

# **TEST REPORT**

**APPLICANT**: Hot Pepper Mobile Inc.

**PRODUCT NAME**: Smart Phone

MODEL NAME : HPPL60A

**BRAND NAME**: Hot Pepper

**FCC ID** : 2A33N-L60C

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

**RECEIPT DATE** : 2021-12-10

**TEST DATE** : 2022-01-26 to 2022-01-28

**ISSUE DATE** : 2023-11-03

Certification

ROBAL SERVICE

AND STATEM CENTRAL

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Change History					
Version Date Reason for Change					
1.0 2023-11-03		First edition			

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# 1. Technical Information

Note: Provide by applicant

## 1.1. Applicant and Manufacturer Information

Applicant: Hot Pepper Mobile Inc.	
Applicant Address: 350 10th Ave 1000 Ste San Diego CA 92101-8705	
Manufacturer:	Hot Pepper Mobile Inc.
Manufacturer Address:	350 10th Ave 1000 Ste San Diego CA 92101-8705

## 1.2. Equipment Under Test (EUT) Description

Product Name:	Smart Phone		
EUT No.:	5#		
Hardware Version:	AA20_P2		
Software Version:	HPP-L60A-3.0.6		
Tx Frequency:	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 12: 699 MHz ~ 716 MHz		
	LTE Band 13: 777 MHz ~ 787 MHz		
	LTE Band 25: 1850 MHz ~ 1915 MHz		
	LTE Band 26: 814 MHz ~ 849 MHz		
	LTE Band 41: 2496 MHz ~ 2690 MHz		
	LTE Band 66: 1710 MHz ~ 1780 MHz		
	LTE Band 71: 663 MHz ~ 698 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 ~ 5700 MHz; 5745 MHz ~ 5825 MHz		
Rx Frequency:	GSM850: 869MHz ~ 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	0 MHz ~ 1990 MHz				
	LTE Band 4: 2110	) MHz ~ 2155 MHz				
	LTE Band 5: 869	MHz ~ 894 MHz				
	LTE Band 12: 729 MHz ~ 746 MHz					
		LTE Band 13: 746 MHz ~ 756 MHz				
		LTE Band 25: 1930 MHz ~ 1995 MHz				
		LTE Band 26: 859 MHz ~894 MHz				
		96 MHz ~ 2690 MHz				
		10 MHz ~ 2200 MHz 7 MHz ~ 652 MHz				
	Bluetooth: 2402 N					
		2 MHz ~ 2462 MHz				
	•	30 MHz ~ 5240 MHz; 5260 MHz ~ 5320 MHz;				
		0 MHz; 5745 MHz ~ 5825 MHz				
	GPS:1559 MHz ~	- 1610 MHz				
	FM : 87.5 MHz ~	108 MHz				
Accessory:	AC Adapter					
	Brand Name:	N/A				
	Model No.:	TPA-46050200UU				
	Serial No.:	(N/A, marked #1 by test site)				
	Rated Input:	100-240V~50/60Hz, 0.3A				
	Rated Output:	5V=2A				
	Manufacturer:	SHENZHEN TIANYIN ELECTRONICS				
		CO.,LTD.				
	Battery					
	Brand Name:	Hot Pepper				
	Model No.:	HPP-L60A				
	Serial No.:	(N/A, marked #1 by test site)				
	Capacity:	3200mAh				
	Rated Voltage:	3.8V				
	Charge Limit: 4.35V					
	Manufacturer: Shenzhen Aerospace Electronic Co., Ltd.					
	USB Cable					
	Model No.: Y50005					
	Manufacturer: ShenZhen Zhengda Electronic Technology CO.,LTD					
L	•	1				





#### Note:

- 1. This test report is variant from the original report (Report No.: SZ21120041E01, Model Name: HPPL60A, FCC ID: 2A33N-L60A) based on the similarity between before, made the following changes:
  - 1) Add LTE B13 by change software version
  - 2) Changed Camera
  - 3) Changed the RAM
  - 4) Changed the FCC ID: 2A33N-L60C

This test has been tested RE. For RE, the test results in this report still refer to the test results of the original test report. The others are the same as before.

2. 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	2022.01.26	Huang Zhiye	PASS <sup>Note 4</sup>	No deviation
2	15.109	Radiated Emission	2022.01.28	Lin Jiayong	PASS <sup>Note 4</sup>	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.

**Note 4:** The test results of these test items in this report refer to the test report (Report No.: SZ21120041E01).



## 2.2. EUT Setup and Operating Conditions

Note: All of the following test modes are tested in all the test items.

Test Mode	s
Mode 1 :	GSM850 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + Earphone + USB Cable
	+ Adapter + SIM Card
Mode 2 :	GSM1900 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + Earphone + USB Cable +
	Adapter + SIM Card
Mode 3 :	WCDMA Band II Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + Earphone + USB
	Cable + Adapter + SIM Card
Mode 4 :	WCDMA Band IV Idle + Bluetooth Idle + 5G WLAN Idle + Battery + Earphone + USB
	Cable + Adapter + SIM Card
Mode 5 :	WCDMA Band V Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + Earphone + USB
	Cable + Adapter + SIM Card
Mode 6 :	LTE Band 2 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + Earphone + USB Cable
	+ Adapter + SIM Card
Mode 7 :	LTE Band 4 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery +Earphone + Adapter +
	SIM Card
Mode 8 :	LTE Band 5 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + Earphone + USB Cable
	+ Adapter + SIM Card
Mode 9 :	LTE Band 12 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + Earphone + USB
	Cable + Adapter + SIM Card
Mode 10:	LTE Band 25 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + Earphone + USB
	Cable + Adapter + SIM Card
Mode 11:	LTE Band 26 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + Earphone + USB
	Cable + Adapter + SIM Card
Mode 12:	LTE Band 41 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + Earphone + USB
M 1 40	Cable + Adapter + SIM Card
Mode 13:	LTE Band 66 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + Earphone + USB
Mode 14 ·	Cable + Adapter + SIM Card
INIOGE 14 .	LTE Band 71 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + Earphone + USB
Modo 15 :	Cable + Adapter + SIM Card  GSM850 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + Earphone + USB Cable
INIOUE IJ .	+ Adapter + SIM Card + GPS Rx
Mode 16 ·	WCDMA Band II Idle + Bluetooth Idle + 5G WLAN Idle + Battery + Earphone + USB
INIOUG TO .	Cable + Adapter + SIM Card + FM Rx
Mode 17 ·	LTE Band 2 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + Earphone + USB
	Cable + SIM Card+ PC(Data Transfer Mode) + PC Adapter



Mode 18:	LTE Band 4 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + Earphone + USB
	Cable + Adapter + SIM Card +Camera
Mode 19:	LTE Band 13 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + Earphone + USB
	Cable + Adapter + SIM Card

#### Remark:

The above test mode in boldface (Mode 18) was the worst case of conducted emission test, only the test data of these modes were reported. The above test mode in boldface (Mode 17) 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 ACpower 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).

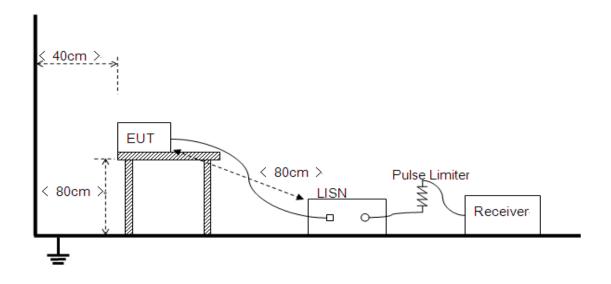
Frequency Range	ncy Range Conducted Limit (dBµV)		
(MHz)	Quasi-peak	Average	
0.15 - 0.50	66 to 56	56 to 46	
0.50 - 5	56	46	
5 - 30	60	50	

#### NOTE:

- a) The limit subjects to the Class B digital device.
- b) The lower limit shall apply at the band edges.
- c) 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  $50\Omega/50\mu H$  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 inma intained 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.

The measurement results are obtained as below:

 $\label{eq:energy} E\left[dB\mu V\right] = U_R[dB\mu V] + L_{Cable\ loss}\left[dB\right] + A_{Factor}\left[dB\right]$ 

U<sub>R</sub>: Receiver Reading

A<sub>Factor</sub>: Voltage Division Factor of LISN

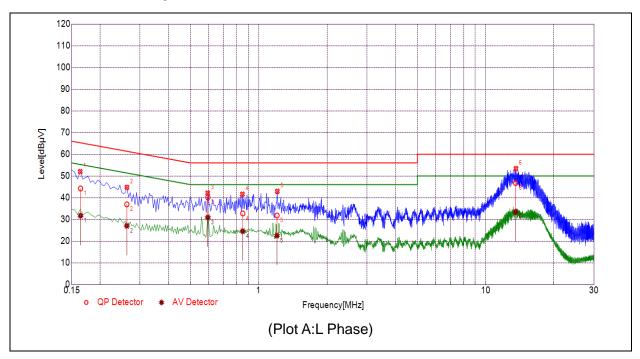
L<sub>Cable loss</sub>: Correction Factor Contains Pulse Limiter and Cable

During the test, the total correction Factor L<sub>Cable loss</sub> and A<sub>Factor</sub> were built in test software.



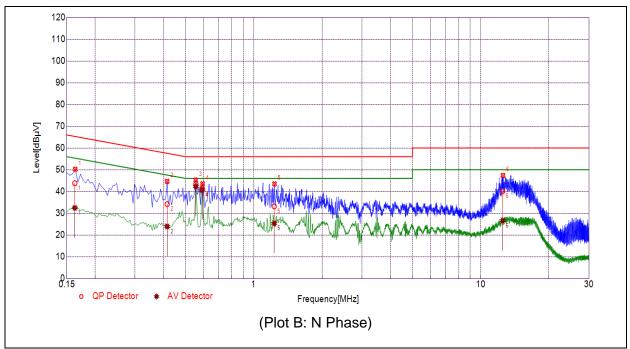


## A. Test Plot and Suspicious Points:



NO	Fre.	Emission Le	vel (dBµV)	Limit (c	lΒμV)	Dower line	Verdict
NO.	(MHz)	Quasi-peak	Average	Quasi-peak	Average	Power-line	verdict
1	0.1640	44.24	31.67	65.26	55.26	Line	PASS
2	0.2623	36.91	27.03	61.36	51.36		PASS
3	0.5966	40.12	30.90	56.00	46.00		PASS
4	0.8503	32.73	24.55	56.00	46.00		PASS
5	1.2036	31.79	22.55	56.00	46.00		PASS
6	13.5418	46.71	33.41	60.00	50.00		PASS





NO.	Fre.	Emission Le	vel (dBµV)	Limit (c	dΒμV)	Power-line	Verdict
NO.	(MHz)	Quasi-peak	Average	Quasi-peak	Average	Power-line	verdict
1	0.1628	43.79	32.45	65.32	55.32		PASS
2	0.4156	34.16	23.87	57.54	47.54		PASS
3	0.5560	43.43	42.22	56.00	46.00	Noutral	PASS
4	0.5930	41.40	40.72	56.00	46.00	Neutral	PASS
5	1.2307	33.15	25.33	56.00	46.00		PASS
6	12.4991	40.11	26.57	60.00	50.00		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	Field Strength Limitation	Field Strength Limitation at 3m Measurement Dist				
Range (MHz)	(μV/m)	(dBµV/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 indBμV/m is calculated by 20log Emission Level(μV/m).

#### 3.2.2. Frequency Range of Measurement

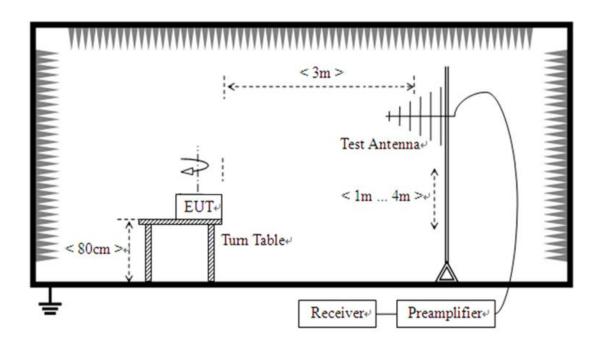
According to 15.33(b)(1), the frequency range of radiated measurement for the EUT is listed in the following table:

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

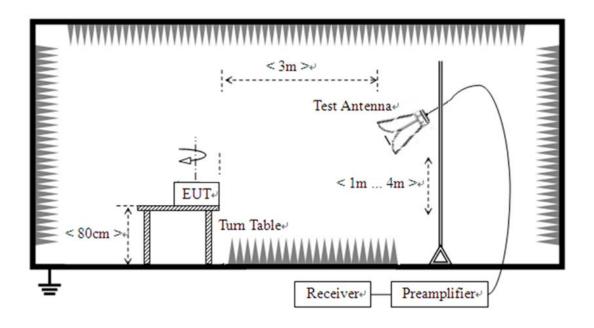


### 3.2.3. Test Setup

1) For radiated emissions from 30MHz to 1GHz



2) For radiated emissions above 1GHz



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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 3maway from the Test Antenna, which is mounted on 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 120kHz 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 which (6GHz-30GHz) are attenuated more than 20 dB below the permissible value need not be reported.

The measurement results are obtained as below:

 $E \left[ dB\mu V/m \right] = U_R \left[ dB\mu V \right] + A_T [dB] + A_{Factor} \left[ dB \right]; A_T = L_{Cable \ loss} \left[ dB \right] - G_{preamp} \left[ dB \right]$ 

A<sub>T</sub>: Total correction Factor except Antenna

U<sub>R</sub>: Receiver Reading

G<sub>preamp</sub>: Preamplifier Gain

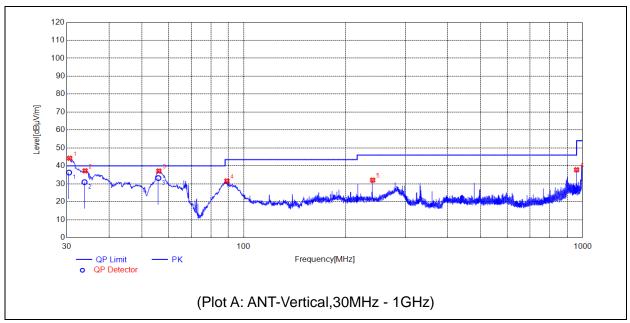
A<sub>Factor</sub>: Antenna Factor at 3m

During the test, the total correction Factor A<sub>T</sub> and A<sub>Factor</sub> were built in test software.

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.

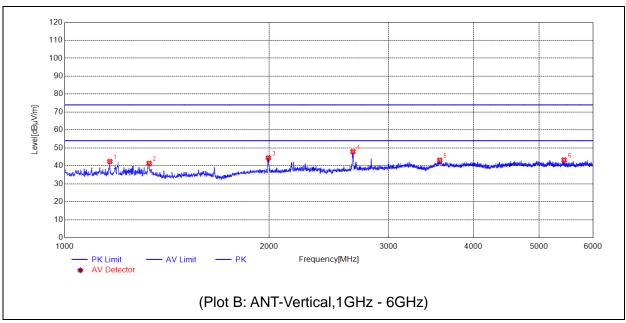






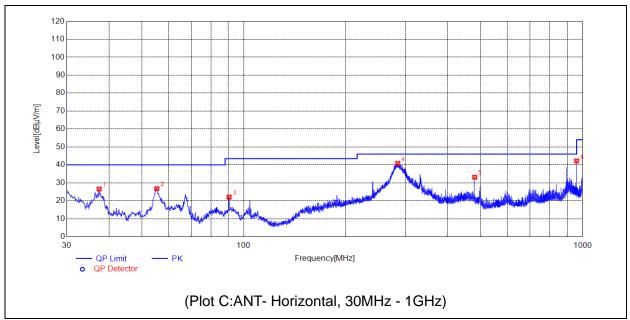
No.	Fre. MHz	PK dBµV/m	QP dBµV/m	AV dBμV/m	Limit-PK dBµV/m	Limit-QP dBµV/m	Limit-AV dBµV/m	ANT	Verdict
1	30.5821	44.23	36.27	N.A	N.A	40.00	N.A	<b>V</b>	PASS
2	33.9774	37.25	30.94	N.A	N.A	40.00	N.A	>	PASS
3	56.0956	37.13	33.21	N.A	N.A	40.00	N.A	V	PASS
4	89.0789	31.58	N.A	N.A	N.A	43.50	N.A	V	PASS
5	239.9290	32.06	N.A	N.A	N.A	46.00	N.A	>	PASS
6	960.0320	37.82	N.A	N.A	N.A	54.00	N.A	V	PASS





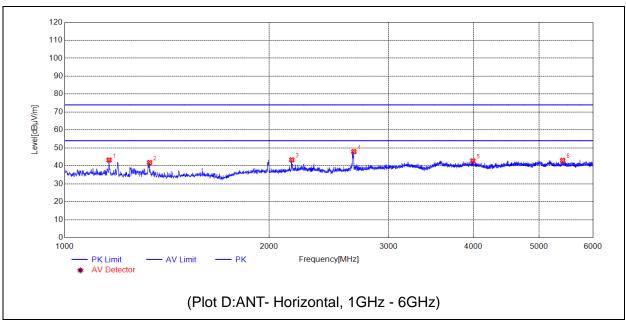
No.	Fre. MHz	PK dBµV/m	QP dBµV/m	ΑV dBμV/m	Limit-PK dBµV/m	Limit-QP dBµV/m	Limit-AV dBµV/m	ANT	Verdict
1	1165.0330	42.45	N.A	N.A	74.00	N.A	54.00	V	PASS
2	1331.0662	41.42	N.A	N.A	74.00	N.A	54.00	>	PASS
3	1995.1990	44.47	N.A	N.A	74.00	N.A	54.00	>	PASS
4	2658.3317	47.97	N.A	N.A	74.00	N.A	54.00	>	PASS
5	3568.5137	43.17	N.A	N.A	74.00	N.A	54.00	>	PASS
6	5441.8884	43.30	N.A	N.A	74.00	N.A	54.00	V	PASS





No.	Fre.	PK	QP	AV	Limit-PK	Limit-QP	Limit-AV	ANT	Verdict
140.	MHz	dBµV/m	dBµV/m	dBµV/m	dBµV/m	dBµV/m	dBµV/m	AIII	verdict
1	37.3727	26.55	N.A	N.A	N.A	40.00	N.A	Н	PASS
2	55.3195	26.74	N.A	N.A	N.A	40.00	N.A	Н	PASS
3	90.4370	22.04	N.A	N.A	N.A	43.50	N.A	Н	PASS
4	284.5535	40.84	N.A	N.A	N.A	46.00	N.A	Н	PASS
5	480.0280	33.13	N.A	N.A	N.A	46.00	N.A	Н	PASS
6	960.0320	42.19	N.A	N.A	N.A	54.00	N.A	Н	PASS





No.	Fre.	PK	QP	AV	Limit-PK	Limit-QP	Limit-AV	ANT	Verdict
NO.	MHz	dBµV/m	dBμV/m	dBµV/m	dBµV/m	dBµV/m	dBµV/m	AINI	veruici
1	1162.0324	43.26	N.A	N.A	74.00	N.A	54.00	Н	PASS
2	1333.0666	41.83	N.A	N.A	74.00	N.A	54.00	Н	PASS
3	2160.2320	43.33	N.A	N.A	74.00	N.A	54.00	Н	PASS
4	2666.3333	47.92	N.A	N.A	74.00	N.A	54.00	Н	PASS
5	3992.5985	42.78	N.A	N.A	74.00	N.A	54.00	Н	PASS
6	5417.8836	43.05	N.A	N.A	74.00	N.A	54.00	Н	PASS



# **Annex B 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	9kHz-150kHz	±3.3dB
a Level of Confidence of	150kHz-30MHz	±2.8dB
95%(U=2Uc(y))		

#### Uncertainty of Radiated Emission Measurement

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





# **Annex C Testing Laboratory Information**

#### 1. Identification of the Responsible Testing Laboratory

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

#### 2. Identification of the Responsible Testing Location

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

#### 3. Accreditation Certificate

Accredited Testing	The FCC designation number is CN1192.			
Laboratory:	Test firm registration number is 226174.			
	(Shenzhen Morlab Communications Technology Co., Ltd.)			

#### 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	SCHWARZBE CK	2019/5/24	2022/5/23
Horn Antenna	BBHA 9120D	01774	SCHWARZBE CK	2019/7/26	2022/7/25
Horn Antenna	BBHA9170	BBHA9170#7 74	SCHWARZBE CK	2019/7/26	2022/7/25
Receiver	N9038A	MY56400093	KEYSIGHT	2021/3/9	2022/3/8
Signal Analyzer	N9020A	MY56060145	Agilent	2021/7/26	2022/7/25
6db Attenuator	BW-N6W5+	E191001	Mini-circuits	2021/10/18	2022/10/17
Preamplifier	S020180L320 3	61171/61172	LUCIX CORP.	2021/7/16	2022/7/15
Preamplifier	\$10M100L380 2	46732	LUCIX CORP.	2021/7/16	2022/7/15
Preamplifier	S150300L320 2	71136	LUCIX CORP.	2021/7/16	2022/7/15
Receiver	ESPI	101052	R&S	2021/7/16	2022/7/15
LISN	NSLK 8127	8127449	Schwarzbeck	2021/3/9	2022/3/8
10dB Pulse Limiter	VTSD 9561-F	VTSD 9561 F-B #206	SCHWARZBE CK	2021/7/21	2022/7/20

### 5. Ancillary Equipment Utilized

Description	Manufacturer	Model	Serial No.
PC	DELL	VOSTRO 5370	DF2DR A01 DPC
PC Adapter	DELL	LA45NM140	OKXTTW
Earphone	VIVO	N/A	N/A

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