

Report No.: SHCR210800003204

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1 Cover Page

RF Exposure Evaluation Report

Application No.: SHCR2108000032AT **FCC ID**: 2A5PE-YUSHU001

Applicant: Unitree

Address of Applicant: 3rd Floor, Building 1, Fengda Creative Park, No. 88 Dongliu Road, Binjiang

District, Hangzhou, Zhejiang, China

Manufacturer: Unitree

Address of Manufacturer: 3rd Floor, Building 1, Fengda Creative Park, No. 88 Dongliu Road, Binjiang

District, Hangzhou, Zhejiang, China

Factory: Unitree

Address of Factory: 3rd Floor, Building 1, Fengda Creative Park, No. 88 Dongliu Road, Binjiang

District, Hangzhou, Zhejiang, China

Equipment Under Test (EUT):

EUT Name: Quadruped Robot

Model No.: Go1,Go1 Air,Go1 Edu,Go1 Pro,Go1 Max,Go1 Nx,Go1 Pro Max¤

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

Standard(s): FCC Rules 47 CFR §2.1091

KDB 447498 D04 Interim General RF Exposure Guidance v01

Date of Receipt: 2021-09-02

Date of Test: 2021-11-05 to 2022-01-07 and 2022-05-05

Date of Issue: 2022-05-05

Test Result: Pass*

parlan shan

Parlam Zhan Laboratory Manager

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



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Revision Record									
Version	Description	Date	Remark						
00	Original	2022-03-07	1						
01	Added UWB assessment	2022-05-05	1						

Authorized for issue by:			
	Wade Thang		
	Wade Zhang / Project Engineer	_	
	Parlam Zhan		
	Parlam Zhan /Reviewer	-	



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3 General Information

3.1 General Description of E.U.T.

Power supply: DC 22.2V 6Ah Battery

Charger:

Model: KS150DU-2520600

Input: AC 100-240V, 50/60Hz, 2.5A

Output: DC 25.2V 6.0A

3.2 Technical Specifications

5G WiFi:

Operation Frequency:	Band	Mode	Frequency Range(MHz)	Number of channels					
	UNII Band III	802.11a/n(HT20)/ac(HT20)	5745-5825	5					
		802.11n(HT40)/ac(HT40)	5755-5795	2					
		802.11ac(HT80)	5775	1					
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK)		1					
	802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM)							
	802.11ac: OFDM	(BPSK, QPSK, 16QAM, 64QAM	l, 256QAM)						
Date Rate:	802.11a:6/9/12/1	8/24/36/48/54Mbps							
	802.11n: MCS0-MCS7								
	802.11ac: VHT M	ICS0-MCS7							
Channel Spacing:	802.11a/n(HT20)	/ac(HT20): 20MHz							
	802.11n(HT40)/a	c(HT40): 40MHz							
	802.11ac(HT80):	80MHz							
TPC Function:	Not support								
DFS Function:	Slaver without ra	dar detection							
Antenna Gain:	Antenna 1: 4dBi								
	Antenna 2: 4dBi								
	,	(Provided by manufacturer)							
	Directional gain:								
Antenna Type:	Antenna 1: Dipol								
	Antenna 2: Dipole antenna								

UWB:

UVVD.	
Location for use:	Indoors and Outdoors
Antenna Gain:	0dBi (Provided by manufacturer)
Antenna Type:	Dipole Antenna
Modulation Type:	BPM-BPSK
Number of Channels:	1
Frequency range:	4492.8MHz (3100MHz-10600MHz)



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LTE:

Supported Frequency Range UMTS BAND II UMTS BAND IV 1710 to 1755 MHz 2110 to 2155 MHz UMTS BAND V 824 to 849 MHz ETE BAND 2 LTE BAND 4 LTE BAND 5 824 to 849 MHz 1930 to 1990 MHz 2110 to 2155 MHz 2110 to 2155 MHz 869 to 894 MHz 2110 to 2155 MHz 2110 to 2155 MHz 869 to 894 MHz										
Sample Type:	Hardware Version:	R1.0								
Antenna Type:	Software Version:									
GSM850: 2.29dBi; GSM1900:1.59dBi WCDMA BAND VI:2dBi WCDMA BAND VI:2dBi WCDMA BAND VI:2dBi WCDMA BAND VI:2dBi; LTE BAND 2:1.59dBi; LTE BAND 4:2dBi; LTE BAND 5:2.29dBi; LTE BAND 1:3 :4.5dBi; LTE BAND 1:3 :4.45dBi; LTE BAND 1:3 :4.45dBi; LTE BAND 25: 1.59dBi; LTE BAND 26: 2.53dBi; LTE BAND 38: 2.06dBi; LTE BAND 41: 3dBi; LTE BAND 41										
GSM1900:1.59dBi WCDMA BAND II:1.59dBi WCDMA BAND V:2:dBi WCDMA BAND V:2:dBi WCDMA BAND V:2:29dBi LTE BAND 4:2:dBi; LTE BAND 4:2:dBi; LTE BAND 4:2:dBi; LTE BAND 12: 3.26dBi; LTE BAND 12: 3.26dBi; LTE BAND 12: 3.26dBi; LTE BAND 13: 4.45dBi; LTE BAND 26: 2.53dBi; LTE BAND 26: 2.53dBi; LTE BAND 26: 2.53dBi; LTE BAND 26: 2.53dBi; LTE BAND 41: 3dBi; LTE B	Antenna Type:									
Characteristics Description	Antenna Gain:	GSM1900:1.59dBi WCDMA BAND II:1.59dBi WCDMA BAND VI:2dBi WCDMA BAND V:2.29dBi LTE BAND 2:1.59dBi; LTE BAND 4:2dBi; LTE BAND 5:2.29dBi; LTE BAND 7: 3dBi; LTE BAND 12: 3.26dBi; LTE BAND 13: 4.45dBi; LTE BAND 25: 1.59dBi; LTE BAND 26: 2.53dBi; LTE BAND 38: 2.06dBi;								
Radio System Type	Characteristics									
Radio System Type ☑ UMTS ☑ LTE BAND TX RX GSM850 824 to 849 MHz 869 to 894 MHz GSM1900 1850 to 1910 MHz 1930 to 1990 MHz UMTS BAND II 1850 to 1910 MHz 1930 to 1990 MHz UMTS BAND IV 1710 to 1755 MHz 2110 to 2155 MHz UMTS BAND V 824 to 849 MHz 869 to 894 MHz LTE BAND 2 1850 to 1910 MHz 1930 to 1990 MHz LTE BAND 4 1710 to 1755 MHz 2110 to 2155 MHz LTE BAND 5 824 to 849 MHz 869 to 894 MHz LTE BAND 7 2500 to 2570 MHz 2620 to 2690 MHz	Onaractoristics	•								
Supported Frequency Range BAND TX RX RX GSM850 824 to 849 MHz 869 to 894 MHz 1930 to 1990	Dadia System Type									
BAND TX RX GSM850 824 to 849 MHz 869 to 894 MHz GSM1900 1850 to 1910 MHz 1930 to 1990 MHz UMTS BAND II 1850 to 1910 MHz 1930 to 1990 MHz UMTS BAND IV 1710 to 1755 MHz 2110 to 2155 MHz UMTS BAND V 824 to 849 MHz 869 to 894 MHz LTE BAND 2 1850 to 1910 MHz 1930 to 1990 MHz LTE BAND 4 1710 to 1755 MHz 2110 to 2155 MHz LTE BAND 5 824 to 849 MHz 869 to 894 MHz LTE BAND 7 2500 to 2570 MHz 869 to 894 MHz	Radio System Type	_								
Supported Frequency Range GSM850 824 to 849 MHz 869 to 894 MHz 1930 to 1990 MHz UMTS BAND II 1850 to 1910 MHz 1930 to 1990 MHz UMTS BAND IV 1710 to 1755 MHz 2110 to 2155 MHz UMTS BAND V 824 to 849 MHz 869 to 894 MHz 1710 to 1755 MHz 1930 to 1990 MHz 1710 to 1755 MHz 1710 to 2155 MHz			T	1						
Supported Frequency Range GSM1900 1850 to 1910 MHz 1930 to 1990 MHz UMTS BAND II 1850 to 1910 MHz 1930 to 1990 MHz UMTS BAND IV 1710 to 1755 MHz 2110 to 2155 MHz UMTS BAND V 824 to 849 MHz 1930 to 1990 MHz LTE BAND 2 1850 to 1910 MHz 1930 to 1990 MHz 1710 to 1755 MHz 2110 to 2155 MHz LTE BAND 4 1710 to 1755 MHz 2110 to 2155 MHz LTE BAND 5 824 to 849 MHz 869 to 894 MHz LTE BAND 7 2500 to 2570 MHz 2620 to 2690 MHz										
Supported Frequency Range UMTS BAND II UMTS BAND IV 1710 to 1755 MHz 2110 to 2155 MHz UMTS BAND V 824 to 849 MHz ETE BAND 2 LTE BAND 4 LTE BAND 4 LTE BAND 5 824 to 849 MHz 1930 to 1990 MHz 1930 to 1990 MHz 1930 to 2155 MHz 2110 to 2155 MHz		GSM850	824 to 849 MHz	869 to 894 MHz						
Supported Frequency Range UMTS BAND IV UMTS BAND V 824 to 849 MHz 1710 to 1755 MHz 2110 to 2155 MHz WMTS BAND V LTE BAND 2 1850 to 1910 MHz 1930 to 1990 MHz LTE BAND 4 LTE BAND 5 824 to 849 MHz 2110 to 2155 MHz 2110 to 2155 MHz LTE BAND 7 2500 to 2570 MHz 2620 to 2690 MHz		GSM1900	1850 to 1910 MHz	1930 to 1990 MHz						
Supported Frequency Range UMTS BAND V 824 to 849 MHz 869 to 894 MHz LTE BAND 2 1850 to 1910 MHz 1930 to 1990 MHz LTE BAND 4 1710 to 1755 MHz 2110 to 2155 MHz LTE BAND 5 824 to 849 MHz 869 to 894 MHz LTE BAND 7 2500 to 2570 MHz 2620 to 2690 MHz		UMTS BAND II	1850 to 1910 MHz	1930 to 1990 MHz						
Range LTE BAND 2 LTE BAND 4 LTE BAND 5 B24 to 849 MHz 1930 to 1990 MHz LTE BAND 5 B24 to 849 MHz 2110 to 2155 MHz LTE BAND 7 2500 to 2570 MHz 2620 to 2690 MHz		UMTS BAND IV 1710 to 1755 MHz 2110 to 2155								
LTE BAND 2 1850 to 1910 MHz 1930 to 1990 MHz LTE BAND 4 1710 to 1755 MHz 2110 to 2155 MHz LTE BAND 5 824 to 849 MHz 869 to 894 MHz LTE BAND 7 2500 to 2570 MHz 2620 to 2690 MHz		UMTS BAND V	824 to 849 MHz	869 to 894 MHz						
LTE BAND 5 824 to 849 MHz 869 to 894 MHz LTE BAND 7 2500 to 2570 MHz 2620 to 2690 MHz	range	LTE BAND 2	1850 to 1910 MHz	1930 to 1990 MHz						
LTE BAND 7 2500 to 2570 MHz 2620 to 2690 MHz		LTE BAND 4	1710 to 1755 MHz	2110 to 2155 MHz						
		LTE BAND 5	824 to 849 MHz	869 to 894 MHz						
LTE BAND 12 699 to 716 MHz 729 to 746 MHz		LTE BAND 7	2500 to 2570 MHz	2620 to 2690 MHz						
		LTE BAND 12	699 to 716 MHz	729 to 746 MHz						



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	LTE BAND 13	777 to 787 MHz	746 to 756 MHz			
	LTE BAND 25	1850 to 1915MHz	1930 to 1995 MHz			
	LTE BAND 26	814 to 824MHz	859 to 869 MHz			
	(814 to 824 MHz)	014 10 024111112	033 to 003 WH IZ			
	LTE BAND 26	024 - 040 MIL	000 - 004 MIL			
	(824 to 849 MHz)	824 to 849 MHz	869 to 894 MHz			
	LTE BAND 38	2570 to 2620MHz	2570 to 2620MHz			
	LTE BAND 41	2496 to 2690MHz	2496 to 2690MHz			
Target TX Output Power	GSM850:35 dBm GSM1900: 32dBm UMTS BAND II: 25dBm UMTS BAND IV: 25dBm UMTS BAND V: 25dBm LTE BAND 2: 25dBm LTE BAND 4: 25dBm LTE BAND 5: 25dBm LTE BAND 7: 25dBm LTE BAND 12: 25dBm LTE BAND 13: 25dBm LTE BAND 25: 25dBm LTE BAND 25: 25dBm LTE BAND 26: 25dBm LTE BAND 38: 25dBm LTE BAND 38: 25dBm LTE BAND 41: 25dBm					
	GSM system:	⊠0.2 MHz				
	UMTS system:					
	LTE BAND 2	5 MHz; ⊠10 MHz;				
	LTE BAND 4	 ∑15 MHz, ∑20 MHz ∑1.4 MHz; ∑3 MHz; ∑3 ∑15 MHz, ∑20 MHz 	5 MHz; ⊠10 MHz;			
	LTE BAND 5	∑1.4 MHz; ∑3 MHz; ∑!				
Supported Channel	LTE BAND 7		15 MHz, ⊠20 MHz			
Supported Channel	LTE BAND 7 LTE BAND 12	⊠5 MHz; ⊠10 MHz; ⊠ ⊠1.4 MHz;⊠3 MHz; ⊠	15 MHz, ⊠20 MHz			
Supported Channel Bandwidth	LTE BAND 7		15 MHz, ⊠20 MHz 5 MHz; ⊠10 MHz			
	LTE BAND 7 LTE BAND 12		15 MHz, ⊠20 MHz 5 MHz; ⊠10 MHz			
	LTE BAND 7 LTE BAND 12 LTE BAND 13		15 MHz, ⊠20 MHz 5 MHz; ⊠10 MHz 5 MHz; ⊠10 MHz;			
	LTE BAND 7 LTE BAND 12 LTE BAND 13 LTE BAND 25		15 MHz, ⊠20 MHz 5 MHz; ⊠10 MHz 5 MHz; ⊠10 MHz; 5 MHz; ⊠10 MHz;			
	LTE BAND 7 LTE BAND 12 LTE BAND 13 LTE BAND 25 LTE BAND 26(814-824)	□ 5 MHz; □ 10 MHz; □ □ 1.4 MHz; □ 3 MHz; □ □ 5 MHz; □ 10 MHz □ 1.4 MHz; □ 3 MHz; □ □ 1.5 MHz, □ 20 MHz □ 1.4 MHz; □ 3 MHz; □ □ 1.4 MHz; □ 3 MHz; □ □ 1.5 MHz	15 MHz, ⊠20 MHz 5 MHz; ⊠10 MHz 5 MHz; ⊠10 MHz; 5 MHz; ⊠10 MHz; 5 MHz; ⊠10 MHz;			
	LTE BAND 7 LTE BAND 12 LTE BAND 13 LTE BAND 25 LTE BAND 26(814-824) LTE BAND 26(824-849)	□ 5 MHz; □ 10 MHz; □ □ 1.4 MHz; □ 3 MHz; □ □ 5 MHz; □ 10 MHz □ 1.4 MHz; □ 3 MHz; □ □ 15 MHz, □ 20 MHz □ 1.4 MHz; □ 3 MHz; □ □ 1.4 MHz; □ 3	15 MHz, ⊠20 MHz 5 MHz; ⊠10 MHz 5 MHz; ⊠10 MHz; 5 MHz; ⊠10 MHz; 5 MHz; ⊠10 MHz; 15 MHz, ⊠20 MHz			
	LTE BAND 7 LTE BAND 12 LTE BAND 13 LTE BAND 25 LTE BAND 26(814-824) LTE BAND 26(824-849) LTE BAND38	□ 5 MHz; □ 10 MHz; □ □ 1.4 MHz; □ 3 MHz; □ □ 5 MHz; □ 10 MHz □ 1.4 MHz; □ 3 MHz; □ □ 1.5 MHz □ 1.5 MHz □ 1.5 MHz; □ 10 MHz; □ □ 1.5 MHz; □ 10 MHz; □ 10 MHz; □ □ 1.5 MHz; □ 10	15 MHz, ⊠20 MHz 5 MHz; ⊠10 MHz 5 MHz; ⊠10 MHz; 5 MHz; ⊠10 MHz; 5 MHz; ⊠10 MHz; 15 MHz, ⊠20 MHz			
Bandwidth Characteristics	LTE BAND 7 LTE BAND 12 LTE BAND 13 LTE BAND 25 LTE BAND 26(814-824) LTE BAND 26(824-849) LTE BAND38 LTE BAND41	□ 5 MHz; □ 10 MHz; □ □ 1.4 MHz; □ 3 MHz; □ □ 5 MHz; □ 10 MHz □ 1.4 MHz; □ 3 MHz; □ □ 1.5 MHz □ 15 MHz □ 5 MHz; □ 10 MHz; □ □ 5 MHz; □ 10 MHz; □ □ 247KGXW; 245KG7W	15 MHz, ⊠20 MHz 5 MHz; ⊠10 MHz 5 MHz; ⊠10 MHz; 5 MHz; ⊠10 MHz; 5 MHz; ⊠10 MHz; 15 MHz, ⊠20 MHz			
Bandwidth Characteristics Designation of	LTE BAND 7 LTE BAND 12 LTE BAND 13 LTE BAND 25 LTE BAND 26(814-824) LTE BAND 26(824-849) LTE BAND38 LTE BAND41 Description	□ 5 MHz; □ 10 MHz; □ □ 1.4 MHz; □ 3 MHz; □ □ 5 MHz; □ 10 MHz □ 1.4 MHz; □ 3 MHz; □ □ 1.5 MHz □ 15 MHz □ 5 MHz; □ 10 MHz; □ □ 5 MHz; □ 10 MHz; □ □ 10 MHz; □ 10 MHz; □ 10 MHz; □ □ 10 MHz; □ 10 MHz; □ 10 MHz; □ 10 MHz; □ □ 10 MHz;	15 MHz, ⊠20 MHz 5 MHz; ⊠10 MHz 5 MHz; ⊠10 MHz; 5 MHz; ⊠10 MHz; 5 MHz; ⊠10 MHz; 15 MHz, ⊠20 MHz			
Bandwidth Characteristics	LTE BAND 7 LTE BAND 12 LTE BAND 13 LTE BAND 25 LTE BAND 26(814-824) LTE BAND 26(824-849) LTE BAND38 LTE BAND41 Description GSM850	□ 5 MHz; □ 10 MHz; □ □ 1.4 MHz; □ 3 MHz; □ □ 5 MHz; □ 10 MHz □ 1.4 MHz; □ 3 MHz; □ □ 1.5 MHz □ 15 MHz □ 5 MHz; □ 10 MHz; □ □ 5 MHz; □ 10 MHz; □ □ 247KGXW; 245KG7W	15 MHz, ⊠20 MHz 5 MHz; ⊠10 MHz 5 MHz; ⊠10 MHz; 5 MHz; ⊠10 MHz; 5 MHz; ⊠10 MHz; 15 MHz, ⊠20 MHz			
Bandwidth Characteristics Designation of Emissions	LTE BAND 7 LTE BAND 12 LTE BAND 13 LTE BAND 25 LTE BAND 26(814-824) LTE BAND 26(824-849) LTE BAND38 LTE BAND41 Description GSM850 GSM1900 UMTS BAND II		15 MHz, ⊠20 MHz 5 MHz; ⊠10 MHz 5 MHz; ⊠10 MHz; 5 MHz; ⊠10 MHz; 5 MHz; ⊠10 MHz; 15 MHz, ⊠20 MHz			
Characteristics Designation of Emissions (Remark: the necessary	LTE BAND 7 LTE BAND 12 LTE BAND 13 LTE BAND 25 LTE BAND 26(814-824) LTE BAND 26(824-849) LTE BAND38 LTE BAND41 Description GSM850 GSM1900 UMTS BAND II		15 MHz, ⊠20 MHz 5 MHz; ⊠10 MHz 5 MHz; ⊠10 MHz; 5 MHz; ⊠10 MHz; 5 MHz; ⊠10 MHz; 15 MHz, ⊠20 MHz			
Bandwidth Characteristics Designation of Emissions	LTE BAND 7 LTE BAND 12 LTE BAND 13 LTE BAND 25 LTE BAND 26(814-824) LTE BAND 26(824-849) LTE BAND38 LTE BAND41 Description GSM850 GSM1900 UMTS BAND II UMTS BAND IV	□ S MHz; □ 10 MHz; □ S MHz; □ 1.4 MHz; □ 3 MHz; □ 1.5 MHz; □ 10 MHz □ 1.4 MHz; □ 20 MHz □ 1.4 MHz; □ 3 MHz; □ 1.4 MHz; □ 3 MHz; □ 1.4 MHz; □ 3 MHz; □ 1.5 MHz □ 1.5 MHz; □ 1.0	15 MHz, ⊠20 MHz 5 MHz; ⊠10 MHz 5 MHz; ⊠10 MHz; 5 MHz; ⊠10 MHz; 5 MHz; ⊠10 MHz; 15 MHz, ⊠20 MHz			



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the management of the second	Г	AMAGGZD-AMAGWZD
the measured occupied		4M48G7D;4M49W7D
bandwidths for each		8M93G7D;8M93W7D
type of channel		13M5G7D;13M5W7D
bandwidth		17M9G7D;17M9W7D
configuration.)		1M10G7D;1M09W7D
comiguration.)		2M70G7D;2M69W7D
	LTE BAND 4	4M48G7D;4M49W7D
	LIE BAND 4	8M93G7D;8M91W7D
		13M4G7D;13M4W7D
		17M9G7D;17M9W7D
		1M09G7D;1M09W7D
	LTE BAND C	2M70G7D;2M69W7D;
	LTE BAND 5	4M48G7D;4M49W7D
		8M93G7D;8M93W7D
		4M48G7D;4M49W7D
	LTE DANIE 7	8M93G7D;8M91W7D
	LTE BAND 7	13M5G7D;13M4W7D
		17M9G7D;17M9W7D
		1M09G7D:1M09W7D
	l	2M70G7D:2M69W7D
	LTE BAND 12	4M48G7D;4M50W7D
		8M93G7D;8M93W7D
		4M48G7D;4M49W7D
	LTE BAND13	8M91G7D;8M91W7D
		1M09G7D;1M09W7D
		2M70G7D;2M69W7D
		4M47G7D;4M49W7D
	LTE BAND 25	
		8M91G7D;8M95W7D
		13M5G7D;13M4W7D
		17M9G7D;17M9W7D
	LTE DAND 20	1M09G7D;1M09W7D
	LTE BAND 26	2M70G7D;2M69W7D
	(814-824)	4M48G7D;4M50W7D
to in		8M91G7D;8M91W7D
		1M09G7D;1M09W7D
	LTE BAND 26	2M70G7D;2M69W7D
	(824-849)	4M48G7D;4M49W7D
	(024-045)	8M95G7D;8M93W7D
		13M5G7D;13M4W7D
		4M48G7D;4M49W7D
	LTE DAND 30	8M91G7D;8M91W7D
	LTE BAND 38	13M5G7D;13M5W7D
		17M8G7D:17M8W7D
		4M48G7D;4M50W7D
	l	8M91G7D;8M91W7D
	LTE BAND 41	13M5G7D;13M5W7D
		17M9G7D;17M9W7D
	I	Trinsorb, Trinstrib



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3.3 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab 588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

No tests were sub-contracted.

3.4 Test Facility

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

CNAS (No. CNAS L0599)

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

A2LA (Certificate No. 6332.01)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

• FCC (Designation Number: CN1301)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

• ISED (CAB Identifier: CN0020)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory Company Number: 8617A

VCCI (Member No.: 3061)

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.



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4 Test Standards and Limits

4.1 FCC Radiofrequency radiation exposure limits:

According to §1.1310, the limit for general population/uncontrolled exposures

Frequency	Power density(mW/cm²)	Averaging time(minutes)		
300MHz~1.5GHz	f/1500	30		
1.5GHz~100GHz	1.0	30		

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5 Measurement and Calculation

5.1 Maximum transmit power

The Power Data is based on the RF Test Report SHCR210800003202-5G WiFi.

	Test		ower [dBm			ower [mW]
Test Mode	Channel	ANT1	ANT2	MIMO	ANT1	ANT2	MIMO
11A	5745	13.65	14.31	N/A	23.17	26.98	N/A
11A	5785	13.58	13.84	N/A	22.80	24.21	N/A
11A	5825	13.58	14.1	N/A	22.80	25.70	N/A
11N20	5745	12.92	14.09	16.55	19.59	25.64	45.19
11N20	5785	13.44	13.98	16.73	22.08	25.00	47.10
11N20	5825	13.55	13.84	16.71	22.65	24.21	46.88
11N40	5755	14.17	15	17.62	26.12	31.62	57.81
11N40	5795	14.4	14.86	17.65	27.54	30.62	58.21
11AC20	5745	12.95	13.92	16.47	19.72	24.66	44.36
11AC20	5785	13.41	14.2	16.83	21.93	26.30	48.19
11AC20	5825	13.51	14	16.77	22.44	25.12	47.53
11AC40	5755	14.09	15.12	17.65	25.64	32.51	58.21
11AC40	5795	14.41	14.93	17.69	27.61	31.12	58.75
11AC80	5775	14.55	15.2	17.90	28.51	33.11	61.66

The Power Data is based on the RF Test Report SHCR210800003203-UWB.

	Measured
Frequency (MHz)	Radiated Output
	Power (dBm)
4492.8	-53.61



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The Power Data is based on the RF Test Report HR/2019/1001601-LTE.

Operating Band	Frequency (MHz)	Antenna Gain (dBi)	Max Conducted Average Output Power (dBm)	Output Power to Antenna (dBm)	EIRP(ERP) Limit (dBm)	Output Power to Antenna (mw)	Power Density at R = 20 cm (mW/cm2)	Limit (mW/cm2)	Gain according to EIRP (dBi)	Gain according to Pd (dBi)	Max Gain Allowed (dBi)	conclusion
GSM850	824.2	2.29	25.81	25.95	38.45	381.0658	0.1284	0.5495	14.79	8.60	8.60	Pass
GSM1900	1850.2	1.59	22.81	24.40	33.00	190.9853	0.0548	1.0000	10.19	14.20	10.19	Pass
WCDMAB2	1852.4	1.59	25.00	26.59	33.00	316.2278	0.0907	1.0000	8.00	12.01	8.00	Pass
WCDMAB4	1712.4	2.00	25.00	27.00	30.00	316.2278	0.0997	1.0000	5.00	12.01	5.00	Pass
WCDMAB5	826.4	2.29	25.00	25.14	38.45	316.2278	0.1066	0.5509	15.60	9.42	9.42	Pass
LTE B2	1850.7	1.59	25.00	26.59	33.00	316.2278	0.0907	1.0000	8.00	12.01	8.00	Pass
LTE B4	1710.7	2.00	25.00	27.00	30.00	316.2278	0.0997	1.0000	5.00	12.01	5.00	Pass
LTE B5	824.70	2.29	25.00	25.14	38.45	316.2278	0.1066	0.5498	15.60	9.41	9.41	Pass
LTE B7	2502.50	3.00	25.00	28.00	33.00	316.2278	0.1255	1.0000	8.00	12.01	8.00	Pass
LTE B12	699.70	3.26	25.00	26.11	34.77	316.2278	0.1333	0.4665	11.92	8.70	8.70	Pass
LTE B13	779.50	4.45	25.00	27.30	34.77	316.2278	0.1753	0.5197	11.92	9.16	9.16	Pass
LTE B25	1850.7	1.59	25.00	26.59	33.00	316.2278	0.0907	1.0000	8.00	12.01	8.00	Pass
LTE B26(814-824)	814.7	2.53	25.00	25.38	50.00	316.2278	0.1126	0.5431	27.15	9.36	9.36	Pass
LTE B26(824-849)	824.7	2.53	25.00	25.38	38.45	316.2278	0.1126	0.5498	15.60	9.41	9.41	Pass
LTE B38	2572.5	2.06	25.00	27.06	33.00	316.2278	0.1011	1.0000	8.00	12.01	8.00	Pass
LTE B41	2498.5	3.00	25.00	28.00	33.00	316.2278	0.1255	1.0000	8.00	12.01	8.00	Pass



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5.2 MPE Calculation

According to the formula $S=P/4\pi R^2$, we can calculate S which is MPE.

Note:

- 1) P (mW)
- 2) R = distance to the center of radiation of antenna (in meter) = 20cm
- 3) MPE limit = 1mW/cm²

For 5GHz WiFi:

The max. antenna gain is

dBi

Max. Conducted Power P(mW)	Gain in Linear Scale G	Operation Distance R(cm)	Power Density (mW/cm ²)	Limit (mW/cm²)	Result
33.11	2.512	20	0.01655	1	Pass

In MIMO mode:

The max. antenna gain is

7.01 dBi

Co ₁	Max. nducted Power P(mW)	Gain in Linear Scale G	Operation Distance R(cm)	Power Density (mW/cm²)	Limit (mW/cm²)	Result
(61.66	5.023	20	0.06162	1	Pass

For GSM/LTE:

Operating Band	Frequency (MHz)	Antenna Gain (dBi)	Max Conducted Average Output Power (dBm)	Output Power to Antenna (dBm)	EIRP(ERP) Limit (dBm)	Output Power to Antenna (mw)	Power Density at R = 20 cm (mW/cm2)	Limit (mW/cm2)	Gain according to EIRP (dBi)	Gain according to Pd (dBi)	Max Gain Allowed (dBi)	conclusion
GSM850	824.2	2.29	25.81	25.95	38.45	381.0658	0.1284	0.5495	14.79	8.60	8.60	Pass
GSM1900	1850.2	1.59	22.81	24.40	33.00	190.9853	0.0548	1.0000	10.19	14.20	10.19	Pass
WCDMAB2	1852.4	1.59	25.00	26.59	33.00	316.2278	0.0907	1.0000	8.00	12.01	8.00	Pass
WCDMAB4	1712.4	2.00	25.00	27.00	30.00	316.2278	0.0997	1.0000	5.00	12.01	5.00	Pass
WCDMAB5	826.4	2.29	25.00	25.14	38.45	316.2278	0.1066	0.5509	15.60	9.42	9.42	Pass
LTE B2	1850.7	1.59	25.00	26.59	33.00	316.2278	0.0907	1.0000	8.00	12.01	8.00	Pass
LTE B4	1710.7	2.00	25.00	27.00	30.00	316.2278	0.0997	1.0000	5.00	12.01	5.00	Pass
LTE B5	824.70	2.29	25.00	25.14	38.45	316.2278	0.1066	0.5498	15.60	9.41	9.41	Pass
LTE B7	2502.50	3.00	25.00	28.00	33.00	316.2278	0.1255	1.0000	8.00	12.01	8.00	Pass
LTE B12	699.70	3.26	25.00	26.11	34.77	316.2278	0.1333	0.4665	11.92	8.70	8.70	Pass
LTE B13	779.50	4.45	25.00	27.30	34.77	316.2278	0.1753	0.5197	11.92	9.16	9.16	Pass
LTE B25	1850.7	1.59	25.00	26.59	33.00	316.2278	0.0907	1.0000	8.00	12.01	8.00	Pass
LTE B26(814-824)	814.7	2.53	25.00	25.38	50.00	316.2278	0.1126	0.5431	27.15	9.36	9.36	Pass
LTE B26(824-849)	824.7	2.53	25.00	25.38	38.45	316.2278	0.1126	0.5498	15.60	9.41	9.41	Pass
LTE B38	2572.5	2.06	25.00	27.06	33.00	316.2278	0.1011	1.0000	8.00	12.01	8.00	Pass
LTE B41	2498.5	3.00	25.00	28.00	33.00	316.2278	0.1255	1.0000	8.00	12.01	8.00	Pass



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0.00000001

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For UWB:

The max. antenna gain is 0 dBi Gain in Linear Operation Power Density Limit Max. Conducted Power Scale Distance Result (mW/cm²) P(mW) (mW/cm²) G R(cm)

20

1.000

Consider the GSM/LTE Module, UWB and 5G WIFI module can simultaneous transmitting, so the maximum rate of MPE is 0.06162/1+0.1284/0.5495+0.000000001/1=0.295 mW/cm²<1 mW/cm². So according to the KDB447498 section 7.2 determine the device is exclusion from SAR test..

-- End of the Report--



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