FCC REPORT

Report Reference No.....:: CHTEW21030120 Report Verification:

SHT2102033002EW Project No.....

FCC ID.....: 2AY3C-VT980

Applicant's name.....: Shenzhen VTU Systems Co., Ltd.

6/F, Building A, Ganghongji High-tech Intelligent Industrial Park, Address.....:

No. 1008, Songbai Road, Nanshan District, Shenzhen 518055,

P.R. China

Test item description: 4G Body Worn Camera

Trade Mark: VtuSystems

Model/Type reference.....: VT980

VT980M, VT988, iTALK-BC9 Listed Model(s)

FCC CFR Title 47 Part 2 Standard:

FCC CFR Title 47 Part 22

FCC CFR Title 47 Part 24

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

Date of testing.....: Feb. 27, 2021- Mar. 18, 2021

Date of issue..... Mar. 19, 2021

Result....: **Pass**

Compiled by

(position+printedname+signature)...: File administrators Silvia Li

Supervised by

(position+printedname+signature)....: Project Engineer Aaron Fang Silvia Li Aaron.Fang Homstm

Approved by

(position+printedname+signature)....: Manager Hans Hu

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

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

Tianliao, Gongming, Shenzhen, China

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The test report merely correspond to the test sample.

Page: 1 of 32

Report No.: CHTEW21030120 Page: 2 of 32 Issued: 2021-03-19

Contents

<u>ı.</u>	TEST STANDARDS AND REPORT VERSION	<u>ა</u>
1.1.	Applicable Standards	3
1.2.	Report version information	3
<u>2.</u>	TEST DESCRIPTION	4
<u></u>	· 10 · 5 10 · · · · · · · · · · · · · · · · · ·	·
<u>3.</u>	SUMMARY	5
3.1.	Client Information	5
3.2.	Product Description	5
3.3.	Operation state	6
3.4.	EUT configuration	6
3.5.	Modifications	6
<u>4.</u>	TEST ENVIRONMENT	7
4.1.	Testing Laboratory Information	7
4.2.	Equipments Used during the Test	7
4.3.	Environmental conditions	8
4.4.	Statement of the measurement uncertainty	8
<u>5.</u>	TEST CONDITIONS AND RESULTS	9
5.1.	Conducted Output Power	9
5.2.	Peak-to-Average Ratio	10
5.3.	99% Occupied Bandwidth & 26 dB Bandwidth	11
5.4.	Band Edge	12
5.5.	Conducted Spurious Emissions	13
5.6.	Frequency stability VS Temperature measurement	14
5.7.	Frequency stability VS Voltage measurement	15
5.8.	ERP and EIRP	16
5.9.	Radiated Spurious Emission	19
<u>6.</u>	TEST SETUP PHOTOS OF THE EUT	23
<u>7.</u>	EXTERNAL AND INTERNAL PHOTOS OF THE EUT	24
8.	APPENDIX REPORT	32

Report No.: CHTEW21030120 Page: 3 of 32 Issued: 2021-03-19

1. TEST STANDARDS AND REPORT VERSION

1.1. Applicable Standards

The tests were performed according to following standards:

FCC Rules Part 2: FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS

FCC Rules Part 22: PUBLIC MOBILE SERVICES

FCC Rules Part 24: PERSONAL COMMUNICATIONS SERVICES

<u>TIA/EIA 603 E March 2016:</u> Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

ANSI C63.26-2015: American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

KDB 971168 D01 Power Meas License Digital Systems v03: MEASUREMENT GUIDANCE FOR CERTIFICATION OF LICENSED DIGITAL TRANSMITTERS

1.2. Report version information

Revision No.	Date of issue	Description
N/A	2021-03-19	Original

Report No.: CHTEW21030120 Page: 4 of 32 Issued: 2021-03-19

2. Test Description

Test Item	Section in CFR 47	Result	Test Engineer	
	Part 2.1046			
Conducted Output Power	Part 22.913(a)	Pass	Jiongsheng Feng	
	Part 24.232(c)			
Peak-to-Average Ratio	Part 24.232	Pass	Jiongsheng Feng	
000/ O	Part 2.1049			
99% Occupied Bandwidth & 26 dB Bandwidth	Part 22.917(b)	Pass	Jiongsheng Feng	
Baridwidtii	Part 24.238(b)			
	Part 2.1051			
Band Edge	Part 22.917	Pass	Jiongsheng Feng	
	Part 24.238			
	Part 2.1051			
Conducted Spurious Emissions	Part 22.917	Pass	Jiongsheng Feng	
	Part 24.238			
	Part 2.1055(a)(1)(b)			
Frequency stability VS Temperature	Part 22.355	Pass	Jiongsheng Feng	
	Part 24.235			
	Part 2.1055(d)(1)(2)			
Frequency stability VS Voltage	Part 22.355	Pass	Jiongsheng Feng	
	Part 24.235			
ERP and EIRP	Part 22.913(a)	Pass	Pan Xie	
ERP and EIRP	Part 24.232(b)	Pass	Pan Xie	
	Part 2.1053			
Radiated Spurious Emissions	Part 22.917	Pass	Pan Xie	
	Part 24.238			

Note: The measurement uncertainty is not included in the test result.

Report No.: CHTEW21030120 Page: 5 of 32 Issued: 2021-03-19

3. **SUMMARY**

3.1. Client Information

Applicant:	Shenzhen VTU Systems Co., Ltd.
Address:	6/F, Building A, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Nanshan District, Shenzhen 518055, P.R. China
Manufacturer:	Shenzhen VTU Systems Co., Ltd.
Address:	6/F, Building A, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Nanshan District, Shenzhen 518055, P.R. China

3.2. Product Description

Name of EUT:	4G Body Worn C	4G Body Worn Camera			
Trade Mark:	VtuSystems				
Model No.:	VT980				
Listed Model(s):	VT980M, VT988	, iTALK-BC9			
SIM Information:	Support One SIM	л Card			
Power supply:	DC 3.8V				
Hardware version:	P1				
Software version:	BP01.006				
2G:					
Support Network:	GSM, GPRS, EGPRS				
Support Band:	GSM850, PCS1	900			
Modulation:	GSM/GPRS:	GMSK			
	EGPRS:	8PSK			
Transmit Frequency:	GSM850:	824.20MHz-848.80MHz			
	PCS1900:	1850.20MHz-1909.80MHz			
Receive Frequency:	GSM850:	869.20MHz-893.80MHz			
	PCS1900:	1930.20MHz-1989.80MHz			
GPRS Multislot Class:	12				
EGPRS Multislot Class:	12				
Antenna type:	FPC Antenna				
Antenna gain:	GSM850: 0.6dBi	PCS1900: 0.8dBi			

Report No.: CHTEW21030120 Page: 6 of 32 Issued: 2021-03-19

3.3. Operation state

> Test frequency list

GSN	1850	PCS1900		
Channel Frequency (MHz)		Channel	Frequency (MHz)	
128 824.20		512	1850.20	
190 836.60		661	1880.00	
251 848.80		810	1909.80	

> Test mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03 and ANSI C63.26-2015 with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated as following frequency range:

30 MHz to 10th harmonic for GSM850, PCS1900.

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

Test modes								
Band	Conducted							
GSM 850	■ GSM link ■ GPRS Class 8 link ■ EGPRS Class 8 link	■ GSM link ■ GPRS Class 8 link ■ EGPRS Class 8 link						
PCS 1900	■ GSM link ■ GPRS Class 8 link ■ EGPRS Class 8 link	■ GSM link ■ GPRS Class 8 link ■ EGPRS Class 8 link						

3.4. EUT configuration

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

supplied by the manufacturer

supplied by the lab

	,	Manufacturer:	/
0	/	Model No.:	/
	1	Manufacturer:	/
0		Model No.:	/

3.5. Modifications

No modifications were implemented to meet testing criteria.

Report No.: CHTEW21030120 Page: 7 of 32 Issued: 2021-03-19

4. TEST ENVIRONMENT

4.1. 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:	Tel: 86-755-26715499 E-mail: cs@szhtw.com.cn http://www.szhtw.com.cn				
Qualifications	Type Accreditation Number				
Qualifications	FCC	762235			

4.2. Equipments Used during the Test

Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Signal and spectrum Analyzer	R&S	HTWE0242	FSV40	100048	2020/10/19	2021/10/18
•	Signal & Spectrum Analyzer	R&S	HTWE0262	FSW26	103440	2020/10/19	2021/10/18
•	Spectrum Analyzer	Agilent	HTWE0286	N9020A	MY50510187	2020/10/19	2021/10/18
•	Radio communication tester	R&S	HTWE0287	CMW500	137688-Lv	2020/10/19	2021/10/18
•	Test software	Tonscend	N/A	JS1120	N/A	N/A	N/A

•	Radiated Spu	ırious Emission					
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
•	Loop Antenna	R&S	HTWE0170	HFH2-Z2	100020	2018/04/02	2021/04/01
•	Broadband Horn Antenna	SCHWARZBECK	HTWE0103	BBHA9170	BBHA9170472	2018/10/12	2021/10/11
•	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0123	VULB9163	538	2018/04/04	2021/04/03
•	Horn Antenna	SCHWARZBECK	HTWE0126	9120D	1011	2020/04/01	2023/03/31
•	Pre-amplifier	CD	HTWE0071	PAP-0102	12004	2020/11/12	2021/11/11
•	Broadband Preamplifier	SCHWARZBECK	HTWE0201	BBV 9718	9718-248	2020/05/10	2021/05/09
•	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	2021/05/09
•	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
•	EMI Test Software	Audix	N/A	E3	N/A	N/A	N/A

Report No.: CHTEW21030120 Page: 8 of 32 Issued: 2021-03-19

•	Auxiliary Equipment								
Used	Test Equipment	Test Equipment Manufacturer Equipment No. Model No. Serial No. Last Cal. Date Date (YY-MM-DD) (YY-MM-DD)							
•	Climate chamber	ESPEC	HTWE0254	GPL-2	N/A	2020/10/21	2021/10/20		
•	DC Power Supply	Gwinstek	HTWE0274	SPS-2415	GER835793	N/A	N/A		

4.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

	VN=Nominal Voltage	DC 3.80V			
Voltage	VL=Lower Voltage	DC 3.60V			
	VH=Higher Voltage	DC 4.35V			
Tomporoturo	TN=Normal Temperature	25 °C			
Temperature	Extreme Temperature	From −30° to + 50° centigrade			
Humidity	30~60 %				
Air Pressure	950-1050 hPa				

4.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01"Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1"and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongwei laboratory is reported:

Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.51 dB	(1)
Transmitter power Radiated	2.66dB for <1GHz 3.44dB for >1GHz	(1)
Conducted spurious emissions 9kHz~40GHz	0.51 dB	(1)
Radiated spurious emissions	2.66dB for <1GHz 3.44dB for >1GHz	(1)
Occupied Bandwidth	15Hz for <1GHz 70Hz for >1GHz	(1)
Frequency error	15Hz for <1GHz 70Hz for >1GHz	(1)

⁽¹⁾ This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

Report No.: CHTEW21030120 Page: 9 of 32 Issued: 2021-03-19

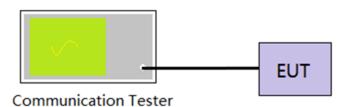
5. TEST CONDITIONS AND RESULTS

5.1. Conducted Output Power

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT output port was connected to communication tester.
- 2. Set EUT at maximum power through communication tester.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. Measure the maximum burst average power.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Refer to appendix A on the section 8 appendix report

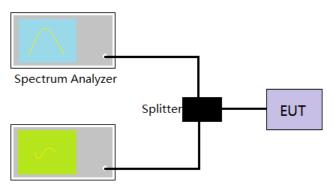
Report No.: CHTEW21030120 Page: 10 of 32 Issued: 2021-03-19

5.2. Peak-to-Average Ratio

LIMIT

13dB

TEST CONFIGURATION



Communication Tester

TEST PROCEDURE

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
- 2. Set EUT in maximum power output.
- 3. Center Frequency = Carrier frequency, RBW > Emission bandwidth of signal
- 4. The signal analyzer was set to collect one million samples to generate the CCDF curve
- 5. The measurement interval was set depending on the type of signal analyzed.
 - i. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms.
 - ii. For bursttransmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that issynced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in whichthetransmitter is operating at maximum power
- 6. Record the maximum PAPR level associated with a probability of 0.1%.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

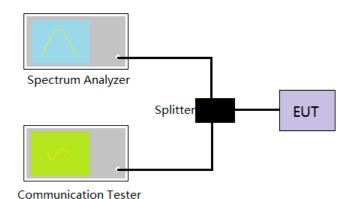
Refer to appendix B on the section 8 appendix report

Report No.: CHTEW21030120 Page: 11 of 32 Issued: 2021-03-19

5.3. 99% Occupied Bandwidth & 26 dB Bandwidth

LIMIT N/A

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
- 2. Set EUT in maximum power output.
- 3. Spectrum analyzer setting as follow:

Center Frequency= Carrier frequency, RBW=1% to 5% of anticipated OBW, VBW= 3 * RBW, Detector=Peak.

Trace maximum hold.

4. Record the value of 99% Occupied bandwidth and -26dB bandwidth.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Refer to appendix C on the section 8 appendix report

Report No.: CHTEW21030120 Page: 12 of 32 Issued: 2021-03-19

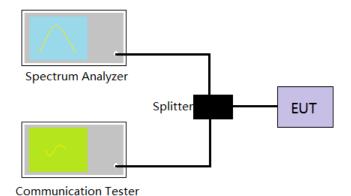
5.4. Band Edge

LIMIT

Part 24.238 and Part 22.917 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
- 2. Set EUT in maximum power output.
- 3. The band edges of low and high channels were measured.
- Spectrum analyzer setting as follow:
 RBW=3KHz, VBW = 10KHz, Sweep time= Auto
- 5. Record the test plot.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Refer to appendix D on the section 8 appendix report

Report No.: CHTEW21030120 Page: 13 of 32 Issued: 2021-03-19

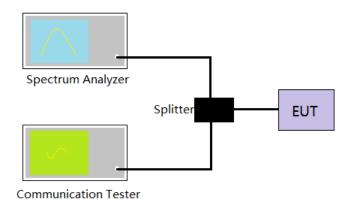
5.5. Conducted Spurious Emissions

LIMIT

Part 24.238 and Part 22.917 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
- 2. Set EUT in maximum power output.
- 3. Spectrum analyzer setting as follow:

Below 1GHz, RBW=100KHz, VBW = 300KHz, Detector=Peak, Sweep time= Auto Above 1GHz, RBW=1MHz, VBW=3MHz, Detector=Peak, Sweep time= Auto Scan frequency range up to 10th harmonic.

4. Record the test plot.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Refer to appendix E on the section 8 appendix report

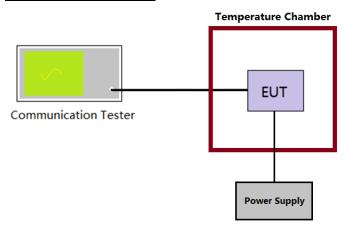
Report No.: CHTEW21030120 Page: 14 of 32 Issued: 2021-03-19

5.6. Frequency stability VS Temperature measurement

LIMIT

2.5ppm

TEST CONFIGURATION



TEST PROCEDURE

- 1. The equipment under test was connected to an external DC power supply and input rated voltage.
- 2. The EUT output port was connected to communication tester.
- 3. The EUT was placed inside the temperature chamber.
- 4. Turn EUT off and set the chamber temperature to –30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency.
- 5. Repeat step 4 measure with 10°C increased per stage until the highest temperature of +50°C reached.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Refer to appendix F on the section 8 appendix report

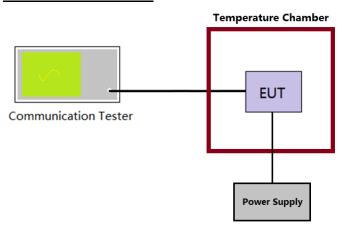
Report No.: CHTEW21030120 Page: 15 of 32 Issued: 2021-03-19

5.7. Frequency stability VS Voltage measurement

LIMIT

2.5ppm

TEST CONFIGURATION



TEST PROCEDURE

- 1. The equipment under test was connected to an external DC power supply and input rated voltage.
- 2. The EUT output port was connected to communication tester.
- 3. The EUT was placed inside the temperature chamber at 25°C
- 4. The power supply voltage to the EUT was varied ±15% of the nominal value measured at the input to the EUT
- 5. Record the maximum frequency change.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Refer to appendix F on the section 8 appendix report

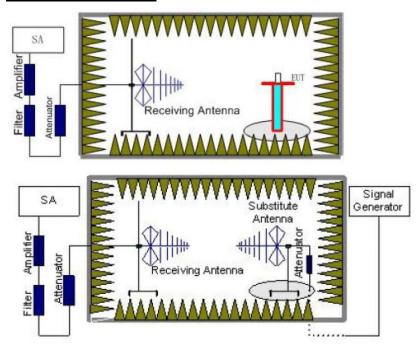
Report No.: CHTEW21030120 Page: 16 of 32 Issued: 2021-03-19

5.8. ERP and EIRP

LIMIT

GSM850: 7W (38.45dBm) ERP PCS1900: 2W (33dBm) EIRP

TEST CONFIGURATION



TEST PROCEDURE

- 1. Place the EUT in the center of the turntable.
 - a) For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, the EUT shall be placed on a RF-transparent table at a nominal height of 80 cm above the reference ground plane
 - b) For radiated measurements performed at frequencies above 1 GHz, the EUT shall be placed on an RF transparent table at a nominal height of 1.5 m above the ground plane.
- 2. Unless the EUT uses an integral antenna, the EUT shall be terminated with a non-radiating transmitter load. In cases where the EUT uses an adjustable antenna, the antenna shall be adjusted through typical positions and lengths to maximize emissions levels.
- 3. The EUT shall be tested while operating on the frequency per manufacturer specification. Set the transmitter to operate in continuous transmit mode.
- 4. Receiver or Spectrum set as follow:
 - Below 1GHz, RBW=100kHz, VBW=300kHz, Detector=Peak, Sweep time=Auto Above 1GHz, RBW=1MHz, VBW=3MHz, Detector=Peck, Sweep time=Auto
- 5. Each emission under consideration shall be evaluated:
 - a) Raise and lower the measurement antenna from 1 m to 4 m, as necessary to enable detection of the maximum emission amplitude relative to measurement antenna height.
 - b) Rotate the EUT through 360° to determine the maximum emission level relative to the axial position.
 - c) Return the turntable to the azimuth where the highest emission amplitude level was observed.
 - d) Vary the measurement antenna height again through 1 m to 4 m again to find the height associated with the maximum emission amplitude.
 - e) Record the measured emission amplitude level and frequency
- 6. Repeat step 5 for each emission frequency with the measurement antenna oriented in both the horizontal and vertical polarizations to determine the orientation that gives the maximum emissions amplitude.
- 7. Set-up the substitution measurement with the reference point of the substitution antenna located as near as possible to where the center of the EUT radiating element was located during the initial EUT measurement.
- 8. Maintain the previous measurement instrument settings and test set-up, with the exception that the EUT is removed and replaced by the substitution antenna.
- 9. Connect a signal generator to the substitution antenna; locate the signal generator so as to minimize any

Report No.: CHTEW21030120 Page: 17 of 32 Issued: 2021-03-19

potential influences on the measurement results. Set the signal generator to the frequency where emissions are detected, and set an output power level such that the radiated signal can be detected by the measurement instrument, with sufficient dynamic range relative to the noise floor.

- 10. For each emission that was detected and measured in the initial test
 - a) Vary the measurement antenna height between 1 m to 4 m to maximize the received (measured) signal amplitude.
 - b) Adjust the signal generator output power level until the amplitude detected by the measurement instrument equals the amplitude level of the emission previously measured directly in step 5 and step 6.
 - c) Record the output power level of the signal generator when equivalence is achieved in step b).
- 11. Repeat step 8 through step 10 with the measurement antenna oriented in the opposite polarization.
- 12. Calculate the emission power in dBm referenced to a half-wave dipole using the following equation: Pe = Ps(dBm) cable loss (dB) + antenna gain (dBd) where

Pe = equivalent emission power in dBm

Ps = source (signal generator) power in dBm

NOTE—dBd refers to the measured antenna gain in decibels relative to a half-wave dipole.

13. Correct the antenna gain of the substitution antenna if necessary to reference the emission power to a half-wave dipole. When using measurement antennas with the gain specified in dBi, the equivalent dipole-referenced gain can be determined from: gain (dBd) = gain (dBi) - 2.15 dB.

If necessary, the antenna gain can be calculated from calibrated antenna factor information

14. Provide the complete measurement results as a part of the test report.

TECT	MODE:
1 L O I	WIODL.

Please refer to the clause 3.3

TEST	RES	ULTS
-------------	-----	------

□ Passed	■ Not Applicable

Report No.: CHTEW21030120 Page: 18 of 32 Issued: 2021-03-19

Mode	Channel	Antenna Pol.	ERP	Limit (dBm)	Result	
	128	V	29.62			
	120	Н	27.07		Dana	
GSM850	190	V	30.82	<38.45		
GSIVIOSO	190	Н	28.25	<30.45	Pass	
	251	V	31.79			
	251	Н	28.88			
	128	V	29.52		Pass	
		Н	28.13	<38.45		
GPRS850	190 251	V	31.20			
GFK3650		Н	30.86			
		V	31.84			
		Н	31.68			
	128	V	22.41			
	120	Н	21.57			
EGPRS850	190	V	23.60	<38.45	Pass	
	190	Н	20.71	<30.40	Fass	
	251	V	23.98			
	251	Н	22.11			

Mode	Channel	Antenna Pol.	EIRP	Limit (dBm)	Result	
	512	V	24.27			
	512	Н	27.30		D	
PCS1900	661	V	26.38	<33.00		
PC31900	001	Н	26.34	<33.00	Pass	
	810	V	26.51			
	810	Н	28.26			
	512	V	24.53		Pass	
	312	Н	27.12	<33.00		
GPRS1900	810	V	26.75			
GPR31900		Н	26.52			
		V	27.09			
		Н	28.35			
	F12	V	20.12		D	
	512	Н	21.73			
EGPRS1900	004	V	20.02	-22.00		
	661	Н	22.65	<33.00	Pass	
	810	V	20.48			
	010	Н	21.34			

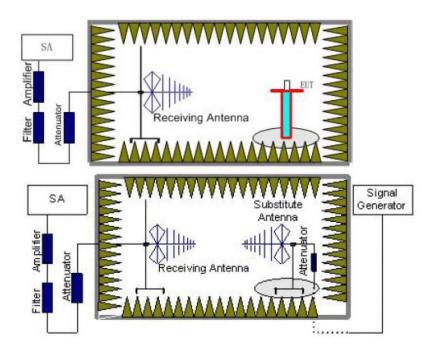
Report No.: CHTEW21030120 Page: 19 of 32 Issued: 2021-03-19

5.9. Radiated Spurious Emission

<u>LIMIT</u>

-13dBm

TEST CONFIGURATION



TEST PROCEDURE

- Place the EUT in the center of the turntable.
 - a) For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, the EUT shall be placed on a RF-transparent table at a nominal height of 80 cm above the reference ground plane
 - b) For radiated measurements performed at frequencies above 1 GHz, the EUT shall be placed on an RF transparent table at a nominal height of 1.5 m above the ground plane.
- Unless the EUT uses an integral antenna, the EUT shall be terminated with a non-radiating transmitter load. In cases where the EUT uses an adjustable antenna, the antenna shall be adjusted through typical positions and lengths to maximize emissions levels.
- 3. The EUT shall be tested while operating on the frequency per manufacturer specification. Set the transmitter to operate in continuous transmit mode.
- 4. Receiver or Spectrum set as follow:
 - Below 1GHz, RBW=100kHz, VBW=300kHz, Detector=Peak, Sweep time=Auto Above 1GHz, RBW=1MHz, VBW=3MHz, Detector=Peck, Sweep time=Auto
- 5. Each emission under consideration shall be evaluated:
 - a) Raise and lower the measurement antenna from 1 m to 4 m, as necessary to enable detection of the maximum emission amplitude relative to measurement antenna height.
 - b) Rotate the EUT through 360° to determine the maximum emission level relative to the axial position.
 - c) Return the turntable to the azimuth where the highest emission amplitude level was observed.
 - d) Vary the measurement antenna height again through 1 m to 4 m again to find the height associated with the maximum emission amplitude.
 - e) Record the measured emission amplitude level and frequency
- 6. Repeat step 5 for each emission frequency with the measurement antenna oriented in both the horizontal and vertical polarizations to determine the orientation that gives the maximum emissions amplitude.
- 7. Set-up the substitution measurement with the reference point of the substitution antenna located as near as possible to where the center of the EUT radiating element was located during the initial EUT measurement.
- 8. Maintain the previous measurement instrument settings and test set-up, with the exception that the EUT is removed and replaced by the substitution antenna.
- Connect a signal generator to the substitution antenna; locate the signal generator so as to minimize any
 potential influences on the measurement results. Set the signal generator to the frequency where
 emissions are detected, and set an output power level such that the radiated signal can be detected by

Report No.: CHTEW21030120 Page: 20 of 32 Issued: 2021-03-19

the measurement instrument, with sufficient dynamic range relative to the noise floor.

- 10. For each emission that was detected and measured in the initial test
 - a) Vary the measurement antenna height between 1 m to 4 m to maximize the received (measured) signal amplitude.
 - b) Adjust the signal generator output power level until the amplitude detected by the measurement instrument equals the amplitude level of the emission previously measured directly in step 5 and step 6.
 - c) Record the output power level of the signal generator when equivalence is achieved in step b).
- 11. Repeat step 8 through step 10 with the measurement antenna oriented in the opposite polarization.
- 12. Calculate the emission power in dBm referenced to a half-wave dipole using the following equation: Pe = Ps(dBm) cable loss (dB) + antenna gain (dBd) where

Pe = equivalent emission power in dBm

Ps = source (signal generator) power in dBm

- NOTE—dBd refers to the measured antenna gain in decibels relative to a half-wave dipole.
- 13. Correct the antenna gain of the substitution antenna if necessary to reference the emission power to a half-wave dipole. When using measurement antennas with the gain specified in dBi, the equivalent dipole-referenced gain can be determined from: gain (dBd) = gain (dBi) 2.15 dB.
 - If necessary, the antenna gain can be calculated from calibrated antenna factor information
- 14. Provide the complete measurement results as a part of the test report.

TEST	M	O	DE	:
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Please refer to the clause 3.3

TEST RESULTS

□ Passed □	■ Not Applicable
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Note: Worst case at GSM850/PCS1900

Report No.: CHTEW21030120 Page: 21 of 32 Issued: 2021-03-19

Mark	Channel: 251					Polariz	zation: Hori	zontal		
1	Mark		_							Remark
2 695,73 -78,41 28,44 9,25 29,67 -79,39 -13,08 -57,39 Peek 1698,14 -56,86 36,34 11,70 27,56 -36,38 -13,08 -23,38 Peek 4 2456,32 -66,56 39,51 13,58 26,83 -42,30 -13,00 -23,31 Peek 5 392,09 -59,94 39,65 9,15 36,83 -47,97 -13,00 -34,97 Peek 6 5991,22 -66,28 44,17 11,44 35,46 -46,13 -13,00 -34,97 Peek 1 1 1 1 1 1 1 1 1	_									
3										
A										
S 3392.09										
Channel: 251										
Mark										
Mile	Channel: 251					Polariz	zation: Vert	ical		
Mile	Mark	Frequency	Peading	Antenna	Cable	Dreamn	Laval	limit	Over	Demark
1 37.97	Mark		_							Kelliai K
2	1									Peak
3										
4										
Sample										
Channel: 190										
Mark Frequency Reading Antenna Cable Cable										
Mark Frequency Reading Antenna Cable Preamp Level Limit Over Remark	Channel: 190					Polariz	zation: Hori	zontal		
Mark Frequency Reading Antenna Cable Preamp Level Limit Over Remark		Fe	D42	A	C-1-3			12-11		Dame - I:
1 38.78 -76.81 28.61 6.54 30.92 -72.58 -13.00 -59.58 Peak 2 76.45 -68.19 16.99 6.83 30.85 -75.31 -13.00 -52.89 Peak 3 1672.22 -59.03 36.24 11.68 27.78 -38.89 -13.00 -25.89 Peak 4 1909.96 -70.15 38.07 12.01 25.96 -46.03 -13.00 -33.03 Peak 5 3343.88 -66.57 40.07 9.08 36.93 54.35 -13.00 -41.35 Peak 6 4178.52 -68.70 42.17 10.22 36.25 -52.56 -13.00 -39.56 Peak Channel: 190	Mark									Remark
2										BI-
1672, 22 -59, 03 36, 24 11, 68 27, 78 -38, 89 -13, 00 -25, 89 Peak 1909, 96 -70, 15 38, 07 12, 01 25, 96 -46, 03 -13, 00 -33, 03 Peak 5 3343, 88 -66, 57 40, 07 9, 08 36, 93 -54, 35 -13, 00 -39, 56 Peak -41, 15 Peak 6 4178, 52 -68, 70 42, 17 10, 22 36, 25 -52, 56 -13, 00 -39, 56 Peak -41, 15 Peak -42, 15 Peak										
1999,96										
S 3343.88 -66.57 40.07 9.08 36.93 -54.35 -13.00 -41.35 Peak										
Channel: 190 Preamp Level Limit Over Remark Mark Frequency 66.87 76.75 28.43 9.14 29.77 68.95 -13.00 -39.56 Peak										
Mark										
Mark Frequency Reading Antenna Cable Box Box Cable C		4170.32	-00.70	42.17	10.22				-33.30	reak
Mirz dBm dB dB dB dB dBm dBm limit						1 010112				
Mirz dBm dB dB dB dB dBm dBm limit	Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
2			_					dBm	limit	
3	1	74.59	-63.67	20.44	6.82	30.86	-67.27	-13.00	-54.27	Peak
A	2	666.98	-76.75	28.43	9.14	29.77	-68.95	-13.00	-55.95	Peak
Saddan	3	1672.22	-57.93	36.17	11.68	27.78	-37.86	-13.00	-24.86	Peak
Channel: 128 Mark Frequency Reading MHz dBm dB dBm dBm	4	2510.89	-70.29	39.22	13.95	26.32	-43.44	-13.00	-30.44	Peak
Mark Frequency Reading Antenna Cable Bara Cable	5	3343.88	-64.71	40.09	9.08	36.93	-52.47	-13.00	-39.47	Peak
Mark Frequency Reading Antenna Cable Breamp Level Limit Over Remark	6	4184.57	-66.10	42.45	10.22	36.23	-49.66	-13.00	-36.66	Peak
MHz	Channel: 128					Polariz	zation: Hori	zontal		
MHz										
1 75.64 -69.40 16.64 6.82 30.71 -76.65 -13.00 -63.65 Peak 2 375.99 -78.19 25.37 8.22 30.12 -74.72 -13.00 -61.72 Peak 3 1647.81 -58.03 36.15 11.67 29.05 -39.26 -13.00 -26.26 Peak 4 2409.71 -68.37 39.77 13.26 28.24 -43.58 -13.00 -30.58 Peak 5 4118.49 -61.46 41.86 10.21 36.28 -45.67 -13.00 -32.67 Peak 6 7773.22 -76.80 47.85 14.42 33.19 -47.72 -13.00 -34.72 Peak Channel: 128 Polarization: Vertical	Mark									Remark
2 375.99 -78.19 25.37 8.22 30.12 -74.72 -13.00 -61.72 Peak 3 1647.81 -58.03 36.15 11.67 29.05 -39.26 -13.00 -26.26 Peak 4 2409.71 -68.37 39.77 13.26 28.24 -43.58 -13.00 -30.58 Peak 5 4118.49 -61.46 41.86 10.21 36.28 -45.67 -13.00 -32.67 Peak 6 7773.22 -76.80 47.85 14.42 33.19 -47.72 -13.00 -34.72 Peak Channel: 128 Polarization: Vertical Preamp Level Limit Over Remark										
3 1647.81 -58.03 36.15 11.67 29.05 -39.26 -13.00 -26.26 Peak 4 2409.71 -68.37 39.77 13.26 28.24 -43.58 -13.00 -30.58 Peak 5 4118.49 -61.46 41.86 10.21 36.28 -45.67 -13.00 -32.67 Peak 6 7773.22 -76.80 47.85 14.42 33.19 -47.72 -13.00 -34.72 Peak Channel: 128 Mark Frequency Reading Antenna Cable Preamp Level Limit Over Remark MHz dBm dB dB dB dBm dBm limit 1 38.10 -68.25 21.67 6.54 30.81 -70.85 -13.00 -57.85 Peak 2 75.11 -64.72 20.82 6.82 30.72 -67.80 -13.00 -54.80 Peak 3 1647.81 -60.24 36.11 11.67 29.05 -41.51 -13.00 -28.51 Peak 4 2639.03 -63.75 39.46 14.44 26.59 -36.44 -13.00 -23.44 Peak 5 4118.49 -72.40 42.13 10.21 36.28 -56.34 -13.00 -43.34 Peak										
4 2409.71 -68.37 39.77 13.26 28.24 -43.58 -13.00 -30.58 Peak 5 4118.49 -61.46 41.86 10.21 36.28 -45.67 -13.00 -32.67 Peak Channel: 128 Polarization: Vertical Mark Frequency MHz Reading dBm Antenna dB dB Cable dB dB dBm Level dBm Limit dBm Over Nemark 1 38.10 -68.25 21.67 6.54 30.81 -70.85 -13.00 -57.85 Peak 2 75.11 -64.72 20.82 6.82 30.72 -67.80 -13.00 -54.80 Peak 3 1647.81 -60.24 36.11 11.67 29.05 -41.51 -13.00 -28.51 Peak 4 2639.03 -63.75 39.46 14.44 26.59 -36.44 -13.00 -23.44 Peak 5 4118.49 -72.40 42.13 10.21 36.28 -56.34 -13.00 -43.34 Peak <td></td>										
5 4118.49 -61.46 41.86 10.21 36.28 -45.67 -13.00 -32.67 Peak Channel: 128 Polarization: Vertical Polarization: Vertical Mark Frequency MHz Reading dBm Antenna dB dB Preamp dBm Level dBm Limit dBm Over Remark dBm 1 38.10 -68.25 21.67 6.54 30.81 -70.85 -13.00 -57.85 Peak 2 75.11 -64.72 20.82 6.82 30.72 -67.80 -13.00 -54.80 Peak 3 1647.81 -60.24 36.11 11.67 29.05 -41.51 -13.00 -28.51 Peak 4 2639.03 -63.75 39.46 14.44 26.59 -36.44 -13.00 -23.44 Peak 5 4118.49 -72.40 42.13 10.21 36.28 -56.34 -13.00 -43.34 Peak										
6 7773.22 -76.80 47.85 14.42 33.19 -47.72 -13.00 -34.72 Peak Channel: 128 Polarization: Vertical Mark Frequency Meading Antenna Gable Bam Gam Gam Gam Gam Gam Gam Gam Gam Gam G										
Channel: 128 Polarization: Vertical Mark Frequency MHz Reading dBm Antenna dB Cable dB Preamp dBm Level dBm Limit dBm Over limit 1 38.10 -68.25 21.67 6.54 30.81 -70.85 -13.00 -57.85 Peak 2 75.11 -64.72 20.82 6.82 30.72 -67.80 -13.00 -54.80 Peak 3 1647.81 -60.24 36.11 11.67 29.05 -41.51 -13.00 -28.51 Peak 4 2639.03 -63.75 39.46 14.44 26.59 -36.44 -13.00 -23.44 Peak 5 4118.49 -72.40 42.13 10.21 36.28 -56.34 -13.00 -43.34 Peak										
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MHz dBm dB dB dB dBm dBm limit 1 38.10 -68.25 21.67 6.54 30.81 -70.85 -13.00 -57.85 Peak 2 75.11 -64.72 20.82 6.82 30.72 -67.80 -13.00 -54.80 Peak 3 1647.81 -60.24 36.11 11.67 29.05 -41.51 -13.00 -28.51 Peak 4 2639.03 -63.75 39.46 14.44 26.59 -36.44 -13.00 -23.44 Peak 5 4118.49 -72.40 42.13 10.21 36.28 -56.34 -13.00 -43.34 Peak	Channel: 128					Polariz	zation: Vert	ical		
MHz dBm dB dB dB dBm dBm limit 1 38.10 -68.25 21.67 6.54 30.81 -70.85 -13.00 -57.85 Peak 2 75.11 -64.72 20.82 6.82 30.72 -67.80 -13.00 -54.80 Peak 3 1647.81 -60.24 36.11 11.67 29.05 -41.51 -13.00 -28.51 Peak 4 2639.03 -63.75 39.46 14.44 26.59 -36.44 -13.00 -23.44 Peak 5 4118.49 -72.40 42.13 10.21 36.28 -56.34 -13.00 -43.34 Peak	Mark	Frequency	Reading	Antenna	Cable	Preamo	Level	Limit	0ver	Remark
1 38.10 -68.25 21.67 6.54 30.81 -70.85 -13.00 -57.85 Peak 2 75.11 -64.72 20.82 6.82 30.72 -67.80 -13.00 -54.80 Peak 3 1647.81 -60.24 36.11 11.67 29.05 -41.51 -13.00 -28.51 Peak 4 2639.03 -63.75 39.46 14.44 26.59 -36.44 -13.00 -23.44 Peak 5 4118.49 -72.40 42.13 10.21 36.28 -56.34 -13.00 -43.34 Peak	1 101 10		_							
2 75.11 -64.72 20.82 6.82 30.72 -67.80 -13.00 -54.80 Peak 3 1647.81 -60.24 36.11 11.67 29.05 -41.51 -13.00 -28.51 Peak 4 2639.03 -63.75 39.46 14.44 26.59 -36.44 -13.00 -23.44 Peak 5 4118.49 -72.40 42.13 10.21 36.28 -56.34 -13.00 -43.34 Peak	1									Peak
3 1647.81 -60.24 36.11 11.67 29.05 -41.51 -13.00 -28.51 Peak 4 2639.03 -63.75 39.46 14.44 26.59 -36.44 -13.00 -23.44 Peak 5 4118.49 -72.40 42.13 10.21 36.28 -56.34 -13.00 -43.34 Peak										
4 2639.03 -63.75 39.46 14.44 26.59 -36.44 -13.00 -23.44 Peak 5 4118.49 -72.40 42.13 10.21 36.28 -56.34 -13.00 -43.34 Peak										
5 4118.49 -72.40 42.13 10.21 36.28 -56.34 -13.00 -43.34 Peak										

Remark:

- 1. The emission behaviour belongs to narrowband spurious emission.
- 2. The emission levels of not record in the report are very lower than the limit and not show in test report.

Report No.: CHTEW21030120 Page: 22 of 32 Issued: 2021-03-19

Channel: 810					Polariz	ation: Hori	zontal		
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	0ver	Remark
Mark	MHz	dBm	dB	dB	dB	dBm	dBm	limit	Remark
1	76.18	-67.93	16.81	6.83	30.85	-75.14	-13.00	-62.14	Peak
2	156.09	-73.46	19.14	7.30	30.51	-77.53	-13.00	-64.53	Peak
3	1378.22	-69.76	37.12	12.54	28.93	-49.03	-13.00	-36.03	Peak
4	2418.83	-69.11	39.72	13.32		-43.23	-13.00	-30.23	Peak
5	3820.45	-69.87	42.09	9.86	36.99	-54.91	-13.00	-41.91	Peak
6	6863.87	-76.01	47.03	13.51	34.18	-49.65	-13.00	-36.65	Peak
_	0003.07	-70.01	47.03	13.31				-30.03	reak
Channel: 810					Polariz	ation: Vert	ical		
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	0ver	Remark
Hark	MHz	dBm	dB	dB	dB	dBm	dBm	limit	Kelliur K
1	74.06	-64.00	20.06	6.81	30.86	-67.99	-13.00	-54.99	Peak
2	479.24	-77.05	26.59	8.57		-71.89	-13.00	-58.89	Peak
3		-70.27			28.93				
4	1382.77 2247.18		37.69	12.52 12.73	28.93	-48.99	-13.00		Peak
		-70.43	41.14			-44.75	-13.00		Peak
5	3820.45	-72.02	41.97	9.86	36.99	-57.18	-13.00		Peak
6	6873.83	-76.53	47.39	13.49	34.17	-49.82	-13.00	-36.82	Peak
Channel: 661					Polariz	ation: Hori	zontal		
Mark	E	Dan-44	Antenna	Cable	D	Level	Limit	0	Remark
Mark	Frequency	Reading			Preamp			Over	Kemark
	MHz	dBm	dB	dB	dB	dBm	dBm	limit	5 1
1	75.64	-67.65	16.64	6.82	30.85	-75.04	-13.00	-62.04	Peak
2	641.67	-80.04	29.16	9.08	29.84		-13.00		Peak
3	1713.13	-64.67	36.40	11.71	27.39	-43.95	-13.00		Peak
4	2478.01	-70.42	39.39	13.73	26.62	-43.92	-13.00	-30.92	Peak
5	3759.98	-72.60	42.23	9.82	37.12	-57.67	-13.00	-44.67	Peak
6	7444.58	-76.39	48.34	14.26	33.97	-47.76	-13.00	-34.76	Peak
Channel: 661					Polariz	ation: Verti	ical		
Marala		D44	^	C-l-1-	D	1	122.	0	Damanla
Mark	Frequency	Reading	Antenna	Cable	Preamp		Limit	0ver	Remark
	MHz	dBm	dB	dB	dB	dBm	dBm	limit	5 1
1	74.33	-64.17	20.25	6.82		-67.96	-13.00	-54.96	Peak
2	469.24	-74.37	25.90	8.54		-70.01	-13.00	-57.01	Peak
3	1375.20	-68.92	37.65	12.56	28.93	-47.64	-13.00	-34.64	Peak
4	2294.58	-69.40	40.56	12.86	27.90	-43.88	-13.00	-30.88	Peak
5	4931.35	-76.08	44.21	11.52	35.20	-55.55	-13.00	-42.55	Peak
6	6745.45	-76.17	47.27	13.74	34.37	-49.53	-13.00	-36.53	Peak
Channel: 512					Polariz	ation: Hori	zontal		
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
	MHz	dBm	dB	dB	dB	dBm	dBm	limit	
1	76.72	-68.34	16.99	6.83	30.84	-75.36	-13.00	-62.36	Peak
2	179.04	-71.57	22.38	7.42		-72.19	-13.00		Peak
3	2143.49	-70.16	40.46	12.45		-45.52	-13.00		Peak
4	2617.93	-67.43	38.93	14.47		-39.49	-13.00		Peak
5	5286.86		44.01	11.94	35.39		-13.00		Peak
6		-76.54	48.11	14.29	33.31		-13.00		Peak
Channel: 512					Polariz	ation: Verti	ical		
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
	MHz	dBm	dB	dB	dB	dBm	dBm	limit	
1	74.33	-63.87	20.25	6.82		-67.66	-13.00	-54.66	Peak
2	479.24	-77.68	26.59	8.57		-72.52	-13.00		Peak
3	2205.60	-70.51	41.66	12.61		-44.60	-13.00		Peak
4	2617.93	-67.67	39.29	14.47		-39.37	-13.00	-26.37	Peak
5	5091.22	-76.06	44.24	11.44		-55.84	-13.00		Peak
	JUJI.22	-70.00	77.24	TT:44	JJ.40	33.04	-13.00	-42.04	reak
6	7889.21	-76.12	48.13	14.57	33.32	-46 74	-13.00	-33.74	Peak

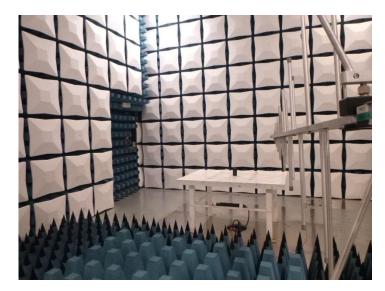
Remark:

- 1. The emission behaviour belongs to narrowband spurious emission.
- 2. The emission levels of not record in the report are very lower than the limit and not show in test report.

Report No.: CHTEW21030120 Page: 23 of 32 Issued: 2021-03-19

6. TEST SETUP PHOTOS OF THE EUT

Radiated emission:





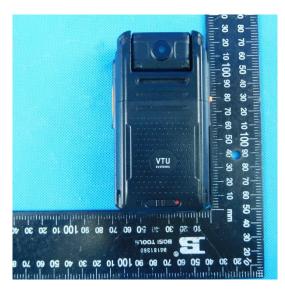
Report No.: CHTEW21030120 Page: 24 of 32 Issued: 2021-03-19

7. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

External photos of the EUT







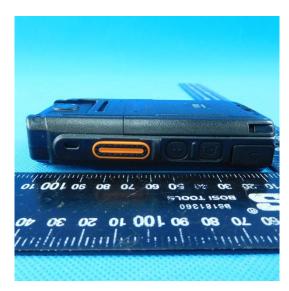
Report No.: CHTEW21030120 Page: 25 of 32 Issued: 2021-03-19

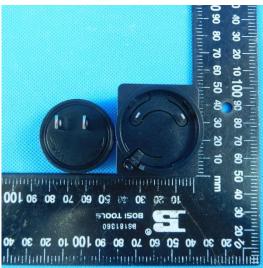






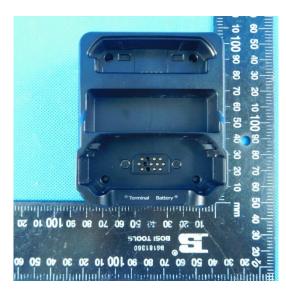
Report No.: CHTEW21030120 Page: 26 of 32 Issued: 2021-03-19







Report No.: CHTEW21030120 Page: 27 of 32 Issued: 2021-03-19







Report No.: CHTEW21030120 Page: 28 of 32 Issued: 2021-03-19



Report No.: CHTEW21030120 Page: 29 of 32 Issued: 2021-03-19

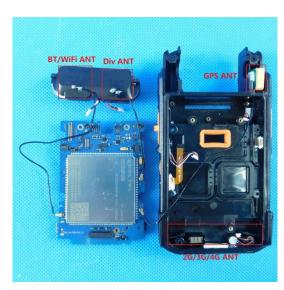
Internal photos of the EUT

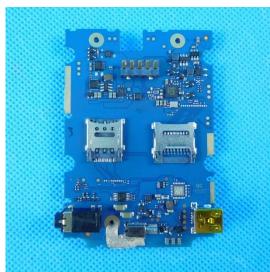


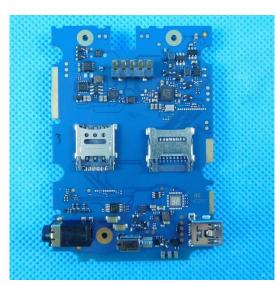




Report No.: CHTEW21030120 Page: 30 of 32 Issued: 2021-03-19



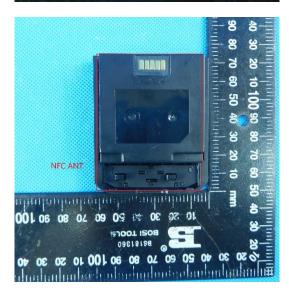




Report No.: CHTEW21030120 Page: 31 of 32 Issued: 2021-03-19







Report No.: CHTEW21030120 Page: 32 of 32 Issued: 2021-03-19

Li-ion Battery Pack

NFC

Model: VTBP-980A DC 3.8V 3500mAH 13.3WH

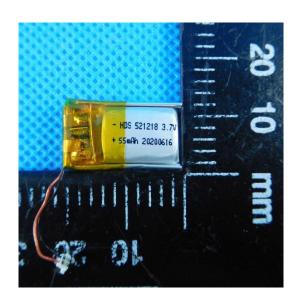
CE

Limited Charging Voltage: ____ 4.4V

CAUTION:

 DO NOT disassemble, crush, puncture, short external contacts or dispose of in fire or water.

S/N:898212070118 Made in China



8. APPENDIX REPORT