TEST REPORT

For FCC Part15B

Report No. CHTEW22110126

Report verification:

Project No. SHT2211001301EW

FCC ID.....: 2ASWW-PK4G

Applicant's name.....: XINCHUANGXIN INTERNATIONAL CO.,LTD

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

YUEN STREET MONGKOK KL

Product Name: Feature phone

Trade Mark CORN

Model No. Power K 4G

Listed Model(s) -

Standard: 47 CFR FCC Part 15 Subpart B

Date of receipt of test sample............ Nov. 02, 2022

Date of issue...... Nov. 22, 2022

Result...... Pass

Compiled by

(position+printed name+signature)..: File administrators

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(position+printed name+signature)..: Project Engineer Weiyang Xiang

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(position+printed name+signature)..: RF Manager Hans Hu

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

Gongming, Shenzhen, China

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The test report merely corresponds to the test sample.

Report No.: CHTEW22110126 Page: 2 of 16 Date of issue: 2022-11-22

Contents

<u>l.</u>	TEST STANDARDS AND REPORT VERSION	<u></u> ა
1.1.	Test Standards	3
1.2.	Report version information	3
<u>2.</u>	TEST DESCRIPTION	4
<u>3.</u>	SUMMARY	5
3.1.	Client Information	5
3.2.	Product Description	5
3.3.	Testing Laboratory Information	5
<u>4.</u>	TEST CONFIGURATION	6
4.1.	Descriptions of test mode	6
4.2.	Configuration of Tested System	6
4.3.	Support unit used in test configuration and system	7
4.4.	Environmental conditions	7
4.5.	Statement of the measurement uncertainty	7
4.6.	Equipments Used during the Test	8
<u>5.</u>	TEST CONDITIONS AND RESULTS	9
5.1.	Conducted Emissions Test	9
5.1. 5.2.	Radiated Emissions Test	11
V. <u>Z</u> .	Nadiated Emissions 165t	
<u>6.</u>	TEST SETUP PHOTOS OF THE EUT	15
<u>7.</u>	EXTERNAL AND INTERNAL PHOTOS OF THE EUT	16

Report No.: CHTEW22110126 Page: 3 of 16 Date of issue: 2022-11-22

1. TEST STANDARDS AND REPORT VERSION

1.1. Test Standards

The tests were performed according to following standards:

47 CFR FCC Part 15 Subpart B - Unintentional Radiators

ANSI C63.4: 2014 – American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40GHz

1.2. Report version information

Revision No.	Date of issue	Description		
N/A	2022-11-22	Original		

Report No.: CHTEW22110126 Page: 4 of 16 Date of issue: 2022-11-22

2. TEST DESCRIPTION

Section	Test Item Section in CFR 47		Result #1	Test Engineer	
5.1	Conducted Emissions 15.107(a)		PASS	Dongyang Wu	
5.2	Radiated Emissions	15.109(a)	PASS	Quanhai Deng	

Note:

#1: The test result does not include measurement uncertainty value

Report No.: CHTEW22110126 Page: 5 of 16 Date of issue: 2022-11-22

3. **SUMMARY**

3.1. Client Information

Applicant:	XINCHUANGXIN INTERNATIONAL CO.,LTD		
Address:	ROOM 605 6/F, FA YUEN COMMERCIAL BUILDING, 75-77 FA YUEN STREET MONGKOK KL		
Manufacturer:	Shenzhen Chiteng Technology Co.,LTD		
Address:	Second Floor,Area A, Building 4, Huiye Technology Workshop, Guanguang Road, Tangjia Community, Gongming Street, Guangming New District, Shenzhen, Guangdong		

3.2. Product Description

Main unit information:				
Product Name:	Feature phone			
Trade Mark:	CORN			
Model No.:	Power K 4G			
Listed Model(s):	-			
Power supply:	DC3.7V from battery			
Hardware version:	ZS621T_MB_V1.0			
Software version:	ZS583T_240320_A24408_PowerK4G_CORN_EnFrPoSp_V01_ 20221120			
Accessory unit information:				
Battery information:	3.7Vdc, 4000mAh			
	Model:FSF-02			
Adapter information:	Input: AC100-240V, 50/60Hz,0.15 A			
	Output: 5.0Vdc, 500mA			

3.3. 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			
	Tel: 86-755-26715499			
Connect information:	E-mail: cs@szhtw.com.cn			
	http://www.szhtw.com.cn			
Qualifications	Туре	Accreditation Number		
Qualifications	FCC	762235		

Report No.: CHTEW22110126 Page: 6 of 16 Date of issue: 2022-11-22

4. TEST CONFIGURATION

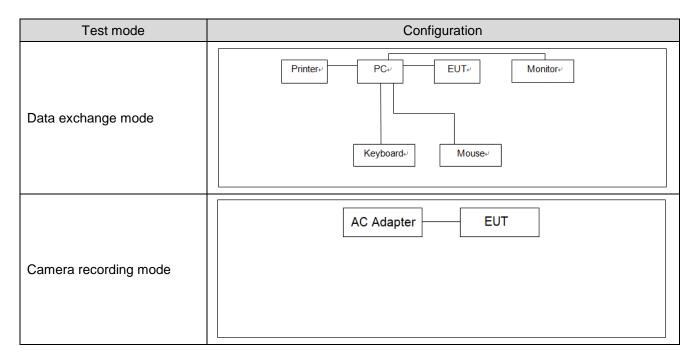
4.1. Descriptions of test mode

Test mode	Description		
Camera recording mode	Keep the EUT in Camera recording status		
Video Playing mode	Keep the EUT in Video Playing status		
Data exchange mode	Keep the EUT in Data exchange with PC status		

Pre-scan above all test mode, found below test mode which it was worse case mode, so only show the test data for worse case mode on the test report

Test Item	Test mode for worse case		
Conducted Emissions	Camera recording		
Radiated Emissions	Data exchange		

4.2. Configuration of Tested System



Report No.: CHTEW22110126 Page: 7 of 16 Date of issue: 2022-11-22

4.3. 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.

Item	Equipment	Manufacturer	Model No.	FCC ID / FCC SDoC	Data Cable	Power Cord
1	PC	DELL	OptiPlex 3020 MT	FCC SDoC	N/A	Unshielded 1.8m
2	Monitor	DELL	E1912Hf	FCC SDoC	N/A	Unshielded 1.8m
3	Keyboard	DELL	SK8115	FCC SDoC	Unshielded, 1.5m	N/A
4	Mouse	DELL	MS111-T	FCC SDoC	Unshielded, 1.5m	N/A
5	Printer	EPSON	L101	FCC SDoC	N/A	Unshielded 1.8m

4.4. Environmental conditions

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

Temperature:	15~35°C
Relative Humidity:	30~60 %
Air Pressure:	950~1050mba

4.5. Statement of the measurement uncertainty

No.	Test Items	Measurement Uncertainty
1	AC Conducted Emission	3.21dB
2	Radiated Emission	4.54dB for 30MHz-1GHz
2	Naulaleu Elliissioii	5.10dB for above 1GHz

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

Report No.: CHTEW22110126 Page: 8 of 16 Date of issue: 2022-11-22

4.6. Equipments 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	2022/08/30	2023/08/29
•	Artificial Mains	SCHWARZBECK	HTWE0113	NNLK 8121	573	2022/08/29	2023/08/28
•	Pulse Limiter	R&S	HTWE0193	ESH3-Z2	101447	2022/08/29	2023/08/28
•	RF Connection Cable	HUBER+SUHNER	HTWE0113-02	ENVIROFLE X_142	EF-NM- BNCM-2M	2022/09/17	2023/09/16
•	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A

•	Radiated Emission-6th test site											
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)					
•	Semi-Anechoic Chamber	Albatross projects	HTWE0127	SAC-3m-02	C11121	2018/09/30	2023/09/29					
•	EMI Test Receiver	R&S	HTWE0099	ESCI	100900	2022/08/30	2023/08/29					
•	Ultra-Broadband Antenna	SCHWARZBEC K	HTWE0119	VULB9163	546	2020/04/28	2023/04/27					
•	Pre-Amplifer	SCHWARZBEC K	HTWE0295	BBV 9742	N/A	2022/11/04	2023/11/03					
•	RF Connection Cable	HUBER+SUHN ER	HTWE0062-01	N/A	N/A	2022/02/25	2023/02/24					
•	RF Connection Cable	HUBER+SUHN ER	HTWE0062-02	SUCOFLEX10 4	501184/4	2022/02/25	2023/02/24					
•	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A					

•	Radiated emission-7th 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	HTWE0122	SAC-3m-01	C11121	2018/09/27	2023/09/26					
•	Spectrum Analyzer	R&S	HTWE0098	FSP40 100597		2022/08/25	2023/08/24					
•	Horn Antenna	SCHWARZBE CK	HTWE0126	9120D	1011	2020/04/01	2023/03/31					
•	Broadband Pre- amplifier	SCHWARZBE CK	HTWE0201	BBV 9718	9718-248	2022/02/28	2023/02/27					
•	RF Connection Cable	HUBER+SUH NER	HTWE0126-01	RE-7-FH	N/A	2022/03/04	2023/03/03					
•	Test Software	Audix	N/A	E3	N/A	N/A	N/A					

Report No.: CHTEW22110126 Page: 9 of 16 Date of issue: 2022-11-22

5. TEST CONDITIONS AND RESULTS

5.1. Conducted Emissions Test

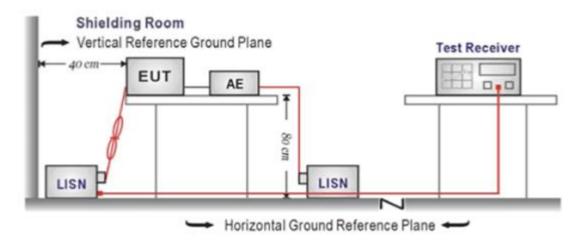
LIMIT

FCC CFR Title 47 Part 15 Subpart B Section 15.107:

Frequency range (MHz)	Limit (dBuV)				
r requericy rarige (wir iz)	Quasi-peak	Average			
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
5-30	60	50			

^{*} Decreases with the logarithm of the frequency.

TEST CONFIGURATION



TEST PROCEDURE

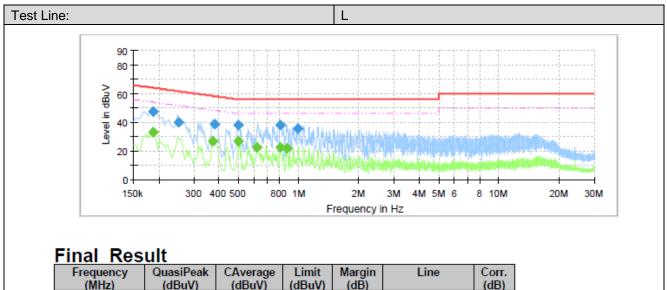
- 1. The EUT was setup according to ANSI C63.4:2014
- 2. The EUT was placed on a plat form of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
- 3. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50ohm / 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:

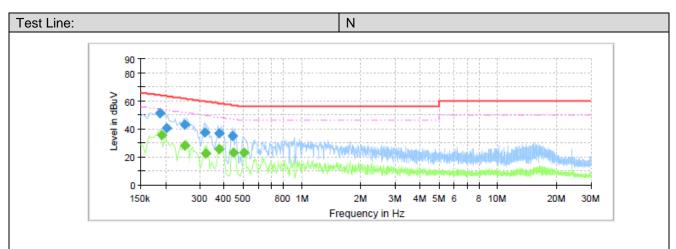
Please refer to the clause 3.3

TEST RESULTS

 Report No.: CHTEW22110126 Page: 10 of 16 Date of issue: 2022-11-22



(MHz) (dBuV) (dBuV) (dBuV) (dB) (dB) 0.187500 47.50 16.65 L1 64.15 10.0 0.187500 33.16 20.99 L1 54.15 10.0 39.88 0.251500 61.71 21.83 L1 10.0 0.371500 27.07 10.0 48.47 21.40 L1 0.379500 38.52 58.29 19.77 L1 10.0 46.01 0.499500 26.82 19.19 L1 10.0 0.499500 37.82 56.01 18.19 L1 10.0 23.38 L1 0.619500 22.62 10.0 46.00 0.807500 22.66 46.00 23.34 10.0 37.95 0.811500 56.00 18.05 L1 10.0 0.875500 21.84 46.00 24.16 L1 10.0 35.51 20.49 L1 10.0 0.991500 56.00



Final Result

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Frequency	QuasiPeak	CAverage	Limit	Margin	Line	Corr.				
(MHz)	(dBuV)	(dBuV)	(dBuV)	(dB)		(dB)				
0.187500	50.94		64.15	13.21	N	10.0				
0.191500		35.41	53.97	18.56	N	10.0				
0.203500	40.47	-	63.47	23.00	N	10.0				
0.251500	43.42	-	61.71	18.29	N	10.0				
0.251500		28.26	51.71	23.45	N	10.0				
0.319500	37.41	-	59.72	22.31	N	10.0				
0.323500		22.70	49.62	26.92	N	10.0				
0.375500		25.80	48.38	22.58	N	10.0				
0.375500	36.59		58.38	21.79	N	10.0				
0.439500	34.94	-	57.07	22.13	N	10.0				
0.447500		23.20	46.92	23.72	N	10.0				
0.503500		23.03	46.00	22.97	N	10.0				
					,					

Report No.: CHTEW22110126 Page: 11 of 16 Date of issue: 2022-11-22

5.2. Radiated Emissions Test

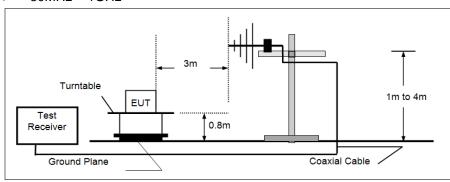
LIMIT

FCC CFR Title 47 Part 15 Subpart B Section 15.109

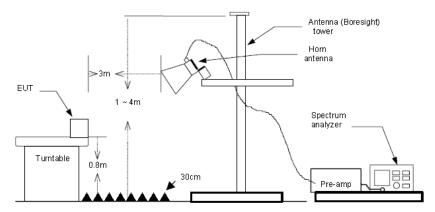
Frequency	Limit (dBuV/m @3m)	Value
30MHz-88MHz	40.00	Quasi-peak
88MHz-216MHz	43.50	Quasi-peak
216MHz-960MHz	46.00	Quasi-peak
960MHz-1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
ABOVE TOTIZ	74.00	Peak

TEST CONFIGURATION

➢ 30MHz ~ 1GHz



Above 1GHz



TEST PROCEDURE

- 1. The EUT was tested according to ANSI C63.4:2014.
- 2. The EUT is placed on a turn table which is 0.8 meter above ground.
- 3. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 4. The EUT waspositioned such that the distance from antenna to the EUT was 3 meters.
- 5. 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.
- 6. Use the following spectrum analyzer settings
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Below 1GHz,
 - RBW=120KHz, VBW=300KHz, 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, theemission measurement will be repeated using the quasi-peak detector and reported.
 - (3) From 1GHz to 5th harmonic, RBW=1MHz, VBW=3MHz

Report No.: CHTEW22110126 Page: 12 of 16 Date of issue: 2022-11-22

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

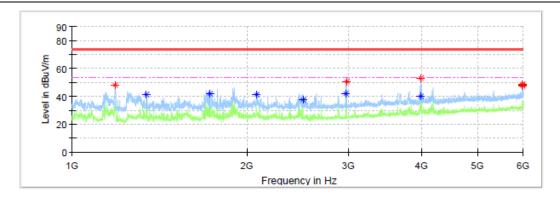
Note: Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor The emission levels of frequency above 6GHz are very lower than limit and not show in test report.

Report No.: CHTEW22110126 Page: 13 of 16 Date of issue: 2022-11-22

Polarization: Horizontal 80 70 60 Level in dBuV/m 40 30 20 10-0 30M 50 60 80 100M 400 500 800 200 300 Frequency in Hz

Final Result

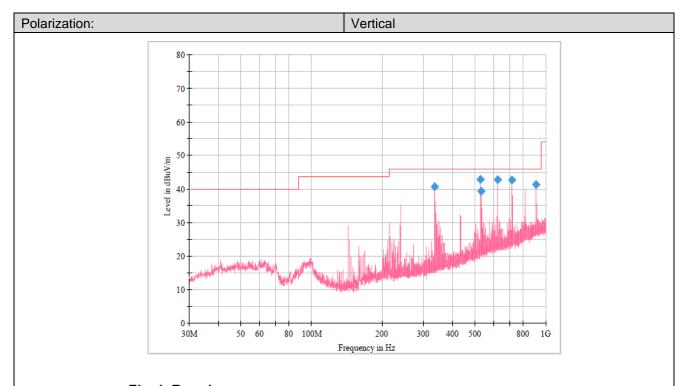
r mai_rtoourt										
Frequency	MaxPeak	Limit	Margin	Height	Pol	Azimuth	Corr.			
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(cm)		(deg)	(dB/m)			
335.428750	42.99	46.00	3.01	100.0	Н	269.0	-6.4			
337.732500	38.68	46.00	7.32	100.0	Н	269.0	-6.4			
527.367500	42.77	46.00	3.23	100.0	Н	322.0	-1.2			
719.427500	42.09	46.00	3.91	100.0	Н	122.0	2.4			
816.670000	42.88	46.00	3.12	100.0	Н	240.0	4.5			
911.487500	42.07	46.00	3.93	100.0	Н	115.0	6.4			



Critical Freqs

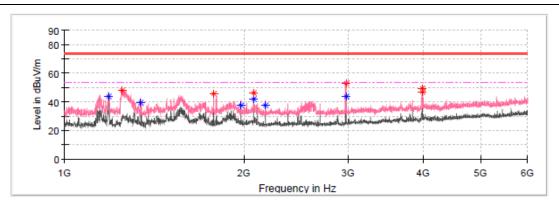
Citical III	cqs							
Frequency	MaxPeak	Average	Limit	Margin	Height	Pol	Azimuth	Corr.
(MHz)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)		(deg)	(dB/m)
1728.125000	.	41.95	54.00	12.05	150.0	Н	38.0	-9.7
2496.250000	-	37.41	54.00	16.59	150.0	Н	38.0	-6.9
2968.125000	-	42.12	54.00	11.88	150.0	Н	52.0	-5.3
2974.375000	50.47		74.00	23.53	150.0	Н	52.0	-5.2
1343.750000		41.23	54.00	12.77	150.0	Н	72.0	-8.0
3998.750000	53.05		74.00	20.95	150.0	Н	224.0	-1.7
3998.750000	-	39.91	54.00	14.09	150.0	Н	224.0	-1.7
5972.500000	48.70		74.00	25.30	150.0	Н	224.0	5.5
5973.750000	47.81		74.00	26.19	150.0	Н	224.0	5.5
5987.500000	47.84		74.00	26.16	150.0	Н	224.0	5.5
1186.875000	48.18		74.00	25.82	150.0	Н	332.0	-9.2
2076.875000		41.26	54.00	12.74	150.0	Н	345.0	-7.6

Report No.: CHTEW22110126 Page: 14 of 16 Date of issue: 2022-11-22



Final_Result

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
335.428750	40.62	46.00	5.38	100.0	٧	105.0	-6.4
527.367500	42.96	46.00	3.04	100.0	٧	123.0	-1.2
529.792500	39.18	46.00	6.82	100.0	٧	28.0	-1.2
624.610000	42.75	46.00	3.25	100.0	٧	152.0	0.9
719.427500	42.58	46.00	3.42	100.0	٧	86.0	2.4
911.487500	41.25	46.00	4.75	100.0	٧	145.0	6.4



Critical Freqs

Frequency	MaxPeak	Average	Limit	Margin	Height	Pol	Azimuth	Corr.
(MHz)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)		(deg)	(dB/m)
1186.875000		43.49	54.00	10.51	150.0	V	0.0	-9.2
2176.250000	-	37.42	54.00	16.58	150.0	V	0.0	-6.6
1978.125000		37.75	54.00	16.25	150.0	V	2.0	-8.4
1780.000000	45.77		74.00	28.24	150.0	V	13.0	-9.2
2076.875000	46.13		74.00	27.87	150.0	V	13.0	-7.6
2076.875000		41.66	54.00	12.34	150.0	V	13.0	-7.6
3995.000000	49.46		74.00	24.54	150.0	V	13.0	-1.7
3985.000000	46.98		74.00	27.02	150.0	V	152.0	-1.8
2975.625000	52.83		74.00	21.17	150.0	V	309.0	-5.2
1343.750000	-	39.56	54.00	14.44	150.0	V	324.0	-8.0
1250.000000	48.11		74.00	25.89	150.0	V	338.0	-8.7
2975.000000		43.58	54.00	10.42	150.0	V	352.0	-5.2
1250.000000	48.11		74.00	25.89	150.0	V	338.0	

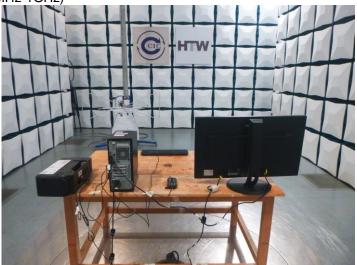
Report No.: CHTEW22110126 Page: 15 of 16 Date of issue: 2022-11-22

6. TEST SETUP PHOTOS OF THE EUT

Conducted Emissions (AC Mains)



Radiated Emissions (30MHz-1GHz)



Radiated Emissions (Above 1GHz)



Report No.: CHTEW22110126 Page: 16 of 16 Date of issue: 2022-11-22

7. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

Refer to the test report No.: CHTEW22110122

-----End of Report-----