



**FCC Part 1 Subpart I
FCC Part 2 Subpart J**

CERTIFICATION TEST REPORT

FOR

MAGNETIC CHARGER

MODEL NO: A2876

FCC ID: BCGA2876

REPORT NUMBER: 14253666-E2V3

ISSUE DATE: AUGUST 06, 2022

Prepared for
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Revision History

Rev.	Issue Date	Revisions	Revised By
V1	7/28/2022	Initial Issue	Chin Pang
V2	8/4/2022	Updated and placed signatures on Page 4	Alejandro Martinez
V3	8/06/2022	Updated block diagram on page 9 & 10	Chin Pang

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: APPLE INC.
1 APPLE PARK WAY
CUPERTINO, CA 95014, U.S.A

EUT DESCRIPTION: MAGNETIC CHARGER

MODEL: A2876

BRAND: APPLE

SERIAL NUMBER: DLCHP04E206K

SAMPLE RECEIPT DATE JULY 22, 2022



DATE TESTED: JULY 23-26, 2022

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

UL LLC. 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 LLC. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC. 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 A2LA, NIST, any agency of the Federal Government, or any agency of the U.S. government.

Reviewed By:		Prepared By:
		
Chin Pang Senior Lab Engineer UL LLC.		Tom Chen Test Engineer UL LLC.

2. TEST METHODOLOGY

All measurements made in accordance with KDB 680106.

3. FACILITIES AND ACCREDITATION

UL LLC is accredited by A2LA, certification #0751.05, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration
<input type="checkbox"/>	Building 1: 47173 Benicia Street, Fremont, CA 94538	US0104	2324A	550739
<input checked="" type="checkbox"/>	Building 2: 47266 Benicia Street, Fremont, CA 94538	US0104	22541	550739
<input type="checkbox"/>	Building 4: 47658 Kato Rd, Fremont, CA 94538	US0104	2324B	550739

4. DECISION RULES AND MEASUREMENT UNCERTAINTY

4.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

4.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	U _{Lab}
Magnetic Field Reading (A/m)	+/-0.04284 (A/m)
Electric Field Reading (V/m)	+/-0.03682 (V/m)

Uncertainty figures are valid to a confidence level of 95.45%.

5. KDB 680106 D01 SECTION 5b EQUIPMENT APPROVAL CONSIDERATIONS

Requirement	Device
(1) Power transfer frequency is less than 1 MHz.	No. Operating Frequency are 326.5 kHz and 1.778MHz
(2) Output power from each primary coil is less than or equal to 15 watts.	Yes. The maximum power is 5 Watts
(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 includes one single primary and secondary coil and the device is designed to charge a single client
(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.	The worst case leakage @1.778MHz is 3.62% @326.5kHz is 3.07%

6. EQUIPMENT UNDER TEST

6.1. DESCRIPTION OF EUT

The EUT is a magnetic charger which has a single inductive charging coil to charge Apple Watch. The charging frequencies are 1.778MHz and 326.5 kHz, and the maximum power consumption is 5W in charging status.

6.2. WORST-CASE CONFIGURATION AND MODE

The EUT is a dual frequency magnetic charger attached to an metal base for display purpose. For the entire radiated emissions test, the EUT was investigated on the following configuration.

Config	Mode	Descriptions
1	Standby @ 326.5KHz	Standby-EUT Alone powered by AC/DC Adapter
2,3 &4	Operating @1.778MHz. (~10%, 20~60%, and >90% of Watch battery status)	Full test on direct contact during charging between the EUT & Watch #1, #2 & #3 , and the EUT is powered by AC/DC Adapter
5 & 6	Operating @326.5KHz. (~10%, 20~60%, and >90% of Watch battery status)	Full test on direct contact during charging between the EUT & Watch #4 & #5 , and the EUT is powered by AC/DC Adapter

6.3. DESCRIPTION OF TEST SETUP**SUPPORT EQUIPMENT**

SUPPORT EQUIPMENT & PERIPHERALS LIST				
Description	Manufacturer	Model	Serial Number	Notes
Watch #1	Apple	A2622	N73KY02M96	New Watch, 1.778MHz
Watch #2	Apple	A2771	Q1WC6YF97T	New Watch, 1.778MHz
Watch #3	Apple	A2771	LK27GL7140	New Watch, 1.778MHz
Watch #4	Apple	A2723	C9T7597F69	Legacy Watch, 326.5KHz
Watch #5	Apple	A2727	JG6GRVW93	Legacy Watch, 326.5KHz

I/O CABLES

The EUT with lightning to USB-C cable powered by AC/DC Adapter.

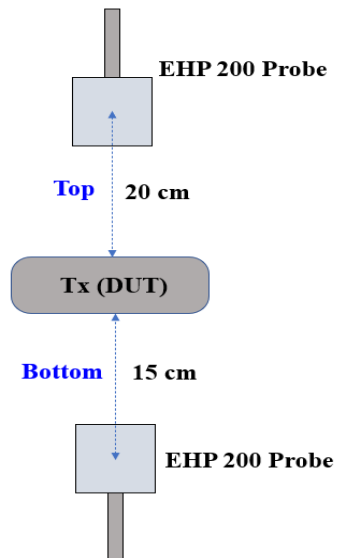
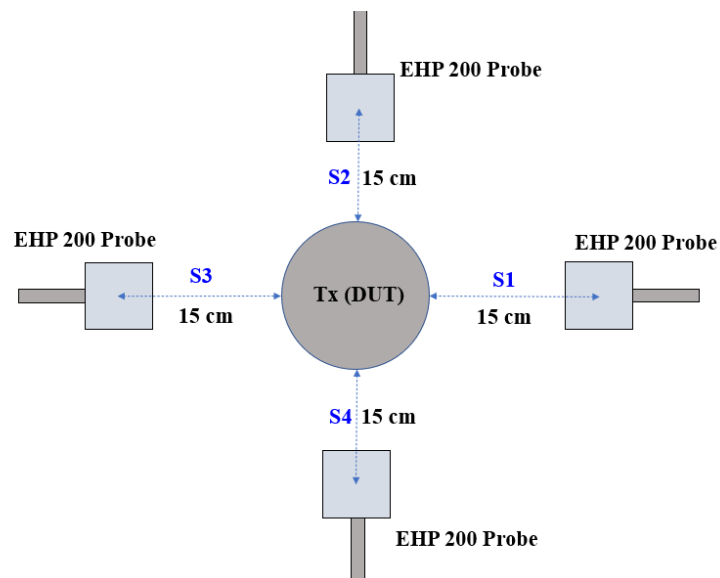
TEST SETUP

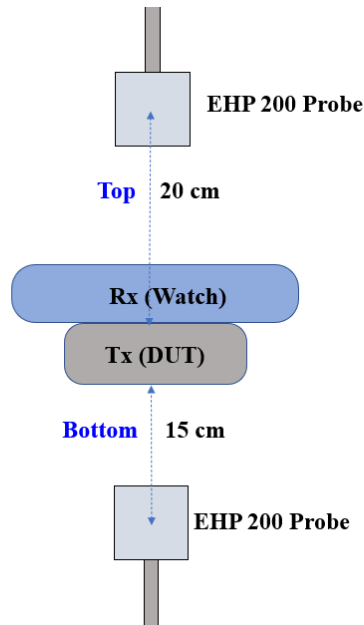
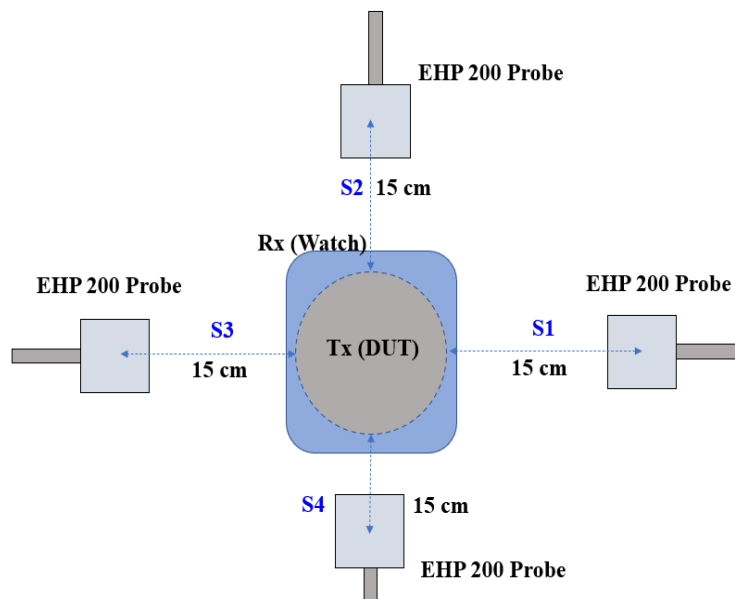
The following configurations are tested:

Configuration	Mode	Descriptions
1 (Standby)	EUT standalone	EUT Powered by AC/DC Adapter
2, 3 & 4 (Operating-Full Test)	(~10% of Watch battery status)	EUT Powered by AC/DC adapter & Wireless Charging to Watch #1,2 & 3 at 1.778MHz
	(20%~60% of Watch battery status)	
	(>90% of Watch battery status)	
5 & 6 (Operating-Full Test)	(~10% of Watch battery status)	EUT Powered by AC/DC adapter & Wireless Charging to Watch #4 & 5 at 326.5KHz
	(20%~60% of Watch battery status)	
	(>90% of Watch battery status)	

MEASUREMENT SETUP

Measurements were taken from the top and all sides of the EUT per KDB680106 D01 v03.

CONFIGURATION 1: Standby**Top View****Side View**

CONFIGURATION 2, 3, 4, 5 & 6: EUT WITH NEW AND LEGACY WATCH**Top View****Side View**

7. 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	PRE0191851	02/17/2023	02/17/2022
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent (Keysight) Technologies	N9030A	MY55410147	125179	02/01/2023	02/01/2022

8. DUTY CYCLE

LIMITS

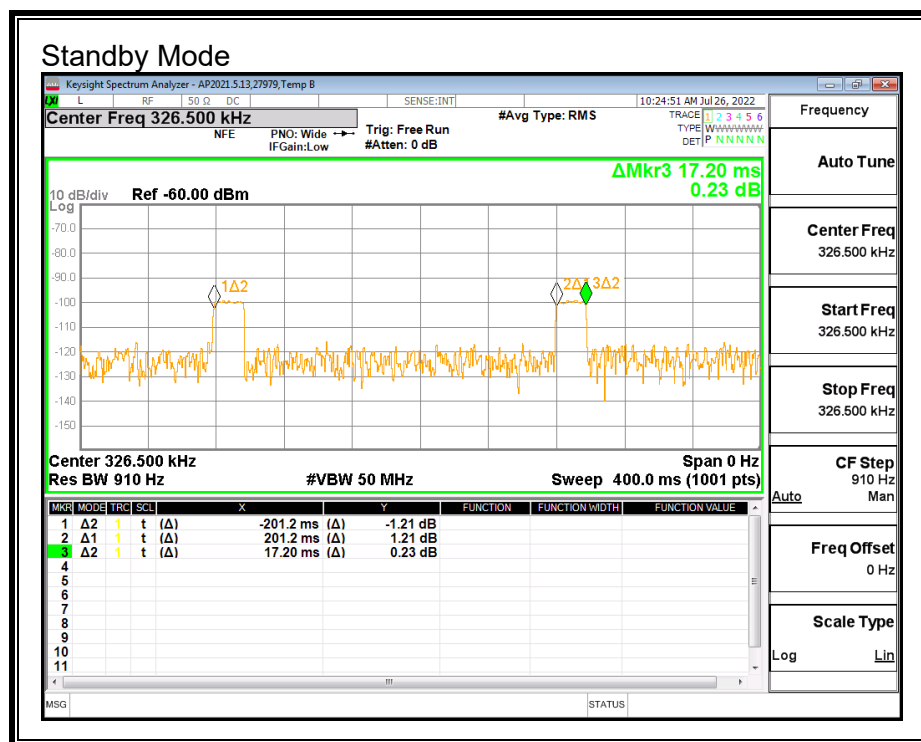
None; for reporting purposes only.

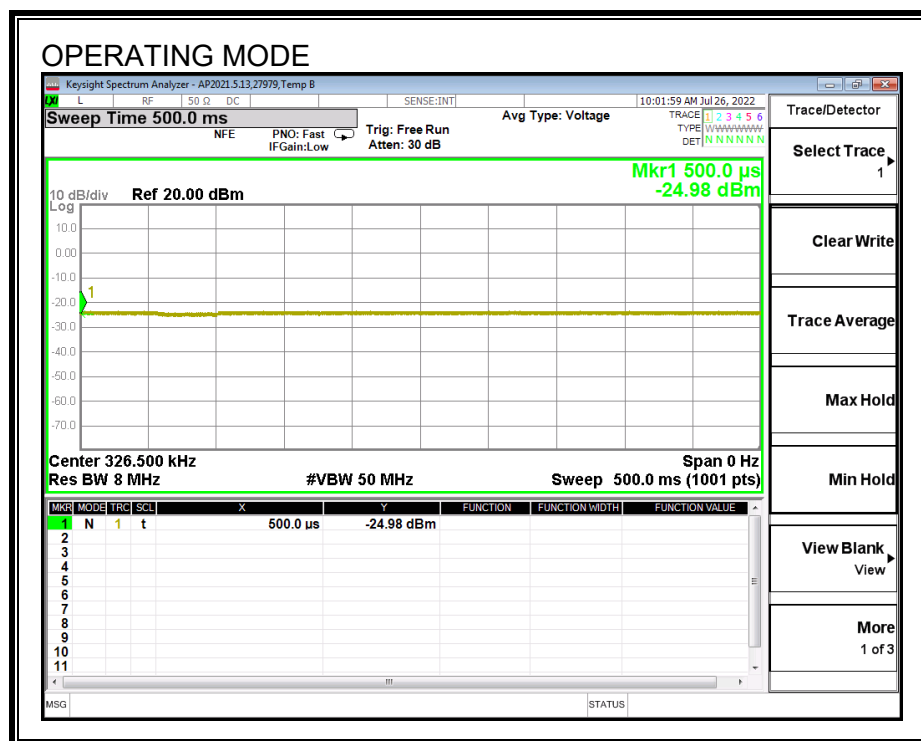
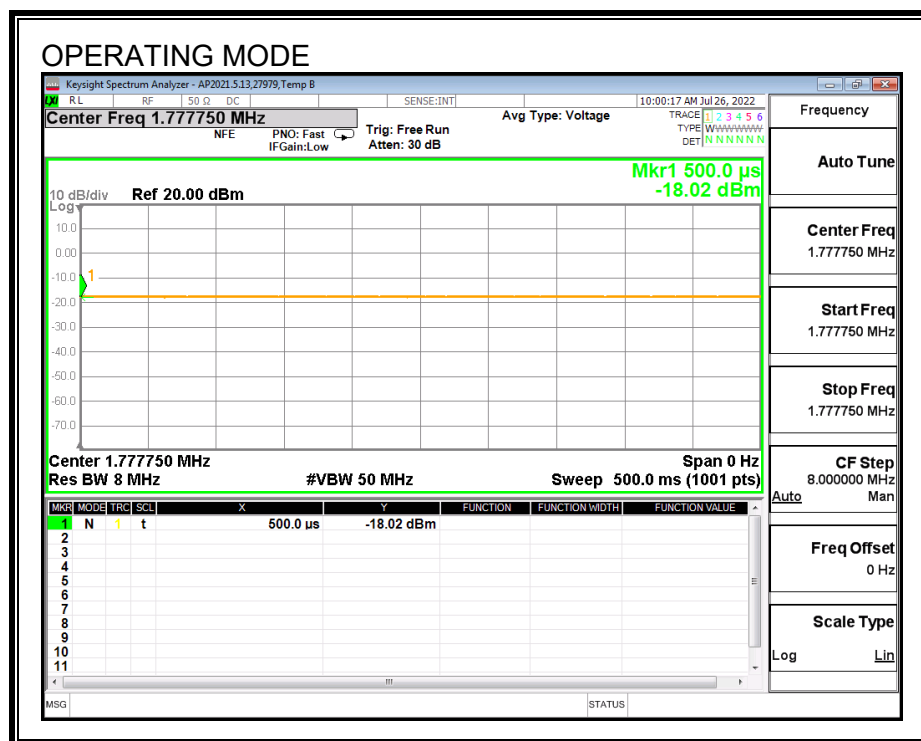
PROCEDURE

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 (Config 1)	17.20	201.20	0.09	8.55%	10.68
Operating, 326.5KHz	500.00	500.00	1.00	100.00%	0.00
Operating, 1.778MHz	500.00	500.00	1.00	100.00%	0.00



326.5KHz**1.78MHz**

9. MAXIMUM PERMISSIBLE RF EXPOSURE

9.1. 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.

9.1.1. FCC RF Exposure Summary of Results

ID	29435	Date:	07/23-26 /2022
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FCC RF Exposure Summary of Results**Configuration #1: STANDBY MODE**

Electric Field Limit			Magnetic Field Limit		
FCC RF Exposure Limit	Maximum Average (V/m)	Percentage (%)	FCC RF Exposure	Maximum Average (A/m)	Percentage (%)
614	0.075	0.01%	1.63	0.011	0.67%

Configuration #2 EUT WITH NEW WATCH #1

Electric Field Limit			Magnetic Field Limit		
FCC RF Exposure Limit	Maximum Average (V/m)	Percentage (%)	FCC RF Exposure	Maximum Average (A/m)	Percentage (%)
614	0.247	0.04%	1.63	0.043	2.64%

Configuration #3: EUT WITH NEW WATCH #2

Electric Field Limit			Magnetic Field Limit		
FCC RF Exposure Limit	Maximum Average (V/m)	Percentage (%)	FCC RF Exposure	Maximum Average (A/m)	Percentage (%)
614	0.417	0.07%	1.63	0.059	3.62%

Configuration #4 EUT WITH NEW WATCH #3

Electric Field Limit			Magnetic Field Limit		
FCC RF Exposure Limit	Maximum Average (V/m)	Percentage (%)	FCC RF Exposure	Maximum Average (A/m)	Percentage (%)
614	0.427	0.07%	1.63	0.057	3.50%

Configuration #5: EUT WITH LEGACY WATCH #4

Electric Field Limit			Magnetic Field Limit		
FCC RF Exposure Limit	Maximum Average (V/m)	Percentage (%)	FCC RF Exposure	Maximum Average (A/m)	Percentage (%)
614	0.388	0.06%	1.63	0.050	3.07%

Configuration #6: EUT WITH LEGACY WATCH #5

Electric Field Limit			Magnetic Field Limit		
FCC RF Exposure Limit	Maximum Average (V/m)	Percentage (%)	FCC RF Exposure	Maximum Average (A/m)	Percentage (%)
614	0.405	0.07%	1.63	0.046	2.82%

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 MODE

FCC Limit												
Configuration	Test Mode	Measuring Distance (cm)	Electric Field Limit	Electric Field Reading				Magnetic Field Limit	Magnetic Field Reading			
			(V/m)	(V/m)				(A/m)	(A/m)			
			FCC	Location	Peak	Duty Cycle %	FCC Average	FCC	Location	Peak	Duty Cycle %	FCC Average
1	Standby	15 cm surrounding the device (S1 - S4,Bottom) and 20 cm above the top surface of the EUT	614	S1	0.172	8.55	0.050	1.63	S1	0.033	8.55	0.010
				S2	0.256		0.075		S2	0.033		0.010
				S3	0.181		0.053		S3	0.033		0.010
				S4	0.210		0.061		S4	0.033		0.010
				Bottom	0.247		0.072		Bottom	0.033		0.010
				Top	0.210		0.061		Top	0.039		0.011
				Max	0.256		0.075		Max	0.039		0.011

Configuration #2: EUT With New Watch #1 @ 1.778MHz

FCC Limit												
Configuration	Test Mode	Measuring Distance (cm)	Electric Field Limit	Electric Field Reading				Magnetic Field Limit	Magnetic Field Reading			
			(V/m)	(V/m)				(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,Bottom) and 20 cm above the top surface of the EUT	614	S1	0.201	100	0.201	1.63	S1	0.043	100	0.043
				S2	0.181		0.181		S2	0.033		0.033
				S3	0.210		0.210		S3	0.043		0.043
				S4	0.247		0.247		S4	0.024		0.024
				Bottom	0.191		0.191		Bottom	0.043		0.043
				Top	0.218		0.218		Top	0.033		0.033
				Max	0.247		0.247		Max	0.043		0.043
				S1	0.218		100		0.218	S1		0.024
	S2		0.218	0.218	S2	0.023		0.023				
	S3		0.209	0.209	S3	0.036		0.036				
	S4		0.210	0.210	S4	0.013		0.013				
	Bottom		0.210	0.210	Bottom	0.023		0.023				
	Top		0.218	0.218	Top	0.033		0.033				
	Max		0.218	0.218	Max	0.036		0.036				
	S1		0.218	100	0.218	S1		0.024	100	0.024		
	S2		0.209		0.209	S2	0.023	0.023				
	S3		0.218		0.218	S3	0.035	0.035				
	S4		0.209		0.209	S4	0.033	0.033				
	Bottom		0.181		0.181	Bottom	0.023	0.023				
	Top		0.191		0.191	Top	0.033	0.033				
	Max		0.218		0.218	Max	0.035	0.035				

Configuration #3: EUT With New Watch #2 @ 1.778MHz

FCC Limit													
Configuration	Test Mode	Measuring Distance (cm)	Electric Field Limit	Electric Field Reading				Magnetic Field Limit	Magnetic Field Reading				
			(V/m)	(V/m)				(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,Bottom) and 20 cm above the top surface of the EUT	614	S1	0.398	100	0.398	1.63	S1	0.054	100	0.054	
				S2	0.407		0.407		S2	0.054		0.054	
				S3	0.398		0.398		S3	0.054		0.054	
				S4	0.389		0.389		S4	0.054		0.054	
				Bottom	0.398		0.398		Bottom	0.054		0.054	
				Top	0.417		0.417		Top	0.059		0.059	
				Max	0.417		0.417		Max	0.059		0.059	
	Operating Real Product (Power ~ 20% - 60% Charging)			S1	0.398	100	0.398		S1	0.056	100	0.056	
				S2	0.407		0.407		S2	0.056		0.056	
				S3	0.408		0.408		S3	0.054		0.054	
				S4	0.398		0.398		S4	0.056		0.056	
				Bottom	0.398		0.398		Bottom	0.054		0.054	
				Top	0.398		0.398		Top	0.054		0.054	
				Max	0.408		0.408		Max	0.056		0.056	
	Operating Real Product (Power >90% Charging)			S1	0.398	100	0.398		S1	0.054	100	0.054	
				S2	0.398		0.398		S2	0.053		0.053	
				S3	0.398		0.398		S3	0.054		0.054	
				S4	0.398		0.398		S4	0.056		0.056	
				Bottom	0.398		0.398		Bottom	0.054		0.054	
				Top	0.408		0.408		Top	0.054		0.054	
				Max	0.408		0.408		Max	0.056		0.056	

Configuration #4: EUT With New Watch #3 @ 1.778MHz

FCC Limit													
Configuration	Test Mode	Measuring Distance (cm)	Electric Field Limit	Electric Field Reading				Magnetic Field Limit	Magnetic Field Reading				
			(V/m)	(V/m)				(A/m)	(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,Bottom) and 20 cm above the top surface of the EUT	614	S1	0.389	100	0.389	1.63	S1	0.054	100	0.054	
				S2	0.389		0.389		S2	0.054		0.054	
				S3	0.381		0.381		S3	0.054		0.054	
				S4	0.398		0.398		S4	0.057		0.057	
				Bottom	0.407		0.407		Bottom	0.056		0.056	
				Top	0.427		0.427		Top	0.054		0.054	
				Max	0.427		0.427		Max	0.057		0.057	
	Operating Real Product (Power ~ 20% - 60% Charging)			S1	0.380	100	0.380		S1	0.054	100	0.054	
				S2	0.388		0.388		S2	0.054		0.054	
				S3	0.398		0.398		S3	0.056		0.056	
				S4	0.398		0.398		S4	0.054		0.054	
				Bottom	0.398		0.398		Bottom	0.056		0.056	
				Top	0.393		0.393		Top	0.054		0.054	
				Max	0.398		0.398		Max	0.056		0.056	
	Operating Real Product (Power >90% Charging)			S1	0.398	100	0.398		S1	0.056	100	0.056	
				S2	0.388		0.388		S2	0.056		0.056	
				S3	0.407		0.407		S3	0.054		0.054	
				S4	0.408		0.408		S4	0.054		0.054	
				Bottom	0.380		0.380		Bottom	0.056		0.056	
				Top	0.408		0.408		Top	0.054		0.054	
				Max	0.408		0.408		Max	0.056		0.056	

Configuration #5: EUT With Legacy Watch #4 @ 326.5KHz

FCC Limit												
Configuration	Test Mode	Measuring Distance (cm)	Electric Field Limit	Electric Field Reading				Magnetic Field Limit	Magnetic Field Reading			
			(V/m)	(V/m)				(A/m)	(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,Bottom) and 20 cm above the top surface of the EUT	614	S1	0.353	100	0.353	1.63	S1	0.044	100	0.044
				S2	0.326		0.326		S2	0.042		0.042
				S3	0.336		0.336		S3	0.042		0.042
				S4	0.335		0.335		S4	0.044		0.044
				Bottom	0.355		0.355		Bottom	0.044		0.044
				Top	0.327		0.327		Top	0.038		0.038
				Max	0.355		0.355		Max	0.044		0.044
	Operating Real Product (Power ~ 20% - 60% Charging)			S1	0.337	100	0.337		S1	0.050	100	0.050
				S2	0.371		0.371		S2	0.042		0.042
				S3	0.317		0.317		S3	0.047		0.047
				S4	0.388		0.388		S4	0.044		0.044
				Bottom	0.364		0.364		Bottom	0.042		0.042
				Top	0.362		0.362		Top	0.045		0.045
				Max	0.388		0.388		Max	0.050		0.050
	Operating Real Product (Power >90% Charging)			S1	0.383	100	0.383		S1	0.042	100	0.042
				S2	0.326		0.326		S2	0.047		0.047
				S3	0.317		0.317		S3	0.042		0.042
				S4	0.335		0.335		S4	0.044		0.044
				Bottom	0.317		0.317		Bottom	0.040		0.040
				Top	0.357		0.357		Top	0.044		0.044
				Max	0.383		0.383		Max	0.047		0.047

Configuration #6: EUT With Legacy Watch #5 @ 326.5KHz

FCC Limit												
Configuration	Test Mode	Measuring Distance (cm)	Electric Field Limit	Electric Field Reading				Magnetic Field Limit	Magnetic Field Reading			
			(V/m)	(V/m)				(A/m)	(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,Bottom) and 20 cm above the top surface of the EUT	614	S1	0.262	100	0.262	1.63	S1	0.004	100	0.004
				S2	0.218		0.218		S2	0.005		0.005
				S3	0.235		0.235		S3	0.004		0.004
				S4	0.228		0.228		S4	0.005		0.005
				Bottom	0.247		0.247		Bottom	0.004		0.004
				Top	0.228		0.228		Top	0.004		0.004
				Max	0.262		0.262		Max	0.005		0.005
	Operating Real Product (Power ~ 20% - 60% Charging)			S1	0.355	100	0.355		S1	0.042	100	0.042
				S2	0.405		0.405		S2	0.040		0.040
				S3	0.335		0.335		S3	0.046		0.046
				S4	0.362		0.362		S4	0.043		0.043
				Bottom	0.251		0.251		Bottom	0.004		0.004
				Top	0.247		0.247		Top	0.005		0.005
				Max	0.405		0.405		Max	0.046		0.046
	Operating Real Product (Power >90% Charging)			S1	0.228	100	0.228		S1	0.029	100	0.029
				S2	0.235		0.235		S2	0.031		0.031
				S3	0.228		0.228		S3	0.025		0.025
				S4	0.218		0.218		S4	0.027		0.027
				Bottom	0.228		0.228		Bottom	0.027		0.027
				Top	0.209		0.209		Top	0.031		0.031
				Max	0.235		0.235		Max	0.031		0.031

10. SETUP PHOTO

Please see setup photo report 14253666-EP1V1

END OF REPORT