

# TEST REPORT FCC ID: 2BA8X-JRW020MINI

Report No.: DL-20240428076-1E

Applicant: Shenzhen Nito Power Source Technology Co., Ltd.

Address: 201-7, Building 2, Shihua Lixing Fengda Industrial Factory, No. 49 Wuhe Avenue South,

Wuhe Community, Bantian Street, Longgang District, Shenzhen

Manufacturer: Shenzhen Nito Power Source Technology Co., Ltd.

Address: 201-7, Building 2, Shihua Lixing Fengda Industrial Factory, No. 49 Wuhe Avenue South,

Wuhe Community, Bantian Street, Longgang District, Shenzhen

EUT: 20W Mini Magnetic Wireless Power Bank

Trade Mark: JOYROOM

Model Number: JR-W020 Mini

Date of Receipt: Apr. 28, 2024

Test Date: Apr. 28, 2024 - May. 13, 2024

Date of Report: May. 13, 2024

Prepared By: Shenzhen DL Testing Technology Co., Ltd.

Address: 101-201, Building C, Shuanghuan, No.8, Baoqing Road, Baolong Industrial Zone, Baolong

Street, Longgang District, Shenzhen, Guangdong, China

Applicable FCC PART 15 Subpart C Standards: ANSI C63.10:2013

Test Result: Pass

Report Number: DL-20240428076E

Prepared (Engineer): Alisa Song

Reviewer (Supervisor): Jack Bu

Approved (Manager): Jade Yang

This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen DL Testing Technology Co., Ltd.

pproved

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#### 1. VERSION

Version No.	Date	Description
00	May. 13, 2024	Original

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#### 2. TEST SUMMARY

EMC Emission							
Test Item	Section in CFR 47	Result	Remark				
AC Power Line Conducted Emission	15.207	PASS					
Spurious Emission	15.209(a)(f)	PASS					
20dB Bandwidth	15.215	PASS					
Antenna requirement	15.203	PASS					

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

Test lab: Shenzhen DL Testing Technology Co., Ltd.

Address: 101-201, Building C, Shuanghuan, No.8, Baoqing Road, Baolong Industrial Zone, Baolong

Street, Longgang District, Shenzhen, Guangdong, China

FCC Test Firm Registration Number: 854456

Designation Number: CN1307 IC Registered No.: 27485

CAB ID.: CN0118

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#### 3. GENERAL INFORMATION

#### 3.1 Description of Device (EUT)

Product Name: 20W Mini Magnetic Wireless Power Bank

Trade Mark: JOYROOM
Model No.: JR-W020 Mini

Model Difference: N/A
Serial No.: N/A
Hardware version: H1.0
Software version: S1.0

Operation Frequency: 115kHz ~ 205KHz

Modulation type: MSK

Antenna Type: Inductive loop coil Antenna

Antenna gain: 0dBi

Type-C Input: 5V/3A, 9V/2A

Type-C Output: 5V/2.4A, 9V/2.22A, 12V/1.67A

USB-A Output: 5V/2.4A, 9V/2A, 12V/1.5A

Power supply: Wireless charger Output: 15W Max.

Multi-port Output: 5V/2.4A Max.

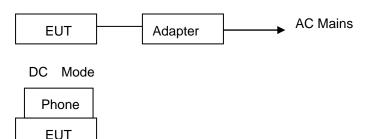
Battery capacity: 5000mAH/3.7V/18.5Wh

#### 3.2 Tested System Details

None.

#### 3.3 Block Diagram of Test Set-up

AC Mode



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#### 3.4 Test Mode Description

Mode1. Type-C Input+USB-A Output+Wireless charger Output Mode(Full Load, 1%/50%/99%)

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Mode2. Type-C Input+USB-A Output+Wireless charger Output Mode(Half Load, 1%/50%/99%)

Mode3. Type-C Input+USB-A Output+Wireless charger Output Mode(No Load, 1%/50%/99%)

Mode4. Type-C Output+USB-A Output+Wireless charger Output Mode(Full Load, 1%/50%/99%)

Mode5. Type-C Output+USB-A Output+Wireless charger Output Mode(Half Load, 1%/50%/99%)

Mode6. Type-C Output+USB-A Output+Wireless charger Output Mode(No Load, 1%/50%/99%)

Mode7. Wireless charger Output Mode(Full Load, 1%/50%/99%)

Mode8. Wireless charger Output Mode(Half Load, 1%/50%/99%)

Mode9. Wireless charger Output Mode(No Load, 1%/50%/99%)

Mode10. Type-C Output Mode(Full Load, 1%/50%/99%)

Mode11. Type-C Output Mode(Half Load, 1%/50%/99%)

Mode12. Type-C Output Mode(No Load, 1%/50%/99%)

Mode13. USB-A Output Mode(Full Load, 1%/50%/99%)

Mode14. USB-A Output Mode(Half Load, 1%/50%/99%)

Mode15. USB-A Output Mode(No Load, 1%/50%/99%)

Note: 1. We have evaluated 1%, 50% and 99% battery charging mode, and the worst mode (99%) is showed in this report.

2. All modes have been tested, and the report only shows the results of the worst mode1 and mode7.

#### 3.5 Test Auxiliary Equipment

Adapter (Provide by test lab): Mobile phone (Provide by test lab):

Manufacturer: XIAOMI Manufacturer: SAMSUNG
Model: AD65G Model: Galaxy S21 5G

I/P: AC 100-240V 50/60Hz

O/P: DC 5V/3A, DC 9V/3A, DC 10V/5A, DC 12V/3A,

DC 15V/3A, DC 20V/3.25A

#### 3.6 Test Uncertainty

Conducted Emission Uncertainty(150KHz-30MHz) : ±2.56dB

20dB Bandwidth : ±0.5kHz

Radiated Emission Uncertainty(9KHz-1GHz) : ±3.24dB

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# TEST INSTRUMENT USED

4.

#### For Conducted Emission Test (843 Shielded Room)

Equipment	Manufacturer	Model	Serial	Last Cal.	Next Cal.			
843 Shielded Room	ChengYu	843 Room	843	Sep. 20, 2022	Sep. 19, 2025			
EMI Receiver	R&S	ESR	101421	Nov. 04, 2023	Nov. 03, 2024			
LISN	R&S	ENV216	102417	Nov. 04, 2023	Nov. 03, 2024			
Clamp	COM-POWER	CLA-050	431071	Nov. 04, 2023	Nov. 03, 2024			
3-Loop Antenna	DAZE	ZN30401	13021	Nov. 04, 2023	Nov. 03, 2024			
ISN T8	Schwarzbeck	NTFM 8158	101135	Nov. 04, 2023	Nov. 03, 2024			
ISN T5	Schwarzbeck	NTFM 8158	101136	Nov. 04, 2023	Nov. 03, 2024			
843 Cable 1#	ChengYu	CE Cable	001	Nov. 04, 2023	Nov. 03, 2024			
843 Cable 1#	ChengYu	CE Cable	002	Nov. 04, 2023	Nov. 03, 2024			

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# For Radiated Emission Test (966 chamber)

Equipment	Manufacturer	Model	Serial	Last Cal.	Next Cal.
966 Chamber	ChengYu	966 Room	966	Sep. 20, 2022	Sep. 19, 2025
Spectrum Agilent		E4408B	MY50140780	Nov. 04, 2023	Nov. 03, 2024
EMI Receiver	R&S	ESRP7	101393	Nov. 04, 2023	Nov. 03, 2024
Amplifier	Schwarzbeck	BBV9743B	00153	Nov. 04, 2023	Nov. 03, 2024
Amplifier	EMEC	EM01G8GA	00270	Nov. 04, 2023	Nov. 03, 2024
Broadband Trilog Antenna	Schwarzbeck	VULB9162	00306	Nov. 04, 2023	Nov. 03, 2024
Horn Antenna	Schwarzbeck	BBHA9120D	02139	Nov. 04, 2023	Nov. 03, 2024
Loop Antenna	ZHINAN	ZN30900A	/	Nov. 04, 2023	Nov. 03, 2024
966 Cable 1#	ChengYu	966	004	Nov. 04, 2023	Nov. 03, 2024
966 Cable 2#	ChengYu	966	003	Nov. 04, 2023	Nov. 03, 2024

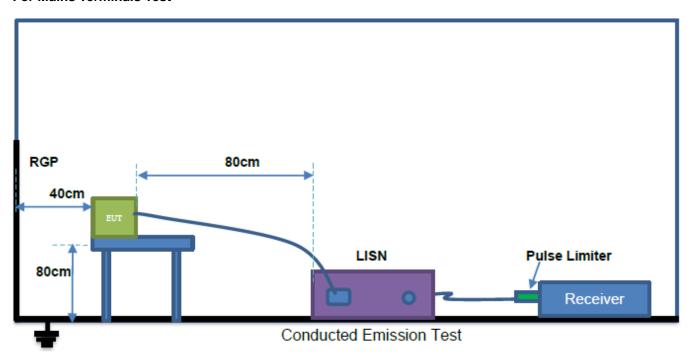
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#### 5. CONDUCTED EMISSION TEST

#### 5.1 Block Diagram of Test Setup

#### **For Mains Terminals Test**



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#### 5.2 Test Standard and Limit

FCC Part 15 Subpart C

Frequency	Limits dB(μV)					
MHz	Quasi-peak Level	Average Level				
0.15~0.50	66 ~ 56*	55 ~ 46*				
0.50~5.00	56	46				
5.00~30.00	60	50				

Notes: 1. \*Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

#### 5.3 EUT Configuration on Test

The following equipment's are installed on conducted emission test to meet FCC Part 15 Subpart C requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

#### 5.4 Operating Condition of EUT

- 5.4.1 Setup the EUT and simulators as shown in Section 5.1.
- 5.4.2 Turn on the power of all equipments.
- 5.4.3 Let the EUT work in test modes and test it.

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#### 5.5 Test Procedure

The EUT is put on the table and connected to the AC mains through a Artificial Mains Network (AMN) or ISN. This provided a 50ohm coupling impedance for the tested equipments. Both sides of AC line are checked to find out the maximum conducted emission levels according to the **ANSI C63.10** regulations during conducted emission test.

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The bandwidth of the test receiver (R&S Test Receiver ESR) is set at 10KHz.

The frequency range from 150 KHz to 30 MHz is investigated.

Notes:

- 1.An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
  - 3.Mesurement Level = Reading level + Correct Factor

#### 5.6 Test Result

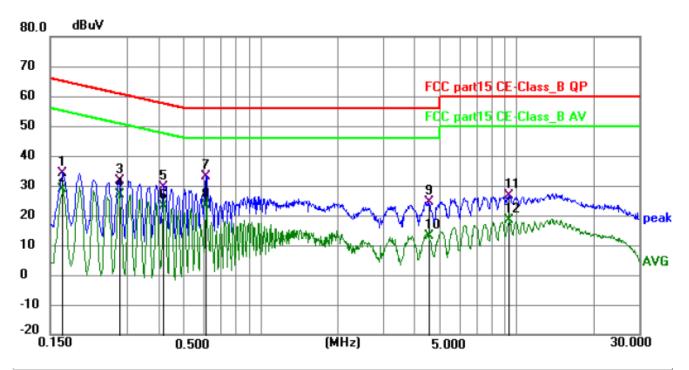
**PASS** 

Please refer to the following page.

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Conducted Emission Test Data							
Temperature:	24.5 °C	Relative Humidity:	54%				
Pressure:	1009hPa	Phase:	Line				
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1(Mobile)				

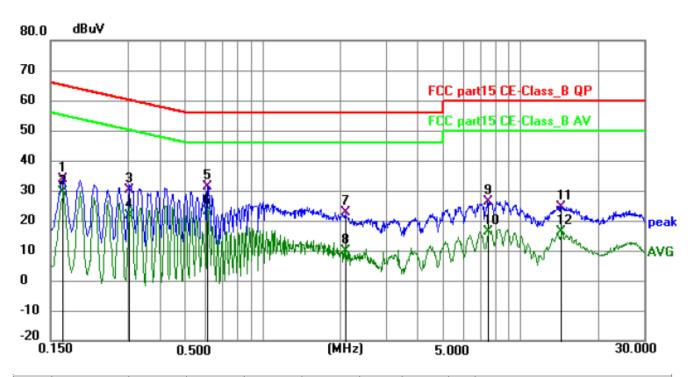


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1680	24.02	10.18	34.20	65.06	-30.86	QP	Р	
2	0.1680	18.47	10.18	28.65	55.06	-26.41	AVG	Р	
3	0.2805	22.33	9.16	31.49	60.80	-29.31	QP	Р	
4	0.2805	17.78	9.16	26.94	50.80	-23.86	AVG	Р	
5	0.4154	20.17	9.20	29.37	57.54	-28.17	QP	Р	
6	0.4154	13.82	9.20	23.02	47.54	-24.52	AVG	Р	
7	0.6134	23.50	9.39	32.89	56.00	-23.11	QP	Р	
8 *	0.6134	13.89	9.39	23.28	46.00	-22.72	AVG	Р	
9	4.5374	14.56	9.90	24.46	56.00	-31.54	QP	Р	
10	4.5374	3.00	9.90	12.90	46.00	-33.10	AVG	Р	
11	9.2940	16.57	10.09	26.66	60.00	-33.34	QP	Р	
12	9.2940	8.26	10.09	18.35	50.00	-31.65	AVG	Р	

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Conducted Emission Test Data							
Temperature:	24.5 ℃	Relative Humidity:	54%				
Pressure:	1009hPa	Phase:	Neutral				
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1(Mobile)				



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1680	23.78	9.86	33.64	65.06	-31.42	QP	Р	
2	0.1680	19.44	9.86	29.30	55.06	-25.76	AVG	Р	
3	0.3030	21.10	9.08	30.18	60.16	-29.98	QP	Р	
4	0.3030	12.69	9.08	21.77	50.16	-28.39	AVG	Р	
5	0.6134	22.10	9.30	31.40	56.00	-24.60	QP	Р	
6 *	0.6134	13.79	9.30	23.09	46.00	-22.91	AVG	Р	
7	2.0940	12.69	9.94	22.63	56.00	-33.37	QP	Р	
8	2.0940	0.05	9.94	9.99	46.00	-36.01	AVG	Р	
9	7.5075	16.25	10.15	26.40	60.00	-33.60	QP	Р	
10	7.5075	6.22	10.15	16.37	50.00	-33.63	AVG	Р	
11	14.4195	14.02	10.38	24.40	60.00	-35.60	QP	Р	
12	14.4195	5.75	10.38	16.13	50.00	-33.87	AVG	Р	

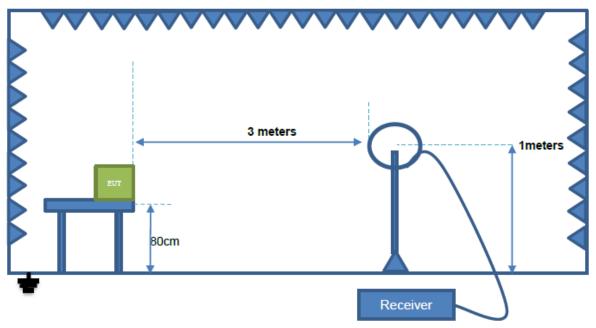
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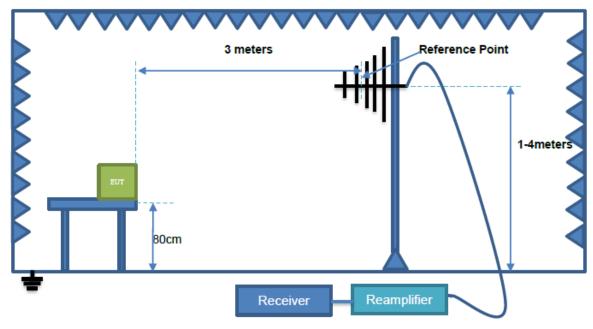
#### 6. RADIATION EMISSION TEST

6.1 Block Diagram of Test SetupRadiated Emission Test-Up Frequency Below 30MHz



Radiation Test (9k - 30MHz)

#### Below 1GHz



Radiation Test (30MHz - 1GHz)

# 6.2 Test Standard and Limit FCC Part 15 Subpart C

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#### Limits for frequency below 30MHz

Frequency	Limit (uV/m)	Measurement Distance(m)	Remark
0.009-0.090	2400/F(kHz)	300	AVERAGE
0.090-0.110	2400/F(kHz)	300	Quasi-peak Value
0.110-0.490	2400/F(kHz)	300	AVERAGE
0.490-1.705	24000/F(kHz)	30	Quasi-peak Value
1.705-30	30	30	Quasi-peak Value

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#### Above 30MHz

Frequency	Distance	Field Strengths Limits	Remark
(MHz)	(Meters)	(dB <sub>μ</sub> V/m)	
30 ~ 88	3	40.0	Quasi-peak Value
88 ~ 216	3	43.5	Quasi-peak Value
216 ~ 960	3	46.0	Quasi-peak Value
960 ~ 1000	3	54.0	Quasi-peak Value
Above 1000	3	74.0	PEAK
		54.0	AVERAGE

#### Remark:

- (1) The smaller limit shall apply at the cross point between two frequency bands.
- (2) Distance refers to the distance in meters between the measuring instrument, antenna and the closed point of any part of the device or system.

#### 6.3 EUT Configuration on Test

The FCC Part 15 Subpart C regulations test method must be used to find the maximum emission during radiated emission test.

The configuration of EUT is the same as used in conducted emission test.

Please refer to Section 5.3.

#### 6.4 Operating Condition of EUT

Same as conducted emission test, which is listed in Section 5.4 except the test set up replaced as Section 6.2.

#### 6.5 Test Procedure

- 1) The radiated emissions test was conducted in a semi-anechoic chamber.
- 2) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
- 3) Before final measurements of radiated emissions, a pre-scan was performed in the spectrum mode with the peak detector to find out the maximum emissions spectrum plots of the EUT.
- 4) The frequencies of maximum emission were determined in the final radiated emissions measurement. At each frequency, the EUT was rotated 360°, and the antenna was raised and lowered from 1 to 4 meters in order to determine the maximum disturbance. Measurements were performed for both horizontal and vertical antenna polarization.
  - 5) The bandwidth setting on the field strength meter (R&S Test Receiver ESCI) is set at 120KHz.
  - 6) The frequency range from 30MHz to 1000MHz is checked.

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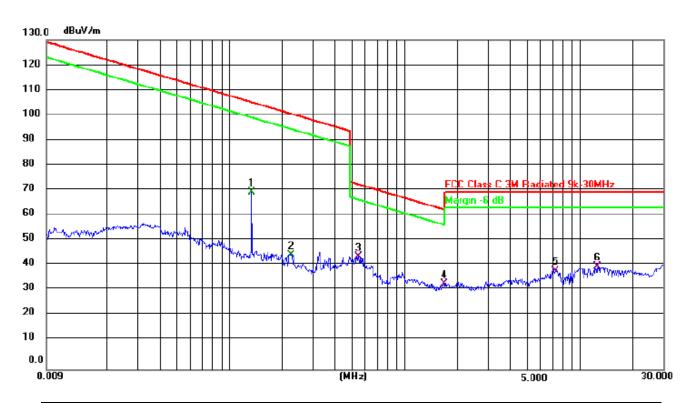


#### 6.6 Test Result

PASS, Please refer to the following page.

Radiation Emission Test Data 9 kHz~30 MHz							
Temperature:	24.5 ℃	Relative Humidity:	54%				
Pressure:	1009hPa	Polarization:	/				
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1(Mobile)				

Report No.: DL-20240428076-1E



Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
0.1340	69.92	10.22	80.14	105.35	-25.21	Peak
0.2253	45.36	10.47	55.83	100.8	-44.97	Peak
0.5453	44.82	10.88	55.7	73.06	-17.36	Peak
1.6846	30.76	10.23	40.99	63.11	-22.12	Peak
7.2545	37.79	10.18	47.97	70	-22.03	Peak
12.6965	38.49	10.69	49.18	70	-20.82	Peak

#### Note:

Pre-scan in the all of mode, the worst case in of was recorded.

Factor = antenna factor + cable loss - pre-amplifier.

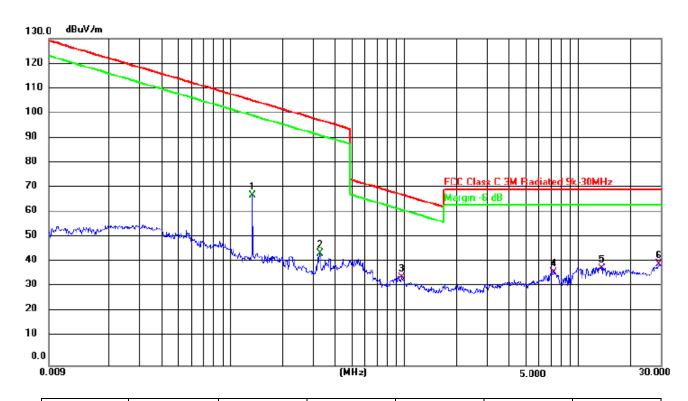
Margin = Emission Level(Meter Reading+ Factor) - Limit.

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Radiation Emission Test Data 9 kHz~30 MHz							
Temperature:	24.5 ℃	Relative Humidity:	54%				
Pressure:	1009hPa	Polarization:	/				
Test Voltage:	DC 3.7V	Test Mode:	Mode 7(Portable)				

Report No.: DL-20240428076-1E



Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
0.1340	67.92	10.22	78.14	105.35	-27.21	Peak
0.3271	43.74	10.47	54.21	97.54	-43.33	Peak
0.9703	33.40	10.88	44.28	67.97	-23.69	Peak
7.2545	34.79	10.23	45.02	70	-24.98	Peak
13.6584	36.62	10.18	46.8	70	-23.2	Peak
29.0422	38.61	10.69	49.3	70	-20.7	Peak

#### Note:

Pre-scan in the all of mode, the worst case in of was recorded.

Factor = antenna factor + cable loss – pre-amplifier.

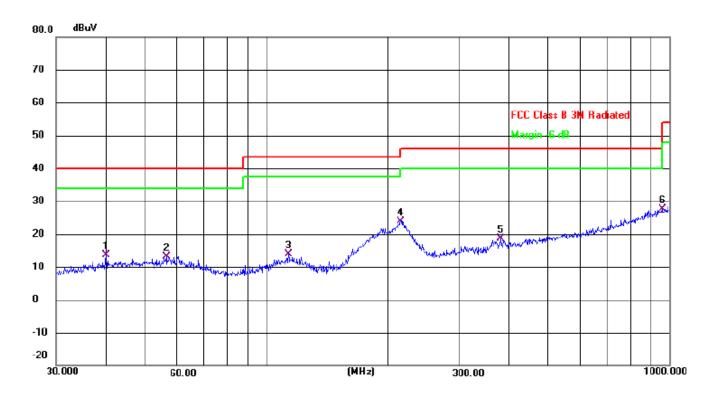
Margin = Emission Level(Meter Reading+ Factor) - Limit.

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Radiation Emission Test Data							
Temperature:	<b>24.5</b> ℃	Relative Humidity:	54%				
Pressure:	1009hPa	Polarization:	Horizontal				
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1(Mobile)				

Report No.: DL-20240428076-1E

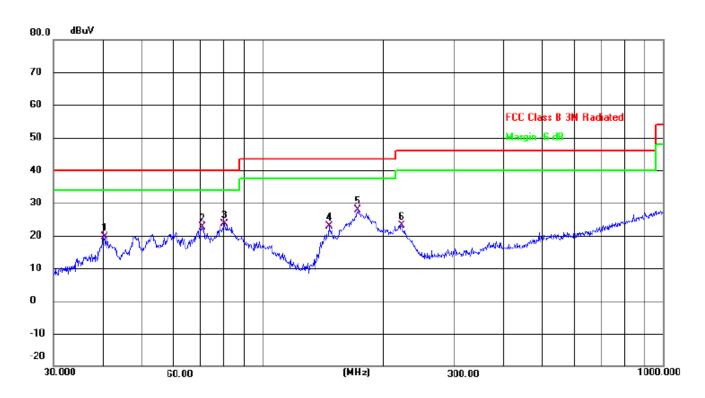


No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
	MHz	dBuV	dB	dBuV	dB	dB	Detector
1	39.9942	27.42	-13.83	13.59	40.00	-26.41	QP
2	56.3948	25.95	-12.88	13.07	40.00	-26.93	QP
3	113.3162	30.32	-16.52	13.80	43.50	-29.70	QP
4	215.2678	37.97	-14.12	23.85	43.50	-19.65	QP
5	379.9141	28.81	-10.11	18.70	46.00	-27.30	QP
6 *	958.7943	27.18	0.34	27.52	46.00	-18.48	QP

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Radiation Emission Test Data							
Temperature:	24.5 ℃	Relative Humidity:	54%				
Pressure:	1009hPa	Polarization:	Vertical				
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 1(Mobile)				



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
	MHz	dBuV	dB	dBuV	dB	dB	Detector
1	40.2756	33.38	-13.82	19.56	40.00	-20.44	QP
2	70.5835	38.19	-15.52	22.67	40.00	-17.33	QP
3	80.0805	41.09	-17.55	23.54	40.00	-16.46	QP
4	146.3734	40.56	-17.69	22.87	43.50	-20.63	QP
5 *	172.5987	44.17	-16.39	27.78	43.50	-15.72	QP
6	222.1697	36.94	-13.85	23.09	46.00	-22.91	QP

#### Remarks:

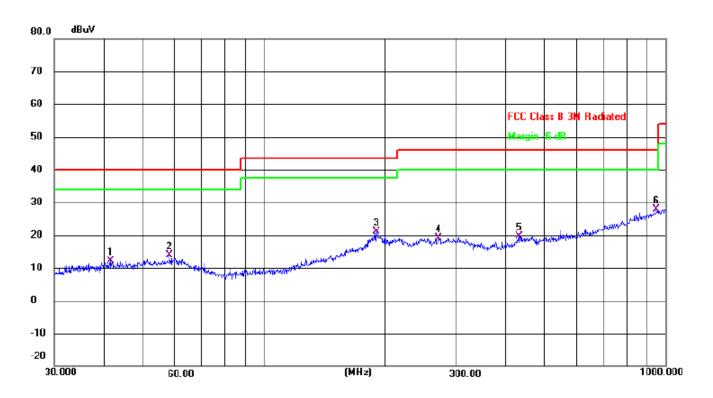
- 1.Final Level =Receiver Read level + Correct factor (Antenna Factor + Cable Loss Preamplifier Factor )
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.

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Radiation Emission Test Data							
Temperature:	24.5 ℃	Relative Humidity:	54%				
Pressure:	1009hPa	Polarization:	Horizontal				
Test Voltage:	DC 3.7V	Test Mode:	Mode 7(Portable)				

Report No.: DL-20240428076-1E

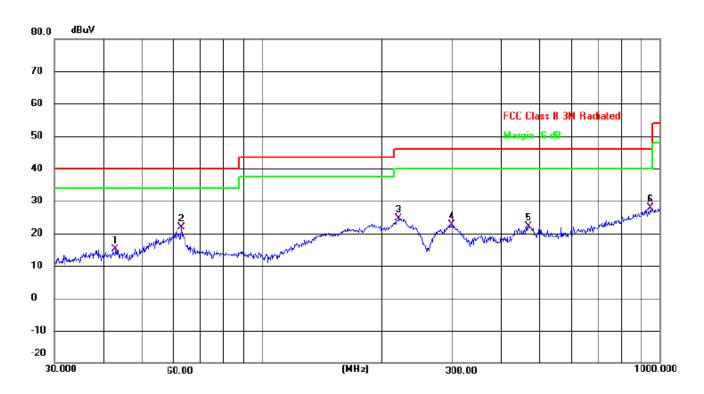


No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
	MHz	dBuV	dB	dBuV	dB	dB	Detector
1	41.4215	25.81	-13.75	12.06	40.00	-27.94	QP
2	58.2029	26.66	-12.79	13.87	40.00	-26.13	QP
3	190.4050	36.33	-15.30	21.03	43.50	-22.47	QP
4	272.2776	31.38	-12.14	19.24	46.00	-26.76	QP
5	432.5456	28.79	-9.04	19.75	46.00	-26.25	QP
6 *	948.7609	27.64	0.20	27.84	46.00	-18.16	QP

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Radiation Emission Test Data							
Temperature:	24.5 ℃	Relative Humidity:	54%				
Pressure:	1009hPa	Polarization:	Vertical				
Test Voltage:	DC 3.7V	Test Mode:	Mode 7(Portable)				



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
	MHz	dBuV	dB	dBuV	dB	dB	Detector
1	42.7495	28.84	-13.65	15.19	40.00	-24.81	QP
2 *	62.6506	35.41	-13.42	21.99	40.00	-18.01	QP
3	220.6171	38.43	-13.91	24.52	46.00	-21.48	QP
4	299.3158	33.99	-11.44	22.55	46.00	-23.45	QP
5	467.2349	30.41	-8.28	22.13	46.00	-23.87	QP
6	948.7609	27.64	0.20	27.84	46.00	-18.16	QP

#### Remarks:

- 1.Final Level =Receiver Read level + Correct factor (Antenna Factor + Cable Loss Preamplifier Factor )
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.

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#### 7. BANDWIDTH TEST

- 7.1 TEST SETUP
- 1. Set RBW = 3KHz.
- 2. Set the video bandwidth (VBW)  $\geq$  3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

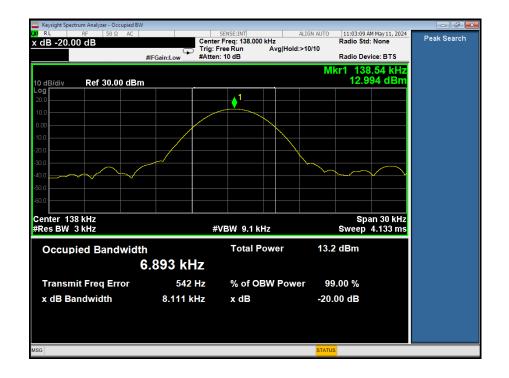
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#### 7.2 TEST SETUP



#### 7.3 TEST Result

Frequency (KHz)	20dB bandwidth (KHz)	Result
138	8.111	Pass



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#### 8. SETUP PHOTOGRAPHS

Reference to the setup photo for details.

#### 9. EUT PHOTOGRAPHS

Reference to the external and internal photo for details.

\*\*\*\* END OF REPORT \*\*\*\*

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