TEST REPORT

Report Number: 15580305-S1V2

Applicant	:	PANASONIC CORPORATION OF NORTH AMERICA TWO RIVERFRONT PLAZA, NEWARK, NJ 07102-5490
Model	:	AH2302
FCC ID	:	ACJ932AH2302
EUT Description	:	WIRELESS CHARGER
Test Standard(s)	:	FCC 47 CFR PART 1 SUBPART I FCC 47 CFR PART 2 SUBPART J

Date Of Issue:
2025-03-17

Prepared by:
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CERT #0751.05

Revision History

Rev.	Issue Date	Revisions	Revised By
V1	2025-03-06	Initial Issue	---
V2	2025-03-17	Section 1: Updated Test Results Appendix A: Fixed Typo	Coltyce Sanders

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: PANASONIC CORPORATION OF NORTH AMERICA

EUT DESCRIPTION: WIRELESS CHARGER

MODEL NUMBER: AH2302

SAMPLE RECEIPT DATE: 2025-02-04

DATE TESTED: 2025-02-04 TO 2025-02-28

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
FCC 47 CFR PART 1 SUBPART I & PART 2 SUBPART J	COMPLIES

UL Verification Services Inc. 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 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.

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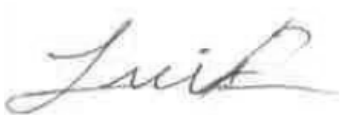

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2. TEST METHODOLOGY

This report contains data provided by the customer which can impact the validity of results. UL Verification Services Inc. is only responsible for correctly integrating customer-provided data with measurements performed by UL Verification Services Inc.

All testing / calculations were made in accordance with.

- FCC KDB 447498 D01 General RF Exposure Guidance
- FCC KDB 447498 D03 Supplement C Cross-Reference
- FCC KDB 680106 D01 Wireless Power Transfer
- FCC Parts 1.1310, 2.1091, 2.1093, IEEE Std C95.1-2005, IEEE Std C95.3-2002

3. FACILITIES AND ACCREDITATION

UL Verification Services Inc. 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
☐	Building 1: 47173 Benicia Street, Fremont, CA 94538, USA	US0104	2324A	550739
☒	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA			
☐	Building 3: 843 Auburn Court, Fremont, CA 94538, USA			
☐	Building 4: 47658 Kato Rd, Fremont, CA 94538, USA			
☐	Building 5: 47670 Kato Rd, Fremont, CA 94538, USA			

4. DECISION RULES AND MEASUREMENT UNCERTAINTY (RF EXPOSURE)

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.)

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4.3. MEASUREMENT UNCERTAINTY

4.3.1. Incident E-/H-field Measurement Uncertainty

DASY8 Uncertainty Budget for Peak Incident H-field
according to IEC/IEEE 63184

Item	Error Description	Unc. Value (±dB)	Probab. Distr.	Div.	(c_i)	Std. Unc. (±dB)
Measurement system						
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
Expanded uncertainty ($k = 2$)						**1.33 (16.6%)**

DASY8 Uncertainty Budget for Incident E-field
according to IEC/IEEE 63184

Item	Error Description	Unc. Value (±dB)	Probab. Distr.	Div.	(c_i)	Std. Unc. (±dB)
Measurement system						
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
Expanded uncertainty ($k = 2$)						**1.89 (24.4%)**

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

4.3.2. 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 (±dB)	Probab. Distr.	Div.	(c_i)	Std. Unc. (±dB)
Measurement system						
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
Numerical simulations						
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 ($k = 2$)						**1.45 (18.2%)**

DASY8 Uncertainty Budget for psSAR1 g
according to IEC/IEEE 63184

Item	Error Description	Unc. Value (±dB)	Probab. Distr.	Div.	(c_i)	Std. Unc. (±dB)
Measurement system						
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
Numerical simulations						
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 ($k = 2$)						**1.27 (33.9%)**

Notes:

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

5. SUMMARY OF EUT RF EXPOSURE INFORMATION

Requirement	Device
(1) The power transfer frequency is below 1 MHz.	Yes. The transmits frequencies are 124.6 kHz 127.8 kHz, and 129.5 kHz
(2) The output power from each transmitting element (e.g., coil) is less than or equal to 15 watts.	Yes. The maximum power is 15W.
(3) A client device providing the maximum permitted load is placed in physical contact with the transmitter (i.e., the surfaces of the transmitter and client device enclosures need to be in physical contact)	Yes. The client device is placed directly in contact with the transmitter.
(4) Only § 2.1091-Mobile exposure conditions apply (i.e., this provision does not cover § 2.1093-Portable exposure conditions).	Yes. The transmitter is considered a mobile device but is less than 20cm from the user.
(5) The E-field and H-field strengths, at and beyond 20 cm surrounding the device surface, are demonstrated to be less than 50% of the applicable MPE limit, per KDB 447498, Table 1. These measurements shall be taken along the principal axes of the device, with one axis oriented along the direction of the estimated maximum field strength, and for three points per axis or until a 1/d (inverse distance from the emitter structure) field strength decay is observed. Symmetry considerations may be used for test reduction purposes. The device shall be operated in documented worst-case compliance scenarios (i.e., the ones that lead to the maximum field components), and while all the radiating structures (e.g., coils or antennas) that by design can simultaneously transmit are energized at their nominal maximum power.	N/A. Since we are testing at 0cm and using SAR to demonstrate the compliance.
(6) For systems with more than one radiating structure, the conditions specified in (5) must be met when the system is fully loaded (i.e., clients absorbing maximum power available), and with all the radiating structures operating at maximum power at the same time, as per design conditions. If the design allows one or more radiating structures to be powered at a higher level while other radiating structures are not powered, then those cases must be tested as well. For instance, a device may use three RF coils powered at 5 W, or one coil powered at 15 W: in this case, both scenarios shall be tested.	No. This transmitter only has one coil.

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6. EQUIPMENT UNDER TEST

6.1. DESCRIPTION OF EUT

This devices are Smart system for vehicle, and consists of 1 antenna. The antenna operates at 124.6 kHz, 127.8 kHz and 129.5 kHz, and the maximum output power operation was implemented for testing with Charge Mode, Search Mode, and Power Down Mode. The test configuration for each antenna is listed at Section 8, and for detail of DUT information refer to operational description document.

Charge Mode is when charging is actively on and applied to the device.

Search Mode is when the charging device is looking for device to enable charging.

Power Down Mode is when the load is removed from the charging device. The charging device will be actively looking for a load to charge for an hour, after which the charging device will power down.

6.2. WORST-CASE CONFIGURATION AND MODE

The following configurations were tested as worst-case position:

Antenna(s)	Mode	Test Position	Incident E Field, Incident H Field and SAR evaluation distance
Coil Antenna	Charge Mode	Test position 5	0 cm
	Search Mode	Test position 6	0 cm
	Power Down Mode	Test position 6	0 cm

Notes:

For the antenna, Incident E Field, Incident H Field and SAR testing are considered at the antenna's closest surface. For details of test positions, refer to Appendix A.

6.3. MEASUREMENT SETUP

6.3.1. 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.

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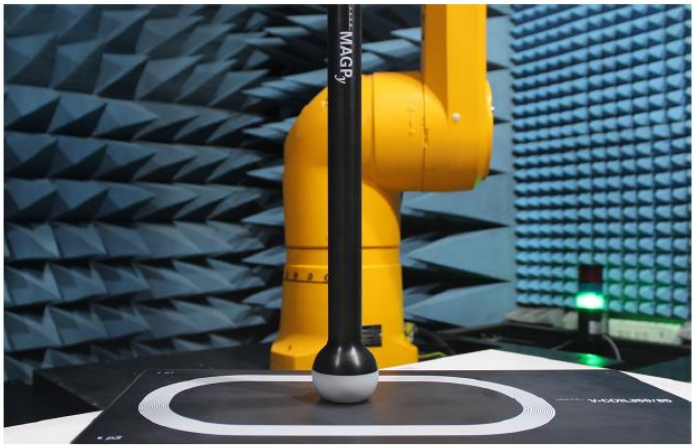


Figure : Typical measurement setup with DASY system Module WPT-MAGPy

DASY System Module WPT – MAGPy's Specifications

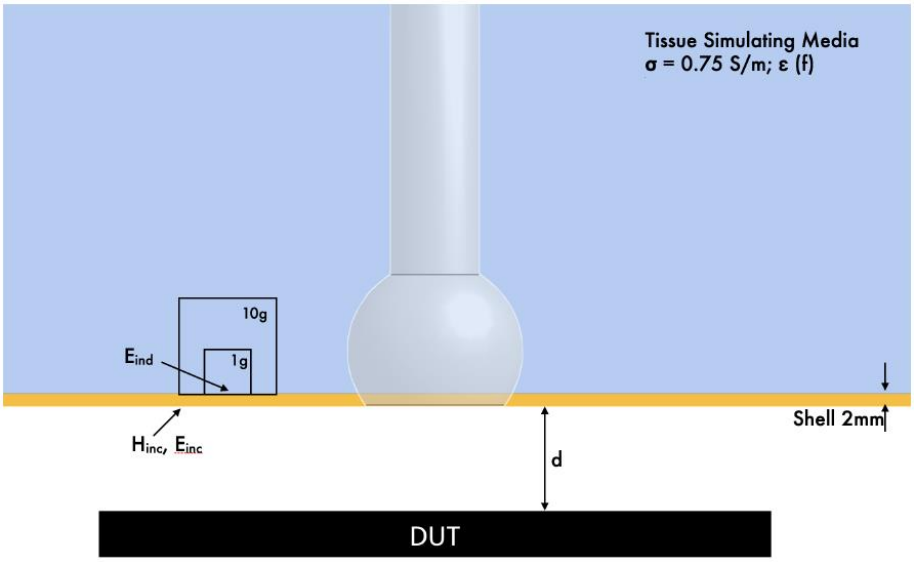
System	DASY8 Module WPT is composed of the isotropic probe MAGPy-8H3D+E3D Version 2, the reference probe (MAGPy-RAφ), and the data acquisition system (MAGPy-DAS) mounted to the DASY8 robot via the emergency stop (MAGPy-ES). It measures the incident electric and magnetic fields (E-Field, H-Field) in a 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 Sim4Life's Quasi-Static EM Solver (P-EM-QS) 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.
Applications	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: • Assessment of high-resolution H-field distribution (3 kHz – 10 MHz) • Assessment of high-resolution E-field distribution (3 kHz – 10 MHz) • Determination of the induced field and SAR distribution in the standard phantom (3 kHz – 4 MHz) • 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

Basic Components	The basic components of DASY8/6 Module WPT are: Platform and DASY8 TX2-90XL Robot • DASY8 Measurement Server • EOC8 • Light-Beam Unit • Quick Adapter Change System (QACSV1) • DASY8 PC
MAGPy-DAS V2	The MAGPy-DAS includes: • 27 14-bit ADC channels with 25 MSPs • Peak detection stage • Hardware supervising unit • Data transfer to the backend • 22 tap FIR filter
MAGPy-RAφV2	Specifications of the MAGPy-RAφ reference amplitude and phase probe: • Frequency range: 3 kHz – 10 MHz • Dynamic range: 0.1 A/m – 3200 A/m (0.12 µT – 4 mT) • Loop coil area: 18.9 cm^2 • Sensor size: 51 mm x 51 mm x 0.2 mm
MAGPy-8H3D+E3D V2	The MAGPy-8H3D+E3D V2 probe consists of eight isotropic H-field sensors and one isotropic E-field sensor: Probe design: • Probe length: 335 mm • Probe tip diameter: 60 mm • 8H3D: eight isotropic 1 cm^2-H-field sensors, arranged at the corners of a 22 mm cube • First H-field sensor plane: 7.5 mm from the probe tip • E3D: one isotropic E-field sensor (dipole / monopole) (arm length: 50mm) Sensor specifications: • Frequency range: 3 kHz – 10 MHz • H-field dynamic range: 0.1 A/m – 3200 A/m (0.12 µT – 4 mT) • H-field extrapolation uncertainty: 0.6 dB (k = 2) • E-field dynamic range: 0.08 V/m – 2000 V/m
Software	Software components: • DASY8 Module WPT application programming interface (API) • WPT /6backend • Jupyter Notebook GUI • Sim4Life plugin (vector potential reconstruction, P-EM-QS solver)

6.3.2. 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).

6.3.3. 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.

7. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was used for the tests documented in this report:

Name of Equipment	Manufactor	Type/ Model	Serial No.	Cal Date	Cal. Due Date
Probe	SPEAG	MAGPy-8H3D+E3D	3113	2024-08-15	2025-08-31
Probe	SPEAG	MAGPy-DAS	3095	2024-08-15	2025-08-31
System Verification Source	SPEAG	V-Coil50/400	1028	2024-05-27	2025-05-27

8. System Verification

System check performed using the 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 2mm distance		
				Measured/Extrapolated	Simulated (Local)	
				H-field (A/m)	Interanl E field (V/m)	1g SAR (W/kg)
V-coil50/400	1028	2024-05-27	2025-05-27	235.00	3.77	0.00530

System Verification Results

SAR Lab 2

Date Tested	System Source		H-field (A/m)		Deviation (±16.6%)	Internal E field (V/m)		Deviation (±18.2%)	1g SAR (mW/kg)		Deviation (±33.9%)	Plot No.
	Type	Serial #	Test results	Target		Test results	Target		Test results	Target		
2025-02-04	V-coil50/400	1028	222	235	-5.53	3.59	3.77	-4.77	4.83	5.30	-8.87	1
2025-02-27	V-Coil50/400	1028	210	235	-10.64	3.44	3.77	-8.75	4.44	5.30	-16.23	2

Note(s):

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

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 radiofrequency (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)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm^2)	Averaging time (minutes)
(i) Limits for Occupational/Controlled Exposure				
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
300-1,500			f/300	<6
1,500-100,000			5	<6
(ii) 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
30-300	27.5	0.073	0.2	<30
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

f = frequency in MHz. * = Plane-wave equivalent power density.

According to KDB 680106 D01 Wireless Power Transfer v04 section 3.2 : Accordingly, for § 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.

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9.1.1. MAXIMUM RESULT SUMMARY

Antenna(s)	Mode	Test Position	Frequency (kHz)	Simulated Distance (mm)	Measured Local E/H Ratio (Ω)	Local E/H Ratio Limit (Ω)	Measured E_{inc} (V/m)	E_{inc} -Field Limit (V/m)	Measured H_{inc} (A/m)	H_{inc} -Field Limit (A/m)	Measured 1-g SAR (W/kg)	FCC SAR Limit (W/kg)	Plot No.
Coil Antenna	Charge Mode	Test Position 1	124.6	0	19.639	37.7	3.26	614	0.60	1.63	0.00000002	1.600	
Coil Antenna	Charge Mode	Test Position 2	124.6	0	5.735	37.7	1.09	614	0.94	1.63	0.00000007	1.600	
Coil Antenna	Charge Mode	Test Position 3	124.6	0	25.638	37.7	1.8	614	0.16	1.63	0.00000000	1.600	
Coil Antenna	Charge Mode	Test Position 4	124.6	0	11.891	37.7	1.86	614	0.79	1.63	0.00000005	1.600	
Coil Antenna	Charge Mode	Test Position 5	124.6	0	27.173	37.7	31.7	614	4.400	1.63	0.00000062	1.600	
Coil Antenna	Search Mode	Test Position 6	124.6	0	0.242	37.7	15.8	614	528.000	1.63	0.00202000	1.600	
Coil Antenna	Power Down Mode	Test Position 6	124.6	0	0.33	37.7	**34.7**	614	**1262.000**	1.63	**0.01020000**	1.600	1
Coil Antenna	Charge Mode	Test Position 1	127.8	0	22.541	37.7	3.36	614	0.61	1.63	0.00000001	1.600	
Coil Antenna	Charge Mode	Test Position 2	127.8	0	9.275	37.7	1.55	614	0.89	1.63	0.00000006	1.600	
Coil Antenna	Charge Mode	Test Position 3	127.8	0	19.264	37.7	2.15	614	0.19	1.63	0.00000000	1.600	
Coil Antenna	Charge Mode	Test Position 4	127.8	0	11.048	37.7	1.86	614	0.75	1.63	0.00000003	1.600	
Coil Antenna	Charge Mode	Test Position 5	127.8	0	22.321	37.7	33.9	614	4.610	1.63	0.00000059	1.600	
Coil Antenna	Search Mode	Test Position 6	127.8	0	0.268	37.7	16.4	614	596.000	1.63	0.00212000	1.600	
Coil Antenna	Power Down Mode	Test Position 6	127.8	0	0.345	37.7	**35.3**	614	**1275.000**	1.63	**0.01020000**	1.600	2
Coil Antenna	Charge Mode	Test Position 1	129.5	0	24.367	37.7	2.93	614	0.46	1.63	0.00000001	1.600	
Coil Antenna	Charge Mode	Test Position 2	129.5	0	6.51	37.7	1.06	614	0.82	1.63	0.00000004	1.600	
Coil Antenna	Charge Mode	Test Position 3	129.5	0	22.063	37.7	2.26	614	0.19	1.63	0.00000000	1.600	
Coil Antenna	Charge Mode	Test Position 4	129.5	0	11.197	37.7	1.2	614	0.60	1.63	0.00000001	1.600	
Coil Antenna	Charge Mode	Test Position 5	129.5	0	29.381	37.7	**34.8**	614	3.350	1.63	0.00000053	1.600	3
Coil Antenna	Search Mode	Test Position 6	129.5	0	0.234	37.7	16.4	614	598.000	1.63	0.00245000	1.600	
Coil Antenna	Power Down Mode	Test Position 6	129.5	0	0.325	37.7	34.4	614	**1261.000**	1.63	**0.01060000**	1.600	4

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Appendixes

Refer to separated files for the following appendixes.

Appendix A: Setup Photos

Appendix B: System Verification Plots

Appendix C: Highest Test Plots

Appendix D: Probe Certificates

Appendix E: Verification source Certificate

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