

TEST REPORT**Report No.: 23120991HKG-001**

Nacon (HK) Limited

Application For Certification
(Original Grant)**FCC ID: 2AVPR-M2****IC: 25872-M2**

Transceiver

This report contains the data of Bluetooth 5.4 portion only

Prepared and Checked by:

Signed on File

Leung Chun Ning, Peter
Assistant Engineer**Approved by:**Wong Cheuk Ho, Herbert
Assistant Manager
Date: June 25, 2024

TEST REPORT**GENERAL INFORMATION**

Grantee:	Nacon (HK) Limited
Grantee Address:	17/F., 148 Electric Road, North Point, Hong Kong.
FCC Specification Standard:	FCC Part 15, October 1, 2022 Edition
FCC ID:	2AVPR-M2
FCC Model(s):	M2PROHD
IC Specification Standard:	RSS-210 Issue 11, June 2024 RSS-Gen Issue 5 Amendment 2, February 2021
IC:	25872-M2
HVIN:	M2PROHD
PMN:	M2 STREAMSTAR
Type of EUT:	Transceiver
Description of EUT:	M2 STREAMSTAR
Brand Name:	RIG
Serial Number:	XXXXXXXXXX
Sample Receipt Date:	June 19, 2024
Date of Test:	June 19, 2024 to June 20, 2024
Report Date:	June 25, 2024
Environmental Conditions:	Temperature: +10 to 40°C Relative Humidity: 10 to 90%
Conclusion:	Test was conducted by client submitted sample. The submitted sample as received complied with the 47 CFR Part 15 / RSS-210 Issue 11 Certification.

This report contains the data of Bluetooth 5.4 portion only

TEST REPORT**SUMMARY OF TEST RESULT**

Test Items	FCC Part 15 Section	RSS-210 / RSS-Gen [#]	Results
Transmitter Power Line Conducted Emissions	15.207	8.8 [#]	Complied
Radiated Emission	15.249, 15.209	B.10 / 8.9 [#]	Complied
Radiated Emission on the Bandedge			Complied
Radiated Emission in Restricted Bands	15.205	8.10 [#]	Complied

For all technical data can be referred to Annex B – Report cover sheet.

For electronic filing, the Annex B – Report cover sheet is saved with filename: Annex B.pdf.

The equipment under test is found to be complying with the following standards:

FCC Part 15, October 1, 2022 Edition

RSS-210 Issue 11, June 2024

RSS-Gen Issue 5 Amendment 2, February 2021

Note: 1. The EUT uses a permanently attached antenna which, in accordance to section 15.203, is considered sufficient to comply with the provisions of this section.

2. 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 expected variations in temperature and supply voltage were considered.

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1.0 GENERAL DESCRIPTION

1.1 Product Description

The Equipment Under Test (EUT), is a 2.4GHz and Bluetooth 5.4 Transceiver for a dongle. For the Bluetooth 5.4 mode, the sample supplied operated on 79 channels, normally at 2402 - 2480MHz. The channels are separated with 1MHz spacing. For the 2.4GHz mode, the sample supplied operated on 40 channels, normally at 2402 - 2480MHz. The channels are separated with 2MHz spacing. The EUT is powered by USB port (5VDC).

Antenna Type: Internal, Integral

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

1.2 Related Submittal(s) Grants

This is a single application for certification of a transceiver.

1.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.10 (2013). All radiated measurements were performed in an 3m Chamber. Preliminary scans were performed in the 3m Chamber only to determine 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.

1.4 Test Facility

The 3m Chamber and conducted measurement facility used to collect the radiated data is located at Workshop No. 3, G/F., World-Wide Industrial Centre, 43-47 Shan Mei Street, Fo Tan, Sha Tin, N.T., Hong Kong SAR, China. This test facility and site measurement data have been placed on file with the FCC and IC No. 2042H, CABID is “HKAP01”.

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2.0 SYSTEM TEST CONFIGURATION

2.1 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 device was powered by a USB port (5VDC) during testing.

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 Exhibit 3.0.

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 wooden turntable, which enabled the engineer to maximize emissions through its placement in the three orthogonal axes.

2.2 EUT Exercising Software

The EUT exercise program (BlueTest3 v3.3.13.1423) used during radiated testing was designed to exercise the various system components in a manner similar to a typical use.

2.3 Special Accessories

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

2.4 Measurement Uncertainty

Decision Rule for compliance: For FCC/IC standard, the measured value must be within the limits of applicable standard without accounting for the measurement uncertainty. For EN/IEC/HKTA/HKTC standard, conformity rules will be used as per standard directly excepted EN/IEC 61000-3-2, EN/IEC 61000-3-3, HKTA1004, HKCA1008, HKTA1019, HKTA1020, HKTA1041 and HKTA1044.

Uncertainty and Compliance - Unless the standard specifically states that measured values are to be extended by the measurement uncertainty in determining compliance, all compliance determinations are based on the actual measured value.

2.5 Support Equipment List and Description

Description	Remark
HP 820G1 Notebook	Provided by Intertek
256cm USB Type-C Power Supply Cable	Provided by Applicant
RIG 600 Headset	Provided by Applicant

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3.0 EMISSION RESULTS

Data is included of the worst case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included.

3.1 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any), Average Factor (optional) from the measured reading.

The basic equation with a sample calculation is as follows:

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

where FS = Field Strength in dB μ V/m

RA = Receiver Amplitude (including preamplifier) in dB μ V

AF = Antenna Factor in dB

CF = Cable Attenuation Factor in dB

AG = Amplifier Gain in dB

AV = Average Factor in dB

In the following table(s), the reading shown on the data table reflects the preamplifier gain.

An example for the calculations in the following table is as follows:

$$FS = RR + LF$$

where FS = Field Strength in dB μ V/m

RR = RA - AG - AV in dB μ V

LF = CF + AF in dB

Assume a receiver reading of 52.0 dB μ V is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB are added. The amplifier gain of 29.0 dB and average factor of 5.0 dB are subtracted, giving a field strength of 27.0 dB μ V/m. This value in dB μ V/m was converted to its corresponding level in μ V/m.

RA = 52.0 dB μ V/m

AF = 7.4 dB

RR = 18.0 dB μ V

CF = 1.6 dB

LF = 9.0 dB

AG = 29.0 dB

AV = 5.0 dB

FS = RR + LF

FS = 18.0 + 9.0 = 27.0 dB μ V/m

Level in μ V/m = Common Antilogarithm [(27.0 dB μ V/m)/20] = 22.4 μ V/m

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3.2 Radiated Emission Configuration Photograph

The worst case in radiated emission was found at 7206 MHz and 7440 MHz

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

3.3 Radiated Emission Data

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.

Judgment: Passed by 0.5 dB

3.4 Conducted Emission Configuration Photograph

The worst case in line-conducted emission was found at 0.159 MHz

For electronic filing, the worst-case line-conducted configuration photographs are saved with filename: Setup Photos.pdf.

3.5 Conducted Emission Data

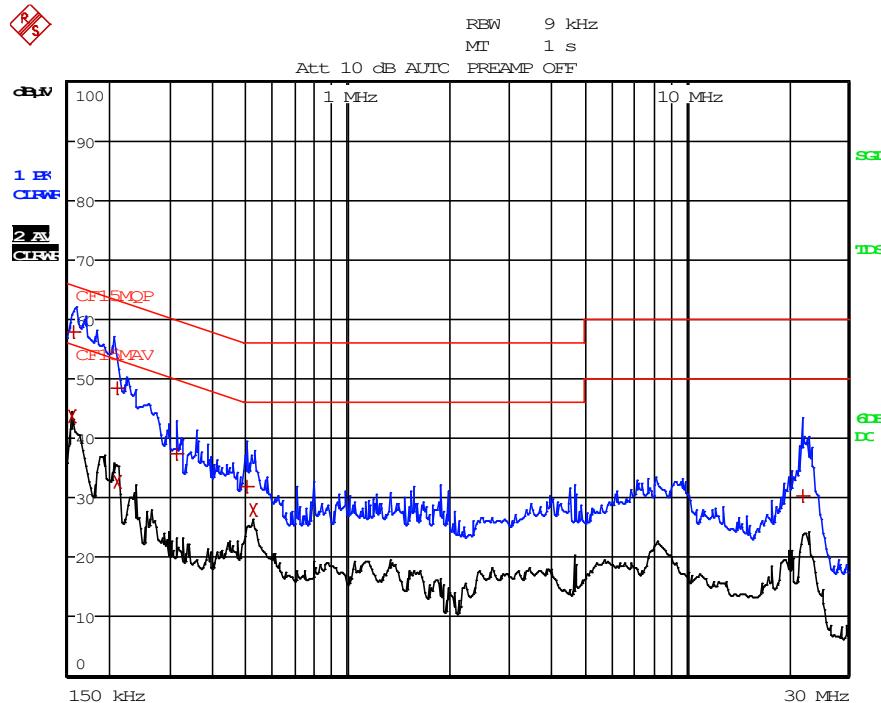
The data on the following page lists the significant emission frequencies, the limit and the margin of compliance. Numbers with a minus sign are below the limit.

Judgment: Pass by 7.5 dB

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CONDUCTED EMISSION

Model: M2PROHD
 Date of Test: June 20, 2024
 Worst-Case Operating Mode: Operating



EDIT PEAK LIST (Final Measurement Results)					
Trace1:	CFL5MQP				
Trace2:	CFL5MAV				
Trace3:	---				
TRACE	FREQUENCY	LEVEL dBuV	DELTA	LIMIT dB	
2	CISPR Average	154.5 kHz	43.78	L1	-11.96
1	Quasi Peak	159 kHz	57.99	L1	-7.51
1	Quasi Peak	213 kHz	48.50	L1	-14.57
2	CISPR Average	213 kHz	32.66	L1	-20.42
1	Quasi Peak	312 kHz	37.35	N	-22.56
1	Quasi Peak	501 kHz	31.77	N	-24.22
2	CISPR Average	523.5 kHz	27.90	N	-18.09
1	Quasi Peak	22.1595 MHz	30.37	N	-29.62

Note: Measurement Uncertainty is $\pm 4.2\text{dB}$ at a level of confidence of 95%.

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RADIATED EMISSIONS

Model: M2PROHD
 Date of Test: June 19, 2024
 Worst-Case Operating Mode: Transmitting (Bluetooth 5.4)

Table 1

Pursuant to FCC Part 15 Section 15.249 / RSS-210 B10.0 Requirement

Lowest Channel

Polari-zation	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Average (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
V	2402.000	94.5	33	29.4	90.9	94.0	-3.1
H	4804.000	42.2	33	34.9	44.1	54.0	-9.9
H	7206.000	48.6	33	37.9	53.5	54.0	-0.5
V	9608.000	33.0	33	40.4	40.4	54.0	-13.6
V	12010.000	29.9	33	40.5	37.4	54.0	-16.6
V	14412.000	34.1	33	40.0	41.1	54.0	-12.9

Polari-zation	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
V	2402.000	114.5	33	29.4	110.9	114.0	-3.1
H	4804.000	48.3	33	34.9	50.2	74.0	-23.8
H	7206.000	55.3	33	37.9	60.2	74.0	-13.8
V	9608.000	43.8	33	40.4	51.2	74.0	-22.8
V	12010.000	43.5	33	40.5	51.0	74.0	-23.0
V	14412.000	48.1	33	40.0	55.1	74.0	-18.9

Notes:

1. Peak Detector Data unless otherwise stated.
2. Average detector is applied according to ANSI C63.10.
3. All measurements were made at 3 meters.
4. Negative value in the margin column shows emission below limit.
5. Horn antenna is used for the emission over 1000MHz.
6. Emissions within the restricted band meets the requirement of FCC Part 15 Section 15.205 / RSS-Gen Section 8.10.
7. Measurement Uncertainty is ± 5.3 dB at a level of confidence of 95%.

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RADIATED EMISSIONS

Model: M2PROHD
 Date of Test: June 20, 2024
 Worst-Case Operating Mode: Transmitting (Bluetooth 5.4)

Table 2

Pursuant to FCC Part 15 Section 15.249 / RSS-210 B10.0 Requirement

Middle Channel

Polari-zation	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Average (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
V	2440.000	93.7	33	29.4	90.1	94.0	-3.9
H	4880.000	41.1	33	34.9	43.0	54.0	-11.0
H	7320.000	45.7	33	37.9	50.6	54.0	-3.4
H	9760.000	33.7	33	40.4	41.1	54.0	-12.9
V	12200.000	30.0	33	40.5	37.5	54.0	-16.5
V	14640.000	34.9	33	38.4	40.3	54.0	-13.7

Polari-zation	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
V	2440.000	113.7	33	29.4	110.1	114.0	-3.9
H	4880.000	47.6	33	34.9	49.5	74.0	-24.5
H	7320.000	52.0	33	37.9	56.9	74.0	-17.1
H	9760.000	45.7	33	40.4	53.1	74.0	-20.9
V	12200.000	43.7	33	40.5	51.2	74.0	-22.8
V	14640.000	48.0	33	38.4	53.4	74.0	-20.6

Notes:

1. Peak Detector Data unless otherwise stated.
2. Average detector is applied according to ANSI C63.10.
3. All measurements were made at 3 meters.
4. Negative value in the margin column shows emission below limit.
5. Horn antenna is used for the emission over 1000MHz.
6. Emissions within the restricted band meets the requirement of FCC Part 15 Section 15.205 / RSS-Gen Section 8.10.
7. Measurement Uncertainty is ± 5.3 dB at a level of confidence of 95%.

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RADIATED EMISSIONS

Model: M2PROHD
 Date of Test: June 20, 2024
 Worst-Case Operating Mode: Transmitting (Bluetooth 5.4)

Table 3

Pursuant to FCC Part 15 Section 15.249 / RSS-210 B10.0 Requirement

Highest Channel

Polari-zation	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Average (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
H	2480.000	94.0	33	29.4	90.4	94.0	-3.6
H	4960.000	46.9	33	34.9	48.8	54.0	-5.2
H	7440.000	48.6	33	37.9	53.5	54.0	-0.5
V	9920.000	30.0	33	40.4	37.4	54.0	-16.6
H	12400.000	30.6	33	40.5	38.1	54.0	-15.9
H	14880.000	35.4	33	38.4	40.8	54.0	-13.2

Polari-zation	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
H	2480.000	114.0	33	29.4	110.4	114.0	-3.6
H	4960.000	50.7	33	34.9	52.6	74.0	-21.4
H	7440.000	55.2	33	37.9	60.1	74.0	-13.9
V	9920.000	42.4	33	40.4	49.8	74.0	-24.2
H	12400.000	44.3	33	40.5	51.8	74.0	-22.2
H	14880.000	48.3	33	38.4	53.7	74.0	-20.3

Notes:

1. Peak Detector Data unless otherwise stated.
2. Average detector is applied according to ANSI C63.10.
3. All measurements were made at 3 meters.
4. Negative value in the margin column shows emission below limit.
5. Horn antenna is used for the emission over 1000MHz.
6. Emissions within the restricted band meets the requirement of FCC Part 15 Section 15.205 / RSS-Gen Section 8.10.
7. Measurement Uncertainty is ± 5.3 dB at a level of confidence of 95%.

TEST REPORT

RADIATED EMISSIONS

Model: M2PROHD
 Date of Test: June 19, 2024
 Worst-Case Operating Mode: Operating

Table 4

Pursuant to FCC Part 15 Section 15.209 / RSS-GEN 8.9 Requirement

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-amp (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
V	30.606	37.7	16	10.0	31.7	40.0	-8.3
V	36.548	38.9	16	10.0	32.9	40.0	-7.1
V	99.113	30.2	16	12.0	26.2	43.5	-17.3
H	213.936	26.9	16	17.0	27.9	43.5	-15.6
V	393.993	20.8	16	25.0	29.8	46.0	-16.2
V	731.068	18.4	16	30.0	32.4	46.0	-13.6

Notes:

1. Peak and Quasi-Peak Detector Data unless otherwise stated.
2. All measurements were made at 3 meters.
3. Negative value in the margin column shows emission below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emissions within the restricted band meets the requirement of FCC Part 15 Section 15.205 / RSS-Gen Section 8.10.
6. Measurement Uncertainty is ± 5.3 dB at a level of confidence of 95%.

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4.0 EQUIPMENT PHOTOGRAPHS

For electronic filing, the photographs are saved with filename: External Photos.pdf and Internal Photos.pdf.

5.0 PRODUCT LABELLING

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

6.0 TECHNICAL SPECIFICATIONS

For electronic filing, the block diagram and schematic of the tested EUT are saved with filename: Block.pdf and Circuit.pdf respectively.

7.0 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 and Canada.

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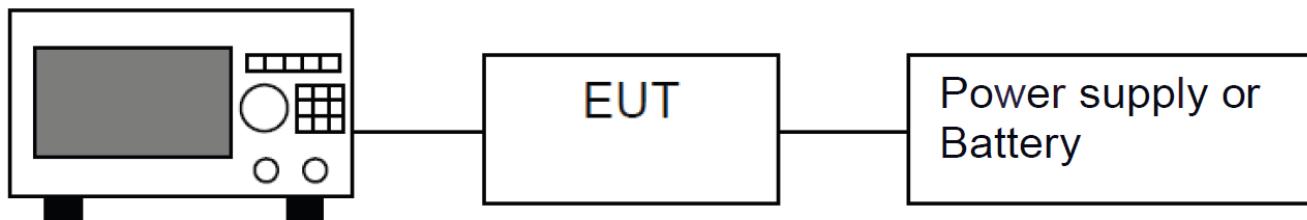
8.0 MISCELLANEOUS INFORMATION

The miscellaneous information includes details of the test procedure and measured bandwidth / calculation of factor such as pulse desensitization and averaging factor (calculation and timing diagram).

8.1 Radiated Emission on the Bandedge

From the following plots, they show that the fundamental emissions are confined in the specified band (2400MHz to 2483.5MHz). In case of the fundamental emissions are within two standard bandwidths from the bandedge, the delta measurement technique is used for determining bandedge compliance. Standard bandwidth is the bandwidth specified by ANSI C63.10 (2013) for frequency being measured.

Emissions radiated outside of the specified frequency bands, except harmonics, are attenuated by 50dB below the level of the fundamental or to the general radiated emissions limits in Section 15.209 / RSS-Gen 8.9, whichever is the lesser attenuation, which meet the requirement of Part 15.249(d) / RSS-210 B.10.

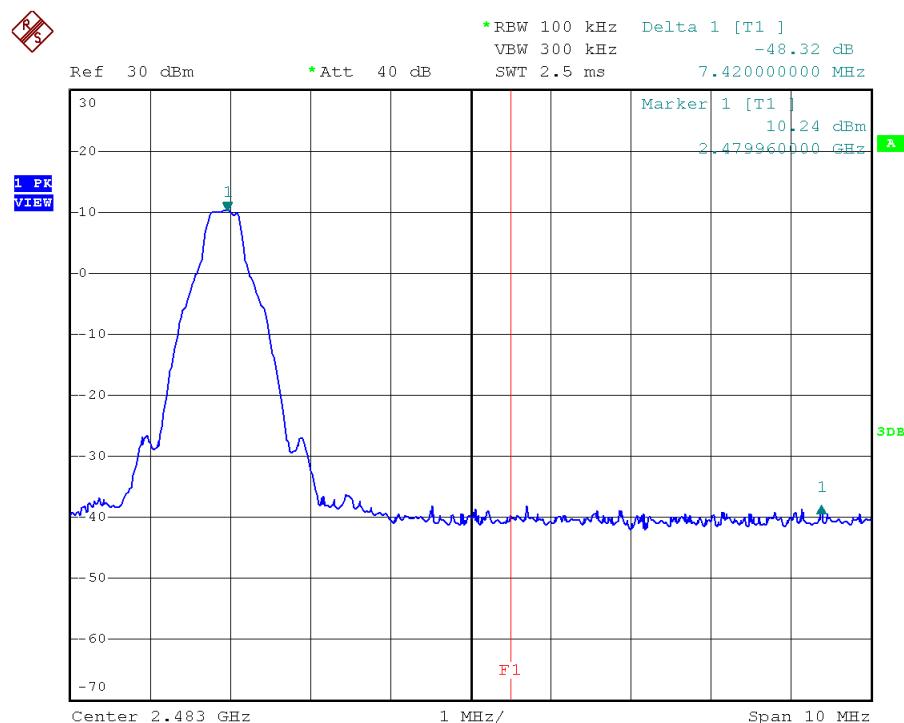
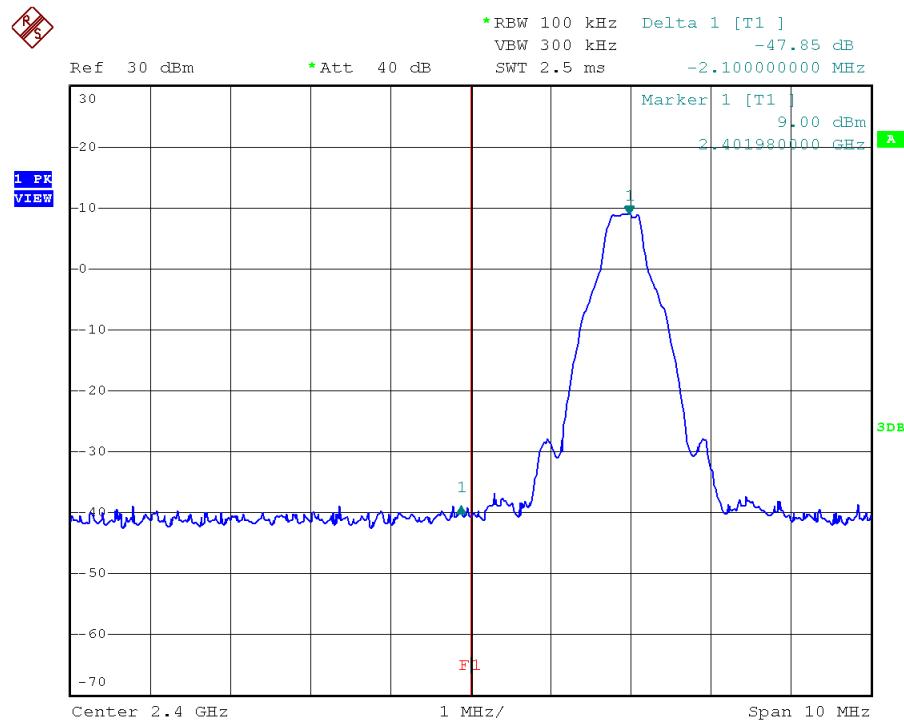


Spectrum Analyzer

Block diagram of Test setup

TEST REPORT

PEAK MEASUREMENT (Bluetooth 5.4)



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PEAK MEASUREMENT (Bluetooth 5.4)

Bandedge compliance is determined by applying marker-delta method, i.e. (Bandedge Plot).

Lower Bandedge

Peak Resultant Field Strength = Fundamental Emissions (Peak Value) – delta from the plot

$$\begin{aligned} &= 110.9 \text{ dB}\mu\text{V/m} - 47.9 \text{ dB} \\ &= 63.0 \text{ dB}\mu\text{V/m} \end{aligned}$$

Average Resultant Field Strength = Fundamental Emissions (Average Value) – delta from the plot

$$\begin{aligned} &= 90.9 \text{ dB}\mu\text{V/m} - 47.9 \text{ dB} \\ &= 43.0 \text{ dB}\mu\text{V/m} \end{aligned}$$

Upper Bandedge

Peak Resultant Field Strength = Fundamental Emissions (Peak Value) – delta from the plot

$$\begin{aligned} &= 110.4 \text{ dB}\mu\text{V/m} - 48.3 \text{ dB} \\ &= 62.1 \text{ dB}\mu\text{V/m} \end{aligned}$$

Average Resultant Field Strength = Fundamental Emissions (Average Value) – delta from the plot

$$\begin{aligned} &= 90.4 \text{ dB}\mu\text{V/m} - 48.3 \text{ dB} \\ &= 42.1 \text{ dB}\mu\text{V/m} \end{aligned}$$

The resultant field strength meets the general radiated emission limit in Section 15.209, which does not exceed 74 dB μ V/m (Peak Limit) and 54 dB μ V/m (Average Limit).

8.2 Discussion of Pulse Desensitization

Pulse desensitivity is not applicable for this device. The effective period (Teff) is approximately 625 μ s for a digital “1” bit which illustrated on technical specification, with a resolution bandwidth (3dB) of 3MHz, so the pulse desensitivity factor is 0dB.

8.3 Calculation of Average Factor

Not Applicable

TEST REPORT

8.4 Emissions Test Procedures

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

The transmitting equipment under test (EUT) is placed on a wooden turntable which is four feet in diameter and approximately 0.8m in height above the ground plane for emission measurement at or below 1GHz and 1.5m in height above the ground plane for emission measurement above 1GHz. 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 axis to obtain maximum emission levels. The antenna height and polarization are also varied during the testing to search for maximum signal levels. The height of the antenna is varied from one to four meters.

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 Exhibit 8.3.

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.

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 were made as described in ANSI C63.10 (2013).

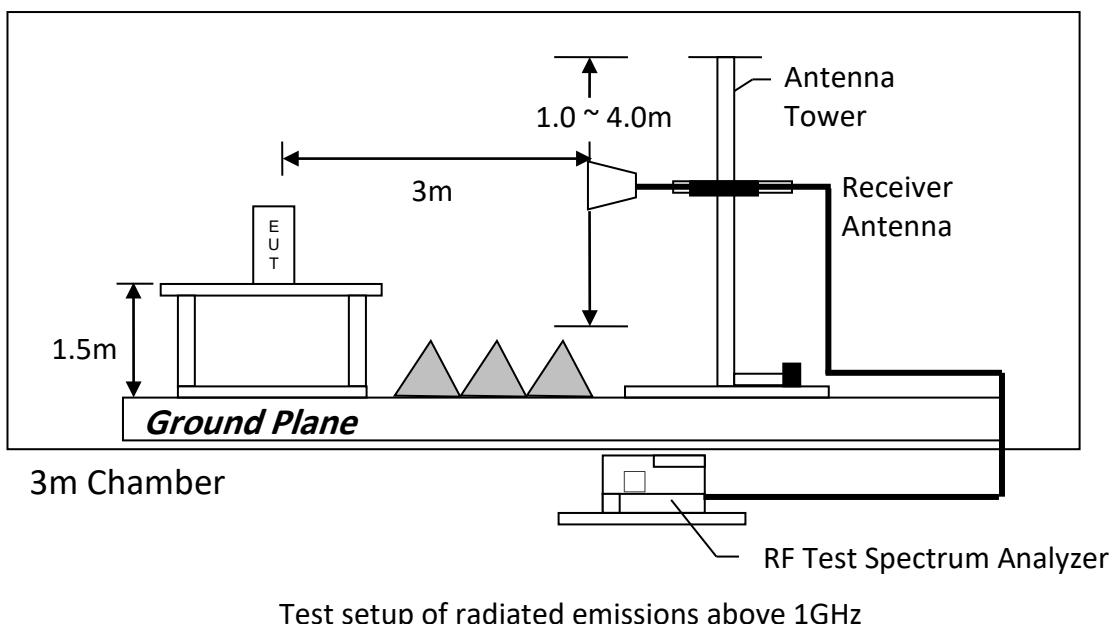
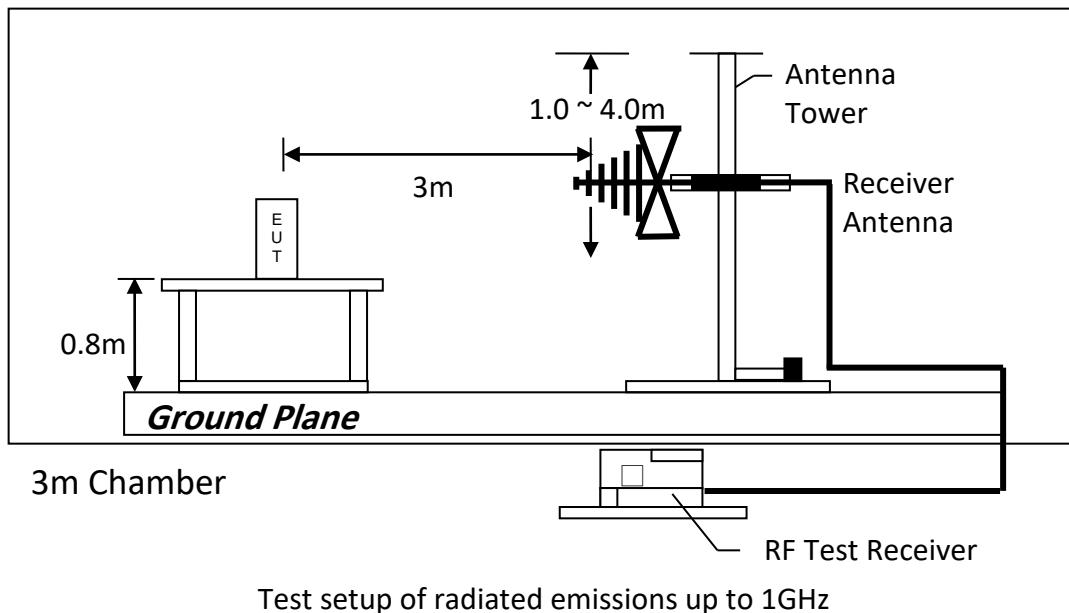
The IF bandwidth used for measurement of radiated signal strength was 100 kHz or greater when frequency is below 1000 MHz. Where pulsed transmissions of short enough pulse duration warrant, a greater bandwidth is selected according to the recommendations of Hewlett Packard Application Note 150-2. A discussion of whether pulse desensitivity is applicable to this unit is included in this report (See Exhibit 8.1). Above 1000 MHz, a resolution bandwidth of 3 MHz is used.

Transmitter measurements are normally conducted at a measurement distance of three meters. However, to assure low enough noise floor in the forbidden 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, unless otherwise reported. Measurements taken at a closer distance are so marked.

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8.4.1 Radiated Emission Test Setup

The figure below shows the test setup, which is utilized to make these measurements.



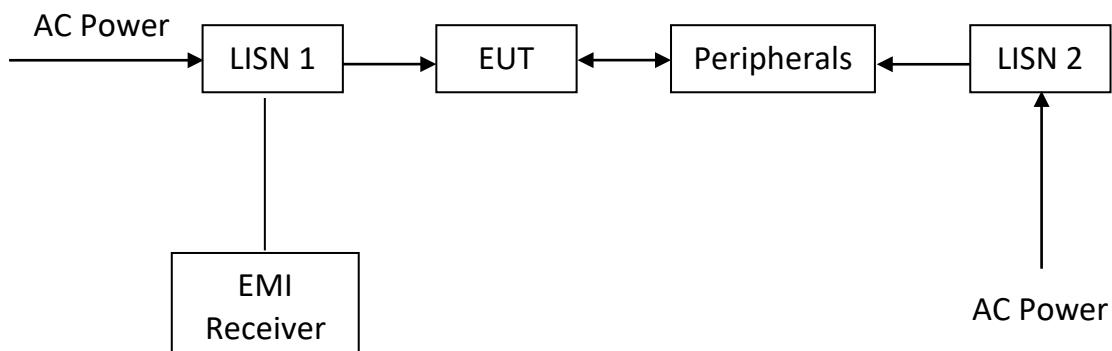
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8.4.2 Conducted Emission Test Procedures

For tabletop equipment, the EUT along with its peripherals were placed on a 1.0m(W)×1.5m(L) and 0.8m in height wooden table. For floor-standing equipment, the EUT and all cables were insulated, if required, from the ground plane by up to 12 mm of insulating material. The EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane. The EUT was connected to power mains through a line impedance stabilization network (LISN), which provided 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room. The excess power cable between the EUT and the LISN was bundled.

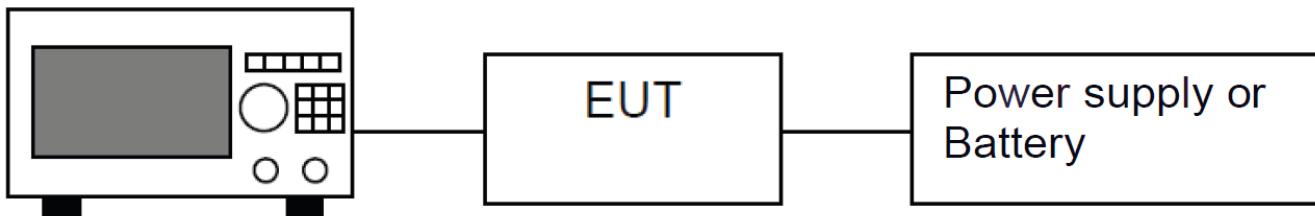
All connecting cables of EUT and peripherals were moved to find the maximum emission.

8.4.3 Conducted Emission Test Setup



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8.5 Occupied Bandwidth



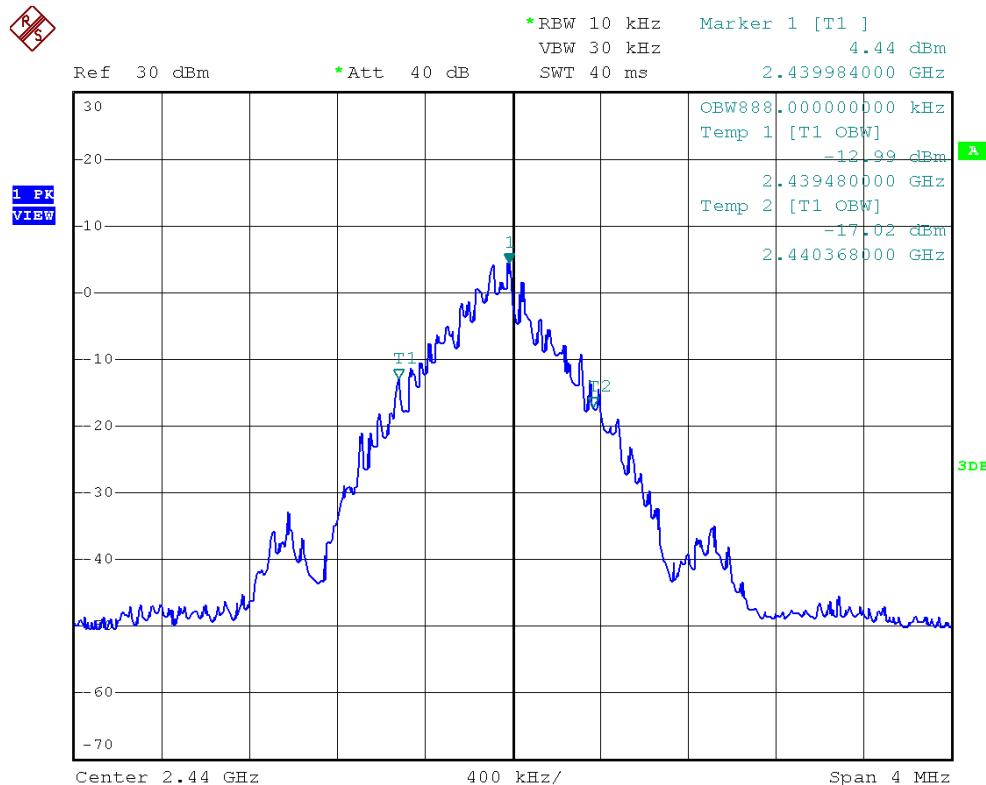
Spectrum Analyzer

Block diagram of Test setup

Occupied Bandwidth Results: (Bluetooth 5.4)

Bluetooth (MHz)	Occupied Bandwidth (kHz)
Low Channel: 2402	888
Middle Channel: 2440	888
High Channel: 2480	880

The worst case is shown as below:



TEST REPORT

9.0 CONFIDENTIALITY REQUEST

For electronic filing, a preliminary copy of the confidentiality request is saved with filename: Request.pdf.

10.0 EQUIPMENT LIST

1) Radiated Emissions Test

Equipment	EMI Test Receiver (9kHz to 26.5GHz)	Biconical Antenna (30MHz to 300MHz)	Log Periodic Antenna
Registration No.	EW-3156	EW-3242	EW-3243
Manufacturer	ROHDE SCHWARZ	EMCO	EMCO
Model No.	ESR26	3110C	3148B
Calibration Date	January 31, 2024	April 26, 2022	October 30, 2022
Calibration Due Date	January 31, 2025	July 26, 2024	July 30, 2024

Equipment	Double Ridged Guide Antenna (1GHz - 18GHz)	Active Loop Antenna (H-field) (9kHz to 30MHz)	RF Preamplifier (9kHz to 6000MHz)
Registration No.	EW-0194	EW-3326	EW-3006b
Manufacturer	EMCO	EMCO	SCHWARZBECK
Model No.	3115	6502	BBV9718
Calibration Date	May 10, 2023	January 05, 2024	October 20, 2023
Calibration Due Date	November 10, 2024	July 05, 2025	October 20, 2024

Equipment	2.4GHz Notch Filter	14m Double Shield RF Cable (9kHz - 6GHz)	RF Cable 14m (1GHz to 26.5GHz)
Registration No.	EW-3435	EW-2376	EW-2781
Manufacturer	MICROWAVE	RADIALL	GREATBILLION
Model No.	N0324413	n m/br56/bnc m 14m	SMA m/SHF5MPU /SMA m ra14m,26G
Calibration Date	September 26, 2023	September 19, 2023	January 16, 2024
Calibration Due Date	September 26, 2024	September 19, 2024	January 16, 2025

Equipment	12 metre RF Cable (1-40)GHz	Pyramidal Horn Antenna
Registration No.	EW-2774	EW-0905
Manufacturer	GREATBILLION	EMCO
Model No.	SMA m-m ra 12m 40G outdoor	3160-09
Calibration Date	January 16, 2024	December 15, 2023
Calibration Due Date	January 16, 2025	June 15, 2025

TEST REPORT

2) Conducted Emissions Test

Equipment	RF Cable 240cm (RG142) (9kHz to 30MHz)	Artificial Mains Network	EMI Test Receiver (9kHz to 3GHz)
Registration No.	EW-2454	EW-3360	EW-3095
Manufacturer	RADIALL	ROHDE SCHWARZ	ROHDE SCHWARZ
Model No.	Bnc m st / 142 / bnc mra 240cm	ENV-216	ESCI
Calibration Date	June 13, 2023	April 07, 2024	January 18, 2024
Calibration Due Date	September 13, 2024	April 07, 2025	January 18, 2025

3) Bandedge & OBW Measurement

Equipment	EMI Test Receiver (9kHz to 3GHz)
Registration No.	EW-3095
Manufacturer	ROHDE SCHWARZ
Model No.	ESCI
Calibration Date	January 18, 2024
Calibration Due Date	January 18, 2025

4) Control Software for Radiated Emission

Software Information	
Software Name	EMC32
Manufacturer	ROHDE SCHWARZ
Software version	10.50.40

END OF TEST REPORT