

TEST REPORT

Report Number	:	TZ0059250101FRF14
Product Name	:	Power Bank
Model/Type reference	:	PPKPC-0520
FCC ID	:	2A482-PPKPC0520
Prepared for	:	Shenzhen Baseus Technology Co., Ltd.
		2nd Floor, Building B, Baseus Intelligence Park, No.2008, Xuegang Rd, Gangtou Community, Bantian Street, Longgang District, Shenzhen, China

: Shenzhen Tongzhou Testing Co.,Ltd.				
1st Floor, Building 1, Haomai High-tech Park, Huating Road 387, Dalang Street, Longhua, Shenzhen, China				
: FCC CFR Title 47 Part 15 Subpart C, ANSI C63.10: 2013				
: Jan. 06, 2025~Jan. 16, 2025				
: Jan. 17, 2025				
Nancy Li (File administrators) Max Zhang (Technical Manager) Andy Zhang (General Manager) Max Zhang Andy Zhang Andy Zhang Andy Zhang				

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** Report Revise Record **

Report Version	Version Revise Time Issued Date		Valid Version	Notes	
V1.0	/	Jan. 17, 2025	Valid	Initial release	



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1. GENERAL INFORMATION

1.1. Client Information

Applicant	: Shenzhen Baseus Technology Co., Ltd.
Address	 2nd Floor, Building B, Baseus Intelligence Park, No.2008, Xuegang Rd, Gangtou Community, Bantian Street, Longgang District, Shenzhen, China
Manufacturer	: Shenzhen Baseus Technology Co., Ltd.
Address	 2nd Floor, Building B, Baseus Intelligence Park, No.2008, Xuegang Rd, Gangtou Community, Bantian Street, Longgang District, Shenzhen, China

1.2. Description of Device (EUT)

Product Name	: Power Bank
Trade Mark	: baseus
Model Number	: PPKPC-0520
Model Declaration	: /
Test Model	: PPKPC-0520
Power Supply	: DC 5V/9V by adapter or DC 3.6V by battery
Hardware version	: V1.1
Software version	: V1.0

1.3. Wireless Function Tested in this Report

WPT	
Operation Frequency	: 110.5kHz-148.5kHz
Test Frequency	: 137.8kHz
Modulation Technology	: ASK
Antenna Type and Gain	:Coil Antenna with 0dBi Gain

Note 1: Antenna position refer to EUT Photos. Note 2: the above information was supplied by the applicant.



The following peripheral devices and interface cables were connected during the measurement: • supplied by the manufacturer

Osupplied by the lab

0	Adapter	Model:	HW-200440C00
		Input:	AC:100V-240V 50/60Hz 2.4A
		Output:	USB-C:DC 5V/3A;9V/3A;10V/4A;11V/6A; 12V/3A;15V/3A;20V4.4A) USB-A:DC 5V/2A;10V/4A;11V/6A;20V/4.4A

1.5. Description of Test Facility

FCC

Designation Number: CN1275 Test Firm Registration Number: 167722 Shenzhen Tongzhou Testing Co.,Ltd has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA

Certificate Number: 5463.01 Shenzhen Tongzhou Testing Co.,Ltd has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

IC

ISED#: 22033 CAB identifier: CN0099 Shenzhen Tongzhou Testing Co.,Ltd has been listed by Innovation, Science and Economic Development Canada to perform electromagnetic emission measurement.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4 and CISPR 16-1-4:2010



1.6. Statement of the Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the Shenzhen Tongzhou Testing Co.,Ltd's quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

1.7. Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
Padiation Uncortainty		9KHz~30MHz	±3.08dB	(1)
Radiation Uncertainty	•	30MHz~1000MHz	±3.92dB	(1)
Conduction Uncertainty	:	150kHz~30MHz	±2.71dB	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.8. Description of Test Modes

The EUT has been tested under operating condition.

This test was performed with EUT in X, Y, Z position and the worst case was found when EUT in X position.

Test Modes:						
Mode 1	EUT + Wireless charger tester (WPT Load:15W for 110.5-148.5kHz)	Record				
Mode 2	EUT + Wireless charger tester (WPT Load:7.5W WPT for 110.5-148.5kHz)	Pre-test				
Mode 3	EUT + Wireless charger tester (WPT Load:5W for 110.5-148.5kHz)	Pre-test				
Mode 4	EUT + Wireless charger tester (WPT Load:0W for 110.5-148.5kHz)	Pre-test				
Mode 5	AC/DC adapter + EUT + Wireless charger tester (WPT Load:5W for 110.5-148.5kHz)	Pre-test				
Note:						
1. All test modes were pre-tested, but we only recorded the worst case in this report.						

2. The product is in a charging state, and the maximum output of wireless charging is 5W.



2. TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices. The radiated testing was performed at an antenna-to-EUT distance of 3 meters. All radiated and conducted emissions measurement was performed at Shenzhen Tongzhou Testing Co.,Ltd

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2. EUT Exercise

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 15.203, 15.205, 15.207, 15.209 under the FCC Rules Part 15 Subpart C.

2.3. Test Sample

Sample ID	Description	
TZ0059250101–1#	Normal sample	



3. SYSTEM TEST CONFIGURATION

3.1. Justification

The system was configured for testing in a continuous transmits condition.

3.2. Special Accessories

No.	Equipment	Manufacturer	Model No.	Serial No.	Length	shielded/ unshielded	Notes
1	WPT Test Load	YBZ	EPP	/	/	/	/

3.3. Block Diagram/Schematics

Please refer to the related document

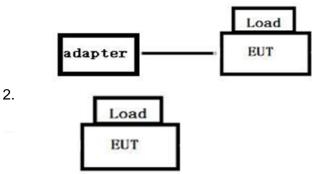
3.4. Equipment Modifications

Shenzhen Tongzhou Testing Co.,Ltd has not done any modification on the EUT.

3.5. Configuration of Tested System

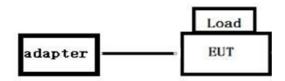
Radiated Emission Configure:

1.



Conducted Emission Configure:

1.



4. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Sample ID	Result
§15.215	Occupied Bandwidth	TZ0059250101–1#	Compliant
§15.209	Radiated Emissions	TZ0059250101–1#	Compliant
§15.207(a)	Conducted Emissions	TZ0059250101–1#	Compliant
§15.203	Antenna Requirements	TZ0059250101–1#	Compliant

Remark: The measurement uncertainty is not included in the test result.





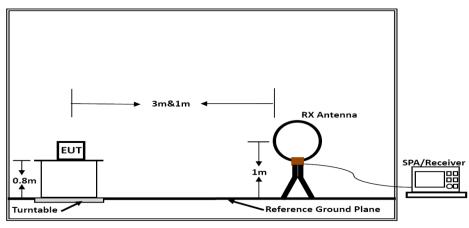
5. TEST RESULT

5.1. Bandwidth Measurement

5.1.1. Standard Applicable

CFR 47 Part 15.215(c).

5.1.2. Block Diagram of Test Setup



Below 30MHz

5.1.3. Test Procedures

Set the parameters of SPA as below:

- 1. Centre frequency = Operation Frequency
- 2. The resolution bandwidth of 300 Hz and the video bandwidth of 1000 Hz were used.
- 3. Span: 3kHz, Sweep time: Auto
- 4. Set the EUT to continue transmitting mode. Allow the trace to stabilize. Use the "N dB down" function of SPA to define the bandwidth.
- 5. Measured the spectrum width with power higher than 20dB below carrier.
- 6. Record the plots and reported.

5.1.4. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.



Temperature	22.8	22.8 ℃		ity	55%	
Test Engineer	Tony	Tony Luo		urations	Mode 1	
Mode	Freq (kHz)	20dB Bandwidth (Hz)		Limit (kHz)	Conclusion	
TX Mode	137.8	811		/	PASS	

🎉 Keysight Spectrum Analyzer - Occupied BW					
Center Freq 137.800 kHz #I		SENSE:INT Center Freq: 137.800 kH Trig: Free Run A #Atten: 10 dB	ALIGN AUTO Z Vg Hold:>10/10	02:28:00 PMJan 16, 2025 Radio Std: None Radio Device: BTS	Frequency
10 dB/div Ref 0.00 dBm					Center Fred 137.800 kHz
40.0 40.0 50.0 60.0					
80.0					
Center 137.8 kHz #Res BW 300 Hz		#VBW 1 kHz		Span 3 kHz Sweep 40.87 ms	CF Step 300 H Auto Mar
Occupied Bandwidth	689 H	Total Pow Z	ver -24.0	dBm	Freq Offse
Transmit Freq Error x dB Bandwidth	30 H 811 H			0.00 % 00 dB	0 H:
ISG			STATUS	3	



5.2. Radiated Emissions Measurement

5.2.1. Standard Applicable

15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
\1\ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.Android 10-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293.	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725 13.36-13.41	322-335.4	3600-4400	(\2\)

13.36-13.41 \1\ Until February 1, 1999, this restricted band shall be 0.490-0.510MHz.

\2\ Above 38.6

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3



5.2.2. Measuring Instruments and Setting

The following table is the setting of spectrum analyzer and receiver.

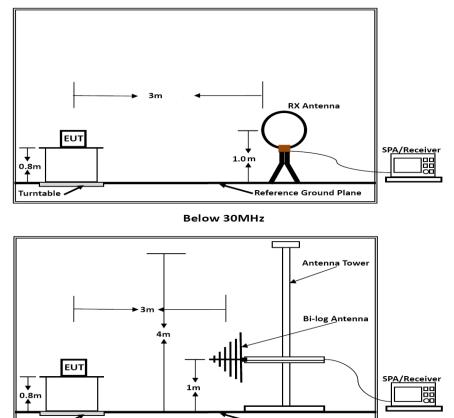
Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10 th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 3 MHz for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for Peak, 1 MHz / 3 MHz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB/VB 200Hz/1KHz for QP/AVG
Start ~ Stop Frequency	150kHz~30MHz / RB/VB 9kHz/30KHz for QP/AVG
Start ~ Stop Frequency	30MHz~1000MHz / RB/VB 120kHz/1MHz for QP

5.2.3. Block Diagram of Test Setup

For radiated emissions below 30MHz

Turntable 🖊



Below 1GHz

Reference Ground Plane



1) Sequence of testing 9 kHz to 30 MHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.

- --- If the EUT is a floor standing device, it is placed on the ground.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

Premeasurement:

--- The turntable rotates from 0° to 315° using 45° steps.

--- The antenna height is 1.0 meter.

--- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions **Final measurement:**

--- Identified emissions during the premeasurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).

--- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.

--- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

2) Sequence of testing 30 MHz to 1 GHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

- --- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

Premeasurement:

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna is polarized vertical and horizontal.
- --- The antenna height changes from 1 to 3 meter.

--- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement:

--- The final measurement will be performed with minimum the six highest peaks.

--- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter.

--- The final measurement will be done with QP detector with an EMI receiver.

--- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

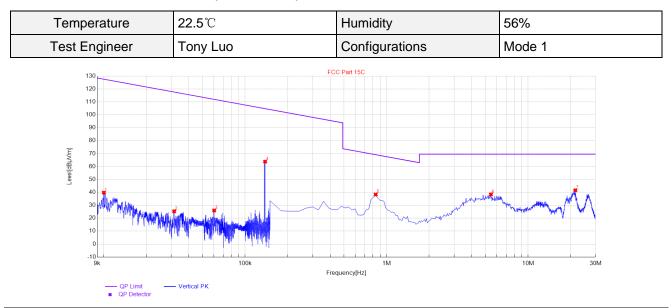


5.2.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.2.6. Test Results

Results of Radiated Emissions (9kHz-30MHz)



Suspecte	Suspected Data List							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	0.010022	39.81	37.79	127.57	87.76	100	20	Coaxial
2	0.031472	25.36	29.58	117.63	92.27	100	40	Coaxial
3	0.060395	25.96	27.16	111.97	86.01	100	80	Coaxial
4	0.13780	63.77	26.45	104.78	41.01	100	180	Coaxial
5	0.83655	38.31	26.31	69.15	30.84	100	350	Coaxial
6	5.4633	38.41	23.51	69.54	31.13	100	40	Coaxial
7	21.5823	41.62	24.93	69.54	27.92	100	60	Coaxial

Note:

Distance extrapolation factor = 40 log (specific distance / test distance) (dB).

Limit line = specific limits (dBuV) + distance extrapolation factor.

Measured at antenna position coaxial and coplanar, only record the Coaxial.

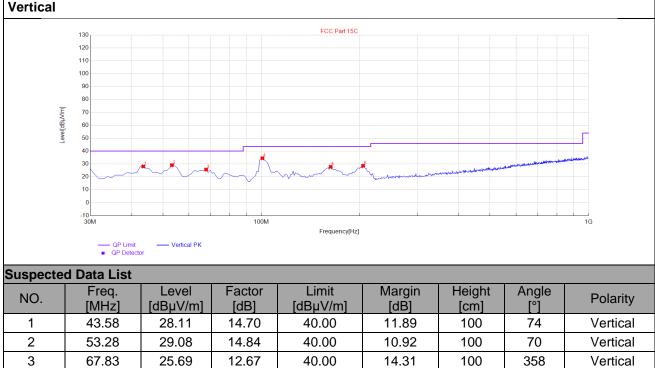


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Results of Radiated Emissions (30MHz~1GHz)

Temperature	22.5 ℃	Humidity	56%
Test Engineer	Tony Luo	Configurations	Mode 1

Vertical



43.50

43.50

43.50

9.02

15.68

14.83

100

100

100

124

4

170

Vertical

Vertical

Vertical

4

5

1. Level $[dB\mu V/m]$ = Reading $[dB\mu V]$ + Factor [dB/m]

34.48

27.82

28.67

12.23

16.22

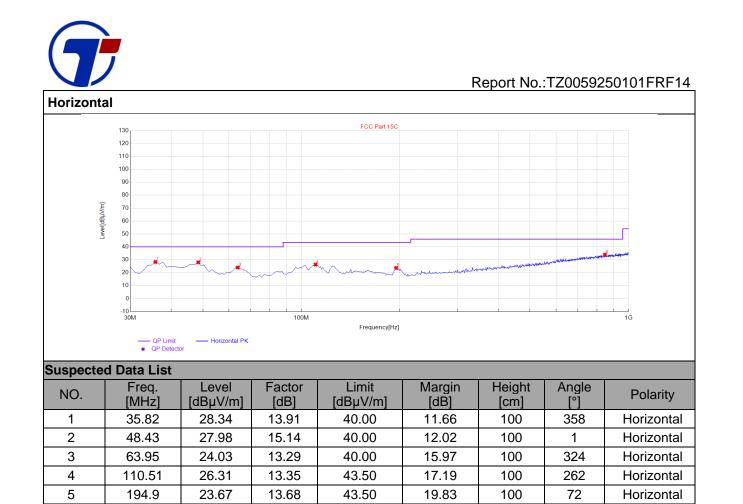
13.59

2. Margin $[dB] = \text{Limit} [dB\mu V/m] - \text{Level} [dB\mu V/m]$

100.81

162.89

204.6



46.00

100

161

Horizontal

12.01

6 ***Note:

1. Level [dBµV/m] = Reading [dBµV] + Factor [dB/m]

33.99

28.37

2. Margin [dB] = Limit [dBµV/m] - Level [dBµV/m]

846.74



5.3. AC Power line conducted emissions

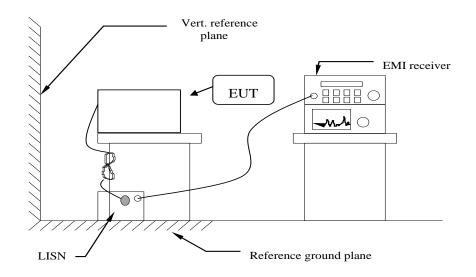
5.3.1. Standard Applicable

According to §15.207 (a): For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

Frequency Range	Limits (dBµV)		
(MHz)	Quasi-peak	Average	
0.15 to 0.50	66 to 56	56 to 46	
0.50 to 5	56	46	
5 to 30	60	50	

* Decreasing linearly with the logarithm of the frequency

5.3.2. Block Diagram of Test Setup



Note: the distance between LISN and Vertical reference plane is 40 cm and the distance between LISN and EUT is 80 cm.



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5.3.3.	Test Results	

Temperature	22.5 ℃	Humidity	56%
Test Engineer	Tony Luo	Configurations	Mode 5

Level [dBµV]								
80								
70	·							
60								!
50								
40+								
30		whether the state	-	etettett	a na anna tha th' th'	a a di li		ul M
20				-katti hilim			- III - III-	
10	·							
0+						+		
-10								
150k	300k 400k	600k 800k 11		2M 3M equency [Hz]	4M 5M 6M	8M 10M		20M 30
Frequency				Margin	Detector	Line	PE	
MHz	dBµV	dB	dBµV	dB				
2.710000	29.60	10.5	56	26.4	QP	N	GND	
2.946000	28.90	10.5	56	27.1	QP	N	GND	
27.782000		17.5	60	23.3	QP	N	GND	
28.018000	36.80	17.6	60	23.2	QP	N	GND	
28.254000	36.80	17.6	60	23.2	QP	N	GND	
28.726000	35.10	17.8	60	24.9	QP	N	GND	
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
MHz	dBµV	dB	dBµV	dB				
27.782000	35.80	17.5	50	14.2	AV	N	GND	
28.018000	35.30	17.6	50	14.7	AV	N	GND	
28.254000	34.40	17.6	50	15.6	AV	N	GND	
28.490000	33.60	17.7	50	16.4	AV	N	GND	
28.726000	31.90	17.8	50	18.1	AV	N	GND	
29.198000	28.40	17.9	50	21.6	AV	N	GND	

1. Margin(dB)= Limit(dB μ V) - Level(dB μ V) 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit. 3. Test setup: RBW: 9 kHz (150 kHz—30 MHz), Step size: 4 kHz, Scan time: auto.

Line					Report No.:1			
Level [dBµV]								
30								
70			i					
50			!			1	1	
50		·						
10	+					.	.	
30 minution	han had a	A CONTRACTOR OF THE OWNER	beter beter	ha h	اللابينية والمتعالم والألامية	Uthanga till the second	lifter - additional	è
20		- سايديا وليداي	L-F-F-H		na Mandara Mand	and the second		
IO								
0++	· · · · · ·			·		 		
			i			1 1	i	
150k 300k 4	00k 600k	800k 1M	2M	3M 4M	5M 6M 8M 10	DM	20M	3(
			Frequency					
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
MHz	dBµV	dB	dBµV	dB				
			_					
2.470000	23.50	10.5	56	32.5	QP	L1	GND	
2.706000	26.60	10.5	56	29.4	QP	ь1	GND	
28.058000	34.60	17.6	60	25.4	QP	L1	GND	
28.530000	35.70	17.7	60	24.3	QP	L1	GND	
28.766000	35.90	17.8	60	24.1	QP	L1	GND	
29.238000	35.70	17.9	60	24.3	QP	ь1	GND	
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	
MHz	dBµV	dB	dBuV	dB	Decector	птис	PD.	
PH12	αυμν	ab	ωpμv	ab				
2.706000	20.30	10.5	46	25.7	AV	L1	GND	
28.294000	33.80	17.6	50	16.2	AV	L1	GND	
28.530000	34.20	17.7	50	15.8	AV	L1	GND	
28.766000	34.70	17.8	50	15.3	AV	L1	GND	
29.002000	34.80	17.8	50	15.2	AV	L1	GND	
29.238000	34.60	17.9	50	15.2	AV	L1		
29.238000	34.60	17.9	50	15.4	AV	11	GND	

If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
 Test setup: RBW: 9 kHz (150 kHz—30 MHz), Step size: 4 kHz, Scan time: auto.



5.4.1. Standard Applicable

According to antenna requirement of §15.203.

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be re-placed by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

5.4.2. Antenna Connected Construction

The antenna is an Internal antenna connect to PCB board and no consideration of replacement. Please see EUT photo for details.

5.4.3. Results

Compliant.



6. LIST OF MEASURING EQUIPMENTS

Item	Test Equipment	Manufacturer		Model No.	Serial No.		oration ate	Calibration Due Date		
1	Loop Antenna	schwarzbeck		FMZB1519 B	00023	2022	2/11/13	2025/11/12		
2	Wideband Antenna	schwarzbeck		VULB 9163	958	2022	2/11/13	2025/11/12		
3	EMI Test Receiver	R&S		ESCI	100849/003	2024	-12-31	2025-12-30		
4	Controller	MF		MF7802	N/A	١	I/A	N/A		
5	Amplifier	schwarzbeck		BBV 9743	209	2024	/12/31	2025/12/30		
6	Amplifier	Tonscend		TSAMP-05 18SE		2024	/12/31	2025/12/30		
7	RF Cable(below 1GHz)	HUBER+SUHN ER		RG214	N/A	2024/12/31		2025/12/30		
8	Artificial Mains	ROHDE & SCHWARZ		ENV 216	101333-IP	2024/12/31		2025/12/30		
Test software used:										
Item	Test Software		Man	ufacturer	Name		Version			
1	EMI Test Software RC		OHDE & SCHWARZ		ES-K1		V1.71			
2	RE test software		Το	nscend	JS32-RE		V5.0.0.0			



7. TEST SETUP PHOTOGRAPHS OF EUT

Please refer to separated files for Test Setup Photos of the EUT.

8. EXTERIOR PHOTOGRAPHS OF EUT

Please refer to separated files for External Photos of the EUT.

9. INTERIOR PHOTOGRAPHS OF EUT

Please refer to separated files for Internal Photos of the EUT.

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