

**FCC 47 CFR § 2.1093**

**SAR REPORT (WPT evaluation)  
FOR**

**Wireless Charger + NFC**

**MODEL NUMBER: WCMIT31A**

**FCC ID : 2A6WXWCMIT31A**

**REPORT NUMBER: S-4791776982-S1V3**

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**TL-637**



**Revision History**

Rev.	Date	Revisions	Revised By
V1	2025-07-10	Initial Issue	--
V2	2025-08-01	Revised operating frequency in Sec.8 Deleted the contents of no. 3 in Sec.8	Jeongyeon Won
V3	2025-09-03	Deleted the Direct exposure mode in Sec.6, Sec.7 and Sec.11 Added the test result in Sec.9 Added the equipment list in Sec.4.3 Revised the test result in Sec11.3	Jeongyeon Won

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## 1. Attestation of SAR Results

Applicant Name	BH EVS Co.,Ltd
FCC ID	2A6WXWCMIT31A
Model Number	WCMIT31A
Applicable Standards	FCC 47 CFR § 2.1093 KDB 680106 D01 RF Exposure Wireless Charging Apps
Assessment method	Basic restriction evaluation
	SAR Limit
	1g SAR (W/kg)
General population / Uncontrolled exposure	1.6
RF exposure conditions	The highest SAR Results
	1g SAR (W/kg)
SAR (=at 0 cm test distance)	<0.01
Date Tested	2025-05-08 to 2025-09-01
Test Results	Pass
<p>UL Korea, Ltd. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Korea, Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.</p> <p><b>Note:</b> 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 Korea, Ltd. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Korea, Ltd. 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 IAS, any agency of the Federal Government, or any agency of any government</p>	
Approved & Released By:	Prepared By:
	
Justin Park Operations Leader UL Korea, Ltd. Suwon Laboratory	Jeongyeon Won Laboratory Engineer Associate UL Korea, Ltd. Suwon Laboratory

## 2. Test Specification, Methods and Procedures

The tests documented in this report were performed in accordance with FCC 47 CFR Parts 1.1310c), 2.1091, 2.1093, IEEE Std C95.1-2019, IEEE Std C95.3-2021 and the following FCC Published RF exposure KDB procedures:

- 447498 D04 Interim General RF Exposure Guidance
- 680106 D01 Wireless Power Transfer v04

In addition to the above, the following information was used:

- DASY8 Modules WPT System Handbook (SW Module WPT V2.6)

## 3. Facilities and Accreditation

The test sites and measurement facilities used to collect data are located at

Suwon
SAR 1 Room

UL Korea, Ltd. is accredited by IAS, Laboratory Code TL-637.

The full scope of accreditation can be viewed at;

<https://www.iasonline.org/wp-content/uploads/2017/05/TL-637-cert-New.pdf>.

## 4. DASY module WPT Test System & Test equipment

### 4.1 E-field and H-field measurement System

DASY system Module WPT - MAGPy is optimized for evaluation of compliance for wireless power transfer (WPT) systems and any other sources operating in the 3kHz - 10MHz frequency range. Module WPT V2.6 is compatible with the DASY systems and in addition has been extended for easy evaluations of pulsed sources.

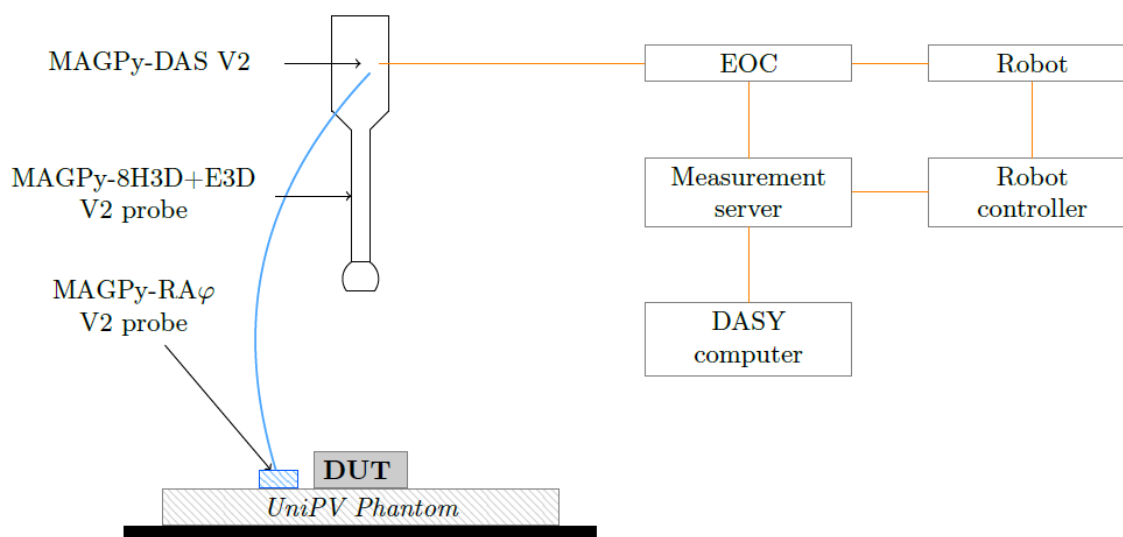


Figure : Typical measurement setup with DASY system Module WPT-MAGPy

**DASYsystem Module WPT – MAGPy's Specifications**

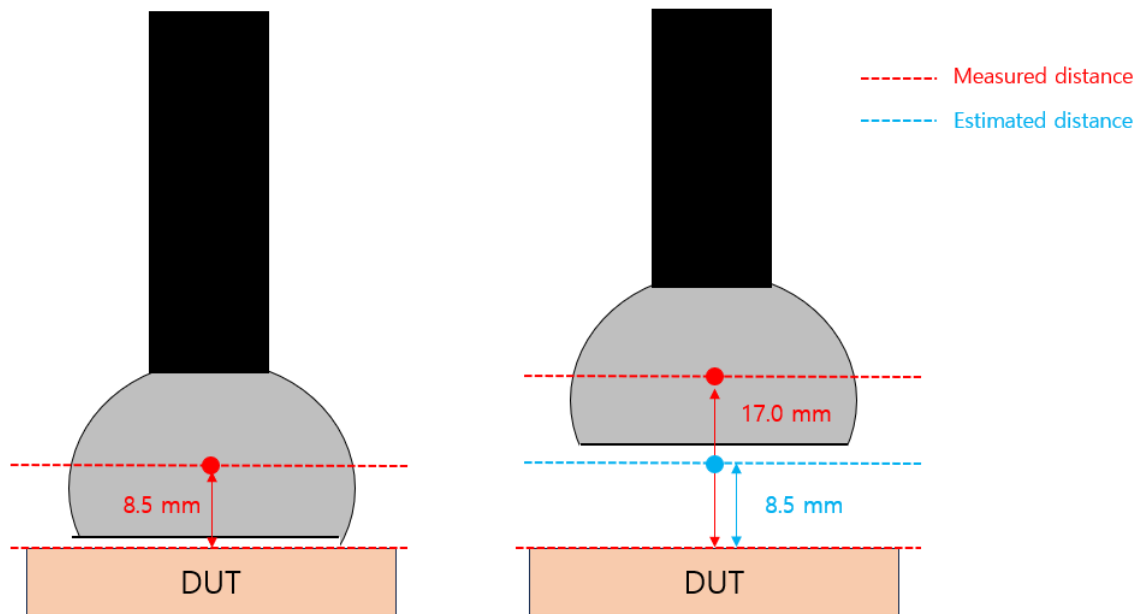
System	<p>DASY8 Module WPT is composed of the isotropic probe MAGPy-8H3D+E3D Version 2, the reference probe (MAGPy-RAφ), and the data acquisition system (MAGPy-DAS) mounted to the DASY8 robot via the emergency stop (MAGPy-ES). It measures the incident electric and magnetic fields (E-Field, H-Field) in a volume from the surface of the DUT using advanced field reconstructions to obtain a high-resolution (mm range) field distribution. The induced electric (E-) field distributions and specific absorption rate (SAR) are assessed with <a href="#">Sim4Life's Quasi-Static EM Solver (P-EM-QS)</a> using only the measured data. At each probe location, eight sets of isotropic H-field values and one set of isotropic E-field values are acquired in parallel. The dedicated graphical user interface (GUI) fully automates the testing workflow.</p>
Applications	<p>Laboratory evaluation of WPT systems and any other local electromagnetic source not requiring magnetic (H-) field volume scans exceeding 2000 mm × 1000 mm × 1500 mm:</p> <ul style="list-style-type: none"> <li>Assessment of high-resolution H-field distribution (3 kHz – 10 MHz)</li> <li>Assessment of high-resolution E-field distribution (3 kHz – 10 MHz)</li> <li>Determination of the induced field and SAR distribution in the standard phantom (3 kHz – 4 MHz)</li> <li>Demonstration of compliance (3 kHz – 4 MHz) with international standards and national regulations, e.g., IEC PAS 63184, FCC KDB 680106 D01, ISED Canada SPR-002</li> </ul>
Basic Components	<p>The basic components of DASY8/6 Module WPT are:</p> <p><a href="#">Platform and DASY8 TX2-90XL Robot</a></p> <ul style="list-style-type: none"> <li><a href="#">DASY8 Measurement Server</a></li> <li><a href="#">EOC8</a></li> <li><a href="#">Light-Beam Unit</a></li> <li><a href="#">Quick Adapter Change System (QACSV1)</a></li> <li><a href="#">DASY8 PC</a></li> </ul>
MAGPy-DAS	<p>The MAGPy-DAS includes:</p> <ul style="list-style-type: none"> <li>27 14-bit ADC channels with 25 MSPs</li> <li>Peak detection stage</li> <li>Hardware supervising unit</li> <li>Data transfer to the backend</li> <li>22 tap FIR filter</li> </ul>
MAGPy-RAφV2	<p>Specifications of the MAGPy-RAφ reference amplitude and phase probe:</p> <ul style="list-style-type: none"> <li>Frequency range: 3 kHz – 10 MHz</li> <li>Dynamic range: 0.1 A/m – 3200 A/m (0.12 μT – 4 mT)</li> <li>Loop coil area: 18.9 cm<sup>2</sup></li> <li>Sensor size: 51 mm x 51 mm x 0.2 mm</li> </ul>

MAGPy-8H3D+E3D V2	<p>The MAGPy-8H3D+E3D probe consists of eight isotropic H-field sensors and one isotropic E-field sensor:</p> <p>Probe design:</p> <ul style="list-style-type: none"><li>• Probe length: 335 mm</li><li>• Probe tip diameter: 60 mm</li><li>• 8H3D: eight isotropic 1 cm<sup>2</sup>-H-field sensors, arranged at the corners of a 22 mm cube</li><li>• First H-field sensor plane: 7.5 mm from the probe tip</li><li>• E3D: one isotropic E-field sensor (dipole / monopole) (arm length: 50mm)</li></ul> <p>Sensor specifications:</p> <ul style="list-style-type: none"><li>• Frequency range: 3 kHz – 10 MHz</li><li>• H-field dynamic range: 0.1 A/m – 3200 A/m (0.12 <math>\mu</math>T – 4 mT)</li><li>• H-field extrapolation uncertainty: 0.6 dB (<math>k = 2</math>)</li><li>• E-field dynamic range: 0.08 V/m – 2000 V/m</li></ul>
Software	<p>Software components:</p> <ul style="list-style-type: none"><li>• DASY8 Module WPT application programming interface (API)</li><li>• WPT /6backend</li><li>• Jupyter Notebook GUI</li><li>• Sim4Life plugin (vector potential reconstruction, P-EM-QS solver)</li></ul>

#### 4.1.1 Incident E-field and H-field measurement & extrapolation using MAGPy probe.

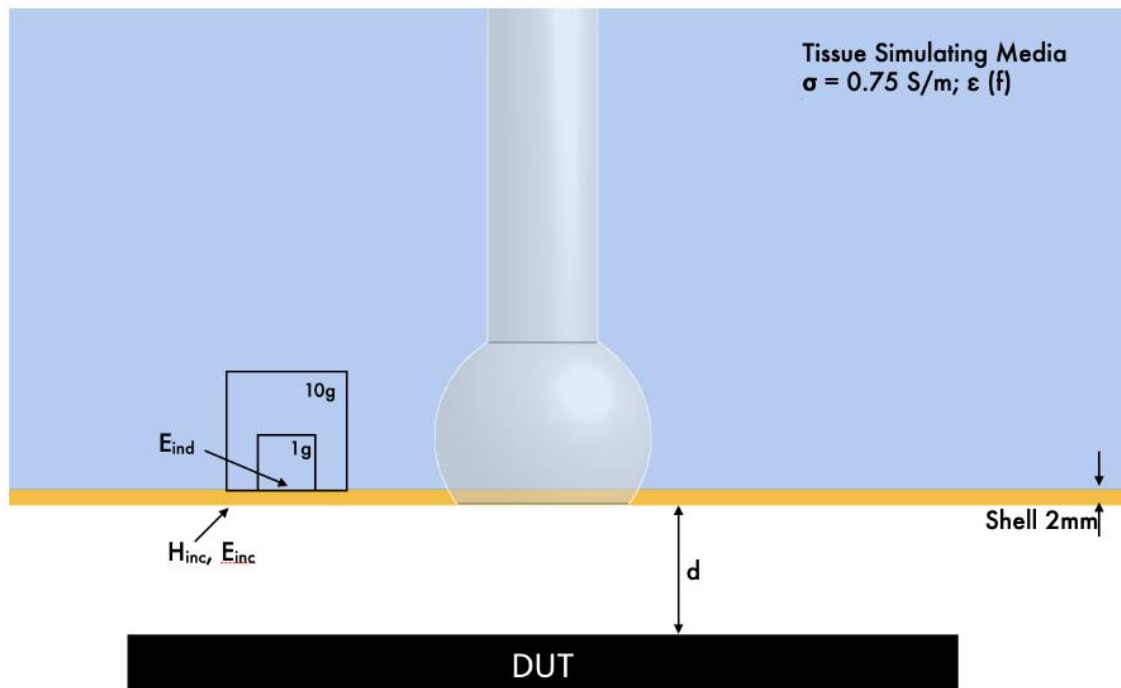
MAGPy probe can measured H-field strength at 8.5 mm distance from Probe's H-field sensor to DUT's surface. And it is possible to Extrapolated the H-field strength of 0.0 mm distance using Sim4Life WPT software. And E-field also Provides a value of 0.0 mm distance through Sim4Life WPT software(MQS slover).

In order to additionally apply to estimated 0mm test data, we referred to Section 3.3 of KDB 680106 D01 v04 and compared to both measured data and estimated data at 8.5mm.



Both results should be within 30% at 8.5 mm distance according to KDB 680106 D01v04 guide.

## 4.2 Simulated Internal E-field and SAR based on DASY module WPT S/W



Distance used in the tables for simulation and compliance evaluation results is defined as the spacing between the top surface of the DUT and the bottom surface of the fictive phantom shell (with a thickness of 2 mm). In this case, the evaluation is made at distance  $d$ . Typically  $d = 0$ , i.e., at the DUT surface. The evaluation locations of the incident E-/H-fields as well as the internal E field and SAR are also illustrated. Finally, Both internal E field and SAR are simulated through incident E-/H-field.

## 4.3 Test Equipment

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal Date	Cal. Due Date
Probe	SPEAG	MAGPy-8H3D+E3D	3071	2024-07-04	2025-07-04
				2025-08-12	2026-08-12
	SPEAG	MAGPy-DAS	2050	2024-07-04	2025-07-04
				2025-08-12	2026-08-12
System verification Source	SPEAG	V-Coil350/85	1019	2024-10-18	2025-10-18
				2025-08-15	2026-08-15

## 5. Measurement & Simulation Uncertainty

### 5.1 Incident E-/H-field Measurement Uncertainty

DASY8 Uncertainty Budget for Peak Incident <i>H</i> -field according to IEC/IEEE 63184						
Item	Error Description	Unc. Value (±dB)	Probab. Distr.	Div.	( $c_i$ )	Std. Unc. (±dB)
<b>Measurement system</b>						
1	Amplitude calibration uncertainty	0.35	N	1	1	0.35
2	Probe anisotropy	0.6	R	$\sqrt{3}$	1	0.35
3	Probe dynamic linearity	0.2	R	$\sqrt{3}$	1	0.12
4	Probe frequency domain response	0.3	R	$\sqrt{3}$	1	0.17
5	Probe frequency linear interp. fit	0.15	R	$\sqrt{3}$	1	0.09
6	Spatial averaging	0.1	R	$\sqrt{3}$	1	0.06
7	Parasitic E-field sensitivity	0.1	R	$\sqrt{3}$	1	0.06
8	Detection limit	0.15	R	$\sqrt{3}$	1	0.09
9	Readout electronics	0	N	1	1	0
10	Probe positioning	0.19	N	1	1	0.19
11	Repeatability	0.1	N	1	1	0.10
12	Surface field reconstruction	0.3	N	1	1	0.3
Combined uncertainty ( $k = 1$ )						0.67
<b>Expanded uncertainty (<math>k = 2</math>)</b>						<b>1.33 (16.6%)</b>

DASY8 Uncertainty Budget for Incident <i>E</i> -field according to IEC/IEEE 63184						
Item	Error Description	Unc. Value (±dB)	Probab. Distr.	Div.	( $c_i$ )	Std. Unc. (±dB)
<b>Measurement system</b>						
1	Amplitude calibration uncertainty	0.53	N	1	1	0.53
2	Probe anisotropy	0.8	R	$\sqrt{3}$	1	0.46
3	Probe dynamic linearity	1	R	$\sqrt{3}$	1	0.58
4	Probe frequency domain response	0.3	R	$\sqrt{3}$	1	0.17
5	Probe frequency linear interp. fit	0.15	R	$\sqrt{3}$	1	0.09
6	Parasitic H-field sensitivity	0.2	R	$\sqrt{3}$	1	0.12
7	Detection limit	0.15	R	$\sqrt{3}$	1	0.09
8	Readout electronics	0	N	1	1	0
9	Repeatability	0.1	N	1	1	0.10
Combined uncertainty ( $k = 1$ )						0.95
<b>Expanded uncertainty (<math>k = 2</math>)</b>						<b>1.89 (24.4%)</b>

#### Notes:

The uncertainties of Incident E/H field used the data provided by Equipment manufacturer.

## 5.2 Internal E-field and 1g SAR Simulation Uncertainty

DASY8 Uncertainty Budget for Peak Local $E_{ind}$ according to IEC/IEEE 63184						
Item	Error Description	Unc. Value ( $\pm$ dB)	Probab. Distr.	Div.	( $c_i$ )	Std. Unc. ( $\pm$ dB)
<b>Measurement system</b>						
1	Amplitude calibration uncertainty	0.35	N	1	1	0.35
2	Probe anisotropy	0.6	R	$\sqrt{3}$	1	0.35
3	Probe dynamic linearity	0.2	R	$\sqrt{3}$	1	0.12
4	Probe frequency domain response	0.3	R	$\sqrt{3}$	1	0.17
5	Probe frequency linear interp. fit	0.15	R	$\sqrt{3}$	1	0.09
6	Spatial averaging	0.1	R	$\sqrt{3}$	1	0.06
7	Parasitic $E$ -field sensitivity	0.1	R	$\sqrt{3}$	1	0.06
8	Detection limit	0.15	R	$\sqrt{3}$	1	0.09
9	Readout electronics	0	N	1	1	0
10	Probe positioning	0.19	N	1	1	0.19
11	Repeatability	0.1	N	1	1	0.1
12	Surface field reconstruction	0.3	N	1	1	0.3
<b>Numerical simulations</b>						
13	Grid resolution	0.09	R	$\sqrt{3}$	1	0.05
14	Tissue parameters	0	R	$\sqrt{3}$	1	0
15	Exposure position	0	R	$\sqrt{3}$	1	0
16	Source representation	0.27	N	1	1	0.27
17	Convergence and power budget	0	R	$\sqrt{3}$	1	0
18	Boundary conditions	0.1	R	$\sqrt{3}$	1	0.06
19	Phantom loading/backscattering	0.1	R	$\sqrt{3}$	1	0.06
Combined uncertainty ( $k = 1$ )						0.73
Expanded uncertainty ( $k = 2$ )						<b>1.45 (18.2%)</b>

DASY8 Uncertainty Budget for psSAR1 g according to IEC/IEEE 63184						
Item	Error Description	Unc. Value ( $\pm$ dB)	Probab. Distr.	Div.	( $c_i$ )	Std. Unc. ( $\pm$ dB)
<b>Measurement system</b>						
1	Amplitude calibration uncertainty	0.35	N	1	1	0.35
2	Probe anisotropy	0.6	R	$\sqrt{3}$	1	0.35
3	Probe dynamic linearity	0.2	R	$\sqrt{3}$	1	0.12
4	Probe frequency domain response	0.3	R	$\sqrt{3}$	1	0.17
5	Probe frequency linear interp. fit	0.15	R	$\sqrt{3}$	1	0.09
6	Spatial averaging	0.1	R	$\sqrt{3}$	1	0.06
7	Parasitic $E$ -field sensitivity	0.1	R	$\sqrt{3}$	1	0.06
8	Detection limit	0.15	R	$\sqrt{3}$	1	0.09
9	Readout electronics	0	N	1	1	0
10	Probe positioning	0.19	N	1	1	0.19
11	Repeatability	0.1	N	1	1	0.1
12	Surface field reconstruction	0.2	N	1	1	0.2
<b>Numerical simulations</b>						
13	Grid resolution	0.02	R	$\sqrt{3}$	1	0.01
14	Tissue parameters	0	R	$\sqrt{3}$	1	0
15	Exposure position	0	R	$\sqrt{3}$	1	0
16	Source representation	0.09	N	1	1	0.09
17	Convergence and power budget	0	R	$\sqrt{3}$	1	0
18	Boundary conditions	0.1	R	$\sqrt{3}$	1	0.06
19	Phantom loading/backscattering	0.1	R	$\sqrt{3}$	1	0.06
Combined uncertainty ( $k = 1$ )						0.63
Expanded uncertainty ( $k = 2$ )						<b>1.27 (33.9%)</b>

### Notes:

The uncertainties of Internal E field and 1g SAR used the data provided by Equipment manufacturer.

## 6. DUT Information

This device is a Wireless Charger for a phone within a vehicle, and consists of 1 coil antenna. The device operates at 128 kHz. The device is transmitting at maximum output power when testing is performed. The test configuration for antenna is listed at Section 7, and for detail of DUT information refer to operational description document.

There are one applicable test mode : Charge mode

- Charger mode (128 kHz) – charging is actively on applied to the device.

## 7. RF Exposure Conditions (Test Configurations)

RF Exposure Conditions	Test equipment/Antenna	Mode	Test configurations	E-H field and SAR evaluation distance	Note.
SAR & MPE	Wireless Charger	Charge Mode	Front	0 cm	
			Top	0 cm	
			Bottom	0 cm	
			Left	0 cm	
			Right	0 cm	

### Notes:

1. MPE and SAR test are considered at antenna's closest surface. Detail of test positions are refer to Appendix A.
2. This model does not support Direct Exposure mode (Standby mode) and only operates in Charge mode.

## 8. KDB 680106 D01 Equipment Approval Considerations

Requirement	Device informations
(1) Power transfer frequency is less than 1 MHz	Yes, the operating frequencies are 128kHz.
(2) Output power from each primary coil is less than or equal to 15 Watts.	Yes. Maximum power is 15.0 Watts.
(3) Client device is placed directly in contact with the transmitter.	Yes.
(4) Mobile exposure(2.1091) condition or Portable exposure(2.1093) condition	Portable exposure condition (2.1093)
(5) E/H field measurement test distance.	0cm (using extrapolation).
(6) SAR simulation requirement (NUMSIM)	Yes. SAR simulation is required. (If MPE limit is not satisfy, then SAR simulation is alternative according to KDB 680106 D01.)

## 9. System verification



System check performed using 85kHz verification source according to test system and procedure Manufacturer guide(DASY8 Modules WPT System Handbook (SW Module WPT V2.6)). And The deviation of measured values from the target values of calibration report should be less than the expanded uncertainty.

### Reference Values

The reference values can be obtained from the calibration certificate of system verification source.

Verification Source	Serial No.	Cal. Date	Cal.due date	Target values at 0mm distance		
				Measured/Extrapolated	Simulated (Local)	
				H-field (A/m)	Internal E field (V/m)	1g SAR (W/kg)
V-coil350/85	1019	2024-10-18	2025-10-18	217.00	3.56	0.00711
V-coil350/85	1019	2025-08-15	2026-08-15	220.00	3.62	0.00736

### System verification Results

#### SAR 1 Room

Date Tested	System Source		H-field (A/m)		Deviation (±16.6%)	Internal E field (V/m)		Deviation (±18.2%)	1g SAR (W/kg)		Deviation (±33.9%)	Plot No.
	Type	Serial #	Test results	Target		Test results	Target		Test results	Target		
2025-05-08	V-coil350/85	1019	205.00	217.00	-5.53	3.46	3.56	-2.81	0.00678	0.00711	-4.64	1
2025-06-09	V-coil350/85	1019	209.00	217.00	-3.69	3.44	3.56	-3.37	0.00679	0.00711	-4.50	
2025-06-13	V-coil350/85	1019	216.00	217.00	-0.46	3.49	3.56	-1.97	0.00698	0.00711	-1.83	
2025-06-16	V-coil350/85	1019	210.00	217.00	-3.23	3.44	3.56	-3.37	0.00676	0.00711	-4.92	
2025-06-18	V-coil350/85	1019	207.00	217.00	-4.61	3.44	3.56	-3.37	0.00672	0.00711	-5.49	
2025-09-01	V-coil350/85	1019	212.00	220.00	-3.64	3.47	3.62	-4.14	0.00686	0.00736	-6.79	2

#### Notes:

The deviation of measured values from the target values of calibration report should be less than the expanded uncertainty.

## 10. Maximum Permissive Exposure test Results

### 10.1 FCC Limit and Summary

§ 1.1310 The criteria listed in Table 1 shall be used to evaluate the environmental impact if 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 to § 1.1310(e)(1) – Limits for Maximum Permissible Exposure (MPE)

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)
<b>(A) Limits for Occupational/Controlled Exposures</b>				
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>(B) Limits for General Population/Uncontrolled Exposure</b>				
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.

According to KDB 680106 D01 Wireless Power Transfer v04 section 3.2 : Accordingly, § 2.1091-Mobile devices, the MPE limits between 100 kHz to 300 kHz are to be considered the same as those at 300 kHz in Table 1 of § 1.1310, that is, 614 V/m and 1.63 A/m, for the electric field and magnetic field, respectively. Per FCC guidance, of DUT is unable to show compliance with E and H-field regulatory limits. SAR result may be used to show compliance against the FCC SAR regulatory limit. This is only applicable if the measurement system used is verified in accordance with KDB 680106 D01.

## 11. RF exposure test results

### 11.1. MPE results

Antennas	Mode	Test configurations	Simulated Distance (cm)	Measured E-field (V/m)	E-Field Limit (V/m)	Measured H-field (A/m)	H-Field Limit (A/m)	Plot No.
Wireless Charger	Charging mode	Front	0.0	96.50	614.00	5.13	1.63	1
		Top	0.0	61.30		5.82		
		Bottom	0.0	17.50		6.30		
		Left	0.0	77.60		4.90		
		Right	0.0	70.80		4.94		

### 11.2. SAR results (1g SAR)

Antennas	Mode	Test configurations	Simulated Distance (cm)	1g SAR results (mW/kg)	1g SAR results (W/kg)	ISED SAR Limit (W/kg)	Plot No.
Wireless Charger	Charging mode	Front	0.0	0.000	0.000000	1.6	1
		Top	0.0	0.001	0.000001		
		Bottom	0.0	0.000	0.000000		
		Left	0.0	0.000	0.000000		
		Right	0.0	0.000	0.000000		

### 11.3. Extrapolation Verification results

Antennas	Mode	Test configurations	Frequency (kHz)	Verification No.	Test Distance (cm)	Measured H-field(A.m) at 8.5mm	Extrapolated H-field(A/m) at 8.5mm	Devuation (%)	Plot No.
Wireless Charger	Charge mode	Front	128.0	A	8.5	1.86	-	-29.0	2
		Front	128.0	B	17.0	-	1.3		3

#### Notes:

The deviation in results between Verification A and Verification B must be within  $\pm 30\%$  for the system to be successfully validated per KDB 680106 D01

## **Appendixes**

**Refer to separated files for the following appendixes.**

**S-4791776982-S1 FCC SAR App A Test photos**

**S-4791776982-S1 FCC SAR App B Test Plots**

**S-4791776982-S1 FCC SAR App C System Plots**

**S-4791776982-S1 FCC SAR App D Probe Certi**

**S-4791776982-S1 FCC SAR App E Source Certi**

**END OF REPORT**