Report No: CCISE190304506

FCC REPORT

Applicant: ShenZhen Aratek Biometrics Technology Co., Ltd.

Address of Applicant: 2F, T2-A Building, ShenZhen Software Park, South Area, Hi-

Tech Park, Shenzhen, Guangdong, China

Equipment Under Test (EUT)

Product Name: Mobile ID Terminal

Model No.: Marshall, Marshall L, Marshall U, Marshall M, Marshall C,

Marshall S, Marshall 8, BM5510, BM5520

FCC ID: 2AGUJMARSHALL

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 14 Mar., 2019

Date of Test: 14 Mar., to 16 May, 2019

Date of report issued: 16 May, 2019

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 CCIS 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.

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





Version

Version No.	Date	Description
00	16 May, 2019	Original

(given (hen Test Engineer Tested by: Date: 16 May, 2019

Reviewed by: Date: 16 May, 2019

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:

Pass: The EUT complies with the essential requirements in the standard.

N/A: The EUT not applicable of the test item.



5 General Information

5.1 Client Information

Applicant:	ShenZhen Aratek Biometrics Technology Co., Ltd.	
Address:	2F, T2-A Building, ShenZhen Software Park, South Area, Hi-Tech Park, Shenzhen, Guangdong, China	
Manufacturer:	ShenZhen Aratek Biometrics Technology Co., Ltd.	
Address:	2F,T2-A Building, ShenZhen Software Park, South Area, Hi-Tech Park, Shenzhen, Guangdong, China	

5.2 General Description of E.U.T.

Product Name:	Mobile ID Terminal
Model No.:	Marshall, Marshall L, Marshall U, Marshall M, Marshall C, Marshall S, Marshall 8, BM5510, BM5520
Power supply:	Rechargeable Li-ion Battery DC3.8V, 10000mAh
AC adapter :	Model: RH-050250US Input: AC100-240V, 50/60Hz, 0.6A Output: DC 5.0V, 2500mA
Test Sample Condition:	The test samples were provided in good working order with no visible defects.
Remark:	Item No.: Marshall, Marshall L, Marshall U, Marshall M, Marshall C, Marshall S, Marshall 8, BM5510, BM5520 were identical inside, the electrical circuit design, layout, components used and internal wiring, with difference being model name and shell color.

5.3 Test Mode

Operating mode	Detail description
PC mode	Keep the EUT in Downloading mode(Worst case)
Charging+Printing mode	Keep the EUT in Charging+Printing mode
Charging+Scanning mode	Keep the EUT in Charging+Scanning mode
Charging+MRZ Reading mode	Keep the EUT in Charging+MRZ Reading mode
Charging+Smart Card Reading mode	Keep the EUT in Charging+Smart Card Reading mode
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.

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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)	±4.54 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.84 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.36 dB (k=2)

5.5 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
DELL	PC	OPTIPLEX745	N/A	DoC
DELL	MONITOR	E178FPC	N/A	DoC
DELL	KEYBOARD	SK-8115	N/A	DoC
DELL	MOUSE	MOC5UO	N/A	DoC
LENOVO	Laptop	SL510	2847A65	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
Overall USB Cable	Unshielded	0.9m	EUT	Adapter

5.8 Laboratory Facility

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

FCC - Registration No.: 727551

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

IC - Registration No.: 10106A-1

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

• CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

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

5.9 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, 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

Shenzhen Zhongjian Nanfang Testing Co., Ltd.
No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China
Telephone: +86 (0) 755 2311 8282 Fax: +86 (0) 755 2311 6366

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5.10 Test Instruments list

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	07-22-2017	07-21-2020
Loop Antonna	SCHWARZBECK	FMZB1519B	00044	03-18-2018	03-17-2019
Loop Antenna	SCHWARZBECK	FINIZE 13 19E	00044	03-18-2019	03-17-2020
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-18-2018	03-17-2019
BICOIILOG AIILEIIIIA	SCHWARZBECK	VOLDS103	497	03-18-2019	03-17-2020
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-18-2018	03-17-2019
TIOTTI ATTICITIA	SCHWARZBECK	DDI IAS 120D	910	03-18-2019	03-17-2020
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2017	06-21-2020
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-21-2018	11-20-2019
EMI Test Software	AUDIX	E3	\	Version: 6.110919b	
Dra amplifica	LID	0447D	2944A09358	03-18-2018	03-17-2019
Pre-amplifier	HP	8447D		03-18-2019	03-17-2020
Pre-amplifier	CD	PAP-1G18	11804	03-18-2018	03-17-2019
Pre-ampilier	CD	PAP-1G16	11004	03-18-2019	03-17-2020
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-18-2018	03-17-2019
Spectrum analyzer	Nonue & Schwarz	F3F30	101454	03-18-2019	03-17-2020
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-21-2018	11-20-2019
EMI Took Dooring	Dahala 8 Oakuus	E0DD7	404070	03-18-2018	03-17-2019
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-18-2019	03-17-2020
Cable	ZDECL	7400 NII NII 04	1600450	03-18-2018	03-17-2019
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-18-2019	03-17-2020
Cable	MICRO-COAX	MFR64639	K10742 5	03-18-2018	03-17-2019
Cable	WIICKO-COAX	IVIFR04039	K10742-5	03-18-2019	03-17-2020
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-18-2018	03-17-2019
Cable	SULINER	30COFLEX 100	30193/4FE	03-18-2019	03-17-2020

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	03-18-2018	03-17-2019	
EIVII Test Receiver	Ronde & Schwarz	ESCI	101189	03-18-2019	03-17-2020	
Dulas Limitar	SCHWARZBECK	OSRAM 2306	9731	03-18-2018	03-17-2019	
Pulse Limiter	SCHWARZBECK	USKAWI 2306		03-18-2019	03-17-2020	
LICN	CHACE	MNIOOEOD	4.447	03-18-2018	03-17-2019	
LISN	CHASE	MN2050D	1447	03-18-2019	03-17-2020	
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2018	07-20-2019	
Cable	LID	405024	21/0	03-18-2018	03-17-2019	
Cable	HP 10503A N/A		IN/A	03-18-2019	03-17-2020	
EMI Test Software	AUDIX	E3	,	Version: 6.110919	b	



6 Test results and Measurement Data

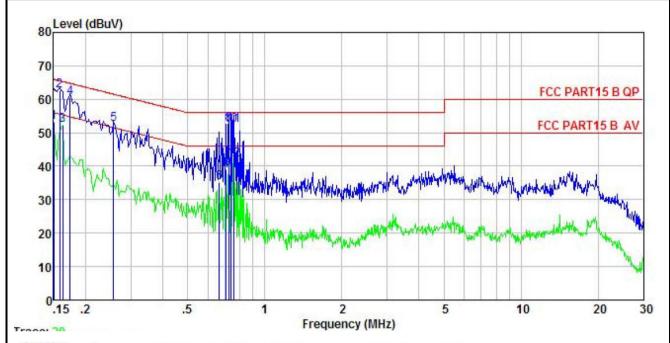
6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.107			
Test Method:	ANSI C63.4:2014			
Test Frequency Range:	150kHz to 30MHz			
Class / Severity:	Class B			
Receiver setup:	RBW=9kHz, VBW=30kHz			
Limit:		Limit	(dBµV)	
	Frequency range (MHz)	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 logarith	m of the frequency.		
Test setup:	Reference Plan	ne		
	AUX Equipment Test table/Insulation plane Remark: E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m			
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). 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: 2014 on conducted measurement. 			
Test Instruments:	Refer to section 5.9 for details			
Test mode:	Refer to section 5.3 for detail	ls		
Test results:	Pass			



Measurement data:

Product name:	Mobile ID Terminal	Product model:	Marshall
Test by:	Carey	Test mode:	Charging & Printing mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



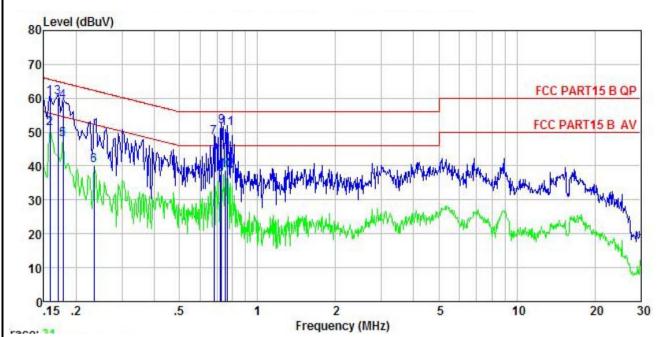
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
9	MHz	dBu∇	<u>dB</u>	<u>ab</u>	dBu₹	dBu∇	<u>d</u> B	
1	0.150 0.158	42.73 52.16	-0.45 -0.44	10.78 10.77	53.06 62.49	56.00 65.56	-2.94 -3.07	Average
3	0.162	41.98	-0.44	10.77	52.31	55.34	-3.03	Average
1 2 3 4 5 6 7 8 9	0.174 0.258	50.26 42.09	-0.43 -0.40	10.77 10.75	60.60 52.44	64.77 61.51	-4.17 -9.07	QP
6 7	0.665 0.708	24.66 28.51	-0.38 -0.38	10.77 10.77	35.05 38.90	46.00		Average Average
8	0.724 0.724	42.19 28.97	-0.38 -0.38	10.78 10.78	52.59 39.37	56.00 46.00	-3.41	
10	0.739	41.70	-0.38	10.79	52.11	56.00	-3.89	QP
11 12	0.755 0.755	41.82 31.63	-0.38 -0.38	10.79 10.79	52.23 42.04	56.00 46.00	-3.77 -3.96	QP 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 + Cable Loss.



Product name:	Mobile ID Terminal	Product model:	Marshall
Test by:	Carey	Test mode:	Charging & Printing 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	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu∇	₫₿		dBu₹	dBu₹	<u>ab</u>	
1	0.158	50.23	-0.68	10.77	60.32	65.56	-5.24	
2	0.158	40.95	-0.68	10.77	51.04	55.56	-4.52	Average
3	0.170	50.11	-0.68	10.77	60.20	64.94	-4.74	QP
4	0.178	48.91	-0.69	10.77	58.99	64.59	-5.60	QP
1 2 3 4 5	0.178	37.67	-0.69	10.77	47.75	54.59	-6.84	Average
6	0.234	30.21	-0.67	10.75	40.29	52.30	-12.01	Average
7	0.679	38.21	-0.64	10.77	48.34	56.00	-7.66	QP
7 8 9	0.720	27.38	-0.64	10.78	37.52	46.00	-8.48	Average
9	0.727	41.49	-0.64	10.78	51.63	56.00	-4.37	QP
10	0.751	28.42	-0.64	10.79	38.57	46.00	-7.43	Average
11	0.763	40.82	-0.64	10.80	50.98	56.00	-5.02	
12	0.763	28.62	-0.64	10.80	38.78	46.00		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 + Cable Loss.



6.2 Radiated Emission

Test Requirement:	FCC Part 15 B S	ection 15.1	09			
Test Method:	ANSI C63.4:2014	1				
Test Frequency Range:	30MHz to 6000M	Hz				
Test site:	Measurement Dis	stance: 3m	(Sen	ni-Anechoic	Chamber)	
Receiver setup:	Frequency	Detect		RBW	VBW	Remark
	30MHz-1GHz	Quasi-pe		120kHz	300kHz	Quasi-peak Value
	Above 1GHz	Peak		1MHz	3MHz	Peak Value
		RMS		1MHz	3MHz	Average Value
Limit:	Frequenc		Lim	nit (dBuV/m	@3m)	Remark
	30MHz-88N			40.0		Quasi-peak Value
	88MHz-216I 216MHz-960			43.5 46.0		Quasi-peak Value Quasi-peak Value
	960MHz-10			54.0		Quasi-peak Value
	900101112-10	JI 1 <u>Z</u>		54.0		Average Value
	Above 1G	Hz		74.0		Peak Value
Test setup:	Below 1GHz Tum Table Ground Plane Above 1GHz	4m 4m 1			Antenna Tower Search Antenna Test eiver	
	80CM (Turn			erence Plane	Antenna Tow	er





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.
	4. 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.
	6. 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 5.9 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

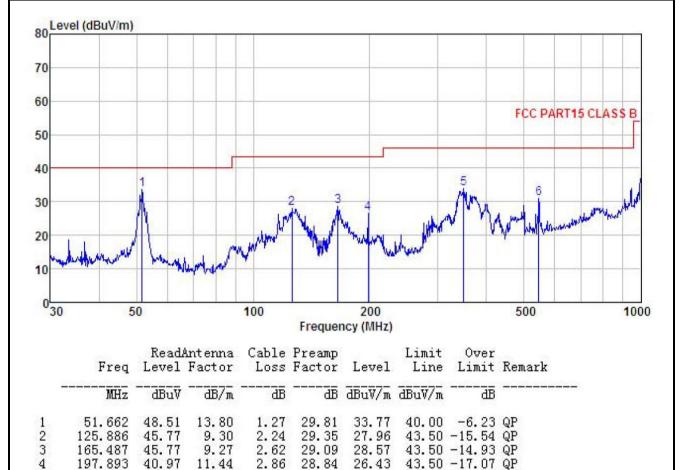




Measurement Data:

Below 1GHz:

Product Name:	Mobile ID Terminal	Product Model:	Marshall
Test By:	Carey	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



26.43

33.92

30.99

43.50 -17.07 QP

46.00 -12.08 QP

46.00 -15.01 QP

Remark:

5

197.893

349.250

545.183

40.97

44.79

38.26

11.44

14.59

17.95

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor.

2.86

3.10

3.86

28.84

28.56

29.08

The emission levels of other frequencies are very lower than the limit and not show in test report.



Produ	ict Nam	e:	Mobile	ID Termina	al		Produ	ct Model:	ľ	Marshall				
est E	By:		Carey				Test m	Test mode:		PC mode		PC mode		
est F	requer	су:	30 MH	z ~ 1 GHz	~ 1 GHz Polarization: Horizontal			Polarization:						
est V	/oltage		AC 120	0/60Hz			Enviro	nment:	-	Γemp: 24℃	Huni: 57%			
80 70 60 50 40 30		BuV/m)	Muhaman	Political Automatical Automati	, ne diversity land	an de Alberta	2	3 11/1/1	45	6	15 CLASS B			
O.	30	50)		100	Frequenc	200 cy (MHz)	ir.		500	1000			
O.	30		Read	Antenna Factor	Cable	C)	cy (MHz)	Limit Line	Over Limit		1000			
ol.	30		Read	Antenna Factor	Cable	Preamp Factor	cy (MHz)	Line	Limit	Remark	1000			

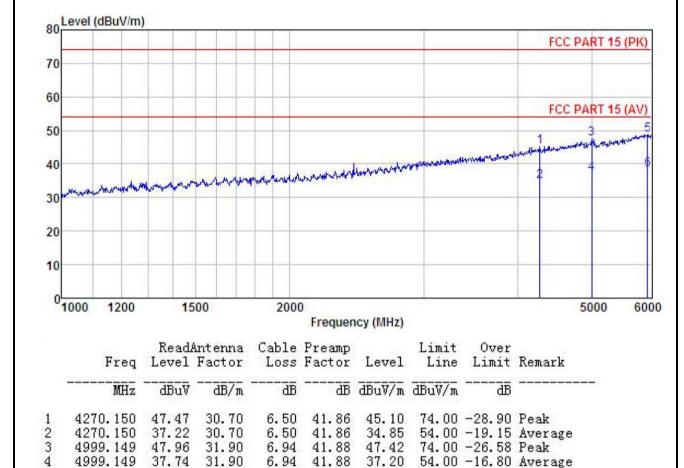
Remark:

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



Above 1GHz:

Product Name:	Mobile ID Terminal	Product Model:	Marshall
Test By:	Carey	Test mode:	PC mode
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



Remark:

5

5921.334

5921.334

46.96

36.49

33.16

33.16

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

7.91 42.04

7.91 42.04

48.76

74.00 -25.24 Peak

38.29 54.00 -15.71 Average



duc	ct Name:	Mobile	ID Termin	nal		Produ	uct Model	:	Marshall		
st By	y:	Carey				Test	mode:		PC mode		
st Fr	requency:	1 GHz	1 GHz ~ 6 GHz Polarization: Horizontal				Polarization:				
st Vo	oltage:	AC 120	0/60Hz			Envir	Environment:		Temp: 24℃ Huni: 5		
1	Level (dBuV/m)										
80	Level (dbdv/iii)								FCC F	PART 15 (PK)	
70									1001	ART 15 (FR)	
10											
60									500 5	245 45 424	
									FCCF	PART 15 (AV)	
50									1 de santonem	mark from the work of the	
40	man of the same of						Mulliman	myther with the	-	4 6	
	made at death, while way, or	MANAGE AND	MATERIAL MAT	aller of reparts	ALAMAN M	Marine A			1		
30	7-07-07-0										
20											
20											
20											
10	4000 4000	450		200						5000 6000	
10	1000 1200	150	00	2000		ncy (MHz)				5000 6000	
10	1000 1200				Frequer		Limit	Over		5000 6000	
10		ReadA	00 Intenna Factor	Cable	Frequer		Limit Line	Over Limit		5000 6000	
10		ReadA	int enna	Cable	Frequer Preamp Factor		Line			5000 6000	
10	Freq 	ReadA Level dBuV 47.94	Antenna Factor dB/m 30.74	Cable Loss dB 6.54	Frequer Preamp Factor dB	Level dBuV/m 45.64	Line dBuV/m 74.00	Limit dB -28.36	Remark	5000 6000	
10	Freq 	ReadA Level dBuV 47.94 38.00	antenna Factor dB/m 30.74 30.74	Cable Loss ——————————————————————————————————	Preamp Factor ————————————————————————————————————	Level dBuV/m 45.64 35.70	Line dBuV/m 74.00 54.00	Limit 	Remark Peak Average	5000 6000	
10	Freq MHz 4295.151 4295.151 5351.487	ReadA Level dBuV 47.94 38.00 47.73	untenna Factor —— dB/m 30.74 30.74 32.26	Cable Loss ——————————————————————————————————	Preamp Factor dB 41.88 41.88 41.89	Level dBuV/m 45.64 35.70 47.82	Line dBuV/m 74.00 54.00 74.00	Limit	Remark Peak Average Peak	5000 6000	
10	Freq 	ReadA Level dBuV 47.94 38.00 47.73 37.76	antenna Factor dB/m 30.74 30.74	Cable Loss dB 6.54 6.54 7.11 7.11	Preamp Factor ————————————————————————————————————	Level dBuV/m 45.64 35.70 47.82 37.85	Line dBuV/m 74.00 54.00 74.00 54.00	Limit	Remark Peak Average Peak Average	5000 6000	

Remark:

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