

TEST REPORT

- **APPLICANT** : BLU Products, Inc.
- **PRODUCT NAME** : Tablet
- MODEL NAME : M8L PLUS
- BRAND NAME : BLU
- FCC ID : YHLBLUM8LP
- STANDARD(S) : 47 CFR Part 15 Subpart B
- **RECEIPT DATE** : 2021-06-02
- **TEST DATE** : 2021-06-07 to 2021-06-24
- **ISSUE DATE** : 2021-07-14

Hesinuo

Edited by:

Approved by:

He Sinuo(Rapporteur)

Xiao Xiona Xiao Xiong(Supervisor)

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Shenzhen Morlab Communications Technology Co., Ltd. FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block67, BaoAn District, ShenZhen ,GuangDong Province, P. R. China

 Tel: 86-755-36698555
 Fax: 86-755-36698525

 Http://www.morlab.cn
 E-mail: service@morlab.cr





DIRECTORY

1. Technical Information	3
1.1. Applicant and Manufacturer Information	3
1.2. Equipment Under Test (EUT) Description	3
2. Test Results	5
2.1. Applied Reference Documents	5
2.2. EUT Setup and Operating Conditions	5
3. 47 CFR Part 15B Requirements	7
3.1. Conducted Emission	7
3.2. Radiated Emission 11	L
Annex A Test Uncertainty 18	3
Annex B Testing Laboratory Information 19	Э

	Change History				
Issue	Date	Reason for change			
1.0	2021-07-14	First edition			





1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	BLU Products, Inc.
Applicant Address:	10814 NW 33rd St # 100 Doral, FL 33172,USA
Manufacturer:	BLU Products, Inc.
Manufacturer Address:	10814 NW 33rd St # 100 Doral, FL 33172,USA

1.2. Equipment Under Test (EUT) Description

ProductName:	Tablet
EUT No.:	6#
Hardware Version:	E863C_V3.0
Software Version:	BLU_M0210WW_V11.0.G.02.05-GENERIC_02-07-2021
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 7: 2500 MHz ~ 2570 MHz
	LTE Band 12: 699 MHz ~ 716 MHz
	LTE Band 17: 704 MHz ~ 716 MHz
	LTE Band 66: 1710 MHz ~ 1780 MHz
	Bluetooth4.2: 2402 MHz ~ 2480 MHz
	802.11b/g/n: 2412 MHz ~ 2472 MHz
Rx Frequency:	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



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E-mail: service@morlab.cn

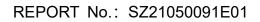


LTE Band 12: 729 MHz ~ 746 MHz LTE Band 17: 734 MHz ~ 746 MHz LTE Band 66: 2110 MHz ~ 2200 MHz Bluetooth4.2: 2402 MHz ~ 2480 MHz 802.11b/g/n: 2412 MHz ~ 2472 MHz GPS: 1559 MHz ~ 1610 MHz FM: 87.5 MHz~108MHzAncillary Equipment:BatteryBrand Name:BLU Model No.:C1021003430P Serial No.:C1021003430PSerial No.:(N/A, marked #1 by test site) Capacity:Capacity:4300mAhRated Voltage:3.8VCharge Limit:4.35VManufacturer:Dongguan Andefeng Battery Co., Ltd.AC AdapterBLUBrand Name:BLUModel No.:US-SJ-1500Serial No.:(N/A, marked #1 by test site)Charge Limit:4.35VManufacturer:Dongguan Andefeng Battery Co., Ltd.AC AdapterBrand Name:Brand Name:BLUModel No.:US-SJ-1500Serial No.:(N/A, marked #1 by test site)Capacity:4300mAh								
LTE Band 66: 2110 MHz ~ 2200 MHz Bluetooth4.2: 2402 MHz ~ 2480 MHz 802.11b/g/n: 2412 MHz ~ 2472 MHz GPS: 1559 MHz ~ 1610 MHz FM: 87.5 MHz~108MHz Ancillary Equipment: Battery Brand Name: BLU Model No.: C1021003430P Serial No.: (N/A, marked #1 by test site) Capacity: 4300mAh Rated Voltage: 3.8V Charge Limit: 4.35V Manufacturer: Dongguan Andefeng Battery Co., Ltd. AC Adapter Brand Name: BLU Model No.: US-SJ-1500 Serial No.: (N/A, marked #1 by test site) Rated Input: 100-240V~50/60Hz, 0.3A Rated Output: 5V=1500mA		LTE Band 12: 729	9 MHz ~ 746 MHz					
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802.11b/g/n: 2412 MHz ~ 2472 MHz GPS: 1559 MHz ~ 1610 MHz FM: 87.5 MHz~108MHzAncillary Equipment:BatteryBrand Name:BLU Model No.:C1021003430P Serial No.:C1021003430PSerial No.:(N/A, marked #1 by test site) Capacity:Capacity:4300mAh Rated Voltage:Rated Voltage:3.8V Charge Limit:Charge Limit:4.35V Manufacturer:Brand Name:BLU Model No.:Model No.:US-SJ-1500 Serial No.:Kated Input:100-240V~50/60Hz, 0.3A Rated Output:SV=1500mA		LTE Band 66: 211	0 MHz ~ 2200 MHz					
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Model No.: US-SJ-1500 Serial No.: (N/A, marked #1 by test site) Rated Input: 100-240V~50/60Hz, 0.3A Rated Output: 5V=1500mA		AC Adapter						
Serial No.:(N/A, marked #1 by test site)Rated Input:100-240V~50/60Hz, 0.3ARated Output:5V=1500mA		Brand Name:	BLU					
Rated Input: 100-240V~50/60Hz, 0.3A Rated Output: 5V=1500mA		Model No.:	US-SJ-1500					
Rated Output: 5V=1500mA		Serial No.:	(N/A, marked #1 by test site)					
		Rated Input:	100-240V~50/60Hz, 0.3A					
Manufacturer: Shenzhen Baijunda Electronic Co., Ltd		Rated Output:	5V=1500mA					
		Manufacturer:	Shenzhen Baijunda Electronic Co., Ltd					

Note:

1. For a more detailed description, please refer to specification or user's manual supplied by the applicant and/or manufacturer.







2.1. Applied Reference Documents

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

No.	Identity	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	2021.06.07	Wu Runfeng	PASS	No deviation
2	15.109	Radiated Emission	2021.06.24	Yang Jie	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

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

Test Mod	des	6
Mode 1	:	GSM850 Idle + Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging from
		Adapter) + Earphone + Adapter + SIM Card
Mode 2	:	GSM1900 Idle + Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging from
		Adapter) + Earphone + Adapter + SIM Card
Mode3	:	WCDMA Band II Idle + Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging
		from Adapter) + Earphone + Adapter + SIM Card
Mode 4	:	LTE Band 4 Idle + Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging from
		Adapter) + Earphone + Adapter + SIM Card
Mode 5	:	WCDMA Band IV Idle + Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging
		from Adapter) + Earphone + Adapter + SIM Card
Mode 6	:	WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging
		from Adapter) + Earphone + Adapter + SIM Card
Mode 7	:	LTE Band 2 Idle+ Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging from
		Adapter) + Earphone + Adapter + SIM Card
Mode 8	:	LTE Band 5Idle+ Bluetooth Idle + WLAN Idle + Camera + Battery + USB
		Cable(Charging from Adapter) + Earphone + Adapter + SIM Card
Mode 9	:	LTE Band 7 Idle + Bluetooth Idle + WLAN Idle + MP4 + Battery + USB
		Cable(Charging from Adapter) + Earphone + Adapter + SIM Card
Mode 10	:	LTE Band 12 Idle + Bluetooth Idle + WLAN Idle + PC(data transfer) + Battery +
		SIM Card + PC Adapter + Earphone
Mode 12	:	LTE Band 17 Idle + Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging from
		Adapter) + Earphone + Adapter + GPS Rx
Mode 13	:	LTE Band 66 Idle + Bluetooth Idle + WLAN Idle + Battery + USB Cable(Charging from
		Adapter) + Earphone + Adapter + SIM Card + FM Rx
Remark:		
The abov	/e	test mode in boldface (Mode 9) was the worst case of conducted emission test, only
		a of these modes were reported. The above test mode in boldface (Mode 10) was the
worst cas	se	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



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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 50μ H/50 Ω line impedance stabilization network (LISN).

Frequency 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:

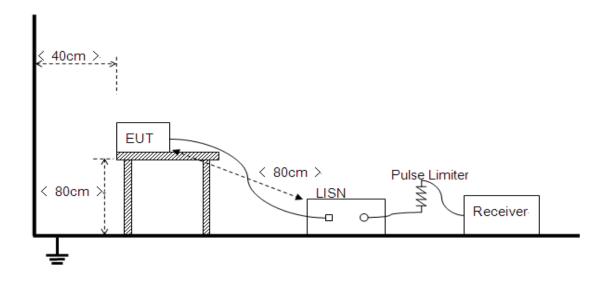
a) The limit subjects to the Class B digital device.

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.





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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.

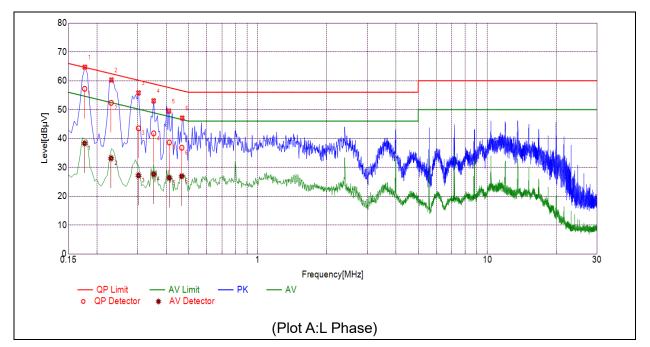
The power strip or extension cord has been investigated to make sure that the LISN integrity inma intained with respect to the impedance characteristics as prescribed in ANSI C63.4-2014 at Clause 4.3.

3.1.3. Test Result

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.



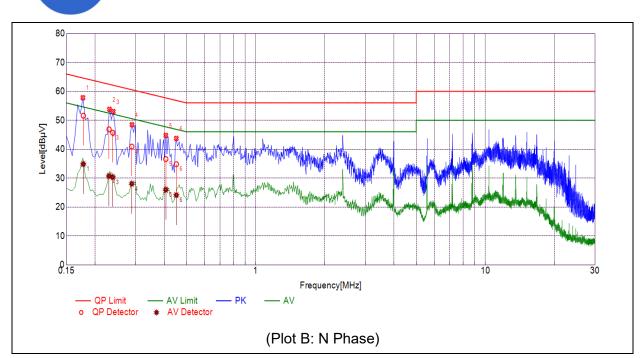




A. Test Plot and Suspicious Points:

NO.	Fre.	Emission L	evel (dBµV)	Limit (o	dBμV)	Dowor line	Verdict	
NU.	(MHz)	Quai-peak	Average	Quai-peak	Average	Power-line	verdict	
1	0.1765	57.20	38.30	64.65	54.65	Line	PASS	
2	0.2302	52.36	33.15	62.44	52.44		PASS	
3	0.3029	43.53	27.15	60.16	50.16		PASS	
4	0.3527	41.76	27.64	58.90	48.90		PASS	
5	0.4124	38.60	26.38	57.60	47.60		PASS	
6	0.4674	36.79	26.92	56.56	46.56		PASS	





NO.	Fre.	Emission L	evel (dBµV)	Limit (o	dBμV)	Dowor line	Verdict
NO.	(MHz)	Quai-peak	Average	Quai-peak	Average	Power-line	veruici
1	0.1777	51.57	34.85	64.59	54.59	Neutral	PASS
2	0.2299	46.85	30.73	62.45	52.45		PASS
3	0.2388	45.69	30.31	62.14	52.14		PASS
4	0.2890	40.90	28.03	60.55	50.55		PASS
5	0.4063	36.58	25.97	57.72	47.72		PASS
6	0.4515	34.80	24.10	56.85	46.85		PASS



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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 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 indB μ V/m is calculated by 20log Emission Level(μ 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:

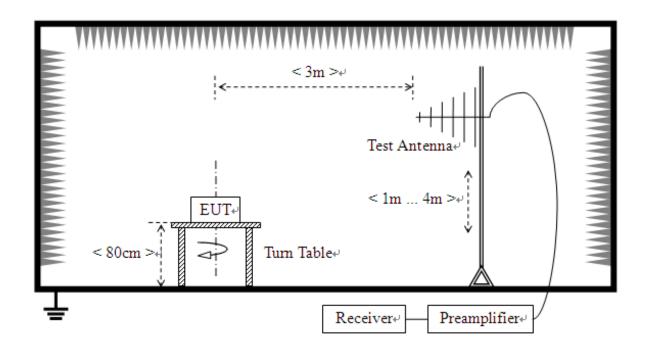
Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measure- ment range (MHz)
Below 1.705 1.705–108 108–500 500–1000 Above 1000	30. 1000. 2000. 5000. 5th harmonic of the highest frequency or 40 GHz, whichever is lower.



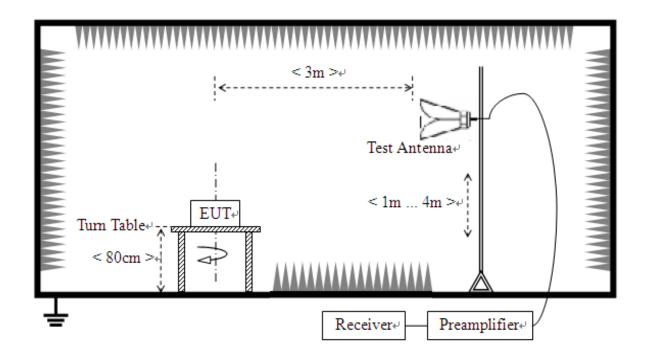


3.2.3. Test Setup

1) For radiated emissions from 30MHz to1GHz



2) For radiated emissions above 1GHz





Shenzhen Morlab Communications Technology Co., Ltd. FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block67, BaoAn District, ShenZhen ,GuangDong Province, P. R. China
 Tel: 86-755-36698555
 Fax: 86-755-36698525

 Http://www.morlab.cn
 E-mail: service@morlab.cn



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 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

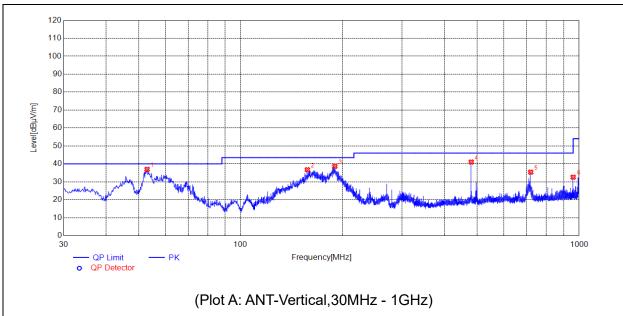
The maximum radiated emission is searched using PK, QP and AV detectors; the emission levels more than the limits, and that have narrow margins from the limits will be re-measured with AV and QP detectors. Both the vertical and the horizontal polarizations of the Test Antenna are considered to perform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

The amplitude of emissions (6GHz-13.5GHz)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	52.8943	36.98	N.A	N.A	N.A	40.00	N.A	V	PASS
2	157.3737	36.74	N.A	N.A	N.A	43.50	N.A	V	PASS
3	189.6780	38.63	N.A	N.A	N.A	43.50	N.A	V	PASS
4	480.0280	41.04	N.A	N.A	N.A	46.00	N.A	V	PASS
5	719.0599	35.39	N.A	N.A	N.A	46.00	N.A	V	PASS
6	960.0320	32.59	N.A	N.A	N.A	54.00	N.A	V	PASS

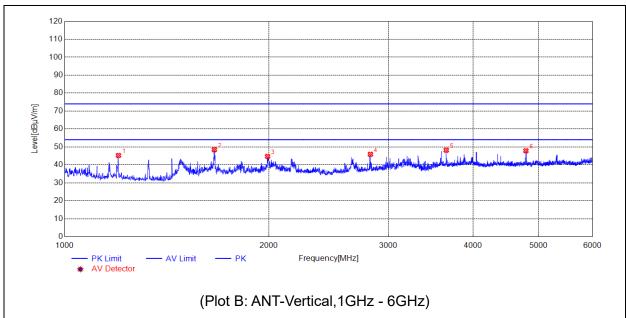


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Fax: 86-755-36698525



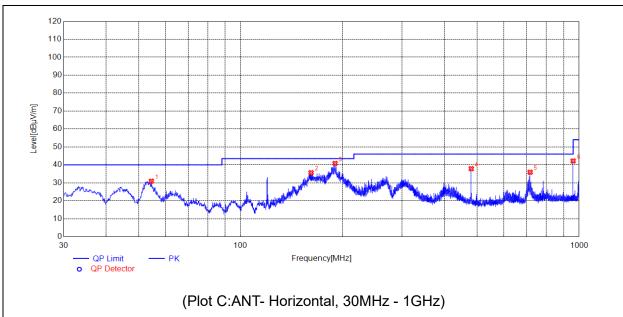


No.	Fre. MHz	Pk dBµV/m	QP dBµV/m	AV dBµV/m	Limit-PK dBµV/m	Limit-QP dBµV/m	Limit-AV dBµV/m	ANT	Verdict
1	1200.0400	45.24	N.A	N.A	74.00	N.A	54.00	V	PASS
2	1662.1324	48.46	N.A	N.A	74.00	N.A	54.00	V	PASS
3	1991.1982	44.73	N.A	N.A	74.00	N.A	54.00	V	PASS
4	2823.3647	45.90	N.A	N.A	74.00	N.A	54.00	V	PASS
5	3653.5307	48.17	N.A	N.A	74.00	N.A	54.00	V	PASS
6	4788.7578	47.86	N.A	N.A	74.00	N.A	54.00	V	PASS



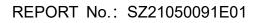
Shenzhen Morlab Communications Technology Co., Ltd. FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block67, BaoAn District, ShenZhen ,GuangDong Province, P. R. China



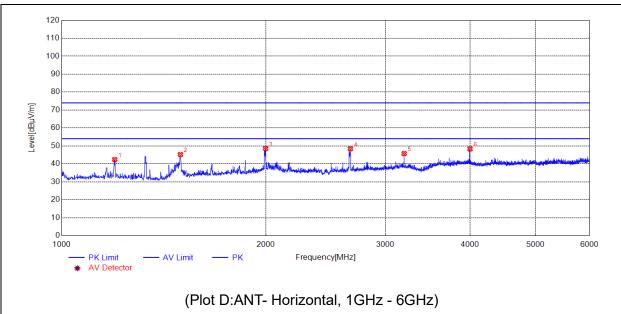


No.	Fre. MHz	Pk dBµV/m	QP dBµV/m	AV dBµV/m	Limit-PK dBµV/m	Limit-QP dBµV/m	Limit-AV dBµV/m	ANT	Verdict
1	54.4464	30.91	N.A	N.A	N.A	40.00	N.A	Н	PASS
2	161.3511	35.63	N.A	N.A	N.A	43.50	N.A	Н	PASS
3	189.9690	40.82	N.A	N.A	N.A	43.50	N.A	Н	PASS
4	480.0280	37.89	N.A	N.A	N.A	46.00	N.A	Н	PASS
5	716.4406	35.89	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. 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	1197.0394	42.44	N.A	N.A	74.00	N.A	54.00	Н	PASS
2	1496.0992	45.20	N.A	N.A	74.00	N.A	54.00	н	PASS
3	1998.1996	48.59	N.A	N.A	74.00	N.A	54.00	Н	PASS
4	2665.3331	48.39	N.A	N.A	74.00	N.A	54.00	Н	PASS
5	3199.4399	45.77	N.A	N.A	74.00	N.A	54.00	Н	PASS
6	4000.6001	48.34	N.A	N.A	74.00	N.A	54.00	Н	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	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 B Testing Laboratory Information

1. Identification of the Responsible Testing Laboratory

Laboratory Name:	Morlab Laboratory of Shenzhen Morlab Communications
	Technology Co., Ltd.
Laboratory Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang
	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:	Morlab Laboratory of Shenzhen Morlab Communications		
Nallie.	Technology Co., Ltd.		
	FL.3, Building A, FeiYang Science Park, No.8 LongChang		
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
JS32-RE	Version 2.0.2.0	Tonscend
TS+ -[JS32-CE]	Version2.5.0.0	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
Receiver	N9038A	MY56400093	KEYSIGHT	2021/3/9	2022/3/8
Horn Antenna	BBHA 9120D	9120D-963	SCHWARZBE CK	2019/5/24	2022/5/23
6db Attenuator	BW-N6W5+	E191001	Mini-circuits	2020/10/20	2021/10/19
Preamplifier	S020180L320 3	61171/61172	LUCIX CORP.	2020/7/21	2021/7/20
Preamplifier	S10M100L380 2	46732	LUCIX CORP.	2020/7/21	2021/7/20
Receiver	ESPI	101052	R&S	2020/7/21	2021/7/20
LISN	NSLK 8127	8127449	Schwarzbeck	2021/3/9	2022/3/8
10dB Pulse Limiter	VTSD 9561-F	VTSD 9561 F-B #206	SCHWARZBE CK	2020/7/24	2021/7/23

6. Ancillary Equipment Utilized

Description	Manufacturer	Model	Serial No.
PC	Made in China	Vostro5370	N/A
PC Adapter	Lite-On Technology Co., Ltd.	LA45NM140	N/A

- END OF REPORT

