

## RF Exposure Report

**Report No.:** SABEKS-WTW-P20100558

**FCC ID:** GV3M01513

**Test Model:** M01513

**Series Model:** M01509, M01550, M01551 (refer to item 2.1 for more details)

**Received Date:** Oct. 23, 2020

**Test Date:** Nov. 04 ~ Nov. 06, 2020

**Issued Date:** Nov. 12, 2020

**Applicant:** ACCO Brands, Inc.

**Address:** 1500 Fashion Island Blvd., 3rd Floor, San Mateo, CA 94404, USA

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
Lin Kou Laboratories

**Lab Address:** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

**Test Location:** No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City  
33383, TAIWAN

**FCC Registration /  
Designation Number:** 788550 / TW0003



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### Release Control Record

Issue No.	Description	Date Issued
SABEKS-WTW-P20100558	Original release	Nov. 12, 2020

## 1 Certificate of Conformity

**Product:** StudioDock

**Brand:** Kensington

**Test Model:** M01513

**Series Model:** M01509, M01550, M01551 (refer to item 2.1 for more details)

**Sample Status:** Identical Prototype

**Applicant:** ACCO Brands, Inc.

**Test Date:** Nov. 04 ~ Nov. 06, 2020

**Standards:** FCC Part 1 (Section 1.1307(b), Section 1.1310)  
FCC Part 2 (Section 2.1091)

**References Test** IEEE C95.3 -2002

**Guidance:** KDB 680106 D01 RF Exposure Wireless Charging Apps v03

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

**Prepared by :** Celine Chou , **Date:** Nov. 12, 2020  
Celine Chou / Senior Specialist

**Approved by :** Bruce Chen , **Date:** Nov. 12, 2020  
Bruce Chen / Senior Project Engineer

## 2 General Information

### 2.1 General Description of EUT

Product	StudioDock
Brand	Kensington
Test Model	M01513
Series Model	M01509, M01550, M01551
Model Difference	Refer to note
Sample Status	Identical Prototype
Power Supply Rating	20Vdc (adapter)
Modulation Type	ASK
Operating Frequency	127.7kHz 133.0kHz
Antenna Type	Coil antenna (The Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible)
Field Strength	127.7kHz: 1.50dBuV/m 133.0kHz: 0.40dBuV/m
Dimension for iPhone charging coil	19.20cm <sup>2</sup> (Length = 48mm, width = 40mm)
Dimension for AirPods charging coil	13.85cm <sup>2</sup> (diameter = 42mm)
Accessory Device	Refer to Note as below
Data Cable Supplied	Refer to Note as below
Maximum Power Output for iPhone charging coil	10W
Maximum Power Output for AirPods charging coil	5W

Note:

- All models are listed as below. Model M01513 is the representative for final test.

Brand	Model	Description
Kensington	M01513	12.9" Main set
	M01550	
	M01509	
	M01551	11" Main set

- The EUT contains following accessory devices.

Product	Brand	Model	Description
Adapter	LITEON	PA-1131-72	I/P: 100-240Vac, 50/60Hz, 2.5A, 135W O/P: 20Vdc, 6.75A 1.6m non-shielded DC cable with 1 core 0.9m non-shielded AC cable w/o core

### 3 RF Exposure

#### 3.1 Description of Support Units

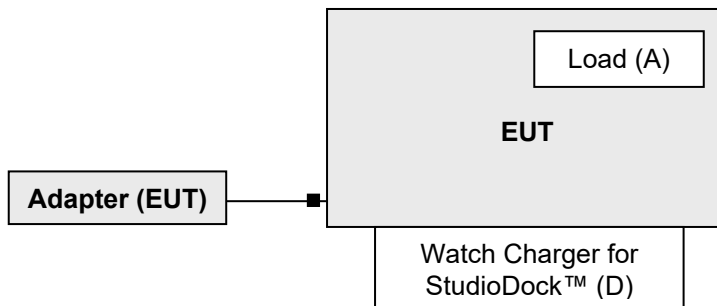
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Load	NA	NA	NA	NA	For 127.7kHz
B.	Load	NA	NA	NA	NA	For 133.0kHz
C.	Load	NA	NA	NA	NA	For 326.5kHz
D.	Watch Charger for StudioDock™	Kensington	M01552	NA	GV3M01552	Provided by manufacturer (326.5kHz)

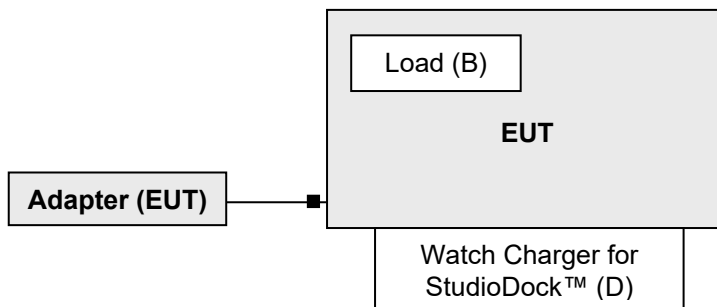
##### 3.1.1 Configuration of System under Test

###### Charging Mode:

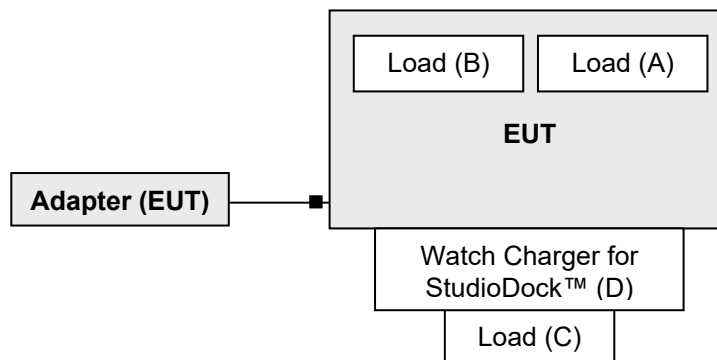
EUT wireless charging to Load for 127.7kHz



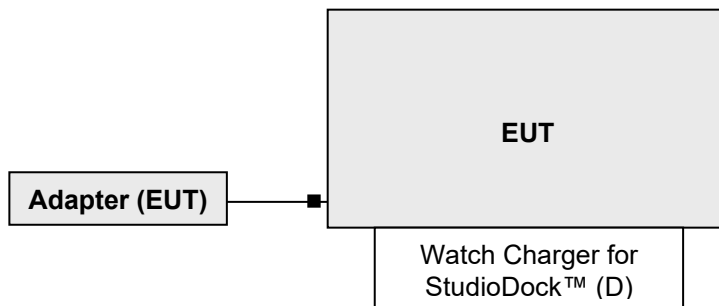
EUT wireless charging to Load for 133.0kHz



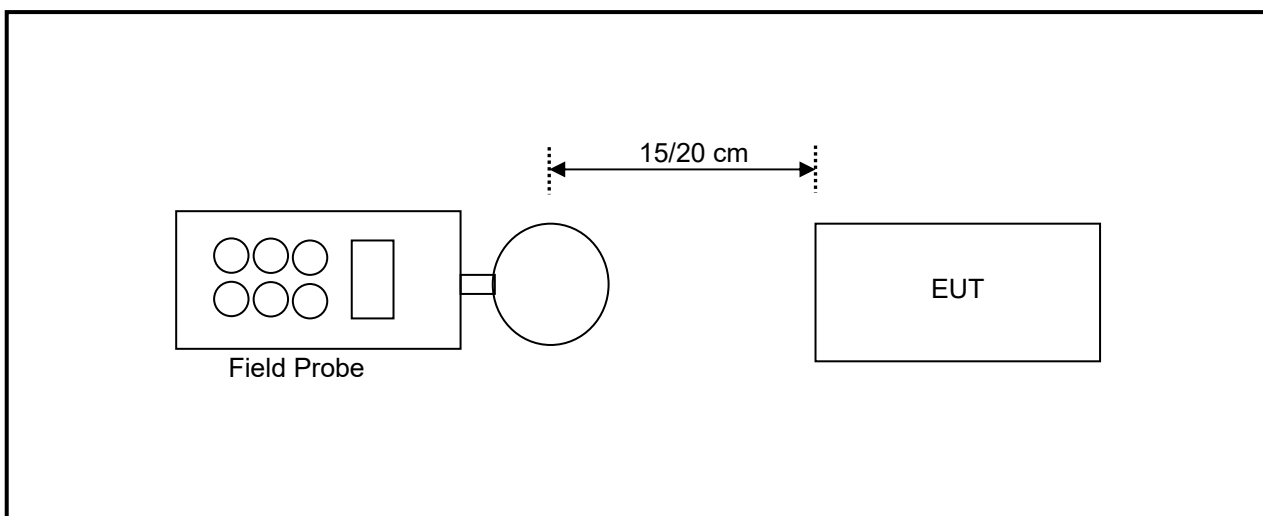
EUT wireless charging to Loads for 127.7kHz, 133.0kHz and 326.5kHz



Standby Mode:  
EUT only



### 3.2 Test Setup



Note: Measurements were made from all sides and the top of the primary/client pair, with the 15/20cm measured from the center of the probe(s) to the edge of the device.

### 3.3 Test Instruments

Description	Brand	Model No.	Frequency Range	Calibrated Date	Calibrated Until
Electric Field Meter	EMC Master	SMP2 dual	-	Nov. 03, 2020	Nov. 02, 2021
Field Probe	EMC Master	WP400	-	Nov. 03, 2020	Nov. 02, 2021

Note: 1. The calibration interval of the above test instruments is 12/24 months and the calibrations are traceable to NML/ROC and NIST/USA.  
2. The test was performed in HwaYa RF Chamber

### 3.4 Limits for Maximum Permissible Exposure (MPE)

§ 1.1310 The criteria listed in table 1 shall be used to evaluate the environmental impact of human exposure to radiofrequency(RF) radiation as specified in § 1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of § 2.1093 of this chapter.

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

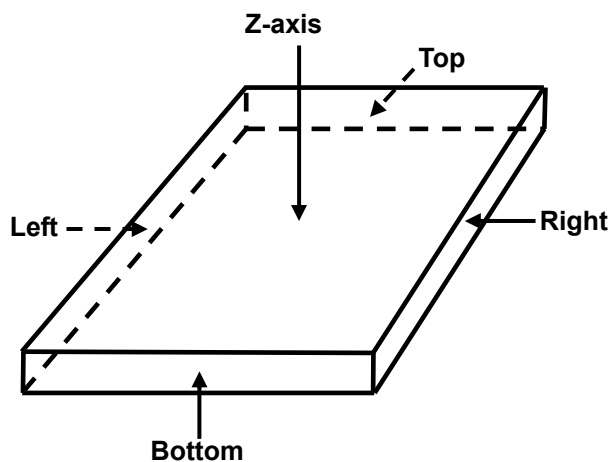
NOTE 1 TO TABLE 1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

NOTE 2 TO TABLE 1: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

### 680106 D01 RF Exposure Wireless Charging Apps v03

The aggregate H-fields strengths at 15 cm surrounding the device and 20cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

### 3.5 Test Point Description





#### 4. Calculation Result of Maximum Conducted Power

For 127.7kHz (Charging Mode)

Charging Mode with Load, battery 10% Charge

E-Field (15cm)							E-Field (20cm)
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)	Z-axis (Above)
127.7	Max E-field (V/m)	1.0200	0.9800	1.0100	0.9700	1.1400	0.8900
127.7	Limit (V/m)	614	614	614	614	614	614
127.7	Margin (V/m)	-612.9800	-613.0200	-612.9900	-613.0300	-612.8600	-613.1100
127.7	50 % Limit (V/m)	307	307	307	307	307	307
127.7	50 % Margin (V/m)	-305.9800	-306.0200	-305.9900	-306.0300	-305.8600	-306.1100

H-Field (15cm)							H-Field (20cm)
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)	Z-axis (Above)
127.7	Max H-field (uT)	0.0714	0.0722	0.0696	0.0682	0.0735	0.0557
127.7	Max H-field (A/m)	0.0571	0.0578	0.0557	0.0546	0.0588	0.0446
127.7	Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63
127.7	Margin (A/m)	-1.5729	-1.5722	-1.5743	-1.5754	-1.5712	-1.5854
127.7	50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815	0.815
127.7	50 % Margin (A/m)	-0.7579	-0.7572	-0.7593	-0.7604	-0.7562	-0.7704

Measurements were made from all sides and the top of the primary/client pair, with the 15/20cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

Charging Mode with Load, battery 50% Charge

E-Field (15cm)							E-Field (20cm)
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)	Z-axis (Above)
127.7	Max E-field (V/m)	1.0700	1.0400	1.0800	1.0300	1.2100	0.9400
127.7	Limit (V/m)	614	614	614	614	614	614
127.7	Margin (V/m)	-612.9300	-612.9600	-612.9200	-612.9700	-612.7900	-613.0600
127.7	50 % Limit (V/m)	307	307	307	307	307	307
127.7	50 % Margin (V/m)	-305.9300	-305.9600	-305.9200	-305.9700	-305.7900	-306.0600

H-Field (15cm)							H-Field (20cm)
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)	Z-axis (Above)
127.7	Max H-field (uT)	0.0763	0.0772	0.0747	0.0737	0.0769	0.0592
127.7	Max H-field (A/m)	0.0610	0.0618	0.0598	0.0590	0.0615	0.0474
127.7	Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63
127.7	Margin (A/m)	-1.5690	-1.5682	-1.5702	-1.5710	-1.5685	-1.5826
127.7	50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815	0.815
127.7	50 % Margin (A/m)	-0.7540	-0.7532	-0.7552	-0.7560	-0.7535	-0.7676

Measurements were made from all sides and the top of the primary/client pair, with the 15/20cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

Charging Mode with Load, battery Max Charge

E-Field (15cm)							E-Field (20cm)
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)	Z-axis (Above)
127.7	Max E-field (V/m)	1.1300	1.1000	1.1300	1.0900	1.2600	0.9800
127.7	Limit (V/m)	614	614	614	614	614	614
127.7	Margin (V/m)	-612.8700	-612.9000	-612.8700	-612.9100	-612.7400	-613.0200
127.7	50 % Limit (V/m)	307	307	307	307	307	307
127.7	50 % Margin (V/m)	-305.8700	-305.9000	-305.8700	-305.9100	-305.7400	-306.0200

H-Field (15cm)							H-Field (20cm)
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)	Z-axis (Above)
127.7	Max H-field (uT)	0.0814	0.0821	0.0794	0.0788	0.0821	0.0641
127.7	Max H-field (A/m)	0.0651	0.0657	0.0635	0.0630	0.0657	0.0513
127.7	Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63
127.7	Margin (A/m)	-1.5649	-1.5643	-1.5665	-1.5670	-1.5643	-1.5787
127.7	50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815	0.815
127.7	50 % Margin (A/m)	-0.7499	-0.7493	-0.7515	-0.7520	-0.7493	-0.7637

Measurements were made from all sides and the top of the primary/client pair, with the 15/20cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

For 133.0kHz (Charging Mode)

Charging Mode with Load, battery 10% Charge

E-Field (15cm)							E-Field (20cm)
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)	Z-axis (Above)
133.0	Max E-field (V/m)	0.8800	0.8900	0.9100	0.8600	0.9400	0.7600
133.0	Limit (V/m)	614	614	614	614	614	614
133.0	Margin (V/m)	-613.1200	-613.1100	-613.0900	-613.1400	-613.0600	-613.2400
133.0	50 % Limit (V/m)	307	307	307	307	307	307
133.0	50 % Margin (V/m)	-306.1200	-306.1100	-306.0900	-306.1400	-306.0600	-306.2400

H-Field (15cm)							H-Field (20cm)
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)	Z-axis (Above)
133.0	Max H-field (uT)	0.0654	0.0665	0.0659	0.0621	0.0682	0.0514
133.0	Max H-field (A/m)	0.0523	0.0532	0.0527	0.0497	0.0546	0.0411
133.0	Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63
133.0	Margin (A/m)	-1.5777	-1.5768	-1.5773	-1.5803	-1.5754	-1.5889
133.0	50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815	0.815
133.0	50 % Margin (A/m)	-0.7627	-0.7618	-0.7623	-0.7653	-0.7604	-0.7739

Measurements were made from all sides and the top of the primary/client pair, with the 15/20cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

Charging Mode with Load, battery 50% Charge

E-Field (15cm)							E-Field (20cm)
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)	Z-axis (Above)
133.0	Max E-field (V/m)	0.9400	0.9500	0.9600	0.9200	1.0100	0.8200
133.0	Limit (V/m)	614	614	614	614	614	614
133.0	Margin (V/m)	-613.0600	-613.0500	-613.0400	-613.0800	-612.9900	-613.1800
133.0	50 % Limit (V/m)	307	307	307	307	307	307
133.0	50 % Margin (V/m)	-306.0600	-306.0500	-306.0400	-306.0800	-305.9900	-306.1800

H-Field (15cm)							H-Field (20cm)
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)	Z-axis (Above)
133.0	Max H-field (uT)	0.0705	0.0714	0.0709	0.0678	0.0736	0.0567
133.0	Max H-field (A/m)	0.0564	0.0571	0.0567	0.0542	0.0589	0.0454
133.0	Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63
133.0	Margin (A/m)	-1.5736	-1.5729	-1.5733	-1.5758	-1.5711	-1.5846
133.0	50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815	0.815
133.0	50 % Margin (A/m)	-0.7586	-0.7579	-0.7583	-0.7608	-0.7561	-0.7696

Measurements were made from all sides and the top of the primary/client pair, with the 15/20cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

Charging Mode with Load, battery Max Charge

E-Field (15cm)							E-Field (20cm)
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)	Z-axis (Above)
133.0	Max E-field (V/m)	0.9900	1.0100	1.0200	0.9800	1.0800	0.8600
133.0	Limit (V/m)	614	614	614	614	614	614
133.0	Margin (V/m)	-613.0100	-612.9900	-612.9800	-613.0200	-612.9200	-613.1400
133.0	50 % Limit (V/m)	307	307	307	307	307	307
133.0	50 % Margin (V/m)	-306.0100	-305.9900	-305.9800	-306.0200	-305.9200	-306.1400

H-Field (15cm)							H-Field (20cm)
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)	Z-axis (Above)
133.0	Max H-field (uT)	0.0756	0.0765	0.0761	0.0729	0.0789	0.0622
133.0	Max H-field (A/m)	0.0605	0.0612	0.0609	0.0583	0.0631	0.0498
133.0	Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63
133.0	Margin (A/m)	-1.5695	-1.5688	-1.5691	-1.5717	-1.5669	-1.5802
133.0	50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815	0.815
133.0	50 % Margin (A/m)	-0.7545	-0.7538	-0.7541	-0.7567	-0.7519	-0.7652

Measurements were made from all sides and the top of the primary/client pair, with the 15/20cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

For 127.7kHz + 133.0kHz + 326.5kHz (Charging Mode)

Charging Mode with Loads, battery 10% Charge

E-Field (15cm)							E-Field (20cm)
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)	Z-axis (Above)
127.7 + 133.0 + 326.5	Max E-field (V/m)	0.0045	0.0044	0.0046	0.0043	0.0049	0.0039
127.7 + 133.0 + 326.5	Limit	1	1	1	1	1	1
127.7 + 133.0 + 326.5	Margin	-0.9955	-0.9956	-0.9954	-0.9957	-0.9951	-0.9961

H-Field (15cm)							H-Field (20cm)
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)	Z-axis (Above)
127.7 + 133.0 + 326.5	Max H-field (A/m)	0.0960	0.0964	0.0951	0.0920	0.1002	0.0781
127.7 + 133.0 + 326.5	Limit	1	1	1	1	1	1
127.7 + 133.0 + 326.5	Margin	-0.9040	-0.9036	-0.9049	-0.9080	-0.8998	-0.9219

Measurements were made from all sides and the top of the primary/client pair, with the 15/20cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

Charging Mode with Loads, battery 50% Charge

E-Field (15cm)							E-Field (20cm)
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)	Z-axis (Above)
127.7 + 133.0 + 326.5	Max E-field (V/m)	0.0049	0.0048	0.0050	0.0047	0.0053	0.0043
127.7 + 133.0 + 326.5	Limit	1	1	1	1	1	1
127.7 + 133.0 + 326.5	Margin	-0.9951	-0.9952	-0.9950	-0.9953	-0.9947	-0.9957

H-Field (15cm)							H-Field (20cm)
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)	Z-axis (Above)
127.7 + 133.0 + 326.5	Max H-field (A/m)	0.1034	0.1038	0.1025	0.1000	0.1070	0.0842
127.7 + 133.0 + 326.5	Limit	1	1	1	1	1	1
127.7 + 133.0 + 326.5	Margin	-0.8966	-0.8962	-0.8975	-0.9000	-0.8930	-0.9158

Measurements were made from all sides and the top of the primary/client pair, with the 15/20cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.



Charging Mode with Loads, battery Max Charge

E-Field (15cm)							E-Field (20cm)
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)	Z-axis (Above)
127.7 + 133.0 + 326.5	Max E-field (V/m)	0.0053	0.0052	0.0054	0.0051	0.0057	0.0046
127.7 + 133.0 + 326.5	Limit	1	1	1	1	1	1
127.7 + 133.0 + 326.5	Margin	-0.9947	-0.9948	-0.9946	-0.9949	-0.9943	-0.9954

H-Field (15cm)							H-Field (20cm)
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)	Z-axis (Above)
127.7 + 133.0 + 326.5	Max H-field (A/m)	0.1108	0.1112	0.1098	0.1075	0.1146	0.0911
127.7 + 133.0 + 326.5	Limit	1	1	1	1	1	1
127.7 + 133.0 + 326.5	Margin	-0.8892	-0.8888	-0.8902	-0.8925	-0.8854	-0.9089

Measurements were made from all sides and the top of the primary/client pair, with the 15/20cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

For 127.7kHz + 133.0kHz + 326.5kHz (Standby Mode)

Standby Mode

E-Field (15cm)							E-Field (20cm)
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)	Z-axis (Above)
127.7 + 133.0 + 326.5	Max E-field (V/m)	0.0023	0.0023	0.0023	0.0022	0.0026	0.0017
127.7 + 133.0 + 326.5	Limit	1	1	1	1	1	1
127.7 + 133.0 + 326.5	Margin	-0.9977	-0.9977	-0.9977	-0.9978	-0.9974	-0.9983

H-Field (15cm)							H-Field (20cm)
Frequency (kHz)	EUT Side	Left	Right	Top	Bottom	Z-axis (Above)	Z-axis (Above)
127.7 + 133.0 + 326.5	Max H-field (A/m)	0.0561	0.0571	0.0556	0.0526	0.0581	0.0369
127.7 + 133.0 + 326.5	Limit	1	1	1	1	1	1
127.7 + 133.0 + 326.5	Margin	-0.9439	-0.9429	-0.9444	-0.9474	-0.9419	-0.9631

Measurements were made from all sides and the top of the primary/client pair, with the 15/20cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

## 5. Photographs of the Test Configuration

Please refer to the attached file (Test Setup Photo).

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