



FCC Part 1 Subpart I  
FCC Part 2 Subpart J

**CERTIFICATION TEST REPORT**

**FOR**

**SMART PHONE**

**MODEL NO: A2176 (Full Test)**  
**A2398 (Spot Check Worst Case)**  
**A2399/A2400/A2401 (Spot Check Worst Case)**

**FCC ID: BCG-E3539A (Full Test)**  
**BCG-E3540A (Spot Check Worst Case)**  
**BCG-E3541A (Spot Check Worst Case)**

**REPORT NUMBER: 13179110-E16V1**

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Revision History

Rev.	Issue Date	Revisions	Revised By
V1	09/11/2020	Initial Issue	T. Chan

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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:** SMARTPHONE

**MODEL:** A2176 (Full Test)  
A2398 (Spot Check Worst Case)  
A2399, A2400, A2401 (Spot Check Worst Case)

**SERIAL NUMBER:** C7CCV03TQ918 (A2176)  
C7CCV00AQ920 (A2398)  
C7CCV005Q920 (A2399)

**DATE TESTED:** August 17 – 19, 2020

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

UL Verification Services Inc. measured the RF Exposure of the above equipment in accordance with the requirements set forth in the above standards, using test results reported in the test report documents referenced below and/or documentation furnished by the applicant. All indications of Pass/Fail in this report are opinions expressed by UL Verification Services Inc. based on interpretations of these calculations. The results show that the equipment is capable of demonstrating compliance with the requirements as documented in this report.

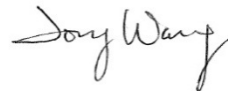
**Note:** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. 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 any government.

Reviewed By:



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Staff Engineer  
UL Verification Service Inc.

Prepared By:



Tony Wang  
Test Engineer  
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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, Fremont, California, USA. Line conducted emissions are measured only at the 47173 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 (IC:2324B-1)	<input type="checkbox"/> Chamber D (IC:22541-1)	<input type="checkbox"/> Chamber I (IC: 2324A-5)
<input type="checkbox"/> Chamber B (IC:2324B-2)	<input type="checkbox"/> Chamber E (IC:22541-2)	<input type="checkbox"/> Chamber J (IC: 2324A-6)
<input type="checkbox"/> Chamber C (IC:2324B-3)	<input type="checkbox"/> Chamber F (IC:22541-3)	<input type="checkbox"/> Chamber K (IC: 2324A-1)
<input checked="" type="checkbox"/> Temperature B Room	<input type="checkbox"/> Chamber G (IC:22541-4)	<input type="checkbox"/> Chamber L (IC: 2324A-3)
	<input type="checkbox"/> Chamber H (IC:22541-5)	

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

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. Operating Frequency is 360 kHz
(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).	No. It is a portable 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.	No. The measurement is based on KDB inquiry which 0mm distance is set for all positions testing.

## 5. EQUIPMENT UNDER TEST

### 5.1. DESCRIPTION OF EUT

The Apple iPhone is a smartphone with multimedia functions (music, application support, and video), cellular GSM, GPRS, EGPRS, UMTS, LTE, 5G, CDMA, IEEE 802.11a/b/g/n/ac/ax, Bluetooth, Ultra-Wideband, GPS, NFC and WPT. All models support at least one UICC based SIM. The second SIM is either an UICC based p-SIM (physical SIM) or e-SIM (electronic SIM). The device supports a built-in inductive charging transmitter and receiver. The rechargeable battery is not user accessible.

### 5.2. INTRODUCTION

According to the manufacturer, FCC ID: BCG-E3539A, FCC ID: BCG-E3540A, and FCC ID: BCG-E3541A RF radios are electrically identical, they all have the same PCB layout, design, common components, antennas, antenna locations and housing cases. The major difference between the parent/reference model and the variant models is the depopulation in the variant models of the mmWave transmitter. All other circuitry and features are identical. The FCC ID: BCG-E3539A test data shall remain representative of FCC ID: BCG-E3540A and FCC ID: BCG-E3541A. The variant models were spot check on worst case mode only.

### 5.3. WORST-CASE CONFIGURATION AND MODE

The EUT is a smartphone which connected to the AC/DC adapter via USB-C cable, and the inductive charging coil to charge WPT Client. For the entire radiated emissions test, the EUT was investigated on the following configuration during the test at its natural orientation.

Model A2176 (Full Test):

Config	Mode	Descriptions
1	Operating	Direct contact charging between the EUT & WPT Client, and the EUT is powered by AC/DC adapter via USB-C cable.
2	Operating	2mm airgap charging between the EUT & WPT Client + 2mm offset shift to Top or Bottom, and the EUT is powered by AC/DC adapter via USB-C cable.
3	Operating	3mm airgap charging between the EUT & WPT Client + 3mm offset shift to Top or Bottom, and the EUT is powered by AC/DC adapter via USB-C cable.

Model A2398 (Spot Check Worst Case):

Config	Mode	Descriptions
2	Operating	2mm Airgap charging between the EUT & WPT Client + 2mm offset shift to Top @ 25 ~ 60% power charging, and EUT powered by AC/DC adapter via USB-C cable.

Model A2399 (Spot Check Worst Case):

Config	Mode	Descriptions
2	Operating	2mm Airgap charging between the EUT & WPT Client + 2mm offset shift to Top @ 25 ~ 60% power charging, and EUT powered by AC/DC adapter via USB-C cable.



## 5.4. DESCRIPTION OF TEST SETUP

### SUPPORT EQUIPMENT

SUPPORT EQUIPMENT & PERIPHERALS LIST			
Description	Manufacturer	Model	Serial Number
WPT Client	N/A	N/A	N/A
AC/DC Adapter	Apple	A1385	N/A

### I/O CABLES

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

### TEST SETUP

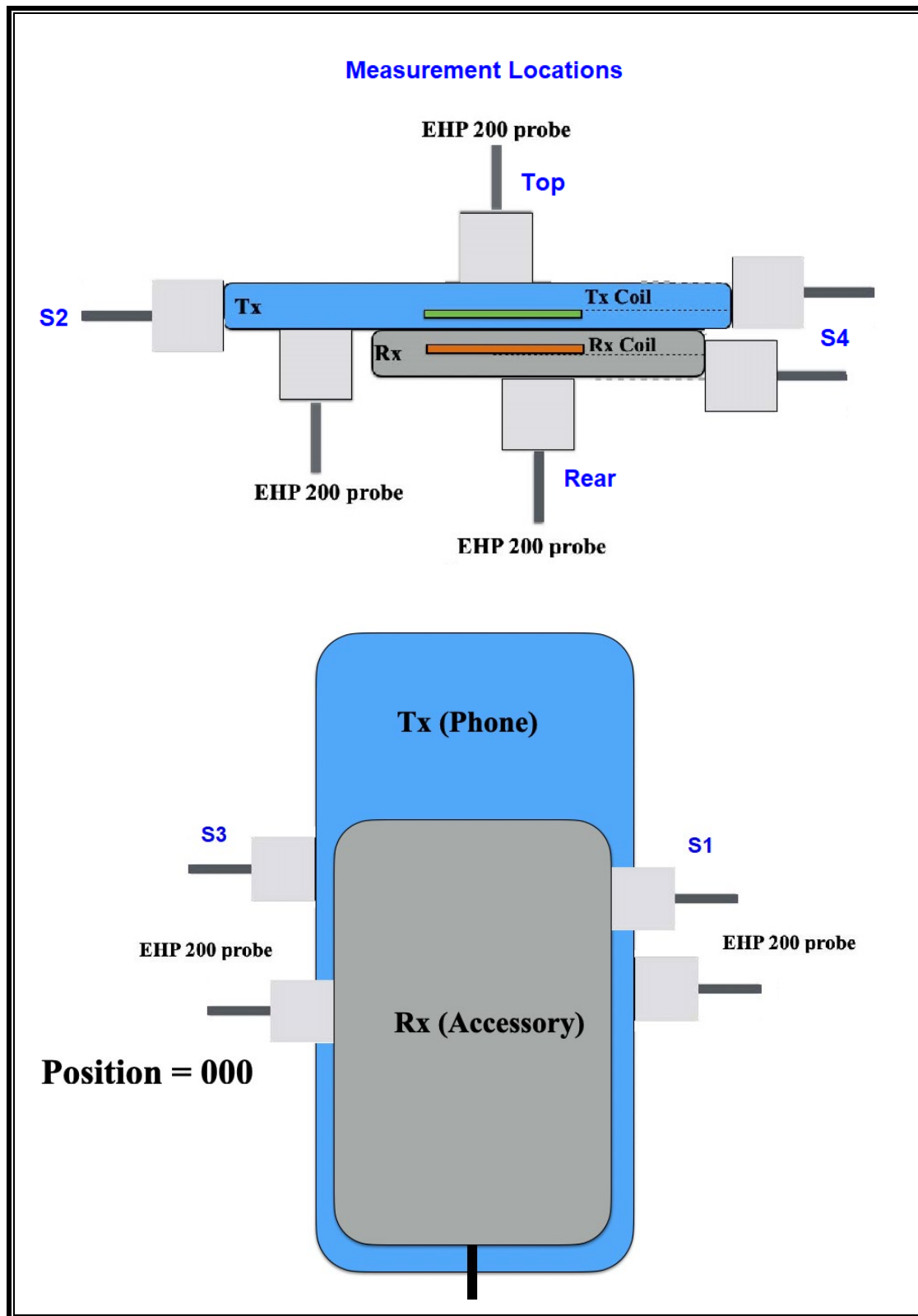
The following three configurations are tested:

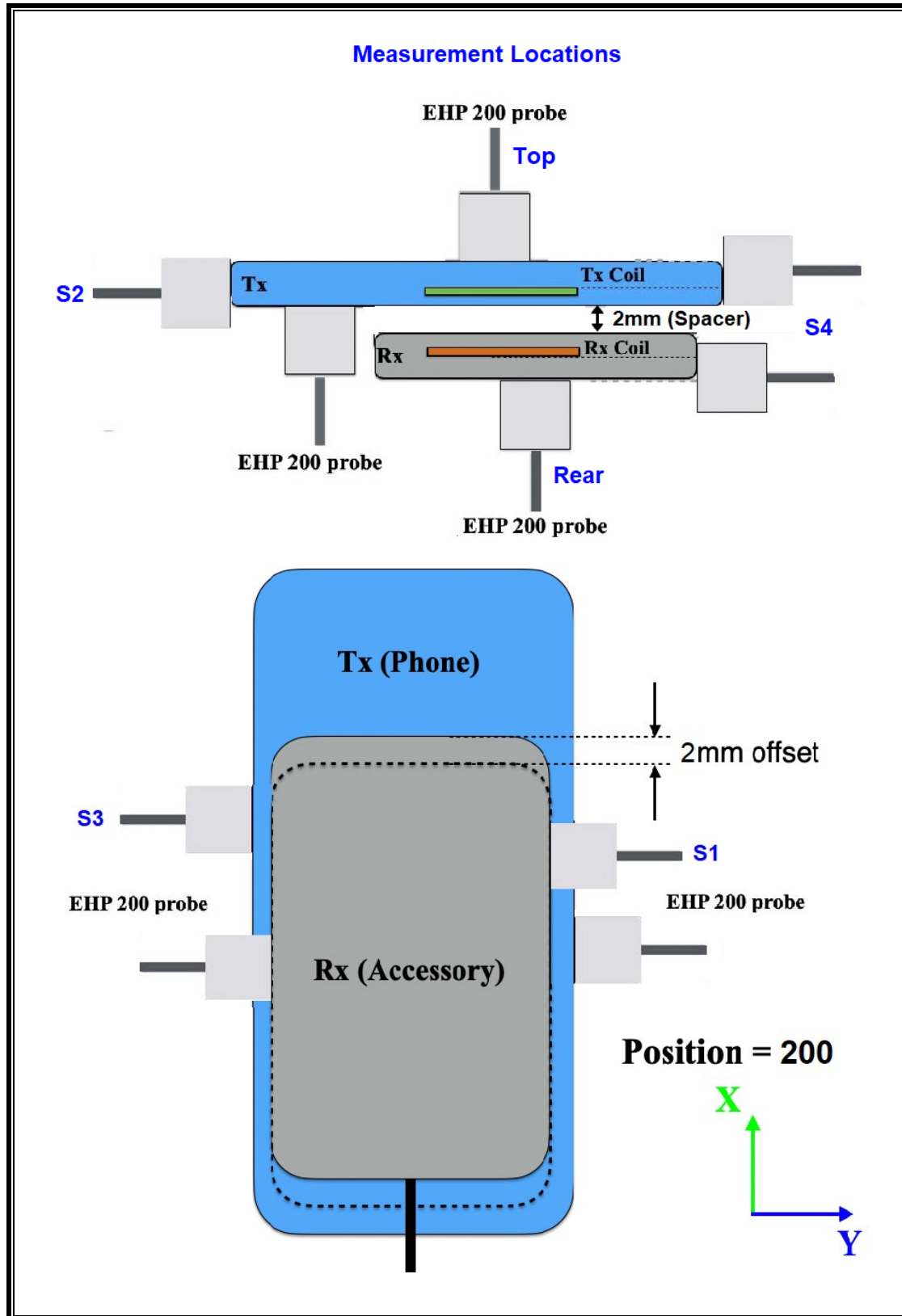
Configuration	Mode	Descriptions
1 (Direct Contact)	Operating (WPT Client, ~25% Power Charging)	EUT with lightning to USB-C cable powered by AC/DC Adapter & Wireless Charging to WPT Client
	Operating (WPT Client, 25%~60% Power Charging)	
	Operating (WPT Client >75% Power Charging)	
2 (2mm Airgap + 2mm Shift to Top or Bottom)	Operating (WPT Client, ~25% Power Charging)	EUT with lightning to USB-C cable powered by AC/DC Adapter & Wireless Charging to WPT Client
	Operating (WPT Client, 25%~60% Power Charging)	
	Operating (WPT Client >75% Power Charging)	
3 (3mm Airgap + 3mm Shift to Top or Bottom)	Operating (WPT Client, ~25% Power Charging)	EUT with lightning to USB-C cable powered by AC/DC Adapter & Wireless Charging to WPT Client
	Operating (WPT Client, 25%~60% Power Charging)	
	Operating (WPT Client >75% Power Charging)	

### MEASUREMENT SETUP

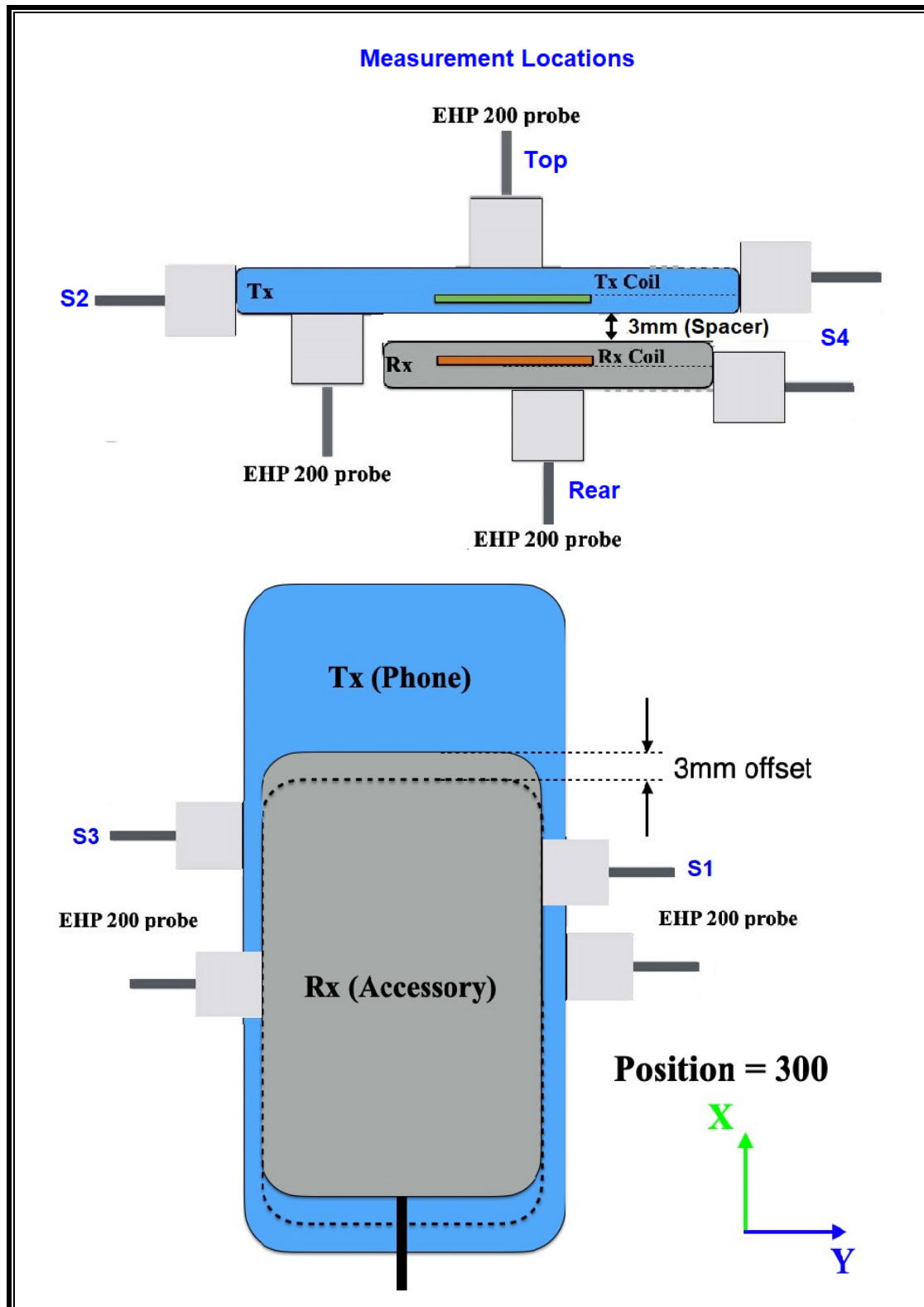
The measurement was taken using a probe placed 0 mm surrounding the device. Measurements were taken from the top and all sides of the EUT per KDB680106 D01 v03 and the manufacturer KDB inquiry.

**CONFIGURATION 1**



**CONFIGURATION 2**

**CONFIGURATION 3**



## 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 Date	Cal Due
Electric and Magnetic Field Probe	Narda	EHP-200A	160WX41008	T1085	11/25/2019	11/25/2020

## 7. DUTY CYCLE

### LIMITS

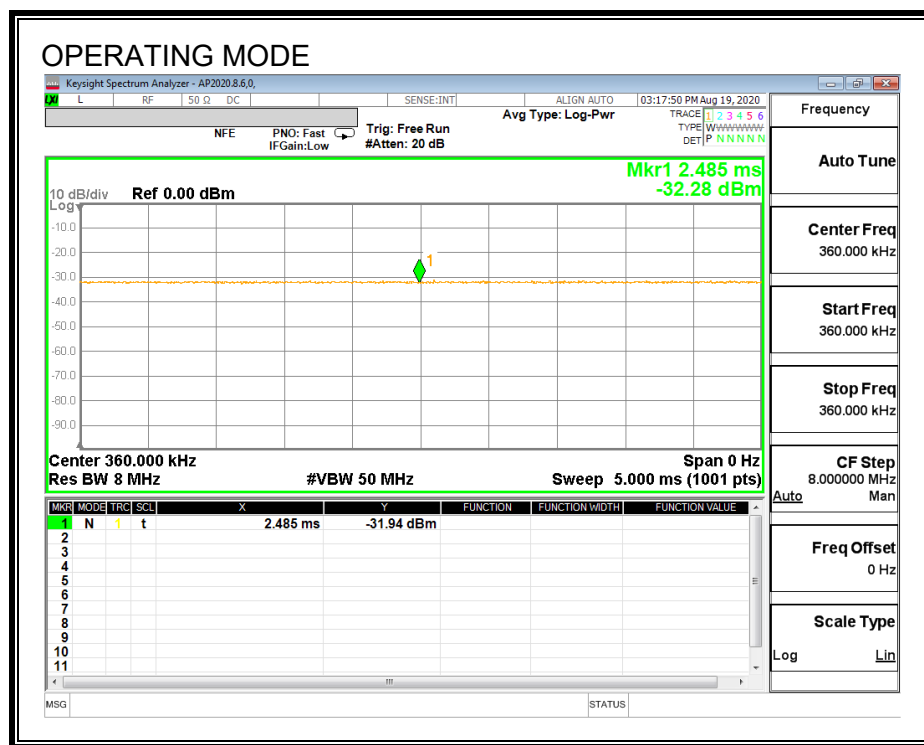
None; for reporting purposes only.

### 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)
Operating	100.00	100.00	1.00	100.00%	0.00



## 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 <sup>2</sup> )	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 <sup>2</sup> )	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 <sup>2</sup> )	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 <sup>2</sup> )	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.

### 8.1.1. MODEL A2176

#### **RESULTS**

<b>ID:</b>	38602	<b>Date:</b>	8/17/20
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#### **FCC RF Exposure Summary of Results**

##### **Configuration #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	1.332	0.22%	1.63	0.222	13.62%

##### **Configuration #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	1.913	0.31%	1.63	0.906	55.60%

##### **Configuration #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	3.138	0.51%	1.63	0.890	54.60%



**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:  $[\text{Field Strength} \times \sqrt{\text{Duty Cycle}}]$ .

**Configuration #1**

FCC Limit														
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
1	Operating Real Product (Power ~25% Charging)	0	614	S1	0.401	100	0.401	1.63	S1	0.074	100	0.074		
				S2	0.217		S2		0.038	0.038				
				S3	0.461		S3		0.040	0.040				
				S4	0.234		S4		0.047	0.047				
				Rear	1.193		Rear		0.042	0.042				
				Top	0.313		Top		0.201	0.201				
				Max	1.332		Max		0.202	0.202				
				S1	0.252		100		0.252	S1		0.071	100	0.071
	S2			0.227	S2	0.038			0.038					
	S3			0.291	S3	0.041			0.041					
	S4			0.227	S4	0.053			0.053					
	Rear			1.133	Rear	0.114			0.114					
	Top			0.269	Top	0.220			0.220					
	Max			1.133	Max	0.222			0.222					
	S1			0.245	100	0.245			S1	0.082	100	0.082		
	S2			0.218		S2	0.041		0.041					
	S3			0.290		S3	0.040		0.040					
	S4			0.226		S4	0.056		0.056					
	Rear			0.295		Rear	0.175		0.175					
	Top			1.062		Top	0.221		0.221					
	Max			1.113		Max	0.221		0.221					

**Configuration #2**

FCC Limit														
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
2	Operating Real Product (Power ~25% Charging) (2mm Airgap at Center)	0	614	S1	0.243	100	0.243	1.63	S1	0.112	100	0.112		
				S2	0.218		0.218		S2	0.089		0.089		
				S3	0.300		0.300		S3	0.128		0.128		
				S4	0.227		0.227		S4	0.074		0.074		
				Rear	0.886		0.886		Rear	0.078		0.078		
				Top	0.266		0.266		Top	0.252		0.252		
	Operating Real Product (Power ~25% Charging) (2mm Airgap & 2mm Shift to the Top)			Max	0.888	0.888	Max		0.377	0.377				
				S1	0.282	0.282	S1		0.278	0.278				
				S2	0.235	0.235	S2		0.294	0.294				
				S3	0.414	0.414	S3		0.336	0.336				
				S4	0.227	0.227	S4		0.243	0.243				
				Rear	0.985	0.985	Rear		0.300	0.300				
	Operating Real Product (Power ~25% Charging) (2mm Airgap & @2mm Shift to the Bottom)			Top	0.301	0.301	Top		0.332	0.332				
				Max	1.456	1.456	Max		0.830	0.830				
				S1	0.262	0.262	S1		0.179	0.179				
				S2	0.227	0.227	S2		0.068	0.068				
				S3	0.302	0.302	S3		0.282	0.282				
				S4	0.226	0.226	S4		0.059	0.059				
	Operating Real Product (Power 25% ~ 60% Charging) (2mm Airgap at Center)			Rear	0.957	0.957	Rear		0.272	0.272				
				Top	0.901	0.901	Top		0.321	0.321				
				Max	0.957	0.957	Max		0.661	0.661				
				S1	0.244	0.244	S1		0.108	0.108				
				S2	0.227	0.227	S2		0.089	0.089				
				S3	0.282	0.282	S3		0.091	0.091				
	Operating Real Product (Power 25% ~ 60% Charging) (2mm Airgap & 2mm Shift to the Top)			S4	0.235	0.235	S4		0.071	0.071				
				Rear	1.669	1.669	Rear		0.081	0.081				
				Top	0.267	0.267	Top		0.255	0.255				
				Max	1.669	1.669	Max		0.394	0.394				
				S1	0.245	0.245	S1		0.477	0.477				
				S2	0.235	0.235	S2		0.281	0.281				
	Operating Real Product (Power 25% ~ 60% Charging) (2mm Airgap & 2mm Shift to the Bottom)			S3	0.392	0.392	S3		0.147	0.147				
				S4	0.235	0.235	S4		0.254	0.254				
				Rear	0.904	0.904	Rear		0.307	0.307				
				Top	0.308	0.308	Top		0.422	0.422				
				Max	0.961	0.961	Max		0.906	0.906				
				S1	0.236	0.236	S1		0.154	0.154				
	Operating Real Product (Power ~75% Charging) (2mm Airgap & 2mm Shift to the Bottom)			S2	0.225	0.225	S2		0.075	0.075				
				S3	0.282	0.282	S3		0.179	0.179				
				S4	0.227	0.227	S4		0.054	0.054				
				Rear	1.870	1.870	Rear		0.097	0.097				
				Top	0.235	0.235	Top		0.340	0.340				
				Max	1.870	1.870	Max		0.396	0.396				
	Operating Real Product (Power >75% Charging) (2mm Airgap at Center)			S1	0.262	0.262	S1		0.056	0.056				
				S2	0.210	0.210	S2		0.090	0.090				
				S3	0.391	0.391	S3		0.091	0.091				
				S4	0.235	0.235	S4		0.071	0.071				
				Rear	1.817	1.817	Rear		0.078	0.078				
				Top	0.281	0.281	Top		0.272	0.272				
Operating Real Product (Power >75% Charging) (2mm Airgap & 2mm Shift to the Top)	Max	1.913	1.913	Max	0.342	0.342								
	S1	0.282	0.282	S1	0.338	0.338								
	S2	0.235	0.235	S2	0.281	0.281								
	S3	0.414	0.414	S3	0.209	0.209								
	S4	0.235	0.235	S4	0.244	0.244								
	Rear	0.989	0.989	Rear	0.292	0.292								
Operating Real Product (Power >75% Charging) (2mm Airgap & 2mm Shift to the Bottom)	Top	0.322	0.322	Top	0.380	0.380								
	Max	1.026	1.026	Max	0.887	0.887								
	S1	0.245	0.245	S1	0.192	0.192								
	S2	0.218	0.218	S2	0.074	0.074								
	S3	0.262	0.262	S3	0.114	0.114								
	S4	0.227	0.227	S4	0.055	0.055								
	Rear	0.903	0.903	Rear	0.089	0.089								
	Top	0.241	0.241	Top	0.359	0.359								
	Max	0.913	0.913	Max	0.417	0.417								

**Configuration #3**

FCC Limit														
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
3	Operating Real Product (Power ~25% Charging) (3mm Airgap at Center)	0	614	S1	0.262	100	0.262	1.63	S1	0.099	100	0.099		
				S2	0.227		0.227		S2	0.208		0.208		
				S3	0.389		0.389		S3	0.330		0.330		
				S4	0.235		0.235		S4	0.212		0.212		
				Rear	0.839		0.839		Rear	0.194		0.194		
	Operating Real Product (Power ~25% Charging) (3mm Airgap & 3mm Shift to the Top)			Top	0.266	0.266	Top		0.316	0.316				
				Max	0.867	0.867	Max		0.811	0.811				
				S1	0.318	0.318	S1		0.494	0.494				
				S2	0.227	0.227	S2		0.225	0.225				
				S3	0.444	0.444	S3		0.384	0.384				
	Operating Real Product (Power ~25% Charging) (3mm Airgap & @3mm Shift to the Bottom)			S4	0.235	0.235	S4		0.103	0.103				
				Rear	1.417	1.417	Rear		0.520	0.520				
				Top	0.267	0.267	Top		0.361	0.361				
				Max	1.441	1.441	Max		0.662	0.662				
				S1	0.300	0.300	S1		0.524	0.524				
	Operating Real Product (Power 25% ~ 60% Charging) (3mm Airgap & @3mm Shift to the Bottom)			S2	0.235	0.235	S2		0.306	0.306				
				S3	0.417	0.417	S3		0.583	0.583				
				S4	0.227	0.227	S4		0.156	0.156				
				Rear	1.345	1.345	Rear		0.368	0.368				
				Top	0.267	0.267	Top		0.432	0.432				
	Operating Real Product (Power 25% ~ 60% Charging) (3mm Airgap at Center)			Max	1.345	1.345	Max		0.727	0.727				
				S1	0.254	0.254	S1		0.115	0.115				
				S2	0.235	0.235	S2		0.196	0.196				
				S3	0.357	0.357	S3		0.198	0.198				
				S4	0.235	0.235	S4		0.213	0.213				
	Operating Real Product (Power 25% ~ 60% Charging) (3mm Airgap & 3mm Shift to the Top)			Rear	0.885	0.885	Rear		0.211	0.211				
				Top	0.327	0.327	Top		0.381	0.381				
				Max	0.886	0.886	Max		0.846	0.846				
				S1	0.321	0.321	S1		0.519	0.519				
				S2	0.227	0.227	S2		0.224	0.224				
	Operating Real Product (Power 25% ~ 60% Charging) (3mm Airgap & 3mm Shift to the Bottom)			S3	0.500	0.500	S3		0.428	0.428				
				S4	0.243	0.243	S4		0.109	0.109				
				Rear	3.138	3.138	Rear		0.276	0.276				
				Top	0.277	0.277	Top		0.345	0.345				
				Max	3.138	3.138	Max		0.689	0.689				
	Operating Real Product (Power 25% ~ 60% Charging) (3mm Airgap & 3mm Shift to the Bottom)			S1	0.327	0.327	S1		0.606	0.606				
				S2	0.227	0.227	S2		0.303	0.303				
				S3	0.378	0.378	S3		0.542	0.542				
				S4	0.235	0.235	S4		0.152	0.152				
				Rear	1.365	1.365	Rear		0.369	0.369				
	Operating Real Product (Power >75% Charging) (3mm Airgap at Center)			Top	0.277	0.277	Top		0.431	0.431				
				Max	1.365	1.365	Max		0.890	0.890				
				S1	0.253	0.253	S1		0.114	0.114				
				S2	0.227	0.227	S2		0.212	0.212				
				S3	0.407	0.407	S3		0.365	0.365				
	Operating Real Product (Power >75% Charging) (3mm Airgap & 3mm Shift to the Top)			S4	0.234	0.234	S4		0.212	0.212				
				Rear	0.877	0.877	Rear		0.198	0.198				
				Top	0.266	0.266	Top		0.360	0.360				
				Max	0.877	0.877	Max		0.679	0.679				
				S1	0.307	0.307	S1		0.475	0.475				
	Operating Real Product (Power >75% Charging) (3mm Airgap & 3mm Shift to the Top)			S2	0.227	0.227	S2		0.234	0.234				
				S3	0.425	0.425	S3		0.454	0.454				
				S4	0.235	0.235	S4		0.103	0.103				
				Rear	1.473	1.473	Rear		0.282	0.282				
				Top	0.284	0.284	Top		0.281	0.281				
	Operating Real Product (Power >75% Charging) (3mm Airgap & 3mm Shift to the Bottom)			Max	1.473	1.473	Max		0.525	0.525				
				S1	0.307	0.307	S1		0.544	0.544				
				S2	0.235	0.235	S2		0.303	0.303				
				S3	0.483	0.483	S3		0.667	0.667				
				S4	0.235	0.235	S4		0.145	0.145				
	Operating Real Product (Power >75% Charging) (3mm Airgap & 3mm Shift to the Bottom)			Rear	1.202	1.202	Rear		0.360	0.360				
				Top	0.274	0.274	Top		0.373	0.373				
				Max	1.211	1.211	Max		0.728	0.728				

## 8.2.1. MODEL A2398

### RESULTS

ID:	38602	Date:	8/18/20
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### FCC RF Exposure Summary of Results

#### Configuration #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	0.891	0.15%	1.63	0.833	51.10%

### 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 #2:

FCC Limit													
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 %
			2	Operating Real Product (Power 25% ~ 60% Charging) (2mm Airgap & 2mm Shift to the Top)	0	614	S1	0.570	100	0.570	1.63	S1	0.251
S2	0.229	0.229					S2	0.252		0.252			
S3	0.352	0.352					S3	0.053		0.053			
S4	0.227	0.227					S4	0.276		0.276			
Rear	0.822	0.822					Rear	0.265		0.265			
Top	0.277	0.277					Top	0.330		0.330			
Max	0.891	0.891					Max	0.833		0.833			

## 8.2.2. MODEL A2399

### RESULTS

ID:	38602	Date:	8/18/20
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### FCC RF Exposure Summary of Results

#### Configuration #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	1.155	0.19%	1.63	0.756	46.36%

### 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 #2:

FCC Limit													
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 %
			2	Operating Real Product (Power 25% ~ 60% Charging) (2mm Airgap & 2mm Shift to the Top)	0	614	S1	0.288	100	0.288	1.63	S1	0.169
S2	0.227	0.227					S2	0.262		0.262			
S3	0.388	0.388					S3	0.054		0.054			
S4	0.227	0.227					S4	0.263		0.263			
Rear	1.137	1.137					Rear	0.736		0.736			
Top	0.277	0.277					Top	0.362		0.362			
Max	1.155	1.155					Max	0.756		0.756			

## **9. SETUP PHOTO**

Please see setup photo report 13179110-EP1

**END OF REPORT**