

Luxshare Precision Industry Co.,Ltd.

TEST REPORT

SCOPE OF WORK

FCC TESTING-VSN:110125667

REPORT NUMBER

240307044SZN-002

ISSUE DATE

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Luxshare Precision Industry Co.,Ltd.

Application
For
Certification

FCC ID: 2AYYS-8822K4VTG

onn. 4K Streaming Box

Model: VSN:110125667

Brand name: onn.

2.4GHz Transceiver

Report No.: 240307044SZN-002

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 [10-1-22]

Prepared and Checked by:

Approved by:

Allen Qin
Engineer

Ryan Chen
Project Engineer
Date: 18 March 2024

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MEASUREMENT/TECHNICAL REPORT

This report concerns (check one:) Original Grant_ Class II Change X

Equipment Type: DXX - Part 15 Low Power Communication Device Transmitter

Deferred grant requested per 47 CFR 0.457(d)(1)(ii)? Yes _____ No X

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 X

If no, assumed Part 15, Subpart C for intentional radiator – the new 47 CFR [10-1-22 Edition] provision.

Report prepared by:

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1.0 Summary of Test Result

Applicant: Luxshare Precision Industry Co.,Ltd.

Applicant Address: Floor 2, Block A, Sanyo New Industrial Area, West Haoyi Community,
Shajing Subdistrict Office, Bao an District Shenzhen, China

Manufacturer: Luxshare Precision Industry Co.,Ltd.

Manufacturer Address: Floor 2, Block A, Sanyo New Industrial Area, West Haoyi Community,
Shajing Subdistrict Office, Bao an District Shenzhen, China

MODEL: VSN:110125667

FCC ID: 2AYYS-8822K4VTG

Test Specification	Reference	Results
Transmitter Radiated Emission	15.249 &15.209 &15.205	Pass

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.

2.0 General Description

2.1 Product Description

The equipment under test (EUT) is an onn. 4K Streaming Box with Bluetooth 5.0 (dual-mode) function operating in 2402-2480MHz, 2.4G WIFI function operating in 2412-2462MHz and 5G WIFI function operating in 5150MHz~5250 MHz, 5250MHz~5350MHz, 5470MHz-5725MHZ, 5725MHz~5850MHz. The EUT is powered by DC 5V from an adapter. For more detail information pls. refer to the user manual.

Bluetooth(EDR):

Antenna Type: Integral antenna

Modulation Type: GFSK, $\pi/4$ -DQPSK and 8-DPSK

Antenna Gain:2.29dBi Max

Bluetooth Version: 5.0

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

This report bases on the previous report with report number 221125030SZN-001 Dated 05 January 2023. The changes are: replace DDR and eMMC chips from different manufacturers. The chips are replaced pin to pin. Considering RF module has not changed, RF specifications are the same. Spurious emissions have been re-performed.

2.2 Related Submittal(s) Grants

This is an application for certification of a transceiver for the onn. 4K Streaming Box which has classic Bluetooth (EDR) function.

For the BT BLE function was tested and demonstrated in report 240307044SZN-003.

For the 2.4GHz WIFI function was tested and demonstrated in report 240307044SZN-004.

For the 5GHz WIFI function was tested and demonstrated in report 240307044SZN-005.

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, P.R. China. This test facility and site measurement data have been fully placed on file with the FCC (Registration 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 (2013).

The EUT is powered by DC 5V from an adapter during the test.

All packets DH1, DH3 & DH5 mode in modulation type GFSK, $\pi/4$ -DQPSK and 8-DPSK were tested and only the worst data was reported in this report.

For maximizing emissions below 30 MHz, the EUT was rotated through 360°, the centre of the loop antenna was placed 1 meter above the ground, and the antenna polarization was changed. For maximizing emissions, 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 reported in Section 4.

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 placed on a turn table, which enabled the engineer to maximize emissions through its placement in the three orthogonal axes.

3.2 EUT Exercising Software

The EUT exercise program (provided by client) used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use. The worst case configuration is used in all specified testing.

The parameters of test software setting:

During the test, Channel and power controlling software provided by the applicant was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the application and is going to be fixed on the firmware of the end product.

Software: CMD

3.3 Special Accessories

Adapter(Model: PS06T050K1000UD, Input: 100-240V~50/60Hz 0.25A Max, Output: 5.0V/1.0A).

HDMI Cable (unshielded, 100cm).

3.4 Equipment Modification

Any modifications installed previous to testing by Luxshare Precision Industry Co.,Ltd. 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 the test conclusion, the Measurement Uncertainty of test has been considered.

3.6 Support Equipment List and Description

Description	Manufacturer	Remark
TV (Provided by Intertek)	SONY	150B4CG
HDMI Cable (Provided by applicant)	N/A	unshielded, 100cm
Adaptor (Provided by applicant)	N/A	Model: PS06T050K1000UD, Input: 100-240V~50/60Hz 0.25A Max, Output: DC 5.0V/1.0A
Remote control (Provided by applicant)	N/A	N/A

4.0 Emission Results

Data is included worst-case configuration (the configuration which resulted in the highest emission levels).

4.1 Radiated Test Results

A sample calculation, configuration photographs and data tables of the emissions are included.

4.1.1 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 μ V/m
- RA = Receiver Amplitude (including preamplifier) in dB μ 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:

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

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

$$RA = 62.0 \text{ dB}\mu\text{V}$$

$$AF = 7.4 \text{ dB}$$

$$CF = 1.6 \text{ dB}$$

$$AG = 29.0 \text{ dB}$$

$$PD = 0 \text{ dB}$$

$$AV = -10 \text{ dB}$$

$$FS = 62 + 7.4 + 1.6 - 29 + 0 = 42 \text{ dB}\mu\text{V/m}$$

$$\text{Level in } \mu\text{V/m} = \text{Common Antilogarithm } [(42 \text{ dB}\mu\text{V/m})/20] = 125.9 \mu\text{V/m}$$

4.1.2 Radiated Emission Configuration Photograph

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

4.1.3 Antenna information

For electronic filing , Antenna specifications is refer to filename: ANT BT. pdf. Antenna photos is refer to filename: description. pdf.

4.1.4 Radiated Emissions

The data on the following page lists the significant emission frequencies, the limit and the margin of compliance. Numbers with a minus sign are below the limit. Simultaneous transmission was considered during the test, only the worst case data is recorded in this report.

Worst Case Radiated Emission
at
532.800000 MHz

Judgement: Passed by 14.3 dB

TEST PERSONNEL:

Sign on file

Allen Qin. Engineer
Typed/Printed Name

15 March 2024
Date

Applicant: Luxshare Precision Industry Co.,Ltd.

Date of Test: 15 March 2024

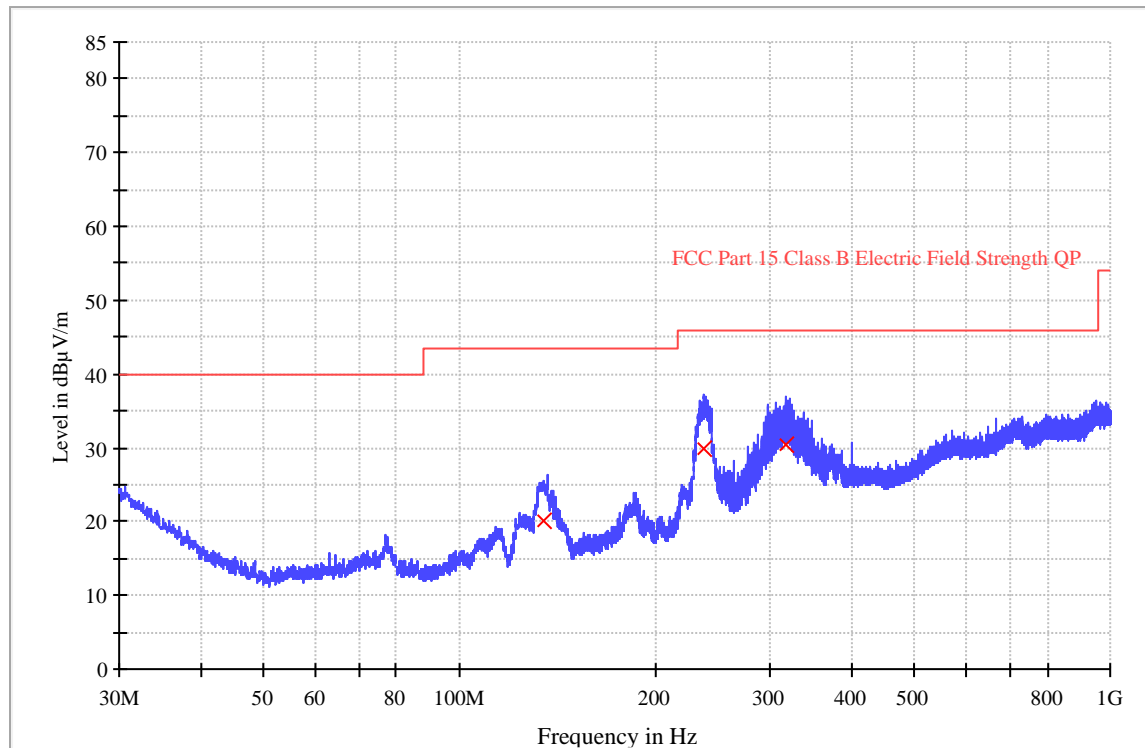
Model: VSN:110125667

Worst Case Operating Mode:

Simultaneous transmission

ANT Polarity: Horizontal

FCC Part 15



Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
134.501333	20.1	1000.0	120.000	H	15.0	23.4	43.5
237.062667	30.0	1000.0	120.000	H	18.4	16.0	46.0
318.120000	30.5	1000.0	120.000	H	21.1	15.5	46.0

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: Luxshare Precision Industry Co.,Ltd.

Date of Test: 15 March 2024

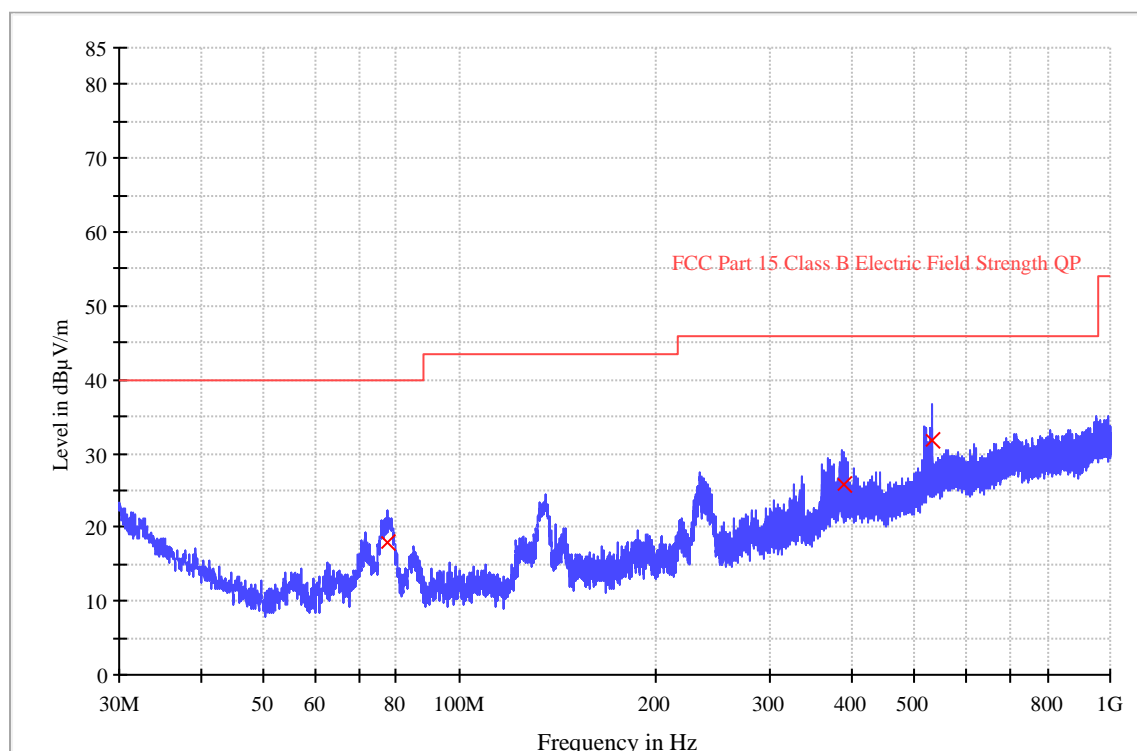
Worst Case Operating Mode:

Model: VSN:110125667

Simultaneous transmission

ANT Polarity: Vertical

FCC Part 15



Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Polarization	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
77.271333	17.8	1000.0	120.000	V	13.7	22.2	40.0
389.288000	25.8	1000.0	120.000	V	24.9	20.2	46.0
532.800000	31.7	1000.0	120.000	V	28.2	14.3	46.0

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)

4.1.5 Transmitter Spurious Emissions (Radiated)

Worst Case Radiated Emission
at
9920.000 MHz

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

The data on the following page lists the significant emission frequencies, the limit and the margin of compliance. Numbers with a minus sign are below the limit.

Judgement: Passed by 22.5 dB

TEST PERSONNEL:

Sign on file

Allen Qin, Engineer
Typed/Printed Name

15 March 2024
Date

Applicant: Luxshare Precision Industry Co.,Ltd.

Date of Test: 15 March 2024

Worst Case Operating Mode:

Model: VSN:110125667

Transmitting

Table 1

Radiated Emissions

(2402MHz)

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	2402.000	/	36.7	28.1	/	114.0	/
Horizontal	4804.000	50.8	36.7	35.5	49.6	74.0	-24.4
Horizontal	7206.000	46.8	36.1	36.5	47.2	74.0	-26.8
Horizontal	9608.000	49.2	36.3	38.0	50.9	74.0	-23.1

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Average Factor (-dB)	Net at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	2402.000	8.6	36.7	28.1	22.5	/	94.0	/
Horizontal	4804.000	50.8	36.7	35.5	22.5	27.1	54.0	-26.9
Horizontal	7206.000	46.8	36.1	36.5	22.5	24.7	54.0	-29.3
Horizontal	9608.000	49.2	36.3	38.0	22.5	28.4	54.0	-25.6

Notes: 1. Peak detector is used for the emission measurement.

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. Horn antenna is used for the emission over 1000MHz.

Test Engineer: Allen Qin

Applicant: Luxshare Precision Industry Co.,Ltd.

Date of Test: 15 March 2024

Worst Case Operating Mode:

Model: VSN:110125667

Transmitting

Table 2

Radiated Emissions

(2441MHz)

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	2441.000	8.6	36.7	28.1	/	114.0	/
Horizontal	4882.000	48.7	36.7	35.5	47.5	74.0	-26.5
Horizontal	7323.000	47.2	36.1	37.2	48.3	74.0	-25.7
Horizontal	9764.000	49.6	36.2	37.0	50.4	74.0	-23.6

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Average Factor (-dB)	Net at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	2441.000	8.6	36.7	28.1	22.5	-22.5	94.0	-116.5
Horizontal	4882.000	48.7	36.7	35.5	22.5	25.0	54.0	-29.0
Horizontal	7323.000	47.2	36.1	37.2	22.5	25.8	54.0	-28.2
Horizontal	9764.000	49.6	36.2	37.0	22.5	27.9	54.0	-26.1

Notes: 1. Peak detector is used for the emission measurement.

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. Horn antenna is used for the emission over 1000MHz.

Test Engineer: Allen Qin

Applicant: Luxshare Precision Industry Co.,Ltd.

Date of Test: 15 March 2024

Worst Case Operating Mode:

Model: VSN:110125667

Transmitting

Table 3

Radiated Emissions

(2480MHz)

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBμV/m)	Peak Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	2480.000	8.6	36.7	28.1	/	114.0	//
Horizontal	4960.000	50.3	36.7	35.5	49.1	74.0	-24.9
Horizontal	7440.000	47.2	36.1	37.2	48.3	74.0	-25.7
Horizontal	9920.000	48.9	36.3	38.9	51.5	74.0	-22.5

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Average Factor (-dB)	Net at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
Horizontal	2480.000	8.6	36.7	28.1	22.5	/	94.0	/
Horizontal	4960.000	50.3	36.7	35.5	22.5	26.6	54.0	-27.4
Horizontal	7440.000	47.2	36.1	37.2	22.5	25.8	54.0	-28.2
Horizontal	9920.000	48.9	36.3	38.9	22.5	29.0	54.0	-25.0

Notes: 1. Peak detector is used for the emission measurement.

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. Horn antenna is used for the emission over 1000MHz.

Test Engineer: Allen Qin

5.0 Equipment Photographs

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

6.0 Product Labelling

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

7.0 Technical Specifications

For electronic filing, the block diagram and schematics of the tested EUT 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

9.1 Discussion of Pulse Desensitization

Pulse desensitivity is not applicable for this device. The effective period (Teff) is approximately 625µs for Bluetooth. With a resolution bandwidth (3dB) of 1MHz, so the pulse desensitivity factor is 0dB.

9.2 Calculation of Average Factor

Based on the Bluetooth Specification Version 5.0 (EDR mode) and worst case AFH mode, transmitter ON time is independent of packet type (DH1, DH3 and DH5) and packet length, the AFH mode Duty cycle connection factor as below:

Channel hop rate = 800 hops/second (AFH Mode)

Adjusted channel hop rate for DH5 mode = 133.33 hops/second

Time per channel hop = $1 / 133.33 \text{ hops/second} = 7.5 \text{ ms}$

Time to cycle through all channels = $7.5 \times 20 \text{ channels} = 150 \text{ ms}$

Number of times transmitter hits on one channel = $100 \text{ ms} / 150 \text{ ms} = 1 \text{ time(s)}$

Worst case dwell time = 7.5 ms

Duty cycle connection factor = $20\log_{10} (7.5\text{ms} / 100\text{ms}) = -22.5 \text{ dB}$

9.3 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 - 2013.

The transmitting equipment under test (EUT) is placed on a styrene turntable which is four feet in diameter and approximately 0.8 meter up to 1GHz and 1.5 meter above 1GHz 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.

Detector function for radiated emissions is in peak mode. Average readings, when required, are taken by measuring the duty cycle of the equipment under test and subtracting the corresponding amount in dB from the measured peak readings. A detailed description for the calculation of the average factor can be found in section 9.4.

The frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or 40 GHz, whichever is lower.

Detector function for conducted emissions is in QP & AV mode and IFBW setting is 9 kHz from the frequency band 150 kHz to 30MHz.

9.4 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 - 2013.

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. Above 1000 MHz, a resolution bandwidth of 1 MHz is used (RBW 3MHz used for fundamental emission).

Transmitter measurements are normally conducted at a measurement distance of three meters. However, to assure low enough noise floor in the restricted bands and above 1 GHz, 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

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
SZ061-13	Biconilog Antenna	ETS	3142E	00217919	2022-07-13	2025-07-13
SZ061-08	Horn Antenna	ETS	3115	00092346	2021-09-05	2024-09-05
SZ061-07	Pyramidal Horn Antenna	ETS	3160-09	00083067	2022-08-31	2025-05-31
SZ056-03	Spectrum Analyzer	R&S	FSP30	101148	2023-04-27	2024-04-27
SZ185-03	EMI Receiver	R & S	ESR7	101975	2023-04-27	2024-04-27
SZ181-04	Preamplifier	Agilent	8449B	3008A02474	2023-04-27	2024-04-27
SZ188-01	Anechoic Chamber	ETS	RFD-F/A-100	4102	2021-12-12	2024-12-12
SZ062-02	RF Cable	RADIALL	RG 213U	--	2023-07-18	2024-07-18
SZ062-05	RF Cable	RADIALL	0.04-26.5GHz	--	2023-07-18	2024-07-18
SZ062-12	RF Cable	RADIALL	0.04-26.5GHz	--	2023-04-27	2024-04-27
SZ067-04	Notch Filter	Micro-Tronics	BRM50702-02	--	2023-04-27	2024-04-27

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