



REPORT No.: SZ22050016E01

# TEST REPORT

**APPLICANT** : WIKO SAS

**PRODUCT NAME** : Smart phone

**MODEL NAME** : VHEM-E04

**BRAND NAME** : WIKO

**FCC ID** : 2AM86VHEM-E04

**STANDARD(S)** : 47 CFR Part 15 Subpart B

**RECEIPT DATE** : 2022-05-17

**TEST DATE** : 2022-05-19

**ISSUE DATE** : 2022-06-16

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Change History		
Version	Date	Reason for change
1.0	2022-06-16	First edition



# 1. Technical Information

**Note:** Provide by applicant.

## 1.1. Applicant and Manufacturer Information

<b>Applicant:</b>	WIKO SAS
<b>Applicant Address:</b>	132 Boulevard Michelet 13008 Marseille - France
<b>Manufacturer:</b>	WIKO SAS
<b>Manufacturer Address:</b>	132 Boulevard Michelet 13008 Marseille - France

## 1.2. Equipment Under Test (EUT) Description

<b>Product Name:</b>	Smart phone
<b>EUT No.:</b>	4#
<b>Hardware Version:</b>	V0.4
<b>Software Version:</b>	VHEM-V01.04-12.0-STS
<b>Tx Frequency:</b>	GSM850: 824 MHz ~ 849 MHz GSM1900: 1850 MHz ~ 1910 MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV: 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 66: 1710 MHz ~ 1780 MHz Bluetooth: 2402 MHz ~ 2480 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/ac/n: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz to 5700 MHz; 5745 MHz ~ 5825 MHz
<b>Rx Frequency:</b>	GSM850: 869 MHz ~ 894 MHz GSM1900: 1930 MHz ~ 1990 MHz WCDMA Band II: 1930 MHz ~ 1990 MHz WCDMA Band IV: 2110 MHz ~ 2155 MHz WCDMA Band V: 869 MHz ~ 894 MHz LTE Band 2: 1930 MHz ~ 1990 MHz



	LTE Band 4: 2110 MHz ~ 2155 MHz LTE Band 5: 869 MHz ~ 894 MHz LTE Band 7: 2620 MHz ~ 2690 MHz LTE Band 13: 746 MHz ~ 756 MHz LTE Band 26: 859 MHz ~ 894 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 66: 2110 MHz ~ 2200 MHz Bluetooth: 2402 MHz ~ 2480 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/ac/n: 5180 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz; 5500 MHz to 5700 MHz; 5745 MHz ~ 5825 MHz	
<b>Ancillary Equipment:</b>	<b>AC Adapter</b>	
	Brand Name:	WIKO
	Model No.:	SU1A24
	Serial No.:	(N/A, marked #1 by test site)
	Rated Input:	100-240V $\sim$ 50/60Hz, 0.75A
	Rated Output:	5.0V $\overline{\text{---}}$ 2.0A or 9.0V $\overline{\text{---}}$ 2.0A or 10V $\overline{\text{---}}$ 2.55A
	Manufacturer:	Shenzhen Huntkey Electric Co., Ltd.
	<b>Battery</b>	
	Brand Name:	N/A
	Model No.:	HB496590EFW-F
	Serial No.:	(N/A, marked #1 by test site)
	Capacity:	4900mAh
	Rated Voltage:	3.87V
	Charge Limit:	4.45V
	Manufacturer:	SCUD (Fujian) Electronics Co., Ltd.
	<b>USB Cable 1</b>	
	Model:	04072179
	Manufacturer:	Guangxi broad Telecommunication Co.,Ltd.
	<b>USB Cable 2</b>	
	Model:	04072295
	Manufacturer:	Guangdong Mingji Hi-Tech Electronics Co., Ltd
	<b>USB Cable 3</b>	
	Model:	18-93C2CHO-001HF
	Manufacturer:	Freeport Ji an Electronics Co.,Ltd
	<b>USB Cable 4</b>	
	Model:	L99UC131-CS-H
	Manufacturer:	LUXSHARE PRECISION INDUSTRY CO., LTD.



	<b>USB Cable 5</b>	
	Model:	CUDU01B-HC295-EH
	Manufacturer:	FUYU ELECTRONICAL TECHNOLOGY (HUAIAN) CO., LTD.

**Note:**

1. The materials LCD, PCB, motor, camera and speaker of this product have two suppliers. The differences between two suppliers only in the different model and manufacturer. The second supplier has verified RE, only the worst case of the first supplier is recorded in this report. We evaluated the above changes, which had no impact on the test results.
2. There are five kinds of USB Cables, the main USB Cable is USB Cable 1, and all USB Cable have been tested. For the RE and CE, only the worst case (USB Cable 5) is recorded in this report.
3. For a more detailed description, please refer to specification or user's manual supplied by the applicant and/or manufacturer.

## 2. Test Results

### 2.1. Applied Reference Documents

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart B:

No.	Identity	Document Title
1	47 CFR Part 15	Radio Frequency Devices

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Test Date	Test Engineer	Result	Method Determination Remark
1	15.107	Conducted Emission	2022.05.19	Wu Zhaoling	PASS	No deviation
2	15.109	Radiated Emission	2022.05.19	Yin Xiaogang	PASS	No deviation

**Note 1:** The tests were performed according to the method of measurements prescribed in ANSI C63.4-2014.

**Note 2:** Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.

**Note 3:** When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.



## 2.2. EUT Setup and Operating Conditions

Test Item	
Radiated Emission	
Mode 1	: GSM850 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable (Charging from Adapter) + Adapter + Earphone + SIM Card
Mode 2	: GSM1900 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable (Charging from Adapter) + Adapter + Earphone + SIM Card
Mode 3	: WCDMA Band II Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable (Charging from Adapter) + Adapter + Earphone + SIM Card
Mode 4	: WCDMA Band IV Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable (Charging from Adapter) + Adapter + Earphone + SIM Card
Mode 5	: WCDMA Band V Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable (Charging from Adapter) + Adapter + Earphone + SIM Card
Mode 6	: LTE Band 2 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable (Charging from Adapter) + Adapter + Earphone + SIM Card
Mode 7	: LTE Band 4 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable (Charging from Adapter) + Adapter + Earphone + SIM Card
Mode 8	: LTE Band 5 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable (Charging from Adapter) + Adapter + Earphone + SIM Card
Mode 9	: LTE Band 7 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable (Charging from Adapter) + Adapter + Earphone + SIM Card
Mode 10	: LTE Band 13 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable (Charging from Adapter) + Adapter + Earphone + SIM Card
Mode 11	: LTE Band 26 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable (Charging from Adapter) + Adapter + Earphone + SIM Card
Mode 12	: LTE Band 38 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable (Charging from Adapter) + Adapter + Earphone + SIM Card
Mode 13	: LTE Band 66 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable (Charging from Adapter) + Adapter + Earphone + SIM Card
Mode 14	: LTE Band 2 Idle + Bluetooth Idle + 5G WLAN Idle + WLAN Idle + Battery + USB Cable (Charging from Adapter) + Adapter + Earphone + SIM Card
Mode 15	: <b>LTE Band 7 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable (Charging from Adapter) + Adapter + Earphone + SIM Card + Rear Camera + Recording Mode</b>
Mode 16	: LTE Band 38 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable (Charging from Adapter) + Earphone + SIM Card + PC +PC Adapter + Data Transmission Mode
Remark:	



The above test mode in boldface (Mode 15) was the worst case of conducted emission test, only the test data of these modes were reported. The above test mode in boldface (Mode 15) was the worst case of radiated emission test, only the test data of these modes were reported.

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

Temperature (°C):	15 - 35
Relative Humidity (%):	30 - 60
Atmospheric Pressure (kPa):	86 - 106



## 3. 47 CFR Part 15B Requirements

### 3.1. Conducted Emission

#### 3.1.1. Requirement

According to FCC section 15.107, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50 $\mu$ H/50 $\Omega$  line impedance stabilization network (LISN).

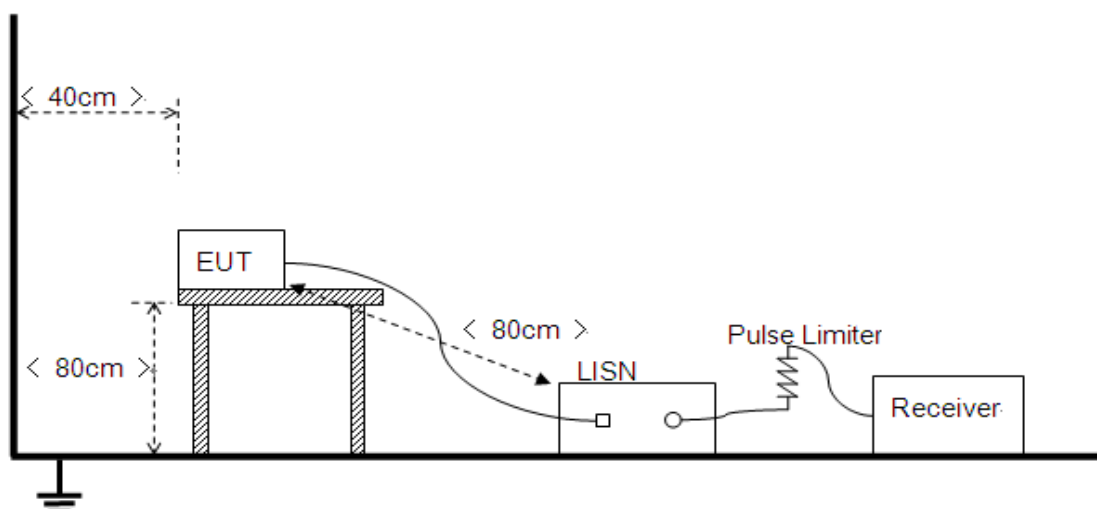
Frequency Range (MHz)	Conducted Limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

Note:

- The limit subjects to the Class B digital device.
- The lower limit shall apply at the band edges.
- The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

#### 3.1.2. Test Setup

Please refer to Annex A for the photographs of the Test Configuration.





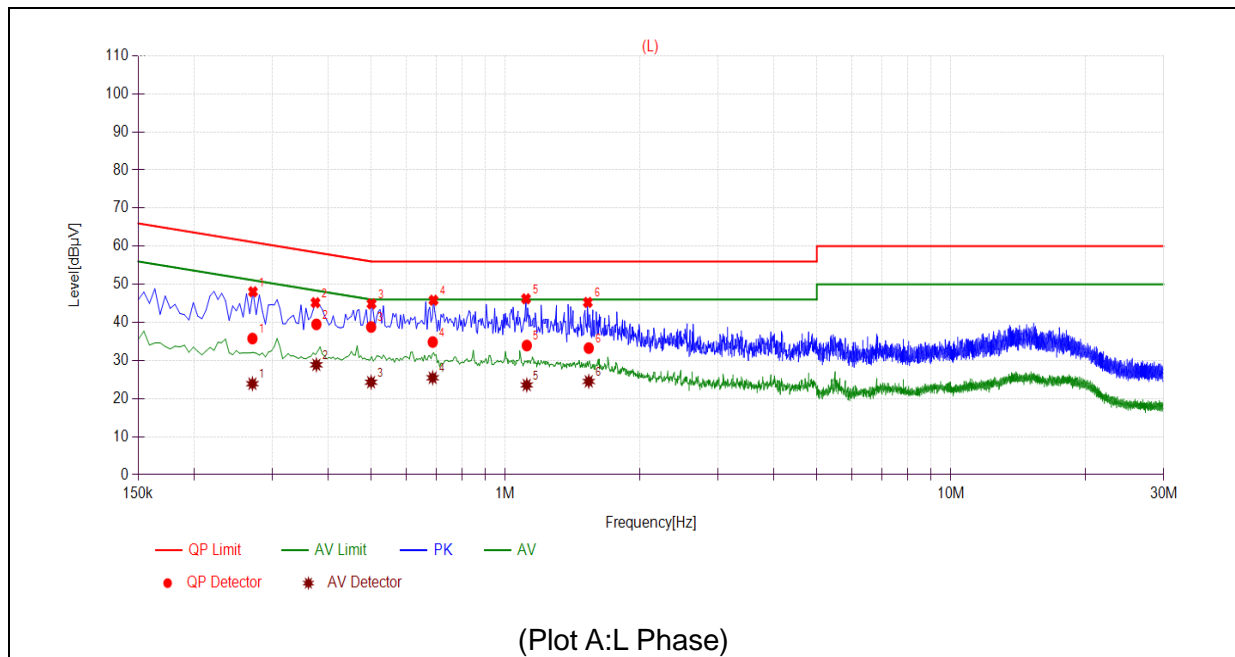
The EUT is placed on a 0.8m high insulating table, which stands on the grounded conducting floor, and keeps 0.4m away from the grounded conducting wall. The EUT is connected to the power mains through a LISN which provides  $50\Omega/50\mu\text{H}$  of coupling impedance for the measuring instrument. A Pulse Limiter is used to protect the measuring instrument. The factors of the whole test system are calibrated to correct the reading.

The power strip or extension cord has been investigated to make sure that the LISN integrity is maintained with respect to the impedance characteristics as prescribed in ANSI C63.4-2014 at Clause 4.3.

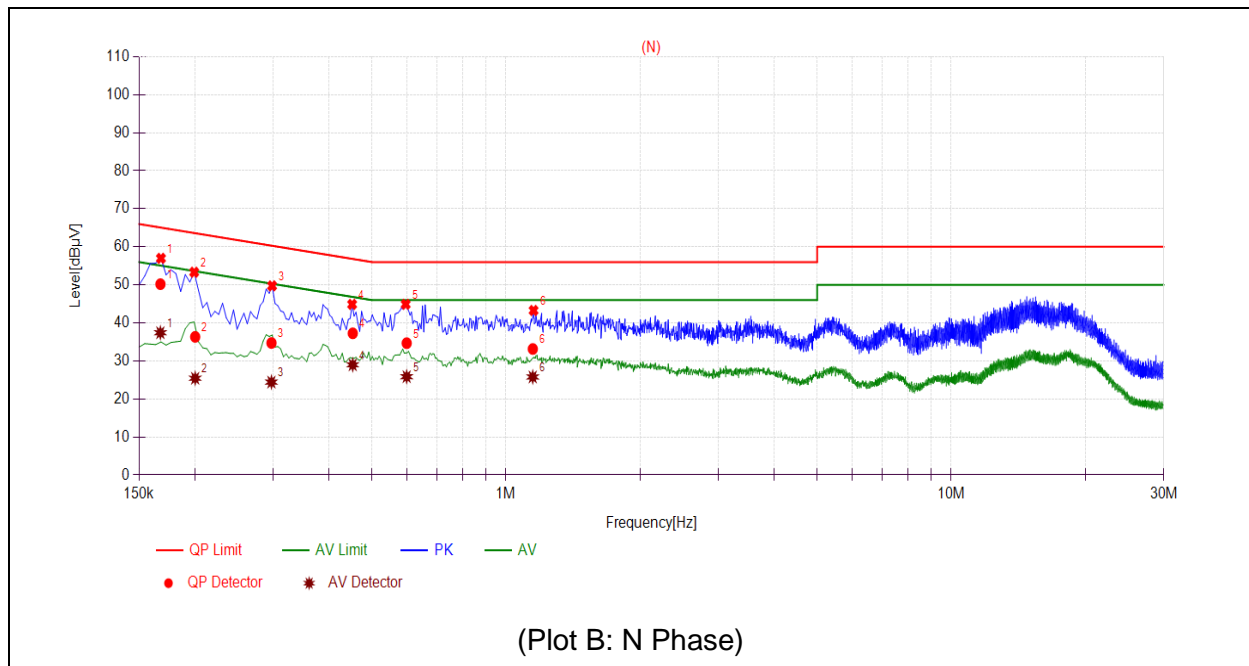
### 3.1.3. Test Result

Set RBW=9 kHz, VBW=30 kHz. The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. All test modes are considered, refer to recorded points and plots below.

## A. Test Plot and Suspicious Points:



No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.2707	35.76	23.90	61.10	51.10	Line	PASS
2	0.3767	39.49	28.87	58.35	48.35		PASS
3	0.4998	38.81	24.31	56.00	46.00		PASS
4	0.6870	34.85	25.46	56.00	46.00		PASS
5	1.1170	33.94	23.57	56.00	46.00		PASS
6	1.5385	33.26	24.52	56.00	46.00		PASS



No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1675	50.19	37.41	65.08	55.08	Neutral	PASS
2	0.2005	36.33	25.44	63.59	53.59		PASS
3	0.2974	34.72	24.43	60.32	50.32		PASS
4	0.4528	37.26	28.97	56.82	46.82		PASS
5	0.5985	34.67	25.85	56.00	46.00		PASS
6	1.1487	33.15	25.78	56.00	46.00		PASS

## 3.2. Radiated Emission

### 3.2.1. Requirement

According to FCC section 15.109 (a), the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency Range (MHz)	Field Strength Limitation at 3m Measurement Dist	
	( $\mu\text{V/m}$ )	(dB $\mu\text{V/m}$ )
30.0 - 88.0	100	20log 100
88.0 - 216.0	150	20log 150
216.0 - 960.0	200	20log 200
Above 960.0	500	20log 500

As shown in FCC section 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector. When average radiated emission measurements are specified in this part, including emission measurements below 1000MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

Note:

- 1) The tighter limit shall apply at the boundary between two frequency range.
- 2) Limitation expressed in dB $\mu\text{V/m}$  is calculated by 20log Emission Level ( $\mu\text{V/m}$ ).

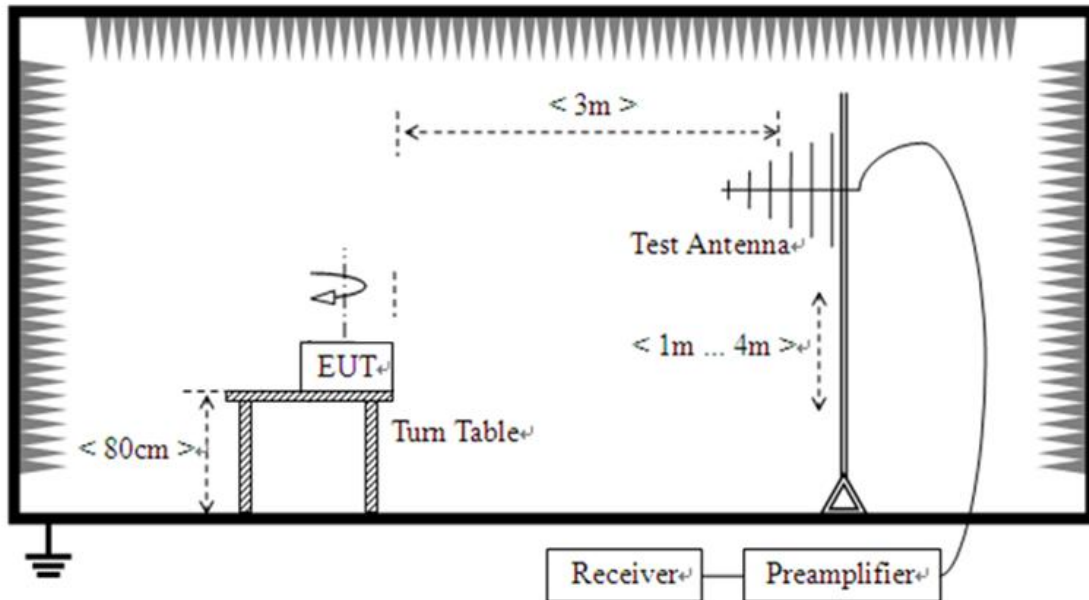
### 3.2.2. Frequency Range of Measurement

According to 15.33(b)(1), the frequency range of radiated measurement for the EUT is listed in the following table:

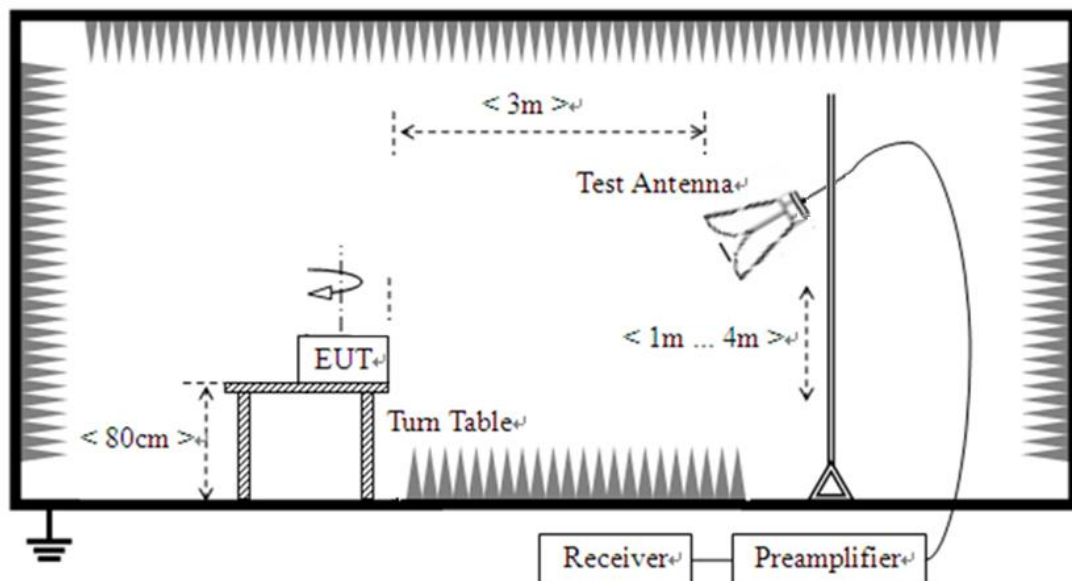
Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705 .....	30.
1.705–108 .....	1000.
108–500 .....	2000.
500–1000 .....	5000.
Above 1000 .....	5th harmonic of the highest frequency or 40 GHz, whichever is lower.

### 3.2.3. Test Setup

- 1) For radiated emissions from 30MHz to 1GHz



- 2) For radiated emissions above 1GHz





The test is performed in a 3m Semi-Anechoic Chamber; the antenna factor, cable loss and so on of the site (factors) is calculated to correct the reading. The EUT is placed on a 0.8m high insulating Turn Table, and keeps 3m away from the Test Antenna, which is mounted on a variable-height antenna master tower.

For the test Antenna:

In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. The emission levels at both horizontal and vertical polarizations should be tested.

For measurements below 1GHz the resolution bandwidth is set to 120 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

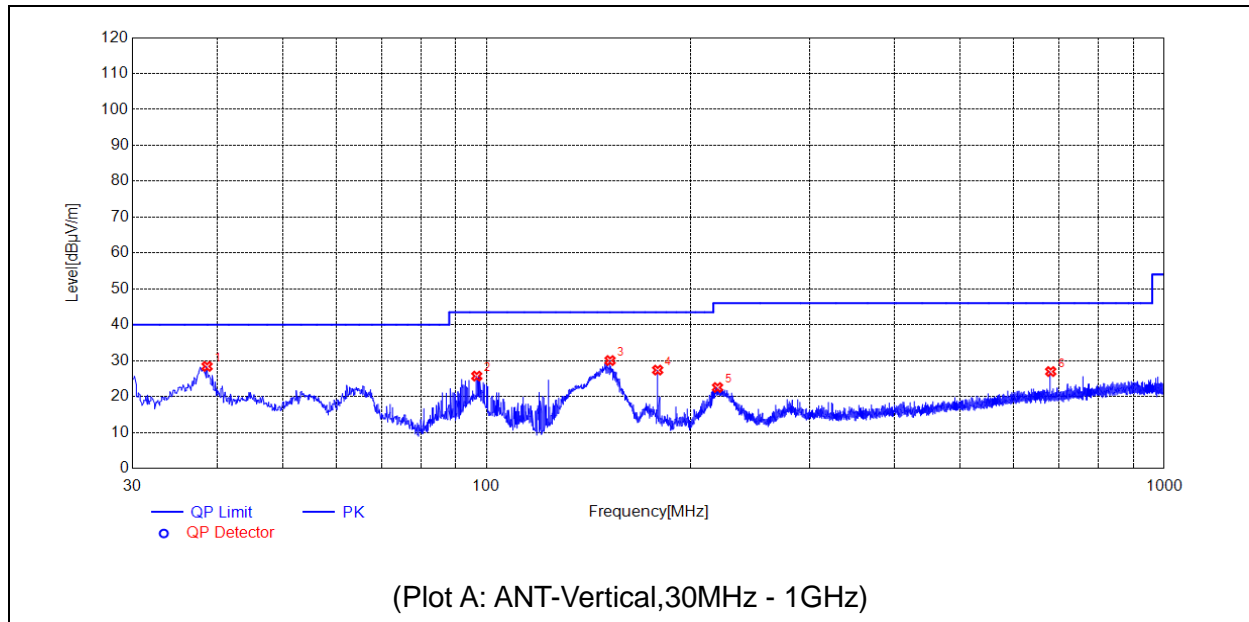
For measurements above 1GHz the resolution bandwidth is set to 1MHz, the video bandwidth is set to 3MHz for peak measurements and as applicable for average measurements.

#### **3.2.4. Test Result**

The maximum radiated emission is searched using PK, QP and AV detectors; the emission levels more than the limits, and that have narrow margins from the limits will be re-measured with AV and QP detectors. Both the vertical and the horizontal polarizations of the Test Antenna are considered to perform the tests. All test modes are considered, refer to recorded points and plots below.

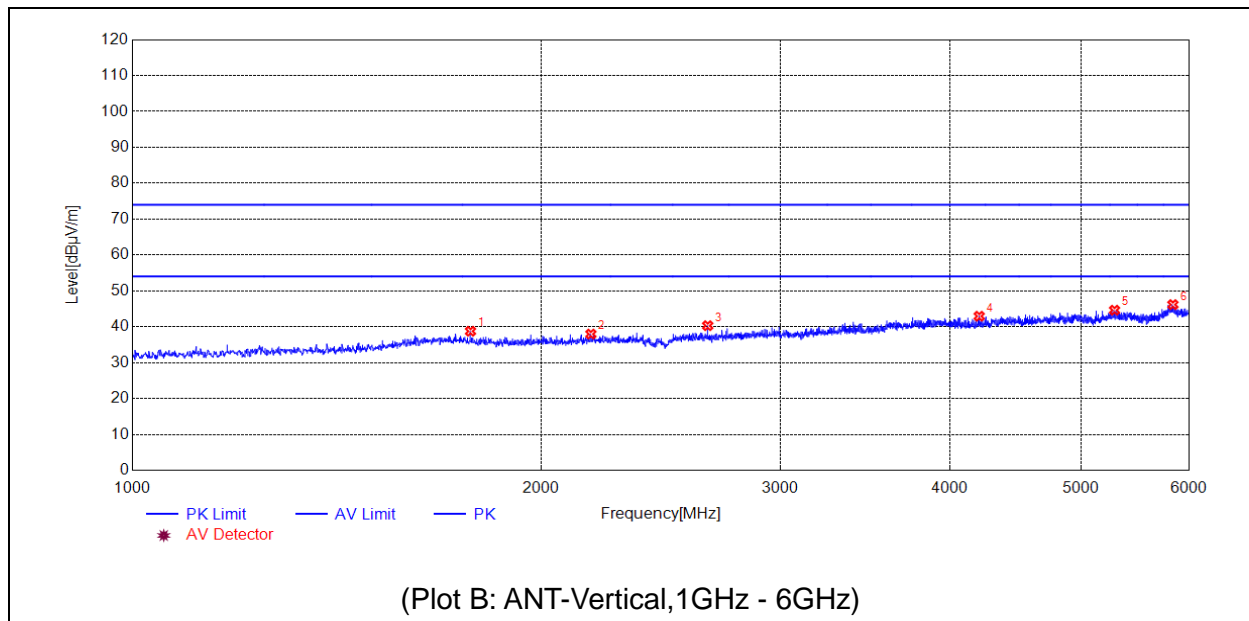
The amplitude of emissions (6GHz-30GHz) which are attenuated more than 20 dB below the permissible value need not be reported.

Note: All radiated emission tests were performed in X, Y, Z axis direction, and only the worst axis test condition was recorded in this test report.

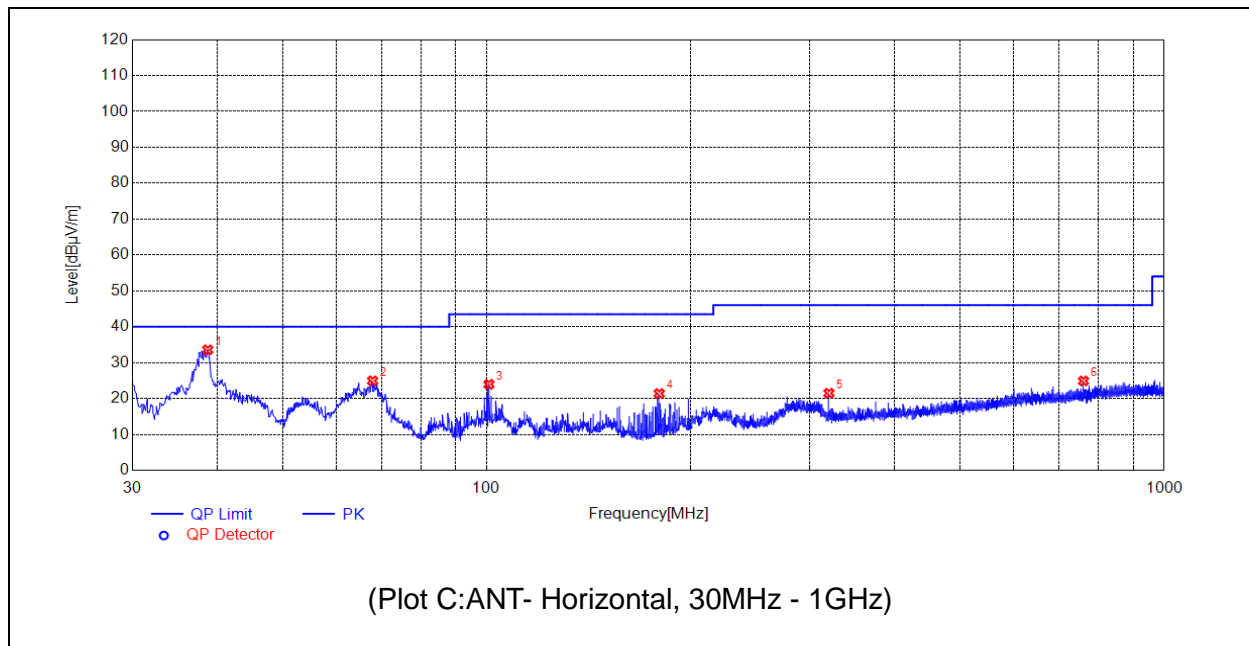


No.	Fre. MHz	PK dBμV/m	QP dBμV/m	AV dBμV/m	Limit-PK dBμV/m	Limit-QP dBμV/m	Limit-AV dBμV/m	ANT	Verdict
1	38.6339	28.40	N.A.	N.A.	N.A.	40.00	N.A.	V	PASS
2	96.6457	25.70	N.A.	N.A.	N.A.	43.50	N.A.	V	PASS
3	152.0382	30.03	N.A.	N.A.	N.A.	43.50	N.A.	V	PASS
4	178.7159	27.37	N.A.	N.A.	N.A.	43.50	N.A.	V	PASS
5	219.0719	22.53	N.A.	N.A.	N.A.	46.00	N.A.	V	PASS
6	679.9650	26.96	N.A.	N.A.	N.A.	46.00	N.A.	V	PASS

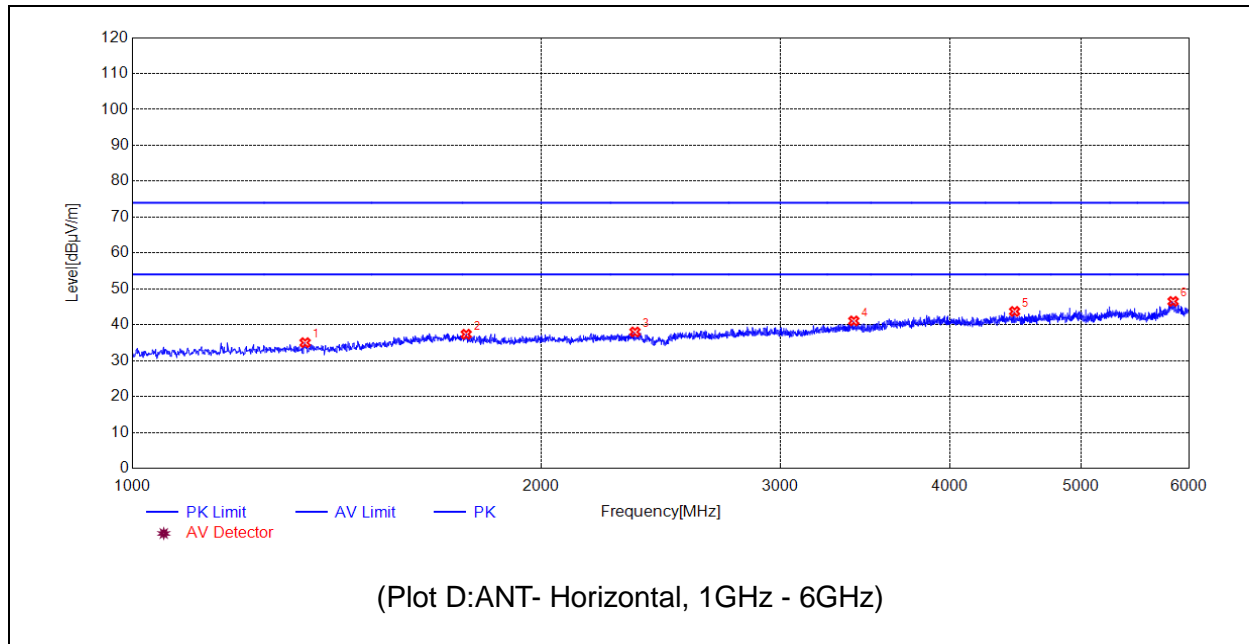




No.	Fre. MHz	PK dBμV/m	QP dBμV/m	AV dBμV/m	Limit-PK dBμV/m	Limit-QP dBμV/m	Limit-AV dBμV/m	ANT	Verdict
1	1774.1548	38.75	N.A.	N.A.	74.00	N.A.	54.00	V	PASS
2	2176.2352	37.97	N.A.	N.A.	74.00	N.A.	54.00	V	PASS
3	2653.3307	40.30	N.A.	N.A.	74.00	N.A.	54.00	V	PASS
4	4205.6411	42.94	N.A.	N.A.	74.00	N.A.	54.00	V	PASS
5	5290.8582	44.62	N.A.	N.A.	74.00	N.A.	54.00	V	PASS
6	5841.9684	46.17	N.A.	N.A.	74.00	N.A.	54.00	V	PASS



No.	Fre. MHz	PK dBμV/m	QP dBμV/m	AV dBμV/m	Limit-PK dBμV/m	Limit-QP dBμV/m	Limit-AV dBμV/m	ANT	Verdict
1	38.7309	33.58	N.A.	N.A.	N.A.	40.00	N.A.	H	PASS
2	67.8338	24.94	N.A.	N.A.	N.A.	40.00	N.A.	H	PASS
3	100.7201	23.96	N.A.	N.A.	N.A.	43.50	N.A.	H	PASS
4	179.6860	21.39	N.A.	N.A.	N.A.	43.50	N.A.	H	PASS
5	319.9620	21.48	N.A.	N.A.	N.A.	46.00	N.A.	H	PASS
6	759.9980	24.90	N.A.	N.A.	N.A.	46.00	N.A.	H	PASS



No.	Fre. MHz	PK dBμV/m	QP dBμV/m	AV dBμV/m	Limit-PK dBμV/m	Limit-QP dBμV/m	Limit-AV dBμV/m	ANT	Verdict
1	1340.0680	35.01	N.A.	N.A.	74.00	N.A.	54.00	H	PASS
2	1761.1522	37.35	N.A.	N.A.	74.00	N.A.	54.00	H	PASS
3	2345.2691	37.99	N.A.	N.A.	74.00	N.A.	54.00	H	PASS
4	3399.4799	41.07	N.A.	N.A.	74.00	N.A.	54.00	H	PASS
5	4465.6931	43.71	N.A.	N.A.	74.00	N.A.	54.00	H	PASS
6	5843.9688	46.50	N.A.	N.A.	74.00	N.A.	54.00	H	PASS



## Annex A Test Uncertainty

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO.

### Uncertainty of Conducted Emission Measurement

Measuring Uncertainty for a Level of Confidence of 95%(U=2Uc(y))	9kHz-150kHz	±3.3dB
	150kHz-30MHz	±2.8dB

### Uncertainty of Radiated Emission Measurement

Measuring Uncertainty for a Level of Confidence of 95%(U=2Uc(y))	30MHz-200MHz	±5.06dB
	200MHz-1000MHz	±5.04dB
	1GHz-6GHz	±5.18dB
	6GHz-18GHz	±5.48dB



## Annex B Testing Laboratory Information

### 1. Identification of the Responsible Testing Laboratory

<b>Laboratory Name:</b>	Shenzhen Morlab Communications Technology Co., Ltd.
<b>Laboratory Address:</b>	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
<b>Telephone:</b>	+86 755 36698555
<b>Facsimile:</b>	+86 755 36698525

### 2. Identification of the Responsible Testing Location

<b>Name:</b>	Shenzhen Morlab Communications Technology Co., Ltd.
<b>Address:</b>	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

### 3. Accreditation Certificate

<b>Accredited Testing Laboratory:</b>	The FCC designation number is CN1192. Test firm registration number is 226174. (Shenzhen Morlab Communications Technology Co., Ltd.)
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### 4. Test Software Utilized

Model	Version Number	Producer
TS+ -[JS32-RE]	Version 2.5.0.6	Tonscend
TS+ -[JS32-CE]	Version 2.5.0.0	Tonscend

**5. Test Equipments Utilized**

Description	Model	Serial No.	Manufacturer	Cal. Date	Due. Date
Bi-Log Antenna	VULB 9163	9163-519	SCHWARZBECK	2019/5/24	2022/5/23
Horn Antenna	BBHA 9120D	01774	SCHWARZBECK	2019/7/26	2022/7/25
Horn Antenna	BBHA9170	BBHA9170 #774	SCHWARZBECK	2019/7/26	2022/7/25
Preamplifier	S150300L3202	71136	LUCIX CORP.	2021/7/16	2022/7/15
Receiver	N9038A	MY564000 93	KEYSIGHT	2022/3/3	2023/3/2
6db Attenuator	BW-N6W5+	E191001	Mini-circuits	2021/10/18	2022/10/17
Preamplifier	S020180L3203	61171/611 72	LUCIX CORP.	2021/7/15	2022/7/14
Preamplifier	S10M100L3802	46732	LUCIX CORP.	2021/7/15	2022/7/14
Receiver	ESPI	101052	R&S	2021/7/16	2022/7/15
LISN	NSLK 8127	8127449	Schwarzbeck	2022/3/3	2023/3/2
10dB Pulse Limiter	VTSD 9561-F	VTSD 9561 F-B #206	SCHWARZBECK	2021/7/21	2022/7/20

**6. Ancillary Equipment Utilized**

Description	Manufacturer	Model	Serial No.
PC	DELL	P144G	20210357
PC Adapter	DELL	HA65NM190	NA
Earphone	OPPO	N/A	N/A

\_\_\_\_\_ END OF REPORT \_\_\_\_\_