

# **RF EXPOSURE EVALUATION REPORT**

**Application No.:** GZCR2110021248AT  
**Applicant:** ASAP Technology(Jiangxi) Co., Ltd.  
**Address of Applicant:** Ji'an Industrial Park, Ji'an, Jiangxi, 343100 China  
**Manufacturer:** ASAP Technology(Jiangxi) Co., Ltd.  
**Address of Manufacturer:** Ji'an Industrial Park, Ji'an, Jiangxi, 343100 China  
**Equipment Under Test (EUT):**  
**EUT Name:** Wireless Charger  
**Model No.:** WIABLK100008882  
**Trade Mark:** Onn.  
**Standard(s) :** 47 CFR PART 1, Subpart I, Section 1.1310  
47 CFR PART 2, Subpart J, Section 2.1093  
**Date of Receipt:** 2021-10-09  
**Date of Evaluation:** 2022-08-11 to 2022-08-19  
**Date of Issue:** 2022-08-20

<b>Evaluation Result:</b>	<b>Pass*</b>
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\* In the configuration evaluated, the EUT complied with the standards specified above.

Kobe Jian  
EMC Laboratory Manager



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<i>Revision Record</i>				
<i>Version</i>	<i>Chapter</i>	<i>Date</i>	<i>Modifier</i>	<i>Remark</i>
01		2021-10-25		Original
02		2022-07-20		Updated
03		2022-08-20		Updated

<b>Authorized for issue by</b>			
<b>Tested By</b>			
	<hr/>		
	<b>Curry Wu/Project Engineer</b>		
<b>Reviewed By</b>			
	<hr/>		
	<b>Ricky Liu/Reviewer</b>		



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## 2 Evaluation Summary

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
RF Exposure	47 CFR PART 1, Subpart I, Section 1.1310; 47 CFR PART 2, Subpart J, Section 2.1093	KDB 680106 D01	47 CFR PART 1, Subpart I, Section 1.1310; 47 CFR PART 2, Subpart J, Section 2.1093	Pass

**Note:**

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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## 4 General Information

### 4.1 Details of E.U.T.

Power supply: Input 5Vdc, 2Amax; Output 5W max  
 Operation Frequency: 111.2kHz to 162.4kHz  
 Modulation Type: Load modulation  
 Antenna Type: Loop antenna

### 4.2 Test modes description:

Pre-scan / Mode	Description
Final test Code	
Final test 00	Charging mode_Keep the EUT charging (5W)

### 4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Mobile Phone	Nexus	MRA58K	REF. No.SEA16P00
Car charger	N/A	WIABLK100008847	N/A
E-loading	SGS	N/A	REF. No.SEA42A00

### 4.4 Measurement Uncertainty

Test Item	Measurement Uncertainty
RF Exposure Evaluation	MF: 0.13dB, EF: 0.4dB



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## 5 Equipments Used during Test

RF Exposure					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
743 Compact 3m Semi-Anechoic Chamber	ChangZhou ZhongYu	N/A	EMC0525	2019-10-20	2022-10-19
Electric and Magnetic Field Probe - Analyzer(9kHz-30MHz)	Narda	EHP-200A	SEM022-18	2022-05-25	2023-05-24
Electric and Magnetic Field Probe-Analyzer(1Hz-400kHz)	Narda	EHP-50F	EMC2143	2021-12-29	2022-12-28

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2022-06-24	2023-06-23
DMM	Fluke	73	EMC0007	2022-06-24	2023-06-23



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## 5.1 Evaluating Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,  
 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District,  
 Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.

## 5.2 Facility

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

- **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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### 5.3 Deviation from Standards

None

### 5.4 Abnormalities from Standard Conditions

None



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## 6 Test Results

### 6.1 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: 4/6/8/10/12/14/16/18/20cm

Remark: According to KDB publication 680106 section 3.c, the separation distance shall be measured from the geometric center of the probe head to the edge of the device, so test distance as above.

4cm is the least distance between the center of the probe and the edge of EUT

Limit:

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in Part1.1307(b)

**TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)**

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).



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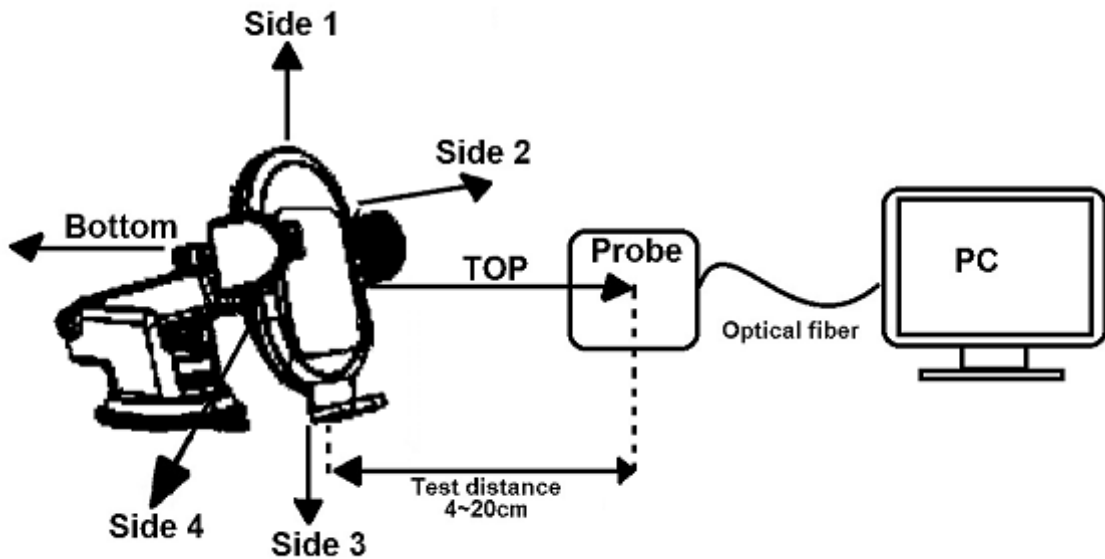
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According to IEEE C95.3:2002 section 5.5.1.1, The power density  $S$  at a point on the axis at a distance  $d$  from a transmitting antenna is given by the Friis free-space transmission formula

$$S = \frac{PG}{4\pi d^2}$$

$S$  = power density ( $mW/cm^2$ )  
 $P$  = the net power delivered to the antenna ( $mW$ )  
 $G$  = gain of the antenna in linear scale  
 $d$  = distance between observation point and center of the radiator ( $cm$ )

### 6.1.1 Test Block Diagram



Note: The measuring reference point of the probe is at the physical center of the probe and is 4cm away from the edge of the probe.

### 6.1.2 E.U.T. Operation

Operating Environment:

Temperature: 23.8 °C      Humidity: 54.5% RH      Atmospheric Pressure: 1010 mbar

EUT Operation:

This device has been tested with unload, half-load and full load, and the device has been tested with Mobile phone at zero charge, intermediate charge, and full charge.



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**6.1.3 Measurement Data**

The max output power =5W

**Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			unload	Half load	full load		
116.1 kHz which is the worst case within the operation frequency range	4	Top	0.175	0.204	0.237	0.815	0.163
		Side 1	0.244	0.257	0.323		
		Side 2	0.257	0.278	0.345		
		Side 3	0.264	0.279	0.355		
		Side 4	0.235	0.246	0.279		

**Magnetic Field Emissions**

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

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			zero charge	intermediate charge	full charge		
122.8 kHz which is the worst case within the operation frequency range	4	Top	0.243	0.211	0.173	0.815	0.163
		Side 1	0.317	0.266	0.235		
		Side 2	0.343	0.313	0.242		
		Side 3	0.348	0.317	0.248		
		Side 4	0.299	0.254	0.237		



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The max output power =5W

**Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			unload	Half load	full load		
116.1 kHz which is the worst case within the operation frequency range	6	Top	0.144	0.162	0.200	0.815	0.163
		Side 1	0.186	0.225	0.234		
		Side 2	0.213	0.231	0.273		
		Side 3	0.215	0.253	0.279		
		Side 4	0.197	0.199	0.246		

**Magnetic Field Emissions**

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

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			zero charge	intermediate charge	full charge		
122.8 kHz which is the worst case within the operation frequency range	6	Top	0.201	0.172	0.148	0.815	0.163
		Side 1	0.255	0.211	0.195		
		Side 2	0.304	0.227	0.211		
		Side 3	0.306	0.243	0.216		
		Side 4	0.288	0.226	0.184		



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**The max output power =5W**

**Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			unload	Half load	full load		
116.1 kHz which is the worst case within the operation frequency range	8	Top	0.116	0.122	0.133	0.815	0.163
		Side 1	0.147	0.161	0.203		
		Side 2	0.168	0.175	0.211		
		Side 3	0.169	0.179	0.215		
		Side 4	0.154	0.168	0.166		

**Magnetic Field Emissions**

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

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			zero charge	intermediate charge	full charge		
122.8 kHz which is the worst case within the operation frequency range	8	Top	0.155	0.138	0.107	0.815	0.163
		Side 1	0.203	0.157	0.133		
		Side 2	0.214	0.204	0.145		
		Side 3	0.232	0.206	0.152		
		Side 4	0.187	0.168	0.155		



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**The max output power =5W**

**Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			unload	Half load	full load		
116.1 kHz which is the worst case within the operation frequency range	10	Top	0.114	0.106	0.113	0.815	0.163
		Side 1	0.124	0.113	0.188		
		Side 2	0.147	0.116	0.174		
		Side 3	0.155	0.159	0.201		
		Side 4	0.146	0.157	0.199		

**Magnetic Field Emissions**

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

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			zero charge	intermediate charge	full charge		
122.8 kHz which is the worst case within the operation frequency range	10	Top	0.121	0.120	0.122	0.815	0.163
		Side 1	0.174	0.157	0.147		
		Side 2	0.200	0.162	0.175		
		Side 3	0.200	0.175	0.186		
		Side 4	0.189	0.168	0.177		



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**The max output power =5W**

**Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			unload	Half load	full load		
116.1 kHz which is the worst case within the operation frequency range	12	Top	0.106	0.102	0.108	0.815	0.163
		Side 1	0.111	0.114	0.122		
		Side 2	0.127	0.138	0.147		
		Side 3	0.128	0.135	0.135		
		Side 4	0.135	0.134	0.145		

**Magnetic Field Emissions**

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

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			zero charge	intermediate charge	full charge		
122.8 kHz which is the worst case within the operation frequency range	12	Top	0.113	0.121	0.090	0.815	0.163
		Side 1	0.155	0.133	0.111		
		Side 2	0.167	0.158	0.134		
		Side 3	0.166	0.155	0.162		
		Side 4	0.172	0.167	0.168		



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**The max output power =5W**  
**Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			unload	Half load	full load		
116.1 kHz which is the worst case within the operation frequency range	14	Top	0.084	0.094	0.101	0.815	0.163
		Side 1	0.089	0.099	0.104		
		Side 2	0.123	0.121	0.133		
		Side 3	0.124	0.114	0.125		
		Side 4	0.115	0.123	0.137		

**Magnetic Field Emissions**

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

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			zero charge	intermediate charge	full charge		
122.8 kHz which is the worst case within the operation frequency range	14	Top	0.102	0.094	0.088	0.815	0.163
		Side 1	0.124	0.109	0.102		
		Side 2	0.136	0.115	0.102		
		Side 3	0.138	0.119	0.107		
		Side 4	0.135	0.127	0.112		



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**The max output power =5W**

**Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result			50 % Limit (A/m)	10 % Limit (A/m)
			(A/m)				
			unload	Half load	full load		
116.1 kHz which is the worst case within the operation frequency range	16	Top	0.094	0.089	0.104	0.815	0.163
		Side 1	0.098	0.117	0.114		
		Side 2	0.099	0.124	0.124		
		Side 3	0.116	0.131	0.125		
		Side 4	0.124	0.133	0.131		

**Magnetic Field Emissions**

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

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			(A/m)				
			zero charge	intermediate charge	full charge		
122.8 kHz which is the worst case within the operation frequency range	16	Top	0.089	0.088	0.068	0.815	0.163
		Side 1	0.104	0.087	0.089		
		Side 2	0.122	0.124	0.097		
		Side 3	0.111	0.126	0.101		
		Side 4	0.116	0.122	0.106		



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**The max output power =5W**

**Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			unload	Half load	full load		
			116.1 kHz which is the worst case within the operation frequency range	18	Top		
Side 1	0.084	0.088	0.081				
Side 2	0.088	0.101	0.092				
Side 3	0.105	0.102	0.097				
Side 4	0.112	0.106	0.104				

**Magnetic Field Emissions**

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

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			zero charge	intermediate charge	full charge		
122.8 kHz which is the worst case within the operation frequency range	18	Top	0.085	0.092	0.083	0.815	0.163
		Side 1	0.089	0.100	0.087		
		Side 2	0.099	0.105	0.097		
		Side 3	0.094	0.102	0.092		
		Side 4	0.114	0.109	0.090		



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The max output power =5W

**Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			unload	Half load	full load		
			116.1 kHz which is the worst case within the operation frequency range	20	Top		
Side 1	0.037	0.036	0.053				
Side 2	0.057	0.048	0.059				
Side 3	0.059	0.055	0.071				
Side 4	0.064	0.076	0.089				

**Magnetic Field Emissions**

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

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			zero charge	intermediate charge	full charge		
122.8 kHz which is the worst case within the operation frequency range	20	Top	0.040	0.041	0.045	0.815	0.163
		Side 1	0.046	0.047	0.057		
		Side 2	0.057	0.064	0.061		
		Side 3	0.058	0.065	0.085		
		Side 4	0.066	0.086	0.089		

## 7 Photographs- RF exposure Setup photos

Refer to Appendix - RF Exposure Setup Photos for GZCR2110021248AT.

- End of the Report -



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