




# TEST REPORT

Report Reference No. .... : CHTEW20100019 Report verification: 

Project No. .... : SHT2009042403EW

FCC ID..... : 2ASWW-CE202

Applicant's name..... : 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, Guangguang Road, Tangjia Community, Gongming Street, Guangming New District, Shenzhen, Guangdong

Test item description ..... : Feature Phone

Trade Mark ..... : CORN

Model/Type reference..... : Power K

Listed Model(s) ..... : Power K mini, Power K+, Power K II, Power K Pro

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

Date of receipt of test sample..... : Sep. 18, 2020

Date of testing..... : Sep. 19, 2020- Oct. 09, 2020

Date of issue..... : Oct. 10, 2020

Result..... : Pass

Compiled by

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

*Silvia Li*

Supervised by

( position+printed name+signature)... : Project Engineer Aaron Fang

*Aaron.Fang*

Approved by

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

*Hans Hu*

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

Address..... : 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China

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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	2020-10-10	Original

## 2. TEST DESCRIPTION

Test Item	Section in CFR 47	Result	Test Engineer
Conducted Emissions	15.107(a)	PASS	Jianquan Wu
Radiated Emissions	15.109(a)	PASS	Jian Li

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

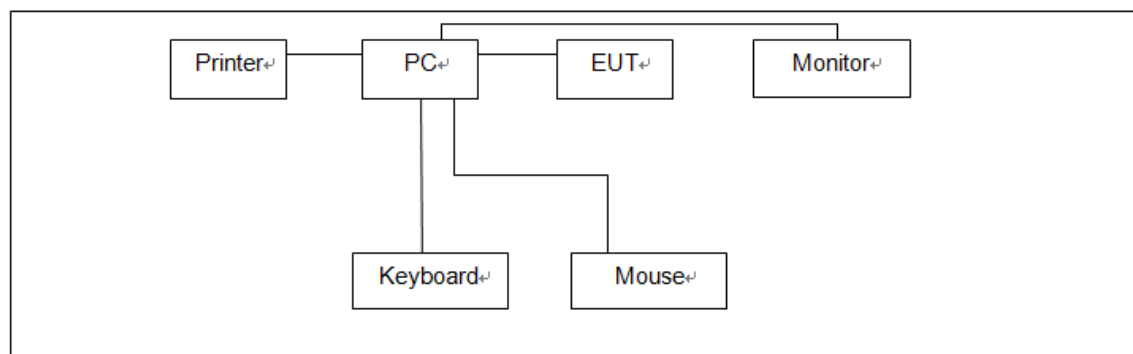
Name of EUT:	Feature Phone
Trade Mark:	CORN
Model No.:	Power K
Listed Model(s)	Power K mini, Power K+, Power K II, Power K Pro
Power supply:	DC3.7V
Adapter information:	Model:FSF-02 Input: AC100-240V, 50/60Hz,0.15A Output: 5.0Vdc,500mA

#### 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 data exchange mode for 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. Address of the test laboratory**

Laboratory: Shenzhen Huatongwei International Inspection Co., Ltd.

Address: 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China

Phone: 86-755-26748019 Fax: 86-755-26748089

### **4.2. Test Facility**

The test facility is recognized, certified, or accredited by the following organizations:

#### **CNAS-Lab Code: L1225**

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

#### **A2LA-Lab Cert. No. 3902.01**

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

#### **FCC-Registration No.: 762235**

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 762235.

#### **IC-Registration No.: 5377A**

Two 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377A.

#### **ACA**

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

### 4.3. 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

### 4.4. 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 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	4.90 dB	(1)
Radiated Emissions	1~18GHz	4.96 dB	(1)
Conducted Disturbance	0.15~30MHz	3.02 dB	(1)

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



#### 4.5. 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	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

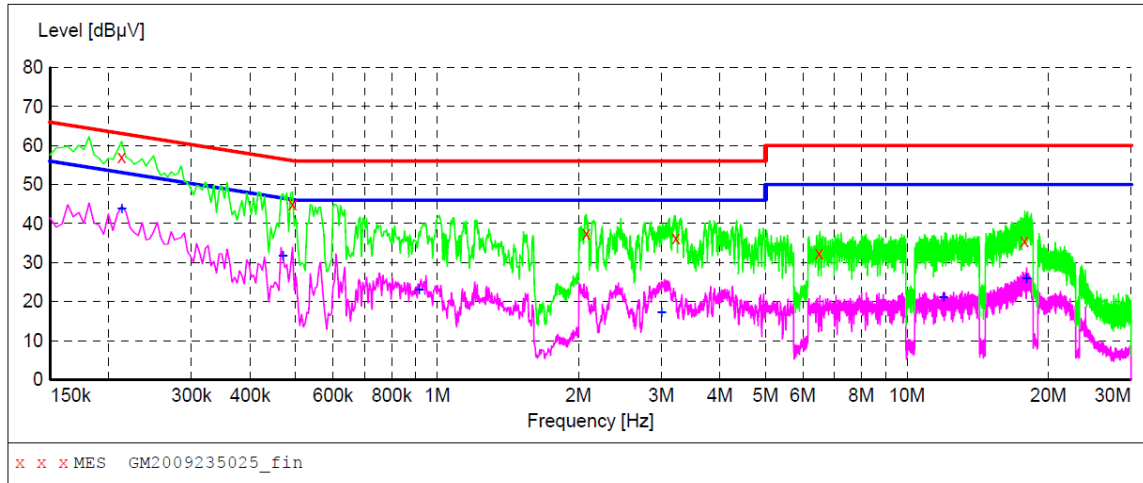
● Radiated emission-6th test site							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Semi-Anechoic Chamber	Albatross projects	HTWE0127	SAC-3m-02	C11121	2018/09/30	2021/09/29
●	EMI Test Receiver	R&S	HTWE0099	ESCI	100900	2019/10/26	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-Amplifier	SCHWARZBECK	HTWE0295	BBV 9742	N/A	2019/11/14	2020/11/13
●	RF Connection Cable	HUBER+SUHNER	HTWE0062-01	N/A	N/A	2020/05/27	2021/05/26
●	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 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	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	2021/10/10
●	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	2020/05/10	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
●	Test Software	Audix	N/A	E3	N/A	N/A	N/A



Test Line:

L

**MEASUREMENT RESULT: "GM2009235025\_fin"**

9/23/2020 11:01AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.213000	57.00	10.0	63	6.1	QP	L1	GND
0.492000	44.90	10.1	56	11.2	QP	L1	GND
2.076000	37.40	10.1	56	18.6	QP	L1	GND
3.219000	36.20	10.2	56	19.8	QP	L1	GND
6.504000	32.30	10.2	60	27.7	QP	L1	GND
17.790000	35.50	10.5	60	24.5	QP	L1	GND

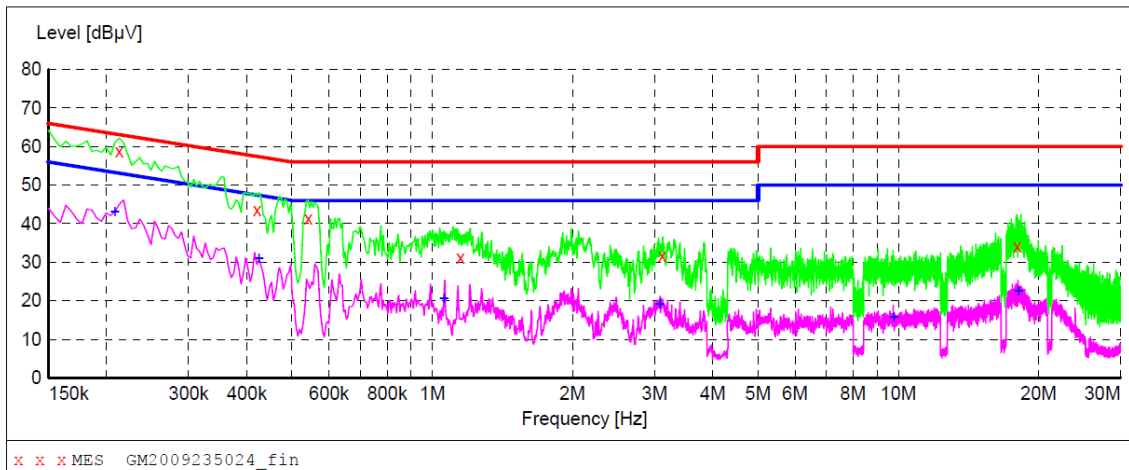
**MEASUREMENT RESULT: "GM2009235025\_fin2"**

9/23/2020 11:01AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.213000	43.90	10.0	53	9.2	AV	L1	GND
0.469500	31.60	10.1	47	14.9	AV	L1	GND
0.915000	23.10	10.1	46	22.9	AV	L1	GND
3.007500	17.10	10.2	46	28.9	AV	L1	GND
11.949000	21.10	10.4	50	28.9	AV	L1	GND
17.956500	25.90	10.5	50	24.1	AV	L1	GND

Test Line:

N

**MEASUREMENT RESULT: "GM2009235024\_fin"**

9/23/2020 10:58AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.213000	58.70	10.0	63	4.4	QP	N	GND
0.420000	43.60	10.1	57	13.8	QP	N	GND
0.541500	41.40	10.1	56	14.6	QP	N	GND
1.149000	31.30	10.1	56	24.7	QP	N	GND
3.115500	31.80	10.2	56	24.2	QP	N	GND
18.015000	34.20	10.5	60	25.8	QP	N	GND

**MEASUREMENT RESULT: "GM2009235024\_fin2"**

9/23/2020 10:58AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.208500	43.20	10.0	53	10.1	AV	N	GND
0.424500	30.90	10.1	47	16.5	AV	N	GND
1.059000	20.70	10.1	46	25.3	AV	N	GND
3.075000	19.00	10.2	46	27.0	AV	N	GND
9.789000	15.70	10.3	50	34.3	AV	N	GND
18.087000	22.60	10.5	50	27.4	AV	N	GND

## 5.2. Radiated Emissions Test

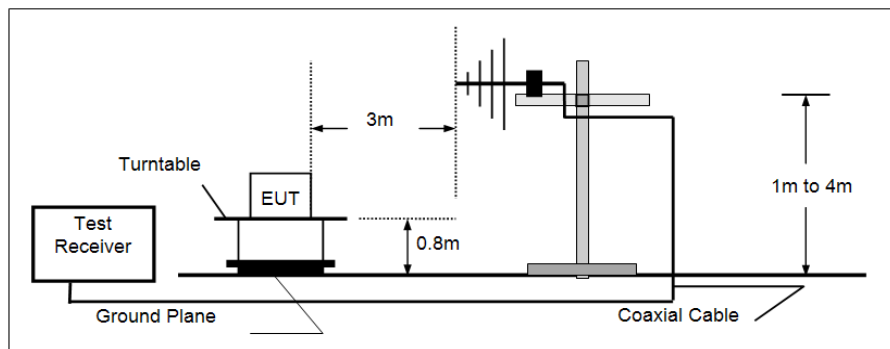
### LIMIT

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

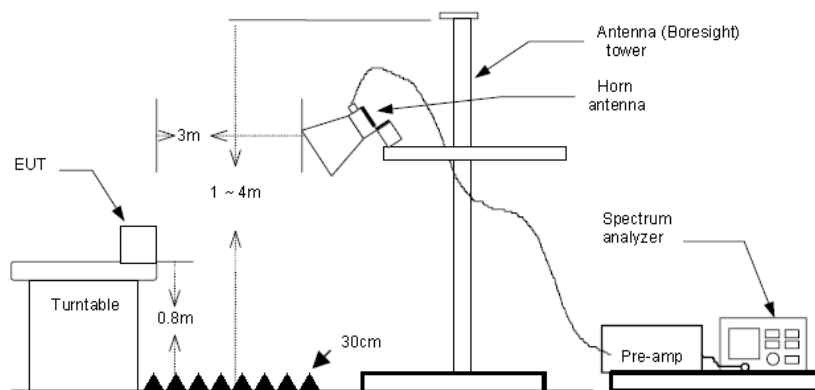
Frequency	Limit (dBuV/m @3m)	Value
30MHz-88MHz	40.00	Quasi-peak
88MHz-216MHz	43.50	Quasi-peak
216MHz-960MHz	46.00	Quasi-peak
960MHz-1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
	74.00	Peak

### 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

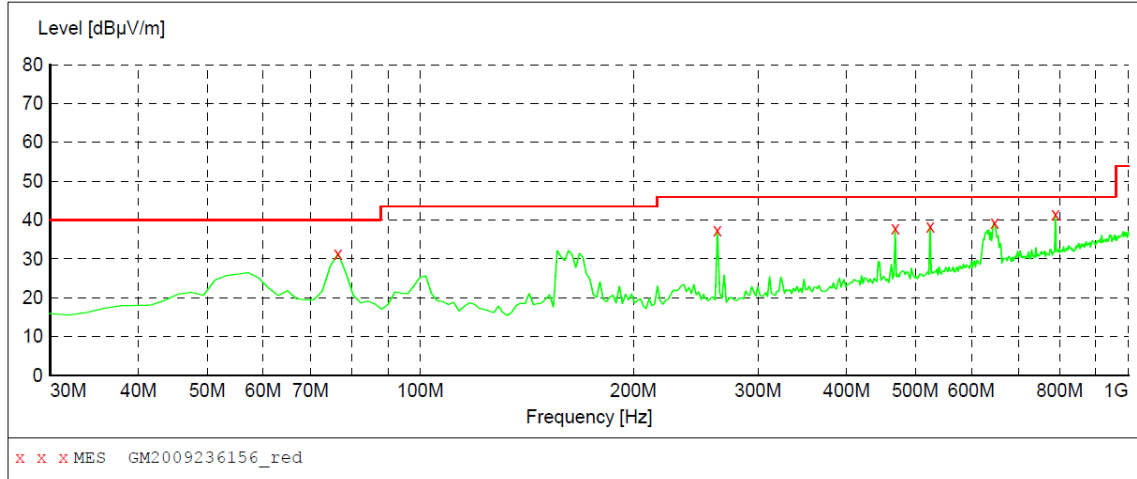
**TEST RESULTS**

☒ **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.

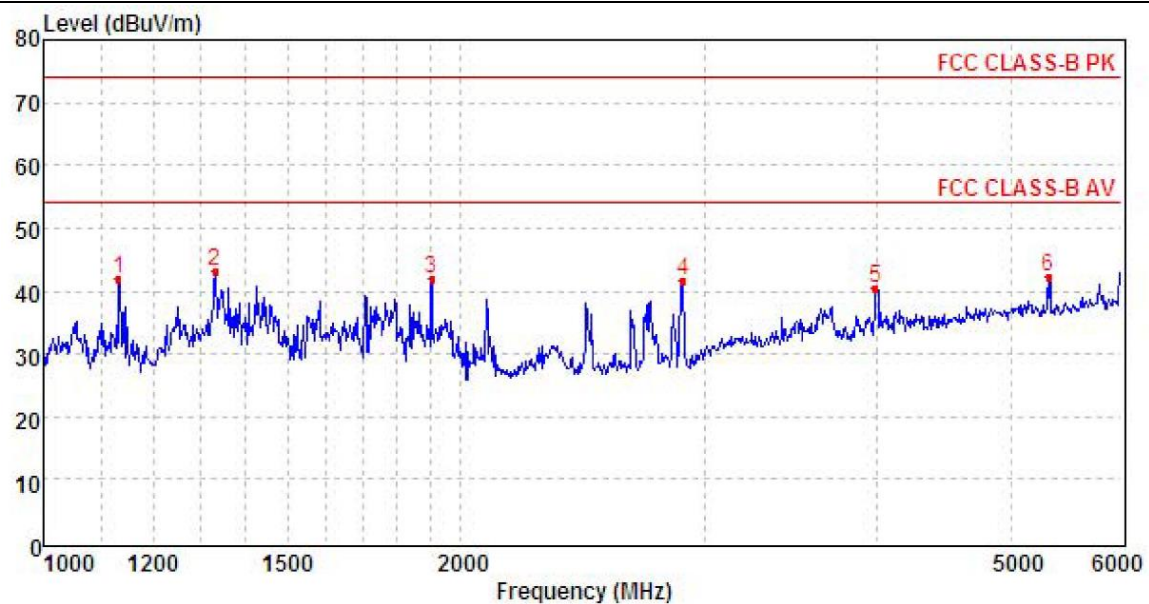
Polarization:

Horizontal

**MEASUREMENT RESULT: "GM2009236156\_red"**

9/23/2020 11:57PM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
76.560000	31.30	-14.7	40.0	8.7	QP	300.0	360.00	HORIZONTAL
262.800000	37.40	-7.6	46.0	8.6	QP	100.0	181.00	HORIZONTAL
468.440000	37.90	-2.1	46.0	8.1	QP	100.0	107.00	HORIZONTAL
524.700000	38.40	-0.4	46.0	7.6	QP	100.0	237.00	HORIZONTAL
646.920000	39.30	2.8	46.0	6.7	QP	300.0	236.00	HORIZONTAL
788.540000	41.60	5.8	46.0	4.4	QP	100.0	237.00	HORIZONTAL

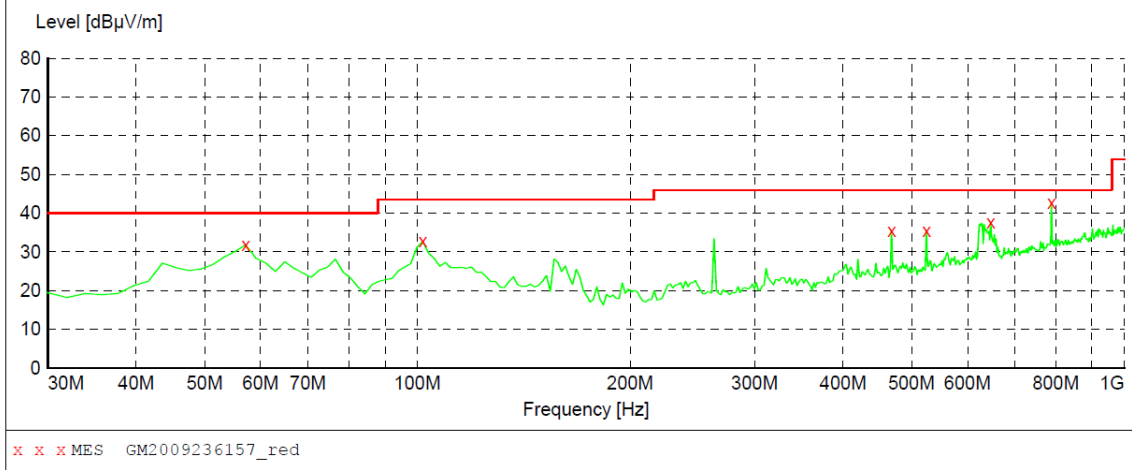


Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1133.63	48.33	25.40	5.01	36.82	41.92	74.00	-32.08	Peak
2	1329.62	47.82	26.18	5.46	36.37	43.09	74.00	-30.91	Peak
3	1906.05	46.66	25.81	6.54	36.99	42.02	74.00	-31.98	Peak
4	2893.64	41.95	28.60	8.33	37.39	41.49	74.00	-32.51	Peak
5	3987.79	36.89	29.90	10.15	36.39	40.55	74.00	-33.45	Peak
6	5311.74	34.13	31.42	12.01	35.41	42.15	74.00	-31.85	Peak



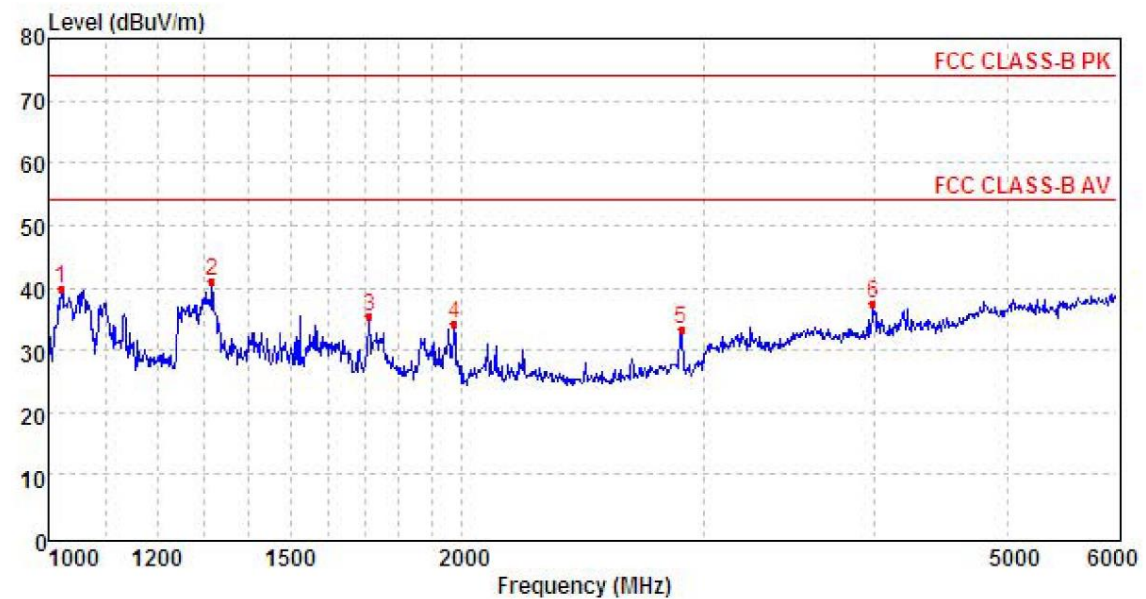
Polarization:

Vertical

**MEASUREMENT RESULT: "GM2009236157\_red"**

9/24/2020 12:00AM

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
57.160000	31.80	-8.5	40.0	8.2	QP	100.0	337.00	VERTICAL
101.780000	32.70	-9.9	43.5	10.8	QP	100.0	359.00	VERTICAL
468.440000	35.60	-2.1	46.0	10.4	QP	100.0	39.00	VERTICAL
524.700000	35.50	-0.4	46.0	10.5	QP	100.0	181.00	VERTICAL
646.920000	37.60	2.8	46.0	8.4	QP	100.0	209.00	VERTICAL
788.540000	42.70	5.8	46.0	3.3	QP	100.0	221.00	VERTICAL

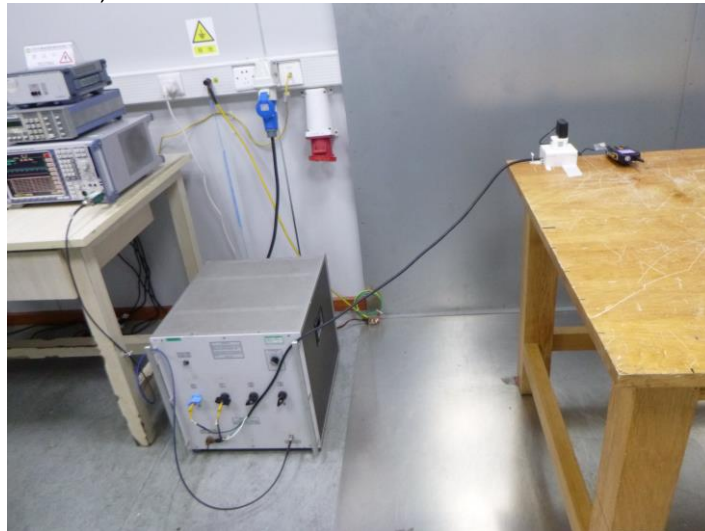


Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	1021.73	46.83	25.26	4.88	37.06	39.91	74.00	-34.09	Peak
2	1315.40	45.71	26.09	5.44	36.33	40.91	74.00	-33.09	Peak
3	1711.77	41.18	25.12	6.16	37.11	35.35	74.00	-38.65	Peak
4	1975.59	38.42	26.00	6.73	37.03	34.12	74.00	-39.88	Peak
5	2888.46	33.76	28.60	8.32	37.38	33.30	74.00	-40.70	Peak
6	3987.79	33.91	29.90	10.15	36.39	37.57	74.00	-36.43	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.: CHTEW20100017

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