

TEST REPORT

Report No.: 24110321HKG-001

The NOCO Company

Application For Certification
(Original Grant)

FCC ID: 2BH4L-XDS3

3-In-1 Wireless Charging Stand

Prepared and Checked by:


Approved by:

Signed on File
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Engineer

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Assistant Manager
Date: May 26, 2025

TEST REPORT

GENERAL INFORMATION

Grantee:	The NOCO Company
Grantee Address:	30339 Diamond Parkway, #102, Glenwillow, Ohio 44139, USA.
Brand Name:	
Model:	XDS3
Type of EUT:	Wireless Power Transfer Device - Transmitter
Description of EUT:	3-In-1 Wireless Charging Stand
Serial Number:	Not Labelled
FCC ID:	2BH4L-XDS3
Date of Sample Submitted:	November 11, 2024
Date of Test:	November 11, 2024 to January 08, 2025
Report No.:	24110321HKG-001
Report Date:	May 26, 2025
Environmental Conditions:	Temperature: +10 to 40°C Humidity: 10 to 90%
Conclusion:	Test was conducted by client submitted sample. The submitted sample as received complied with the 47 CFR Part 15 Certification.

TEST REPORT

SUMMARY OF TEST RESULT

Test Specification	Reference	Results
Transmitter Power Line Conducted Emissions	15.207	Complied
Radiated Emission	15.249, 15.209	Complied
Radiated Emission on the Bandedge		
Radiated Emission in Restricted Bands	15.205	Complied

The equipment under test is found to be complying with the following standards:
FCC Part 15, October 1, 2023 Edition

- Note:
1. The EUT uses a permanently attached antenna which, in accordance to section 15.203, is considered sufficient to comply with the pervisions of this section.
 2. Pursuant to FCC part 15 Section 15.215(c), the 20 dB 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.

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1.0 GENERAL DESCRIPTION

1.1 Product Description

The Equipment Under Test (EUT), is a 3-in-1 wireless charger that is designed to work on table. The EUT is powered by 120VAC, the smartphone charge pad is operated at frequency range of 127kHz to 360kHz, the earpod charge pad is operated at frequency range of 113kHz to 160kHz while the smartwatch charge pad is operated at frequency 326.5kHz. The maximum wireless power transmission for smartphone charge pad is 15W, the maximum wireless power transmission for earpod charge pad is 5W while that for smartwatch charge pad is 5W.

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 transmitter.

The receiver for this transmitter is exempted from the Part 15 technical rules per 15.101(b).

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.

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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 120VAC.

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 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 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.

There are different testing conditions for this EUT, standby mode, charging with the smartphone charge pad only, charging with the earpod charge pad only, charging with the smartwatch charge pad only, charging with either 2 charge pads only and charging with full load. Only the worst-case data is shown in this report.

2.2 EUT Exercising Software

There was no special software to exercise the device. Once the unit is powered up, it transmits the RF Signal continuously.

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.

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2.5 Support Equipment List and Description

Description	Remark
An AC adaptor (Input: 100-240VAC 50/60Hz 1.0A; Output: 5.0V 3.0A, 9.0V 3.0A, 12.0V 3.0A, 15.0V 3.0A, 20.0V 2.25A, PPS:5.0-11.0V 4.05A)	Provided by Applicant
2.03m USB Type-C Power Supply Cable	Provided by Applicant
15W Loading	Provided by Intertek
iPhone	Provided by Intertek
5W Loading	Provided by Applicant
Airpod	Provided by Intertek
iWatch	Provided by Intertek

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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 + 9 = 27 dB μ V/m	

Level in μ V/m = Common Antilogarithm [(27 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 477.655 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 9.8 dB

3.4 Conducted Emission Configuration Photograph

The worst case in line-conducted emission was found at 24.324 MHz

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

3.5 Conducted Emission Data

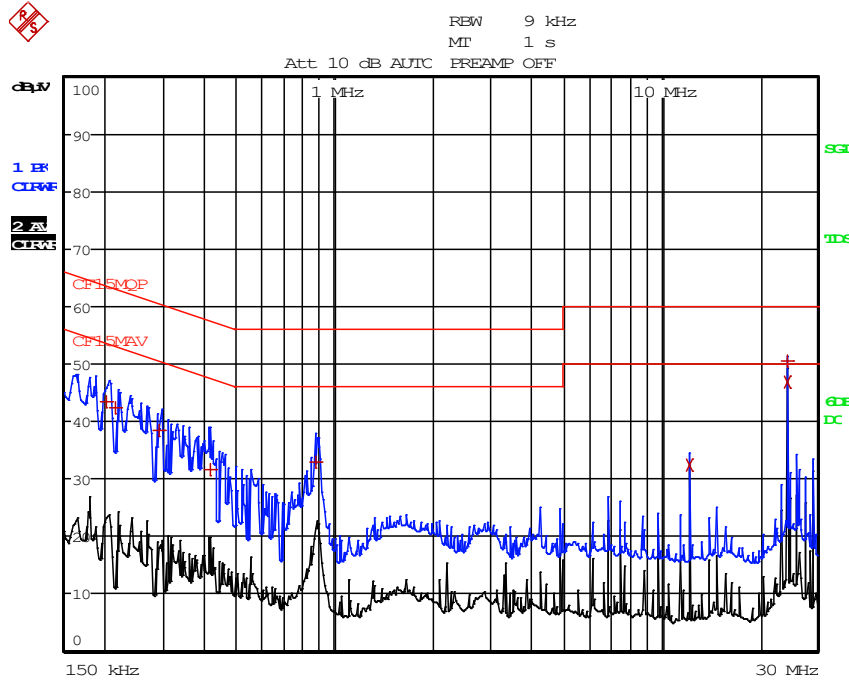
The plot(s) and data in the following pages list the significant emission frequencies, the limit and the margin of compliance.

Judgment: Pass by 0.5 dB

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CONDUCTED EMISSION

Model: XDS3
Date of Test: January 06, 2025
Worst-Case Operating Mode: Standby Mode



Note: Measurement Uncertainty is ± 4.2 dB at a level of confidence of 95%.

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CONDUCTED EMISSION (CONT'D)

Model: XDS3

Date of Test: January 06, 2025

Worst-Case Operating Mode: Standby Mode

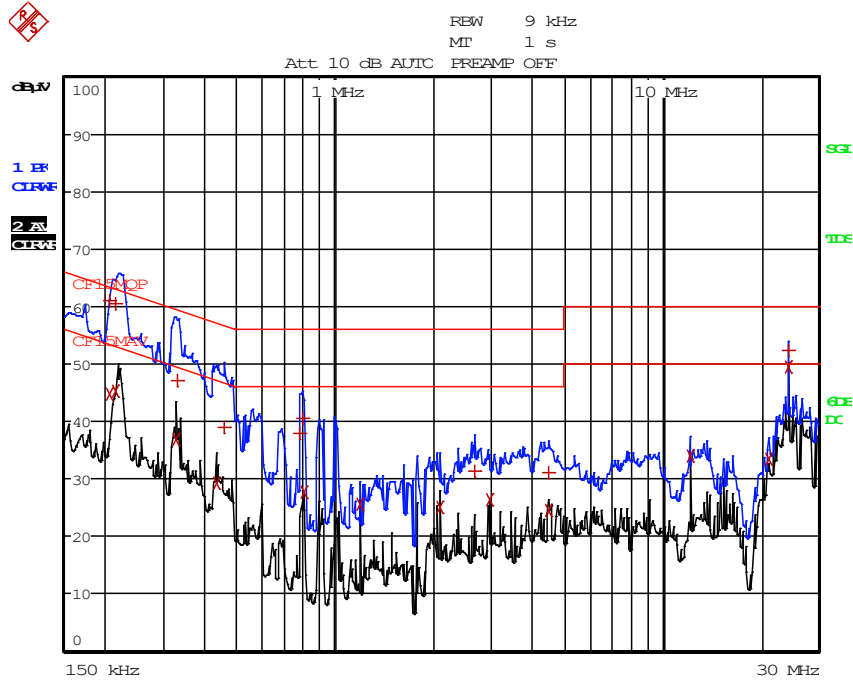
EDIT PEAK LIST (Final Measurement Results)				
Trace1:		CF15MQP		
Trace2:		CF15MAV		
Trace3:		---		
TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB	
1 Quasi Peak	204 kHz	43.56 L1	-19.88	
1 Quasi Peak	217.5 kHz	42.41 N	-20.49	
1 Quasi Peak	294 kHz	38.50 L1	-21.90	
1 Quasi Peak	415.5 kHz	31.67 N	-25.86	
1 Quasi Peak	879 kHz	32.96 L1	-23.03	
2 CISPR Average	12.1605 MHz	32.46 N	-17.53	
1 Quasi Peak	24.324 MHz	50.64 N	-9.35	
2 CISPR Average	24.324 MHz	46.85 N	-3.14	

Note: Measurement Uncertainty is ±4.2dB at a level of confidence of 95%.

TEST REPORT

CONDUCTED EMISSION

Model: XDS3
Date of Test: January 06, 2025
Worst-Case Operating Mode: Charging with Full Load



Note: Measurement Uncertainty is ± 4.2 dB at a level of confidence of 95%.

TEST REPORT

CONDUCTED EMISSION (CONT'D)

Model: XDS3
Date of Test: January 06, 2025
Worst-Case Operating Mode: Charging with Full Load

EDIT PEAK LIST (Final Measurement Results)				
Trace1:		CF15MQP		
Trace2:		CF15MAV		
Trace3:		---		
TRACE	FREQUENCY	LEVEL dBμV		DELTA LIMIT dB
1 Quasi Peak	208.5 kHz	61.12 N		-2.13
2 CISPR Average	208.5 kHz	44.80 N		-8.46
1 Quasi Peak	217.5 kHz	60.49 N		-2.41
2 CISPR Average	217.5 kHz	45.22 N		-7.69
2 CISPR Average	325.5 kHz	36.85 Ll		-12.70
1 Quasi Peak	334.5 kHz	47.23 Ll		-12.10
2 CISPR Average	433.5 kHz	29.14 Ll		-18.03
1 Quasi Peak	456 kHz	38.98 Ll		-17.78
1 Quasi Peak	780 kHz	37.83 N		-18.16
1 Quasi Peak	793.5 kHz	40.57 N		-15.42
2 CISPR Average	802.5 kHz	27.75 N		-18.24
2 CISPR Average	1.194 MHz	25.65 N		-20.34
2 CISPR Average	2.0895 MHz	25.13 N		-20.86
1 Quasi Peak	2.6835 MHz	31.47 Ll		-24.52
2 CISPR Average	2.9805 MHz	26.47 N		-19.52
1 Quasi Peak	4.4745 MHz	31.16 Ll		-24.83
2 CISPR Average	4.4745 MHz	24.56 Ll		-21.43
2 CISPR Average	12.1605 MHz	33.91 Ll		-16.08
2 CISPR Average	21.2235 MHz	33.37 Ll		-16.62
1 Quasi Peak	24.324 MHz	52.24 N		-7.75

EDIT PEAK LIST (Final Measurement Results)				
Trace1:		CF15MQP		
Trace2:		CF15MAV		
Trace3:		---		
TRACE	FREQUENCY	LEVEL dBμV		DELTA LIMIT dB
2 CISPR Average	24.324 MHz	49.49 N		-0.50

Note: Measurement Uncertainty is ± 4.2 dB at a level of confidence of 95%.

TEST REPORT

RADIATED EMISSIONS

Model: XDS3
Date of Test: November 27, 2024
Worst-Case Operating Mode: Standby Mode

Table 1
Pursuant to FCC Part 15 Section 15.209 Requirement

Frequency (MHz)	Read Level (dBμV)	MaxPeak (dBμV/m)	Quasi-Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.127828	58.41	---	69.81	105.47	-35.66	100.0	H	166.0	11.4
0.140687	49.20	---	60.60	104.64	-44.04	100.0	H	298.0	11.4
0.325369	47.50	58.90	---	97.36	-38.46	100.0	H	20.0	11.4
0.383492	39.18	---	50.58	95.93	-45.35	100.0	H	9.0	11.4
0.649988	39.75	51.15	---	71.35	-20.20	100.0	H	20.0	11.4
0.978338	33.00	44.40	---	67.80	-23.39	100.0	H	20.0	11.4

- 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. Loop antenna is used for the emissions below 30MHz.
 5. Emissions within the restricted band meets the requirement of FCC Part 15 Section 15.205.
 6. Measurement Uncertainty is ± 5.3 dB at a level of confidence of 95%.
 7. Corr. (dB/m) = Antenna Factor (dB) + Cable Loss (dB)
Max Peak (dBμV/m) or Quasi-Peak (dBμV/m) = Corr. (dB/m) + Read Level (dBμV)
Margin (dB) = Max Peak (dBμV/m) – Limit (dBμV/m) or Quasi-Peak (dBμV/m) – Limit (dBμV/m)

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RADIATED EMISSIONS

Model: XDS3
Date of Test: November 27, 2024
Worst-Case Operating Mode: Charging with Full Load

Table 2
Pursuant to FCC Part 15 Section 15.209 Requirement

Frequency (MHz)	Read Level (dBμV)	MaxPeak (dBμV/m)	Quasi-Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.117677	78.81	---	90.21	106.19	-15.99	100.0	H	187.0	11.4
0.127826	68.64	---	80.04	105.47	-25.43	100.0	H	218.0	11.4
0.351488	53.97	65.37	---	96.69	-31.31	100.0	H	185.0	11.4
0.383478	47.82	---	59.22	95.93	-36.71	100.0	H	227.0	11.4
0.582825	42.31	53.71	---	72.29	-18.58	100.0	H	355.0	11.4
0.638794	38.91	50.31	---	71.49	-21.18	100.0	H	228.0	11.4

- 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. Loop antenna is used for the emissions below 30MHz.
 5. Emissions within the restricted band meets the requirement of FCC Part 15 Section 15.205.
 6. Measurement Uncertainty is ± 5.3 dB at a level of confidence of 95%.
 7. Corr. (dB/m) = Antenna Factor (dB) + Cable Loss (dB)
Max Peak (dBμV/m) or Quasi-Peak (dBμV/m) = Corr. (dB/m) + Read Level (dBμV)
Margin (dB) = Max Peak (dBμV/m) – Limit (dBμV/m) or Quasi-Peak (dBμV/m) – Limit (dBμV/m)

TEST REPORT

RADIATED EMISSIONS

Model: XDS3
Date of Test: November 27, 2024
Worst-Case Operating Mode: Standby Mode

Table 3
Pursuant to FCC Part 15 Section 15.209 Requirement

Frequency (MHz)	Read Level (dBμV)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
417.030000	8.73	28.53	46.00	-17.47	100.0	H	0.0	19.8
429.397500	13.21	33.01	46.00	-12.99	100.0	H	176.0	19.8
453.890000	13.47	33.27	46.00	-12.73	100.0	H	359.0	19.8
478.382500	14.43	35.03	46.00	-10.97	100.0	H	359.0	20.6
527.125000	7.76	30.26	46.00	-15.74	100.0	V	245.0	22.5
551.617500	7.13	30.53	46.00	-15.47	100.0	V	112.0	23.4

- NOTES:
1. 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. Loop antenna is used for the emissions below 30MHz.
 5. Emissions within the restricted band meets the requirement of FCC Part 15 Section 15.205.
 6. Measurement Uncertainty is ± 5.3 dB at a level of confidence of 95%.
 7. $\text{Corr. (dB/m)} = \text{Antenna Factor (dB)} + \text{Cable Loss (dB)}$
 $\text{Max Peak (dB}\mu\text{V/m) or Quasi-Peak (dB}\mu\text{V/m)} = \text{Corr. (dB/m)} + \text{Read Level (dB}\mu\text{V)}$
 $\text{Margin (dB)} = \text{Max Peak (dB}\mu\text{V/m)} - \text{Limit (dB}\mu\text{V/m) or Quasi-Peak (dB}\mu\text{V/m)} - \text{Limit (dB}\mu\text{V/m)}$

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RADIATED EMISSIONS

Model: XDS3
Date of Test: November 27, 2024
Worst-Case Operating Mode: Charging with Full Load

Table 4
Pursuant to FCC Part 15 Section 15.209 Requirement

Frequency (MHz)	Read Level (dBμV)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
367.560000	13.48	31.88	46.00	-14.12	100.0	H	247.0	18.4
416.423750	11.79	31.59	46.00	-14.41	100.0	H	19.0	19.8
428.670000	14.83	34.63	46.00	-11.37	100.0	H	357.0	19.8
453.283750	12.49	32.29	46.00	-13.71	100.0	H	26.0	19.8
477.655000	15.56	36.16	46.00	-9.84	100.0	H	204.0	20.6
563.500000	6.67	29.97	46.00	-16.03	100.0	V	81.0	23.3

- NOTES: 1. 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. Loop antenna is used for the emissions below 30MHz.
5. Emissions within the restricted band meets the requirement of FCC Part 15 Section 15.205.
6. Measurement Uncertainty is ± 5.3 dB at a level of confidence of 95%.
7. Corr. (dB/m) = Antenna Factor (dB) + Cable Loss (dB)
Max Peak (dBμV/m) or Quasi-Peak (dBμV/m) = Corr. (dB/m) + Read Level (dBμV)
Margin (dB) = Max Peak (dBμV/m) – Limit (dBμV/m) or Quasi-Peak (dBμV/m) – Limit (dBμV/m)

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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 electronics 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.

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8.0 MISCELLANEOUS INFORMATION

The miscellaneous information includes details of the test procedure and measured bandwidth.

8.1 Measured Bandwidth

Pursuant to FCC Part 15 Section 15.215(c), the 20dB bandwidth of the emission was contained within the frequency band designed (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.

8.2 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. For line conducted emissions, the range scanned is 150 kHz to 30 MHz.

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).

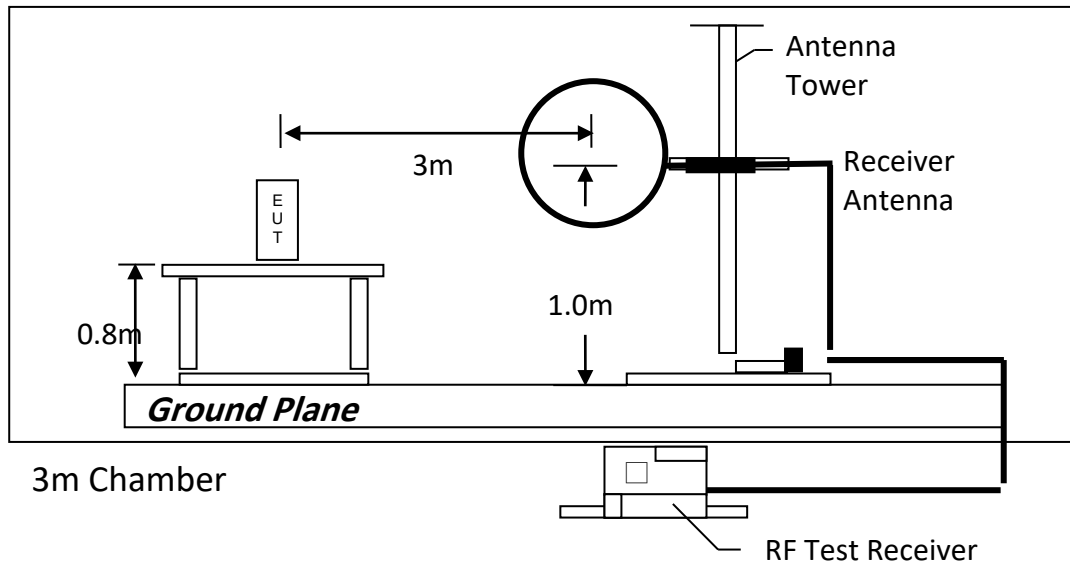
The IF bandwidth used for measurement of radiated signal strength was 100 kHz or greater when frequency is below 1000 MHz. Where pulsed transmissions of short enough pulse duration warrant, a greater bandwidth is selected according to the recommendations of Hewlett Packard Application Note 150-2. A discussion 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 1 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.

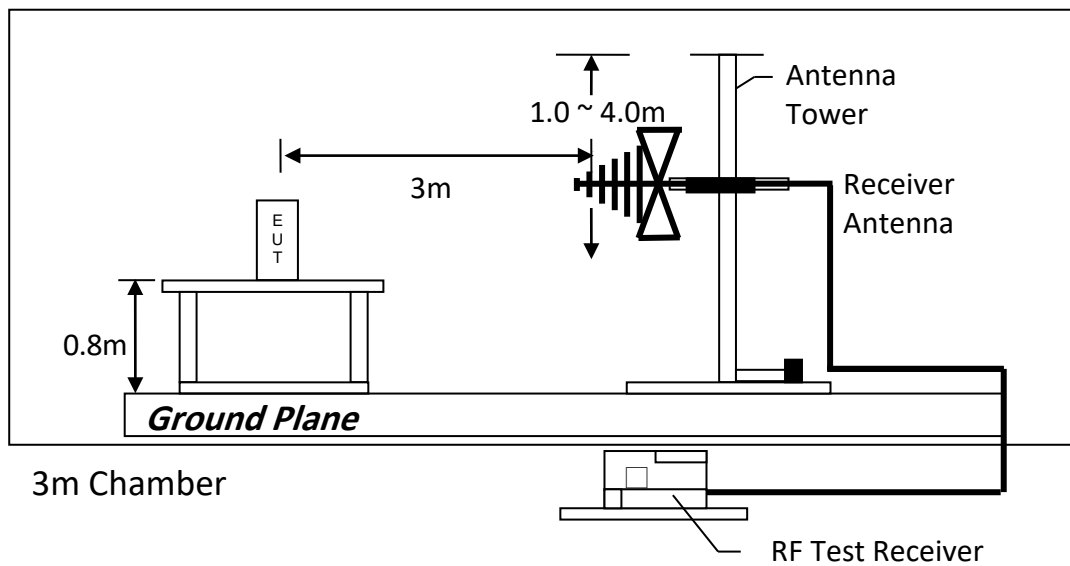
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8.2.1 Radiated Emission Test Setup

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



Test setup of radiated emissions up to 30MHz



Test setup of radiated emissions above 1GHz

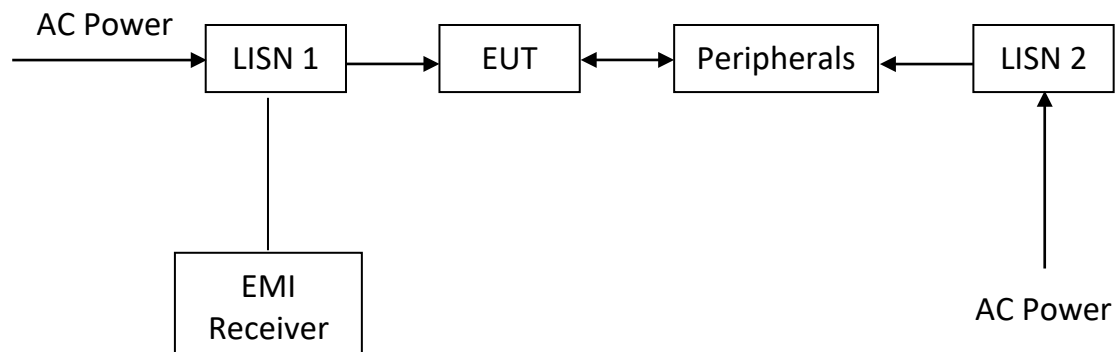
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8.2.2 Conducted Emission Test Procedures

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.

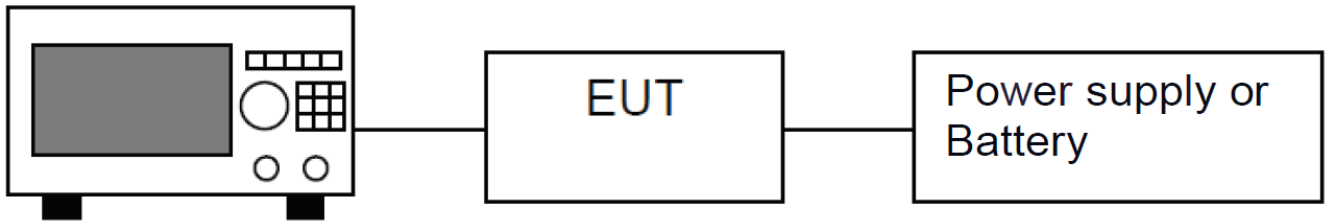
All connecting cables of EUT and peripherals were moved to find the maximum emission.

8.2.3 Conducted Emission Test Setup



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8.3 Occupied Bandwidth



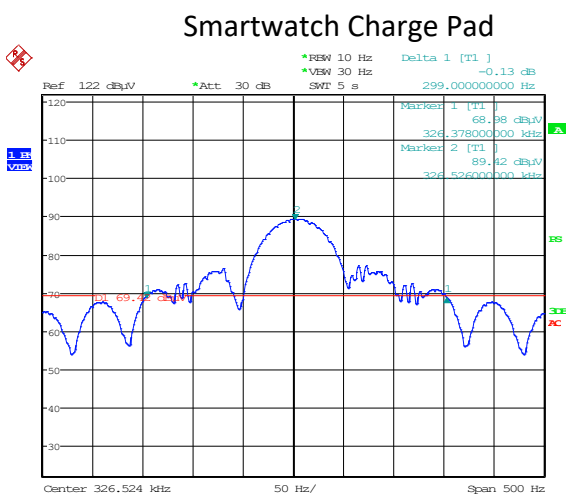
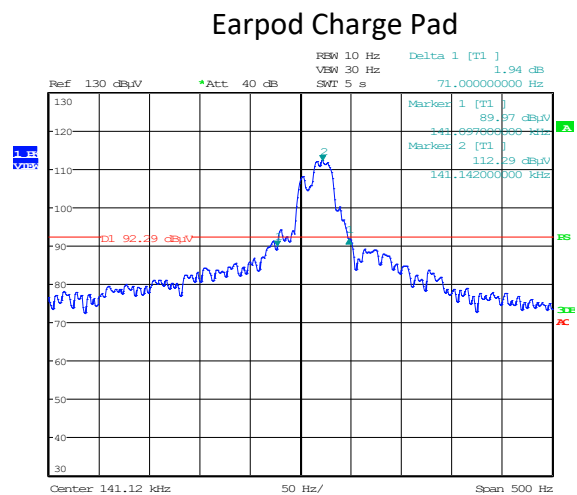
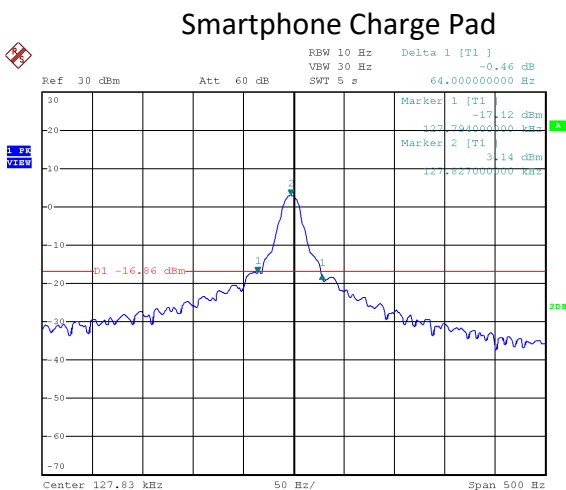
Spectrum Analyzer

Block diagram of Test setup

Occupied Bandwidth Results: Standby Mode

Frequency (kHz)	Occupied Bandwidth (Hz)
127.8	64
141.1	71
326.5	299

The worst case is shown as below

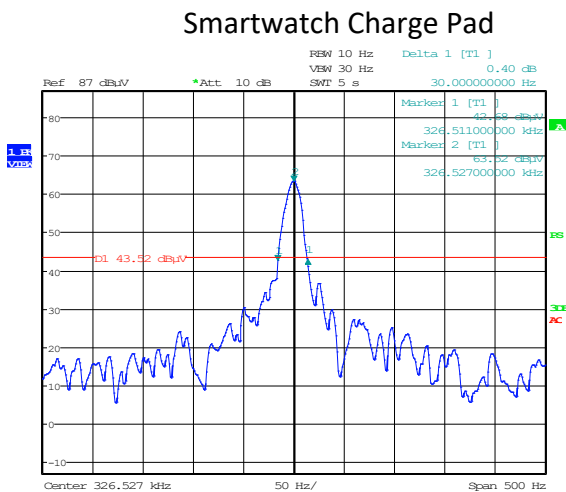
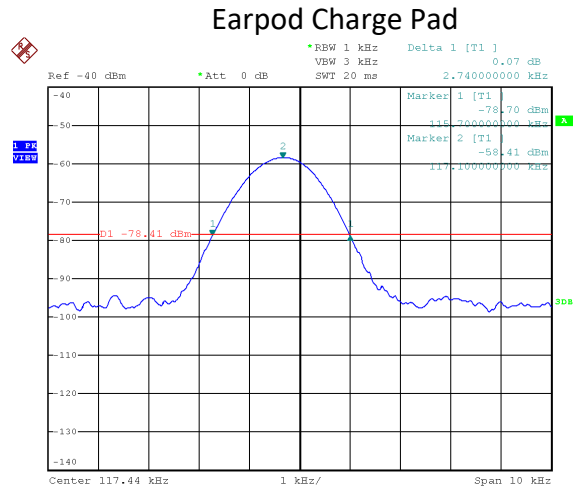
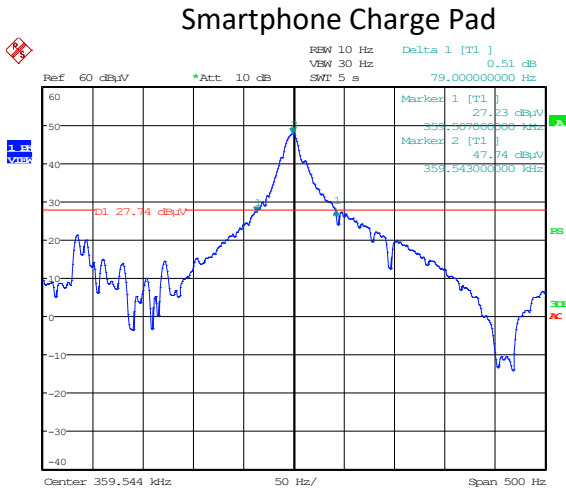


TEST REPORT

Occupied Bandwidth Results: Charging with Full Load

Frequency (kHz)	Occupied Bandwidth (Hz)
117.1	2740
326.5	30
359.5	79

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	ROHDESCHWARZ	EMCO	EMCO
Model No.	ESR26	3110C	3148B
Calibration Date	January 31, 2024	July 30, 2024	July 30, 2024
Calibration Due Date	January 31, 2025	July 30, 2026	January 30, 2026

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	February 10, 2025	July 05, 2025	January 20, 2025

Equipment	14m Double Shield RF Cable (20MHz - 6GHz)	RF Cable 14m (1GHz to 26.5GHz)	12 metre RF Cable (1-40)GHz
Registration No.	EW-2505	EW-2781	EW-2774
Manufacturer	RADIALL	GREATBILLION	GREATBILLION
Model No.	nm / br5d / sma 14m	SMA m/SHF5MPU /SMA m ra14m,26G	SMA m-m ra 12m 40G outdoor
Calibration Date	October 05, 2023	January 16, 2024	January 16, 2024
Calibration Due Date	April 05, 2025	January 16, 2025	January 16, 2025

Equipment	RF Cable 240cm (RG142) - (9kHz to 30MHz)	Pyramidal Horn Antenna
Registration No.	EW-2454	EW-0905
Manufacturer	RADIALL	EMCO
Model No.	bnc m st / 142 /bnc m ra 240cm	3160-09
Calibration Date	June 20, 2024	December 15, 2023
Calibration Due Date	June 20, 2025	June 15, 2025

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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	ROHDESCHWARZ	ROHDESCHWARZ
Model No.	Bnc m st / 142 / bnc mra 240cm	ENV-216	ESCI
Calibration Date	June 20, 2024	April 07, 2024	January 18, 2024
Calibration Due Date	June 20, 2025	April 07, 2025	January 18, 2025

3) OBW Measurement

Equipment	EMI Test Receiver (9kHz to 3GHz)
Registration No.	EW-3095
Manufacturer	ROHDESCHWARZ
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	ROHDESCHWARZ
Software version	10.50.40

END OF TEST REPORT