



FCC Part 1 Subpart I
FCC Part 2 Subpart J

CERTIFICATION TEST REPORT

FOR

SMART PHONE

MODEL NO: A2172 (Full Test)
A2402 (Spot Check Worst Case)
A2403/A2404/A2405 (Spot Check Worst Case)

FCC ID: BCG-E3542A (Full Test)
BCG-E3543A (Spot Check Worst Case)
BCG-E3544A (Spot Check Worst Case)

REPORT NUMBER: 13179116-E16V2

ISSUE DATE: SEPTEMBER 10, 2020

Prepared for
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CUPERTINO, CA 95014, U.S.A

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Revision History

Rev.	Issue Date	Revisions	Revised By
V1	09/09/2020	Initial Issue	T. Chan
V2	09/10/2020	Addressed TCB's Qustion	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: A2172 (Full Test)
A2402 (Spot Check Worst Case)
A2403, A2404, A2405 (Spot Check Worst Case)

SERIAL NUMBER: G6TD101T04FJ (A2172)
G6TD300V04DD (A2402)
G6TD200M04HF (A2403)

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.

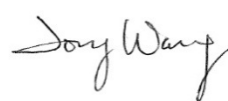
Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section.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



Thu Chan
Staff Engineer
UL Verification Service Inc.

Prepared By:



Tony Wang
Test Engineer
UL Verification Services Inc.

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.
☐ Chamber A (IC:2324B-1)	☐ Chamber D (IC:22541-1)	☐ Chamber I (IC: 2324A-5)
☐ Chamber B (IC:2324B-2)	☐ Chamber E (IC:22541-2)	☐ Chamber J (IC: 2324A-6)
☐ Chamber C (IC:2324B-3)	☐ Chamber F (IC:22541-3)	☐ Chamber K (IC: 2324A-1)
☒ Temperature B Room	☐ Chamber G (IC:22541-4)	☐ Chamber L (IC: 2324A-3)
	☐ 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-E3542A, FCC ID: BCG-E3543A, and FCC ID: BCG-E3544A 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-E3542A test data shall remain representative of FCC ID: BCG-E3543A and FCC ID: BCG-E3544A. 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 A2172 (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 A2402 (Spot Check Worst Case):

Config	Mode	Descriptions
3	Operating	3mm Airgap charging between the EUT & WPT Client + 3mm offset shift to Top @ 25 ~ 60% power charging, and EUT powered by AC/DC adapter via USB-C cable.

Model A2403 (Spot Check Worst Case):

Config	Mode	Descriptions
3	Operating	3mm Airgap charging between the EUT & WPT Client + 3mm 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

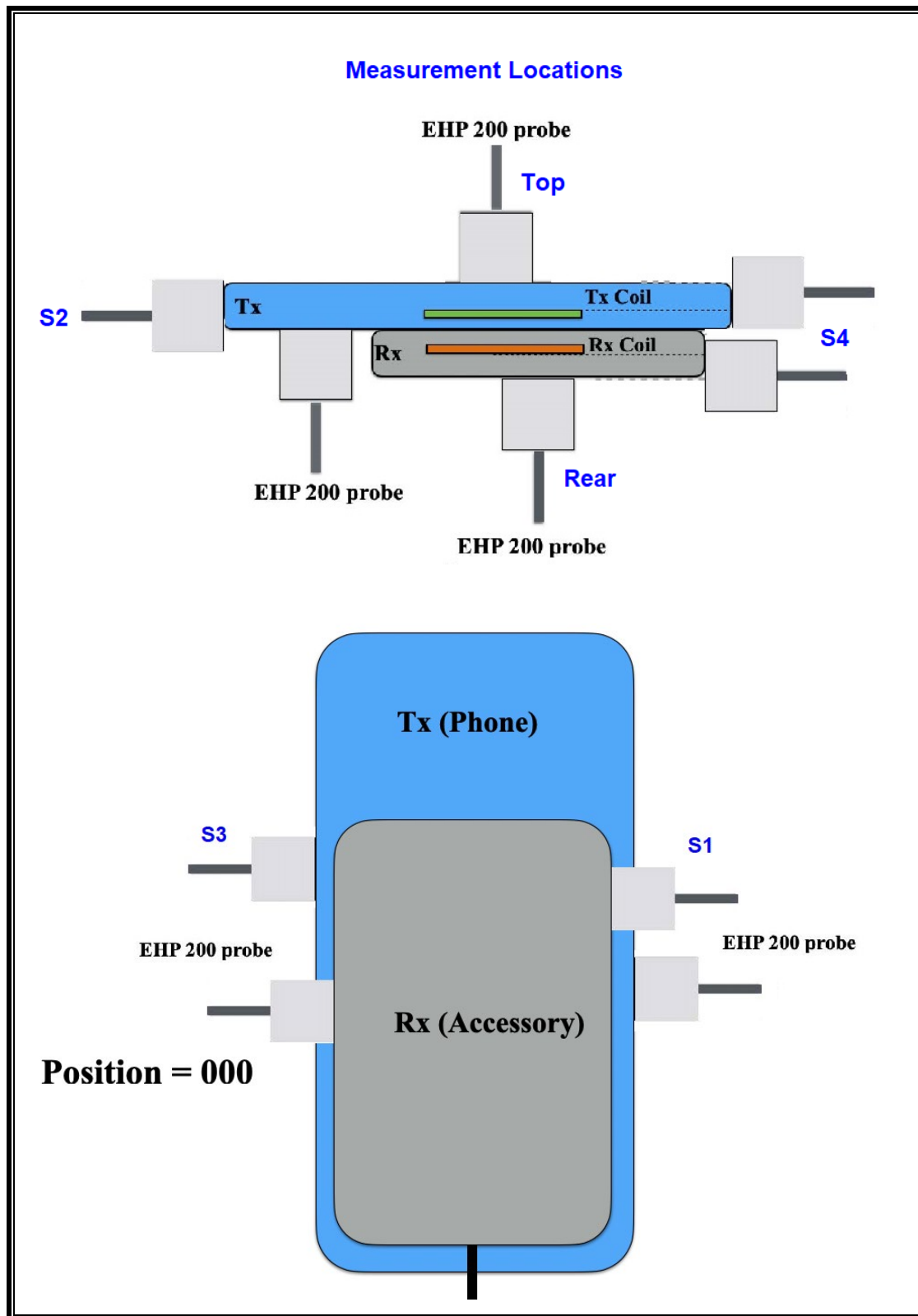
The following three configurations are tested:

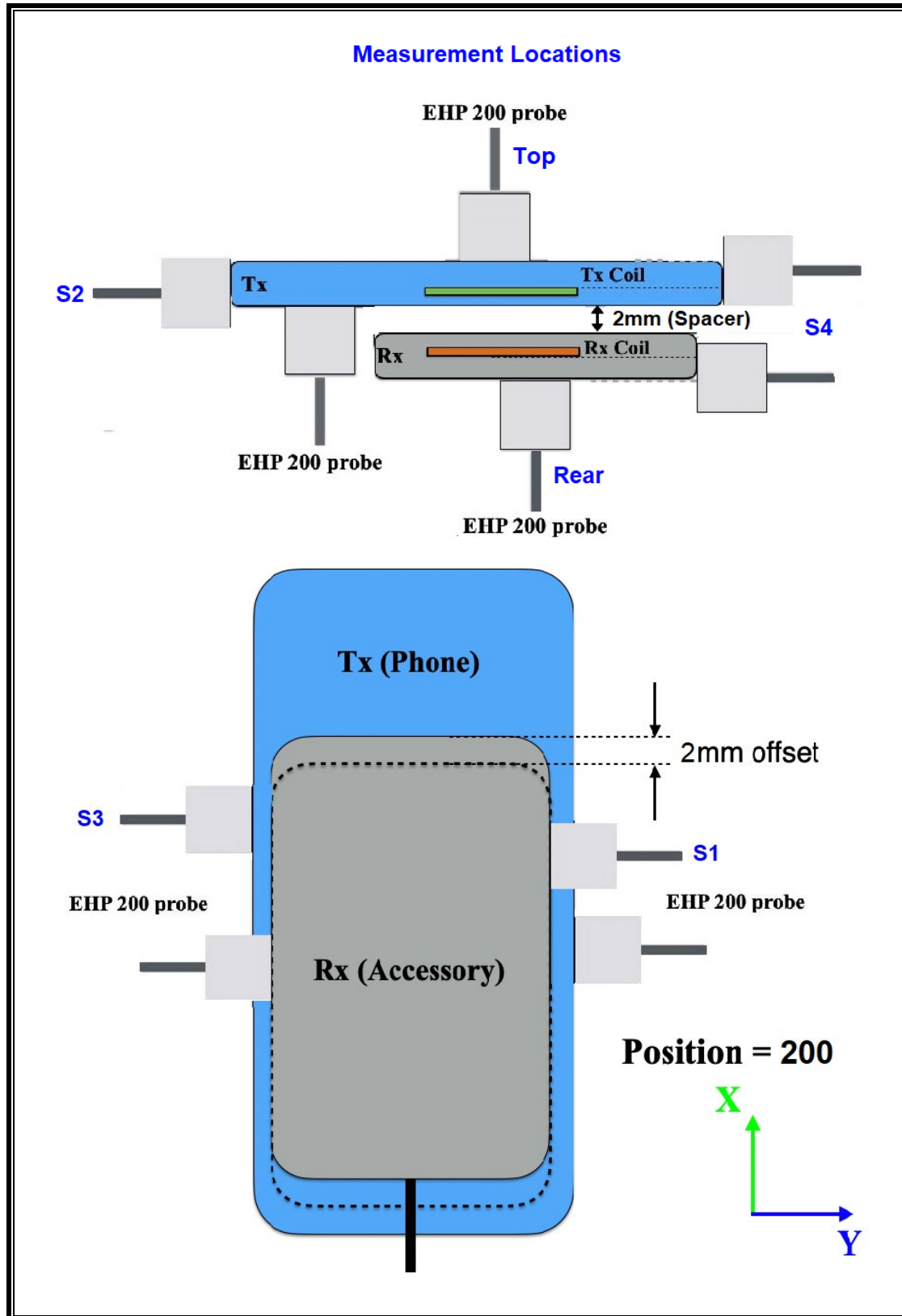
Configuration	Mode	Descriptions
1 (Direct Contact)	Operating (WPT Client, ~25% Power Charging)	EUT with lightning to USB-C cable powered by AC/DC Adapter & Wireless Charging to WPT Client
	Operating (WPT Client, 25%~60% Power Charging)	
	Operating (WPT Client >75% Power Charging)	
2 (2mm Airgap + 2mm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

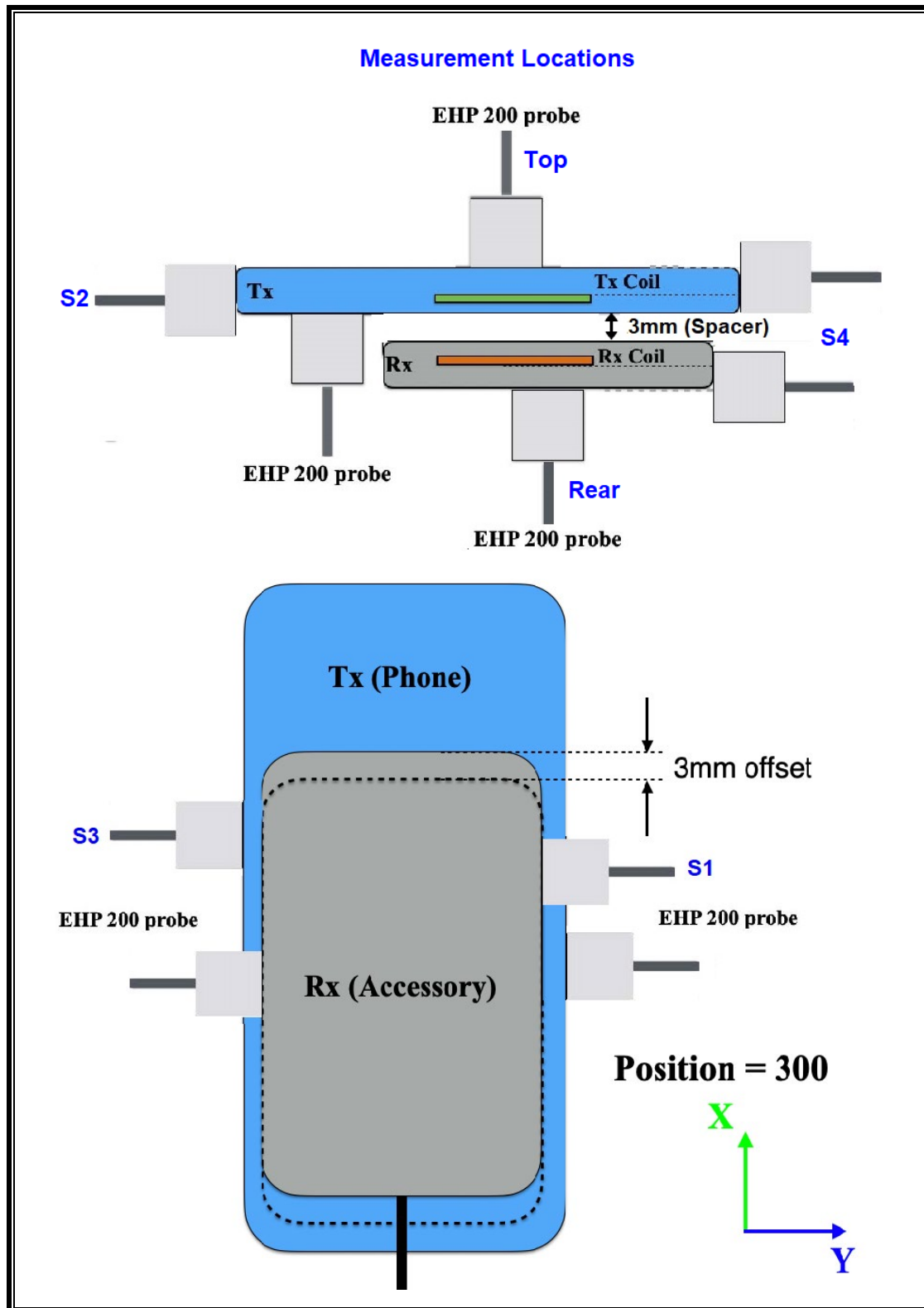
The measurement was taken using a probe placed 0 mm surrounding the device. Measurements were taken from the top and all sides of the EUT per KDB680106 D01 v03 and the manufacturer KDB inquiry.

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

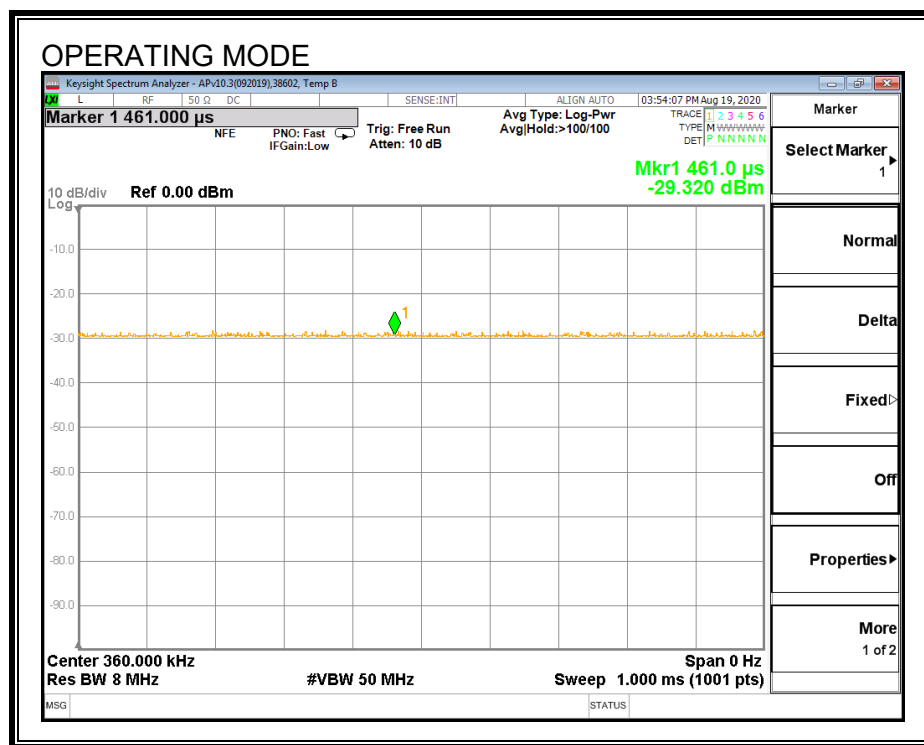
None; for reporting purposes only.

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 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.

8.1.1. MODEL A2172

RESULTS

ID:	38602	Date:	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	3.082	0.50%	1.63	0.420	25.77%

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	2.092	0.34%	1.63	0.799	49.02%

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	2.389	0.39%	1.63	1.026	62.94%

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

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
			1	Operating Real Product (Power ~25% Charging)	0	614	S1	0.227	100	0.227	1.63	S1
S2	0.218	0.218					S2	0.041		0.041		
S3	0.282	0.282					S3	0.115		0.115		
S4	0.242	0.242					S4	0.038		0.038		
Rear	3.055	3.055					Rear	0.042		0.042		
Top	0.267	0.267					Top	0.343		0.343		
Max	3.082	3.082					Max	0.055		0.055		
Operating Real Product (Power 25% ~ 60% Charging)	S1	0.234					100	0.234		S1		0.098
	S2	0.233		0.233				S2	0.034	0.034		
	S3	0.281		0.281				S3	0.118	0.118		
	S4	0.231		0.231				S4	0.038	0.038		
	Rear	2.660		2.660				Rear	0.046	0.046		
	Top	0.225		0.225				Top	0.359	0.359		
	Max	2.711		2.711				Max	0.364	0.364		
	Operating Real Product (Power >75% Charging)	S1		0.232				100	0.232	S1		0.092
S2		0.218		0.218			S2		0.036	0.036		
S3		0.263		0.263			S3		0.111	0.111		
S4		0.226		0.226			S4		0.036	0.036		
Rear		1.511		1.511			Rear		0.041	0.041		
Top		0.237		0.237			Top		0.404	0.404		
Max		1.544		1.544			Max		0.420	0.420		

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	0.227	100	0.227	1.63	S1	0.102	100	0.102		
				S2	0.227		0.227		S2	0.053		0.053		
				S3	0.282		0.282		S3	0.101		0.101		
				S4	0.235		0.235		S4	0.053		0.053		
				Rear	1.940		1.940		Rear	0.060		0.060		
				Top	0.266		0.266		Top	0.477		0.477		
	Operating Real Product (Power ~25% Charging) (2mm Airgap & 2mm Shift to the Top)			Max	2.092	2.092	Max		0.617	0.617				
				S1	0.266	0.266	S1		0.484	0.484				
				S2	0.245	0.245	S2		0.223	0.223				
				S3	0.431	0.431	S3		0.253	0.253				
				S4	0.235	0.235	S4		0.115	0.115				
				Rear	0.920	0.920	Rear		0.460	0.460				
	Operating Real Product (Power ~25% Charging) (2mm Airgap & @2mm Shift to the Bottom)			Top	0.259	0.259	Top		0.710	0.710				
				Max	1.448	1.448	Max		0.747	0.747				
				S1	0.226	0.226	S1		0.070	0.070				
				S2	0.222	0.222	S2		0.036	0.036				
				S3	0.253	0.253	S3		0.087	0.087				
				S4	0.235	0.235	S4		0.036	0.036				
	Operating Real Product (Power 25% ~ 60% Charging) (2mm Airgap at Center)			Rear	0.985	0.985	Rear		0.071	0.071				
				Top	0.218	0.218	Top		0.536	0.536				
				Max	1.568	1.568	Max		0.575	0.575				
				S1	0.235	0.235	S1		0.070	0.070				
				S2	0.227	0.227	S2		0.050	0.050				
				S3	0.282	0.282	S3		0.113	0.113				
	Operating Real Product (Power 25% ~ 60% Charging) (2mm Airgap & 2mm Shift to the Top)			S4	0.235	0.235	S4		0.051	0.051				
				Rear	1.133	1.133	Rear		0.058	0.058				
				Top	0.236	0.236	Top		0.509	0.509				
				Max	1.523	1.523	Max		0.558	0.558				
				S1	0.266	0.266	S1		0.601	0.601				
				S2	0.235	0.235	S2		0.210	0.210				
	Operating Real Product (Power 25% ~ 60% Charging) (2mm Airgap & 2mm Shift to the Bottom)			S3	0.410	0.410	S3		0.116	0.116				
				S4	0.235	0.235	S4		0.111	0.111				
				Rear	0.948	0.948	Rear		0.442	0.442				
				Top	0.308	0.308	Top		0.665	0.665				
				Max	1.352	1.352	Max		0.799	0.799				
				S1	0.234	0.234	S1		0.120	0.120				
	Operating Real Product (Power 25% ~ 60% Charging) (2mm Airgap & 2mm Shift to the Bottom)			S2	0.218	0.218	S2		0.036	0.036				
				S3	0.254	0.254	S3		0.102	0.102				
				S4	0.235	0.235	S4		0.036	0.036				
				Rear	0.995	0.995	Rear		0.055	0.055				
				Top	0.235	0.235	Top		0.503	0.503				
				Max	1.457	1.457	Max		0.538	0.538				
	Operating Real Product (Power >75% Charging) (2mm Airgap at Center)			S1	0.226	0.226	S1		0.086	0.086				
				S2	0.218	0.218	S2		0.049	0.049				
				S3	0.282	0.282	S3		0.095	0.095				
				S4	0.235	0.235	S4		0.043	0.043				
				Rear	0.949	0.949	Rear		0.060	0.060				
				Top	0.228	0.228	Top		0.511	0.511				
Operating Real Product (Power >75% Charging) (2mm Airgap & 2mm Shift to the Top)	Max	1.692	1.692	Max	0.584	0.584								
	S1	0.266	0.266	S1	0.529	0.529								
	S2	0.253	0.253	S2	0.220	0.220								
	S3	0.447	0.447	S3	0.193	0.193								
	S4	0.235	0.235	S4	0.115	0.115								
	Rear	0.941	0.941	Rear	0.434	0.434								
Operating Real Product (Power >75% Charging) (2mm Airgap & 2mm Shift to the Bottom)	Top	0.313	0.313	Top	0.708	0.708								
	Max	1.343	1.343	Max	0.751	0.751								
	S1	0.234	0.234	S1	0.135	0.135								
	S2	0.226	0.226	S2	0.037	0.037								
	S3	0.245	0.245	S3	0.119	0.119								
	S4	0.244	0.244	S4	0.039	0.039								
	Rear	1.067	1.067	Rear	0.045	0.045								
	Top	0.226	0.226	Top	0.539	0.539								
	Max	1.515	1.515	Max	0.588	0.588								

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	0.235	100	0.235	1.63	S1	0.193	100	0.193		
				S2	0.229		0.229		S2	0.081		0.081		
				S3	0.277		0.277		S3	0.137		0.137		
				S4	0.236		0.236		S4	0.073		0.073		
				Rear	1.963		1.963		Rear	0.112		0.112		
	Operating Real Product (Power ~25% Charging) (3mm Airgap & 3mm Shift to the Top)			Top	0.246	0.246	Top		0.633	0.633				
				Max	1.972	1.972	Max		0.663	0.663				
				S1	0.291	0.291	S1		0.976	0.976				
				S2	0.244	0.244	S2		0.179	0.179				
				S3	0.416	0.416	S3		0.336	0.336				
	Operating Real Product (Power ~25% Charging) (3mm Airgap & @3mm Shift to the Bottom)			S4	0.244	0.244	S4		0.161	0.161				
				Rear	2.302	2.302	Rear		0.420	0.420				
				Top	0.228	0.228	Top		0.664	0.664				
				Max	2.389	2.389	Max		0.698	0.698				
				S1	0.252	0.252	S1		0.289	0.289				
	Operating Real Product (Power 25% ~ 60% Charging) (3mm Airgap at Center)			S2	0.227	0.227	S2		0.038	0.038				
				S3	0.235	0.235	S3		0.090	0.090				
				S4	0.235	0.235	S4		0.074	0.074				
				Rear	0.957	0.957	Rear		0.120	0.120				
				Top	0.224	0.224	Top		0.539	0.539				
	Operating Real Product (Power 25% ~ 60% Charging) (3mm Airgap at Center)			Max	1.664	1.664	Max		0.586	0.586				
				S1	0.237	0.237	S1		0.125	0.125				
				S2	0.225	0.225	S2		0.071	0.071				
				S3	0.265	0.265	S3		0.144	0.144				
				S4	0.223	0.223	S4		0.073	0.073				
	Operating Real Product (Power 25% ~ 60% Charging) (3mm Airgap & 3mm Shift to the Top)			Rear	2.118	2.118	Rear		0.144	0.144				
				Top	0.246	0.246	Top		0.618	0.618				
				Max	2.223	2.223	Max		0.645	0.645				
				S1	0.292	0.292	S1		0.974	0.974				
				S2	0.235	0.235	S2		0.191	0.191				
	Operating Real Product (Power 25% ~ 60% Charging) (3mm Airgap & 3mm Shift to the Bottom)			S3	0.417	0.417	S3		0.358	0.358				
				S4	0.244	0.244	S4		0.164	0.164				
				Rear	1.757	1.757	Rear		0.385	0.385				
				Top	0.258	0.258	Top		0.693	0.693				
				Max	1.977	1.977	Max		1.026	1.026				
	Operating Real Product (Power 25% ~ 60% Charging) (3mm Airgap & 3mm Shift to the Bottom)			S1	0.273	0.273	S1		0.255	0.255				
				S2	0.218	0.218	S2		0.038	0.038				
				S3	0.237	0.237	S3		0.084	0.084				
				S4	0.235	0.235	S4		0.072	0.072				
				Rear	1.889	1.889	Rear		0.101	0.101				
	Operating Real Product (Power >75% Charging) (3mm Airgap at Center)			Top	0.226	0.226	Top		0.632	0.632				
				Max	1.905	1.905	Max		0.685	0.685				
				S1	0.244	0.244	S1		0.118	0.118				
				S2	0.235	0.235	S2		0.075	0.075				
				S3	0.263	0.263	S3		0.125	0.125				
	Operating Real Product (Power >75% Charging) (3mm Airgap & 3mm Shift to the Top)			S4	0.245	0.245	S4		0.073	0.073				
				Rear	2.297	2.297	Rear		0.164	0.164				
				Top	0.247	0.247	Top		0.594	0.594				
				Max	2.353	2.353	Max		0.615	0.615				
				S1	0.282	0.282	S1		0.981	0.981				
	Operating Real Product (Power >75% Charging) (3mm Airgap & 3mm Shift to the Bottom)			S2	0.244	0.244	S2		0.182	0.182				
				S3	0.381	0.381	S3		0.304	0.304				
				S4	0.245	0.245	S4		0.161	0.161				
				Rear	2.309	2.309	Rear		0.393	0.393				
				Top	0.245	0.245	Top		0.706	0.706				
	Operating Real Product (Power >75% Charging) (3mm Airgap & 3mm Shift to the Bottom)			Max	2.343	2.343	Max		1.006	1.006				
				S1	0.261	0.261	S1		0.271	0.271				
				S2	0.227	0.227	S2		0.036	0.036				
				S3	0.235	0.235	S3		0.092	0.092				
				S4	0.234	0.234	S4		0.075	0.075				
				Rear	1.559	1.559	Rear		0.098	0.098				
				Top	0.236	0.236	Top		0.493	0.493				
				Max	1.574	1.574	Max		0.617	0.617				

8.2.1. MODEL A2402

RESULTS

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

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	2.221	0.36%	1.63	0.849	52.09%

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 #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% ~ 60% Charging) (3mm Airgap & 3mm Shift to the Top)	0	614	S1	0.253	100	0.253	1.63	S1	0.849	100	0.849
				S2	0.237		0.237		S2	0.177		0.177
				S3	0.371		0.371		S3	0.323		0.323
				S4	0.254		0.254		S4	0.135		0.135
				Rear	2.221		2.221		Rear	0.701		0.701
				Top	0.269		0.269		Top	0.658		0.658
				Max	2.221		2.221		Max	0.849		0.849

8.2.2. MODEL A2403

RESULTS

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

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	3.758	0.61%	1.63	0.793	48.65%

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 #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	FCC
3	Operating Real Product (Power 25% ~ 60% Charging) (3mm Airgap & 3mm Shift to the Top)	0	614	S1	0.263	100	0.263	1.63	S1	0.793	100	0.793	
				S2	0.235		0.235		S2	0.171		0.171	
				S3	0.358		0.358		S3	0.212		0.212	
				S4	0.253		0.253		S4	0.107		0.107	
				Rear	3.758		3.758		Rear	0.414		0.414	
				Top	0.302		0.302		Top	0.584		0.584	
				Max	3.758		3.758		Max	0.793		0.793	

END OF REPORT

9. SETUP PHOTO

Please see setup photo report 13179116-EP1V1

END OF TEST REPORT