

# **TEST REPORT**

- **APPLICANT** : Reliance Communications LLC
- PRODUCT NAME : Orbic Turbo 4G MHS
- MODEL NAME : RC440L
- BRAND NAME : Orbic
- FCC ID : 2ABGH-RC440L
- STANDARD(S) : 47 CFR Part 15 Subpart B
- **RECEIPT DATE** : 2021-11-24
- **TEST DATE** : 2021-12-15 to 2021-12-16
- **ISSUE DATE** : 2022-01-26

Edited by:

Yu Xiaolin(Rapporteur)

n Xiaolin

Approved by:

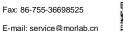
Xiao Xi<u>ona</u> Xiao Xiong(Supervisor)

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Change History							
Version	Version Date Reason for change						
1.0	2022-01-26	First edition					





**Note:** Provide by applicant.

## **1.1. Applicant and Manufacturer Information**

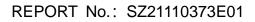
Applicant:	Reliance Communications LLC			
Applicant Address:	91 Colin Drive, Unit 1, HOLBROOK, New York 11741, United			
	States			
Manufacturer:	Unimaxcomm			
Manufacturer Address:	Room 602, Floor 6th, Building B, Software Park T3, Hi-Tech Park			
	South, Nanshan District, Shenzhen, P.R. China			

## **1.2. Equipment Under Test (EUT) Description**

Product Name:	Orbic Turbo 4G MHS					
EUT No.:	3#					
Hardware Version:	V1.0					
Software Version:	ORB440L_v1.0.1_BVT-NA					
Tx Frequency:	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 13: 777 MHz ~ 787 MHz					
	LTE Band 14: 788 MHz ~ 798 MHz					
	LTE Band 17: 704 MHz ~ 716 MHz					
	LTE Band 25: 1850 MHz ~ 1915 MHz					
	LTE Band 26: 814 MHz ~ 849 MHz					
	LTE Band 41: 2496 MHz ~ 2690 MHz					
	LTE Band 48: 3550MHz–3700MHz					
	LTE Band 66: 1710 MHz ~ 1780 MHz					
	LTE Band 71: 663 MHz ~ 698 MHz					
	802.11b/g/n: 2412 MHz ~ 2462 MHz					
	802.11a/ac/n: 5150 MHz ~ 5250 MHz;5745MHz ~ 5825 MHz					
Rx Frequency:	WCDMA Band II: 1930 MHz ~ 1990 MHz					
	WCDMA Band IV: 2110 MHz ~ 2155 MHz					



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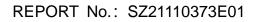


	WCDMA Band V:	869 MHz ~ 894 MHz				
	LTE Band 2: 1930	) MHz ~ 1990 MHz				
	LTE Band 4: 2110	) MHz ~ 2155 MHz				
	LTE Band 5: 869	MHz ~ 894 MHz				
	LTE Band 7: 2620	) MHz ~ 2690 MHz				
	LTE Band 12: 729	_				
	LTE Band 13: 746					
	LTE Band 14: 758 MHz ~ 768 MHz					
	LTE Band 17: 734	-				
		30 MHz ~ 1995 MHz				
	LTE Band 26: 859					
	LTE Band 29:717	-				
		06 MHz ~ 2690 MHz				
	LTE Band 48: 355	0 MHz ~ 2200MHz				
	LTE Band 71: 617 MHz ~ 652 MHz					
	802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/ac/n: 5180 MHz ~ 5240 MHz;5745MHz ~ 5825 MHz					
Ancillary Equipment:						
Ancillary Equipment:	AC Adapter Brand Name:	N/A				
Ancillary Equipment:	AC Adapter	·				
Ancillary Equipment:	AC Adapter Brand Name:	N/A TPA-5950100UU				
Ancillary Equipment:	AC Adapter Brand Name: Model No.:	N/A				
Ancillary Equipment:	AC Adapter Brand Name: Model No.: Serial No.:	N/A TPA-5950100UU (N/A, marked #1 by test site)				
Ancillary Equipment:	AC Adapter Brand Name: Model No.: Serial No.: Rated Input:	N/A TPA-5950100UU (N/A, marked #1 by test site) 100-240V~50/60Hz,0.2A				
Ancillary Equipment:	AC Adapter Brand Name: Model No.: Serial No.: Rated Input: Rated Output:	N/A TPA-5950100UU (N/A, marked #1 by test site) 100-240V~50/60Hz,0.2A 5V=1A				
Ancillary Equipment:	AC Adapter Brand Name: Model No.: Serial No.: Rated Input: Rated Output: Manufacturer:	N/A TPA-5950100UU (N/A, marked #1 by test site) 100-240V~50/60Hz,0.2A 5V=1A				
Ancillary Equipment:	AC Adapter Brand Name: Model No.: Serial No.: Rated Input: Rated Output: Manufacturer: Battery	N/A TPA-5950100UU (N/A, marked #1 by test site) 100-240V~50/60Hz,0.2A 5V1A Shenzhen kingfulin Technology Co.,Ltd				
Ancillary Equipment:	AC Adapter Brand Name: Model No.: Serial No.: Rated Input: Rated Output: Manufacturer: Battery Brand Name:	N/A TPA-5950100UU (N/A, marked #1 by test site) 100-240V~50/60Hz,0.2A 5V1A Shenzhen kingfulin Technology Co.,Ltd Orbic				
Ancillary Equipment:	AC Adapter Brand Name: Model No.: Serial No.: Rated Input: Rated Output: Manufacturer: Battery Brand Name: Model No.:	N/A TPA-5950100UU (N/A, marked #1 by test site) 100-240V~50/60Hz,0.2A 5V1A Shenzhen kingfulin Technology Co.,Ltd Orbic BTE-3401				
Ancillary Equipment:	AC Adapter Brand Name: Model No.: Serial No.: Rated Input: Rated Output: Manufacturer: Battery Brand Name: Model No.: Serial No.:	N/A TPA-5950100UU (N/A, marked #1 by test site) 100-240V~50/60Hz,0.2A 5V=1A Shenzhen kingfulin Technology Co.,Ltd Orbic BTE-3401 (N/A, marked #1 by test site)				
Ancillary Equipment:	AC Adapter Brand Name: Model No.: Serial No.: Rated Input: Rated Output: Manufacturer: Battery Brand Name: Model No.: Serial No.: Capacity:	N/A TPA-5950100UU (N/A, marked #1 by test site) 100-240V~50/60Hz,0.2A 5V1A Shenzhen kingfulin Technology Co.,Ltd Orbic BTE-3401 (N/A, marked #1 by test site) 3400mAh				
Ancillary Equipment:	AC Adapter Brand Name: Model No.: Serial No.: Rated Input: Rated Output: Manufacturer: Battery Brand Name: Model No.: Serial No.: Capacity: Rated Voltage:	N/A TPA-5950100UU (N/A, marked #1 by test site) 100-240V~50/60Hz,0.2A 5V1A Shenzhen kingfulin Technology Co.,Ltd Orbic BTE-3401 (N/A, marked #1 by test site) 3400mAh 3.8V				

#### 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 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	2021-12-15	Yang Lian	PASS	No deviation
2	15.109	Radiated Emission	2021-12-16	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.





#### **EUT Setup and Operating Conditions** 2.2.

Test Item					
Radiated Emission					
Mode 1	:	EUT+Adapter Charging+Normal Operating Mode+WCDMA Idle+2.4G WIFI Idle			
Mode 2	:	EUT+Adapter Charging+Normal Operating Mode+LTE Band Idle+5G WIFI Idle			
Conducted Emission					
Mode 1	:	EUT+Adapter Charging+Normal Operating Mode+WCDMA Idle+2.4G WIFI Idle			
Mode 2	:	EUT+Adapter Charging+Normal Operating Mode+LTE Band Idle+5G WIFI Idle			

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 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	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:

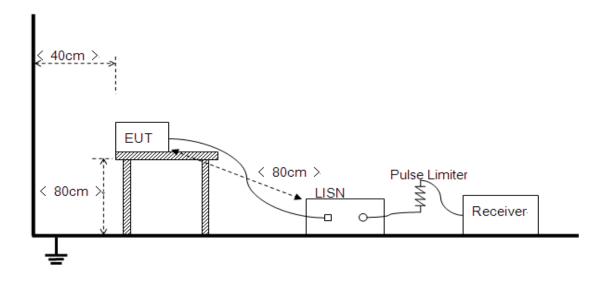
a) The limit subjects to the Class B digital device.

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 0.4maway 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.

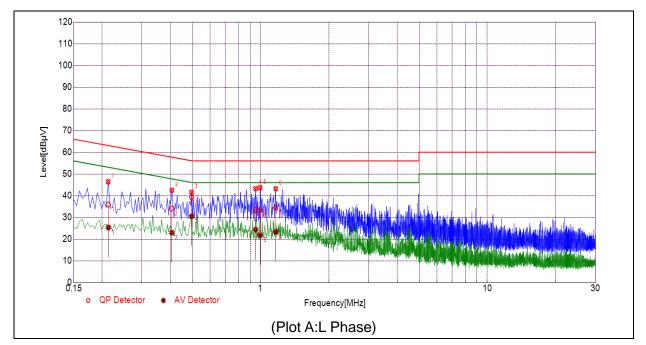
The power strip or extension cord has been investigated to make sure that the LISN integrity inma intained with respect to the impedance characteristics as prescribed in ANSI C63.4-2014 at Clause 4.3.

#### 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.





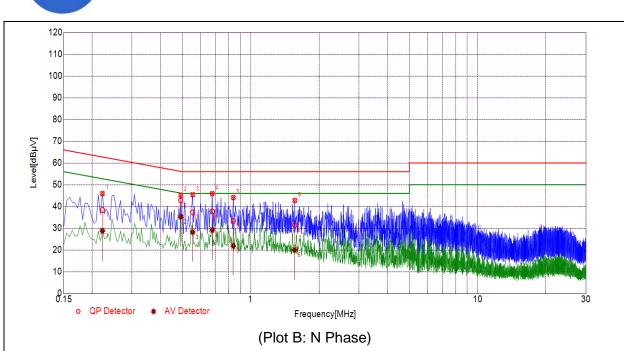


#### A. Test Plot and Suspicious Points:

	Fre.	Emission L	evel (dBµV)	Limit (c	dBμV)	Dowor line	Verdict
NO.	NO. (MHz) G	Quai-peak	Average	Quai-peak	Average	Power-line	verdict
1	0.2132	35.90	25.27	63.08	53.08	Line	PASS
2	0.4062	34.09	22.95	57.72	47.72		PASS
3	0.4965	39.32	30.49	56.06	46.06		PASS
4	0.9515	33.36	24.30	56.00	46.00		PASS
5	0.9965	33.25	21.71	56.00	46.00		PASS
6	1.1666	34.40	23.22	56.00	46.00		PASS







NO.	Fre.	Emission L	evel (dBµV)	Limit (d	dBμV)	Dowor line	Verdict
NO.	O. (MHz) Qua	Quai-peak	Average	Quai-peak	Average	Power-line	verdict
1	0.2221	38.35	28.79	62.74	52.74	- Neutral	PASS
2	0.4916	42.74	35.28	56.14	46.14		PASS
3	0.5548	37.24	28.23	56.00	46.00		PASS
4	0.6769	37.73	29.11	56.00	46.00		PASS
5	0.8380	33.36	21.91	56.00	46.00		PASS
6	1.5615	31.38	19.97	56.00	46.00		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 FCCsection 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 $\mu$ V/m is calculated by 20log Emission Level( $\mu$ 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:

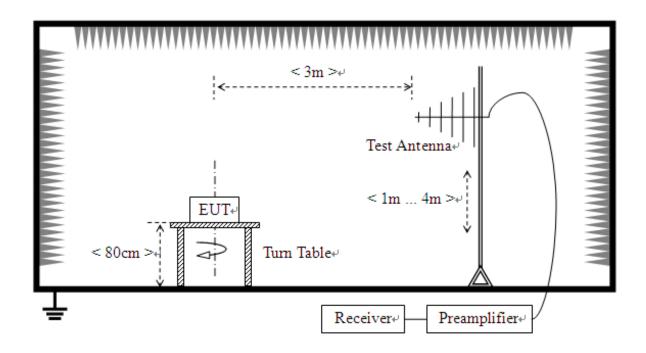
Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measure- ment range (MHz)
Below 1.705 1.705–108 108–500 500–1000 Above 1000	30. 1000. 2000. 5000. 5th harmonic of the highest frequency or 40 GHz, whichever is lower.



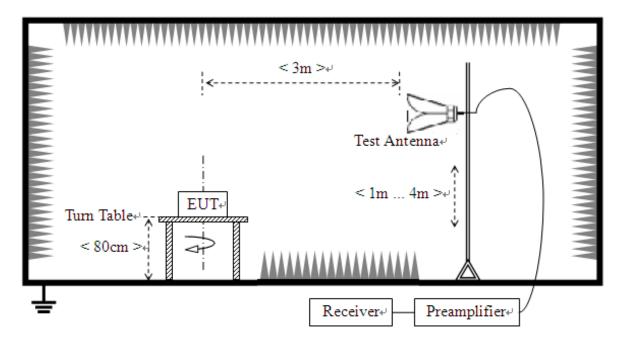


#### 3.2.3. Test Setup

1) For radiated emissions from 30MHz to1GHz



2) For radiated emissions above 1GHz





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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 3m away from the Test Antenna, which is mounted onavariable-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

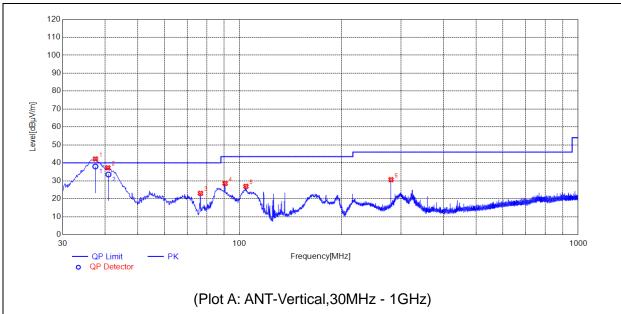
The maximum radiated emission is searched using PK, QP and AV detectors; the emission levels more than the limits, and that have narrow margins from the limits will be re-measured with AV and QP detectors. Both the vertical and the horizontal polarizations of the Test Antenna are considered to perform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

The amplitude of emissions (6GHz-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.







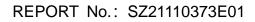
No.	Fre. MHz	PK dBµV/m	QP dBµV/m	AV dBµV/m	Limit-PK dBµV/m	Limit-QP dBµV/m	Limit-AV dBµV/m	ANT	Verdict
1	37.4697	42.19	37.98	N.A.	N.A.	40.00	N.A.	V	PASS
2	40.7681	37.25	33.54	N.A.	N.A.	40.00	N.A.	V	PASS
3	76.5647	23.04	N.A.	N.A.	N.A.	40.00	N.A.	V	PASS
4	90.5341	28.56	N.A.	N.A.	N.A.	43.50	N.A.	V	PASS
5	104.3094	26.92	N.A.	N.A.	N.A.	43.50	N.A.	V	PASS
6	279.9940	30.66	N.A.	N.A.	N.A.	46.00	N.A.	V	PASS



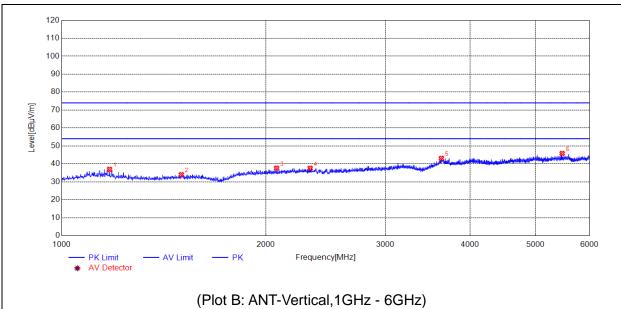
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No.	Fre. MHz	PK dBµV/m	QP dBµV/m	AV dBµV/m	Limit-PK dBµV/m	Limit-QP dBµV/m	Limit-AV dBµV/m	ANT	Verdict
1	1176.0352	36.98	N.A.	N.A.	74.00	N.A.	54.00	V	PASS
2	1501.1002	34.02	N.A.	N.A.	74.00	N.A.	54.00	V	PASS
3	2074.2148	37.63	N.A.	N.A.	74.00	N.A.	54.00	V	PASS
4	2324.2649	37.60	N.A.	N.A.	74.00	N.A.	54.00	V	PASS
5	3630.5261	43.10	N.A.	N.A.	74.00	N.A.	54.00	V	PASS
6	5470.8942	45.83	N.A.	N.A.	74.00	N.A.	54.00	V	PASS

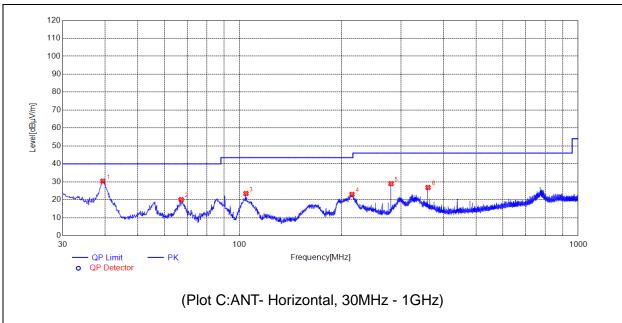


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No.	Fre. MHz	PK dBµV/m	QP dBµV/m	AV dBµV/m	Limit-PK dBµV/m	Limit-QP dBµV/m	Limit-AV dBµV/m	ANT	Verdict
1	39.4099	30.37	N.A.	N.A.	N.A.	40.00	N.A.	Н	PASS
2	67.1547	20.06	N.A.	N.A.	N.A.	40.00	N.A.	н	PASS
3	104.3094	23.48	N.A.	N.A.	N.A.	43.50	N.A.	Н	PASS
4	214.7065	23.00	N.A.	N.A.	N.A.	43.50	N.A.	Н	PASS
5	279.9940	29.00	N.A.	N.A.	N.A.	46.00	N.A.	н	PASS
6	360.0270	26.82	N.A.	N.A.	N.A.	46.00	N.A.	Н	PASS

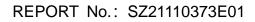


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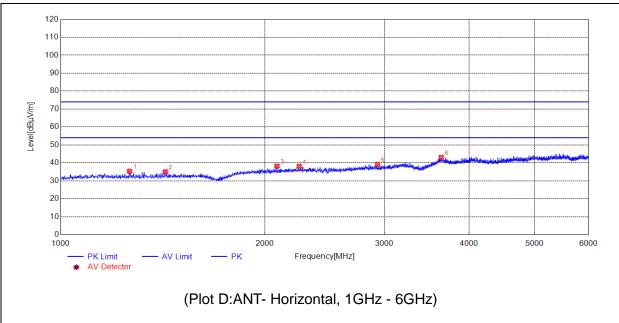
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No.	Fre. MHz	PK dBµV/m	QP dBµV/m	AV dBµV/m	Limit-PK dBµV/m	Limit-QP dBµV/m	Limit-AV dBµV/m	ANT	Verdict
1	1263.0526	35.32	N.A.	N.A.	74.00	N.A.	54.00	Н	PASS
2	1426.0852	35.05	N.A.	N.A.	74.00	N.A.	54.00	н	PASS
3	2084.2168	38.19	N.A.	N.A.	74.00	N.A.	54.00	н	PASS
4	2247.2495	38.08	N.A.	N.A.	74.00	N.A.	54.00	Н	PASS
5	2932.3865	39.22	N.A.	N.A.	74.00	N.A.	54.00	н	PASS
6	3640.5281	43.11	N.A.	N.A.	74.00	N.A.	54.00	Н	PASS



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## **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:	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:	Shenzhen Morlab Communications 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 2.5.0.6	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	9163-274	SCHWARZBECK	2019/5/24	2022/5/23
Horn Antenna	BBHA 9120D	01774	SCHWARZBECK	2019/7/26	2022/7/25
Receiver	N9038A	MY564000 93	KEYSIGHT	2021/3/9	2022/3/8
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
Preamplifier	S150300L3202	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	SCHWARZBECK	2021/7/21	2022/7/20

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

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