

RF Exposure Report

Report No.: MFBCBS-WTW-P23110287

FCC ID: K7SWIA008

Test Model: WIA008

Received Date: Nov. 10, 2023

Test Date: Nov. 21 ~ Nov. 22, 2023

Issued Date: Jan. 02, 2024

Applicant: Belkin International, Inc.

Address: 555 S. Aviation Blvd., Suite 180, El Segundo, CA 90245, USA

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

Lin Kou Laboratories

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33383, TAIWAN

FCC Registration / 788550 / TW0003

Designation Number:





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Release Control Record

Issue No.	Description	Date Issued
MFBCBS-WTW-P23110287	Original release	Jan. 02, 2024



1 Certificate of Conformity

Product: BoostCharge Pro Convertible Magnetic Charging Stand

Brand: belkin

Test Model: WIA008

Sample Status: Engineering sample

Applicant: Belkin International, Inc.

Test Date: Nov. 21 ~ Nov. 22, 2023

FCC Rule Part: FCC Part 1 (Section 1.1307(b), Section 1.1310)

FCC Part 2 (Section 2.1091)

Standards: KDB 680106 D01 RF Exposure Wireless Charging Apps v04

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 : , Date: Jan. 02, 2024

Polly Chien / Specialist

Approved by: , **Date:** Jan. 02, 2024

Jeremy Lin / Project Engineer



2 General Information

2.1 General Description of EUT

Product	BoostCharge Pro Convertible Magnetic Charging Stand				
Brand	belkin				
Test Model	WIA008				
Sample Status	Engineering sample				
Power Supply Rating	5 or 3.3-5.9 or 3.3-11.0 or 9 or 12 Vdc (adapter)				
Modulation Type	FSK				
Operating Fraguency	127.7kHz for iPhone (8-11 series)				
Operating Frequency	360.0kHz for iPhone (12 series up)				
Antenna Type	Coil antenna				
	127.7kHz: -26.2dBuV/m (PK) (300m)				
Field Strength	-35.7dBuV/m (AV) (300m)				
Fleid Strettgill	360.0kHz: -24.0dBuV/m (PK) (300m)				
	-29.3dBuV/m (AV) (300m)				
Accessory Device	Refer to Note as below				
Data Cable Supplied	Refer to Note as below				
Maximum Power Output for	15\\\				
Qi2 charging coil	15W				
Dimension for iPhone	1195mm² (Diameter=39mm)				
charging coil	1195Hilli- (Diameter=39ffiffi)				

Note:

1. The EUT contains following accessory devices.

Item	Brand	Model	Description
Adapter (Option)	belkin	A829-120167C-US1	I/P: 100-240Vac, 50/60Hz, 0.5A O/P: 5Vdc, 3.0A; 9Vdc, 2.23A; 12Vdc, 1.67A; 3.3-5.9Vdc, 3.0A,17.7W MAX; 3.3-11.0Vdc, 2.2A, 20.0W MAX
Type C to Type C USB Cable	CE-Link	UTC-C-5FT-BK-01/ UTC-C-5FT-WH-01	1.5m shielding cable

- 2. The EUT has two exterior colors: black and white.
- 3. Due to radiated measurements are made and the antenna gain is already accounted for this device, so provide an antenna datasheet and/or antenna measurement report is not required. The antenna dimensions and pictures (include antenna wire length if have) are stated in EUT photo exhibit.
- 4. Only radiated measurements are used to show compliance with FCC limits for fundamental and spurious emissions.



2.2 Description of Test Modes

Test Mode	Tested Frequency
Α	Charging Mode (EUT with RX Load) - 360.0kHz
В	Charging Mode (EUT with iPhone 11) – 127.7kHz
С	Charging Mode (EUT with iPhone 15) – 360.0kHz
D	Standby Mode

Note: EUT can be used in the following ways: Standing w/ Charging Pad_Vertical & Horizontal. Pre-scan these ways and find the worst case as a representative test condition. The horizontal was the worst case for final test and presented in the test report.



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.	Adapter	belkin	A829-120167C-US1	NA	NA	Provided by manufacturer
В.	DV Load	Nuvolta	NIA	NIA	NIA	360kHz
Б.	B. RX Load	Nuvoita	NA	NA	NA	Provided by manufacturer
	C. iPhone 11 APPLE		A224E	NIA	BCG-E3309A	127.7kHz
C.			A2215	NA	BCG-E3309A	Provided by manufacturer
	iDhama 45		42402		DOC 54024A	360kHz
D. iPhone 15	iPrione 15	iPhone 15 APPLE A310		NA	BCG-E4031A	Provided by manufacturer

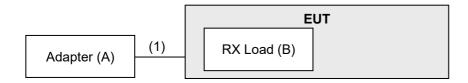
ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	Type C to Type C USB Cable	1	1.5	Υ	0	Accessory of EUT



3.1.1 Configuration of System under Test

Charging Mode:

Test Mode A



Test Mode B



Test Mode C



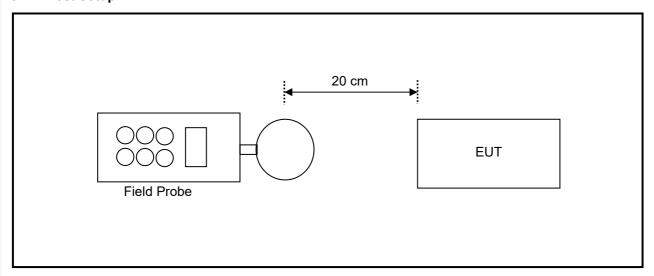
Standby Mode:

Test Mode D





3.2 Test Setup



Note: Measurements were made from all sides and the top of the primary/client pair, with the 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
EM Field Meter	Wavecontrol	SMP2 Dual	-	May 15, 2023	May 14, 2024
Magnetic Probe	Wavecontrol	WPH60	300kHz – 60MHz	May 15, 2023	May 14, 2024
EM Field Probe	Wavecontrol	WP400	1Hz – 400kHz	Mar. 02, 2023	Mar. 01, 2024
E-Field Probe	Wavecontrol	WPF3	100kHz – 3GHz	May 16, 2023	May 15, 2024

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



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 Magnetic field strength (V/m) (A/m)		Power density (mW/cm²)	Averaging time (minutes)
(A) Lim	its for Occupational	/Controlled Exposur	es	
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f2)	6
30–300	61.4	0.163	1.0	6
300–1500			f/300	6
1500-100,000			5	6
(B) Limits t	for General Populati	on/Uncontrolled Exp	oosure	
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f²)	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

T = trequency 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 exposure or can not exercise control over their exposure.

exposure or can not exercise control over their exposure.

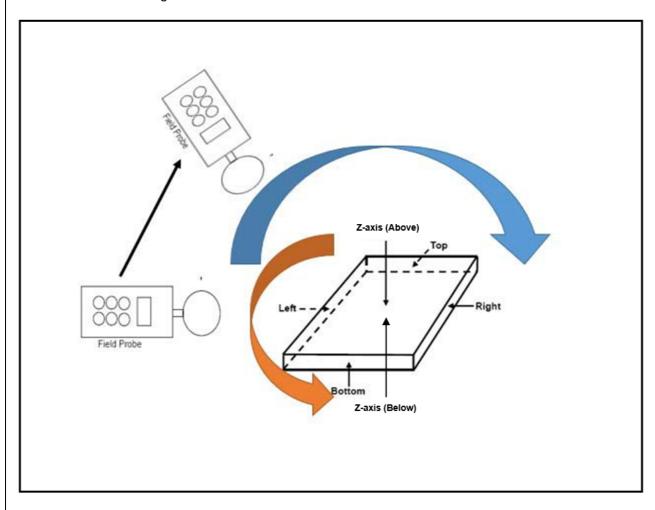
680106 D01 RF Exposure Wireless Charging Apps v04, section 3.2 as reproduced below:

3.2 Equipment Authorization Procedures for Devices Operating at Frequencies Below 4 MHz The RF exposure limits, as set forth in § 1.1310, do not cover the frequency range below 100 kHz for Specific Absorption Rate (SAR) and below 300 kHz for Maximum Permitted Exposure (MPE). In addition, present limitations of RF exposure evaluation systems prevent an accurate evaluation of SAR below 4 MHz. For these reasons, a specific MPE-based RF Exposure compliance procedure for devices operating in the aforementioned low-frequency ranges has been set in place. Accordingly, for § 2.1091-Mobile devices, the MPE limits between 100 kHz to 300 kHz are to be considered the same as those at 300 kHz in Table 1 of § 1.1310, that is, 614 V/m and 1.63 A/m, for the electric field and magnetic field, respectively.



3.5 Test Point Description

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





4. Calculation Result of Maximum Conducted Power

Test Mode A

Operated Mode: Charging 10%

E-Field (20cm)										
Frequency (kHz)	EUT Side	Left	Right	Тор	Bottom	Z-axis (Above)	Z-axis (Below)			
360.0	Max E-field (V/m)	0.9500	1.0000	1.0500	1.0300	1.5000	1.2700			
360.0	Limit (V/m)	614	614	614	614	614	614			
360.0	Margin (V/m)	-613.0500	-613.0000	-612.9500	-612.9700	-612.5000	-612.7300			
360.0	50 % Limit (V/m)	307	307	307	307	307	307			
360.0	50 % Margin (V/m)	-306.0500	-306.0000	-305.9500	-305.9700	-305.5000	-305.7300			

	H-Field (20cm)										
Frequency (kHz)	EUT Side	Left	Right	Тор	Bottom	Z-axis (Above)	Z-axis (Below)				
360.0	Max H-field (uT)	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400				
360.0	Max H-field (A/m)	0.0320	0.0320	0.0320	0.0320	0.0320	0.0320				
360.0	Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63				
360.0	Margin (A/m)	-1.5980	-1.5980	-1.5980	-1.5980	-1.5980	-1.5980				
360.0	50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815	0.815				
360.0	50 % Margin (A/m)	-0.7830	-0.7830	-0.7830	-0.7830	-0.7830	-0.7830				



Operated Mode: Charging 50%

	E-Field (20cm)										
Frequency (kHz)	EUT Side	Left	Right	Тор	Bottom	Z-axis (Above)	Z-axis (Below)				
360.0	Max E-field (V/m)	0.9600	1.0200	1.0900	1.0300	1.5200	1.2800				
360.0	Limit (V/m)	614	614	614	614	614	614				
360.0	Margin (V/m)	-613.0400	-612.9800	-612.9100	-612.9700	-612.4800	-612.7200				
360.0	50 % Limit (V/m)	307	307	307	307	307	307.0000				
360.0	50 % Margin (V/m)	-306.0400	-305.9800	-305.9100	-305.9700	-305.4800	-305.7200				

	H-Field (20cm)										
Frequency (kHz)	EUT Side	Left	Right	Тор	Bottom	Z-axis (Above)	Z-axis (Below)				
360.0	Max H-field (uT)	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400				
360.0	Max H-field (A/m)	0.0320	0.0320	0.0320	0.0320	0.0320	0.0320				
360.0	Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63				
360.0	Margin (A/m)	-1.5980	-1.5980	-1.5980	-1.5980	-1.5980	-1.5980				
360.0	50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815	0.815				
360.0	50 % Margin (A/m)	-0.7830	-0.7830	-0.7830	-0.7830	-0.7830	-0.7830				



Charging Mode, battery Max Charge

	E-Field (20cm)										
Frequency (kHz)	EUT Side	Left	Right	Тор	Bottom	Z-axis (Above)	Z-axis (Below)				
360.0	Max E-field (V/m)	0.9600	1.0200	1.1300	1.0400	1.5500	1.3400				
360.0	Limit (V/m)	614	614	614	614	614	614				
360.0	Margin (V/m)	-613.0400	-612.9800	-612.8700	-612.9600	-612.4500	-612.6600				
360.0	50 % Limit (V/m)	307	307	307	307	307	307				
360.0	50 % Margin (V/m)	-306.0400	-305.9800	-305.8700	-305.9600	-305.4500	-305.6600				

	H-Field (20cm)										
Frequency (kHz)	EUT Side	Left	Right	Тор	Bottom	Z-axis (Above)	Z-axis (Below)				
360.0	Max H-field (uT)	0.0400	0.0400	0.0400	0.0500	0.0500	0.0400				
360.0	Max H-field (A/m)	0.0320	0.0320	0.0320	0.0400	0.0400	0.0320				
360.0	Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63				
360.0	Margin (A/m)	-1.5980	-1.5980	-1.5980	-1.5900	-1.5900	-1.5980				
360.0	50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815	0.815				
360.0	50 % Margin (A/m)	-0.7830	-0.7830	-0.7830	-0.7750	-0.7750	-0.7830				



Test Mode B
Operated Mode: Charging 10%

	E-Field (20cm)										
Frequency (kHz)	EUT Side	Left	Right	Тор	Bottom	Z-axis (Above)	Z-axis (Below)				
127.7	Max E-field (V/m)	0.5000	0.7400	0.9800	0.6000	0.7400	0.6200				
127.7	Limit (V/m)	614	614	614	614	614	614				
127.7	Margin (V/m)	-613.5000	-613.2600	-613.0200	-613.4000	-613.2600	-613.3800				
127.7	50 % Limit (V/m)	307	307	307	307	307	307				
127.7	50 % Margin (V/m)	-306.5000	-306.2600	-306.0200	-306.4000	-306.2600	-306.3800				

	H-Field (20cm)										
Frequency (kHz)	EUT Side	Left	Right	Тор	Bottom	Z-axis (Above)	Z-axis (Below)				
127.7	Max H-field (uT)	0.0400	0.0400	0.0400	0.0400	0.0500	0.0400				
127.7	Max H-field (A/m)	0.0320	0.0320	0.0320	0.0320	0.0400	0.0320				
127.7	Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63				
127.7	Margin (A/m)	-1.5980	-1.5980	-1.5980	-1.5980	-1.5900	-1.5980				
127.7	50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815	0.815				
127.7	50 % Margin (A/m)	-0.7830	-0.7830	-0.7830	-0.7830	-0.7750	-0.7830				



Operated Mode: Charging 50%

	E-Field (20cm)										
Frequency (kHz)	EUT Side	Left	Right	Тор	Bottom	Z-axis (Above)	Z-axis (Below)				
127.7	Max E-field (V/m)	0.5000	0.7600	1.0100	0.6200	0.7500	0.6300				
127.7	Limit (V/m)	614	614	614	614	614	614				
127.7	Margin (V/m)	-613.5000	-613.2400	-612.9900	-613.3800	-613.2500	-613.3700				
127.7	50 % Limit (V/m)	307	307	307	307	307	307.0000				
127.7	50 % Margin (V/m)	-306.5000	-306.2400	-305.9900	-306.3800	-306.2500	-306.3700				

	H-Field (20cm)										
Frequency (kHz)	EUT Side	Left	Right	Тор	Bottom	Z-axis (Above)	Z-axis (Below)				
127.7	Max H-field (uT)	0.0400	0.0400	0.0400	0.0500	0.0500	0.0500				
127.7	Max H-field (A/m)	0.0320	0.0320	0.0320	0.0400	0.0400	0.0400				
127.7	Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63				
127.7	Margin (A/m)	-1.5980	-1.5980	-1.5980	-1.5900	-1.5900	-1.5900				
127.7	50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815	0.815				
127.7	50 % Margin (A/m)	-0.7830	-0.7830	-0.7830	-0.7750	-0.7750	-0.7750				



Charging Mode, battery Max Charge

	E-Field (20cm)										
Frequency (kHz)	EUT Side	Left	Right	Тор	Bottom	Z-axis (Above)	Z-axis (Below)				
127.7	Max E-field (V/m)	0.5200	0.7800	1.0200	0.6400	0.7600	0.6300				
127.7	Limit (V/m)	614	614	614	614	614	614				
127.7	Margin (V/m)	-613.4800	-613.2200	-612.9800	-613.3600	-613.2400	-613.3700				
127.7	50 % Limit (V/m)	307	307	307	307	307	307				
127.7	50 % Margin (V/m)	-306.4800	-306.2200	-305.9800	-306.3600	-306.2400	-306.3700				

	H-Field (20cm)										
Frequency (kHz)	EUT Side	Left	Right	Тор	Bottom	Z-axis (Above)	Z-axis (Below)				
127.7	Max H-field (uT)	0.0400	0.0400	0.0500	0.0500	0.0600	0.0500				
127.7	Max H-field (A/m)	0.0320	0.0320	0.0400	0.0400	0.0480	0.0400				
127.7	Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63				
127.7	Margin (A/m)	-1.5980	-1.5980	-1.5900	-1.5900	-1.5820	-1.5900				
127.7	50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815	0.815				
127.7	50 % Margin (A/m)	-0.7830	-0.7830	-0.7750	-0.7750	-0.7670	-0.7750				



Test Mode C
Operated Mode: Charging 10%

	E-Field (20cm)										
Frequency (kHz)	EUT Side	Left	Right	Тор	Bottom	Z-axis (Above)	Z-axis (Below)				
360.0	Max E-field (V/m)	0.7400	0.9200	0.9200	0.8000	0.6200	0.5500				
360.0	Limit (V/m)	614	614	614	614	614	614				
360.0	Margin (V/m)	-613.2600	-613.0800	-613.0800	-613.2000	-613.3800	-613.4500				
360.0	50 % Limit (V/m)	307	307	307	307	307	307				
360.0	50 % Margin (V/m)	-306.2600	-306.0800	-306.0800	-306.2000	-306.3800	-306.4500				

	H-Field (20cm)										
Frequency (kHz)	EUT Side	Left	Right	Тор	Bottom	Z-axis (Above)	Z-axis (Below)				
360.0	Max H-field (uT)	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400				
360.0	Max H-field (A/m)	0.0320	0.0320	0.0320	0.0320	0.0320	0.0320				
360.0	Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63				
360.0	Margin (A/m)	-1.5980	-1.5980	-1.5980	-1.5980	-1.5980	-1.5980				
360.0	50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815	0.815				
360.0	50 % Margin (A/m)	-0.7830	-0.7830	-0.7830	-0.7830	-0.7830	-0.7830				



Operated Mode: Charging 50%

	E-Field (20cm)										
Frequency (kHz)	EUT Side	Left	Right	Тор	Bottom	Z-axis (Above)	Z-axis (Below)				
360.0	Max E-field (V/m)	0.7500	0.9400	0.9300	0.8000	0.6200	0.5500				
360.0	Limit (V/m)	614	614	614	614	614	614				
360.0	Margin (V/m)	-613.2500	-613.0600	-613.0700	-613.2000	-613.3800	-613.4500				
360.0	50 % Limit (V/m)	307	307	307	307	307	307.0000				
360.0	50 % Margin (V/m)	-306.2500	-306.0600	-306.0700	-306.2000	-306.3800	-306.4500				

H-Field (20cm)							
Frequency (kHz)	EUT Side	Left	Right	Тор	Bottom	Z-axis (Above)	Z-axis (Below)
360.0	Max H-field (uT)	0.0400	0.0400	0.0400	0.0400	0.0400	0.0400
360.0	Max H-field (A/m)	0.0320	0.0320	0.0320	0.0320	0.0320	0.0320
360.0	Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63
360.0	Margin (A/m)	-1.5980	-1.5980	-1.5980	-1.5980	-1.5980	-1.5980
360.0	50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815	0.815
360.0	50 % Margin (A/m)	-0.7830	-0.7830	-0.7830	-0.7830	-0.7830	-0.7830



Charging Mode, battery Max Charge

E-Field (20cm)							
Frequency (kHz)	EUT Side	Left	Right	Тор	Bottom	Z-axis (Above)	Z-axis (Below)
360.0	Max E-field (V/m)	0.7600	0.9400	0.9500	0.8200	0.6400	0.5700
360.0	Limit (V/m)	614	614	614	614	614	614
360.0	Margin (V/m)	-613.2400	-613.0600	-613.0500	-613.1800	-613.3600	-613.4300
360.0	50 % Limit (V/m)	307	307	307	307	307	307
360.0	50 % Margin (V/m)	-306.2400	-306.0600	-306.0500	-306.1800	-306.3600	-306.4300

		F	I-Field (20cn	n)			
Frequency (kHz)	EUT Side	Left	Right	Тор	Bottom	Z-axis (Above)	Z-axis (Below)
360.0	Max H-field (uT)	0.0400	0.0400	0.0400	0.0400	0.0500	0.0400
360.0	Max H-field (A/m)	0.0320	0.0320	0.0320	0.0320	0.0400	0.0320
360.0	Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63
360.0	Margin (A/m)	-1.5980	-1.5980	-1.5980	-1.5980	-1.5900	-1.5980
360.0	50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815	0.815
360.0	50 % Margin (A/m)	-0.7830	-0.7830	-0.7830	-0.7830	-0.7750	-0.7830



307

-306.6700

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Test Mode D Standby Mode

50 % Limit (V/m)

50 % Margin (V/m)

E-Field (20cm) Z-axis Z-axis **EUT Side** Left **Bottom** Right Top (Below) (Above) 0.2900 0.3500 0.3300 0.3900 0.4200 0.3300 Max E-field (V/m) 614 614 Limit (V/m) 614 614 614 614 -613.6500 -613.6700 Margin (V/m) -613.7100 -613.6700 -613.6100 -613.5800

307

-306.6500

307

-306.6700

307

-306.6100

307

-306.5800

307

-306.7100

H-Field (20cm)						
EUT Side	Left	Right	Тор	Bottom	Z-axis (Above)	Z-axis (Below)
Max H-field (uT)	0.0400	0.0500	0.0400	0.0400	0.0400	0.0400
Max H-field (A/m)	0.0320	0.0400	0.0320	0.0320	0.0320	0.0320
Limit (A/m)	1.63	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.5980	-1.5900	-1.5980	-1.5980	-1.5980	-1.5980
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.7830	-0.7750	-0.7830	-0.7830	-0.7830	-0.7830



5. Photographs of the Test Configuration
Please refer to the attached file (Test Setup Photo).
END

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