

JianYan Testing Group Shenzhen Co., Ltd.

Report No: JYTSZB-R12-2000043

FCC REPORT

Applicant: MAXWEST COMMUNICATION LIMITED

Address of Applicant: ROOM 1802B FORTRESS TOWER 250 KING'S ROAD,

NORTH POINT HONG KONG

Equipment Under Test (EUT)

Product Name: MOBILE PHONE

Model No.: VICE LTE

Trade mark: MAXWEST

FCC ID: 2ASP8VICELTE

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 14 Dec., 2020

Date of Test: 15 Dec., to 28 Dec., 2020

Date of report issued: 29 Dec., 2020

Test Result: PASS *

Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

^{*} In the configuration tested, the EUT complied with the standards specified above.





2 Version

Version No.	Date	Description
00	29 Dec., 2020	Original

	YT Young		
Tested by:	11 1000	Date:	29 Dec., 2020
-	Test Engineer		

Reviewed by:

| Date: 29 Dec., 2020 | Project Engineer





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4 Test Summary

Test Item	Section in CFR 47	Result
Conducted Emission	Part 15.107	Pass
Radiated Emission	Part 15.109	Pass

Remark:

- 1. Pass: The EUT complies with the essential requirements in the standard.
- 2. N/A: The EUT not applicable of the test item.

Test Method: ANSI C63.4:2014



5 General Information

5.1 Client Information

Applicant:	MAXWEST COMMUNICATION LIMITED
Address:	ROOM 1802B FORTRESS TOWER 250 KING'S ROAD, NORTH POINT HONG KONG
Manufacturer:	MAXWEST COMMUNICATION LIMITED
Address:	ROOM 1802B FORTRESS TOWER 250 KING'S ROAD, NORTH POINT HONG KONG

5.2 General Description of E.U.T.

Product Name:	MOBILE PHONE
Model No.:	VICE LTE
Power supply: Rechargeable Li-ion Battery DC3.7V-1400mAh	
AC adapter:	1. Model: VICELTE Input: AC100-240V, 50/60Hz Output: DC 5.0V, 500mA 2. Model: TPA-97H050055UW01 Input: AC100-240V, 50/60Hz, 0.15A Output: DC 5.0V, 550mA
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

5.3 Test Mode

Operating mode	Detail description
PC mode	Keep the EUT in Downloading mode(Worst case)
Charging+Recording mode	Keep the EUT in Charging+Recording mode
Charging+Playing mode	Keep the EUT in Charging+Playing mode
FM mode	Keep the EUT in FM receiver mode
GPS mode	Keep the EUT in GPS receiver mode

The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

5.4 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±1.60 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.16 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.20 dB (k=2)





5.5 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
DELL	PC OPTIPLEX7070		2J8XSZ2	DoC
DELL	MONITOR	MONITOR SE2018HR 3		DoC
DELL	KEYBOARD	YBOARD KB216d		DoC
DELL	MOUSE	MS116t1 N/A		DoC
HP	Printer	HP LaserJet P1007	VNFP409729	DoC

5.6 Related Submittal(s) / Grant (s)

This is an original grant, no related submittals and grants.

5.7 Description of Cable Used

Cable Type		Description	Length	From	То
	Detached headset cable	Unshielded	1.2m	EUT	Headset

5.8 Additions to, deviations, or exclusions from the method

Nο

5.9 Laboratory Facility

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

• FCC - Designation No.: CN1211

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

● ISED - CAB identifier.: CN0021

The 3m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

● A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

5.10 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.110~116, Building B, Jinyuan Business Building, Xixiang Road,

Bao'an District, Shenzhen, Guangdong, China Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info@ccis-cb.com, Website: http://www.ccis-cb.com





5.11 Test Instruments list

Radiated Emission:	Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
3m SAC	SAEMC	9m*6m*6m	966	07-22-2020	07-21-2021	
Loop Antenna	SCHWARZBECK	FMZB1519B	00044	03-07-2020	03-06-2021	
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-07-2020	03-06-2021	
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-07-2020	03-06-2021	
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2020	06-21-2021	
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-18-2020	11-17-2021	
EMI Test Software	AUDIX	E3	\	/ersion: 6.110919	b	
Pre-amplifier	HP	8447D	2944A09358	03-07-2020	03-06-2021	
Pre-amplifier	CD	PAP-1G18	11804	03-07-2020	03-06-2021	
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-05-2020	03-04-2021	
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-18-2020	11-17-2021	
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-05-2020	03-04-2021	
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2020	03-06-2021	
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2020	03-06-2021	
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2020	03-06-2021	

Conducted Emission:						
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-05-2020	03-04-2021	
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-05-2020	03-04-2021	
LISN	CHASE	MN2050D	1447	03-05-2020	03-04-2021	
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2020	07-20-2021	
Cable	HP	10503A	N/A	03-05-2020	03-04-2021	
EMI Test Software	AUDIX	E3	Version: 6.110919b			





6 Test results and Measurement Data

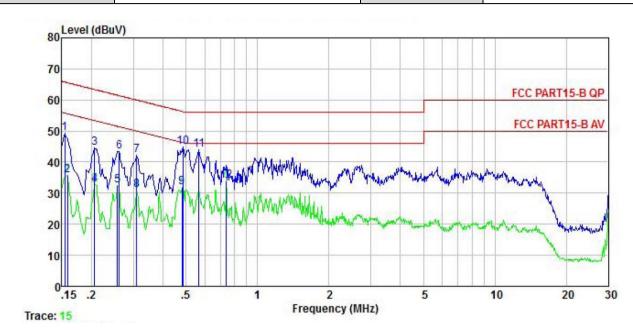
6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.107					
Test Frequency Range:	150kHz to 30MHz					
Class / Severity:	Class B					
Receiver setup:	RBW=9kHz, VBW=30kHz					
Limit:	Frequency range (MHz)	Limit	(dBµV)			
	. , , ,	Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	0.5-30	60	50			
	* Decreases with the logarithm	of the frequency.				
Test setup:	Reference Plane					
Took was and drugs	Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	Filter — AC power				
Test procedure	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). 					
	3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4(latest version) on conducted measurement.					
Test Instruments:	Refer to section 5.11 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Pass					



Measurement data:

Product name:	MOBILE PHONE	Product model:	VICE LTE
Test by:	YT	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



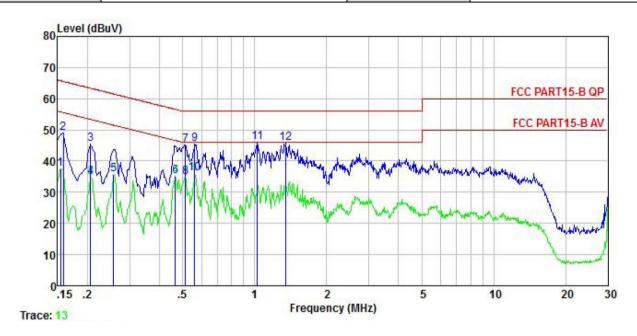
	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu₹	<u>dB</u>	<u>ā</u> B	dB	dBu₹	dBu∇	<u>ab</u>	
1	0.154	39.03	-0.57	-0.06	10.78	49.18	65.78	-16.60	QP
2	0.158	25.52	-0.57	-0.07	10.77	35.65	55.56	-19.91	Average
3	0.206	34.44	-0.59	-0.17	10.76	44.44	63.36	-18.92	QP
4	0.206	22.79	-0.59	-0.17	10.76	32.79	53.36	-20.57	Average
1 2 3 4 5 6 7 8 9	0.258	22.46	-0.57	-0.22	10.75	32.42	51.51	-19.09	Average
6	0.262	33.54	-0.56	-0.23	10.75	43.50	61.38	-17.88	QP
7	0.310	32.24	-0.54	-0.18	10.74	42.26	59.97	-17.71	QP
8	0.310	20.87	-0.54	-0.18	10.74	30.89	49.97	-19.08	Average
9	0.481	21.95	-0.44	-0.24	10.75	32.02	46.32	-14.30	Average
10	0.486	34.73	-0.44	-0.26	10.76	44.79	56.23	-11.44	QP
11	0.567	34.17	-0.47	-0.37	10.76	44.09	56.00	-11.91	QP
12	0.739	24.00	-0.54	-0.28	10.79	33.97	46.00	-12.03	Average

Notes

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Aux Factor- Cable Loss.



Product name:	MOBILE PHONE	Product model:	VICE LTE
Test by:	YT	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
=	MHz	dBu₹	₫B	₫B	₫B	dBu₹	₫₿uѶ	<u>dB</u>	·
1 2 3 4 5 6 7 8	0.154	27.49	-0.69	0.01	10.78	37.59			Average
2	0.158	38.98	-0.69	0.01	10.77	49.07		-16.49	17.00
3	0.206	35.24	-0.67	0.00	10.76	45.33		-18.03	
4	0.206	24.88	-0.67	0.00	10.76	34.97	53.36	-18.39	Average
5	0.258	25.75	-0.67	0.01	10.75	35.84	51.51	-15.67	Average
6	0.466	25.10	-0.64	0.00	10.75	35.21	46.58	-11.37	Average
7	0.513	35.10	-0.65	0.03	10.76	45.24	56.00	-10.76	QP
8	0.513	24.60	-0.65	0.03	10.76	34.74	46.00	-11.26	Average
9	0.561	35.28	-0.65	0.03	10.76	45.42	56.00	-10.58	QP
10	0.561	25.77	-0.65	0.03	10.76	35.91	46.00	-10.09	Average
11	1.027	35.83	-0.68	0.08	10.87	46.10	56.00		
12	1.352	35.49	-0.69	0.12	10.91	45.83		-10.17	A CONTRACTOR OF THE PARTY OF TH

Notes

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Aux Factor Cable Loss.





6.2 Radiated Emission

Test Requirement:	FCC Part 15 B Section 15.109							
Test Frequency Range:	30MHz to 6000MI	Hz						
Test site:	Measurement Dis	stance: 3m (Sem	i-Anechoic (Chamber)			
Receiver setup:	Frequency	Detecto	r	RBW	VBW	Remark		
receiver detap.	30MHz-1GHz	Quasi-pe		120kHz	300kHz	Quasi-peak Value		
		Peak		1MHz	3MHz	Peak Value		
	Above 1GHz	RMS		1MHz	3MHz	Average Value		
Limit:	Frequenc	;y	Lim	nit (dBuV/m	@3m)	Remark		
	30MHz-88N			40.0		Quasi-peak Value		
	88MHz-216			43.5		Quasi-peak Value		
	216MHz-960			46.0		Quasi-peak Value		
	960MHz-1G	iΗZ		54.0		Quasi-peak Value		
	Above 1GI	Hz -		54.0		Average Value		
Test setup:				74.0		Peak Value		
	Tum 0.8m Table 0.8m A Ground Plane — Above 1GHz	4m	T T	RFT				
	AE H	Horn Antenna Tower Ground Reference Plane Test Receiver Antenna Tower Controller						
Test Procedure:	 The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 							





	 For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the
	EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
Test Instruments:	Refer to section 5.11 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	All of the observed value above 6GHz ware the niose floor , which were no recorded

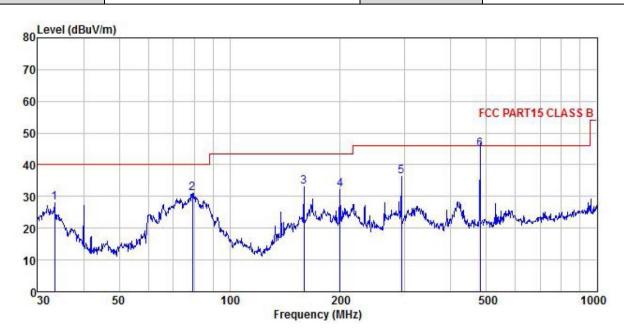




Measurement Data:

Below 1GHz:

Product Name:	MOBILE PHONE	Product Model:	VICE LTE
Test By:	YT	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



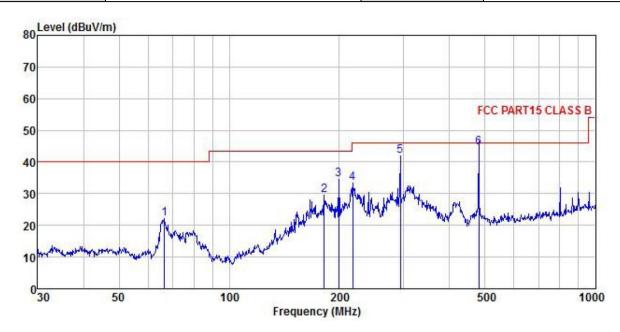
	Freq		Intenna Factor			Preamp Factor		Limit Line	Over Limit	Remark
	MHz	dBu∀		<u>d</u> B	<u>d</u> B	<u>dB</u>	$\overline{dBuV/m}$	dBuV/m	<u>dB</u>	
1	33.328	45.36	12.35	0.36	0.00	29.96	28.11	40.00	-11.89	QP
2	79.243	47.57	12.59	0.47	0.00	29.65	30.98	40.00	-9.02	QP
3	159.225	46.23	15.38	0.63	0.00	29.14	33.10	43.50	-10.40	QP
4	199.986	42.02	18.30	0.72	0.00	28.83	32.21	43.50	-11.29	QP
5	293.084	45.11	18.67	0.85	0.00	28.46	36.17	46.00	-9.83	QP
6	480.528	53.32	19.33	1.08	0.00	28.92	44.81	46.00	-1.19	QP

Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3. The Aux Factor is a notch filter switch box loss, this item is not used.



Product Name:	MOBILE PHONE	Product Model:	VICE LTE
Test By:	YT	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



	Freq		Antenna Factor			Preamp Factor		Limit Line	Over Limit	Remark
	MHz	dBu∜	<u>d</u> B/m	<u>d</u> B	<u>dB</u>	<u>dB</u>	$\overline{dBuV/m}$	dBuV/m	<u>dB</u>	
1	66.499	41.56	9.90	0.43	0.00	29.75	22.14	40.00	-17.86	QP
2	181.920	40.82	17.01	0.68	0.00	28.96	29.55	43.50	-13.95	QP
3	199.286	44.52	18.23	0.72	0.00	28.83	34.64	43.50	-8.86	QP
4	217.544	42.97	18.38	0.74	0.00	28.72	33.37	46.00	-12.63	QP
5	293.084	50.95	18.67	0.85	0.00	28.46	42.01	46.00	-3.99	QP
6	480.528	53.19	19.33	1.08	0.00	28.92	44.68	46.00	-1.32	QP

Remark:

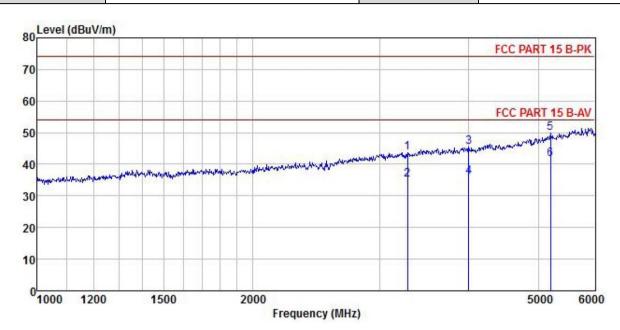
- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3. The Aux Factor is a notch filter switch box loss, this item is not used.





Above 1GHz:

Product Name:	MOBILE PHONE	Product Model:	VICE LTE
Test By:	YT	Test mode:	PC mode
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



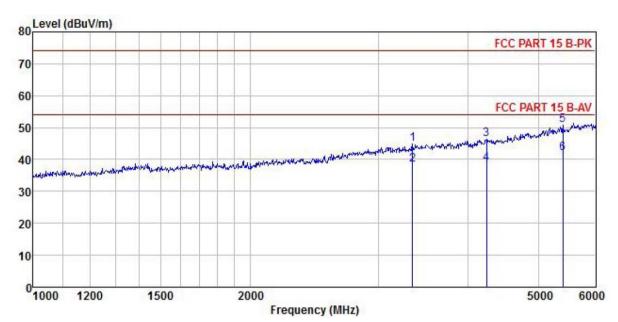
	Freq			ntenna Cable Factor Loss		Preamp Factor		Limit Line		Remark
	MHz	dBu∇	dB/m			<u>dB</u>	dBuV/m	dBuV/m	<u>dB</u>	
1	3283.635	49.29	28.58	5.13	2.07	41.38	43.69	74.00	-30.31	Peak
2	3283.635	40.72	28.58	5.13	2.07	41.38	35.12	54.00	-18.88	Average
3	3996.776	49.89	29.29	5.76	2.20				-28.67	
4	3996.776	40.68	29.29	5.76	2.20	41.81	36.12	54.00	-17.88	Average
5	5197.542	51.07	31.63	6.73	2.55	41.95	50.03	74.00	-23.97	Peak
6	5197.542	42.58	31.63	6.73	2.55	41.95	41.54	54.00	-12.46	Average

Remark

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



Product Name:	MOBILE PHONE	Product Model:	VICE LTE
Test By:	YT	Test mode:	PC mode
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



	Eros	ReadAntenna Level Factor				Preamp		Limit	Over	Remark
	rreq	rever	ractor	FOSS	ractor	ractor	rever	Line	LIMIT	Kemark
	MHz	dBu∀	dB/m	₫B	dB	₫B	dBuV/m	dBuV/m	₫B	
1	3348.157	50.27	28.62	5.18	2.12	41.36	44.83	74.00	-29.17	Peak
2	3348.157	43.85	28.62	5.18	2.12	41.36	38.41	54.00	-15.59	Average
3	4237.042	50.27	29.70	5.95	2.28	41.84	46.36		-27.64	
4	4237.042	42.59	29.70	5.95	2.28	41.84	38.68			Average
5	5403.809	51.00	32.10	6.92	2.62	41.86	50.78	74.00	-23.22	Peak
6	5403.809	42.16	32.10	6.92	2.62	41.86	41.94	54.00	-12.06	Average

Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.