

# Ottlite Technologies Inc.

# **TEST REPORT**

#### **SCOPE OF WORK**

FCC TESTING-L024

#### **REPORT NUMBER**

230517048SZN-001

#### **ISSUE DATE**

14 July 2023

# [REVISED DATE]

#### **PAGES**

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#### **DOCUMENT CONTROL NUMBER**

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### Ottlite Technologies Inc.

**Application** For Certification

**FCC ID: 2AI7B-L024** 

#### **LED table lamp with Wireless Charging**

Model: L024

Brand name: OttLite

#### **Transmitter**

Report No.: 230517048SZN-001

We hereby certify that the sample of the above item is considered to comply with the requirements of FCC Part 15, Subpart C for Intentional Radiator, mention 47 CFR [10-1-21]

Prepared and Checked by:	Approved by:	
Jeff Liang	Ryan Chen	_
Project Engineer	Project Engineer	
	Date: 14 July 2023	

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#### Intertek Testing Services Shenzhen Ltd. Longhua Branch

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# MEASUREMENT/TECHNICAL REPORT

Intertek Report No.: 230517048SZN-001

This report concerns (check one)	Original Grant X Class II Change
Equipment Type: <u>DCD - Part 15 Lo</u>	w Power Transmitter Below 1705 kHz
Deferred grant requested per 47 C	FR 0.457(d)(1)(ii)? Yes NoX
	If yes, defer until:
	date
Company Name agrees to notify the	
	date
of the intended date of announcer  Transition Rules Request per 15.37	nent of the product so that the grant can be issued on that date.  7? Yes NoX
If no, assumed Part 15, Subpart C provision.	for intentional radiator - the new 47 CFR [10-01-19] Edition]
Report prepared by:	
	Jeff Liang Intertek Testing Services Shenzhen Ltd. Longhua Branch 101, 201, Building B, No. 308 Wuhe Avenue, Zhangkengjing Community, GuanHu Subdistrict, LongHua District, ShenZhen. Tel: (86 755) 8614 0651 Fax: (86 755) 8601 6751

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1.0 Summary of Test Results

Applicant: Ottlite Technologies Inc.

Applicant Address: 1715 N Westshore Blvd STE 950 Tampa, FL 33607 United States

Manufacturer: Ottlite Technologies Inc.

Manufacturer Address: 1715 N Westshore Blvd STE 950 Tampa, FL 33607 United States

Model: L024

Intertek Report No.: 230517048SZN-001

FCC ID: 2AI7B-L024

TEST ITEM	REFERENCE	RESULTS
Power Line Conducted Emissions	15.207	Pass
Transmitter Radiated Emissions	15.209	Pass
Antenna Requirement	15.203	Pass (See Notes)

Notes: The EUT uses an Integral Antenna which in accordance to Section 15.203 is considered sufficient to comply with the provisions of this section.

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#### 2.0 General Description

#### 2.1 Product Description

The Equipment Under Test (EUT) is a LED table lamp with Wireless Charging with wireless charger function which operating in 111-205 kHz. The EUT is powered by DC 5V, 3A or 9V, 2.5A from Adapter adapter, the output of the wireless charger is 15W for mobile phones area and 5 W for earbuds area, and the output of USB port is DC 5V, 0.5A. For more detailed features description, please refer to the user's manual.

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Antenna Type: Integral Antenna (embedded coil antenna)

For electronic filing, the brief circuit description is saved with filename: descri.pdf.

#### 2.2 Related Submittal(s) Grants

This is an application for certification of the LED table lamp with Wireless Charging with wireless charging function portion.

#### 2.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.10 (2013). Radiated emission measurement was performed in Semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans were performed in the semi-anechoic chamber only to determine the worst-case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the "Justification Section" of this Application. All other measurements were made in accordance with the procedures in part 2 of CFR 47.

#### 2.4 Test Facility

The Semi-Anechoic chamber and shield room used to collect the radiated data and conducted data are Intertek Testing Services Shenzhen Ltd. Longhua Branch and located at 101, 201, Building B, No. 308 Wuhe Avenue, Zhangkengjing Community, GuanHu Subdistrict, LongHua District, ShenZhen. This test facility and site measurement data have been fully placed on file with File Number: CN1188.

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#### 3.0 System Test Configuration

#### 3.1 Justification

The system was configured for testing in a typical fashion (as a customer would normally use it), and in the confines as outlined in ANSI C63.10 (2013).

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The EUT was powered by an adapter AC 120V/60Hz input during the test. The test system was pre-scanning tested based on the consideration of following EUT operation mode. All designing schemes were tested, Only the worst-case data is shown in this report.

Pertest mode	Description
Mode 1	Standby mode
Mode 2	Mobile phone is charging at 1% battery power
Mode 3	Mobile phone is charging at 50% battery power
Mode 4	Mobile phone is charging at 99% battery power
Mode 5	Earbuds is charging at 1% battery power
Mode 6	Earbuds is charging at 50% battery power
Mode 7	Earbuds is charging at 99% battery power
Mode 8	Mobile phone+Earbuds is charging at 1% battery power
Mode 9	Mobile phone+Earbuds is charging at 50% battery power
Mode 10	Mobile phone+Earbuds is charging at 99% battery power

For maximizing emissions below 30 MHz, the EUT was rotated through 360°, the bottom of the loop antenna was placed 1 meter above the ground, and the antenna polarization was changed. For maximizing emission at and above 30 MHz, the EUT was rotated through 360°, the antenna height was varied from 1 meter to 4 meters above the ground plane, and the antenna polarization was changed. This step by step procedure for maximizing emissions led to the data report in Section 4.0.

The EUT and transmitting antenna was centered on the turntable.

The equipment under test (EUT) was configured for testing in a typical fashion (as a customer would normally use it). The EUT was mounted to a plastic stand if necessary and placed on the styrene turntable, which enabled the engineer to maximize emissions through its placement in the three orthogonal axes.

# 3.2 EUT Exercising Software N/A

#### 3.3 Special Accessories

There is no special accessories necessary for compliance of this product.

#### 3.4 Equipment Modification

Any modifications installed previous to testing by Ottlite Technologies Inc. will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Longhua Branch.

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### 3.5 Measurement Uncertainty

When determining of the test conclusion, the Measurement Uncertainty of test has been considered.

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Measurement Uncertainty	Uncertainty
Channel Bandwidth	±3.46%
Radiated emission (Up to 1GHz)	±4.8dB
AC Conducted emission	±3.6 dB
Temperature	±1°C
Humidity	±5%

## 3.6 Support Equipment List and Description

This product was tested in the following configuration:

Description	Manufacturer	Detail		
Mobile Phone	Samsung	S7		
Earbuds	Samsung (Provided by Intertek)	SM-R510		
USB cable	NIL (Provided by Intertek)	Unshielded, Length 80cm		
Cement resistor	NIL (Provided by Intertek)	10Ω		
Adapter	Tomax Technology (Dongguan) Co., Ltd.	Model No: TOUC60 Input: 100-240VAC 50/60Hz 0.7A Max Output: 5V=3A 15.0W or 9V=2.5A 22.5W		

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#### 4.0 Measurement Results

#### 4.1 Field Strength Calculation

The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below.

$$FS = RA + AF + CF - AG + PD + AV$$

where FS = Field Strength in  $dB\mu V/m$ 

RA = Receiver Amplitude (including preamplifier) in  $dB\mu V$ 

CF = Cable Attenuation Factor in dB

AF = Antenna Factor in dB

AG = Amplifier Gain in dB

PD = Pulse Desensitization in dB

AV = Average Factor in -dB

In the radiated emission table which follows, the reading shown on the data table may reflect the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows:

$$FS = RA + AF + CF - AG + PD + AV$$

#### Example

Assume a receiver reading of  $62.0dB\mu V$  is obtained. The antenna factor of 7.4dB and cable factor of 1.6dB is added. The amplifier gain of 29dB is subtracted. The pulse desensitization factor of the spectrum analyzer was 0dB, and the resultant average factor was -10dB. The net field strength for comparison to the appropriate emission limit is  $32dB\mu V/m$ . This value in  $dB\mu V/m$  was converted to its corresponding level in  $\mu V/m$ .

 $RA = 62.0dB\mu V$ 

AF = 7.4dB

CF = 1.6dB

AG = 29.0dB

PD = 0dB

AV = -10dB

 $FS = 62 + 7.4 + 1.6 - 29 + 0 + (-10) = 32dB\mu V/m$ 

Level in  $\mu V/m = Common Antilogarithm [(32dB<math>\mu V/m)/20] = 39.8 \mu V/m$ 

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4.2 Radiated Emission Configuration Photograph

For electronic filing, the worst case radiated emission configuration photographs are saved with filename: radiated photos.pdf.

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4.3 Radiated Spurious Emission

Worst Case Radiated Spurious Emission at 31.455000MHz

Judgement: Passed by 4.4dB margin

For the electronic filing, the worst case radiated emission configuration photographs are saved with filename: radiated photos.pdf.

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Applicant: Ottlite Technologies Inc.

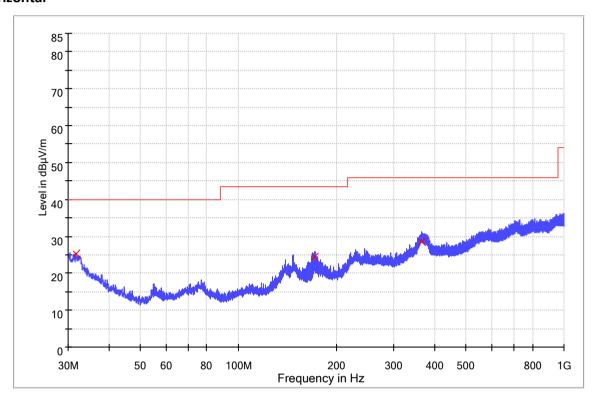
Date of Test: 2023-06-15

Model: L024

Worst Case Operating Mode: Mode 8

#### Radiated Emissions (30MHz - 1000MHz)

#### Horizontal



Frequency (MHz)	Quasi Peak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
31.649000	25.3	1000.0	120.000	Н	22.2	14.7	40.0
171.102667	24.5	1000.0	120.000	Н	16.5	19.0	43.5
366.480000	28.6	1000.0	120.000	Н	23.7	17.4	46.0

#### Remark:

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. QuasiPeak (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Limit Line(dB $\mu$ V/m) Level (dB $\mu$ V/m)

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Applicant: Ottlite Technologies Inc.

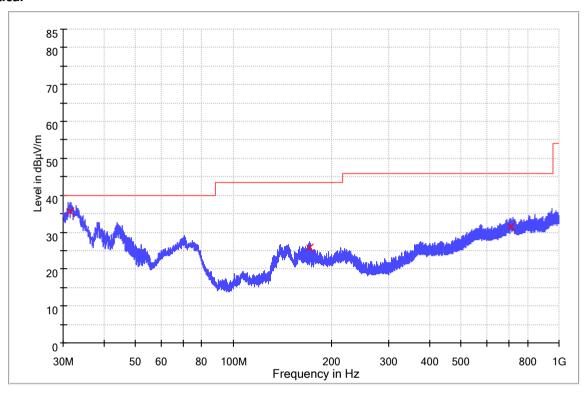
Date of Test: 2023-06-15

Model: L024

Worst Case Operating Mode: Mode 8

#### Radiated Emissions (30MHz - 1000MHz)

#### Vertical



Frequency (MHz)	Quasi Peak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
31.455000	35.6	1000.0	120.000	Н	22.4	4.4	40.0
171.620000	25.7	1000.0	120.000	Н	16.5	17.8	43.5
711.101667	31.5	1000.0	120.000	Н	30.9	14.5	46.0

#### Remark:

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. QuasiPeak (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
- 3. Margin (dB) = Limit Line(dB $\mu$ V/m) Level (dB $\mu$ V/m)

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Applicant: Ottlite Technologies Inc.

Date of Test: 2023-06-15

Model: L024

Worst Case Operating Mode: Mode 2

#### **Fundamental & Spurious Emission Below 30MHz**

Polarization	Frequency (MHz)	Reading (dBµV)	Pre- Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBμV/m)	Distance Factor (-dB)	Calulated at 300m (dBµV/m)	Limit at 300m (dBµV/m)	Margin (dB)
Horizontal	0.130	58.8	0.0	17.0	75.8	80	-4.2	25.3	-29.5
Horizontal	0.391	59.2	0.0	14.9	74.1	80	-5.9	15.7	-21.6

Polarization	Frequency (MHz)	Reading (dBµV)	Pre- Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBμV/m)	Distance Factor (-dB)	Calulated at 30m (dBµV/m)	Limit at 30m (dBµV/m)	Margin (dB)
Horizontal	0.653	50.6	0.0	14.4	65.0	40	25.0	-31.3	56.3

#### Notes:

- 1. The specified limits of frequency band 9~90 KHz, 110~490 KHz are in average and measurements are made with peak detectors. Quasi-Peak detector is used for other frequency band.
- 2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
- 3. Negative value in the margin column shows emission below limit.
- 4. Loop antenna is used for the emission under 30MHz.
- 5. Horizontal and Vertical polarization were tested and only the worst case data is shown.

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## 4.4 Conducted Emission Configuration Photograph

For electronic filing, the worst case conducted emission configuration photographs are saved with filename: conducted photos.pdf.

#### 4.5 Conducted Emission

Worst Case Conducted Configuration at 15.486000MHz

Judgement: Passed by 4.0dB margin

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Applicant: Ottlite Technologies Inc.

Date of Test: 2023-06-27

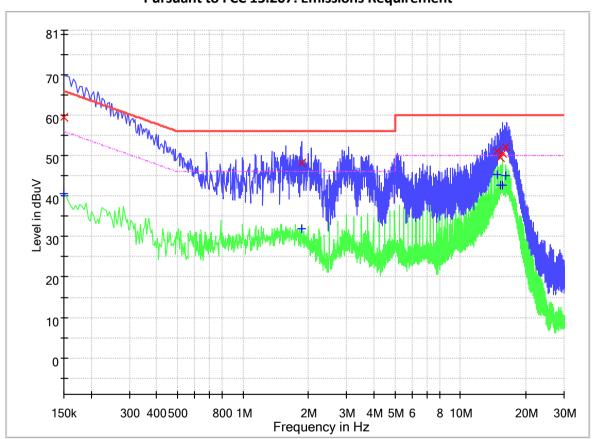
Model: L024

Worst Case Operating Mode: Mode 2

Phase: Live

# **Graphic / Data Table**

# Conducted Emissions Pursuant to FCC 15.207: Emissions Requirement



# **Limit and Margin QP**

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	59.4	9.000	L1	9.6	6.6	66.0
1.858000	48.2	9.000	L1	9.7	7.8	56.0
14.742000	51.1	9.000	L1	10.2	8.9	60.0
15.234000	49.6	9.000	L1	10.2	10.4	60.0
15.658000	50.5	9.000	L1	10.2	9.5	60.0
16.118000	52.1	9.000	L1	10.2	7.9	60.0

# **Limit and Margin AV**

Frequency (MHz)	Average (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	40.6	9.000	L1	9.6	15.4	56.0
1.858000	32.1	9.000	L1	9.7	13.9	46.0
14.742000	45.4	9.000	L1	10.2	4.6	50.0
15.234000	42.6	9.000	L1	10.2	7.4	50.0
15.658000	42.8	9.000	L1	10.2	7.2	50.0
16.118000	45.0	9.000	L1	10.2	5.0	50.0

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Applicant: Ottlite Technologies Inc.

Date of Test: 2023-06-27

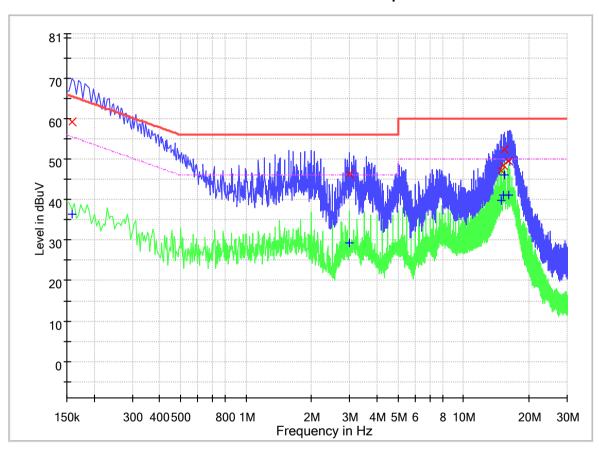
Model: L024

Worst Case Operating Mode: Mode 2

Phase: Neutral

# **Graphic / Data Table**

# Conducted Emissions Pursuant to FCC 15.207: Emissions Requirement



#### **Limit and Margin QP**

<b>5</b> `						
Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.158000	59.2	9.000	N	9.6	6.4	65.6
2.998000	46.4	9.000	N	9.7	9.6	56.0
14.990000	47.3	9.000	N	10.2	12.7	60.0
15.242000	48.4	9.000	N	10.2	11.6	60.0
15.486000	52.5	9.000	N	10.2	7.5	60.0
16.162000	49.5	9.000	N	10.3	10.5	60.0

## **Limit and Margin AV**

	Frequency (MHz)	Average (dBuV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
	0.158000	36.4	9.000	N	9.6	19.2	55.6
	2.998000	29.4	9.000	N	9.7	16.6	46.0
	14.990000	39.9	9.000	N	10.2	10.1	50.0
	15.242000	41.1	9.000	N	10.2	8.9	50.0
	15.486000	46.0	9.000	N	10.2	4.0	50.0
	16.162000	41.1	9.000	N	10.3	8.9	50.0

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#### 5.0 **Equipment Photographs**

For electronic filing, the photographs are saved with filename: external photos.pdf & internal photos.pdf.

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#### 6.0 **Product Labeling**

For electronic filing, the FCC ID label artwork and location is saved with filename: label.pdf.

#### 7.0 <u>Technical Specifications</u>

For electronic filing, the block diagram and circuit diagram are saved with filename: block.pdf and circuit.pdf respectively.

#### 8.0 Instruction Manual

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual.pdf.

This manual will be provided to the end-user with each unit sold/leased in the United States.

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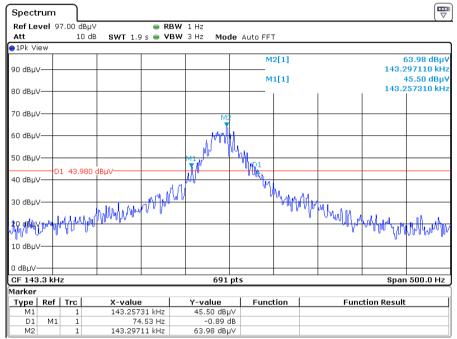
Intertek Report No.: 230517048SZN-001

#### 9.0 Miscellaneous Information

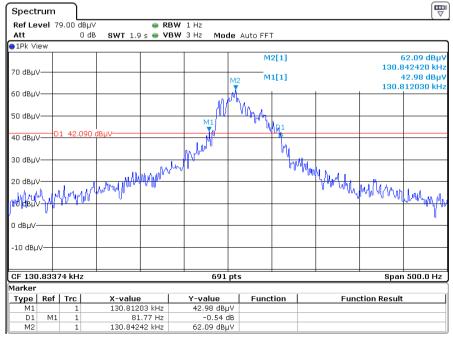
This miscellaneous information includes 20dB bandwidth and emission measuring procedure.

#### 9.1 20dB bandwidth

Pursuant to FCC part 15 Section 15.215(c), the 20dB bandwidth of the emission was contained within the frequency band designated (mentioned as above) which the EUT operated. The effects, if any, from frequency sweeping, frequency hopping, other modulation techniques and frequency stability over excepted variations in temperature and supply voltage were considered. The test plots are reported as below.



Mobile Phones Area



Earbuds Area

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#### 9.2 Emissions Test Procedures

The following is a description of the test procedure used by Intertek Testing Services in the measurements of transmitters operating under Part 15, Subpart C rules.

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The test set-up and procedures described below are designed to meet the requirements of ANSI C63.10 - 2013.

The transmitting equipment under test (EUT) is placed on a styrene turntable which is four feet in diameter and approximately 0.8 meter in height above the ground plane. During the radiated emissions test, the turntable is rotated and any cables leaving the EUT are manipulated to find the configuration resulting in maximum emissions. The EUT is adjusted through all three orthogonal axes to obtain maximum emission levels. The antenna height and polarization are varied during the testing to search for maximum signal levels.

Average detector is used for 9–90 KHz, 110–490 KHz and Quasi-Peak detector is used for other frequency band. The IF bandwidth used for measurement of radiated signal strength was 10 KHz for emission below 30 MHz and 120 KHz for emission from 30 MHz to 1000 MHz.

The frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz up to the 1GHz. For line-conducted emissions, the range scanned is 150kHz to 30MHz.

The EUT is warmed up for 15 minutes prior to the test.

AC power to the unit is varied from 85% to 115% nominal and variation in the fundamental emission field strength is recorded. If battery powered, a new, fully charged battery is used.

Conducted measurements are made as described in ANSI C63.10 - 2013.

The IF bandwidth used for measurement of radiated signal strength was 10kHz for emission below 30MHz and 120kHz for emission from 30MHz to 1000MHz. Where pulsed transmissions of short enough pulse duration warrant, a greater bandwidth is selected according to the recommendations of Hewlett Packard Application Note 150-2. A discussion of whether pulse desensitivity is applicable to this unit is included in this report.

Transmitter measurements are normally conducted at a measurement distance of three meters. However, to assure low enough noise floor in the restricted bands, signals are acquired at a distance of one meter or less. All measurements are extrapolated to three meters using inverse scaling, but those measurements taken at a closer distance are so marked.

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## 10.0 <u>Test Equipment List</u>

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
SZ056-06	Signal Analyzer	R&S	FSV 40	101101	2022-12-19	2023-12-19
SZ062-10	RF Cable	Bedea	RG 58		2023-04-01	2023-10-01
SZ185-03	EMI Receiver	R&S	ESR7	101975	2023-04-27	2024-04-27
SZ061-06	Active Loop Antenna	Electro-Metrics	EM-6876	217	2021-05-18	2024-05-18
SZ061-12	BiConiLog Antenna	ETS	3142E	00166158	2021-08-04	2024-08-04
SZ188-05	Anechoic Chamber	ETS	FACT 3-2.0	CT001880- Q1391	2021-05-25	2024-05-25
SZ062-23	RF Cable	RADIALL	SF104PE	MY4262/4PE	2022-10-17	2023-10-17
SZ062-35	RF Cable	Rebes	A50- 3.5M3.5M- 8M	19100879	2022-10-17	2023-10-17
SZ185-02	EMI Test Receiver	R&S	ESCI	100692	2022-07-08	2023-07-08
SZ187-02	Two-Line V-Network	R&S	ENV216	100072	2023-04-27	2024-04-27
SZ188-03	Shielding Room	ETS	RFD-100	4100	2022-12-20	2025-12-20

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