

First Floor West Side, Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu Village, Shatou Community, Shajing Street, Bao'an District, Shenzhen City, Guangdong Province, P. R. China
Tel.: +(86) 755-2985 2678 Fax: +(86) 755-2985 2397 E-mail: info@gdksign.cn Website: www.gdksign.com

RF Exposure Evaluation

FCC ID: 2AYBN-C1001

Measuring Standard

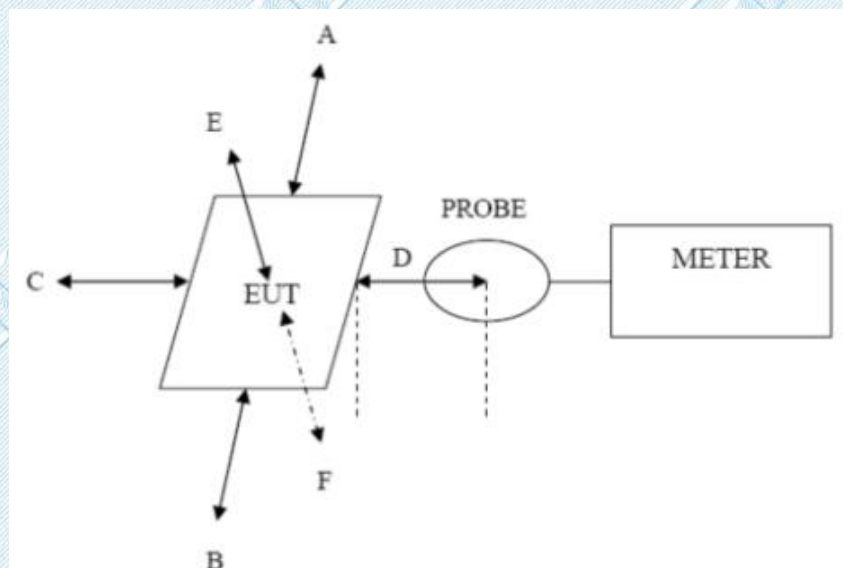
FCC Part 1(1.1310) and 1.307(b),Part 2(2.1091)

KDB 680106 D01 RF Exposure Wireless Charging Base App v03

Test Configuration

- 1.The field strength of both E-field and H-field was measured at 15cm using the equipment list above for determining compliance with the MPE requirements of FCC Part 1.1310.
- 2.The RF power density was measured at Under maximum load test.
- 3.Maximum E-field and H-field measurements were made 15cm from each side of the EUT. Along the side of the EUT and still 15cm away from the edge of the EUT, the field probes were positioned at the location where there is maximum field strength. The maximum E-field and H-field is reported below.
- 4.Additionally, RF Exp for on-board wireless charging is evaluated.,Perform H-field measurements for each edge/top surface of the host/client pair at every 2 cm,starting from as close as possible out to 10 cm.(see TCB Workshop November 2019).
- 5.This device uses a wireless charging circuit for power transfer operating at the frequency of 110.1KHz -205kHz. Thus, the 300kHz limits were used: E-field Limit = 614 (V/m); H-field limit = 1.63 (A/m).

TEST Setup



Note: Perform H-field measurements for each edge/top surface of the host/client pair at every 2 cm, starting from as close as possible out to 10 cm.(see TCB Workshop November 2019)

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TEST Limits

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 Exposure				
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
300-1,500			f/300	6
1,500-100,000			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
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz * = Plane-wave equivalent power density

Measuring Device and Test Equipment

Description	Manufacturer	Model	S/N	Cal. Until
E-Field Probe(100kHz-3GHz)	Narda	EF0391	Q15221	Sep 11, 2021
Probe FHP(100kHz-3GHz)	Narda Safety Test Solutions GmbH	EHP-50F	J-0015	June 11, 2021
Broadband Field Meter	Narda	NBM-550	Q201455	Sep 11, 2021
Adapter	N/A	SAW30-12 0-2500U	N/A	N/A
Load	N/A	N/A	N/A	N/A

Measurement Uncertainty

Test Items	Measurement Uncertainty
Conduction Uncertainty :	1.60 dB
Radiated Uncertainty :	2.20 dB

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TEST RESULT

☒ **Passed**
☐ **Not Applicable**

EUT	Wireless Charger			Model Name. :	C1001		
Pressure:	1010hPa			Test Date:	2020-11-15		
Test Voltage:	Input: Adapter AC 120V/60Hz ; Output: 9V 1.67A （worst case）						
E-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT							
EUT Side	Frequency Range (KHz)	Probe B (V/m)	Probe A (V/m)	Probe C (V/m)	Probe D (V/m)	Probe E (V/m)	Limits (V/m)
Full load	110.1~205	0.73	0.77	0.77	0.76	2.26	614
Half load	110.1~205	0.59	0.59	0.58	0.50	1.73	
Null load	110.1~205	0.56	0.55	0.55	0.55	1.61	
H-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT							
EUT Side	Frequency Range (KHz)	Probe B (A/m)	Probe A (A/m)	Probe C (A/m)	Probe D (A/m)	Probe E (A/m)	Limits (A/m)
Full load	110.1~205	0.19	0.18	0.18	0.18	0.52	1.63
Half load	110.1~205	0.17	0.17	0.18	0.16	0.35	
Null load	110.1~205	0.15	0.15	0.15	0.15	0.29	

EUT	Wireless Charger			Model Name. :	C1001		
Pressure:	1010hPa			Test Date:	2020-11-15		
Test Voltage:	Input: By Battery DC 9V 1.67A; Output:15W （worst case）						
H-Field Strength at 0 cm surrounding the EUT							
EUT Side	Frequency Range (KHz)	Probe B (A/m)	Probe A (A/m)	Probe C (A/m)	Probe D (A/m)	Probe E (A/m)	Limits (A/m)
Full load	110.1~205	0.28	0.28	0.37	0.34	0.60	1.63
Half load	110.1~205	0.27	0.27	0.29	0.27	0.60	

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Null load	110.1~205	0.27	0.29	0.27	0.30	0.66	
H-Field Strength at 2 cm surrounding the EUT							
EUT Side	Frequency Range (KHz)	Probe B (A/m)	Probe A (A/m)	Probe C (A/m)	Probe D (A/m)	Probe E (A/m)	Limits (A/m)
Full load	110.1~205	0.25	0.26	0.26	0.26	0.59	1.63
Half load	110.1~205	0.25	0.26	0.25	0.26	0.53	
Null load	110.1~205	0.24	0.23	0.23	0.24	0.58	
H-Field Strength at 4 cm surrounding the EUT							
EUT Side	Frequency Range (KHz)	Probe B (A/m)	Probe A (A/m)	Probe C (A/m)	Probe D (A/m)	Probe E (A/m)	Limits (A/m)
Full load	110.1~205	0.26	0.25	0.25	0.26	0.52	1.63
Half load	110.1~205	0.25	0.24	0.25	0.25	0.53	
Null load	110.1~205	0.25	0.22	0.22	0.25	0.50	
H-Field Strength at 6 cm surrounding the EUT							
EUT Side	Frequency Range (KHz)	Probe B (A/m)	Probe A (A/m)	Probe C (A/m)	Probe D (A/m)	Probe E (A/m)	Limits (A/m)
Full load	110.1~205	0.26	0.26	0.26	0.26	0.56	1.63
Half load	110.1~205	0.25	0.26	0.24	0.25	0.54	
Null load	110.1~205	0.25	0.25	0.25	0.26	0.53	
H-Field Strength at 8 cm surrounding the EUT							
EUT Side	Frequency Range (KHz)	Probe B (A/m)	Probe A (A/m)	Probe C (A/m)	Probe D (A/m)	Probe E (A/m)	Limits (A/m)
Full load	110.1~205	0.23	0.24	0.22	0.23	0.52	1.63
Half load	110.1~205	0.23	0.23	0.23	0.23	0.52	
Null load	110.1~205	0.22	0.23	0.24	0.22	0.53	

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H-Field Strength at 10 cm surrounding the EUT							
EUT Side	Frequency Range (KHz)	Probe B (A/m)	Probe A (A/m)	Probe C (A/m)	Probe D (A/m)	Probe E (A/m)	Limits (A/m)
Full load	110.1~205	0.20	0.18	0.19	0.20	0.52	1.63
Half load	110.1~205	0.21	0.22	0.22	0.20	0.50	
Null load	110.1~205	0.22	0.20	0.22	0.21	0.51	

Remark: The device meets the mobile RF exposure limit at a 15cm separation distance as specified in §2.1091 of the FCC Rules.

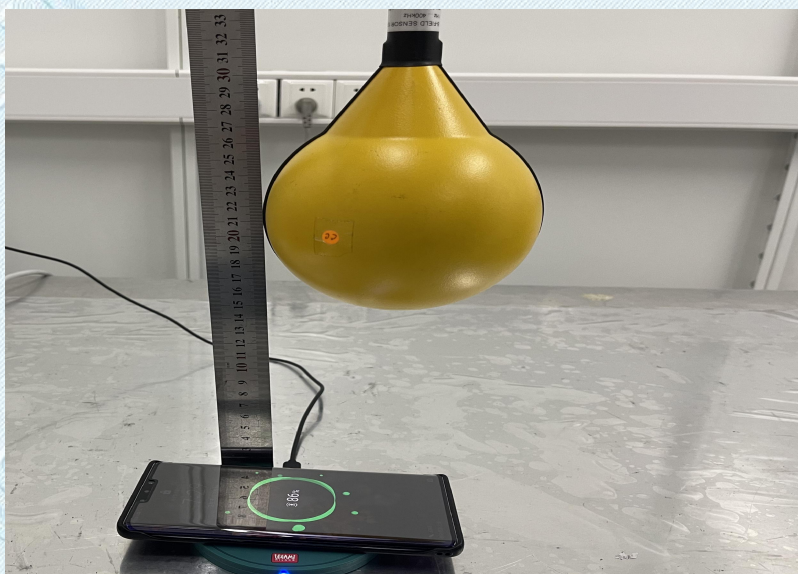
Note: Only the worst case modes is recorded in the report.

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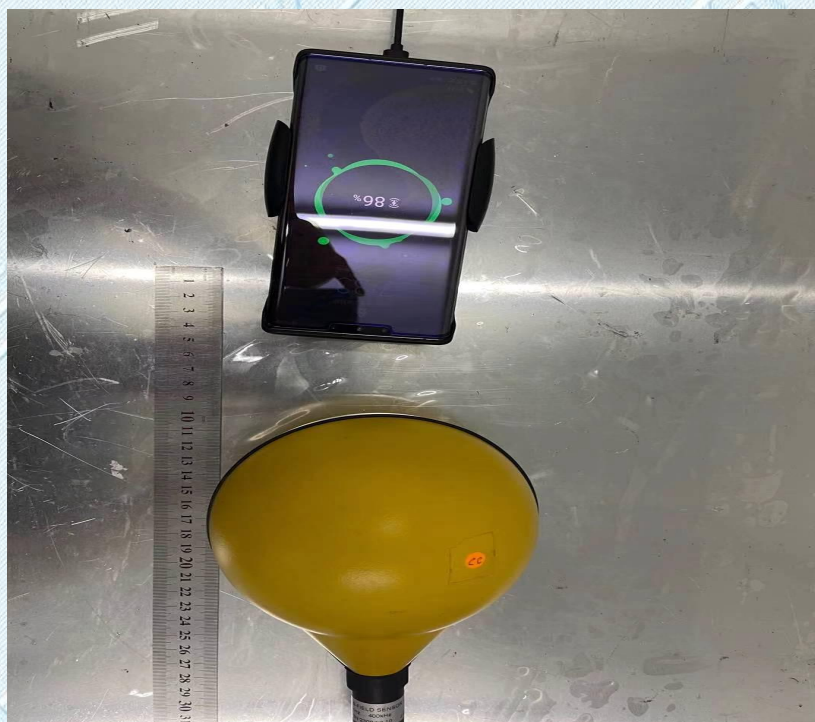
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PHOTOGRAPHS OF TEST SETUP

Position E



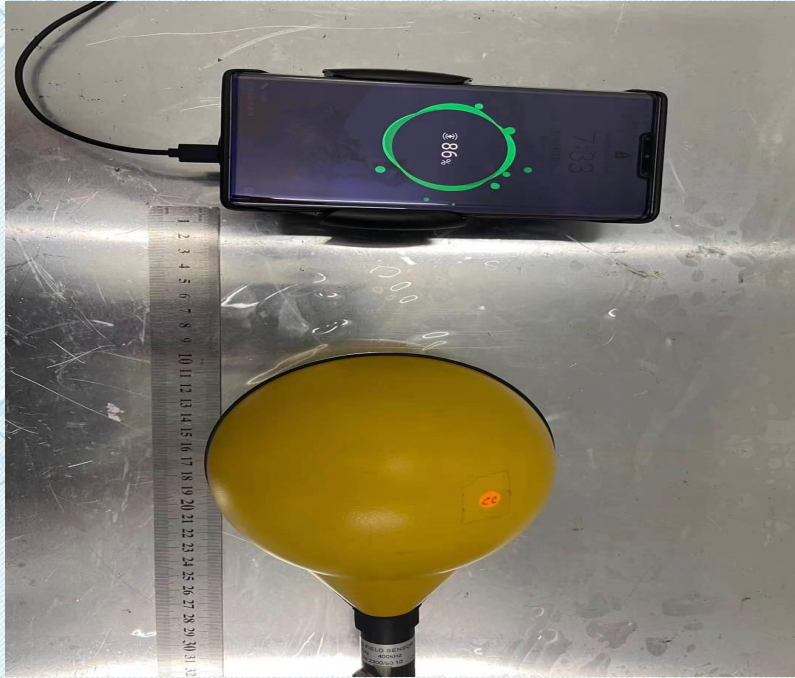
Position A



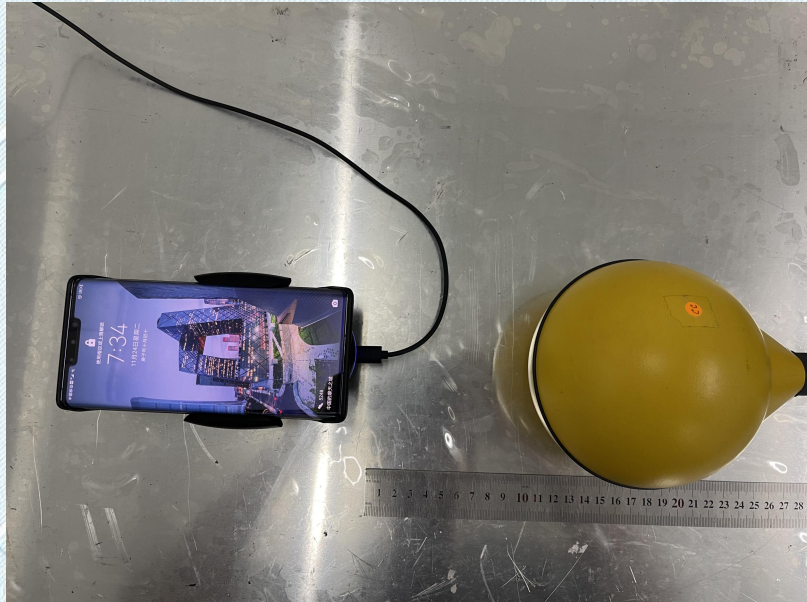
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Position B



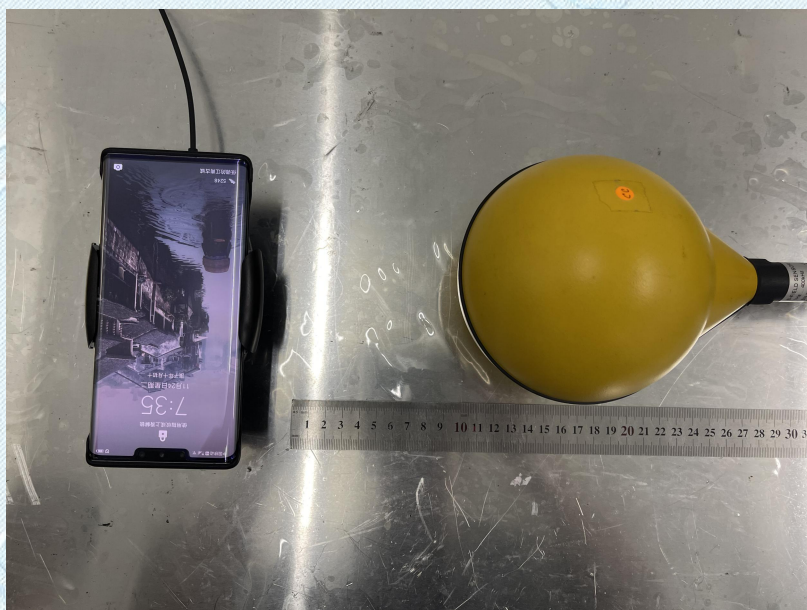
Position C



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Position D



*****THE END*****