

TEST REPORT

Report No.: 26080389HKG-001

Design Pool Limited

Application For Certification
(Original Grant)

FCC ID: X3QRNE72A

Active Power Bank 5000mAh

Prepared and Checked by:

Approved by:

Signed on File
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Hong Kong Limited

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Assistant Manager
Date: September 07, 2026

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TEST REPORT

GENERAL INFORMATION

Grantee:	Design Pool Limited
Grantee Address:	FLAT 1508 15/F, AIA TOWER, 183 ELECTRIC ROAD, HONG KONG.
Brand Name:	Not Applicable
Model:	RNE72A
Type of EUT:	Wireless Power Transfer Device - Transmitter
Description of EUT:	Active Power Bank 5000mAh
Serial Number:	Not Labelled
FCC ID:	X3QRNE72A
Date of Sample Submitted:	August 18, 2026
Date of Test:	August 18, 2026 to August 28, 2026
Report No.:	26080389HKG-001
Report Date:	September 07, 2026
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	15.209	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, 2024 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 5000mAH power bank. The EUT is powered by 1 x 3.85V Lithium-ion battery or an AC/DC adaptor, the EUT is operated at frequency range of 127kHz to 205kHz. The maximum wireless power transmission is 15W.

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 C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024. 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 C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024.

The device was powered by 1 x 3.85V Lithium-ion battery or an AC/DC adaptor.

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.

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2.5 Support Equipment List and Description

Description	Remark
An AC adaptor (Input: 100-240VAC 50/60Hz 1.8A; Output: 20.6V 3.4A, 15.0V 3.0A, 9.0V 3.0A, 5.0V 3.0A)	Provided by Intertek
15.5cm USB Type-C Power Supply Cable	Provided by Applicant
15W Loading	Provided by Intertek
iPhone	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 30.606 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 6.94 dB

3.4 Conducted Emission Configuration Photograph

The worst case in line-conducted emission was found at 0.150 MHz

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

3.5 Conducted Emission Data

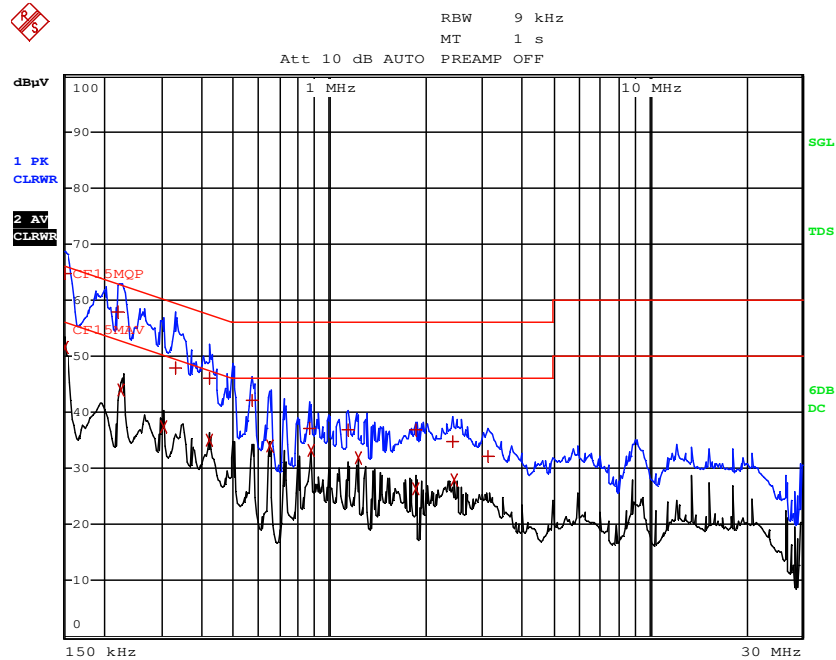
The plot(s) and data in the following pages list the significant emission frequencies, the limit and the margin of compliance.

Judgment: Pass by 1.29 dB

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CONDUCTED EMISSION

Model: RNE72A
Date of Test: August 19, 2026
Worst-Case Operating Mode: Standby Mode



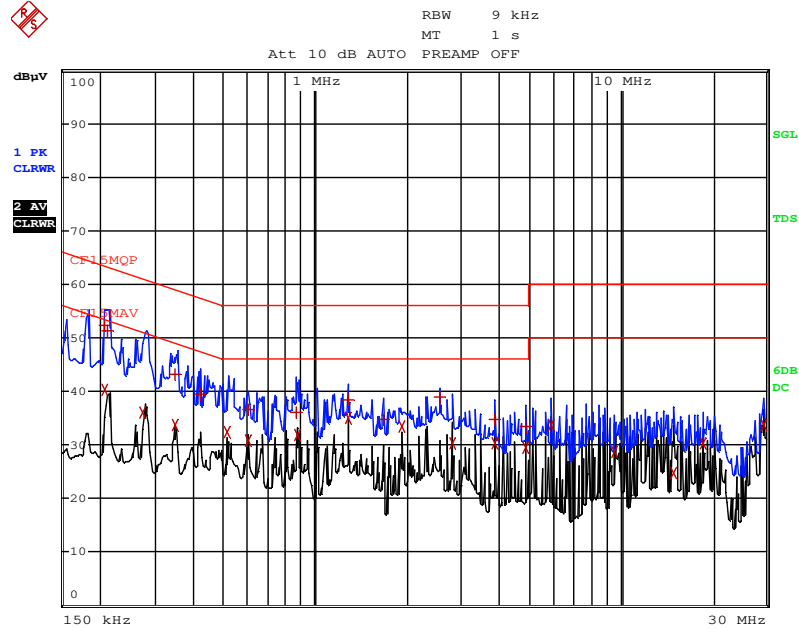
EDIT PEAK LIST (Final Measurement Results)					
Trace1:	CF15MQP				
Trace2:	CF15MAV				
Trace3:	---				
TRACE	FREQUENCY	LEVEL dBμV		DELTA LIMIT dB	
1 Quasi Peak	150 kHz	64.70	N	-1.29	
2 CISPR Average	150 kHz	51.61	N	-4.38	
1 Quasi Peak	222 kHz	57.76	N	-4.98	
2 CISPR Average	226.5 kHz	44.05	N	-8.52	
2 CISPR Average	303 kHz	37.27	N	-12.88	
1 Quasi Peak	330 kHz	47.78	N	-11.66	
1 Quasi Peak	420 kHz	46.14	N	-11.30	
2 CISPR Average	420 kHz	34.91	N	-12.53	
1 Quasi Peak	573 kHz	42.16	N	-13.83	
2 CISPR Average	649.5 kHz	34.03	N	-11.96	
1 Quasi Peak	870 kHz	37.25	L1	-18.75	
2 CISPR Average	879 kHz	33.24	L1	-12.75	
1 Quasi Peak	1.1445 MHz	36.88	N	-19.11	
2 CISPR Average	1.2255 MHz	31.98	L1	-14.02	
2 CISPR Average	1.8645 MHz	26.32	N	-19.67	
1 Quasi Peak	1.869 MHz	36.82	N	-19.18	
1 Quasi Peak	2.436 MHz	34.72	N	-21.27	
2 CISPR Average	2.445 MHz	28.00	N	-17.99	
1 Quasi Peak	3.1245 MHz	32.19	N	-23.80	

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

TEST REPORT

CONDUCTED EMISSION

Model: RNE72A
Date of Test: August 19, 2025
Worst-Case Operating Mode: Simultaneous Charge and Discharge with iPhone



EDIT PEAK LIST (Final Measurement Results)				
Trace1:	CF15MQP			
Trace2:	CF15MAV			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dBμV		DELTA LIMIT dB
1 Quasi Peak	208.5 kHz	52.40	N	-10.85
2 CISPR Average	208.5 kHz	40.37	N	-12.89
1 Quasi Peak	213 kHz	51.41	N	-11.66
2 CISPR Average	276 kHz	35.96	N	-14.97
2 CISPR Average	348 kHz	33.68	N	-15.32
1 Quasi Peak	352.5 kHz	43.25	L1	-15.64
1 Quasi Peak	420 kHz	39.52	L1	-17.92
2 CISPR Average	514.5 kHz	32.48	N	-13.51
1 Quasi Peak	600 kHz	36.74	N	-19.25
2 CISPR Average	600 kHz	30.77	N	-15.22
1 Quasi Peak	865.5 kHz	36.04	L1	-19.95
2 CISPR Average	874.5 kHz	31.98	N	-14.01
1 Quasi Peak	1.2885 MHz	38.57	L1	-17.42
2 CISPR Average	1.2885 MHz	34.92	N	-11.07
1 Quasi Peak	1.671 MHz	34.79	N	-21.20
2 CISPR Average	1.932 MHz	33.43	N	-12.56
1 Quasi Peak	2.5755 MHz	38.96	N	-17.03
2 CISPR Average	2.832 MHz	30.25	N	-15.74
1 Quasi Peak	3.8625 MHz	34.84	N	-21.15
2 CISPR Average	3.8625 MHz	30.25	N	-15.74

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

TEST REPORT

CONDUCTED EMISSION (CONT'D)

Model: RNE72A
Date of Test: August 19, 2025
Worst-Case Operating Mode: Simultaneous Charge and Discharge with iPhone

EDIT PEAK LIST (Final Measurement Results)				
Trace1:	CF15MQP			
Trace2:	CF15MAV			
Trace3:	---			
	TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
1	Quasi Peak	4.8885 MHz	33.43 N	-22.56
2	CISPR Average	4.8885 MHz	29.52 N	-16.47
2	CISPR Average	5.919 MHz	33.77 N	-16.23
2	CISPR Average	9.5235 MHz	28.73 N	-21.26
2	CISPR Average	14.928 MHz	24.80 L1	-25.19
2	CISPR Average	18.5325 MHz	30.21 L1	-19.78
2	CISPR Average	29.3415 MHz	33.84 L1	-16.15

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

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RADIATED EMISSIONS

Model: RNE72A
Date of Test: August 26, 2026
Worst-Case Operating Mode: Standby Mode

Table 1
Pursuant to FCC Part 15 Section 15.209 Requirement

Frequency (MHz)	Read Level (dBμV)	Quasi-Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.128672	56.50	67.90	105.41	-37.51	100.0	O	232.0	11.4

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

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RADIATED EMISSIONS

Model: RNE72A
Date of Test: August 26, 2025
Worst-Case Operating Mode: Simultaneous Charge and Discharge with iPhone

Table 2
Pursuant to FCC Part 15 Section 15.209 Requirement

Frequency (MHz)	Read Level (dBμV)	Quasi-Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.128661	46.44	57.84	105.41	-47.57	100.0	O	306.0	11.4
15.179475	21.88	32.58	69.54	-36.96	100.0	O	233.0	10.7
28.947788	17.58	26.38	69.54	-43.16	100.0	O	144.0	8.8

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

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RADIATED EMISSIONS

Model: RNE72A
Date of Test: August 28, 2026
Worst-Case Operating Mode: Charging with Full Load (15W)

Table 3
Pursuant to FCC Part 15 Section 15.209 Requirement

Frequency (MHz)	Read Level (dBμV)	Quasi-Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
0.127881	72.58	83.98	105.47	-21.49	100.0	O	186.0	11.4
0.381338	50.55	61.95	95.98	-34.03	100.0	O	201.0	11.4
0.638794	42.98	54.38	71.49	-17.12	100.0	O	180.0	11.4
0.892519	34.94	46.44	68.59	-22.15	100.0	O	163.0	11.5
1.149975	31.72	43.22	66.39	-23.17	100.0	O	169.0	11.5
1.403700	25.69	37.29	64.66	-27.37	100.0	O	173.0	11.6

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

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RADIATED EMISSIONS

Model: RNE72A
Date of Test: August 26, 2026
Worst-Case Operating Mode: Standby Mode

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)
34.728750	9.71	24.81	40.00	-15.19	100.0	V	346.0	15.1
72.316250	8.82	17.82	40.00	-22.18	200.0	V	76.0	9.0
159.980000	9.67	22.97	43.50	-20.53	200.0	H	342.0	13.3
258.920000	16.03	31.73	46.00	-14.27	100.0	H	160.0	15.7
698.208750	3.23	30.43	46.00	-15.57	100.0	V	24.0	27.2
914.033750	3.29	31.89	46.00	-14.11	100.0	H	84.0	28.6

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

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RADIATED EMISSIONS

Model: RNE72A
Date of Test: August 26, 2026
Worst-Case Operating Mode: Simultaneous Charge and Discharge with iPhone

Table 5
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)
30.606250	15.86	33.06	---	40.00	-6.94	100.0	V	321.0	17.2
32.526300	6.74	---	22.94	40.00	-17.06	100.0	V	321.0	16.2
36.015900	10.87	---	25.37	40.00	-14.63	100.0	V	321.0	14.5
38.017100	11.46	---	24.96	40.00	-15.04	100.0	V	321.0	13.5
39.821250	13.71	26.31	---	40.00	-13.69	100.0	V	321.0	12.6
41.518750	15.76	27.56	---	40.00	-12.44	100.0	V	321.0	11.8

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

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RADIATED EMISSIONS

Model: RNE72A
Date of Test: August 28, 2026
Worst-Case Operating Mode: Charging with Full Load (15W)

Table 6
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)
30.242500	1.93	19.23	40.00	-20.77	100.0	V	149.0	17.3
35.941250	3.27	17.77	40.00	-22.23	100.0	V	328.0	14.5
130.152500	6.10	16.40	43.50	-27.10	100.0	V	334.0	10.3
288.020000	6.88	23.08	46.00	-22.92	200.0	V	329.0	16.2
484.202500	4.40	26.20	46.00	-19.80	200.0	H	109.0	21.8
688.872500	4.02	30.92	46.00	-15.08	100.0	H	255.0	26.9

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

TEST REPORT

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.

TEST REPORT

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 C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024.

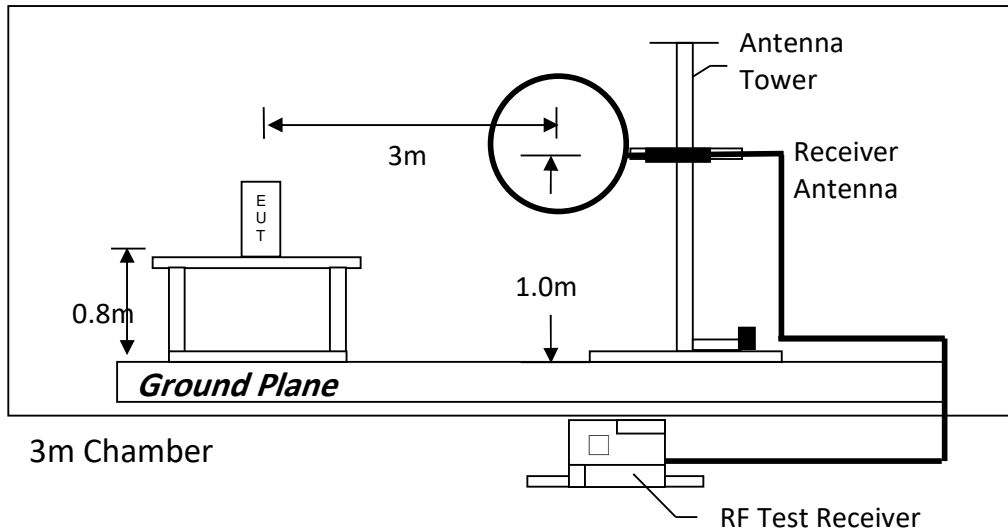
The IF bandwidth used for measurement of radiated signal strength was 100 kHz or greater when frequency is below 1000 MHz. Where pulsed transmissions of short enough pulse duration warrant, a greater bandwidth is selected according to the recommendations of Hewlett Packard Application Note 150-2. A discussion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

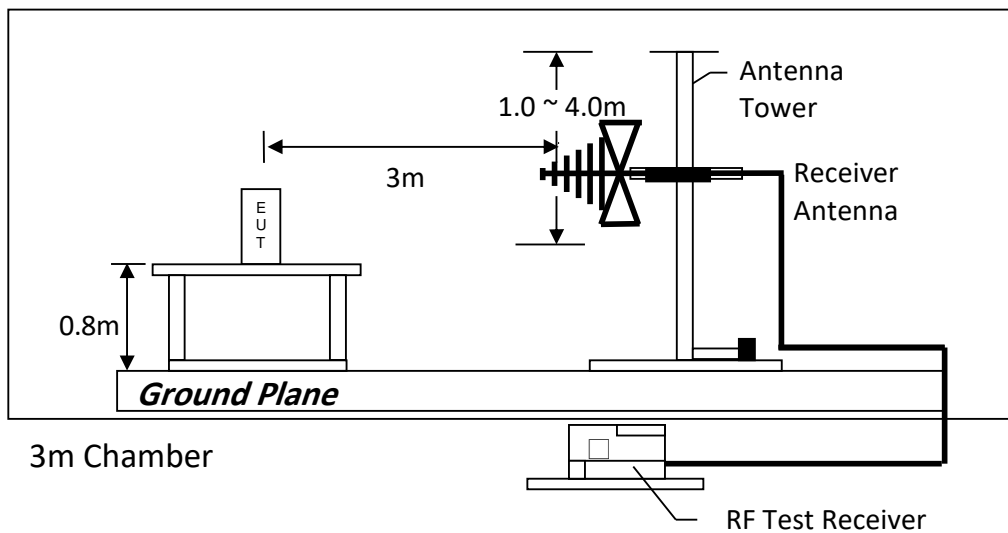
TEST REPORT

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

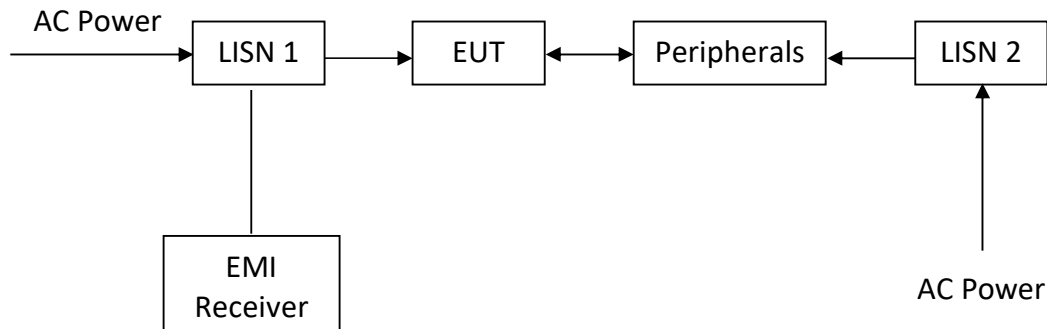
TEST REPORT

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.

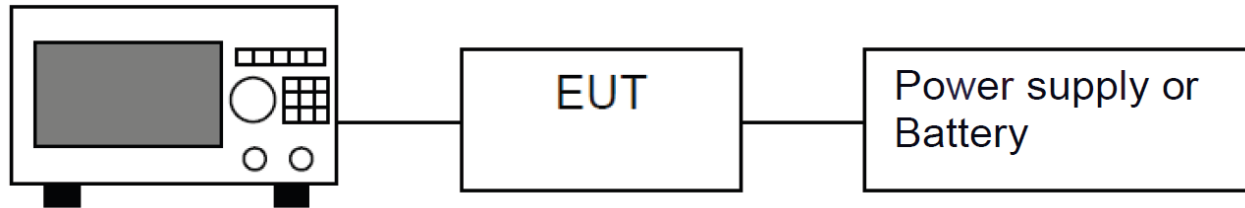
All connecting cables of EUT and peripherals were moved to find the maximum emission.

8.2.3 Conducted Emission Test Setup



TEST REPORT

8.3 20 dB Bandwidth



Spectrum Analyzer

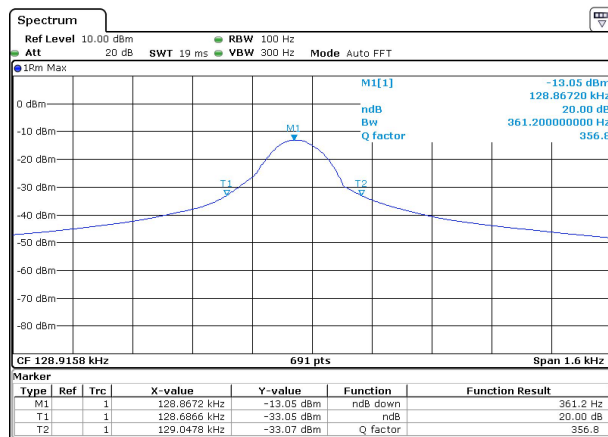
Block diagram of Test setup

20 dB Bandwidth Results:

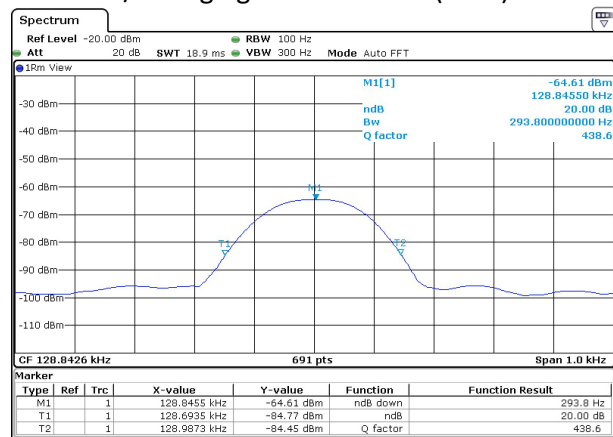
Testing Mode	20 dB Bandwidth (Hz)
Standby Mode	361.2
Simultaneous Charge and Discharge with iPhone / Charging with Full Load (15W)	293.8

The worst case is shown as below

Standby Mode



Simultaneous Charge and Discharge with iPhone / Charging with Full Load (15W)



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	May 02, 2025	July 30, 2024	July 30, 2024
Calibration Due Date	November 02, 2026	October 30, 2026	October 30, 2026

Equipment	Double Ridged Guide Antenna (1GHz - 18GHz)	Active Loop Antenna (H-field) (9kHz to 30MHz)	Solid State Low Noise Preamplifier Assembly (1 - 18)GHz
Registration No.	EW-1133	EW-2313	EW-3431
Manufacturer	EMCO	ELECTROMETRI	BONN ELEKTRO
Model No.	3115	EM-6876	BLMA 0118-5G
Calibration Date	January 23, 2025	December 19, 2025	December 11, 2025
Calibration Due Date	October 23, 2026	December 19, 2027	December 11, 2026

Equipment	Notch Filter (cutoff frequency 2.4GHz to 2.5GHz)	14m Double Shield RF Cable (9kHz - 6GHz)	RF Cable 14m (1GHz to 26.5GHz)
Registration No.	EW-2213b	EW-2376	EW-2781
Manufacturer	MICROTRONICS	RADIALL	GREATBILLION
Model No.	BRM50701-02	n m/br56/bnc m 14m	SMA m/SHF5MPU /SMA m ra14m,26G
Calibration Date	March 04, 2026	November 06, 2025	February 18, 2025
Calibration Due Date	March 04, 2027	November 06, 2026	November 18, 2026

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	February 18, 2025	November 06, 2025
Calibration Due Date	November 18, 2026	May 06, 2027

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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 12, 2025	June 23, 2025	June 19, 2025
Calibration Due Date	September 12, 2026	September 23, 2026	September 19, 2026

3) OBW Measurement

Equipment	Signal and Spectrum Analyzer (10Hz to 40GHz)
Registration No.	EW-3016
Manufacturer	ROHDESCHWARZ
Model No.	FSV40
Calibration Date	November 17, 2025
Calibration Due Date	November 17, 2026

4) Control Software for Radiated Emission

Software Information	
Software Name	EMC32
Manufacturer	ROHDESCHWARZ
Software version	10.50.40

END OF TEST REPORT