




# TEST REPORT

Report No. ....: CHTEW22010111 Report verification : 

Project No. ....: SHT2112096501EW

FCC ID.....: 2ASWW-MT202

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

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

Test item description .....: Feature Phone

Trade Mark .....: CORN

Model/Type reference.....: Satelital Q

Listed Model(s) .....: -

Standard .....: 47 CFR FCC Part 15 Subpart B

Date of receipt of test sample.....: Dec. 30, 2021

Date of testing.....: Jan. 01, 2021- Jan. 19, 2021

Date of issue.....: Jan. 20, 2021

Result.....: Pass

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

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*The test report merely corresponds to the test sample.*

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## 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	2022-01-20	Original

## 2. TEST DESCRIPTION

Test Item	Section in CFR 47	Result	Test Engineer
Conducted Emissions	15.107(a)	PASS	Jiongsheng Feng
Radiated Emissions	15.109(a)	PASS	Pan Xie

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

### 3. SUMMARY

#### 3.1. Client Information

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

#### 3.2. Product Description

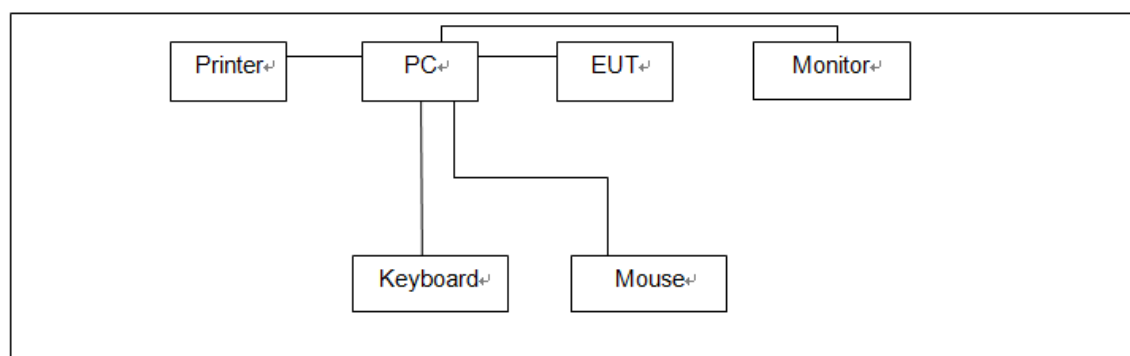
Name of EUT:	Feature Phone
Trade Mark:	CORN
Model No.:	Satelital Q
Listed Model(s)	-
Power supply:	DC 3.7V from Battery
Battery Information:	DC 3.7V,4000mAh
Hardware version:	MT202_MB_V1.0
Software version:	MT202_A24236M_SATELITAL_Q_CORN_BOX_V02

#### 3.3. EUT operation mode

Test mode	Describe
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 all of above modes. Only show camera recording mode for conducted emission and radiated emission, which is the worst case on the report.

#### 3.4. Configuration of Tested System



**3.5. Support unit used in test configuration**

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

## 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: <a href="mailto:cs@szhtw.com.cn">cs@szhtw.com.cn</a> <a href="http://www.szhtw.com.cn">http://www.szhtw.com.cn</a>	
Qualifications	Type	Accreditation Number
	FCC	762235

### 4.2. 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

### 4.3. 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 CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ 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	Range	Measurement Uncertainty	Notes
Radiated Emissions	30~1000MHz	4.36 dB	(1)
Radiated Emissions	1~18GHz	5.10 dB	(1)
Conducted Disturbance	0.15~30MHz	3.00 dB	(1)

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

#### 4.4. 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	2021/9/14	2022/9/13
●	Artificial Mains	SCHWARZBECK	HTWE0113	NNLK 8121	573	2021/9/17	2022/9/16
●	Pulse Limiter	R&S	HTWE0033	ESH3-Z2	100499	2021/9/13	2022/9/12
●	RF Connection Cable	HUBER+SUHNER	HTWE0113-02	ENVIROFLEX_142	EF-NM-BNCM-2M	2021/9/17	2022/9/16
●	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	2022/09/29
●	EMI Test Receiver	R&S	HTWE0099	ESCI	100900	2021/9/14	2022/9/13
●	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0119	VULB9163	546	2020/04/28	2023/04/27
●	Pre-Amplifier	SCHWARZBECK	HTWE0295	BBV 9742	N/A	2021/11/5	2022/11/4
●	RF Connection Cable	HUBER+SUHNER	HTWE0062-01	N/A	N/A	2021/02/26	2022/02/25
●	RF Connection Cable	HUBER+SUHNER	HTWE0062-02	SUCOFLEX104	501184/4	2021/02/26	2022/02/25
●	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A

● Radiated 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	N/A	2018/09/27	2022/09/26
●	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2021/9/13	2022/9/12
●	Horn Antenna	SCHWARZBECK	HTWE0126	9120D	1011	2020/04/01	2023/03/31
●	Broadband Pre-amplifier	SCHWARZBECK	HTWE0201	BBV 9718	9718-248	2021/03/05	2022/03/04
●	RF Connection Cable	HUBER+SUHNER	HTWE0121-01	RE-7-FH	N/A	2021/03/05	2022/03/04
●	Test Software	Audix	N/A	E3	N/A	N/A	N/A



## 5. TEST CONDITIONS AND RESULTS

### 5.1. Conducted Emissions Test

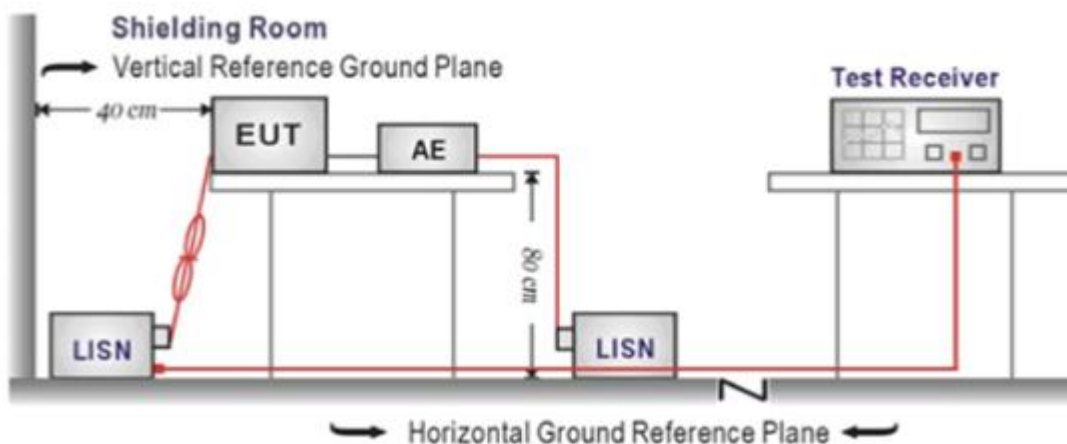
#### LIMIT

FCC CFR Title 47 Part 15 Subpart B Section 15.107:

Frequency range (MHz)	Limit (dBuV)	
	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:

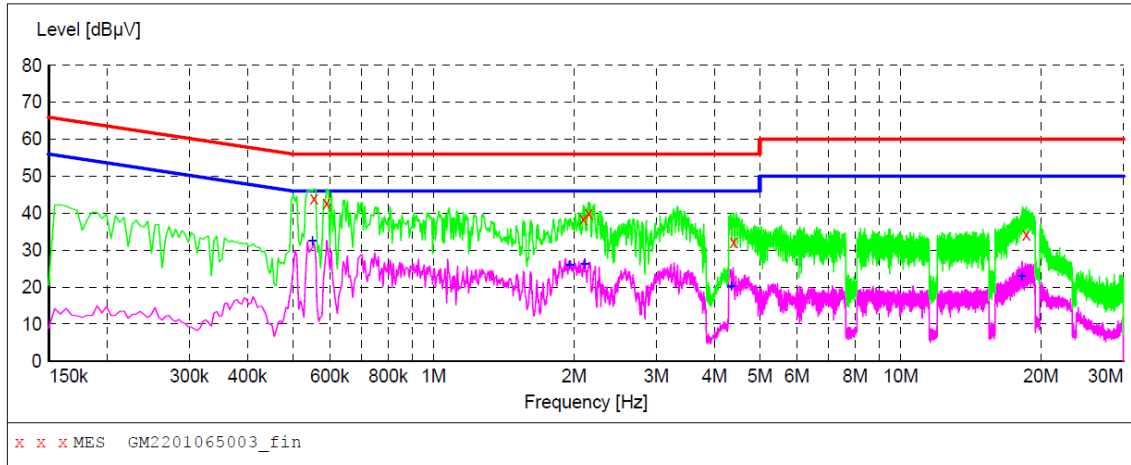
Please refer to the clause 3.3

#### TEST RESULTS

☒ Passed ☐ Not Applicable

Test Line:

L

**MEASUREMENT RESULT: "GM2201065003\_fin"**

1/6/2022 10:25AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.555000	44.00	10.1	56	12.0	QP	L1	GND
0.591000	42.70	10.1	56	13.3	QP	L1	GND
2.094000	38.60	10.1	56	17.4	QP	L1	GND
2.152500	40.00	10.1	56	16.0	QP	L1	GND
4.402500	32.30	10.3	56	23.7	QP	L1	GND
18.609000	34.30	10.7	60	25.7	QP	L1	GND

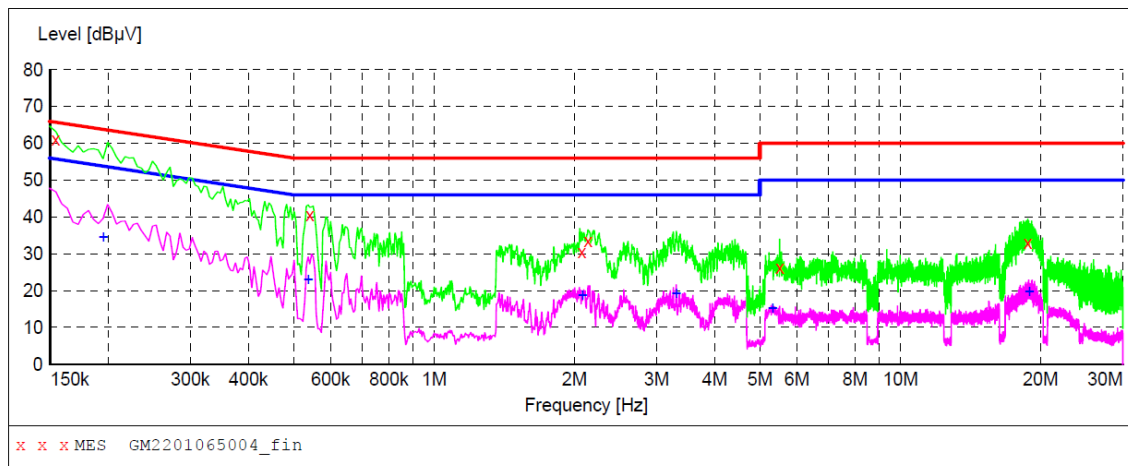
**MEASUREMENT RESULT: "GM2201065003\_fin2"**

1/6/2022 10:25AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.550500	32.40	10.1	46	13.6	AV	L1	GND
1.954500	26.00	10.1	46	20.0	AV	L1	GND
2.107500	26.10	10.1	46	19.9	AV	L1	GND
4.344000	20.10	10.3	46	25.9	AV	L1	GND
18.163500	23.10	10.7	50	26.9	AV	L1	GND

Test Line:

N

**MEASUREMENT RESULT: "GM2201065004\_fin"**

1/6/2022 10:34AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.154500	61.10	10.1	66	4.7	QP	N	GND
0.541500	40.40	10.1	56	15.6	QP	N	GND
2.076000	30.50	10.1	56	25.5	QP	N	GND
2.139000	33.40	10.1	56	22.6	QP	N	GND
5.514000	26.10	10.3	60	33.9	QP	N	GND
18.784500	32.90	10.7	60	27.1	QP	N	GND

**MEASUREMENT RESULT: "GM2201065004\_fin2"**

1/6/2022 10:34AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.195000	34.40	10.1	54	19.4	AV	N	GND
0.537000	23.00	10.1	46	23.0	AV	N	GND
2.080500	18.60	10.1	46	27.4	AV	N	GND
3.304500	19.10	10.2	46	26.9	AV	N	GND
5.316000	15.30	10.3	50	34.7	AV	N	GND
18.883500	19.60	10.7	50	30.4	AV	N	GND

## 5.2. Radiated Emissions Test

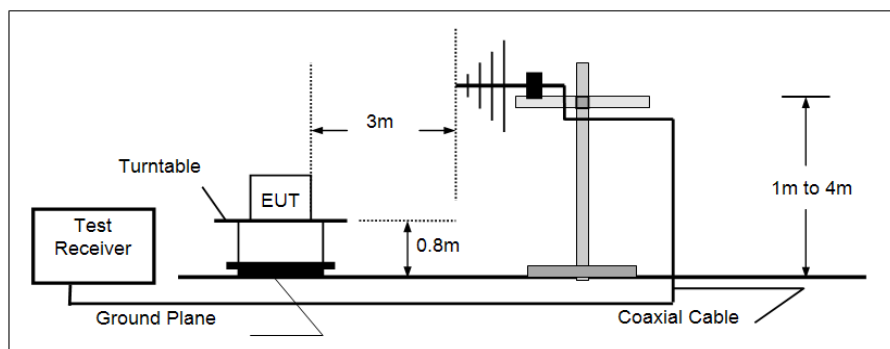
### LIMIT

#### FCC CFR Title 47 Part 15 Subpart B Section 15.109

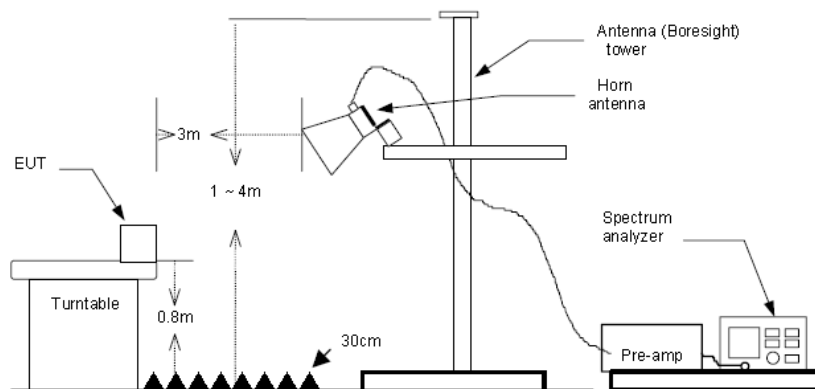
Frequency	Limit (dBuV/m @3m)	Value
30MHz-88MHz	40.00	Quasi-peak
88MHz-216MHz	43.50	Quasi-peak
216MHz-960MHz	46.00	Quasi-peak
960MHz-1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
	74.00	Peak

### 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 was positioned 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, the emission measurement will be repeated using the quasi-peak detector and reported.
  - (3) From 1GHz to 5th harmonic, RBW=1MHz, VBW=3MHz

**TEST MODE:**

Please refer to the clause 3.3

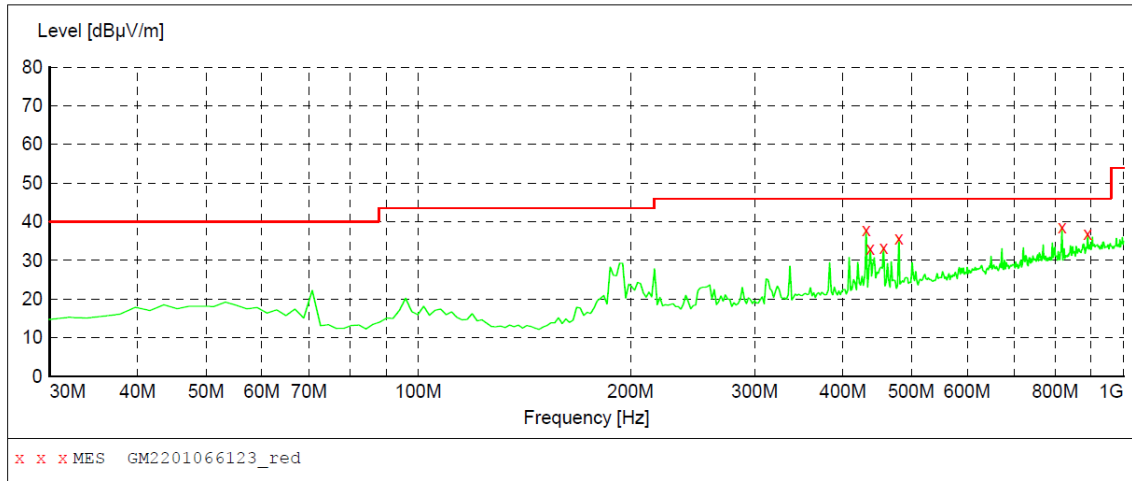
**TEST RESULTS**

☒ **Passed**      ☐ **Not Applicable**

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.

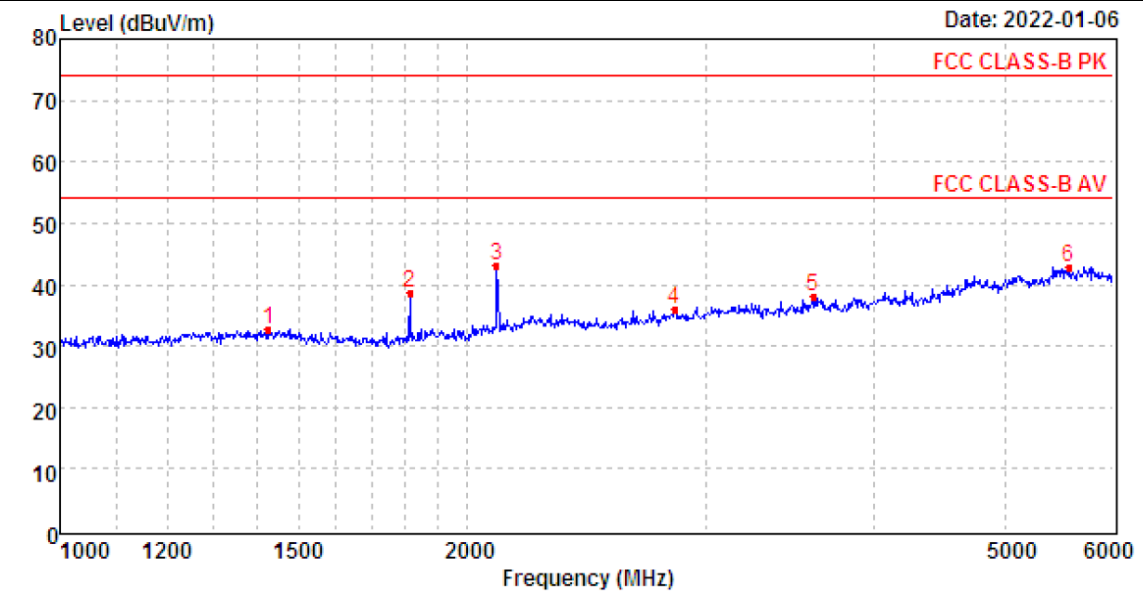
Polarization:

Horizontal

**MEASUREMENT RESULT: "GM2201066123\_red"**

1/6/2022 10:27PM

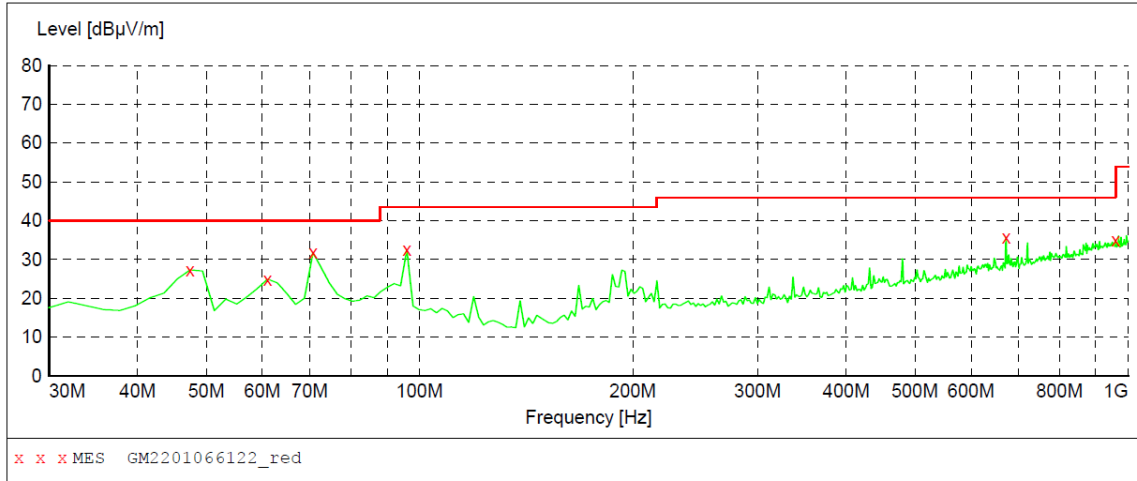
Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
431.580000	37.80	-3.4	46.0	8.2	QP	100.0	0.00	HORIZONTAL
437.400000	33.00	-3.4	46.0	13.0	QP	100.0	298.00	HORIZONTAL
456.800000	33.30	-3.2	46.0	12.7	QP	100.0	345.00	HORIZONTAL
480.080000	35.80	-2.6	46.0	10.2	QP	100.0	277.00	HORIZONTAL
817.640000	38.60	5.0	46.0	7.4	QP	100.0	116.00	HORIZONTAL
889.420000	36.90	6.5	46.0	9.1	QP	100.0	310.00	HORIZONTAL



Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1425.85	38.93	26.10	4.21	36.63	32.61	74.00	-41.39	Peak
2	1812.79	45.38	25.45	4.77	37.09	38.51	74.00	-35.49	Peak
3	2103.45	48.43	27.14	5.16	37.48	43.25	74.00	-30.75	Peak
4	2847.35	38.90	28.59	6.08	37.51	36.06	74.00	-37.94	Peak
5	3600.63	38.72	29.40	6.91	37.01	38.02	74.00	-35.98	Peak
6	5565.05	34.63	31.83	9.40	32.96	42.90	74.00	-31.10	Peak

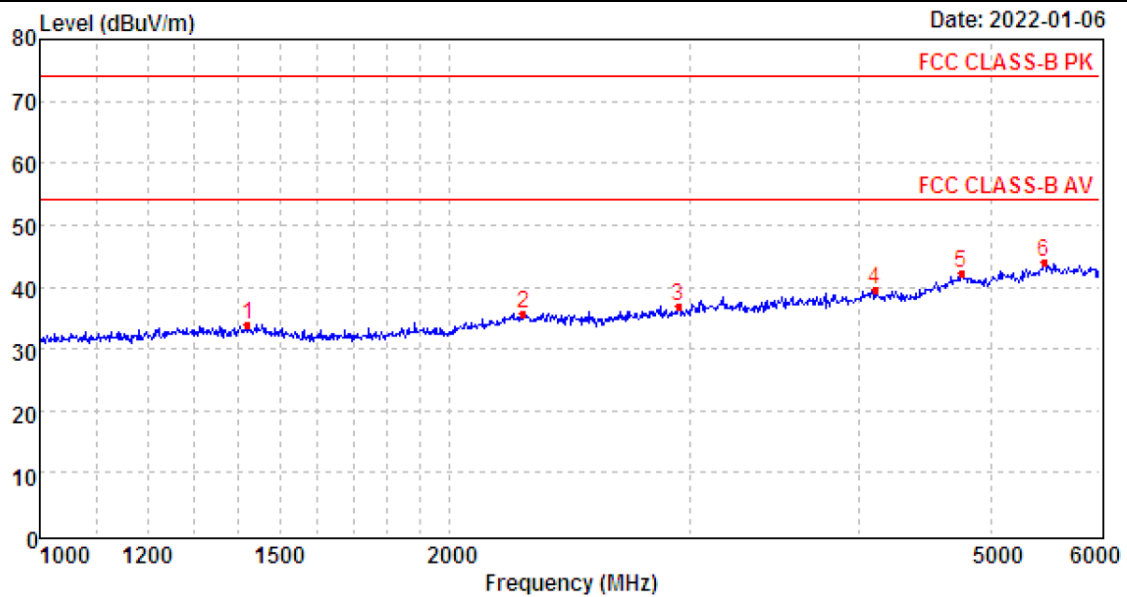
Polarization:

Vertical

**MEASUREMENT RESULT: "GM2201066122\_red"**

1/6/2022 10:25PM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
47.460000	27.30	-8.8	40.0	12.7	QP	100.0	311.00	VERTICAL
61.040000	24.90	-10.2	40.0	15.1	QP	100.0	0.00	VERTICAL
70.740000	31.80	-13.3	40.0	8.2	QP	100.0	66.00	VERTICAL
95.960000	32.50	-11.3	43.5	11.0	QP	100.0	142.00	VERTICAL
672.140000	35.70	2.0	46.0	10.3	QP	100.0	358.00	VERTICAL
959.260000	34.90	7.5	46.0	11.1	QP	100.0	109.00	VERTICAL

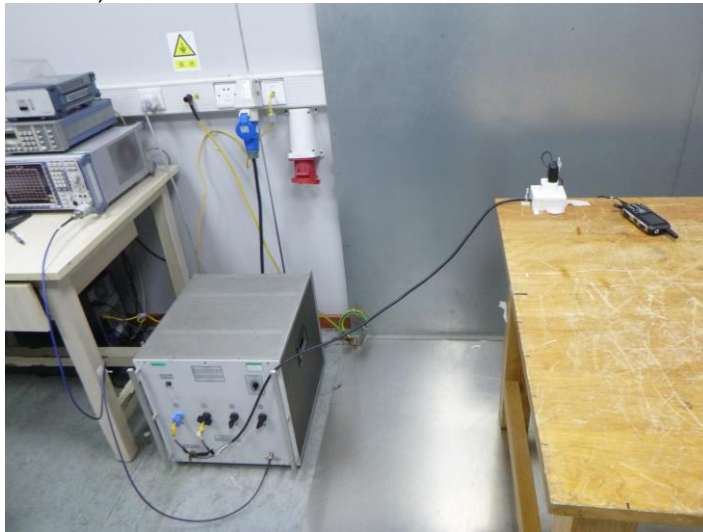


Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1420.75	40.29	26.10	4.20	36.64	33.95	74.00	-40.05	Peak
2	2263.79	39.52	28.07	5.38	37.41	35.56	74.00	-38.44	Peak
3	2945.95	39.27	28.69	6.16	37.18	36.94	74.00	-37.06	Peak
4	4103.77	38.39	30.00	7.48	36.18	39.69	74.00	-34.31	Peak
5	4753.26	36.65	31.40	8.33	34.16	42.22	74.00	-31.78	Peak
6	5466.22	35.51	31.77	9.35	32.53	44.10	74.00	-29.90	Peak



## 6. TEST SETUP PHOTOS OF THE EUT

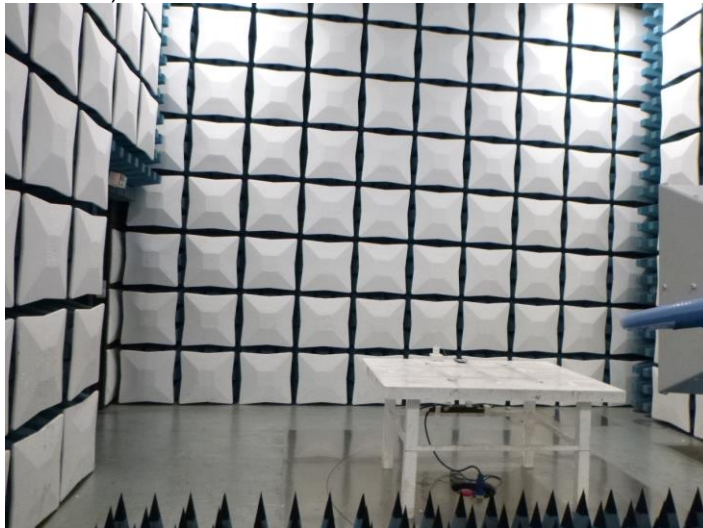
### Conducted Emissions (AC Mains)



### Radiated Emissions (30MHz-1GHz)



### Radiated Emissions (Above 1GHz)





## **7. EXTERNAL AND INTERNAL PHOTOS OF THE EUT**

Reference to the test report No.: CHTEW22010109

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