.5 -30.4 -25.2 Over limi -43.21	r Remark it 2 Peak 6 Peak 5 Peak 4 Peak  Horizontal  Remark it Peak	
	1 2 3 4  Mark 1 2 3	MH 1225. 4736. 6001. 7880. Freq MH 1228. 3525. 4996.	86 60 77 77 802.1 802.1	Reading dBuV/m 36.04 30.35 33.55 30.81 1n(HT20) 	Antenna dB 25.76 31.40 32.50 36.72 Test c Antenna dB 25.78 29.20 31.87	Cable dB 5.18 11.27 12.58 14.54 channel  Cable dB 5.19 9.65 11.57	Preamp dB 36.60 35.58 35.08 33.31 CH Preamp dB 36.58 36.71 35.24	Aux dB 0.00 0.00 0.00 111 Aux dB 0.00 0.00 0.00	dBuV, 30.38 37.44 43.55 48.76 Level dBuV/ 30.79 35.86 39.42	l Limit /m dBuV/m 74.00 74.00 74.00 74.00  Polarity  Limit /m dBuV/m 74.00 74.00 74.00 74.00	lim -43.6 -36.5 -30.4 -25.2 Over limi -43.21 -38.14 -34.58	r Remark it 2 Peak 6 Peak 5 Peak 4 Peak  Horizontal  Remark t Peak 1 Peak Peak 1 Peak	
	1 2 3 4	MH 1225. 4736. 6001. 7880. Freq MH 1228. 3525.	86 60 77 77 802.1 802.1	Reading dBuV/m 36.04 30.35 33.55 30.81 1n(HT20) Reading dBuV/m 36.40 33.72	Antenna dB 25.76 31.40 32.50 36.72 Test c Antenna dB 25.78 29.20 31.87	Cable dB 5.18 11.27 12.58 14.54 channel Cable dB 5.19 9.65	Preamp dB 36.60 35.58 35.08 33.31 CH Preamp dB 36.58 36.71 35.24	Aux dB 0.00 0.00 0.00 111 Aux dB 0.00 0.00 0.00	dBuV, 30.38 37.44 43.55 48.76 Level dBuV/ 30.79 35.86 39.42	l Limit /m dBuV/m 74.00 74.00 74.00 74.00  Polarity  Limit /m dBuV/m 74.00 74.00 74.00	lim -43.6 -36.5 -30.4 -25.2 Over limi -43.21 -38.14 -34.58	r Remark it 2 Peak 6 Peak 5 Peak 4 Peak  Horizontal  Remark t Peak 1 Peak Peak 1 Peak	
	1 2 3 4  Mark 1 2 3	MH 1225. 4736. 6001. 7880. Freq MH 1228. 3525. 4996.	nuency 1z 86 60 77 77 <b>802.1</b> nuency 1z 98 56 69	Reading dBuV/m 36.04 30.35 33.55 30.81 1n(HT20) 	Antenna dB 25.76 31.40 32.50 36.72 Test C Antenna dB 25.78 29.20 31.87 37.20	Cable dB 5.18 11.27 12.58 14.54 channel  Cable dB 5.19 9.65 11.57	Preamp dB 36.60 35.58 35.08 33.31 CH Preamp dB 36.58 36.71 35.24	Aux dB 0.00 0.00 0.00 111 Aux dB 0.00 0.00 0.00 0.00	dBuV, 30.38 37.44 43.55 48.76 Level dBuV/ 30.79 35.86 39.42	l Limit /m dBuV/m 74.00 74.00 74.00 74.00  Polarity  Limit /m dBuV/m 74.00 74.00 74.00 74.00	lim -43.6 -36.5 -30.4 -25.2 Over limi -43.21 -38.14 -34.58	r Remark it 2 Peak 6 Peak 5 Peak 4 Peak  Horizontal  Remark t Peak 1 Peak Peak 1 Peak	
Туре	1 2 3 4 Mark 1 2 3 4	MH 1225. 4736. 6001. 7880. Freq MH 1228. 3525. 4996. 8063.	86 60 77 77 802.11 12 98 56 69 40 802.11	Reading dBuV/m 36.04 30.35 33.55 30.81 1n(HT20) 	Antenna dB 25.76 31.40 32.50 36.72  Test c  Antenna dB 25.78 29.20 31.87 37.20  Test c	Cable dB 5.18 11.27 12.58 14.54 channel  Cable dB 5.19 9.65 11.57 14.28 channel	Preamp dB 35.58 35.08 33.31 CH  Preamp dB 36.58 36.71 35.24 33.32 CH	Aux dB 0.00 0.00 0.00 0.00 111 Aux dB 0.00 0.00 0.00 0.00	dBuV, 30.38 37.44 43.55 48.76 Level dBuV/ 30.79 35.86 39.42 49.36	l Limit /m dBuV/m 74.00 74.00 74.00 74.00  Polarity  Limit /m dBuV/m 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00	lim -43.6 -36.5 -30.4 -25.2 Over limi -43.21 -38.14 -34.58 -24.64	r Remark it 2 Peak 6 Peak 5 Peak 4 Peak Horizontal	
Туре	1 2 3 4 Mark 1 2 3 4	MH 1225. 4736. 6001. 7880. Freq MH 1228. 3525. 4996. 8063.	86 60 77 77 802.11 ency iz 98 56 69 40 802.1	Reading dBuV/m 36.04 30.35 33.55 30.81 1n(HT20) 	Antenna dB 25.76 31.40 32.50 36.72 Test C  Antenna dB 25.78 29.20 31.87 37.20 Test C	Cable dB 5.18 11.27 12.58 14.54 channel  Cable dB 5.19 9.65 11.57 14.28 channel	Preamp dB 36.58 35.08 33.31 CH Preamp dB 36.58 36.71 35.24 33.32 CH	Aux dB 0.00 0.00 0.00 0.00 1111 0 Aux dB 0.00 0.00 0.00 0.00	dBuV, 30.38 37.44 43.55 48.76 Level dBuV/ 30.79 35.86 39.42 49.36	l Limit /m dBuV/m 74.00 74.00 74.00 74.00  Polarity  Limit /m dBuV/m 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 This is a second of the content of the	lim -43.6 -36.5 -30.4 -25.2 Over limi -43.21 -38.14 -34.58 -24.64	r Remark it 2 Peak 6 Peak 5 Peak 4 Peak Horizontal  Remark t Peak Peak Peak Peak Vertical	
Туре	1 2 3 4 Mark 1 2 3 4	Freq MH 1225. 4736. 6001. 7880. Freq MH 1228. 3525. 4996. 8063.	802.11 802.11 802.11 802.11 802.11	Reading dBuV/m 36.04 30.35 33.55 30.81 1n(HT20) 	Antenna dB 25.76 31.40 32.50 36.72 Test C  Antenna dB 25.78 29.20 31.87 37.20 Test C	Cable dB 5.18 11.27 12.58 14.54 channel  Cable dB 5.19 9.65 11.57 14.28 channel	Preamp dB 36.58 35.08 33.31 CH Preamp dB 36.58 36.71 35.24 33.32 CH	Aux dB 0.00 0.00 0.00 0.00 111 Aux dB 0.00 0.00 0.00 0.00	dBuV, 30.38 37.44 43.55 48.76 Level dBuV/ 30.79 35.86 39.42 49.36	l Limit /m dBuV/m 74.00 74.00 74.00 74.00  Polarity  Limit /m dBuV/m 74.00 74.00 74.00 74.00 74.00 74.00 74.00 Third /m dBuV/m /m dBuV/m	lim -43.6 -36.5 -30.4 -25.2 Over limi -43.21 -38.14 -34.58 -24.64	r Remark it 2 Peak 6 Peak 5 Peak 4 Peak Horizontal	
Туре	1 2 3 4 Mark 1 2 3 4	MH 1225. 4736. 6001. 7880. Freq MH 1228. 3525. 4996. 8063.	802.11 802.11 802.11 802.11 802.11	Reading dBuV/m 36.04 30.35 33.55 30.81 1n(HT20) 	Antenna dB 25.76 31.40 32.50 36.72 Test C  Antenna dB 25.78 29.20 31.87 37.20 Test C	Cable dB 5.18 11.27 12.58 14.54 channel  Cable dB 5.19 9.65 11.57 14.28 channel	Preamp dB 36.58 35.08 37.31 CH  Preamp dB 36.58 36.71 35.24 33.32 CH  Preamp dB 36.91	Aux dB 0.00 0.00 0.00 0.00 111 Aux dB 0.00 0.00 0.00 111	dBuV, 30.38 37.44 43.55 48.76 Level dBuV/ 30.79 35.86 39.42 49.36 Level dBuV, 30.50 36.35	l Limit /m dBuV/m 74.00 74.00 74.00 Polarity  Limit /m dBuV/m 74.00 74.00 74.00 Polarity  Polarity  Limit /m dBuV/m 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00	lim -43.6 -36.5 -30.4 -25.2 Over limi -43.21 -38.14 -34.58 -24.64	r Remark it 2 Peak 6 Peak 5 Peak 4 Peak Horizontal	
Туре	1 2 3 4 Mark 1 2 3 4	Freq MH 1225. 4736. 6001. 7880. Freq MH 1228. 3525. 4996. 8063.	802.11 802.11 802.11 802.11 802.11 802.11	Reading dBuV/m 36.04 30.35 33.55 30.81 1n(HT20) 	Antenna dB 25.76 31.40 32.50 36.72 Test C  Antenna dB 25.78 29.20 31.87 37.20 Test C	Cable dB 5.18 11.27 12.58 14.54 channel  Cable dB 5.19 9.65 11.57 14.28 channel  Cable dB 4.96	Preamp dB 36.58 35.08 37.31 CH Preamp dB 36.58 36.71 35.24 33.32 CH Preamp dB 36.66	Aux dB 0.00 0.00 0.00 0.00 111 Aux dB 0.00 0.00 0.00 111	dBuV, 30.38 37.44 43.55 48.76 Level dBuV, 30.79 35.86 39.42 49.36 Level dBuV, 30.50	l Limit /m dBuV/m 74.00 74.00 74.00 Polarity  Limit /m dBuV/m 74.00 74.00 74.00 Polarity  Polarity  Limit /m dBuV/m 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00	lim -43.6 -36.5 -30.4 -25.2 Over limi -43.21 -38.14 -34.58 -24.64	r Remark it 2 Peak 6 Peak 5 Peak 4 Peak Horizontal	

Report No.: CHTEW20070222 Page: 33 of 47 Issued: 2020-07-28

# 6. TEST SETUP PHOTOS

### Radiated Emission





AC Conducted Emission



Report No.: CHTEW20070222 Page: 34 of 47 Issued: 2020-07-28

# 7. EXTERANAL AND INTERNAL PHOTOS

# **External photos of EUT**



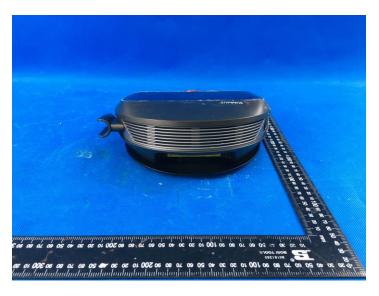




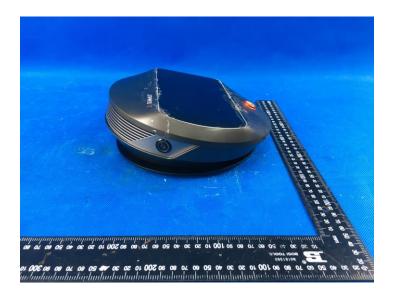
Report No.: CHTEW20070222 Page: 35 of 47 Issued: 2020-07-28







Report No.: CHTEW20070222 Page: 36 of 47 Issued: 2020-07-28







Report No.: CHTEW20070222 Page: 37 of 47 Issued: 2020-07-28

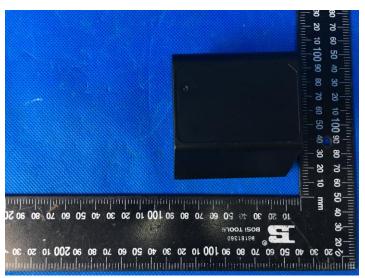


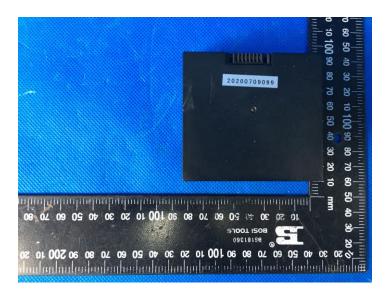




Report No.: CHTEW20070222 Page: 38 of 47 Issued: 2020-07-28







Report No.: CHTEW20070222 Page: 39 of 47 Issued: 2020-07-28

# **Internal photos of EUT**





