



TEST REPORT

Report Number. : 13573637-E2V2

Applicant : BELKIN INTERNATIONAL, INC
12045 EAST WATERFRONT DRIVE
PLAYA VISTA, CA 90094, U.S.A.

Model : WIZ009

FCC ID : K7SWIZ009

EUT Description : BOOST ↑ CHARGE™ PRO 3-in-1 Magnetic Wireless Charger

Test Standard(s) : FCC PART 1 SUBPART I
FCC PART 2 SUBPART J

Date Of Issue:

December 02, 2020

Prepared by:

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NVLAP LAB CODE 200065-0

Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
V1	11/24/2020	Initial Issue	---
V2	12/2/2020	Updated Section 4 to address TCB's question and updated setup photos report revision number	Tina Chu

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: BELKIN INTERNATIONAL, INC.
12045 EAST WATERFRONT DRIVE
PLAYA VISTA, CA 90094 U.S.A.

EUT DESCRIPTION: BOOST ↑ CHARGE™ PRO 3-in-1 Magnetic Wireless Charger

MODEL NUMBER: WIZ009

SERIAL NUMBER: DLC040200S4PP493B

DATE TESTED: NOVEMBER 04, 2020 TO NOVEMBER 18, 2020

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 1 SUBPART I & PART 2 SUBPART J	Complies

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of the U.S. government.

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2. TEST METHODOLOGY

All calculations were made in accordance with FCC OET Bulletin 65 Edition 97-01.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 and 47266 Benicia Street, and 47658 Kato Road, Fremont, California, USA. Line conducted emissions were measured at 47658 Kato Road address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

47173 Benicia Street	47266 Benicia Street	47658 Kato Rd
<input type="checkbox"/> Chamber A	<input type="checkbox"/> Chamber D	<input type="checkbox"/> Chamber I
<input type="checkbox"/> Chamber B	<input type="checkbox"/> Chamber E	<input type="checkbox"/> Chamber J
<input type="checkbox"/> Chamber C	<input type="checkbox"/> Chamber F	<input type="checkbox"/> Chamber K
	<input type="checkbox"/> Chamber G	<input type="checkbox"/> Chamber L
	<input checked="" type="checkbox"/> Chamber H	<input type="checkbox"/> Chamber M

The above test sites and facilities are covered under FCC Test Firm Registration # 208313. Chambers above are covered under Industry Canada company address and respective code: 22541.

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0

4. KDB 680106 D01 SECTION 5b EQUIPMENT APPROVAL CONSIDERATIONS

Requirement	Device
(1) Power transfer frequency is less than 1 MHz.	Yes. The operating frequencies are 360kHz, 110.5kHz-148.5kHz, and 326kHz.
(2) Output power from each primary coil is less than or equal to 15 watts.	Yes. The maximum power are 15W (360kHz), 1W(110.5kHz-148.5kHz), and 1W (326kHz).
(3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.	Yes. The system has three separated individual coil and each of them only allows for capable wireless power transfer between one source and one client at any given time.
(4) Client device is placed directly in contact with the transmitter.	Yes. The client device is placed directly in contact with the transmitter.
(5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).	Yes. It is a mobile device.
(6) 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.	<p>The worst case leakage @360kHz is 31.61% @110.5kHz to 148.5kHz is 11.5% @326kHz is 3.54%</p> <p>The total aggregate H-field strength is $(31.61+11.5+3.54)\% = 46.65\%$ of the MPE limit.</p>

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a BOOST ↑ CHARGE™ PRO 3-in-1 Magnetic Wireless Charger with 3 separated charging coils that is capable of charging 3 client devices at the same time. First coil is used for charging an iPhone at 360kHz (15W power), second coil is used to charge AirPods Charging Case at 110.5kHz – 148.5kHz (1W power), and the third coil is used for charging an Apple Watch at 326kHz (1W power). EUT is powered from AC/DC adapter.

5.2. WORST-CASE CONFIGURATION AND MODE

Worst case orientation of the client devices have been investigated, there is no significant delta when the client devices at different orientations. All testing is based on direct contact and no shifts position due to magnetic charger pad, the AirPods Charging Case is placed at the maximum power position during the testing. For the entire radiated emissions test, the EUT was investigated on the following configuration during the test at its natural orientation.

Config	Mode	Descriptions
1	Standby	EUT standalone, powered by AC/DC adapter.
2	Operating @360kHz. (~10%, 20~60%, and >75% Power Charging)	Direct contact during charging between the EUT & WPT Client (iPhone 12), and the EUT is powered by AC/DC adapter.
3	Operating @110.5kHz to 148.5kHz (~10%, 20~60%, and >75% Power Charging)	Direct contact during charging between the EUT & WPT Client (AirPods Charging Case with AirPods charging inside), and the EUT is powered by AC/DC adapter.
4	Operating @326kHz (~10%, 20~60%, and >75% Power Charging)	Direct contact during charging between the EUT & WPT Client (Apple Watch), and the EUT is powered by AC/DC adapter.
5	Operating @360kHz and 110.5kHz to 148.5kHz (~10%, 20~60%, and >75% Power Charging)	Direct contact during charging between the EUT & WPT Client (iPhone 12, AirPods Charging Case with AirPods charging inside) and the EUT is powered by AC/DC adapter.
6	Operating @360kHz and 326kHz (~10%, 20~60%, and >75% Power Charging)	Direct contact during charging between the EUT & WPT Client (iPhone 12, Apple Watch) and the EUT is powered by AC/DC adapter.
7	Operating @110.5kHz to 148.5kHz and 326kHz (~10%, 20~60%, and >75% Power Charging)	Direct contact during charging between the EUT & WPT Client (AirPods Charging Case with AirPods charging inside, Apple Watch) and the EUT is powered by AC/DC adapter.
8	Operating @360kHz, 110.5kHz to 148.5kHz and 326kHz (~10%, 20~60%, and >75% Power Charging)	Direct contact during charging between the EUT & WPT Client (iPhone 12, AirPods Charging Case with AirPods charging inside, Apple Watch) and the EUT is powered by AC/DC adapter.

5.3. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

SUPPORT TEST EQUIPMENT						
Description		Manufacturer	Model	Serial Number	FCC ID/ DoC	
AC/DC adapter		Channel Well Technology Co., Ltd.	2ACR040G NJ	N/A	DoC	
iPhone 12 Pro		Apple	A2341	DNPDF3C90D82	BCG-E3545A	
iPhone 12 Pro		Apple	A2341	DNPDKW2B0D80	BCG-E3545A	
iPhone 12		Apple	A2172	G6TDG5VJ0DXT	BCG-E3542A	
AirPods Charging Case		Apple	A2190	H35D18FMLTTK	DoC	
AirPods Charging Case		Apple	A2190	GX4ZHCSNLKKT	DoC	
AirPods Charging Case		Apple	A2190	H35CX3JULKKT	DoC	
Apple Watch		Apple	A1977	FH7XG2HZKDH2	BCG-A1977	
Apple Watch		Apple	A1554	FHLPNJQEG9J6	BCG-E2871	
Apple Watch		Apple	A2352	G99D534CQ07W	BCG-A2352	
AirPods		Apple	A2083	H36D37S0JQH3	BCG-A2083	
AirPods		Apple	A2083	H34D33VVJQH4	BCG-A2083	
AirPods		Apple	A2083	GX5ZG9HPJQH4	BCG-A2083	
AirPods		Apple	A2083	GX6ZJ845JQH3	BCG-A2083	
AirPods		Apple	A2083	H36D2EXBJQH4	BCG-A2083	
AirPods		Apple	A2083	H32D2352JQH3	BCG-A2083	
I/O CABLES (AC LINE CONDUCTED)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC	1	Barrel	Un-shielded	1.5	From AC/DC adapter ,40W Power supply

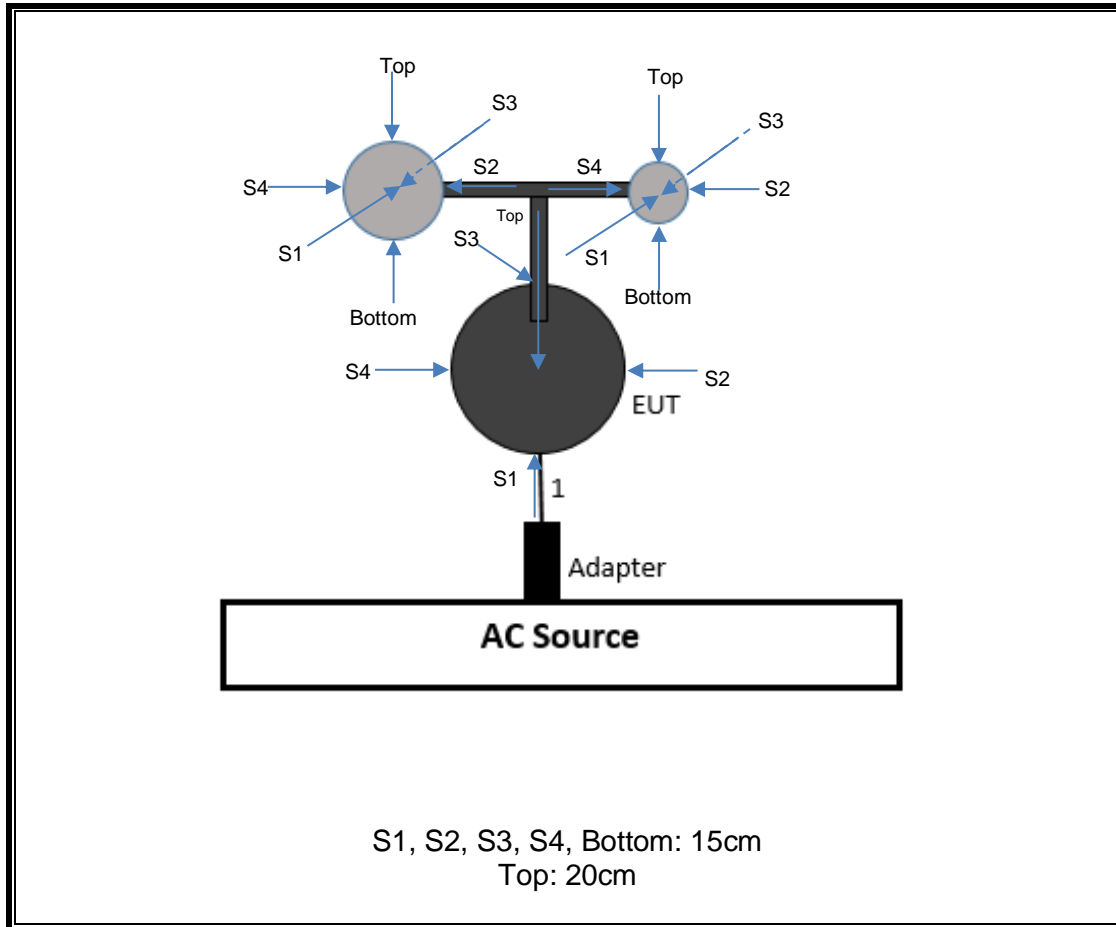
TEST SETUP

The following configurations are tested:

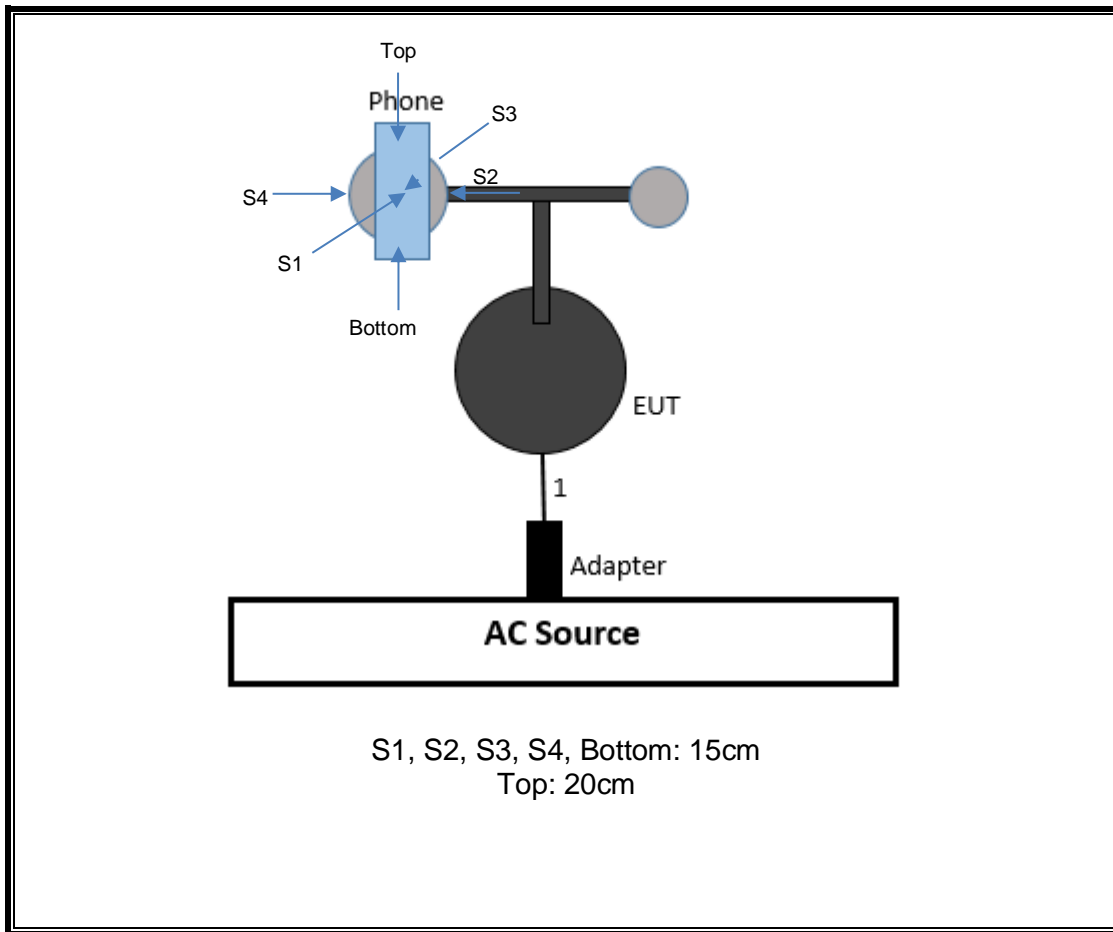
MEASUREMENT SETUP

The measurements were taken using a probe placed 15 cm surrounding the device and 20 cm above the top surface for all configurations on each individual coil per KDB 680106 D01.

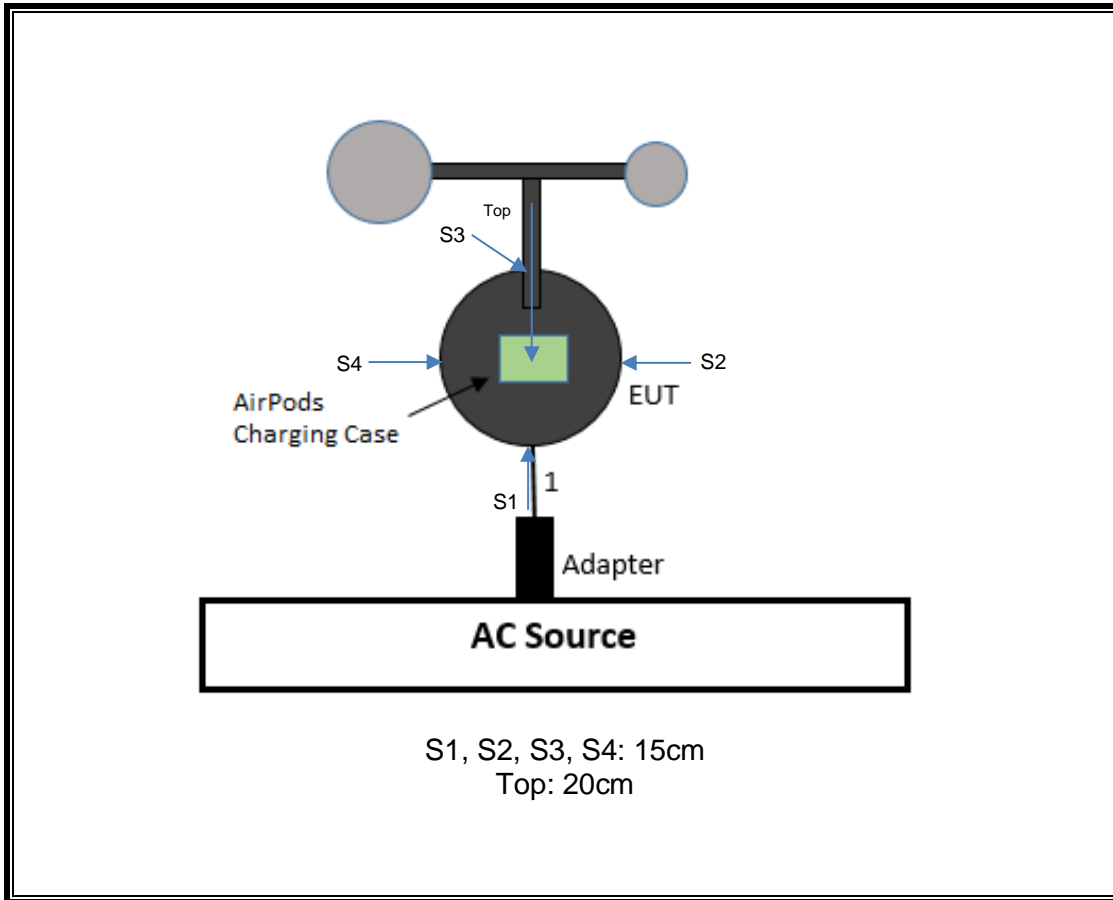
CONFIGURATION 1: Standby



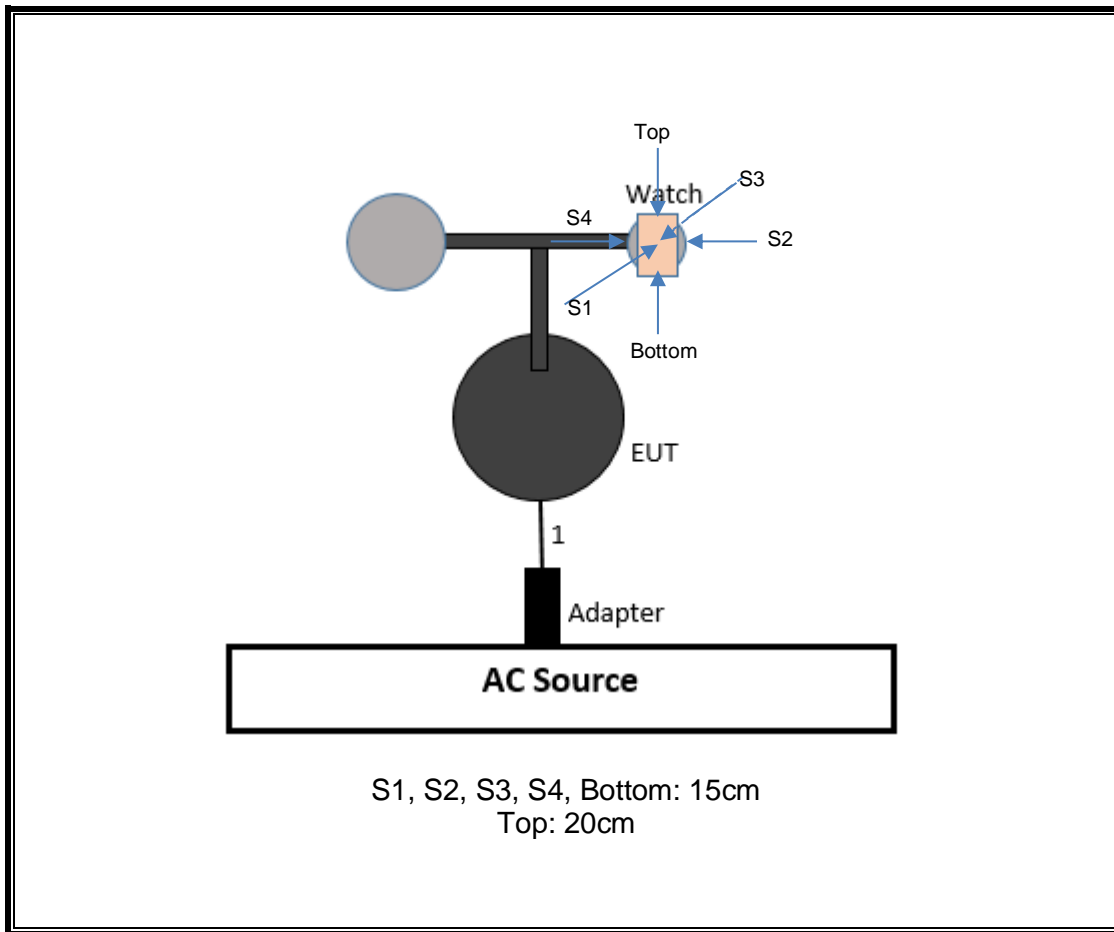
CONFIGURATION 2: iPhone



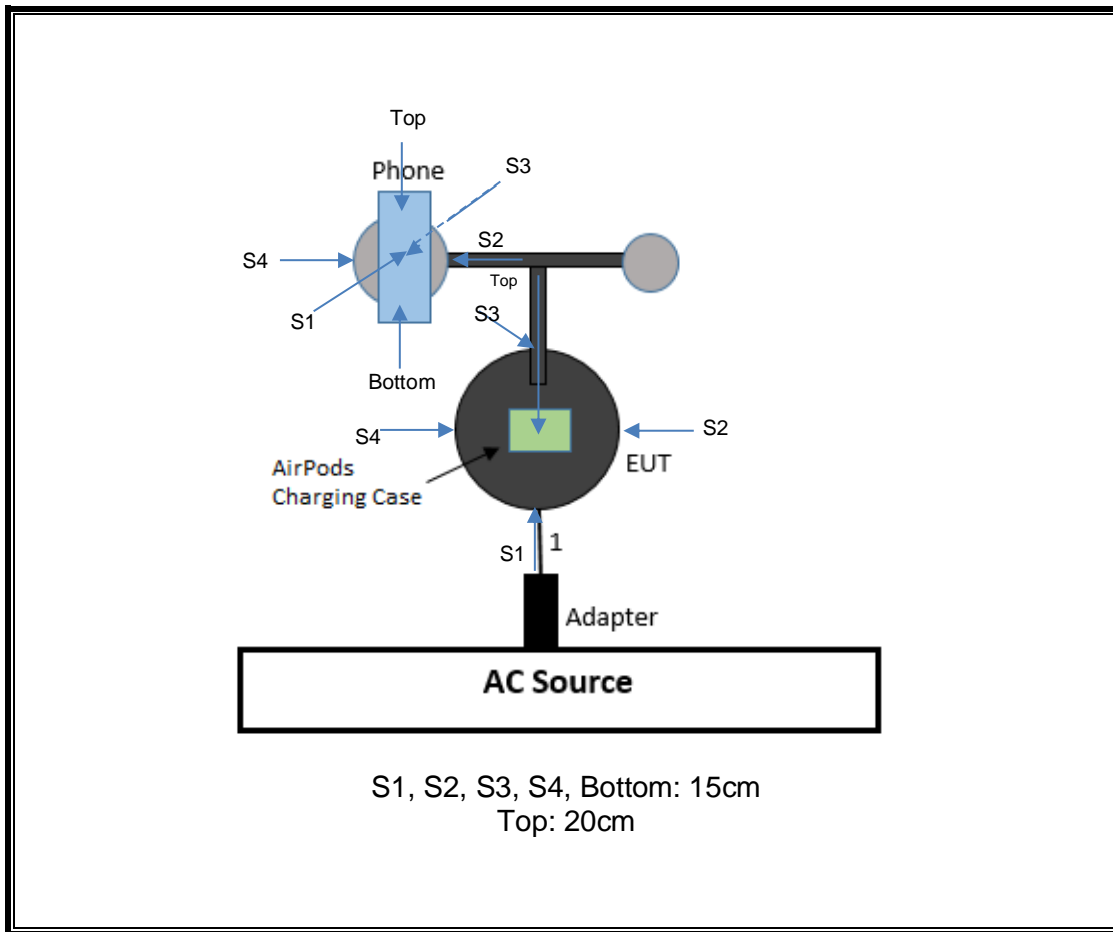
CONFIGURATION 3: AirPods Charging Case with AirPods



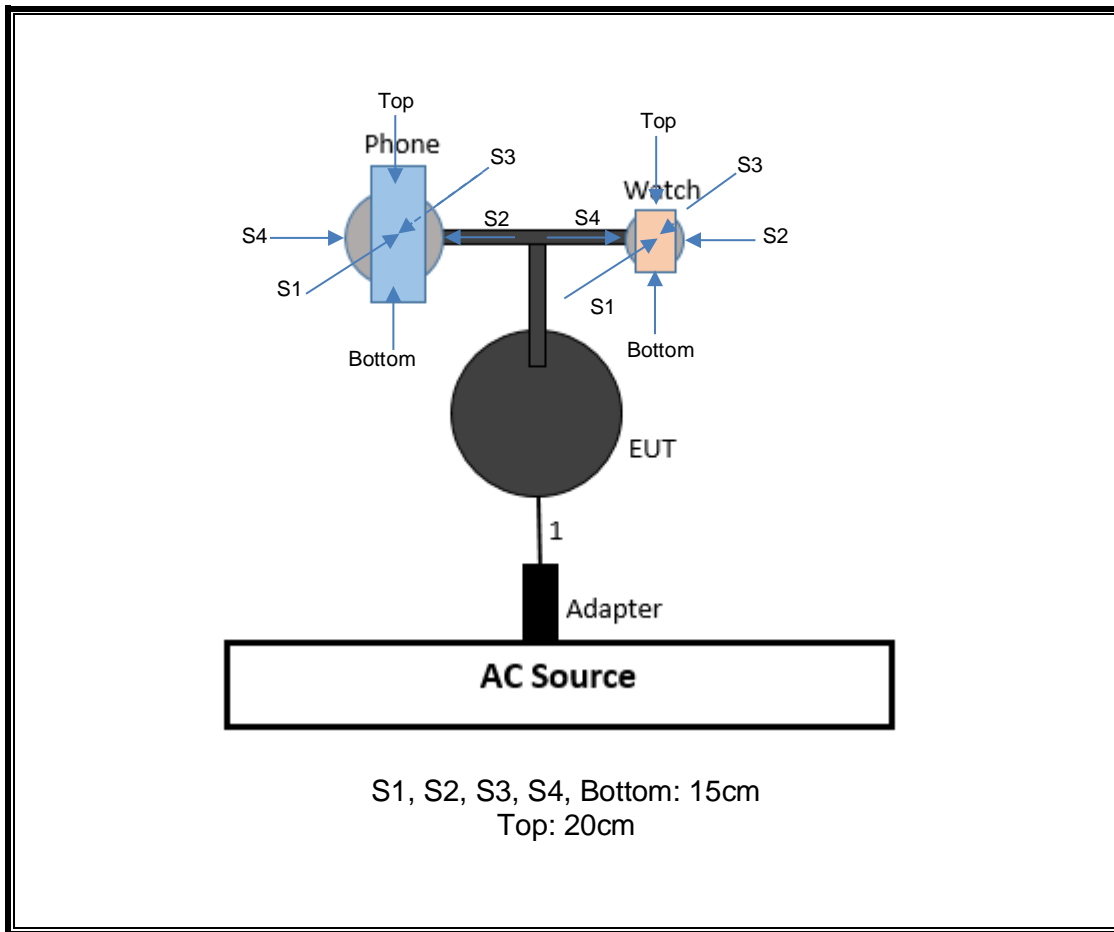
CONFIGURATION 4: Apple Watch



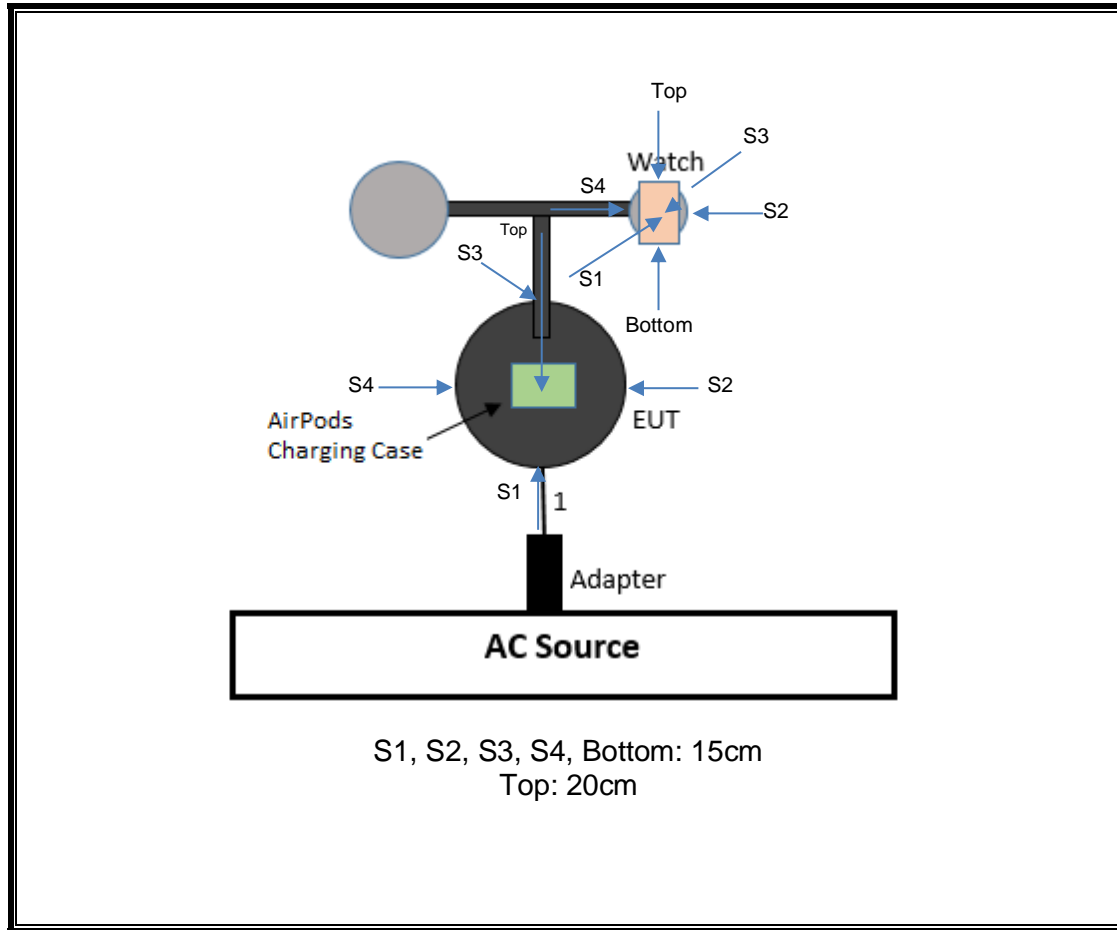
CONFIGURATION 5: iPhone + AirPods Charging Case with AirPods



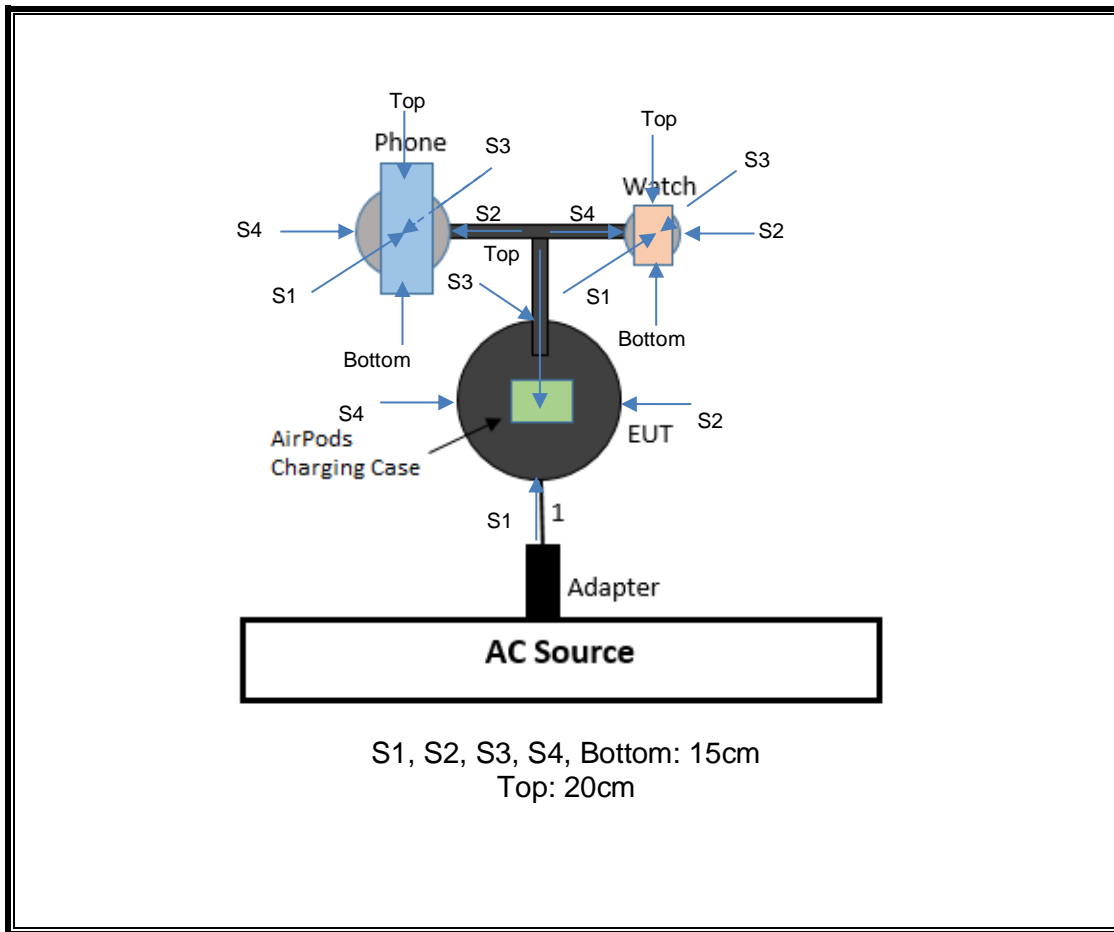
CONFIGURATION 6: iPhone + Apple Watch



CONFIGURATION 7: AirPods Charging Case with AirPods + Apple Watch



CONFIGURATION 8: iPhone + AirPods Charging Case with AirPods + Apple Watch



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was used for the tests documented in this report:

Test Equipment List						
Description	Manufacturer	Model	S/N	Label ID	Cal Due	Cal Date
Electric and Magnetic Field Probe	Narda	EHP-200A	160WX41008	T1085	12/02/2020	12/02/2019
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent (Keysight) Technologies	N9030A-544	MY52350176	T1210	01/28/2021	01/28/2020

7. DUTY CYCLE

LIMITS

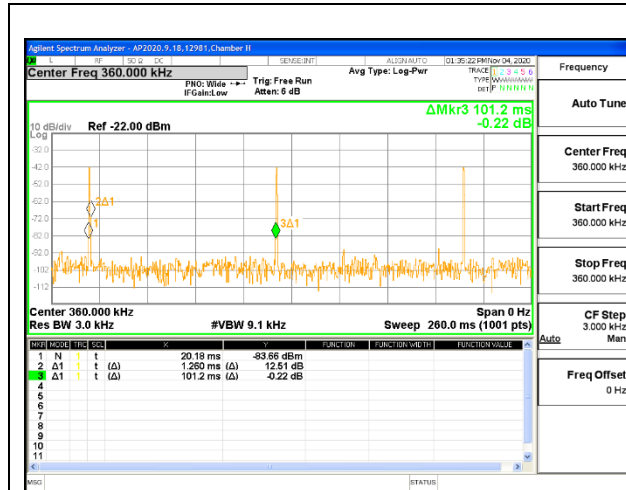
None; for reporting purposes only.

PROCEDURE

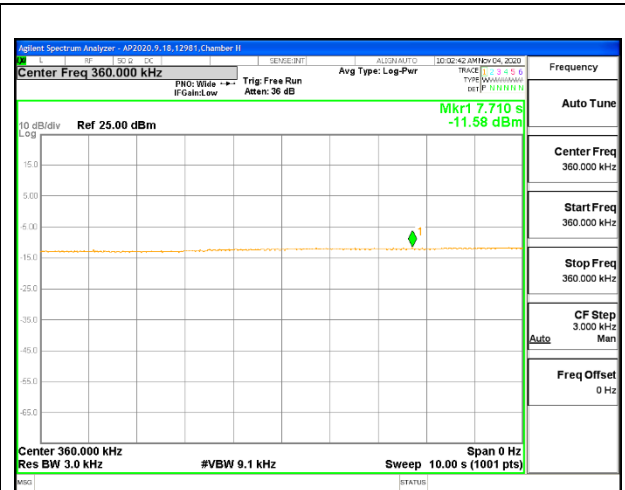
Zero-Span Spectrum Analyzer Method.

ON TIME AND DUTY CYCLE RESULTS

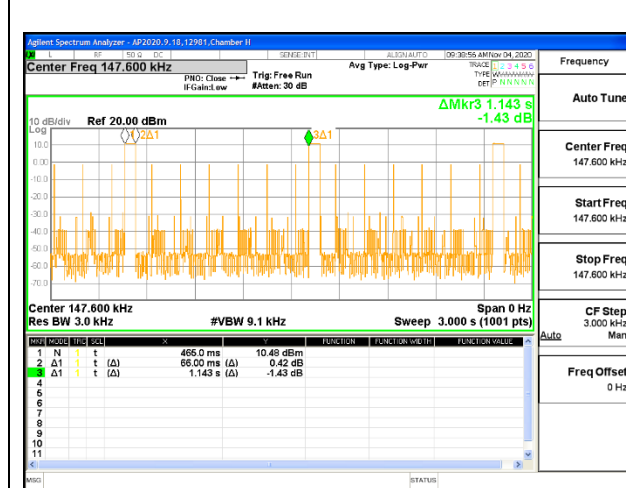
Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
Standby @ 360kHz	1.26	101.20	0.01	1.25%	19.05
Standby @ 147.6kHz	66.00	1143.00	0.06	5.77%	12.39
Standby @ 326kHz	12.00	199.80	0.06	6.01%	12.21
Operating Frequency @ 360kHz	100.00	100.00	1.00	100.00%	0.00
Operating Frequency @ 147.6kHz	100.00	100.00	1.00	100.00%	0.00
Operating Frequency @ 326kHz	100.00	100.00	1.00	100.00%	0.00



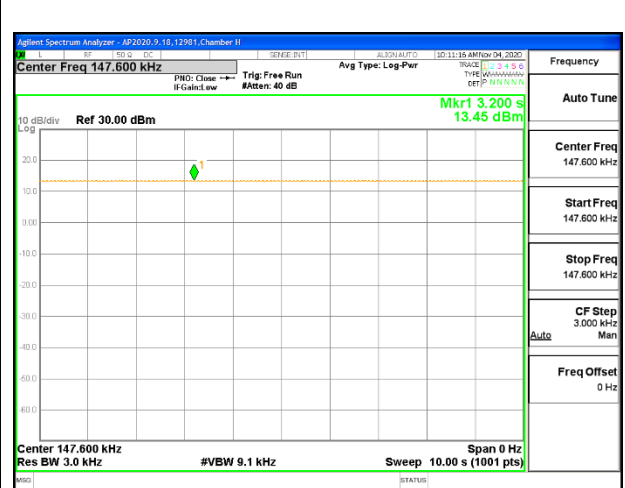
Standby @ 360kHz



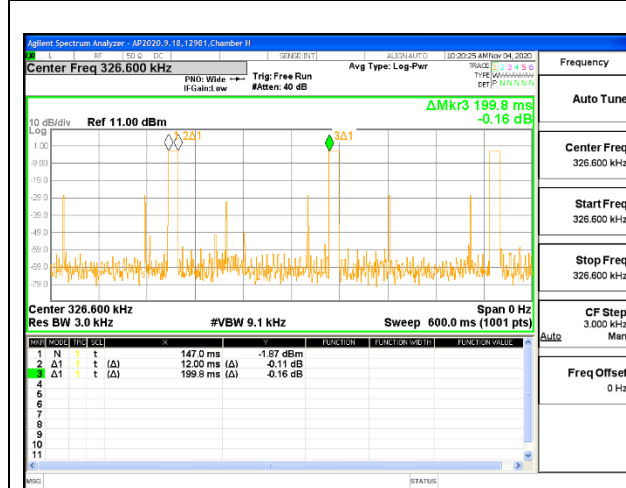
Operating @ 360kHz



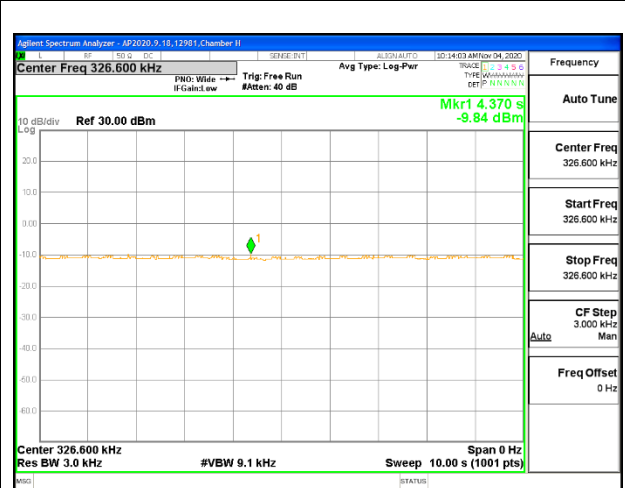
Standby @ 147.6kHz



Operating @ 147.6kHz



Standby @ 326kHz



Operating @ 326kHz

8. MAXIMUM PERMISSIBLE RF EXPOSURE

8.1. FCC LIMITS AND SUMMARY

§1.1310 The criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio-frequency (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 ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
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
300–1500 .....	.....	.....	f/300	6
1500–100,000 .....	.....	.....	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

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

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
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.

RESULT

Test Engineer:	20769 RB, 38602 TW	Test Date:	11/09/2020 to 11/18/2020
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MAXIMUM RESULT SUMMARY

CONFIGURATION 1: Standby

360kHz

Electric Field Limit			Magnetic Field Limit		
FCC RF Exposure Limit	Maximum Average (V/m)	Percentage (%)	FCC RF Exposure	Maximum Average (A/m)	Percentage (%)
614	0.026	0.00%	1.63	0.005	0.28%

110.5kHz to 148.5kHz

Electric Field Limit			Magnetic Field Limit		
FCC RF Exposure Limit	Maximum Average (V/m)	Percentage (%)	FCC RF Exposure	Maximum Average (A/m)	Percentage (%)
614	0.081	0.01%	1.63	0.080	4.91%

326kHz

Electric Field Limit			Magnetic Field Limit		
FCC RF Exposure Limit	Maximum Average (V/m)	Percentage (%)	FCC RF Exposure	Maximum Average (A/m)	Percentage (%)
614	0.058	0.01%	1.63	0.017	1.05%

CONFIGURATION 2: iPhone

360kHz

Electric Field Limit			Magnetic Field Limit		
FCC RF Exposure Limit	Maximum Average (V/m)	Percentage (%)	FCC RF Exposure	Maximum Average (A/m)	Percentage (%)
614	0.418	0.07%	1.63	0.148	9.08%

CONFIGURATION 3: AirPods Charging Case with AirPods

110.5kHz to 148.5kHz

Electric Field Limit			Magnetic Field Limit		
FCC RF Exposure Limit	Maximum Average (V/m)	Percentage (%)	FCC RF Exposure	Maximum Average (A/m)	Percentage (%)
614	0.647	0.11%	1.63	0.187	11.50%

CONFIGURATION 4: Apple Watch

326kHz

Electric Field Limit			Magnetic Field Limit		
FCC RF Exposure Limit	Maximum Average (V/m)	Percentage (%)	FCC RF Exposure	Maximum Average (A/m)	Percentage (%)
614	0.237	0.04%	1.63	0.038	2.30%

CONFIGURATION 5: iPhone + AirPods Charging Case with AirPods

360kHz

Electric Field Limit			Magnetic Field Limit		
FCC RF Exposure Limit	Maximum Average (V/m)	Percentage (%)	FCC RF Exposure	Maximum Average (A/m)	Percentage (%)
614	0.447	0.07%	1.63	0.515	31.61%

110.5kHz to 148.5kHz

Electric Field Limit			Magnetic Field Limit		
FCC RF Exposure Limit	Maximum Average (V/m)	Percentage (%)	FCC RF Exposure	Maximum Average (A/m)	Percentage (%)
614	0.911	0.15%	1.63	0.036	2.23%

CONFIGURATION 6: iPhone + Apple Watch

360kHz

Electric Field Limit			Magnetic Field Limit		
FCC RF Exposure Limit	Maximum Average (V/m)	Percentage (%)	FCC RF Exposure	Maximum Average (A/m)	Percentage (%)
614	0.718	0.12%	1.63	0.073	4.46%

326kHz

Electric Field Limit			Magnetic Field Limit		
FCC RF Exposure Limit	Maximum Average (V/m)	Percentage (%)	FCC RF Exposure	Maximum Average (A/m)	Percentage (%)
614	0.884	0.14%	1.63	0.043	2.61%

CONFIGURATION 7: AirPods Charging Case with AirPods + Apple Watch

110.5kHz to 148.5kHz

Electric Field Limit			Magnetic Field Limit		
FCC RF Exposure Limit	Maximum Average (V/m)	Percentage (%)	FCC RF Exposure	Maximum Average (A/m)	Percentage (%)
614	0.486	0.08%	1.63	0.135	8.28%

326kHz

Electric Field Limit			Magnetic Field Limit		
FCC RF Exposure Limit	Maximum Average (V/m)	Percentage (%)	FCC RF Exposure	Maximum Average (A/m)	Percentage (%)
614	0.251	0.04%	1.63	0.058	3.54%

CONFIGURATION 8: iPhone + AirPods Charging Case with AirPods + Apple Watch

360kHz

Electric Field Limit			Magnetic Field Limit		
FCC RF Exposure Limit	Maximum Average (V/m)	Percentage (%)	FCC RF Exposure	Maximum Average (A/m)	Percentage (%)
614	0.884	0.14%	1.63	0.066	4.02%

110.5kHz to 148.5kHz

Electric Field Limit			Magnetic Field Limit		
FCC RF Exposure Limit	Maximum Average (V/m)	Percentage (%)	FCC RF Exposure	Maximum Average (A/m)	Percentage (%)
614	0.994	0.16%	1.63	0.159	9.74%

326kHz

Electric Field Limit			Magnetic Field Limit		
FCC RF Exposure Limit	Maximum Average (V/m)	Percentage (%)	FCC RF Exposure	Maximum Average (A/m)	Percentage (%)
614	1.065	0.17%	1.63	0.053	3.26%

E- FIELD AND H- FIELD MEASUREMENTS

Note: Peak measurements were performed. RMS values were calculated from the peak measurement. Please refer to the formula for calculating the RMS values: [Field Strength x $\sqrt{\text{Duty Cycle}}$].

CONFIGURATION 1: Standby

FCC Limit @360kHz															
Configuration	Test Mode	Measuring Distance (cm)	Electric Field Limit (V/m)	Electric Field Reading (V/m)				Magnetic Field Limit (A/m)	Magnetic Field Reading (A/m)						
				FCC Limit	Location	Peak	Duty Cycle %		FCC Average	FCC Limit	Location	Peak	Duty Cycle %	FCC Average	
1	Standby	15 cm surrounding the device (S1 - S4) and 20 cm above the top surface of the EUT	614	S1	0.227	1.3		0.025	1.63	S1	0.036	1.25		0.004	
				S2	0.226					0.025	S2			0.042	0.005
				S3	0.235					0.026	S3			0.037	0.004
				S4	0.235					0.026	S4			0.036	0.004
				Top	0.227					0.025	Top			0.036	0.004
				Bottom	0.227					0.025	Bottom			0.036	0.004
				Max	0.235					0.026	Max			0.042	0.005
FCC Limit @110.5kHz to 148.5kHz															
Configuration	Test Mode	Measuring Distance (cm)	Electric Field Limit (V/m)	Electric Field Reading (V/m)				Magnetic Field Limit (A/m)	Magnetic Field Reading (A/m)						
				FCC Limit	Location	Peak	Duty Cycle %		FCC Average	FCC Limit	Location	Peak	Duty Cycle %	FCC Average	
1	Standby	15 cm surrounding the device (S1 - S4) and 20 cm above the top surface of the EUT	614	S1	0.269	5.8		0.065	1.63	S1	0.033	5.8		0.008	
				S2	0.258					0.062	S2			0.052	0.012
				S3	0.312					0.075	S3			0.037	0.009
				S4	0.266					0.064	S4			0.054	0.013
				Top	0.338					0.081	Top			0.332	0.080
				Bottom	0.338					0.081	Bottom			0.332	0.080
				Max	0.338					0.081	Max			0.332	0.080
FCC Limit @326kHz															
Configuration	Test Mode	Measuring Distance (cm)	Electric Field Limit (V/m)	Electric Field Reading (V/m)				Magnetic Field Limit (A/m)	Magnetic Field Reading (A/m)						
				FCC Limit	Location	Peak	Duty Cycle %		FCC Average	FCC Limit	Location	Peak	Duty Cycle %	FCC Average	
1	Standby	15 cm surrounding the device (S1 - S4) and 20 cm above the top surface of the EUT	614	S1	0.226	6.0		0.055	1.63	S1	0.070	6.0		0.017	
				S2	0.235					0.058	S2			0.039	0.009
				S3	0.235					0.058	S3			0.040	0.010
				S4	0.227					0.056	S4			0.036	0.009
				Top	0.235					0.058	Top			0.036	0.009
				Bottom	0.235					0.058	Bottom			0.036	0.009
				Max	0.235					0.058	Max			0.070	0.017

CONFIGURATION 2: iPhone

FCC Limit		@ Direct Contact		Electric Field Reading				Magnetic Field Reading					
Configuration	Test Mode	Measuring Distance (cm)	Electric Field Limit (V/m)	(V/m)				Magnetic Field Limit (A/m)	(A/m)				
				FCC	Location	Peak	Duty Cycle %		FCC Average	FCC	Location	Peak	Duty Cycle %	FCC Average
2	Operating Real Product (Power ~10% Charging)	15 cm surrounding the device (S1 - S4) and 20 cm above the top surface of the EUT	614	S1	0.410	100	0.410	1.63	S1	0.036	100	0.036	
				S2	0.373		0.373		S2	0.148		0.148	
				S3	0.246		0.246		S3	0.043		0.043	
				S4	0.237		0.237		S4	0.036		0.036	
				Top	0.244		0.244		Top	0.034		0.034	
				Bottom	0.262		0.262		Bottom	0.037		0.037	
				Max	0.410		0.410		Max	0.148		0.148	
				FCC Average	0.389		0.389		FCC Average	0.122		0.122	
	S1			0.302	100	0.302	1.63		S1	0.035	100	0.035	
	S2			0.274		0.274			S2	0.122		0.122	
	S3			0.251		0.251			S3	0.036		0.036	
	S4			0.274		0.274			S4	0.034		0.034	
	Top			0.274		0.274			Top	0.037		0.037	
	Bottom			0.352		0.352			Bottom	0.036		0.036	
	Max			0.389		0.389			Max	0.122		0.122	
	FCC Average			0.418		0.418			FCC Average	0.135		0.135	
	S1			0.245	100	0.245			1.63	S1	0.036	100	0.036
	S2			0.228		0.228				S2	0.135		0.135
	S3			0.228		0.228				S3	0.036		0.036
	S4			0.228		0.228				S4	0.037		0.037
	Top			0.282		0.282				Top	0.033		0.033
	Bottom			0.303		0.303				Bottom	0.036		0.036
	Max			0.418		0.418				Max	0.135		0.135
	FCC Average			0.418		0.418				FCC Average	0.135		0.135

CONFIGURATION 3: AirPods Charging Case with AirPods

FCC Limit		@ Direct Contact		Electric Field Reading				Magnetic Field Reading					
Configuration	Test Mode	Measuring Distance (cm)	Electric Field Limit (V/m)	(V/m)				Magnetic Field Limit (A/m)	(A/m)				
				FCC	Location	Peak	Duty Cycle %		FCC Average	FCC	Location	Peak	Duty Cycle %	FCC Average
3	Operating Real Product (Power ~10% Charging)	15 cm surrounding the device (S1 - S4) and 20 cm above the top surface of the EUT	614	S1	0.269	100	0.269	1.63	S1	0.045	100	0.045	
				S2	0.262		0.262		S2	0.035		0.035	
				S3	0.369		0.369		S3	0.053		0.053	
				S4	0.647		0.647		S4	0.044		0.044	
				Top	0.303		0.303		Top	0.159		0.159	
				Bottom	0.647		0.647		Bottom	0.159		0.159	
				Max	0.647		0.647		Max	0.159		0.159	
				FCC Average	0.262		0.262		FCC Average	0.045		0.045	
	S1			0.247	100	0.247	1.63		S1	0.036	100	0.036	
	S2			0.248		0.248			S2	0.055		0.055	
	S3			0.360		0.360			S3	0.045		0.045	
	S4			0.325		0.325			S4	0.187		0.187	
	Top			0.360		0.360			Top	0.187		0.187	
	Bottom			0.247		0.247			Bottom	0.045		0.045	
	Max			0.259		0.259			Max	0.033		0.033	
	FCC Average			0.317		0.317			FCC Average	0.053		0.053	
	S1			0.469	100	0.469			1.63	S1	0.044	100	0.044
	S2			0.381		0.381				S2	0.139		0.139
	S3			0.317		0.317				S3	0.053		0.053
	S4			0.469		0.469				S4	0.044		0.044
	Top			0.381		0.381				Top	0.139		0.139
	Bottom			0.469		0.469				Bottom	0.139		0.139
	Max			0.469		0.469				Max	0.139		0.139
	FCC Average			0.469		0.469				FCC Average	0.139		0.139

CONFIGURATION 4: Apple Watch

FCC Limit @ Direct Contact														
Configuration	Test Mode	Measuring Distance (cm)	Electric Field Limit (V/m)	Electric Field Reading (V/m)				Magnetic Field Limit (A/m)	Magnetic Field Reading (A/m)					
				FCC	Location	Peak	Duty Cycle %		FCC Average	FCC	Location	Peak	Duty Cycle %	FCC Average
4	Operating Real Product (Power ~10% Charging)	15 cm surrounding the device (S1 - S4) and 20 cm above the top surface of the EUT	614	S1	0.227	100		0.227	1.63	S1	0.036	100		0.036
				S2	0.235			0.235		S2	0.036			0.036
				S3	0.226			0.226		S3	0.037			0.037
				S4	0.218			0.218		S4	0.036			0.036
				Top	0.218			0.218		Top	0.036			0.036
				Bottom	0.235			0.235		Bottom	0.038			0.038
				Max	0.235			0.235		Max	0.038			0.038
				S1	0.227			0.227		S1	0.036			0.036
	S2			0.227	0.227	S2	0.036	0.036						
	S3			0.235	0.235	S3	0.037	0.037						
	S4			0.226	0.226	S4	0.036	0.036						
	Top			0.226	0.226	Top	0.036	0.036						
	Bottom			0.218	0.218	Bottom	0.036	0.036						
	Max			0.235	0.235	Max	0.037	0.037						
	S1			0.236	0.236	S1	0.037	0.037						
	S2			0.226	0.226	S2	0.036	0.036						
	S3			0.218	0.218	S3	0.035	0.035						
	S4			0.227	0.227	S4	0.036	0.036						
	Top			0.226	0.226	Top	0.036	0.036						
	Bottom			0.237	0.237	Bottom	0.036	0.036						
	Max			0.237	0.237	Max	0.037	0.037						

CONFIGURATION 5: iPhone + AirPods Charging Case with AirPods

FCC Limit @ Direct Contact iPhone 360kHz														
Configuration	Test Mode	Measuring Distance (cm)	Electric Field Limit (V/m)	Electric Field Reading (V/m)				Magnetic Field Limit (A/m)	Magnetic Field Reading (A/m)					
				FCC	Location	Peak	Duty Cycle %		FCC Average	FCC	Location	Peak	Duty Cycle %	FCC Average
5	Operating Real Product (Power ~10% Charging)	15 cm surrounding the device (S1 - S4) and 20 cm above the top surface of the EUT	614	S1	0.447	100	0.447	1.63	S1	0.036	100	0.036		
				S2	0.409				S2	0.282				
				S3	0.415				S3	0.039				
				S4	0.277				S4	0.037				
				Top	0.333				Top	0.337				
				Bottom	0.312				Bottom	0.036				
				Max	0.447				Max	0.337				
				S1	0.434				S1	0.041				
				S2	0.412				S2	0.506				
	S3			0.337	S3	0.034								
	S4			0.384	S4	0.037								
	Top			0.269	Top	0.035								
	Bottom			0.256	Bottom	0.036								
	Max			0.434	Max	0.506								
	S1			0.425	S1	0.040								
	S2			0.294	S2	0.515								
	S3			0.303	S3	0.036								
	S4			0.398	S4	0.033								
	Top			0.277	Top	0.036								
	Bottom			0.419	Bottom	0.037								
	Max			0.425	Max	0.515								

FCC Limit @ Direct Contact 110.5kHz to 148.5kHz AirPods Case														
Configuration	Test Mode	Measuring Distance (cm)	Electric Field Limit (V/m)	Electric Field Reading (V/m)				Magnetic Field Limit (A/m)	Magnetic Field Reading (A/m)					
				FCC	Location	Peak	Duty Cycle %		FCC Average	FCC	Location	Peak	Duty Cycle %	FCC Average
5	Operating Real Product (Power ~10% Charging)	15 cm surrounding the device (S1 - S4) and 20 cm above the top surface of the EUT	614	S1	0.371	100	0.371	1.63	S1	0.035	100	0.035		
				S2	0.334				S2	0.036				
				S3	0.500				S3	0.036				
				S4	0.506				S4	0.036				
				Top	0.841				Top	0.036				
				Bottom	0.841				Bottom	0.036				
				Max	0.841				Max	0.036				
				S1	0.411				S1	0.036				
				S2	0.343				S2	0.034				
	S3			0.540	S3	0.036								
	S4			0.572	S4	0.035								
	Top			0.911	Top	0.036								
	Bottom			0.911	Bottom	0.036								
	Max			0.911	Max	0.036								
	S1			0.391	S1	0.036								
	S2			0.316	S2	0.035								
	S3			0.533	S3	0.036								
	S4			0.597	S4	0.035								
	Top			0.817	Top	0.036								
	Bottom			0.817	Bottom	0.036								
	Max			0.817	Max	0.036								

CONFIGURATION 6: iPhone + Apple Watch

FCC Limit @ Direct Contact iPhone 360kHz															
Configuration	Test Mode	Measuring Distance (cm)	Electric Field Limit (V/m)	Electric Field Reading (V/m)				Magnetic Field Limit (A/m)	Magnetic Field Reading (A/m)						
				FCC	Location	Peak	Duty Cycle %		FCC Average	FCC	Location	Peak	Duty Cycle %	FCC Average	
6	Operating Real Product (Power ~10% Charging)	15 cm surrounding the device (S1 - S4) and 20 cm above the top surface of the EUT	614	S1	0.718	100	0.718	1.63	S1	0.037	100	0.037			
				S2	0.300		0.300		S2	0.073		0.073			
				S3	0.438		0.438		S3	0.036		0.036			
				S4	0.408		0.408		S4	0.036		0.036			
				Top	0.266		0.266		Top	0.034		0.034			
				Bottom	0.352		0.352		Bottom	0.035		0.035			
				Max	0.718		0.718		Max	0.073		0.073			
				S1	0.489		100		0.489	1.63		S1	0.033	100	0.033
				S2	0.350				0.350			S2	0.040		0.040
	S3	0.397	0.397	S3	0.034	0.034									
	S4	0.332	0.332	S4	0.036	0.036									
	Top	0.357	0.357	Top	0.034	0.034									
	Bottom	0.352	0.352	Bottom	0.036	0.036									
	Max	0.489	0.489	Max	0.040	0.040									
	S1	0.343	100	0.343	1.63	S1		0.034	100		0.034				
	S2	0.398		0.398		S2		0.034			0.034				
	S3	0.378		0.378		S3	0.037	0.037							
	S4	0.328		0.328		S4	0.036	0.036							
	Top	0.313		0.313		Top	0.033	0.033							
	Bottom	0.365		0.365		Bottom	0.035	0.035							
	Max	0.398		0.398		Max	0.037	0.037							

FCC Limit @ Direct Contact Apple Watch 326kHz															
Configuration	Test Mode	Measuring Distance (cm)	Electric Field Limit (V/m)	Electric Field Reading (V/m)				Magnetic Field Limit (A/m)	Magnetic Field Reading (A/m)						
				FCC	Location	Peak	Duty Cycle %		FCC Average	FCC	Location	Peak	Duty Cycle %	FCC Average	
6	Operating Real Product (Power ~10% Charging)	15 cm surrounding the device (S1 - S4) and 20 cm above the top surface of the EUT	614	S1	0.385	100	0.385	1.63	S1	0.036	100	0.036			
				S2	0.227		0.227		S2	0.036		0.036			
				S3	0.266		0.266		S3	0.035		0.035			
				S4	0.804		0.804		S4	0.039		0.039			
				Top	0.274		0.274		Top	0.033		0.033			
				Bottom	0.343		0.343		Bottom	0.036		0.036			
				Max	0.804		0.804		Max	0.039		0.039			
				S1	0.388		100		0.388	1.63		S1	0.035	100	0.035
				S2	0.235				0.235			S2	0.037		0.037
	S3	0.274	0.274	S3	0.036	0.036									
	S4	0.884	0.884	S4	0.043	0.043									
	Top	0.274	0.274	Top	0.036	0.036									
	Bottom	0.354	0.354	Bottom	0.037	0.037									
	Max	0.884	0.884	Max	0.043	0.043									
	S1	0.393	100	0.393	1.63	S1		0.034	100		0.034				
	S2	0.235		0.235		S2		0.036			0.036				
	S3	0.282		0.282		S3	0.036	0.036							
	S4	0.777		0.777		S4	0.043	0.043							
	Top	0.293		0.293		Top	0.034	0.034							
	Bottom	0.349		0.349		Bottom	0.036	0.036							
	Max	0.777		0.777		Max	0.043	0.043							

CONFIGURATION 7: AirPods Charging Case with AirPods + Apple Watch

FCC Limit @ Direct Contact 110.5kHz to 148.5kHz AirPods Case														
Configuration	Test Mode	Measuring Distance (cm)	Electric Field Limit (V/m)	Electric Field Reading (V/m)				Magnetic Field Limit (A/m)	Magnetic Field Reading (A/m)					
				FCC	Location	Peak	Duty Cycle %		FCC Average	FCC	Location	Peak	Duty Cycle %	FCC Average
				7	Operating Real Product (Power ~10% Charging)	15 cm surrounding the device (S1 - S4) and 20 cm above the top surface of the EUT	614		S1	0.345	100	0.345	1.63	S1	0.079	100	0.079
S2	0.486	0.486	S2					0.135	0.135					
S3	0.360	0.360	S3					0.037	0.037					
S4	0.258	0.258	S4					0.041	0.041					
Top	0.353	0.353	Top					0.135	0.135					
Max	0.486	0.486	Max					0.135	0.135					
Operating Real Product (Power 20% ~ 60% Charging)	S1	0.251	100		0.251		1.63	S1	0.110	100	0.110			
	S2	0.256			0.256			S2	0.038		0.038			
	S3	0.396			0.396			S3	0.035		0.035			
	S4	0.269			0.269			S4	0.042		0.042			
	Top	0.391			0.391			Top	0.124		0.124			
	Max	0.396			0.396			Max	0.124		0.124			
Operating Real Product (Power >75% Charging)	S1	0.269	100		0.269	1.63	S1	0.083	100	0.083				
	S2	0.259			0.259		S2	0.035		0.035				
	S3	0.463			0.463		S3	0.035		0.035				
	S4	0.266			0.266		S4	0.050		0.050				
	Top	0.383			0.383		Top	0.135		0.135				
	Max	0.463			0.463		Max	0.135		0.135				

FCC Limit @ Direct Contact Apple Watch 326kHz														
Configuration	Test Mode	Measuring Distance (cm)	Electric Field Limit (V/m)	Electric Field Reading (V/m)				Magnetic Field Limit (A/m)	Magnetic Field Reading (A/m)					
				FCC	Location	Peak	Duty Cycle %		FCC Average	FCC	Location	Peak	Duty Cycle %	FCC Average
				7	Operating Real Product (Power ~10% Charging)	15 cm surrounding the device (S1 - S4) and 20 cm above the top surface of the EUT	614		S1	0.235	100	0.235	1.63	S1	0.034	100	0.034
S2	0.245	0.245	S2					0.036	0.036					
S3	0.227	0.227	S3					0.037	0.037					
S4	0.227	0.227	S4					0.056	0.056					
Top	0.227	0.227	Top					0.034	0.034					
Max	0.245	0.245	Max					0.056	0.056					
Operating Real Product (Power 20% ~ 60% Charging)	S1	0.228	100		0.228		1.63	S1	0.036	100	0.036			
	S2	0.226			0.226			S2	0.036		0.036			
	S3	0.227			0.227			S3	0.036		0.036			
	S4	0.068			0.068			S4	0.048		0.048			
	Top	0.226			0.226			Top	0.036		0.036			
	Bottom	0.227			0.227			Bottom	0.033		0.033			
Operating Real Product (Power >75% Charging)	S1	0.228	100		0.228	1.63	S1	0.048	100	0.048				
	S2	0.251			0.251		S2	0.036		0.036				
	S3	0.235			0.235		S3	0.034		0.034				
	S4	0.227			0.227		S4	0.058		0.058				
	Top	0.235			0.235		Top	0.034		0.034				
	Bottom	0.227			0.227		Bottom	0.034		0.034				

CONFIGURATION 8: iPhone + AirPods Charging Case with AirPods + Apple Watch

FCC Limit @ Direct Contact iPhone 360kHz												
Configuration	Test Mode	Measuring Distance (cm)	Electric Field Limit (V/m)	Electric Field Reading (V/m)				Magnetic Field Limit (A/m)	Magnetic Field Reading (A/m)			
				FCC	Location	Peak	Duty Cycle %		FCC Average	FCC	Location	Peak	Duty Cycle %	FCC Average
8	Operating Real Product (Power ~10% Charging)	15 cm surrounding the device (S1 - S4) and 20 cm above the top surface of the EUT	614	S1	0.884	100	0.884	1.63	S1	0.036	100	0.036
				S2	0.307				S2	0.066		
				S3	0.556				S3	0.036		
				S4	0.476				S4	0.038		
				Top	0.266				Top	0.036		
				Bottom	0.253				Bottom	0.036		
				Max	0.884				Max	0.066		
				Max	0.884				Max	0.066		
	Operating Real Product (Power 20% ~ 60% Charging)			S1	0.422	100	0.422		S1	0.036	100	0.036
				S2	0.282				S2	0.045		
				S3	0.425				S3	0.036		
				S4	0.332				S4	0.036		
				Top	0.235				Top	0.036		
				Bottom	0.318				Bottom	0.034		
				Max	0.425				Max	0.045		
				Max	0.425				Max	0.045		
	Operating Real Product (Power >75% Charging)			S1	0.352	100	0.352		S1	0.036	100	0.036
				S2	0.315				S2	0.039		
				S3	0.332				S3	0.039		
				S4	0.520				S4	0.037		
				Top	0.236				Top	0.036		
				Bottom	0.262				Bottom	0.036		
				Max	0.520				Max	0.039		
				Max	0.520				Max	0.039		

FCC Limit @ Direct Contact 110.5kHz to 148.5kHz AirPods Case												
Configuration	Test Mode	Measuring Distance (cm)	Electric Field Limit (V/m)	Electric Field Reading (V/m)				Magnetic Field Limit (A/m)	Magnetic Field Reading (A/m)			
				FCC	Location	Peak	Duty Cycle %		FCC Average	FCC	Location	Peak	Duty Cycle %	FCC Average
8	Operating Real Product (Power ~10% Charging)	15 cm surrounding the device (S1 - S4) and 20 cm above the top surface of the EUT	614	S1	0.301	100	0.301	1.63	S1	0.036	100	0.036
				S2	0.266				S2	0.046		
				S3	0.343				S3	0.093		
				S4	0.338				S4	0.071		
				Top	0.971				Top	0.154		
				Bottom	0.971				Bottom	0.154		
				Max	0.971				Max	0.154		
				Max	0.971				Max	0.154		
	Operating Real Product (Power 20% ~ 60% Charging)			S1	0.307	100	0.307		S1	0.035	100	0.035
				S2	0.279				S2	0.044		
				S3	0.334				S3	0.070		
				S4	0.371				S4	0.047		
				Top	0.985				Top	0.152		
				Bottom	0.985				Bottom	0.152		
				Max	0.985				Max	0.152		
				Max	0.985				Max	0.152		
	Operating Real Product (Power >75% Charging)			S1	0.307	100	0.307		S1	0.035	100	0.035
				S2	0.294				S2	0.047		
				S3	0.383				S3	0.069		
				S4	0.358				S4	0.049		
				Top	0.994				Top	0.159		
				Bottom	0.994				Bottom	0.159		
				Max	0.994				Max	0.159		
				Max	0.994				Max	0.159		

FCC Limit @ Direct Contact Apple Watch 326kHz												
Configuration	Test Mode	Measuring Distance (cm)	Electric Field Limit (V/m)	Electric Field Reading (V/m)				Magnetic Field Limit (A/m)	Magnetic Field Reading (A/m)			
				FCC	Location	Peak	Duty Cycle %		FCC Average	FCC	Location	Peak	Duty Cycle %	FCC Average
8	Operating Real Product (Power ~10% Charging)	15 cm surrounding the device (S1 - S4) and 20 cm above the top surface of the EUT	614	S1	0.516	100	0.516	1.63	S1	0.036	100	0.036
				S2	0.226				S2	0.036		
				S3	0.292				S3	0.036		
				S4	1.031				S4	0.053		
				Top	0.245				Top	0.034		
				Bottom	0.422				Bottom	0.036		
				Max	1.031				Max	0.053		
				Max	1.031				Max	0.053		
	Operating Real Product (Power 20% ~ 60% Charging)			S1	0.451	100	0.451		S1	0.034	100	0.034
				S2	0.235				S2	0.034		
				S3	0.292				S3	0.036		
				S4	1.042				S4	0.053		
				Top	0.237				Top	0.036		
				Bottom	0.422				Bottom	0.036		
				Max	1.042				Max	0.053		
				Max	1.042				Max	0.053		
	Operating Real Product (Power >75% Charging)			S1	0.478	100	0.478		S1	0.036	100	0.036
				S2	0.227				S2	0.033		
				S3	0.342				S3	0.037		
				S4	1.065				S4	0.052		
				Top	0.258				Top	0.036		
				Bottom	0.422				Bottom	0.036		
				Max	1.065				Max	0.052		
				Max	1.065				Max	0.052		

9. SETUP PHOTO

Please see setup photo report 13573637-EP1V2

END OF TEST REPORT