



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

CERTIFICATION TEST REPORT

FOR

SMART PHONE

**MODEL NO: A2632 (Parent Model, Full Test)
A2885, A2886, A2887, A2888 (Variant Models)**

**FCC ID: BCG-E8139A (Parent Model)
FCC ID: BCG-E8146A, BCG-E8147A, BCG-E8148A (Variant
Models)**

REPORT NUMBER: 14040868-E15V1

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Prepared for
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Revision History

Rev.	Issue Date	Revisions	Revised By
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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

EUT DESCRIPTION: SMARTPHONE

MODEL: A2632 (Parent Model)
A2885, A2886, A2887, A2888 (Variant Models)

BRAND: APPLE

FCC ID: BCG-E8139A (Parent Model)
BCG-E8146A, BCG-E8147A, BCG-E8148A (Variant Models)

IC: 579C-E8139A (Parent Model)
579C-E8146A, 579C-E8147A, 579C-E8148A (Variant Models)

SERIAL NUMBER: JQFPC761YX (Parent Model, Full Test)
V2V6DW6HH0, PH3QM54K07, VNJD292GQG (Variant Models)

SAMPLE RECEIPT DATE JULY 11, 2022

DATE TESTED: JULY 11-12, 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:



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2. TEST METHODOLOGY

All measurements made in accordance with KDB 680106 and manufacturer KDB inquiry.

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.	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. 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.

6. EQUIPMENT UNDER TEST

6.1. DESCRIPTION OF EUT

The Apple iPhone is a smartphone with multimedia functions (music, application support, and video), cellular GSM, GPRS, EGPRS, UMTS, LTE, 5G, IEEE 802.11a/b/g/n/ac/ax, Bluetooth, Ultra-Wideband, GPS, NFC and MSS. All models except reference model 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.

Model A2887 and A2888 have the same FCC ID, Spot check was performed only for Model A2891, difference between these models are on the SIM only.

The Model and FCC IDs covered by this report includes:

Parent Model: A2632, FCC ID: BCG-E8139A

Variant Models: A2885, BCG-E8146A
A2886; BCG-E8147A
A2887 & A2888, BCG-E8148A

6.2. 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. Full test, configuration 1 & 2, was investigated on Parent model, and the worst case was configuration 2 at 25-70% power charging 2mm shift to the top, therefore, config 2, worst case was investigated only on variant models. For worst case at H field on configuration 2 at 2cm increment, please see SAR simulation report.

Model A2650

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.

A2889, A2890, A2891, A2892 (Variant Model, Spot Check Worst Case)

Config	Mode	Descriptions
2	Operating	2mm airgap charging between the EUT & WPT Client + 2mm offset shift to Top or Bottom@ 25 ~ 70% power charging, and the EUT is powered by AC/DC adapter via USB-C cable.

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

SUPPORT EQUIPMENT & PERIPHERALS LIST			
Description	Manufacturer	Model	Serial Number
WPT battery Pack	Apple	A2384	DL5HC1X30NLJ
AC/DC Adapter	Apple	A2305	N/A

I/O CABLES

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

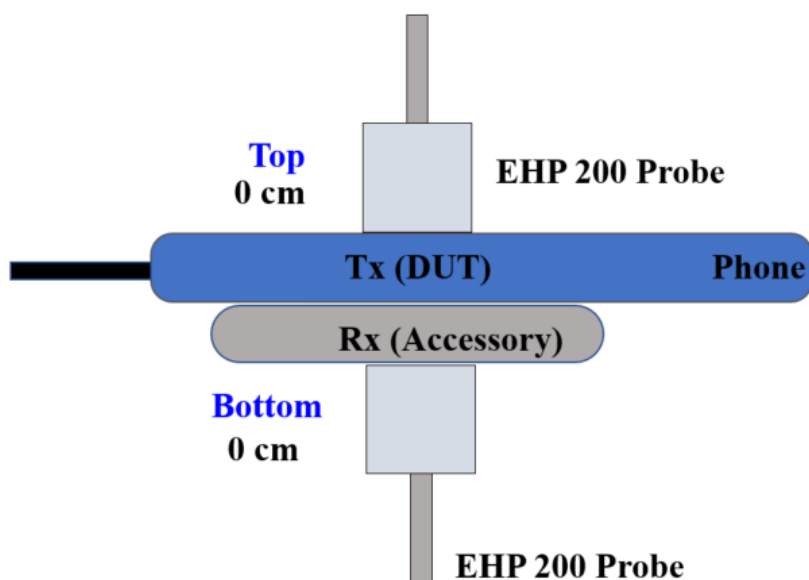
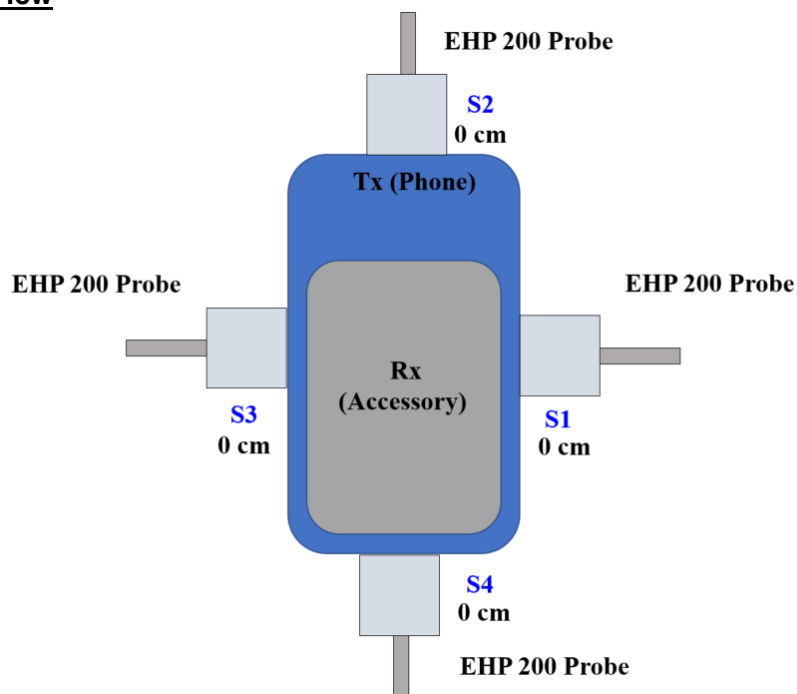
TEST SETUP

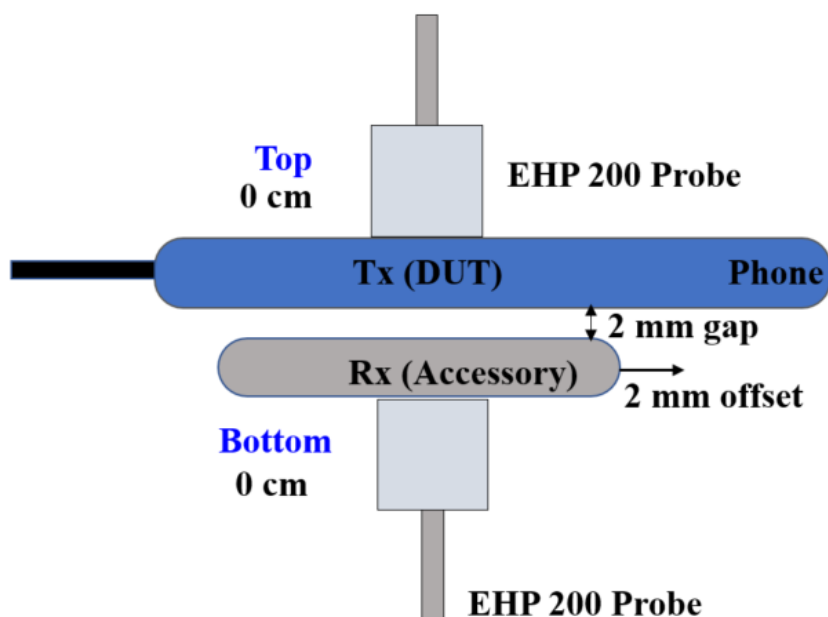
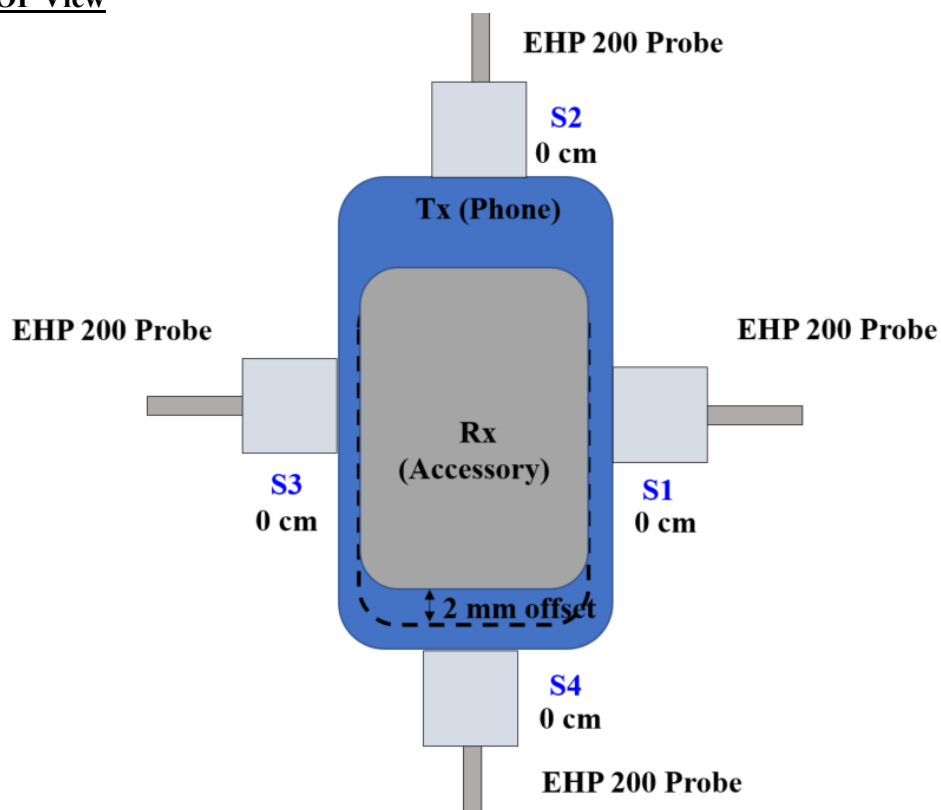
The following configurations are tested:

Configuration	Mode	Descriptions
1 (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%~70% 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%~70% 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**Side View****Top View**

CONFIGURATION 2Side ViewTOP 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

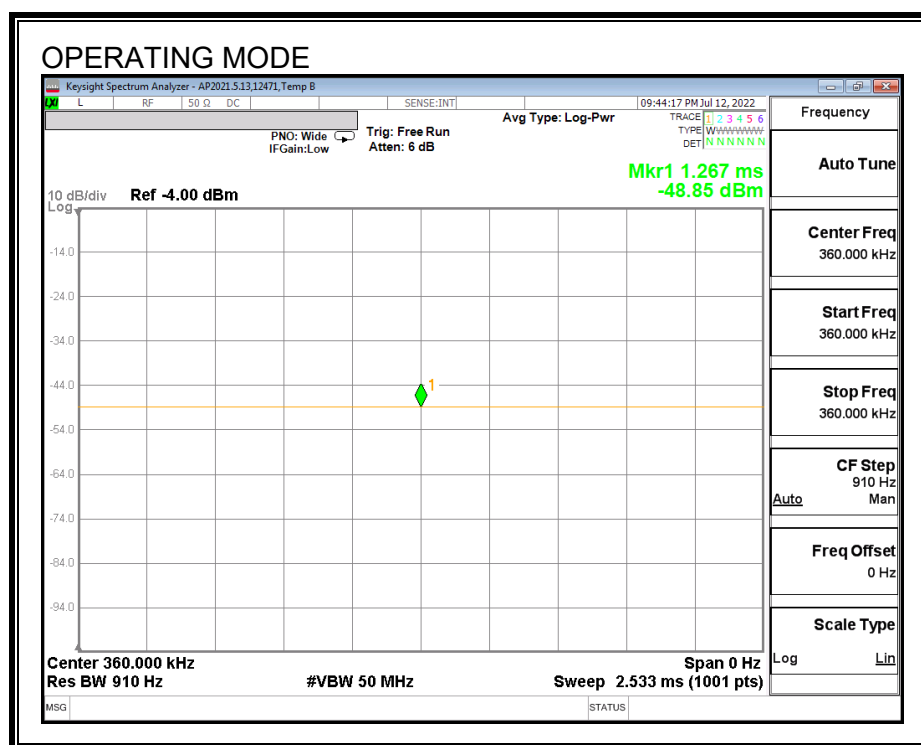
None; for reporting purposes only.

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)
Operating	100.00	100.00	1.00	100.00%	0.00



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.

Configuration # 2 Summary Table			
	Model No.	E-Field (V/m)	H-Field (A/m)
Parent Model	A2632	8.951	0.993
Variant Model	A2885	7.453	0.942
	A2886	6.998	0.921
	A2887/AA2888	7.782	0.940

9.1.1. MODEL A2632**RESULTS**

ID:	12471	Date:	7/11/2022
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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	8.178	1.33%	1.63	0.286	17.55%

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	8.951	1.46%	1.63	0.993	60.92%

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	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	Operating Real Product (Power <25% Charging)	0	614	S1	0.403	100	0.403	1.63	S1	0.060	100	0.060	
				S2	0.524		0.524		S2	0.049		0.049	
				S3	0.473		0.473		S3	0.077		0.077	
				S4	0.450		0.450		S4	0.051		0.051	
				Bottom	8.010		8.010		Bottom	0.073		0.073	
				Top	3.049		3.049		Top	0.049		0.049	
				Max	8.010		8.010		Max	0.077		0.077	
				S1	0.441		100		0.441	S1		0.286	100
	S2			0.655	0.655	S2			0.051	0.051			
	S3			0.485	0.485	S3			0.239	0.239			
	S4			0.447	0.447	S4			0.055	0.055			
	Bottom			8.178	8.178	Bottom			0.128	0.128			
	Top			3.541	0.056	Top			0.056	0.056			
	Max			8.178	8.178	Max			0.128	0.128			
	S1			0.418	100	0.418			S1	0.240	100	0.240	
	S2			0.485		0.485	S2		0.047	0.047			
	S3			0.388		0.388	S3		0.185	0.185			
	S4			0.391		0.391	S4		0.065	0.065			
	Bottom			7.591		7.591	Bottom		0.242	0.242			
	Top			2.793		2.793	Top		0.056	0.056			
	Max			7.591		7.591	Max		0.242	0.242			

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	0.403			0.403	1.63	S1	0.346			0.346
				S2	0.453			0.453		S2	0.047			0.047
				S3	0.473			0.473		S3	0.326			0.326
				S4	0.391			0.391		S4	0.065			0.065
				Bottom	7.845			7.845		Bottom	0.284			0.284
				Top	1.787			1.787		Top	0.082			0.082
				Max	7.845			7.845		Max	0.346			0.346
				S1	0.674			0.674		S1	0.353			0.353
	Operating Real Product (Power <25% Charging) (2mm Airgap & 2mm Shift to the Top)			S2	0.430			0.430		S2	0.099			0.099
				S3	0.407			0.407		S3	0.254			0.254
				S4	0.441			0.441		S4	0.101			0.101
				Bottom	6.967			6.967		Bottom	0.780			0.780
				Top	1.877			1.877		Top	0.089			0.089
				Max	6.967			6.967		Max	0.780			0.780
				S1	0.403			0.403		S1	0.352			0.352
				S2	0.499			0.499		S2	0.068			0.068
	Operating Real Product (Power 25% Charging) (2mm Airgap & 2mm Shift to the Bottom)			S3	0.660			0.660		S3	0.472			0.472
				S4	0.391			0.391		S4	0.099			0.099
				Bottom	6.977			6.977		Bottom	0.573			0.573
				Top	1.772			1.772		Top	0.078			0.078
				Max	6.977			6.977		Max	0.573			0.573
				S1	0.467			0.467		S1	0.237			0.237
				S2	0.466			0.466		S2	0.047			0.047
				S3	0.628			0.628		S3	0.222			0.222
	Operating Real Product (Power ~ 25% - 70% Charging) (2mm Airgap at Center)			S4	0.410			0.410		S4	0.055			0.055
				Bottom	8.285			8.285		Bottom	0.180			0.180
				Top	2.445			2.445		Top	0.063			0.063
				Max	8.285			8.285		Max	0.180			0.180
				S1	0.833			0.833		S1	0.513			0.513
				S2	0.414			0.414		S2	0.126			0.126
				S3	0.473			0.473		S3	0.337			0.337
				S4	0.409			0.409		S4	0.111			0.111
	Operating Real Product (Power ~ 25% - 70% Charging) (2mm Airgap & 2mm Shift to the Top)			Bottom	8.951			8.951		Bottom	0.993			0.993
				Top	2.512			2.512		Top	0.097			0.097
				Max	8.951			8.951		Max	0.993			0.993
				S1	0.571			0.571		S1	0.340			0.340
				S2	0.622			0.622		S2	0.090			0.090
				S3	0.760			0.760		S3	0.354			0.354
				S4	0.480			0.480		S4	0.080			0.080
				Bottom	8.812			8.812		Bottom	0.619			0.619
	Operating Real Product (Power ~ 25% - 70% Charging) (2mm Airgap & 2mm Shift to the Bottom)			Top	2.731			2.731		Top	0.092			0.092
				Max	8.812			8.812		Max	0.619			0.619
				S1	0.394			0.394		S1	0.346			0.346
				S2	0.441			0.441		S2	0.047			0.047
				S3	0.400			0.400		S3	0.321			0.321
				S4	0.391			0.391		S4	0.073			0.073
				Bottom	7.194			7.194		Bottom	0.299			0.299
				Top	1.899			1.899		Top	0.072			0.072
	Operating Real Product (Power >75% Charging) (2mm Airgap & 2mm Shift to the Top)			Max	7.194			7.194		Max	0.346			0.346
				S1	0.603			0.603		S1	0.422			0.422
				S2	0.399			0.399		S2	0.113			0.113
				S3	0.403			0.403		S3	0.265			0.265
				S4	0.387			0.387		S4	0.098			0.098
				Bottom	7.206			7.206		Bottom	0.961			0.961
				Top	1.869			1.869		Top	0.114			0.114
				Max	7.206			7.206		Max	0.961			0.961
	Operating Real Product (Power >75% Charging) (2mm Airgap & 2mm Shift to the Bottom)			S1	0.437			0.437		S1	0.298			0.298
				S2	0.479			0.479		S2	0.103			0.103
				S3	0.564			0.564		S3	0.352			0.352
				S4	0.416			0.416		S4	0.088			0.088
				Bottom	8.477			8.477		Bottom	0.623			0.623
				Top	2.140			2.140		Top	0.080			0.080
				Max	8.477			8.477		Max	0.623			0.623

Configuration #2 H Field in 2cm increment

Note: Please refers to simulation report from SAR.

9.1.2. MODEL A2885**RESULTS**

ID:	12471	Date:	7/12/2022
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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	7.453	1.21%	1.63	0.942	57.79%

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	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 ~ 25% - 70% Charging) (2mm Airgap & 2mm Shift to the Top)	0	614	S1	0.628	100	0.628	1.63	S1	0.462	100	0.462	
				S2	0.437		0.437		S2	0.117		0.117	
				S3	0.420		0.420		S3	0.358		0.358	
				S4	0.406		0.406		S4	0.109		0.109	
				Bottom	7.453		7.453		Bottom	0.942		0.942	
				Top	1.668		1.668		Top	0.097		0.097	
				Max	7.453		7.453		Max	0.942		0.942	

9.1.3. MODEL A2886**RESULTS**

ID:	12471	Date:	7/12/22
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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	6.998	1.14%	1.63	0.921	56.50%

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	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 ~< 25% Charging) (2mm Airgap at Center)	0	614	S1	0.660	100	0.660	1.63	S1	0.518	100	0.518
				S2	0.485		0.485		S2	0.145		0.145
				S3	0.449		0.449		S3	0.272		0.272
				S4	0.391		0.391		S4	0.122		0.122
				Bottom	6.998		6.998		Bottom	0.921		0.921
				Top	2.087		2.087		Top	0.093		0.093
				Max	6.998		6.998		Max	0.921		0.921

9.1.4. MODEL A2887/A2888**RESULTS**

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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	7.782	1.27%	1.63	0.940	57.67%

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		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 ~ 25% - 70% Charging) (2mm Airgap & 2mm Shift to the Top)	0	614	S1	0.511	100	0.511	1.63	S1	0.462	100	0.462
				S2	0.485		0.485		S2	0.112		0.112
				S3	0.511		0.511		S3	0.428		0.428
				S4	0.435		0.435		S4	0.106		0.106
				Bottom	7.782		7.782		Bottom	0.940		0.940
				Top	1.978		1.978		Top	0.094		0.094
				Max	7.782		7.782		Max	0.940		0.940

10. SETUP PHOTO

Please see setup photo report 14040868-EP1V1

END OF REPORT