



Human Exposure Report

Application No.: SZCR2105021107AT
Applicant: Shenzhen Topband Co., Ltd
Address of Applicant: Topband Industrial Park, LiYuan Industrial Zone ShiYan Town, Bao'An District, shenzhen, 518108 China
Manufacturer: Shenzhen Topband Battery Co., LTD
Address of Manufacturer: Topband Industrial Park, TangTou, Shiyan, Bao'An District, Shenzhen, China
Factory: Shenzhen Topband Battery Co., LTD
Address of Factory: Topband Industrial Park, TangTou, Shiyan, Bao'An District, Shenzhen, China
Equipment Under Test (EUT):
EUT Name: Wireless Car Charger
Model No.: WCC05
FCC ID: 2ADDW-WCC05
Standards: 47 CFR PART 1, Subpart I, Section 1.1310
47 CFR PART 2, Subpart J, Section 2.1093
Date of Receipt: 2021-05-20
Date of Test: 2021-05-22 to 2021-05-28
Date of Issue: 2021-06-03

Test Result :	Pass*
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* In the configuration tested, the EUT complied with the standards specified above

Keny Xu

Keny Xu
EMC Laboratory Manager



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Shenzhen Branch EMC Laboratory

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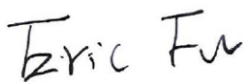
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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-06-03		Original

Authorized for issue by:				
				
		Charlie Dai/Project Engineer		
				
		Eric Fu/Reviewer		



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3 General Information

3.1 Details of E.U.T.

Power Supply:	Powered by car charging from USB port.
Cable(s):	USB Cable 97cm Shielded
Operation frequency:	125.60kHz to 128.40kHz
Modulation type:	Load modulation
Antenna type:	Loop Antenna
Remark:	This device has been tested the worst status of full load and the device has been tested with load at 5W, 7.5W and 10W, the worst case 10W is reported only.

3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
DC power supply	XANTREX	XFR 100-12	REF. No.SEA27A00
Car charger	Xiaomi	XM010A028	REF. No.:SEA0732
Load Resistor	SGS	N/A	REF. No.SEA06A00
iPhone 12	Apple	A1863	REF. No.SEA16J00



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3.3 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch E&E Lab,

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

3.4 Test Facility

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

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 3816.01.

- **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.



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4 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date
1	Electric and Magnetic Field Analyzer	Narda	EHP-50F	EMC092	2021-11-26



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5 Test Results

5.1 RF Exposure test

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310
47 CFR PART 2, Subpart J, Section 2.1093
Measurement Distance: 0/2/4/6/8/10/15cm
Limit:

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

F=frequency in MHz
*=Plane-wave equivalent power density
RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules.
The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

5.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humidity: 52.9 % RH Atmospheric Pressure: 1015 mbar

This device has been tested the worst status of full load and the device has been tested with mobile phone at zero charge, intermediate charge, and full charge.



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5.1.2 Measurement Data

1:Output Voltage=DC 9V; The max output power =10W;Calculation of resistor value=8.1Ω

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)	Verdict
127 kHz	0	Side 1	0.3925	0.815	Pass
		Side 2	0.3004	0.815	Pass
		Side 3	0.3799	0.815	Pass
		Side 4	0.3068	0.815	Pass
		Top	0.2735	0.815	Pass

Mobile phone has been charge at zero charge, intermediate charge, and full charge.

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			10% charge	50% charge	90% charge	
127 kHz	0	Side 1	0.4275	0.3621	0.3268	0.815
		Side 2	0.3384	0.3011	0.2528	0.815
		Side 3	0.4244	0.3588	0.3212	0.815
		Side 4	0.3337	0.2725	0.2282	0.815
		Top	0.2910	0.2583	0.2226	0.815



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Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)	Verdict
127 kHz	2	Side 1	0.3888	0.815	Pass
		Side 2	0.2958	0.815	Pass
		Side 3	0.3527	0.815	Pass
		Side 4	0.2873	0.815	Pass
		Top	0.2395	0.815	Pass

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			10% charge	50% charge	90% charge	
127 kHz	2	Side 1	0.3768	0.3508	0.3358	0.815
		Side 2	0.3148	0.2548	0.2788	0.815
		Side 3	0.3797	0.3407	0.3067	0.815
		Side 4	0.3053	0.2573	0.2523	0.815
		Top	0.2695	0.2255	0.2125	0.815



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Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)	Verdict
127 kHz	4	Side 1	0.3419	0.815	Pass
		Side 2	0.2559	0.815	Pass
		Side 3	0.3153	0.815	Pass
		Side 4	0.2393	0.815	Pass
		Top	0.2066	0.815	Pass

Mobile phone has been charge at zero charge, intermediate charge, and full charge.

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			10% charge	50% charge	90% charge	
127 kHz	4	Side 1	0.3439	0.3119	0.2979	0.815
		Side 2	0.2819	0.2529	0.2079	0.815
		Side 3	0.3153	0.2943	0.2843	0.815
		Side 4	0.2633	0.2253	0.2153	0.815
		Top	0.2316	0.2026	0.1746	0.815



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Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)	Verdict
127 kHz	6	Side 1	0.2648	0.815	Pass
		Side 2	0.1995	0.815	Pass
		Side 3	0.2356	0.815	Pass
		Side 4	0.1903	0.815	Pass
		Top	0.1891	0.815	Pass

Mobile phone has been charge at zero charge, intermediate charge, and full charge.

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			10% charge	50% charge	90% charge	
127 kHz	6	Side 1	0.2648	0.2378	0.2298	0.815
		Side 2	0.2125	0.1463	0.1865	0.815
		Side 3	0.2626	0.1846	0.2066	0.815
		Side 4	0.2063	0.1408	0.1623	0.815
		Top	0.1811	0.1172	0.1391	0.815



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Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)	Verdict
127 kHz	8	Side 1	0.2044	0.815	Pass
		Side 2	0.1601	0.815	Pass
		Side 3	0.2080	0.815	Pass
		Side 4	0.1730	0.815	Pass
		Top	0.1443	0.815	Pass

Mobile phone has been charge at zero charge, intermediate charge, and full charge.

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			10% charge	50% charge	90% charge	
127 kHz	8	Side 1	0.2194	0.1944	0.1674	0.815
		Side 2	0.1801	0.1631	0.1261	0.815
		Side 3	0.2020	0.1810	0.1620	0.815
		Side 4	0.1600	0.1560	0.1190	0.815
		Top	0.1543	0.1313	0.1093	0.815



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Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)	Verdict
127 kHz	10	Side 1	0.1595	0.815	Pass
		Side 2	0.1361	0.815	Pass
		Side 3	0.1562	0.815	Pass
		Side 4	0.1255	0.815	Pass
		Top	0.1172	0.815	Pass

Mobile phone has been charge at zero charge, intermediate charge, and full charge.

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			10% charge	50% charge	90% charge	
127 kHz	10	Side 1	0.1835	0.1365	0.1375	0.815
		Side 2	0.1381	0.1261	0.1061	0.815
		Side 3	0.1712	0.1572	0.1302	0.815
		Side 4	0.1375	0.1215	0.0995	0.815
		Top	0.1462	0.1022	0.0742	0.815



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Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)	Verdict
127 kHz	15	Side 1	0.1685	0.815	Pass
		Side 2	0.1281	0.815	Pass
		Side 3	0.1542	0.815	Pass
		Side 4	0.1195	0.815	Pass
		Top	0.1302	0.815	Pass

Mobile phone has been charge at zero charge, intermediate charge, and full charge.

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			10% charge	50% charge	90% charge	
127 kHz	15	Side 1	0.1805	0.1495	0.1415	0.815
		Side 2	0.1481	0.1101	0.1071	0.815
		Side 3	0.1712	0.1422	0.1312	0.815
		Side 4	0.1335	0.1095	0.0895	0.815
		Top	0.1442	0.1132	0.1002	0.815

- End of the Report -



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