

Rapid Release Technology LLC

TEST REPORT

SCOPE OF WORK

FCC TESTING—MW01

REPORT NUMBER

260609095SZN-001

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Intertek Report No.: 260609095SZN-001

Rapid Release Technology LLCApplication
For
Certification**FCC ID: 2BX5J-P3IXXXX****Magsafe Fast Wireless Charger****Model: MW01****Brand name: Rapid release****Sample ID: Z260609095-001****Transmitter**

Report No.: 260609095SZN-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 [10-1-24]

Prepared and Checked by:*Mandy***Approved by:***Peter Kang*

Mandy Chen
Engineer

Peter Kang
Senior Technical Supervisor
Date: 21 July 2026

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Intertek Testing Services Shenzhen Ltd. Longhua Branch

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MEASUREMENT/TECHNICAL REPORT

This report concerns (check one) Original Grant ☒ Class II Change ☐

Equipment Type: DCD - Part 15 Low Power Transmitter Below 1705 kHz

Deferred grant requested per 47 CFR 0.457(d)(1)(ii)? Yes ☐ No ☒

If yes, defer until: _____
date

Company Name agrees to notify the Commission by: _____
date

of the intended date of announcement of the product so that the grant can be issued on that date.

Transition Rules Request per 15.37? Yes ☐ No ☒

If no, assumed Part 15, Subpart C for intentional radiator - the new 47 CFR [10-01-24] Edition] provision.

Report prepared by:

Mandy Chen

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1.0 Summary of Test Results

Applicant: Rapid Release Technology LLC

Address: 3303 Harbor Blvd E-1 Costa Mesa California United States

Manufacturer: Dongguan Agilian Technology Co., Ltd

Address: Room 202, 2nd floor, No. 3 Dongyi Street, Xingfa Community, Wusha Liwu, Chang'an Town, Dongguan City, Guangdong Province, China

Model: MW01

FCC ID: 2BX5J-P3IXXX

TEST ITEM	REFERENCE	RESULTS
Power Line Conducted Emissions	15.207	Pass
Transmitter Radiated Emissions	15.209	Pass
Antenna Requirement	15.203	Pass (See Note)
20dB bandwidth	15.215(c)	Pass

Note:

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

2.0 General Description

2.1 Product Description

The Equipment Under Test (EUT) is a Magsafe Fast Wireless Charger with wireless charger function which operating at 111KHz-205KHz. The EUT is powered by DC 9V2A from adapter, the output of the wireless charger is 15W Max. For more detailed features description, please refer to the user's manual.

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 Magsafe Fast Wireless Charger 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 (2020). 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.

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 (2020).

The EUT was powered by an adapter with 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 was shown in this report.

Pertest mode	Description
Mode 1	Charging + 15W wireless output
Mode 2	Charging + 7.5W wireless output
Mode 3	Charging + 10W wireless output
Mode 4	Charging + 5W wireless output
Mode 5	Standby

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 rear of unit shall be flushed with the rear of the table.

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 are no special accessories necessary for compliance of this product.

3.4 Equipment Modification

Any modifications installed previous to testing by Rapid Release Technology LLC 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.

3.5 Measurement Uncertainty

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

Measurement Uncertainty	Uncertainty
Channel Bandwidth	$\pm 3.46\%$
Radiated emission (Up to 1GHz)	$\pm 4.8\text{dB}$
AC Conducted emission	$\pm 3.2\text{ dB}$
Temperature	$\pm 1^{\circ}\text{C}$
Humidity	$\pm 5\%$

3.6 Support Equipment List and Description

This product was tested in the following configuration:

Description	Manufacturer	Detail
Smart Wireless Charging Pad	YBZ (Provided by Intertek)	Model: YBZ
Quick Wall Charger	Huizhou Xunyang Electronics Co.,Ltd. (Provided by Applicant)	Model: XY-PD20081-02 Input: 100-240V~, 50/60Hz, 0.6A Output Type-C: 5V=3A, 9V=2.22A, 12V=1.67A
USB-C to USB-C Cable	N/A (Provided by Applicant)	(100cm length, without ferrite core, unshielded)

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 dBμV/m
RA = Receiver Amplitude (including preamplifier) in dBμV
CF = Cable Attenuation Factor in dB
AF = Antenna Factor in dB/m
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 62.0dBμV 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 32dBμV/m. This value in dBμV/m was converted to its corresponding level in μV/m.

RA = 62.0dBμV
AF = 7.4 dB/m
CF = 1.6dB
AG = 29.0dB
PD = 0dB

AV = -10dB

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

Level in μV/m = Common Antilogarithm [(32dBμV/m)/20] = 39.8μV/m

4.2 Radiated Emission Configuration Photograph

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

4.3 Radiated Spurious Emission

Worst Case Radiated Spurious Emission
at
32.392667MHz

Judgement: Passed by 3.0dB margin

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

Applicant: Rapid Release Technology LLC

Date of Test: 13 July 2026

Model: MW01

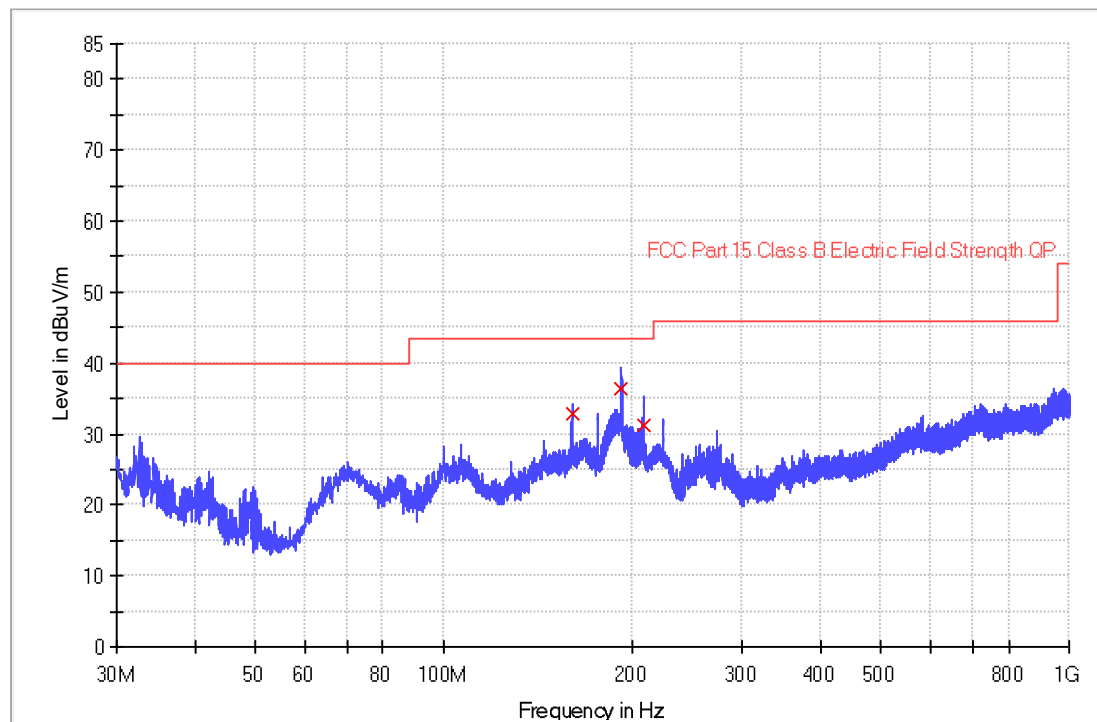
Worst Case Operating Mode: Mode 1

Test Voltage: AC 120V, 60Hz

Radiated Emissions (30MHz – 1000MHz)

ANT Polarity: Horizontal

FCC Part 15



Limit and Margin

Frequency (MHz)	Quasi Peak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
160.303333	32.9	1000.0	120.000	H	17.4	10.6	43.5
192.475000	36.5	1000.0	120.000	H	17.0	7.0	43.5
208.447667	31.3	1000.0	120.000	H	17.7	12.2	43.5

Remark:

1. Corr. (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)
2. QuasiPeak (dBμV/m) = Corr. (dB/m) + Read Level (dBμV)
3. Margin (dB) = Limit Line(dBμV/m) – Level (dBμV/m)

Applicant: Rapid Release Technology LLC

Date of Test: 13 July 2026

Model: MW01

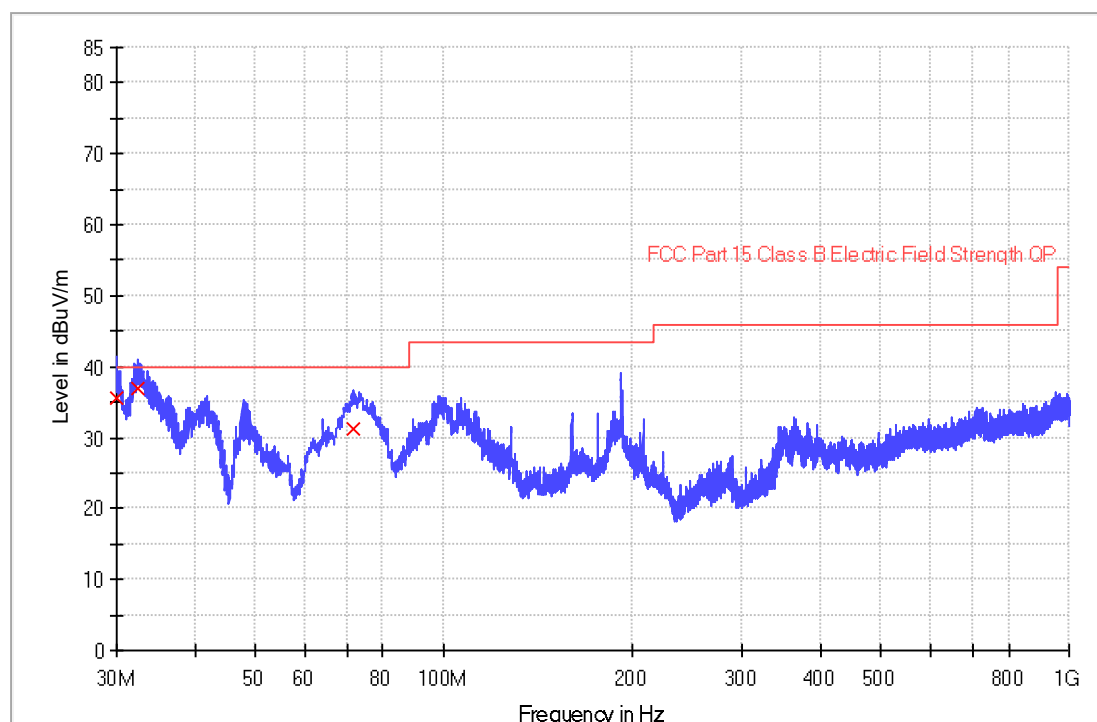
Worst Case Operating Mode: Mode 1

Test Voltage: AC 120V, 60Hz

Radiated Emissions (30MHz – 1000MHz)

ANT Polarity: Vertical

FCC Part 15

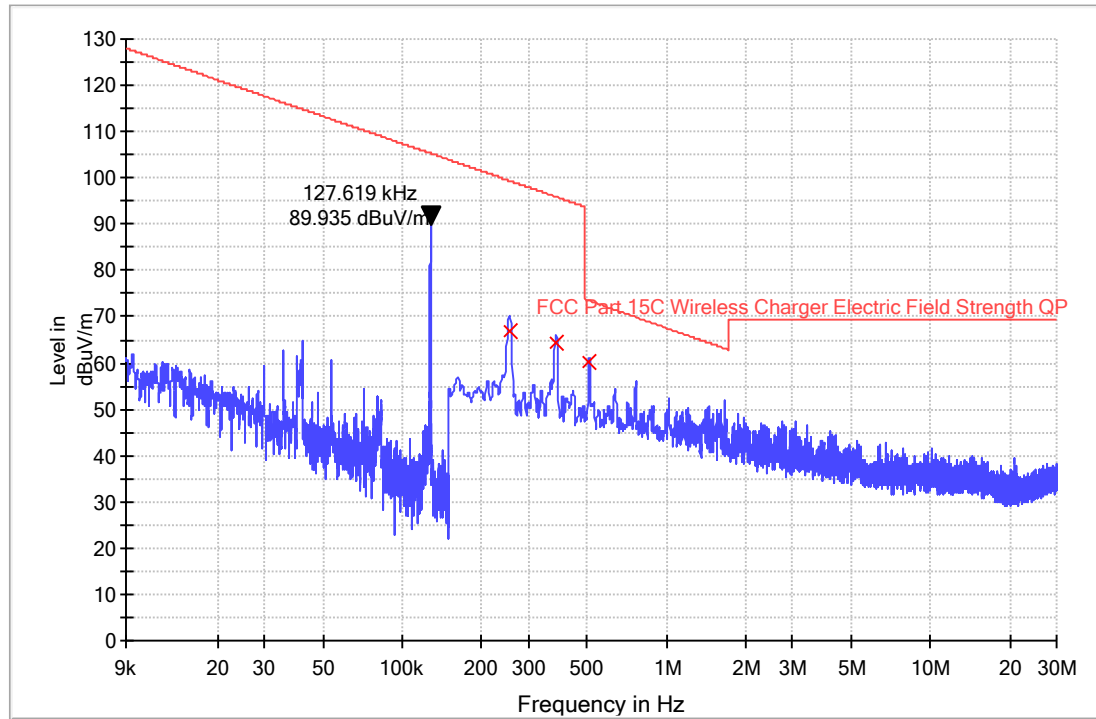


Limit and Margin

Frequency (MHz)	Quasi Peak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
30.000000	35.6	1000.0	120.000	V	22.8	4.4	40.0
32.392667	37.0	1000.0	120.000	V	21.3	3.0	40.0
71.483667	31.4	1000.0	120.000	V	13.6	8.6	40.0

Remark:

1. Corr. (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)
2. QuasiPeak (dBuV/m) = Corr. (dB/m) + Read Level (dBuV)
3. Margin (dB) = Limit Line(dBuV/m) – Level (dBuV/m)



Applicant: Rapid Release Technology LLC

Date of Test: 30 June 2026

Model: MW01

Worst Case Operating Mode: Mode 2

Test Voltage: AC 120V, 60Hz

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)	Calculated at 300m (dBμV/m)	Limit at 300m (dBμV/m)	Margin (dB)
Horizontal	0.1276	72.8	0.0	17.1	89.9	80.0	9.9	25.5	-15.6
Horizontal	0.2545	50.0	0.0	16.8	66.8	80.0	-13.2	19.5	-32.7
Horizontal	0.3818	48.0	0.0	16.5	64.5	80.0	-15.5	16.0	-31.5

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBμV/m)	Distance Factor (-dB)	Calculated at 30m (dBμV/m)	Limit at 30m (dBμV/m)	Margin (dB)
Horizontal	0.5102	44.1	0.0	16.2	60.3	40.0	20.3	33.4	-13.1

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 bands.
2. All measurements were made at 3 meter. 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. We tested all models, only the worst case data is shown

4.4 Conducted Emission Configuration Photograph

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

4.5 Conducted Emission

Worst Case Conducted Configuration
at
27.770000MHz

Judgement: Passed by 3.3dB margin

Applicant: Rapid Release Technology LLC

Date of Test: 12 June 2026

Worst Case Operating Mode: Mode 1

Test Voltage: AC 120V, 60Hz

Model: MW01

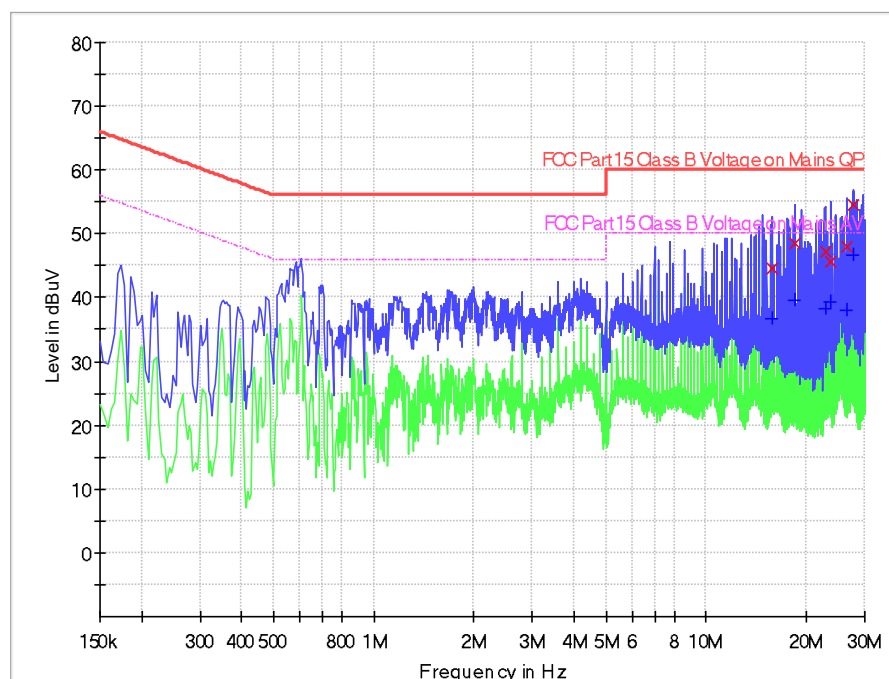
Phase: Live

Graphic / Data Table

Conducted Emissions

Pursuant to FCC 15.207: Emissions Requirement

Conducted Emission Test - FCC Part 15



Limit and Margin QP

Frequency (MHz)	Quasi Peak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
15.782000	44.6	9.000	L1	11.2	15.4	60.0
18.574000	48.4	9.000	L1	11.5	11.6	60.0
22.774000	47.3	9.000	L1	12.1	12.7	60.0
23.574000	45.6	9.000	L1	12.2	14.4	60.0
26.374000	48.0	9.000	L1	12.5	12.0	60.0
27.770000	54.6	9.000	L1	12.7	5.4	60.0

Limit and Margin AV

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
15.782000	36.6	9.000	L1	11.2	13.4	50.0
18.574000	39.7	9.000	L1	11.5	10.3	50.0
22.774000	38.4	9.000	L1	12.1	11.6	50.0
23.574000	39.3	9.000	L1	12.2	10.7	50.0
26.374000	38.0	9.000	L1	12.5	12.0	50.0
27.770000	46.7	9.000	L1	12.7	3.3	50.0

Remark:

1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Margin (dB) = Limit (dBμV) – Quasi Peak/Average (dBμV)

Applicant: Rapid Release Technology LLC

Date of Test: 12 June 2026

Worst Case Operating Mode: Mode 1

Test Voltage: AC 120V, 60Hz

Model: MW01

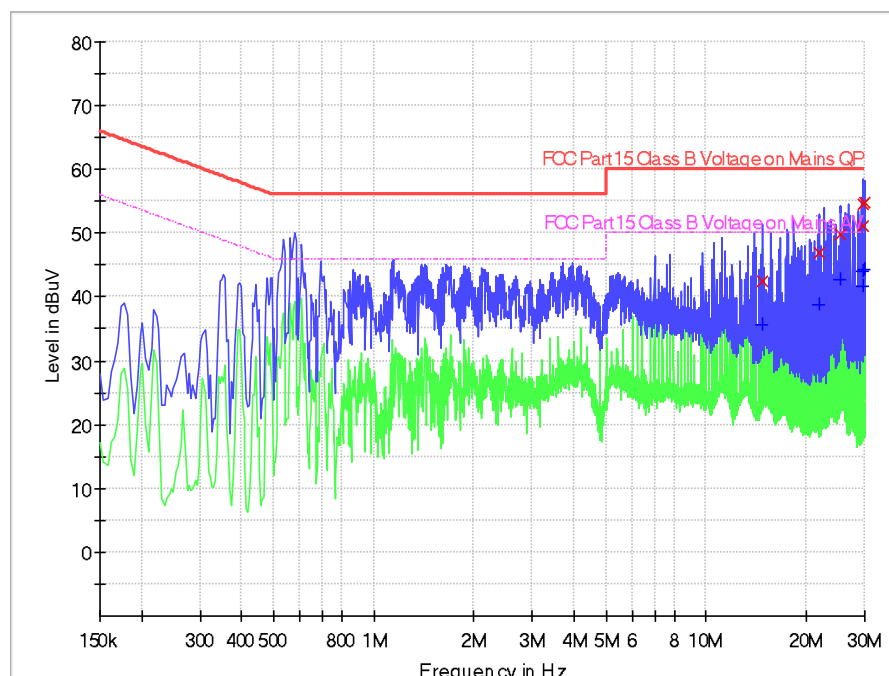
Phase: Neutral

Graphic / Data Table

Conducted Emissions

Pursuant to FCC 15.207: Emissions Requirement

Conducted Emission Test - FCC Part 15



Limit and Margin QP

Frequency (MHz)	Quasi Peak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
14.786000	42.5	9.000	N	11.0	17.5	60.0
21.786000	46.8	9.000	N	11.6	13.2	60.0
25.382000	49.8	9.000	N	12.0	10.2	60.0
29.582000	54.5	9.000	N	12.3	5.5	60.0
29.782000	51.2	9.000	N	12.3	8.8	60.0
29.978000	54.8	9.000	N	12.4	5.2	60.0

Limit and Margin AV

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
14.786000	35.6	9.000	N	11.0	14.4	50.0
21.786000	38.9	9.000	N	11.6	11.1	50.0
25.382000	42.7	9.000	N	12.0	7.3	50.0
29.582000	44.0	9.000	N	12.3	6.0	50.0
29.782000	41.8	9.000	N	12.3	8.2	50.0
29.978000	44.3	9.000	N	12.4	5.7	50.0

Remark:

1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Margin (dB) = Limit (dBμV) – Quasi Peak/Average (dBμV)

5.0 Equipment Photographs

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

6.0 Product Labeling

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

7.0 Technical Specifications

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.

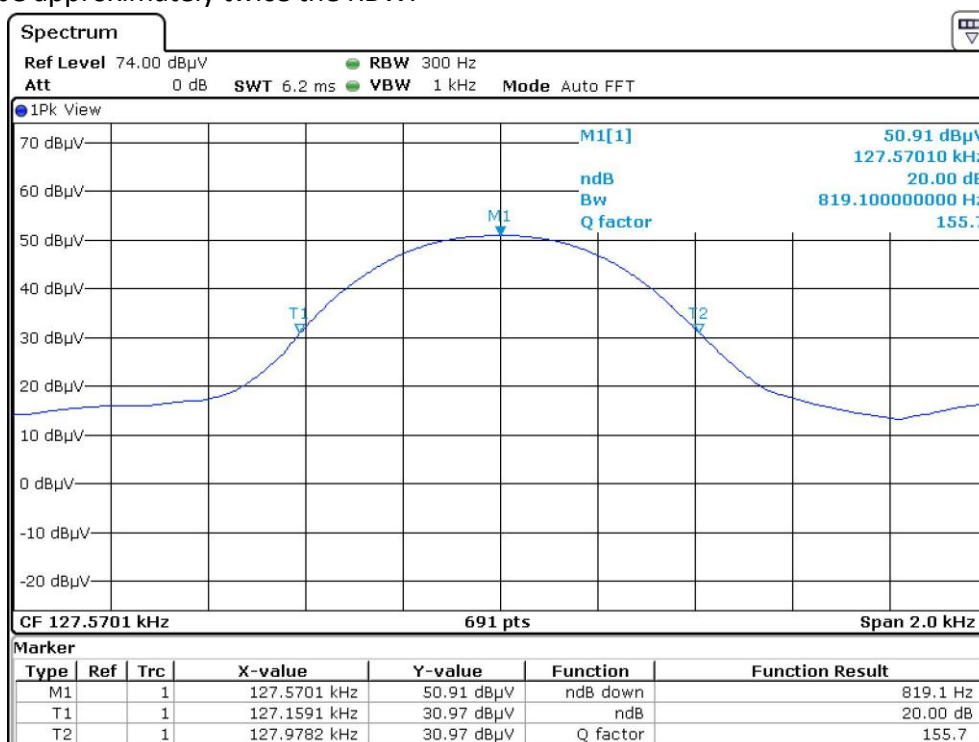
9.0 Miscellaneous Information

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.

Remark: Because the measured signal is CW adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.



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.

The test set-up and procedures described below are designed to meet the requirements of ANSI C63.10 - 2020.

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.

9.2 Emissions Test Procedures (cont'd)

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 - 2020.

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. 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.

10.0 Test Equipment List

Equip No.	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
SZ056-06	Signal Analyzer	R&S	FSV40	101101	2025-12-01	2026-12-01
SZ185-03	EMI Receiver	R&S	ESR7	101975	2026-04-10	2027-04-10
SZ061-06	Active Loop Antenna	Electro-Metrics	EM-6876	217	2024-05-05	2027-05-05
SZ061-13	Biconilog Antenna	ETS	3142E	00217919	2025-05-29	2028-05-29
SZ188-05	Anechoic Chamber	ETS	FACT 3-2.0	CT001880-Q1391	2025-06-18	2028-06-18
SZ062-40	RF Cable	Talent Microwave	A50-3.5M3.5M-4.5M	22012932	2025-09-30	2026-09-30
SZ062-41	RF Cable	Talent Microwave	A50-3.5M3.5M-8M	22012931	2025-09-30	2026-09-30
SZ185-02	EMI Test Receiver	R&S	ESCI	100692	2026-06-04	2027-06-04
SZ187-02	Two-Line V-Network	R&S	ENV216	100073	2026-04-10	2027-04-10
SZ188-03	Shielding Room	ETS	RFD-100	4100	2022-12-20	2027-12-20
SZ062-16	RF Cable	HUBER+SUHNER	CBL2-BN-1m	110127-2231000	2026-06-04	2027-06-04

*****End of Report*****