

## RF Exposure Test Report

**Report No.:** SA180709D11

**FCC ID:** K7SF7U068

**Test Model:** F7U067

**Series Model:** F7U068

**Received Date:** Jul. 9, 2018

**Test Date:** Jul. 17 ~ 18, 2018

**Issued Date:** Jul. 30, 2018

**Applicant:** Belkin International., Inc

**Address:** 12045 East Waterfront Drive, Playa Vista, CA 90094

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

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

**FCC Registration /  
Designation Number:** 198487 / TW2021



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### Release Control Record

Issue No.	Description	Date Issued
SA180709D11	Original release	Jul. 30, 2018

## 1 Certificate of Conformity

**Product:** BOOST↑UP™ Wireless Charging Pad 5W

**Brand:** belkin

**Test Model:** F7U067

**Series Model:** F7U068

**Sample Status:** Engineering sample

**Applicant:** Belkin International., Inc

**Test Date:** Jul. 17 ~ 18, 2018

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

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 :** Annie Chang, **Date:** Jul. 30, 2018  
Annie Chang / Senior Specialist

**Approved by :** Rex Lai, **Date:** Jul. 30, 2018  
Rex Lai / Associate Technical Manager

## 2 General Information

### 2.1 General Description of EUT

Product	BOOST↑UP™ Wireless Charging Pad 5W
Brand	belkin
Test Model	F7U067
Series Model	F7U068
Model Difference	Refer to note as below
Sample Status	Engineering sample
Power Supply Rating	5Vdc (adapter)
Modulation Type	FSK
Operating Frequency	111-148kHz
Antenna Type	Coil antenna
Field Strength	77.97dBuV/m
Dimensions	70.136cm <sup>2</sup> (diameter = 94.5mm)
Accessory Device	Adapter
Data Cable Supplied	1.3m shielded USB cable without core
Maximum Power Output from the Charging Coil	Max Power Should be 5W

Note:

1. The EUT is a wireless inductive charging coil for charging Phone.
2. All models are listed as below. The model: F7U067 was selected as a representative one and therefore only its test data was recorded in this report.

Brand	Model	Difference
belkin	F7U067	Wireless Charging Pad + Wall Charger + USB cable
	F7U068	Wireless Charging Pad + USB cable

3. The EUT uses following adapter.

Brand	belkin
Model	HNEM050200UU
Input power	100-240Vac 50/60Hz 0.35A MAX
Output power	5.0Vdc 2.0A

### 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.

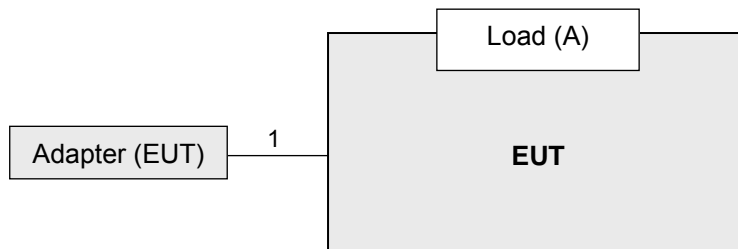
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Load	NA	NA	NA	NA	Provided by manufacturer
B.	iPhone X	Apple	A1901	NA	BCG-E3175A	Provided by manufacturer

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	USB cable	1	1.3	Y	0	Supplied by client

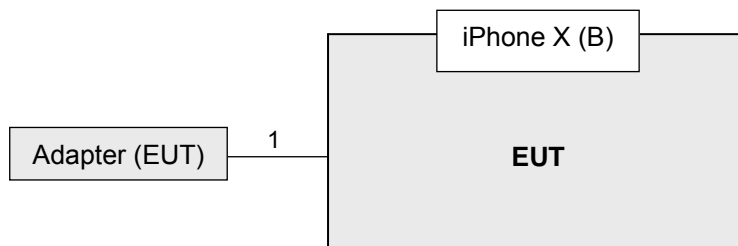
Note: The core(s) is(are) originally attached to the cable(s)

#### 3.1.1 Configuration of System Under Test

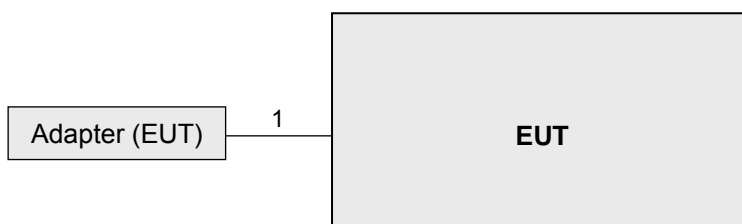
Charging Mode with Load



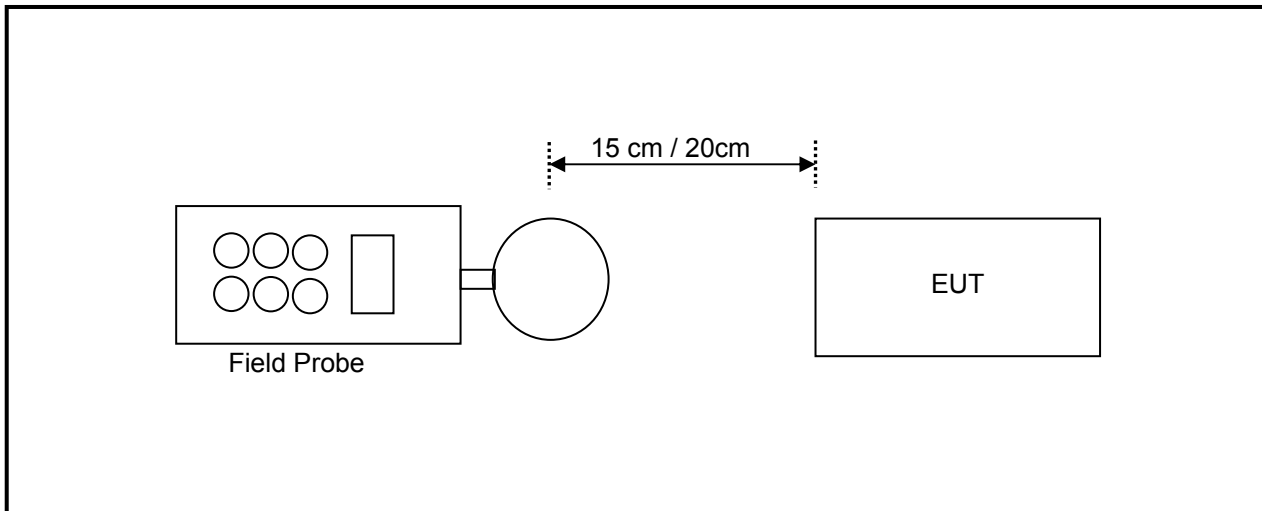
Charging Mode with iPhone



Standby Mode



### 3.2 Test Setup



Note: Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm 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
Broadband Field Meter	NARDA	NBM-550	-	Mar. 28, 2018	Mar. 27, 2020
Magnetic Field Meter	NARDA	ELT-400	1 – 400kHz	Apr. 12, 2018	Apr. 11, 2020
Magnetic Probe	NARDA	HF-3061	300kHz – 30MHz	Apr. 16, 2018	Apr. 15, 2020
Magnetic Probe	NARDA	HF-0191	27 – 1000MHz	Apr. 17, 2018	Apr. 16, 2020
Broadband Field Meter	NARDA	NBM-550	-	Mar. 28, 2018	Mar. 27, 2020
Electric Field Meter	COMBINOVA	EFM 200	5Hz – 400kHz	Dec. 6, 2017	Dec. 5, 2019
E-Field Probe	NARDA	EF-0391	100kHz – 3GHz	Mar. 28, 2018	Mar. 27, 2020
E-Field Probe	NARDA	EF-6091	100MHz – 60GHz	Mar. 29, 2018	Mar. 28, 2020

- 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 Chia Pau 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

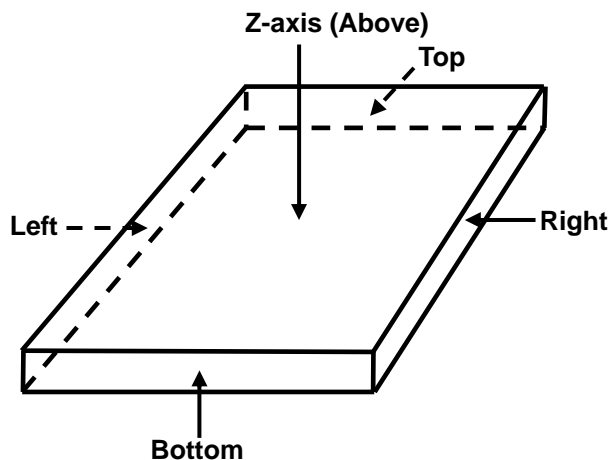
NOTE 1 TO TABLE 1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply 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.

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The aggregate H-field strengths at 15 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.

### 3.5 Test Point Description





#### 4 Calculation Result Of Maximum Conducted Power

Charging Mode with Load Charge (at center)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.62	0.89	0.95	1.22	1.53
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.38	-613.11	-613.05	-612.78	-612.47
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.38	-306.11	-306.05	-305.78	-305.47

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.153	0.178	0.159	0.177	0.219
Max H-field (A/m)	0.1224	0.1424	0.1272	0.1416	0.1752
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.5076	-1.4876	-1.5028	-1.4884	-1.4548
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6926	-0.6726	-0.6878	-0.6734	-0.6398

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

Charging Mode with Load Charge (shift 5mm to right)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.81	1.08	1.14	1.41	1.72
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.19	-612.92	-612.86	-612.59	-612.28
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.19	-305.92	-305.86	-305.59	-305.28

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.216	0.241	0.222	0.24	0.282
Max H-field (A/m)	0.1728	0.1928	0.1776	0.192	0.2256
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4572	-1.4372	-1.4524	-1.438	-1.4044
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6422	-0.6222	-0.6374	-0.623	-0.5894

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

Charging Mode with Load Charge (shift 5mm to left)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.64	0.91	0.97	1.24	1.55
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.36	-613.09	-613.03	-612.76	-612.45
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.36	-306.09	-306.03	-305.76	-305.45

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.136	0.161	0.142	0.160	0.202
Max H-field (A/m)	0.1088	0.1288	0.1136	0.128	0.1616
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.5212	-1.5012	-1.5164	-1.502	-1.4684
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.7062	-0.6862	-0.7014	-0.687	-0.6534

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

Charging Mode with Load Charge (shift 5mm to top)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.88	1.15	1.21	1.48	1.79
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.12	-612.85	-612.79	-612.52	-612.21
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.12	-305.85	-305.79	-305.52	-305.21

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.268	0.293	0.274	0.292	0.334
Max H-field (A/m)	0.2144	0.2344	0.2192	0.2336	0.2672
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4156	-1.3956	-1.4108	-1.3964	-1.3628
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6006	-0.5806	-0.5958	-0.5814	-0.5478

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

Charging Mode with Load Charge (shift 5mm to bottom)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.73	1	1.06	1.33	1.64
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.27	-613	-612.94	-612.67	-612.36
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.27	-306.00	-305.94	-305.67	-305.36

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.182	0.207	0.188	0.206	0.248
Max H-field (A/m)	0.1456	0.1656	0.1504	0.1648	0.1984
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4844	-1.4644	-1.4796	-1.4652	-1.4316
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6694	-0.6494	-0.6646	-0.6502	-0.6166

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

Charging Mode with Load Charge 3mm airgap (at center)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.77	1.04	1.1	1.37	1.68
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.23	-612.96	-612.9	-612.63	-612.32
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.23	-305.96	-305.9	-305.63	-305.32

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.181	0.206	0.187	0.205	0.247
Max H-field (A/m)	0.1448	0.1648	0.1496	0.164	0.1976
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4852	-1.4652	-1.4804	-1.466	-1.4324
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6702	-0.6502	-0.6654	-0.651	-0.6174

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

Charging Mode with Load Charge 3mm airgap (shift 5mm to right)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.95	1.22	1.28	1.55	1.86
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.05	-612.78	-612.72	-612.45	-612.14
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.05	-305.78	-305.72	-305.45	-305.14

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.295	0.32	0.301	0.319	0.361
Max H-field (A/m)	0.236	0.256	0.2408	0.2552	0.2888
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.394	-1.374	-1.3892	-1.3748	-1.3412
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.579	-0.559	-0.5742	-0.5598	-0.5262

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

Charging Mode with Load Charge 3mm airgap (shift 5mm to left)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.85	1.12	1.18	1.45	1.76
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.15	-612.88	-612.82	-612.55	-612.24
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.15	-305.88	-305.82	-305.55	-305.24

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.257	0.282	0.263	0.281	0.323
Max H-field (A/m)	0.2056	0.2256	0.2104	0.2248	0.2584
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4244	-1.4044	-1.4196	-1.4052	-1.3716
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6094	-0.5894	-0.6046	-0.5902	-0.5566

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

Charging Mode with Load Charge 3mm airgap (shift 5mm to top)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.9	1.17	1.23	1.5	1.81
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.1	-612.83	-612.77	-612.5	-612.19
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.1	-305.83	-305.77	-305.5	-305.19

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.139	0.164	0.145	0.163	0.205
Max H-field (A/m)	0.1112	0.1312	0.116	0.1304	0.164
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.5188	-1.4988	-1.514	-1.4996	-1.466
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.7038	-0.6838	-0.699	-0.6846	-0.651

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

Charging Mode with Load Charge 3mm airgap (shift 5mm to bottom)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.82	1.09	1.15	1.42	1.73
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.18	-612.91	-612.85	-612.58	-612.27
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.18	-305.91	-305.85	-305.58	-305.27

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.21	0.235	0.216	0.234	0.276
Max H-field (A/m)	0.168	0.188	0.1728	0.1872	0.2208
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.462	-1.442	-1.4572	-1.4428	-1.4092
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.647	-0.627	-0.6422	-0.6278	-0.5942

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

Charging Mode with iPhone X 10% Charge (at center)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.23	1.15	0.96	1.78	1.52
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.77	-612.85	-613.04	-612.22	-612.48
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.77	-305.85	-306.04	-305.22	-305.48

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.221	0.281	0.234	0.258	0.296
Max H-field (A/m)	0.1768	0.2248	0.1872	0.2064	0.2368
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4532	-1.4052	-1.4428	-1.4236	-1.3932
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6382	-0.5902	-0.6278	-0.6086	-0.5782

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

Charging Mode with iPhone X 50% Charge (at center)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.18	1.26	1.08	1.63	1.71
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.82	-612.74	-612.92	-612.37	-612.29
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.82	-305.74	-305.92	-305.37	-305.29

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.219	0.298	0.248	0.246	0.302
Max H-field (A/m)	0.1752	0.2384	0.1984	0.1968	0.2416
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4548	-1.3916	-1.4316	-1.4332	-1.3884
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6398	-0.5766	-0.6166	-0.6182	-0.5734

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

Charging Mode with iPhone X 90% Charge (at center)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.23	1.32	1.11	1.57	1.79
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.77	-612.68	-612.89	-612.43	-612.21
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.77	-305.68	-305.89	-305.43	-305.21

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.262	0.314	0.267	0.239	0.289
Max H-field (A/m)	0.2096	0.2512	0.2136	0.1912	0.2312
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4204	-1.3788	-1.4164	-1.4388	-1.3988
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6054	-0.5638	-0.6014	-0.6238	-0.5838

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

Charging Mode with iPhone X 10% Charge (shift 5mm to right)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.26	1.17	1.14	1.48	1.36
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.74	-612.83	-612.86	-612.52	-612.64
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.74	-305.83	-305.86	-305.52	-305.64

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.211	0.242	0.234	0.217	0.278
Max H-field (A/m)	0.1688	0.1936	0.1872	0.1736	0.2224
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4612	-1.4364	-1.4428	-1.4564	-1.4076
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6462	-0.6214	-0.6278	-0.6414	-0.5926

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

Charging Mode with iPhone X 50% Charge (shift 5mm to right)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.29	1.26	1.24	1.58	1.42
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.71	-612.74	-612.76	-612.42	-612.58
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.71	-305.74	-305.76	-305.42	-305.58

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.223	0.238	0.251	0.225	0.281
Max H-field (A/m)	0.1784	0.1904	0.2008	0.18	0.2248
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4516	-1.4396	-1.4292	-1.45	-1.4052
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6366	-0.6246	-0.6142	-0.635	-0.5902

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

Charging Mode with iPhone X 90% Charge (shift 5mm to right)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.36	1.19	1.29	1.43	1.62
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.64	-612.81	-612.71	-612.57	-612.38
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.64	-305.81	-305.71	-305.57	-305.38

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.239	0.281	0.247	0.269	0.293
Max H-field (A/m)	0.1912	0.2248	0.1976	0.2152	0.2344
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4388	-1.4052	-1.4324	-1.4148	-1.3956
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6238	-0.5902	-0.6174	-0.5998	-0.5806

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



Charging Mode with iPhone X 10% Charge (shift 5mm to left)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.31	1.21	1.05	1.69	1.64
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.69	-612.79	-612.95	-612.31	-612.36
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.69	-305.79	-305.95	-305.31	-305.36

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.218	0.279	0.228	0.263	0.305
Max H-field (A/m)	0.1744	0.2232	0.1824	0.2104	0.244
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4556	-1.4068	-1.4476	-1.4196	-1.386
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6406	-0.5918	-0.6326	-0.6046	-0.571

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

Charging Mode with iPhone X 50% Charge (shift 5mm to left)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	2.38	1.77	1.72	2.03	2.85
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-611.62	-612.23	-612.28	-611.97	-611.15
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-304.62	-305.23	-305.28	-304.97	-304.15

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.136	0.155	0.138	0.149	0.158
Max H-field (A/m)	0.1088	0.124	0.1104	0.1192	0.1264
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.5212	-1.506	-1.5196	-1.5108	-1.5036
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.7062	-0.691	-0.7046	-0.6958	-0.6886

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

Charging Mode with iPhone X 90% Charge (shift 5mm to left)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	2.37	1.67	2.31	3.48	2.88
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-611.63	-612.33	-611.69	-610.52	-611.12
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-304.63	-305.33	-304.69	-303.52	-304.12

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.295	0.244	0.212	0.269	0.329
Max H-field (A/m)	0.236	0.1952	0.1696	0.2152	0.2632
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.394	-1.4348	-1.4604	-1.4148	-1.3668
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.579	-0.6198	-0.6454	-0.5998	-0.5518

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

Charging Mode with iPhone X 10% Charge (shift 5mm to top)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.19	1.25	1.28	1.59	1.42
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.81	-612.75	-612.72	-612.41	-612.58
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.81	-305.75	-305.72	-305.41	-305.58

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.225	0.208	0.221	0.21	0.269
Max H-field (A/m)	0.18	0.1664	0.1768	0.168	0.2152
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.45	-1.4636	-1.4532	-1.462	-1.4148
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.635	-0.6486	-0.6382	-0.647	-0.5998

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

Charging Mode with iPhone X 50% Charge (shift 5mm to top)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.29	1.31	1.35	1.69	1.57
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.71	-612.69	-612.65	-612.31	-612.43
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.71	-305.69	-305.65	-305.31	-305.43

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.263	0.225	0.237	0.241	0.282
Max H-field (A/m)	0.2104	0.18	0.1896	0.1928	0.2256
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4196	-1.45	-1.4404	-1.4372	-1.4044
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6046	-0.635	-0.6254	-0.6222	-0.5894

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

Charging Mode with iPhone X 90% Charge (shift 5mm to top)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.34	1.42	1.39	1.79	1.63
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.66	-612.58	-612.61	-612.21	-612.37
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.66	-305.58	-305.61	-305.21	-305.37

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.271	0.236	0.284	0.261	0.291
Max H-field (A/m)	0.2168	0.1888	0.2272	0.2088	0.2328
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4132	-1.4412	-1.4028	-1.4212	-1.3972
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.5982	-0.6262	-0.5878	-0.6062	-0.5822

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

Charging Mode with iPhone X 10% Charge (shift 5mm to bottom)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.31	1.21	1.05	1.69	1.64
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.69	-612.79	-612.95	-612.31	-612.36
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.69	-305.79	-305.95	-305.31	-305.36

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.218	0.279	0.228	0.263	0.305
Max H-field (A/m)	0.1744	0.2232	0.1824	0.2104	0.244
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4556	-1.4068	-1.4476	-1.4196	-1.386
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6406	-0.5918	-0.6326	-0.6046	-0.571

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

Charging Mode with iPhone X 50% Charge (shift 5mm to bottom)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.41	1.33	1.12	1.74	1.72
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.59	-612.67	-612.88	-612.26	-612.28
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.59	-305.67	-305.88	-305.26	-305.28

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.226	0.284	0.231	0.258	0.313
Max H-field (A/m)	0.1808	0.2272	0.1848	0.2064	0.2504
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4492	-1.4028	-1.4452	-1.4236	-1.3796
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6342	-0.5878	-0.6302	-0.6086	-0.5646

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

Charging Mode with iPhone X 90% Charge (shift 5mm to bottom)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.39	1.28	1.25	1.55	1.61
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.61	-612.72	-612.75	-612.45	-612.39
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.61	-305.72	-305.75	-305.45	-305.39

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.208	0.278	0.216	0.261	0.306
Max H-field (A/m)	0.1664	0.2224	0.1728	0.2088	0.2448
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4636	-1.4076	-1.4572	-1.4212	-1.3852
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6486	-0.5926	-0.6422	-0.6062	-0.5702

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

Charging Mode with iPhone X 10% 3mm airgap Charge (at center)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.34	1.36	1.41	1.27	1.29
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.66	-612.64	-612.59	-612.73	-612.71
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.66	-305.64	-305.59	-305.73	-305.71

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.201	0.217	0.213	0.251	0.241
Max H-field (A/m)	0.1608	0.1736	0.1704	0.2008	0.1928
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4692	-1.4564	-1.4596	-1.4292	-1.4372
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6542	-0.6414	-0.6446	-0.6142	-0.6222

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

Charging Mode with iPhone X 50% 3mm airgap Charge (at center)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.41	1.39	1.47	1.62	1.38
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.59	-612.61	-612.53	-612.38	-612.62
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.59	-305.61	-305.53	-305.38	-305.62

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.223	0.242	0.236	0.261	0.251
Max H-field (A/m)	0.1784	0.1936	0.1888	0.2088	0.2008
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4516	-1.4364	-1.4412	-1.4212	-1.4292
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6366	-0.6214	-0.6262	-0.6062	-0.6142

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

Charging Mode with iPhone X 90% 3mm airgap Charge (at center)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.39	1.45	1.52	1.57	1.43
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.61	-612.55	-612.48	-612.43	-612.57
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.61	-305.55	-305.48	-305.43	-305.57

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.231	0.254	0.242	0.268	0.269
Max H-field (A/m)	0.1848	0.2032	0.1936	0.2144	0.2152
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4452	-1.4268	-1.4364	-1.4156	-1.4148
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6302	-0.6118	-0.6214	-0.6006	-0.5998

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

Charging Mode with iPhone X 10% 3mm airgap Charge (shift 5mm to right)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.22	1.29	1.34	1.28	1.21
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.78	-612.71	-612.66	-612.72	-612.79
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.78	-305.71	-305.66	-305.72	-305.79

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.172	0.189	0.186	0.239	0.241
Max H-field (A/m)	0.1376	0.1512	0.1488	0.1912	0.1928
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4924	-1.4788	-1.4812	-1.4388	-1.4372
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6774	-0.6638	-0.6662	-0.6238	-0.6222

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

Charging Mode with iPhone X 50% 3mm airgap Charge (shift 5mm to right)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.29	1.36	1.45	1.38	1.36
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.71	-612.64	-612.55	-612.62	-612.64
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.71	-305.64	-305.55	-305.62	-305.64

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.189	0.197	0.201	0.251	0.263
Max H-field (A/m)	0.1512	0.1576	0.1608	0.2008	0.2104
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4788	-1.4724	-1.4692	-1.4292	-1.4196
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6638	-0.6574	-0.6542	-0.6142	-0.6046

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

Charging Mode with iPhone X 90% 3mm airgap Charge (shift 5mm to right)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.44	1.49	1.52	1.49	1.47
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.56	-612.51	-612.48	-612.51	-612.53
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.56	-305.51	-305.48	-305.51	-305.53

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.197	0.289	0.216	0.273	0.279
Max H-field (A/m)	0.1576	0.2312	0.1728	0.2184	0.2232
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4724	-1.3988	-1.4572	-1.4116	-1.4068
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6574	-0.5838	-0.6422	-0.5966	-0.5918

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

Charging Mode with iPhone X 10% 3mm airgap Charge (shift 5mm to left)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.29	1.18	1.24	1.21	1.12
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.71	-612.82	-612.76	-612.79	-612.88
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.71	-305.82	-305.76	-305.79	-305.88

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.182	0.187	0.173	0.248	0.223
Max H-field (A/m)	0.1456	0.1496	0.1384	0.1984	0.1784
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4844	-1.4804	-1.4916	-1.4316	-1.4516
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6694	-0.6654	-0.6766	-0.6166	-0.6366

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



Charging Mode with iPhone X 50% 3mm airgap Charge (shift 5mm to left)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.35	1.26	1.34	1.28	1.29
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.65	-612.74	-612.66	-612.72	-612.71
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.65	-305.74	-305.66	-305.72	-305.71

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.205	0.197	0.188	0.252	0.237
Max H-field (A/m)	0.164	0.1576	0.1504	0.2016	0.1896
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.466	-1.4724	-1.4796	-1.4284	-1.4404
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.651	-0.6574	-0.6646	-0.6134	-0.6254

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

Charging Mode with iPhone X 90% 3mm airgap Charge (shift 5mm to left)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.39	1.32	1.41	1.32	1.37
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.61	-612.68	-612.59	-612.68	-612.63
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.61	-305.68	-305.59	-305.68	-305.63

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.219	0.206	0.196	0.268	0.247
Max H-field (A/m)	0.1752	0.1648	0.1568	0.2144	0.1976
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4548	-1.4652	-1.4732	-1.4156	-1.4324
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6398	-0.6502	-0.6582	-0.6006	-0.6174

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

Charging Mode with iPhone X 10% 3mm airgap Charge (shift 5mm to top)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.12	1.17	1.28	1.33	1.45
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.88	-612.83	-612.72	-612.67	-612.55
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.88	-305.83	-305.72	-305.67	-305.55

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.288	0.172	0.118	0.225	0.216
Max H-field (A/m)	0.2304	0.1376	0.0944	0.18	0.1728
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.3996	-1.4924	-1.5356	-1.45	-1.4572
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.5846	-0.6774	-0.7206	-0.635	-0.6422

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

Charging Mode with iPhone X 50% 3mm airgap Charge (shift 5mm to top)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.26	1.28	1.39	1.41	1.57
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.74	-612.72	-612.61	-612.59	-612.43
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.74	-305.72	-305.61	-305.59	-305.43

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.173	0.188	0.137	0.148	0.159
Max H-field (A/m)	0.1384	0.1504	0.1096	0.1184	0.1272
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4916	-1.4796	-1.5204	-1.5116	-1.5028
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6766	-0.6646	-0.7054	-0.6966	-0.6878

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

Charging Mode with iPhone X 90% 3mm airgap Charge (shift 5mm to top)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.35	1.41	1.55	1.59	1.63
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.65	-612.59	-612.45	-612.41	-612.37
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.65	-305.59	-305.45	-305.41	-305.37

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.189	0.202	0.162	0.178	0.182
Max H-field (A/m)	0.1512	0.1616	0.1296	0.1424	0.1456
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4788	-1.4684	-1.5004	-1.4876	-1.4844
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6638	-0.6534	-0.6854	-0.6726	-0.6694

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

Charging Mode with iPhone X 10% 3mm airgap Charge (shift 5mm to bottom)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.23	1.28	1.37	1.31	1.25
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.77	-612.72	-612.63	-612.69	-612.75
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.77	-305.72	-305.63	-305.69	-305.75

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.231	0.201	0.189	0.235	0.215
Max H-field (A/m)	0.1848	0.1608	0.1512	0.188	0.172
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4452	-1.4692	-1.4788	-1.442	-1.458
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6302	-0.6542	-0.6638	-0.627	-0.643

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

Charging Mode with iPhone X 50% 3mm airgap Charge (shift 5mm to bottom)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.29	1.36	1.42	1.38	1.29
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.71	-612.64	-612.58	-612.62	-612.71
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.71	-305.64	-305.58	-305.62	-305.71

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.203	0.215	0.196	0.247	0.225
Max H-field (A/m)	0.1624	0.172	0.1568	0.1976	0.18
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4676	-1.458	-1.4732	-1.4324	-1.45
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6526	-0.643	-0.6582	-0.6174	-0.635

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

Charging Mode with iPhone X 90% 3mm airgap Charge (shift 5mm to bottom)

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	1.36	1.47	1.48	1.48	1.33
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-612.64	-612.53	-612.52	-612.52	-612.67
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-305.64	-305.53	-305.52	-305.52	-305.67

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.216	0.234	0.208	0.259	0.236
Max H-field (A/m)	0.1728	0.1872	0.1664	0.2072	0.1888
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4572	-1.4428	-1.4636	-1.4228	-1.4412
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6422	-0.6278	-0.6486	-0.6078	-0.6262

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

Standby Mode

E-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max E-field (V/m)	0.23	0.51	0.24	0.28	0.31
Limit (V/m)	614	614	614	614	614
Margin (V/m)	-613.77	-613.49	-613.76	-613.72	-613.69
50 % Limit (V/m)	307	307	307	307	307
50 % Margin (V/m)	-306.77	-306.49	-306.76	-306.72	-306.69

H-Field Measurement					
Distance	15cm				20cm
EUT Side	Left	Right	Top	Bottom	Z-axis
Max H-field (uT)	0.219	0.138	0.125	0.137	0.142
Max H-field (A/m)	0.1752	0.1104	0.1	0.1096	0.1136
Limit (A/m)	1.63	1.63	1.63	1.63	1.63
Margin (A/m)	-1.4548	-1.5196	-1.53	-1.5204	-1.5164
50 % Limit (A/m)	0.815	0.815	0.815	0.815	0.815
50 % Margin (A/m)	-0.6398	-0.7046	-0.715	-0.7054	-0.7014

Measurements were made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm 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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