



# Human Exposure Report

**Application No.:** SZEM2007006781CR  
**Applicant:** CUSTOM ACCESSORIES INC  
**Address of Applicant:** 5900 AMI DRIVE, RICHMOND, Illinois, 60071, United States  
**Manufacturer:** SHENZHEN XIAOJIU TECHNOLOGY CO., LIMITED  
**Address of Manufacturer:** 4F, A8 Building, Fuwei Second Industry Park, Fuyong Town, Baoan District, Shenzhen, China  
**Factory:** SHENZHEN XIAOJIU TECHNOLOGY CO., LIMITED  
**Address of Factory:** 4F, A8 Building, Fuwei Second Industry Park, Fuyong Town, Baoan District, Shenzhen, China

**Equipment Under Test (EUT):**  
**EUT Name:** CARBON XT 10W Qi Wireless Charging Phone Holder  
**Model No.:** 24510  
**Trade mark:** CARBON XT  
**FCC ID:** 2ADMQ-24510  
**Standards:** 47 CFR PART 1, Subpart I, Section 1.1310  
 47 CFR PART 2, Subpart J, Section 2.1093

**Date of Receipt:** 2020-07-22  
**Date of Test:** 2020-07-23 to 2020-07-24  
**Date of Issue:** 2020-07-31

<b>Test Result :</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above

*Keny Xu*

Keny Xu  
 EMC Laboratory Manager



<i>Revision Record</i>				
<b>Version</b>	<b>Chapter</b>	<b>Date</b>	<b>Modifier</b>	<b>Remark</b>
01		2020-07-31		Original

<b>Authorized for issue by:</b>			
			
		<hr/> <b>Leo Li /Project Engineer</b>	
			
		<hr/> <b>Eric Fu /Reviewer</b>	



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## 2 General Information

### 2.1 Details of E.U.T.

<b>Power Supply:</b>	Car Charger Input: DC 12V-24V/2A Car Charger Output: DC 5V/3A, DC 9V/2A, DC 12V/1.5A WPC Input: DC 9V/1.67A WPC Output: 5W/7.5W/10W Max USB-A Charge Port Output: DC 5V/1A
<b>Cable:</b>	Type-C cable: 76.2cm unshielded
<b>Antenna Type:</b>	Loop Antenna
<b>Modulation Type:</b>	Load Modulation
<b>Operation Frequency:</b>	110.256kHz to 152.404kHz
<b>Remark:</b>	Tests were conducted in all load modes and the worst case 10W (DC 9V/1.12A) is reported only.

### 2.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
iPhone 8	Apple	A1863	F4GVQ656JC6D
SAMSUNG Galaxy S8	SAMSUNG	SM-G9500	R28J9140LPB



## 2.3 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.

## 2.4 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.

## 2.5 Deviation from Standards

None.

## 2.6 Abnormalities from Standard Conditions

None.



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### 3 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	2020-11-27



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## 4 Test Results

### 4.1 RF Exposure test

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310  
 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 <sup>2</sup> )	Averaging time (minutes)
<b>(A) Limits for Occupational/Controlled Exposures</b>				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
<b>(B) Limits for General Population/Uncontrolled Exposure</b>				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	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).

#### 4.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25.0 °C      Humidity: 52 % RH      Atmospheric Pressure: 1015 mbar

EUT Operation:

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



**4.1.2 Measurement Data for Air Vent Mount**

**Output Voltage=DC 9V; The max output power =10W;Calculation of resistor value=8Ω**

**Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
112.31 kHz	0	Side 1	0.2861	0.815
		Side 2	0.2046	0.815
		Side 3	0.2934	0.815
		Side 4	0.2118	0.815
		Top	0.1552	0.815
		Bottom	0.1964	0.815

**Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
112.31 kHz	2	Side 1	0.2432	0.815
		Side 2	0.1698	0.815
		Side 3	0.2523	0.815
		Side 4	0.1673	0.815
		Top	0.1273	0.815
		Bottom	0.1745	0.815

**Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
112.31 kHz	4	Side 1	0.2018	0.815
		Side 2	0.1359	0.815
		Side 3	0.2170	0.815
		Side 4	0.1406	0.815
		Top	0.1082	0.815
		Bottom	0.1533	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)
112.31 kHz	6	Side 1	0.1675	0.815
		Side 2	0.1155	0.815
		Side 3	0.1758	0.815
		Side 4	0.1153	0.815
		Top	0.0919	0.815
		Bottom	0.1207	0.815

**Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
112.31 kHz	8	Side 1	0.1323	0.815
		Side 2	0.0958	0.815
		Side 3	0.1371	0.815
		Side 4	0.0934	0.815
		Top	0.0708	0.815
		Bottom	0.1083	0.815

**Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
112.31 kHz	10	Side 1	0.1006	0.815
		Side 2	0.0757	0.815
		Side 3	0.1042	0.815
		Side 4	0.0719	0.815
		Top	0.0559	0.815
		Bottom	0.0843	0.815



**Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
112.31 kHz	15	Side 1	0.0492	0.815
		Side 2	0.0380	0.815
		Side 3	0.0516	0.815
		Side 4	0.0367	0.815
		Top	0.0276	0.815
		Bottom	0.0397	0.815

**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	
112.31 kHz	0	Side 1	0.2970	0.2856	0.2818	0.815
		Side 2	0.2168	0.2020	0.1971	0.815
		Side 3	0.3042	0.2938	0.2892	0.815
		Side 4	0.2248	0.2111	0.2061	0.815
		Top	0.1650	0.1532	0.1489	0.815
		Bottom	0.2078	0.1839	0.1667	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)
			10% charge	50% charge	90% charge	
112.31 kHz	2	Side 1	0.2523	0.2388	0.2351	0.815
		Side 2	0.1790	0.1654	0.1614	0.815
		Side 3	0.2614	0.2454	0.2420	0.815
		Side 4	0.1782	0.1669	0.1632	0.815
		Top	0.1368	0.1220	0.1174	0.815
		Bottom	0.1743	0.1522	0.1337	0.815

**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	
112.31 kHz	4	Side 1	0.2135	0.1993	0.1946	0.815
		Side 2	0.1489	0.1354	0.1316	0.815
		Side 3	0.2276	0.2166	0.2116	0.815
		Side 4	0.1530	0.1414	0.1380	0.815
		Top	0.1200	0.1062	0.1023	0.815
		Bottom	0.1519	0.1321	0.1102	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)
			10% charge	50% charge	90% charge	
112.31 kHz	6	Side 1	0.1781	0.1631	0.1594	0.815
		Side 2	0.1271	0.1152	0.1100	0.815
		Side 3	0.1872	0.1711	0.1674	0.815
		Side 4	0.1275	0.1144	0.1094	0.815
		Top	0.1050	0.0914	0.0866	0.815
		Bottom	0.1337	0.1112	0.0938	0.815

**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	
112.31 kHz	8	Side 1	0.1421	0.1275	0.1231	0.815
		Side 2	0.1047	0.0945	0.0908	0.815
		Side 3	0.1459	0.1300	0.1253	0.815
		Side 4	0.1044	0.0895	0.0849	0.815
		Top	0.0818	0.0669	0.0624	0.815
		Bottom	0.1142	0.0924	0.0757	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)
			10% charge	50% charge	90% charge	
112.31 kHz	10	Side 1	0.1101	0.0966	0.0914	0.815
		Side 2	0.0863	0.0717	0.0665	0.815
		Side 3	0.1143	0.1026	0.0978	0.815
		Side 4	0.0851	0.0744	0.0706	0.815
		Top	0.0655	0.0533	0.0497	0.815
		Bottom	0.0922	0.0791	0.0538	0.815

**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	
112.31 kHz	15	Side 1	0.0599	0.0444	0.0398	0.815
		Side 2	0.0486	0.0362	0.0318	0.815
		Side 3	0.0621	0.0465	0.0423	0.815
		Side 4	0.0484	0.0362	0.0314	0.815
		Top	0.0374	0.0242	0.0209	0.815
		Bottom	0.0443	0.0376	0.0228	0.815



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**Measurement Data for Suction Cup Mount**

**Output Voltage=DC 5V; The max output power =5W;Calculation of resistor value=5Ω**

**Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
112.31 kHz	0	Side 1	0.2783	0.815
		Side 2	0.2118	0.815
		Side 3	0.2845	0.815
		Side 4	0.2205	0.815
		Top	0.1672	0.815
		Bottom	0.2237	0.815

**Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
112.31 kHz	2	Side 1	0.2366	0.815
		Side 2	0.1758	0.815
		Side 3	0.2447	0.815
		Side 4	0.1742	0.815
		Top	0.1371	0.815
		Bottom	0.2012	0.815

**Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
112.31 kHz	4	Side 1	0.1963	0.815
		Side 2	0.1406	0.815
		Side 3	0.2104	0.815
		Side 4	0.1463	0.815
		Top	0.1165	0.815
		Bottom	0.1833	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)
112.31 kHz	6	Side 1	0.1630	0.815
		Side 2	0.1195	0.815
		Side 3	0.1704	0.815
		Side 4	0.1200	0.815
		Top	0.0991	0.815
		Bottom	0.1502	0.815

**Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
112.31 kHz	8	Side 1	0.1287	0.815
		Side 2	0.0992	0.815
		Side 3	0.1329	0.815
		Side 4	0.0972	0.815
		Top	0.0763	0.815
		Bottom	0.1234	0.815

**Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
112.31 kHz	10	Side 1	0.0978	0.815
		Side 2	0.0784	0.815
		Side 3	0.1010	0.815
		Side 4	0.0748	0.815
		Top	0.0603	0.815
		Bottom	0.0911	0.815



**Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
112.31 kHz	15	Side 1	0.0478	0.815
		Side 2	0.0393	0.815
		Side 3	0.0500	0.815
		Side 4	0.0382	0.815
		Top	0.0297	0.815
		Bottom	0.0399	0.815

**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	
112.31 kHz	0	Side 1	0.2888	0.2735	0.2688	0.815
		Side 2	0.2239	0.2109	0.2065	0.815
		Side 3	0.2953	0.2794	0.2750	0.815
		Side 4	0.2295	0.2157	0.2109	0.815
		Top	0.1790	0.1650	0.1605	0.815
		Bottom	0.2322	0.2189	0.2018	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)
			10% charge	50% charge	90% charge	
112.31 kHz	2	Side 1	0.2463	0.2320	0.2271	0.815
		Side 2	0.1875	0.1769	0.1732	0.815
		Side 3	0.2542	0.2436	0.2391	0.815
		Side 4	0.1872	0.1737	0.1701	0.815
		Top	0.1488	0.1347	0.1295	0.815
		Bottom	0.2112	0.2002	0.1933	0.815

**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	
112.31 kHz	4	Side 1	0.2064	0.1942	0.1895	0.815
		Side 2	0.1501	0.1376	0.1338	0.815
		Side 3	0.2230	0.2126	0.2091	0.815
		Side 4	0.1587	0.1480	0.1437	0.815
		Top	0.1262	0.1111	0.1063	0.815
		Bottom	0.1943	0.1801	0.1679	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)
			10% charge	50% charge	90% charge	
112.31 kHz	6	Side 1	0.1750	0.1633	0.1582	0.815
		Side 2	0.1306	0.1158	0.1117	0.815
		Side 3	0.1807	0.1680	0.1645	0.815
		Side 4	0.1329	0.1226	0.1187	0.815
		Top	0.1085	0.0965	0.0924	0.815
		Bottom	0.1644	0.1512	0.1398	0.815

**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	
112.31 kHz	8	Side 1	0.1386	0.1231	0.1183	0.815
		Side 2	0.1090	0.0985	0.0940	0.815
		Side 3	0.1459	0.1312	0.1270	0.815
		Side 4	0.1083	0.0924	0.0874	0.815
		Top	0.0877	0.0728	0.0694	0.815
		Bottom	0.1207	0.1142	0.1033	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)
			10% charge	50% charge	90% charge	
112.31 kHz	10	Side 1	0.1105	0.0971	0.0937	0.815
		Side 2	0.0882	0.0732	0.0695	0.815
		Side 3	0.1104	0.0987	0.0946	0.815
		Side 4	0.0857	0.0725	0.0683	0.815
		Top	0.0712	0.0602	0.0566	0.815
		Bottom	0.1003	0.0874	0.0659	0.815

**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	
112.31 kHz	15	Side 1	0.0573	0.0437	0.0399	0.815
		Side 2	0.0483	0.0339	0.0297	0.815
		Side 3	0.0602	0.0474	0.0439	0.815
		Side 4	0.0476	0.0334	0.0298	0.815
		Top	0.0393	0.0286	0.0240	0.815
		Bottom	0.449	0.0387	0.0265	0.815



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## 5 Photographs- RF exposure Setup photos

Refer to RF Exposure Setup Photos.

- End of the Report -

