

TEST REPORT

Report No.: 21050242HKG-001

Design Pool Limited

Application For Certification
(Original Grant)

FCC ID: X3QSNMAG01

Wireless Power Transfer Device

Prepared and Checked by:

Approved by:

Signed On File
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Date: June 29, 2021

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TEST REPORT

GENERAL INFORMATION

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Manufacturer:	ASAP Technology (Jiangxi) Co., Ltd.
Manufacturer Address:	No.5 Shuguang Road, West Zone, Jian County Industrial Park, Ji'an, Jiang Xi, 343100 China.
Brand Name:	Native Union
Model:	SNMAG01
Type of EUT:	Wireless Power Transfer Device
Description of EUT:	SNAP MAGNETIC WIRELESS CHARGER
Serial Number:	N/A
FCC ID:	X3QSNMAG01
Date of Sample Submitted:	May 05, 2021
Date of Test:	May 05, 2021 to June 25, 2021
Report No.:	21050242HKG-001
Report Date:	June 29, 2021
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
Radiated Emission	15.249, 15.209	Pass
Radiated Emission on the Bandedge		
Radiated Emission in Restricted Bands	15.205	Pass
Transmitter Power Line Conducted Emissions	15.207	Pass

The equipment under test is found to be complying with the following standards:
FCC Part 15, October 1, 2019 Edition

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 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 wireless charger that is designed to work on table. The EUT is powered by USB-C Port of AC/DC adaptor, which is operated at 128kHz for 15W wireless power transmission.

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.

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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 USB-C Port of AC/DC Adaptor (Input: 110-240VAC 50/60Hz; Output: 5-12VDC 1.5 -3A).

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.

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. For these excepted or not mentioned standards, Cl 4.2.2 of ILAC-G8:09/2019 decision rules will be reference and guard band will be equal to our measurement uncertainty with 95% confidence level ($k=2$). In case, the measured value is within guard band region, undetermined decision will be used.

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

- 1) iPhone12 (Provided by Intertek)
- 2) USB-C Port of AC/DC Adaptor – Model: SMPD02 (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

CF = Cable Attenuation Factor in dB

AF = Antenna 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 dB and average factor of 5 dB are subtracted, giving a field strength of 27 dB μ V/m. This value in dB μ V/m was converted to its corresponding level in μ V/m.

$$RA = 52.0 \text{ dB}\mu\text{V/m}$$

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

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

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

$$AV = 5.0 \text{ dB}$$

$$FS = RR + LF$$

$$FS = 18 + 9 = 27 \text{ dB}\mu\text{V/m}$$

$$RR = 18.0 \text{ dB}\mu\text{V}$$

$$LF = 9.0 \text{ dB}$$

$$\text{Level in } \mu\text{V/m} = \text{Common Antilogarithm } [(27 \text{ dB}\mu\text{V/m})/20] = 22.4 \mu\text{V/m}$$

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3.2 Radiated Emission Configuration Photograph

The worst case in radiated emission was found at 143.21875 MHz

For electronic filing, the worst case radiated emission configuration photographs are saved with filename: radiated 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 9.39 dB

3.4 Conducted Emission Configuration Photograph

The worst case in line-conducted emission was found at 555 kHz

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

3.5 Conducted Emission Data

For electronic filing, the graph and data table of conducted emission is saved with filename: conducted.pdf.

Judgment: Pass by 6.76 dB

3.6 RF Exposure

The data of RF exposure test is saved with filename: RF Exposure.pdf.

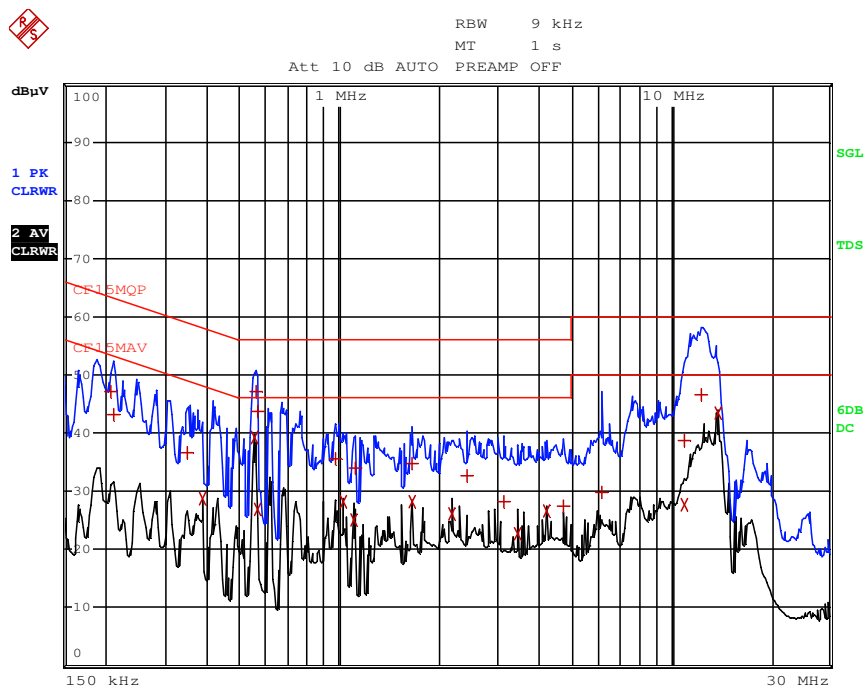
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CONDUCTED EMISSION

Model: SNMAG01

Date of Test: June 25, 2021

Worst-Case Operating Mode: Charging with iPhone 12



EDIT PEAK LIST (Final Measurement Results)

Trace1:	CF15MQP				
Trace2:	CF15MAV				
Trace3:	---				
	TRACE	FREQUENCY	LEVEL	dBμV	DELTA LIMIT dB
1	Quasi Peak	208.5 kHz	47.02	L1	-16.24
1	Quasi Peak	213 kHz	43.13	L1	-19.95
1	Quasi Peak	352.5 kHz	36.60	L1	-22.29
2	CISPR Average	384 kHz	28.65	N	-19.54
2	CISPR Average	555 kHz	39.23	L1	-6.76
1	Quasi Peak	559.5 kHz	46.99	L1	-9.00
1	Quasi Peak	568.5 kHz	43.71	L1	-12.28
2	CISPR Average	568.5 kHz	26.84	L1	-19.15
1	Quasi Peak	978 kHz	35.47	L1	-20.52
2	CISPR Average	1.023 MHz	28.31	N	-17.68
2	CISPR Average	1.1085 MHz	24.99	L1	-21.00
1	Quasi Peak	1.113 MHz	34.06	N	-21.93
1	Quasi Peak	1.662 MHz	34.67	N	-21.33
2	CISPR Average	1.662 MHz	28.28	L1	-17.71
2	CISPR Average	2.175 MHz	26.18	L1	-19.81
1	Quasi Peak	2.4315 MHz	32.56	N	-23.43
1	Quasi Peak	3.1515 MHz	28.10	N	-27.89
2	CISPR Average	3.453 MHz	22.75	L1	-23.24
2	CISPR Average	4.2225 MHz	26.71	L1	-19.28
1	Quasi Peak	4.7355 MHz	27.55	L1	-28.45

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

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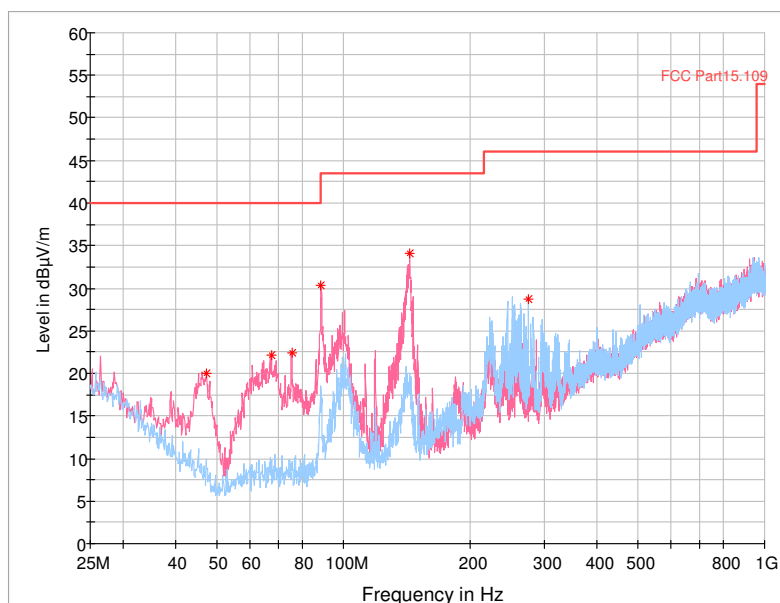
RADIATED EMISSIONS

Model: SNMAG01

Date of Test: June 25, 2021

Worst-Case Operating Mode: Charging with iphone 12

Table 1
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)
47.303125	11.05	20.05	40.00	-19.95	100.0	V	57.0	9.0
67.290625	13.63	22.13	40.00	-17.87	100.0	V	280.0	8.5
75.334375	13.87	22.37	40.00	-17.63	100.0	V	176.0	8.5
88.375000	21.49	30.29	43.50	-13.21	100.0	V	321.0	8.8
143.218750	23.41	34.11	43.50	-9.39	100.0	V	0.0	10.7
275.209375	13.03	28.73	46.00	-17.27	100.0	H	72.0	15.7

- NOTES:
1. All measurements were made at 3 meters.
 2. Negative sign in the column shows value below limit.
 3. Loop antenna is used for the emissions below 30MHz.
 4. Measurement Uncertainty is ± 5.3 dB at a level of confidence of 95%.

Remark:

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

TEST REPORT

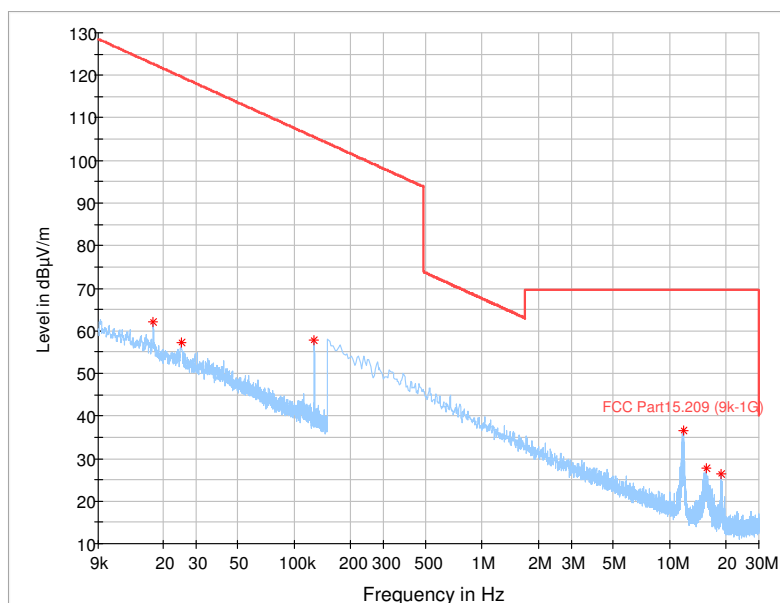
RADIATED EMISSIONS

Model: SNMAG01

Date of Test: June 25, 2021

Worst-Case Operating Mode: Charging with iPhone 12

Table 2
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)
15.735431	16.92	27.82	69.54	-41.72	100.0	H	4.0	10.9
0.127934	46.24	57.74	105.46	-47.72	100.0	H	7.0	11.5
0.017672	46.90	62.10	122.66	-60.56	100.0	H	37.0	15.2
18.936844	15.99	26.39	69.54	-43.15	100.0	H	325.0	10.4
0.025109	43.51	57.31	119.61	-62.30	100.0	H	336.0	13.8
11.823150	25.27	36.47	69.54	-33.07	100.0	H	343.0	11.2

- NOTES:
1. All measurements were made at 3 meters.
 2. Negative sign in the column shows value below limit.
 3. Loop antenna is used for the emissions below 30MHz.
 4. Measurement Uncertainty is ± 5.3 dB at a level of confidence of 95%.

Remark:

1. $\text{Corr. (dB/m)} = \text{Antenna Factor (dB)} + \text{Cable Loss (dB)}$
2. $\text{Max Peak (dBμV/m)} = \text{Corr. (dB/m)} + \text{Read Level (dBμV)}$
3. $\text{Margin (dB)} = \text{Max Peak (dBμV/m)} - \text{Limit (dBμV/m)}$

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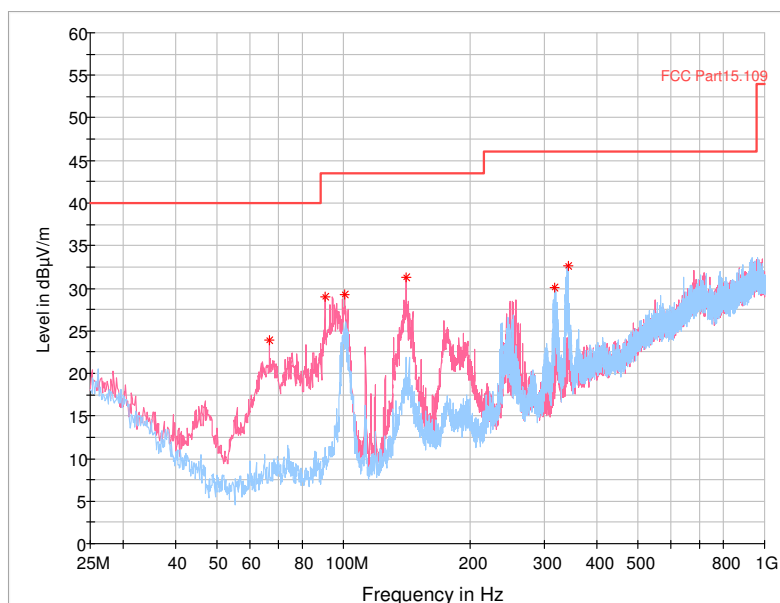
RADIATED EMISSIONS

Model: SNMAG01

Date of Test: June 25, 2021

Worst-Case Operating Mode: Charging with iPhone 12 (separation distance of 2mm)

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)
66.559375	15.53	23.93	40.00	-16.07	100.0	V	359.0	8.4
90.325000	20.13	29.03	43.50	-14.47	100.0	V	47.0	8.9
100.562500	19.27	29.27	43.50	-14.23	100.0	V	275.0	10.0
140.781250	20.81	31.21	43.50	-12.29	100.0	V	353.0	10.4
317.621875	13.08	30.08	46.00	-15.92	100.0	H	30.0	17.0
341.021875	14.30	32.60	46.00	-13.40	100.0	H	358.0	18.3

- NOTES:
1. All measurements were made at 3 meters.
 2. Negative sign in the column shows value below limit.
 3. Loop antenna is used for the emissions below 30MHz.
 4. Measurement Uncertainty is ± 5.3 dB at a level of confidence of 95%.

Remark:

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

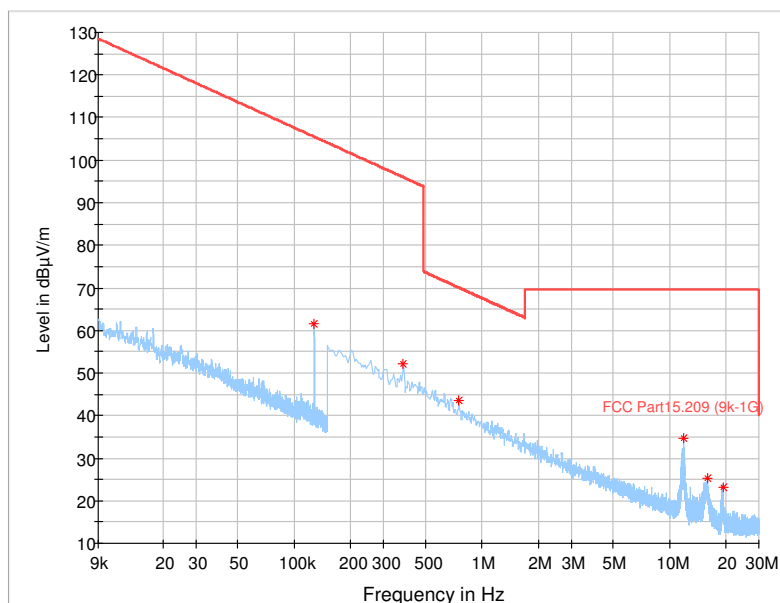
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Model: SNMAG01

Date of Test: June 25, 2021

Worst-Case Operating Mode: Charging with iPhone 12 (separation distance of 2mm)

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)
0.127934	49.99	61.49	105.46	-43.97	100.0	H	52.0	11.5
0.381338	40.38	52.18	95.98	-43.80	100.0	H	35.0	11.8
0.758194	32.11	43.51	70.01	-26.50	100.0	H	142.0	11.4
11.862394	23.47	34.67	69.54	-34.87	100.0	H	8.0	11.2
15.877219	14.54	25.44	69.54	-44.10	100.0	H	325.0	10.9
19.317431	12.68	23.08	69.54	-46.46	100.0	H	10.0	10.4

- NOTES:
1. All measurements were made at 3 meters.
 2. Negative sign in the column shows value below limit.
 3. Loop antenna is used for the emissions below 30MHz.
 4. Measurement Uncertainty is ± 5.3 dB at a level of confidence of 95%.

Remark:

1. Corr. (dB/m) = Antenna Factor (dB) + Cable Loss (dB)
2. Max Peak (dBμV/m) = Corr. (dB/m) + Read Level (dBμV)
3. Margin (dB) = Max 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.

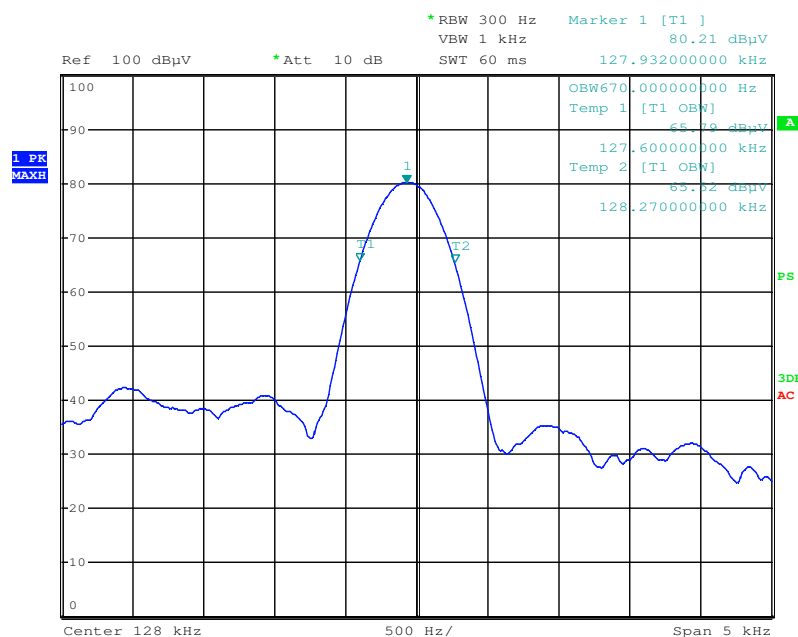
8.1 Measured Bandwidth

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.

Occupied Bandwidth Results:

Occupied Bandwidth (Hz)	
127.96kHz	670

The worst case is shown as below



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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.

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).

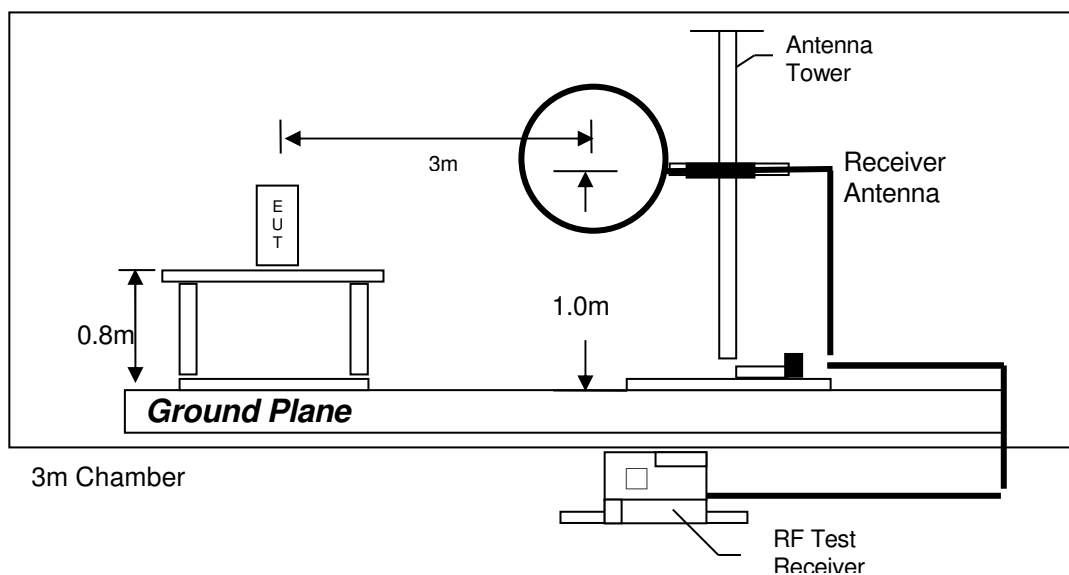
The IF bandwidth used for measurement of radiated signal strength was 100 kHz or greater when frequency is below 1000 MHz. Where pulsed transmissions of short enough pulse duration warrant, a greater bandwidth is selected according to the recommendations of Hewlett Packard Application Note 150-2. A discussion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

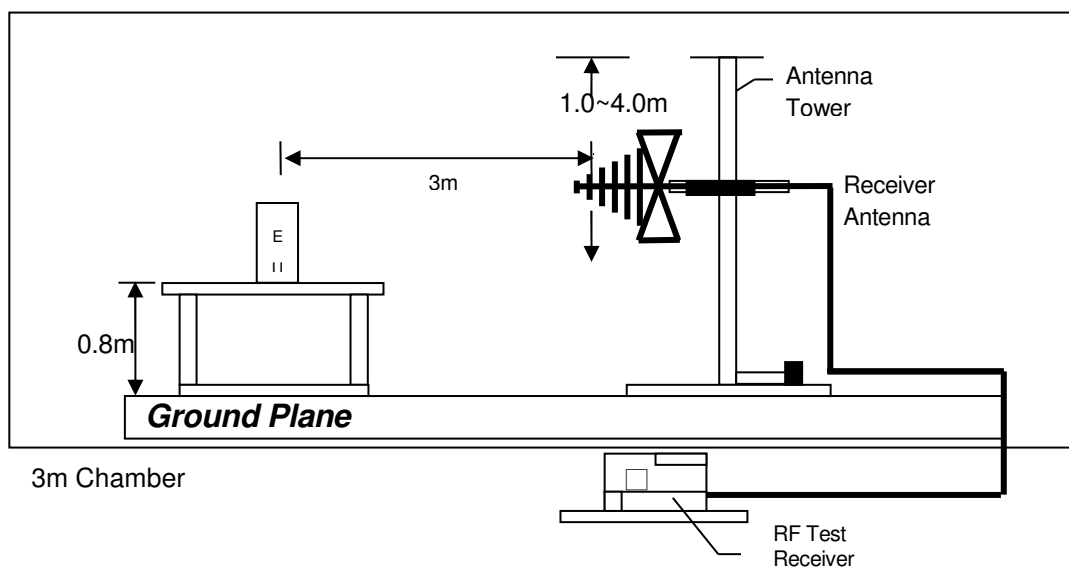
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8.2.1 Radiated Emission Test Setup

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 30MHz to 1GHz

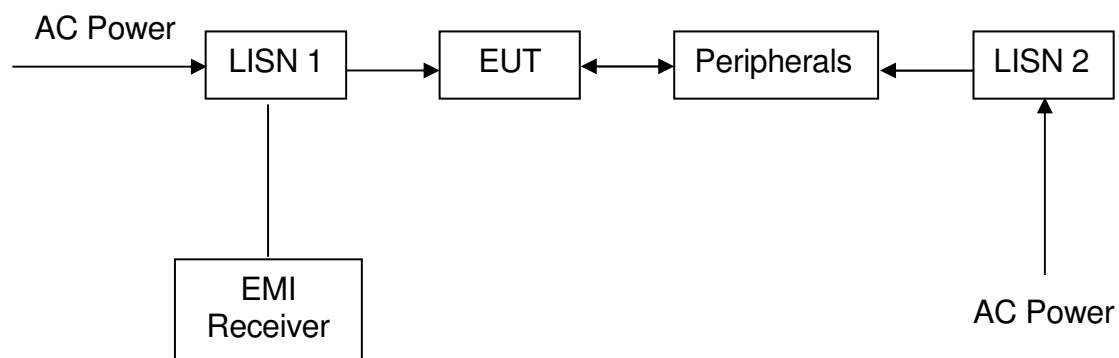
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8.2.2 Conducted Emission Test Procedures

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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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)	Spectrum Analyzer	Biconical Antenna (20MHz to 200MHz)
Registration No.	EW-3156	EW-2466	EW-2512
Manufacturer	ROHDESCHWARZ	ROHDESCHWARZ	EMCO
Model No.	ESR26	FSP30	3104C
Calibration Date	January 25, 2021	September 05, 2020	June 03, 2020
Calibration Due Date	January 25, 2022	September 05, 2021	December 03, 2021

Equipment	Log Periodic Antenna	Active Loop H-field Antenna	RF Cable 14m
Registration No.	EW-0447	EW-2313	EW-2781
Manufacturer	EMCO	ELECTROMETRIC	GREATBILLION
Model No.	3146	EM-6876	SMA m/SHF5MPU /SMA m ra14m,26G
Calibration Date	September 25, 2019	December 17, 2019	November 24, 2020
Calibration Due Date	June 25, 2021	December 17, 2021	November 24, 2021

Equipment	14m Double Shield RF Cable
Registration No.	EW-2074
Manufacturer	RADIALL
Model No.	N(m)-RG142-BNC(m) L=14M
Calibration Date	August 29, 2020
Calibration Due Date	August 29, 2021

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2) Conducted Emissions Test

Equipment	RF Cable 240cm (RG142) (9kHz to 30MHz)	Artificial Mains Network	EMI Test Receiver
Registration No.	EW-2454	EW-2501	EW-2500
Manufacturer	RADIAL	ROHDESCHWARZ	ROHDESCHWARZ
Model No.	Bnc m st / 142 / bnc mra 240cm	ENV-216	ESCI
Calibration Date	November 10, 2020	September 11, 2020	March 29, 2021
Calibration Due Date	November 10, 2021	September 11, 2021	March 29, 2022

3) OBW Measurement

Equipment	Spectrum Analyzer	5m RF Cable (40GHz)
Registration No.	EW-2466	EW-2701
Manufacturer	ROHDESCHWARZ	RADIAL
Model No.	FSP30	Sma m-m 5m 40G
Calibration Date	September 05, 2020	November 24, 2020
Calibration Due Date	September 05, 2021	November 24, 2021

END OF TEST REPORT