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# TEST REPORT

FCC ID: 2AJMN-A667LP

**Product: Mobile Phone** 

Model No.: A667LP

Trade Mark: itel

Report No.: WSCT-A2LA-R&E240200007A-LE

Issued Date: 12 March 2024

Issued for:

ITEL MOBILE LIMITED FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

Issued By:

World Standardization Certification & Testing Group(Shenzhen) Co.,Ltd. Building A-B, Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China

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William William William





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## Report No.: WSCT-A2LA-R&E240200007A-LE

## **Test Certification**

Product:

Mobile Phone

Model No.:

A667LP

Trade Mark:

itel

Applicant:

ITEL MOBILE LIMITED

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25

SHAN MEI STREET FOTAN NT HONGKONG

Manufacturer:

ITEL MOBILE LIMITED

Address:

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25

SHAN MEI STREET FOTAN NT HONGKONG

Date of Test:

06 February 2024 ~ 11 March 2024

Applicable

FCC CFR Title 47 Part 15 Subpart C Section 15.247

Standards:

KDB 558074 D01 DTS Meas Guidance v04

The above equipment has been tested by World Standardization Certification & Testing Group(Shenzhen)Co., Ltd. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:

(Wang Xiang)

Checked By:

Approved By:

(Liu Fuxin)

Date:

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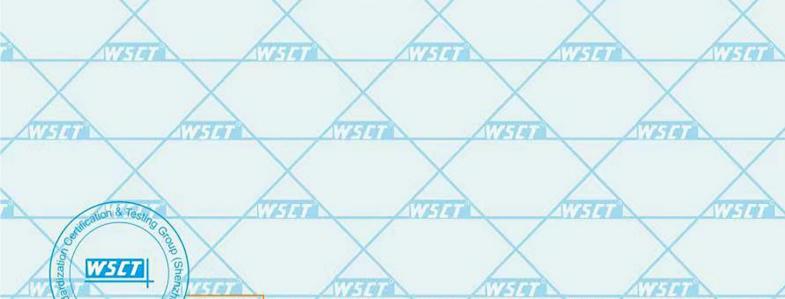
# 2. Test Result Summary

	/\!\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		/ VATION /
7	Requirement	CFR 47 Section	Result
	Antenna requirement	§15.203/§15.247 (c)	PASS
	AC Power Line Conducted Emission	§15.207	PASS
,	Conducted Peak Output Power	§15.247 (b)(3) §2.1046	PASS
	6dB Emission Bandwidth	§15.247 (a)(2) §2.1049	PASS
	Power Spectral Density	§15.247 (e)	PASS
,	Band Edge	1§5.247(d) §2.1051, §2.1057	PASS
	Spurious Emission	§15.205/§15.209 §2.1053, §2.1057	PASS

## Note:

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- 1. PASS: Test item meets the requirement.
- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.











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# 3. EUT Description

Product:	Mobile Phone
Model No.:	A667LP
Trade Mark:	itel WSG WSG
Operation Frequency:	2402MHz~2480MHz
Channel Separation:	2MHz
Number of Channel:	40
Modulation Technology:	GFSK
Antenna Type:	Integral Antenna
Antenna Gain:	0.32dBi
Rechargeable Li-Polymer Battery:	Li-ion Battery: BL-49NI Rated Voltage: 3.85V Rated Capacity: 4900mAh/18.86Wh Limited Capacity: 5000mAh/19.25Wh Limited Charge Voltage: 4.4V
Adapter:	Adapter: U100ISB Input: 100-240V~50/60Hz 0.3A Output: 5.0V2.0A
Remark:	N/A VISTA

Operation Frequency each of channel

30	Operatio	ii i requerie	y caon o	Chamic	A .		9).	ATT TO THE REAL PROPERTY.
	Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
	0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
	1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
	AWATE		17274		AWSI		17374	7
1	8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
	9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz
S	Remark: Channel 0, 19 & 39 have been tested.							











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## 4. Genera Information

## 4.1. Test environment and mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 98.46%) with Fully-charged battery.

The sample was placed (0.1m below 1GHz, 1.5m above 1GHz) 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.

## 4.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
Adapter	Adapter	1	1	ADAPTER

#### Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.











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## 5. Facilities and Accreditations

#### 5.1. Facilities

All measurement facilities used to collect the measurement data are located at Building A-B, Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China of the World Standardization Certification & Testing Group(Shenzhen) CO., LTD

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 32. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

#### 5.2. ACCREDITATIONS

## **CNAS - Registration Number: L3732**

China National Accreditation Service for Conformity Assessment, The test firm Registration Number: L3732

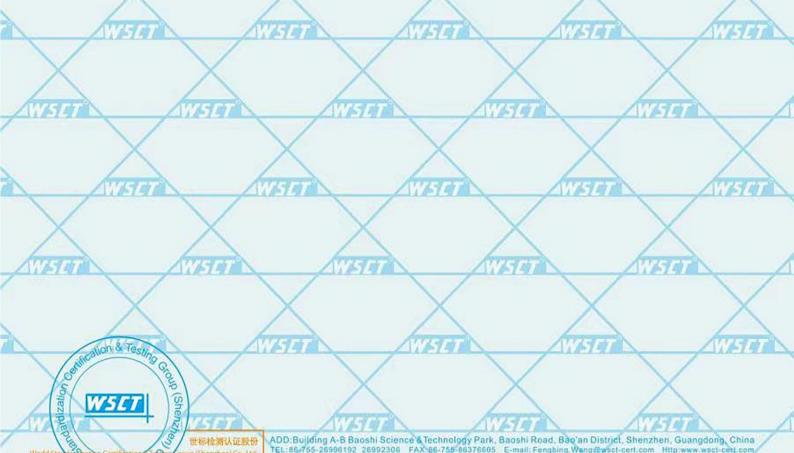
## FCC - Designation Number: CN1303

World Standardization Certification & Testing Group(Shenzhen) CO., LTD. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Designation Number: CN1303.

#### A2LA - Certificate Number: 5768.01

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The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number: 5768.01



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## 5.3. Measurement Uncertainty

The reported uncertainty of measurement y ± U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

		app. 27a.c., 22 70.	
1	No.	Item	MU
	1	Conducted Emission Test	±3.2dB
	2	RF power, conducted	±0.16dB
	3 // 5/	Spurious emissions, conducted	±0.21dB
	4	All emissions, radiated(<1GHz)	±4.7dB
/	5	All emissions, radiated(>1GHz)	±4.7dB
	6	Temperature	±0.5°C
	7 X	Humidity	±2.0%



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## 5.4. MEASUREMENT INSTRUMENTS

<	NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibrati on Due.	
4	Test software		EZ-EMC	CON-03A	- 17	474	
	Test software		MTS8310	-			1
	EMI Test Receiver	R&S	ESCI	100005	11/05/2023	11/04/2024	1
	LISN	AFJ	LS16	16010222119	11/05/2023	11/04/2024	2
1	LISN(EUT)	Mestec	AN3016	04/10040	11/05/2023	11/04/2024	
1	Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	11/05/2023	11/04/2024	
4	Coaxial cable	Megalon	LMR400	N/A	11/05/2023	11/04/2024	
	GPIB cable	Megalon	GPIB	N/A	11/05/2023	11/04/2024	-
	Spectrum Analyzer	R&S	FSU	100114	11/05/2023	11/04/2024	
	Pre Amplifier	H.P.	HP8447E	2945A02715	11/05/2023	11/04/2024	Ě
(	Pre-Amplifier	CDSI	PAP-1G18-38	<del>-</del> ×	11/05/2023	11/04/2024	
	Bi-log Antenna	SCHWARZBECK	VULB9168	01488	2023-07-29	2024-07-28	
9	9*6*6 Anechoic		FTWE	NATE OF THE PARTY	11/05/2023	11/04/2024	
	Horn Antenna	COMPLIANCE ENGINEERING	CE18000		11/05/2023	11/04/2024	
	Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	11/05/2023	11/04/2024	2
/	Cable	TIME MICROWAVE	LMR-400	N-TYPE04	11/05/2023	11/04/2024	
1	System-Controller	ccs	N/A	N/A	N.C.R	N.C.R	
7	Turn Table	ccs	/ N/A	N/A	N.C.R	N.C.R	L
	Antenna Tower	ccs	N/A	N/A	N.C.R	N.C.R	\
	RF cable	Murata	MXHQ87WA3000	-	11/05/2023	11/04/2024	/
	Loop Antenna	EMCO	6502	00042960	11/05/2023	11/04/2024	Z
1	Horn Antenna	SCHWARZBECK	BBHA 9170	1123	11/05/2023	11/04/2024	
1	Power meter	Anritsu	ML2487A	6K00003613	11/05/2023	11/04/2024	
4	Power sensor	Anritsu	MX248XD	1774	11/05/2023	11/04/2024	
	Spectrum Analyzer	Keysight	N9010B	MY60241089	11/05/2023	11/04/2024	1



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## 6. Test Results and Measurement Data

## 6.1. Antenna requirement

## Standard requirement:

FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

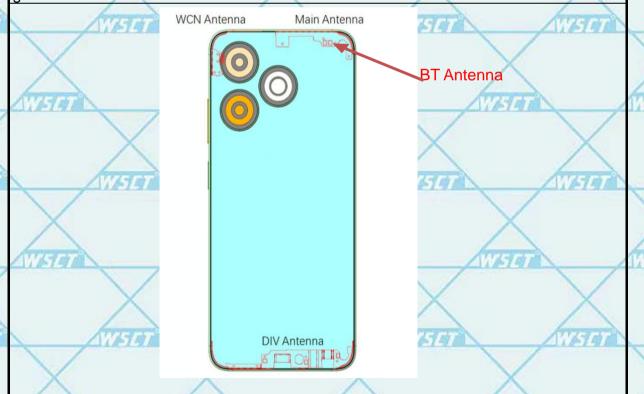
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

#### **E.U.T Antenna:**

The Bluetooth antenna is a Integral Antenna. it meets the standards, and the best case gain of the antenna is 0.32dBi.













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# 6.2. Conducted Emission

6.2.1. Test Specification			
Test Requirement:	FCC Part15 C Section	15.207	
Test Method:	ANSI C63.10:2014	NATO NATO	
Frequency Range:	150 kHz to 30 MHz	$\times$	
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time=auto	
Limits:	Frequency range (MHz) 0.15-0.5 0.5-5 5-30	Limit (dBuV)           Quasi-peak         Average           66 to 56*         56 to 46*           56         46           60         50	
X	Refere	nce Plane	
WISTER SWIST	40cm	LISN Filter AC power	r 4
Test Setup:	Test table/Insulation pla	EMI Receiver	
AVISI	LISN: Line Impedence Stabilization Test table height=0.8m		1
Test Mode:	Charging + Transmittin	X	
Wister	impedance stabiliz provides a 50ohm/5 measuring equipmer 2. The peripheral devic power through a LI	es are also connected to the mass. SN that provides a 50ohm/50	his the ain uH
Test Procedure:	refer to the block photographs).  3. Both sides of A.C. conducted interferer emission, the relative the interface cables	with 50ohm termination. (Pleadiagram of the test setup as line are checked for maximized. In order to find the maximized positions of equipment and also must be changed according to conducted measurement.	um um l of
Test Result:	PASS		/
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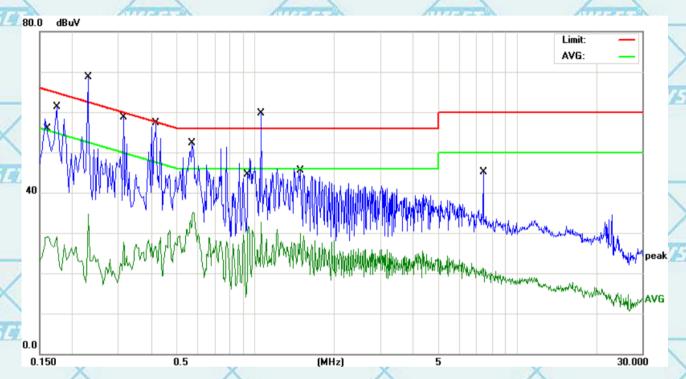
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6.2.2. Test data

## Please refer to following diagram for individual

## Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



\	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBuV	dB	dBuV	dBuV	dB	Detector
	1		0.1620	18.66	10.45	29.11	55.36	-26.25	AVG
	2	*	0.1740	50.90	10.45	61.35	64.76	-3.41	QP
4	3		0.2300	34.81	10.46	45.27	62.45	-17.18	QP
	4		0.2300	24.31	10.46	34.77	52.45	-17.68	AVG
	5		0.3140	29.09	10.48	39.57	59.86	-20.29	QP
\	6		0.4180	24.91	10.50	35.41	57.49	-22.08	QP
	7		0.5780	24.62	10.52	35.14	46.00	-10.86	AVG
	8		0.9420	21.19	10.55	31.74	46.00	-14.26	AVG
	9		1.0540	25.65	10.56	36.21	56.00	-19.79	QP
4	10		1.0540	22.11	10.56	32.67	46.00	-13.33	AVG
	11		1.4860	19.21	10.63	29.84	46.00	-16.16	AVG
	12		7.4300	34.30	10.78	45.08	60.00	-14.92	QP

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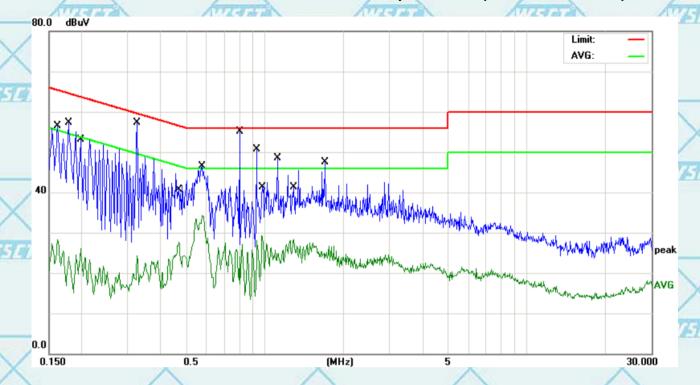




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## Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



4	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBuV	dB	dBuV	dBuV	dB	Detector
	1		0.1620	17.95	10.45	28.40	55.36	-26.96	AVG
	2		0.1780	46.82	10.45	57.27	64.57	-7.30	QP
_	3		0.1980	15.65	10.45	26.10	53.69	-27.59	AVG
	4		0.3260	26.88	10.48	37.36	59.55	-22.19	QP
	5		0.4700	17.24	10.51	27.75	46.51	-18.76	AVG
4	6		0.5780	23.82	10.52	34.34	46.00	-11.66	AVG
4	7		0.8020	20.27	10.54	30.81	56.00	-25.19	QP
	8	*	0.9300	40.15	10.55	50.70	56.00	-5.30	QP
	9		0.9780	18.75	10.55	29.30	46.00	-16.70	AVG
	10		1.1180	38.01	10.57	48.58	56.00	-7.42	QP
5	11		1.2900	17.78	10.60	28.38	46.00	-17.62	AVG
	12		1.7060	36.93	10.66	47.59	56.00	-8.41	QP
	_	_							

#### Note:

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Freq. = Emission frequency in MHz

Reading level  $(dB\mu V)$  = Receiver reading

Corr. Factor (dB) = Lins factor + Cable loss

Measurement  $(dB\mu V)$  = Reading level  $(dB\mu V)$  + Corr. Factor (dB)

Limit (dBµV) = Limit stated in standard

 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$ 

Q.P. =Quasi-Peak AVG =average

is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

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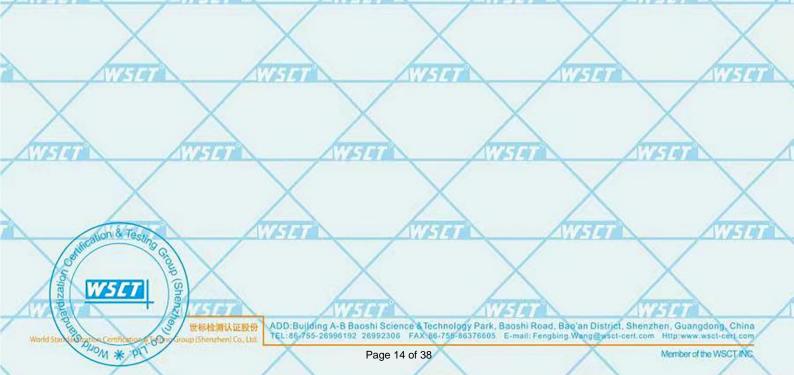
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## 6.3. Conducted Output Power

## 6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB558074
Limit:	30dBm
Test Setup:	EUT EUT
Toot Mada	Refer to item 4.1
Test Mode:	Refer to item 4.1
Test Procedure:	<ol> <li>The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v04.</li> <li>Set spectrum analyzer as following:         <ul> <li>a) Set the RBW ≥ DTS bandwidth.</li> <li>b) Set VBW ≥ 3 x RBW.</li> <li>c) Set span ≥ 3 x RBW</li> <li>d) Sweep time = auto couple.</li> <li>e) Detector = peak.</li> <li>f) Trace mode = max hold.</li> <li>g) Allow trace to fully stabilize.</li> <li>h) Use peak marker function to determine the peak amplitude level.</li> </ul> </li> </ol>
Test Result:	PASS



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## 6.3.2. Test Data

7		BLE 1N	Л	
	Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result
1	Lowest	-2.97	30.00	PASS
	Middle	-2	30.00	PASS
	Highest	-3.5	30.00	PASS

	Middle	-2	30.00	PASS	/
	Highest	-3.5	30.00	PASS	X
	WHAT	AVETURE AND	75147	V2514T	AVETER
NVIII	Test plots as follows:	WAS BEEN TO SERVICE OF THE PERSON OF THE PER	NVSTO	WEIGH	
	WESTER	NV-T-D-	7514	7-1-1-1	WEIGH
WETER	Wister	WSET	WSET	WSG	
	NET 41	N. K. S.	1514	(1514)	NETE O
Wister	WSF	WSET	W/5191	AVATOR	
	WSIG	X	X	745741	7/5/91
7514	7879	77.57.51	10.19	WATER	
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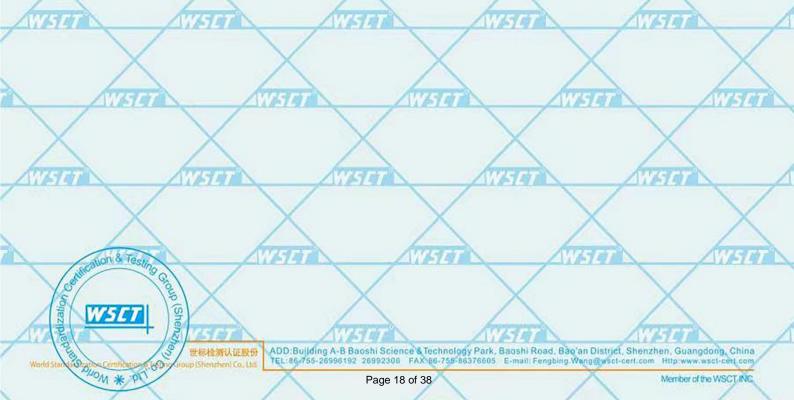
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## 6.4. Emission Bandwidth

## 6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB558074
Limit:	>500kHz
Test Setup:	EUT EUT
Test Mode:	Refer to item 4.1
Test Procedure:	<ol> <li>The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v04.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must</li> </ol>
Test Result:	be greater than 500 kHz.  4. Measure and record the results in the test report.  PASS











Report No.: WSCT-A2LA-R&E240200007A-LE

6.4.2. Test data

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3 L	E1M	767年間 / 157月前	11/5	中国 /
	Test channel	6dB Emission I	Bandwidth (kHz)	
	rest chamilei	BT LE mode	Limit	Result
	Lowest	0.655	>500k	17574
	Middle	0.652	>500k	PASS
	Highest	0.647	>500k	

Test plots as follows:

Stands Organication (6 Ons Group (Shenzhen) Co. Ltd

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ADD:Building A-B Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China TEL:86-755-26996192 26992308 FAX:86-755-86376605 E-mail: Fengbing Wang@wscl-cert.com Http://www.wscl-cert.com







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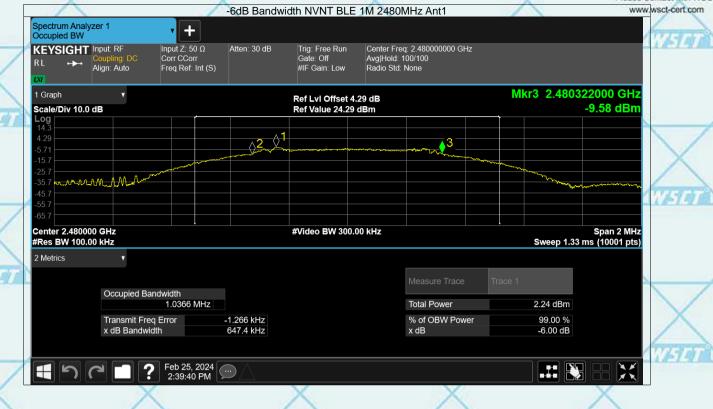


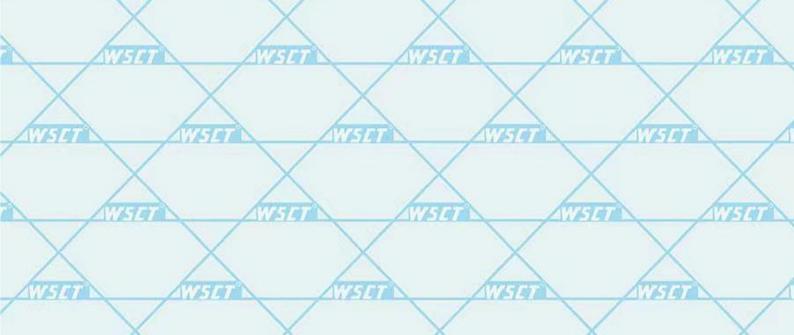


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6.5. Power Spectral Density

Report No.: WSCT-A2LA-R&E240200007A-LE

## 6.5.1. Test Specification

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Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB558074
Limit:	The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Refer to item 4.1
Test Procedure:	<ol> <li>The testing follows Measurement Procedure 10.2         Method PKPSD of FCC KDB Publication No.558074         D01 DTS Meas. Guidance v04</li> <li>The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)</li> <li>Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum</li> </ol>
Test Result:	power level. 6. Measure and record the results in the test report.  PASS

## 6.5.2. Test Instruments

	RI	F Test Room		
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	R&S	FSU	200054	Sep. 27, 2024
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2024
Antenna Connector	тст	RFC-01	N/A	Sep. 27, 2024

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to W55international system unit (SI).









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## 6.5.3. Test data

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- 6					
	Test channel	Power Spectral D	ensity (dBm/3kl	Hz)	Í
	rest chamilei	BLE 1M	Limit	Result	
	Lowest	-18. <mark>9</mark> 4	8 dBm/3kHz		
ò	Middle	-17.98	8 dBm/3kHz	PASS	
	Highest	-19.6	8 dBm/3kHz		2

	Test plots as follows:	NVF141	WSTAT	WET 9	WATER
XIF!					101
	AVE 19	S115151	N/F/97	WH4	WHITE
WEST	West of	AW.	AVE	W.	700
	WHITE	AVE TEL	WEIGH	WHAT	174-14-0
11757	Wi-Ta	NV-5	AVE		707
	NEG	Wister	VETO	Waster	WEIGT
X1725			THE AVE		700
	$\times$	X	WSUT	WSIAI	WHITE
Silezione	WSでは WSTの Grant Company (Shenzhen)				999
World Sta	世級機能 Man Day Commonton (2011) sroup (Shenzhen)	证表份 Co. Ltd TEL:86/755-26996192	oshi Science & Technology Park, Ba 26992306 FAX 86-755-86376605 E- Page 23 of 38	oshi Road, Bão an District, Shenzh mail: Fengbing.Wang@wscl-cert.com	



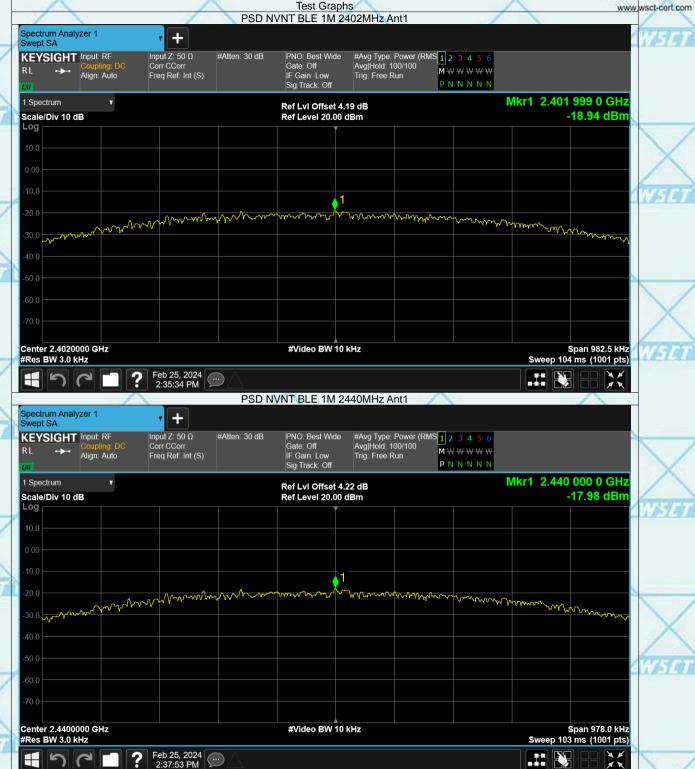




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## Report No.: WSCT-A2LA-R&E240200007A-LE

# 6.6. Conducted Band Edge and Spurious Emission Measurement

## 6.6.1. Test Specification

6.6.1. Test Specifica	HOIL A TAME
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Refer to item 4.1
Test Procedure:	<ol> <li>The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).</li> <li>Measure and record the results in the test report.</li> <li>The RF fundamental frequency should be excluded against the limit line in the operating frequency band.</li> </ol>
Test Result:	PASS











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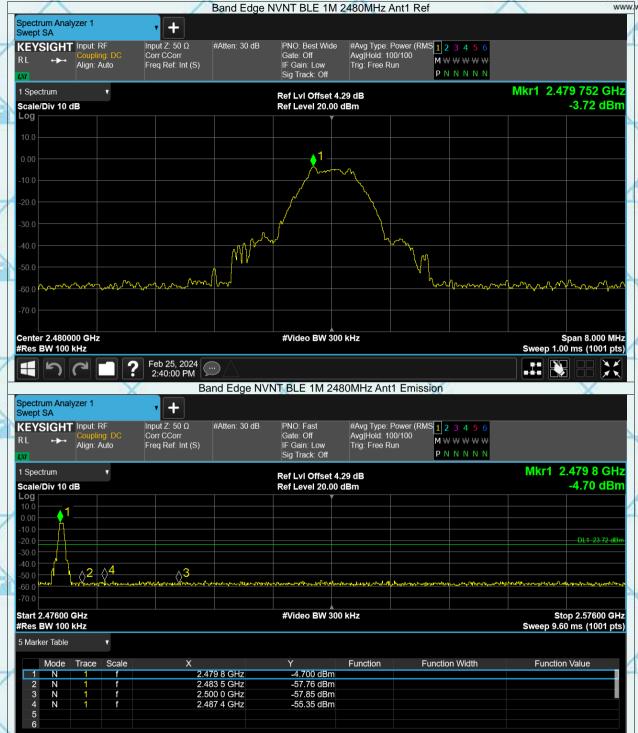




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ACCREDITED Report No.: WSCT-A2LA-R&E240200007A-LE Certificate #5768.01 For Ouestion Conducted RF Spurious Emission Please Contact with WSCT www.wsct-cert.com Test Graphs Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref Spectrum Analyzer 1 Swept SA + #Avg Type: Power (RMS 1 2 3 4 5 6 Avg|Hold: 100/100 Trig: Free Run M W W W W W Input Z: 50 Ω #Atten: 30 dB PNO: Best Wide KEYSIGHT Input: RF Corr CCorr Freq Ref: Int (S) Gate: Off IF Gain: Low Sig Track: Off  $M \Leftrightarrow W \Leftrightarrow W \Leftrightarrow W$ Align: Auto Mkr1 2.401 748 60 GHz Ref LvI Offset 4.19 dB -3.23 dBm Scale/Div 10 dB Ref Level 20.00 dBm Center 2.4020000 GHz #Video BW 300 kHz Span 1.500 MHz Sweep 2.00 ms (30001 pts) #Res BW 100 kHz Feb 25, 2024 2:35:48 PM Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission Spectrum Analyzer 1 Swept SA + Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) #Avg Type: Power (RMS 1 2 3 4 5 6 Avg|Hold: 10/10 Trig: Free Run #Atten: 30 dB PNO: Fast KEYSIGHT Input: RF Gate: Off IF Gain: Low Sig Track: Off  $M \times \times \times \times \times \times$ Align: Auto Mkr1 2.401 7 GHz Ref Lvl Offset 4.19 dB -4.27 dBm Scale/Div 10 dB Ref Level 20.00 dBm DL1-23.23 dE **∆**4 **∆**5 Start 30 MHz #Video BW 300 kHz Stop 26.50 GHz Sweep ~2.53 s (30001 pts)



5 Marker Table

Mode

N N

N

Scale

2.401 7 GHz

26.405 6 GHz 4.948 1 GHz 7.232 5 GHz

9.777 1 GHz

Feb 25, 2024 2:36:21 PM

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Function Width

Function Value

III 🔌

Function

-4.267 dBm

-46.91 dBm -52.45 dBm

-53.10 dBm

-52.87 dBm







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# 6.7. Radiated Spurious Emission Measurement

7	6.7.1. Test Specification						
	Test Requirement:	FCC Part15	C Section	n 15.209			X
	Test Method:	ANSI C63.10	):2014	AV/-1-07	1		WETER
Ī	Frequency Range:	9 kHz to 25 (	GHz		1	/	,
	Measurement Distance:	3 m					
	Antenna Polarization:	Horizontal &	Vertical		177	TA	
	Operation mode:	Refer to item	4.1				
		Frequency	Detector		VBW		temark
2	17/57-97	9kHz- 150kHz	Quasi-pea	2 1 A 20 TO 1 TO 1	1kHz		peak Value
	Receiver Setup:	150kHz- 30MHz	Quasi-pea	ak 9kHz	30kHz	Quasi-	-peak Value
	X	30MHz-1GHz	Quasi-pea	ak 100KHz	300KHz	Quasi-	peak Value
		Above 1GHz	Peak	1MHz	3MHz	Pea	ak Value
_	AV25 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Above 1G112	Peak	1MHz	10Hz	Aver	age Value
				Field Stre	an oth	Maa	surement
	X	Frequen	су	(microvolts	-		ce (meters)
		0.009-0.4	190	2400/F(I	,	Distant	300
	WE THE	0.490-1.7	-	24000/F(	412		30
		1.705-3		30		/	30
	$\vee$	30-88		100			3
	$\wedge$	88-216	3 /	150			3
	Limit:	216-96	0	200	freeze		3
7	CI FINE	Above 9	60	500	/ IFT	4/8	3
	X	X	Fie	eld Strength	Measure		X
1		Frequency		rovolts/meter)	Distan		Detector
À	175741	AWSTAN		500	(meter	S)	Average
		Above 1GHz		5000	3	/	Peak
	$\times$		X				1 Car
	WE19 WE19	For radiated	emission	s below 30	)MHz	-	
7		Di	stance = 3m			Compute	er
	X	+	<b></b>				
			1		Pre -	-Amplifier	
1	Test setup:		\	$\smile$ [			
	root sotup.	EUT	_				
		<b> </b>	☐ Turn table				
	$\wedge$				_ 니;	Receiver	
	August Au		Ţ	and Plane	L		1
100	ation & Testino			ing Fidile	/		1
4	ation & Testino Ga	30MHz to 10	SHz				/

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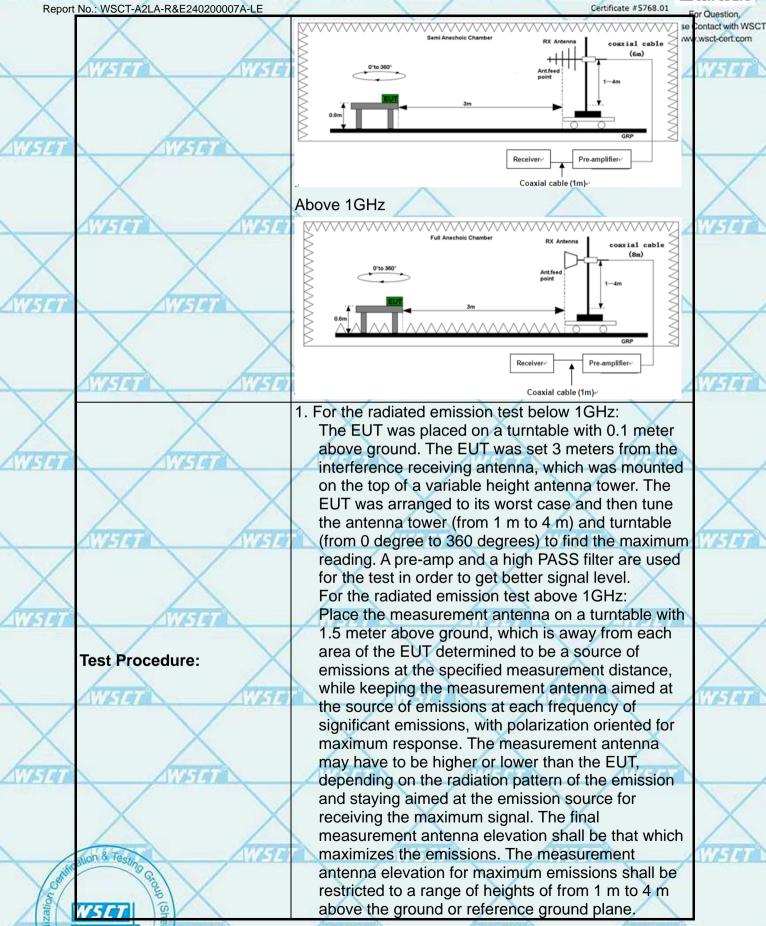
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		V (************************************	
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	X	2. Corrected Reading: Antenna Factor + Cable Los	SSP#pase Contact with WSCT www.wsct-cert.com
		Read Level - Preamp Factor = Level	
	WAS IN	3. For measurement below 1GHz, If the emission I	evel
		of the EUT measured by the peak detector is 3	dB
		lower than the applicable limit, the peak emission	
		level will be reported. Otherwise, the emission	
		measurement will be repeated using the quasi-	neak
AWSLT	11/57.57	detector and reported.	pount
A CONTRACTOR OF THE PARTY OF TH			
		4. Use the following spectrum analyzer settings:	
		(1) Span shall wide enough to fully capture the	
A.	ATTENDED TOTAL	emission being measured;	10733
	CIFIA I	(2) Set RBW=100 kHz for f < 1 GHz; VBW ≥RE	3W;
1/		Sweep = auto; Detector function = peak; Tra	ace =
X	X	max hold;	
		(3) Set RBW = 1 MHz, VBW= 3MHz for f $\square$ 1 (	CH2
AWSET	WSET	for peak measurement.	74
		For average measurement: VBW = 10 Hz, whe	n
	X	X	X
		duty cycle is no less than 98 percent. VBW ≥	
	AVETE AVETE	when duty cycle is less than 98 percent where	F 1 1 APR F ARE 1881
		the minimum transmission duration over which	
		transmitter is on and is transmitting at its maxin	num
		power control level for the tested mode of operation	ation.
house	Test mode:	Refer to section 4.1 for details	
A CONTRACTOR OF THE CONTRACTOR	1 OCC III OCC		
118198	T	AIPIGE /IIP	744
7117171	Test results:	PASS	744
711-198	Test results:	AIPIGE /IIP	
	Test results:	AIPIGE /IIP	
	Test results:	AIPIGE /IIP	Wester a
	Test results:	AIPIGE /IIP	NI ETER
	Test results:	AIPIGE /IIP	175950
X	Test results:	AIPIGE /IIP	17,57,67
W/43-44-	WEIGH	PASS	176700
NVSTATI	Test results:	AIPIGE /IIP	775741
N/ST41	WEIGH	PASS	177.70
NVF141	WEIGH	PASS	777
WETER	WETER	PASS	X
NETO	WEIGH	PASS	Witter
WETA	WETER	PASS	X
WETER	WETER	PASS	X
N15141	WETER	PASS	X
X	WEIGHT WEIGH	PASS WSG WSG	WISTET
NVET 41	WETER	PASS WSG WSG	X
X	WEIGHT WEIGH	PASS WSG WSG	WISTET
X	WEIGHT WEIGH	PASS WSG WSG	WISTET
NVETTI	WESTER WESTER	PASS WISTER WISTER	Witter
NVETTI	WESTER WESTER	PASS WESTER WESTER	WISTET
NVETTI	WESTER WESTER	PASS WISTER WISTER	Witter
NVETTI	WESTER WESTER	PASS WISTER WISTER	Witter

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#### 6.7.2. Test Data

## Please refer to following diagram for individual

## **Below 1GHz** Horizontal: dBuV/m 87.0 67 FCC Part15 RE-Class B\_30-1000MHz 57 Margin -6 dB 47 37 peak 27 7 -3 -13 -23 -33

		TO THE PART AND THE PART OF TH		AL THE REPORT AND ADDRESS OF THE PARTY AND ADD		TO SELECT ON THE SELECT		10.0
×	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	38.6552	32.10	-11.63	20.47	40.00	-19.53	QP
67	2	55.5514	32.31	-10.24	22.07	40.00	-17.93	QP
	3	87.4854	34.45	-14.62	19.83	40.00	-20.17	QP
	4	183.8880	32.78	-9.73	23.05	43.50	-20.45	QP
	5	806.7357	30.60	1.11	31.71	46.00	-14.29	QP
	6 *	912.5278	31.00	2.59	33.59	46.00	-12.41	QP

(MHz)

300.00

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30.000

60.00

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					Market Statement of F			
1.2	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	30.5333	35.12	-14.17	20.95	40.00	-19.05	QP
-	2	76.0644	32.95	-12.86	20.09	40.00	-19.91	QP
	3	160.0014	31.33	-9.83	21.50	43.50	-22.00	QP
/	4	247.6906	30.16	-10.62	19.54	46.00	-26.46	QP
V	5	659.7772	29.27	-0.98	28.29	46.00	-17.71	QP
	6 *	844.3733	30.69	1.43	32.12	46.00	-13.88	QP

**Note:** 1. The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported

- 2. Measurements were conducted in all three channels (high, middle, low), and the worst case Mode (Middle channel) was submitted only.
- Reading level (dBμV) = Receiver reading
   Corr. Factor (dB) = Attenuation factor + Cable loss
   Level (dBμV) = Reading level (dBμV) + Corr. Factor (dB)
   Limit (dBμV) = Limit stated in standard
   Margin (dB) = Level (dBμV) Limits (dBμV)

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#### **Above 1GHz**

Frog	Low channel: 2402MHz								
Freq. (MHz)	Ant.Pol	Emission I	_evel(dBuV)	Limit 3m(dBuV/m)		Over(dB)			
(IVIITZ)	H/V	PK	AV	PK	AV	PK	AV		
4804	V	59.33	40.61	74	54	-14.67	-13.39		
7206	V	58.26	39.45	74	54	-15.74	-14.55		
4804	TETTE	59.72	39.37	74	54	-14.28	-14.63		
7206	Н	58.85	39.85	74	54	-15.15	-14.15		

	Eroa	Middle channel: 2440MHz						
	Freq. (MHz)	Ant.Pol	Emission I	_evel(dBuV)	Limit 3m(dBuV/m)		Over(dB)	
	(IVI□Z)	H/V	PK	AV	PK	AV	PK	AV
Ī	4880	V	60.14	39.49	74	54	-13.86	-14.51
	7320	V	58.98	39.93	74	54	-15.02	-14.07
	4880	TA'HAT	59.70	39.47	74	54	-14.30	-14.53
	7320	Н	59.99	40.99	74	54	-14.01	-13.01

4	Erog	High channel: 2480 MHz								
	Freq. (MHz)	Ant.Pol	Emission I	_evel(dBuV)	Limit 3m	(dBuV/m)	Ove	r(dB)		
		H/V	PK	AV	PK	AV	PK	AV		
	4960	V	60.52	41.52	74	54	-13.48	-12.48		
	7440	V	58.59	39.93	74	54	-15.41	-14.07		
ì	4960	METT	58.59	40.13	74	54	-15.41	-13.87		
	7440	H	59.28	40.28	74	54	-14.72	-13.72		

#### Note:

Sugnature World

- 1. All emissions not reported were more than 20dB below the specified limit or in the noise floor.
- 2. Emission Level= Reading Level+Probe Factor +Cable Loss.
- 3. Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

WE-14	WSLIT	WETA	AVE !	10	-70
		X	X	X	X
NIZ.	Ter W	Hal	WSGT	WEIGH	AVISET
WEIGH	NV5101	WEIGH	X		57.0
		X	X	X	X
Non & Te		474	NISTE .	WEIGH	W514

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#### **Restricted Bands Requirements**

Test result for GFSK Mode (the worst case)

	rest result for	OI OIL MOO	ic the we	ist case			LA THE IS		9
	Frequency	Reading	Correct Factor	Emission Level	Limit	Margin	Polar	Detector	
\	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V		
3		WASTER	/	Low Chan	nel	2700		ALFIE	
	2390	65.71	-8.73	56.98	74	-17.02	H/	PK	
	2390	47.94	-8.73	39.21	54	-14.79	X	AV	
	2390	67.53	-8.73	58.80	74	-15.20	V	PK	j
	2390	46.33	-8.73	37.60	54	-16.40	V	AV	-
		X		High Chan	nel	X		X	
	2483.5	68.72	-8.17	60.55	74	-13.45	Н	PK	
ý	2483.5	48.28	-8.17	40.11	54	-13.89	Ι	AV	1
	2483.5	66.27	-8.17	58.10	74	-15.90	V	PK	
	2483.5	48.53	-8.17	40.36	54	-13.64	V	AV	

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世际检察认证数 \* Poly aroup (Shenzhen) Co. Li

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