FCC TEST REPORT			
	FCC ID: 2BEF7-PWR-09		
Report No.	: <u>SSP24010012-1E</u>		
Prepared For	: CLICKWIN LLC.		
Product Name	: POWER BANK		
Model Name	: <u>PWR-09</u>		
FCC Rule	: FCC Part 15 Subpart C		
Date of Issue	: 2024-03-13		
Prepared By	: Shenzhen CCUT Quality Technology Co., Ltd.		
	CCUT		
	enzhen CCUT Quality Technology Co., Ltd.		
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-	above client company and the product model only. It may not be duplicated permitted by Shenzhen CCUT Quality Technology Co., Ltd.		

Test Report Basic Information

Applicant	CLICKWIN LLC.		
Address of Applicant	530 S. Los Angeles St. Unit 2, Los Angeles, California 90013. United States		
Manufacturer : Address of Manufacturer:	Dongguan Xiangzhiqing Electronics Co., Ltd. Building 8, 319 Shipai section, Dongyuan Avenue, Shipai, Dongguan, Guangdong province		
Product Name:	POWER BANK		
Brand Name:	KB KBOD		
Main Model	PWR-09		
Series Models	-		
Test Standard Date of Test Test Result	FCC Part 15 Subpart C ANSI C63.10-2013 2024-01-03 to 2024-01-12 PASSED		
Tested Engineer: Project Manager:	Colin Chen (Colin Chen) Lieber Quyang (Lieber Ouyang)		
Authorized Signatory	Lahm Peng (Lahm Peng)		
-	to the above client company and the product model only. It may not be ted by Shenzhen CCUT Quality Technology Co., Ltd All test data presented in		
this test report is only applicabl			

CONTENTS

1. General Information	5
1.1 Product Information	
1.2 Test Setup Information	6
1.3 Compliance Standards	
1.4 Test Facilities	
1.5 List of Measurement Instruments	
1.6 Measurement Uncertainty	8
2. Summary of Test Results	9
3. Antenna Requirement	
3.1 Standard and Limit	10
3.2 Test Result	10
4. Conducted Emissions	11
4.1 Standard and Limit	11
4.2 Test Procedure	11
4.3 Test Data and Results	12
5. Radiated Emissions	15
5.1 Standard and Limit	15
5.2 Test Procedure	15
5.3 Test Data and Results	
6. Occupied Bandwidth	21
6.1 Standard and Limit	21
6.2 Test Procedure	21
6.3 Test Data and Results	21

Revision History

Revision	Issue Date	Description	Revised By
V1.0	2024-03-13	Initial Release	Lahm Peng

1. General Information

1.1 Product Information

Product Name:	POWER BANK
Trade Name:	KB KBOD
Main Model:	PWR-09
Series Models:	-
	Input: 5V-2A (Micro)
Rated Voltage:	Input: 5V=2A (Type-C)
	USB Output: 5V=2.1A (USB-A)
	Wireless Charging Output: 5W, 7.5W, 10W
Power Adapter:	N/A
Battery:	18.5Wh (5000mAh, 3.7V)
Hardware Version:	V1.0
Software Version:	V1.0
Note 1: The test data is gath	nered from a production sample, provided by the manufacturer.

Wireless Specification	
Wireless Standard:	Wireless charging
Operating Frequency:	110.5kHz-205kHz
Max. Field Strength:	53.74dBuV/m
Modulation:	ASK
Antenna Gain:	0dBi
Type of Antenna:	Coil Antenna
Type of Device:	Portable Device Device Mobile Device

1.2 Test Setup Information

List of Test Modes						
Test Mode	Description			Remark		
TM1	Wireles	s charging 5W		-		
TM2	Wireless	charging 7.5W		-		
TM3	Wireless	s charging 10W		-		
List and Detai	List and Details of Auxiliary Cable					
Description Length (cm)			Shielded/Unshielded	With/Without Ferrite		
-		-		-	-	
-		-		-	-	
List and Detai	List and Details of Auxiliary Equipment					
Description Manufacturer		r	Model	Serial Number		
Dumm	y load	-		DL01	-	
Adap	ter	PISEN		Adapter	-	

1.3 Compliance Standards

Compliance Standards		
ECC Dout 15 Submont C	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES,	
FCC Part 15 Subpart C	Intentional Radiators	
All measurements contained in this	report were conducted with all above standards	
According to standards for test n	nethodology	
FCC Part 15 Subpart C	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES,	
	Intentional Radiators	
	American National Standard for Methods of Measurement of Radio-Noise Emissions	
ANSI C63.4-2014	from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.	
ANSI C63.10-2013	American National Standard of Procedures for Compliance Testing of Unlicensed	
ANSI C63.10-2013	Wireless Devices	
Maintenance of compliance is the re	esponsibility of the manufacturer or applicant. Any modification of the product, which	
result is lowering the emission, show	ald be checked to ensure compliance has been maintained.	

1.4 Test Facilities

	Shenzhen CCUT Quality Technology Co., Ltd.			
Laboratory Name:	1F, Building 35, Changxing Technology Industrial Park, Yutang Street,			
	Guangming District, Shenzhen, Guangdong, China			
CNAS Laboratory No.:	L18863			
A2LA Certificate No.:	6893.01			
FCC Registration No:	583813			
ISED Registration No.:	CN0164			
All measurement facilities used to collect the measurement data are located at 1F, Building 35, Changxing				
Technology Industrial Park, Yut	ang Street, Guangming District, Shenzhen, Guangdong, China.			

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date		
	Conducted Emissions						
AMN	ROHDE&SCHWARZ	ENV216	101097	2023-07-31	2024-07-30		
EMI Test Receiver	ROHDE&SCHWARZ	ESPI	100242	2023-07-31	2024-07-30		
		Radiated Emissio	ons				
EMI Test Receiver	ROHDE&SCHWARZ	ESPI	100154	2023-07-31	2024-07-30		
Spectrum Analyzer	KEYSIGHT	N9020A	MY48030972	2023-07-31	2024-07-30		
Amplifier	SCHWARZBECK	BBV 9743B	00251	2023-07-31	2024-07-30		
Amplifier	HUABO	YXL0518-2.5-45		2023-07-31	2024-07-30		
Loop Antenna	DAZE	ZN30900C	21104	2023-08-07	2024-08-06		
Broadband Antenna	SCHWARZBECK	VULB 9168	01320	2023-08-07	2024-08-06		
Horn Antenna	SCHWARZBECK	BBHA 9120D	02553	2023-08-07	2024-08-06		
Conducted RF Testing							
RF Test System	MWRFTest	MW100-RFCB	220418SQS-37	2023-07-31	2024-07-30		
Spectrum Analyzer	KEYSIGHT	N9020A	ATO-90521	2023-07-31	2024-07-30		

1.5 List of Measurement Instruments

1.6 Measurement Uncertainty

Test Item	Conditions	Uncertainty
Conducted Emissions	9kHz ~ 30MHz	±1.64 dB
Radiated Emissions	9kHz ~ 30MHz	±2.88 dB
	30MHz ~ 1GHz	±3.32 dB
	1GHz ~ 18GHz	±3.50 dB
	18GHz ~ 40GHz	±3.66 dB
Occupied Bandwidth	9kHz ~ 26GHz	±4.0 %

2. Summary of Test Results

FCC Rule	Description of Test Item	Result		
FCC Part 15.203	Antenna Requirement	Passed		
FCC Part 15.207	Conducted Emissions	Passed		
FCC Part 15.209	Radiated Emissions	Passed		
FCC Part 15.215(c)	Occupied Bandwidth	Passed		
Passed: The EUT complies with the essential requirements in the standard Failed: The EUT does not comply with the essential requirements in the standard N/A: Not applicable				

3. Antenna Requirement

3.1 Standard and Limit

According to FCC Part 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.

3.2 Test Result

This product has an coil antenna, fulfill the requirement of this section.

4. Conducted Emissions

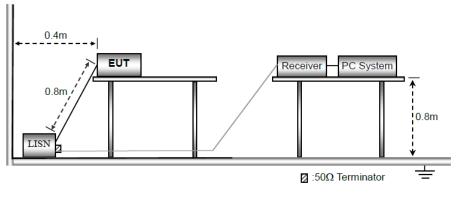
4.1 Standard and Limit

According to the rule FCC Part 15.207, Conducted emissions limit, the limit for a wireless device as below:

Frequency of Emission	Conducted emissions (dBuV)				
(MHz)	Quasi-peak	Average			
0.15-0.5	66 to 56	56 to 46			
0.5-5	56	46			
5-30	60 50				
Note 1: Decreases with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz					
Note 2: The lower limit applies at the band edges					

4.2 Test Procedure

Test is conducting under the description of ANSI C63.10 - 2013 section 6.2.



Test Setup Block Diagram

a) The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

b) The following is the setting of the receiver
Attenuation: 10dB
Start Frequency: 0.15MHz
Stop Frequency: 30MHz
IF Bandwidth: 9kHz

c) The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

d) Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

e) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

f) LISN is at least 80 cm from nearest part of EUT chassis.

g) For the actual test configuration, please refer to the related Item - photographs of the test setup.

4.3 Test Data and Results

Based on all tested mode data, the EUT complied with the FCC Part 15.207 standard limit for a wireless device, and with the worst case TM3 as below:

Remark: Level = Reading + Factor, Margin = Level - Limit

Test l	Plots and Data o	f Conducte	ed Emissio	ons								
Teste	ed Mode:	TM3	ГМЗ									
Test	Voltage:	AC 1	AC 120V/60Hz									
Test	Power Line:	Neut	ral									
Rema	ark:											
90.0	dBu¥											
80												
70												_
60									FCC Pa	rt15 CE-Class	B_QP	-
50	1								FCC Pa	rt15 CE-Class	B_AVe	-
40		3		5 X	Z L L L M MAR MAR MAR	Maria.	9				11 1000	-
30	L M& LW L	MM	NT M		Who who who	YUKNYK (MANA)	Wr Hay Xille	HW WWW	4.~1	an physical William Strategy		-
20	L-A-A-	mm	AMAN	WAMAN	MANNA ANA ANA ANA ANA ANA ANA ANA ANA AN	WWWWWW	Holly Asia			AK MANA ANA ANA ANA ANA ANA ANA ANA ANA AN		
10							···· • •		1.484P\$11111	μ ν "		peak
0												AVG
-10												
0.1	150	0.50	0		(MHz)		5.0	00			30.0	000
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Rem	ark		
1	0.2220	34.95	9.63	44.58	62.74	-18.16	QP	Р				
2	0.2220	19.80	9.63	29.43	52.74	-23.31	AVG	Р				
3 *		30.27	9.86	40.13	56.00	-15.87	QP	Ρ				
4	0.5370	16.95	9.86	26.81	46.00	-19.19		Р				
5	1.2975	28.43	10.02	38.45	56.00	-17.55	QP	P				
6	1.2975	16.61	10.02	26.63	46.00	-19.37	AVG	P				
7	2.2065	29.49	10.06	39.55	56.00	-16.45	QP	P				
8	2.2065	15.89	10.06	25.95	46.00	-20.05	AVG	P				
9	4.5870	23.36	10.19	33.55	56.00	-22.45	QP	P				
10	4.5870	6.45	10.19	16.64	46.00	-29.36	AVG	P				
11	18.7710	28.57	10.29	38.86	60.00	-21.14	QP	Р				
12	18.7710	15.77	10.29	26.06	50.00	-23.94	AVG	Р				

Test	Plots and Data	a of Conduct	ed Emissio	ons									
Teste	ed Mode:		TM3										
Test	Voltage:		AC 120V/	60Hz									
Test	Power Line:		Live										
Rem	ark:												
90.0	dBuV												_
80													
70													_
60									FCC	Pa	t15 CE-Class B	_QP	-
50									FCC	Pa	t15 CE-Class B	_AVe	-
40		3		5	And the part	9 9						11	_
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0													AVG
-10													
0.1	150	0.5	00		(MHz)		5.0	00				30.0	D O O
No	Frequency (MHz)	/ Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	R	ema	ark		
1	0.2310	32.76	9.31	42.07	62.41	-20.34	QP	Ρ					
2	0.2310	19.31	9.31	28.62	52.41	-23.79	AVG	P					
3	0.5370	28.75	9.94	38.69	56.00	-17.31	QP	Ρ					
4	0.5370	18.45	9.94	28.39	46.00	-17.61	AVG	P					
5	1.1849	28.04	10.02	38.06	56.00	-17.94	QP	P					
6	1.1849	12.03	10.02	22.05	46.00	-23.95	AVG	P					
7	2.2335	28.89	10.06	38.95	56.00	-17.05	QP	P					
8	2.2335	17.57	10.06	27.63	46.00	-18.37	AVG	P					
9		29.55	10.09	39.64	56.00	-16.36	QP	P					
10		17.61	10.09	27.70 39.40	46.00	-18.30	AVG QP	P P					
11		28.91	10.49 10.49	39.40 24.57	60.00 50.00	-20.60 -25.43	AVG	P P					
12	19.0000	14.00	10.49	24.07	00.00	-20.43	AVG	٢					

5. Radiated Emissions

5.1 Standard and Limit

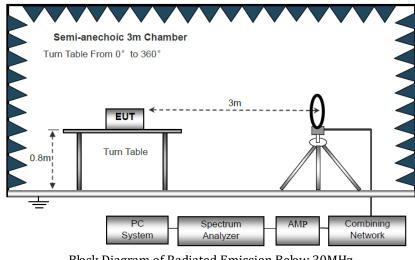
According to the rule FCC Part 15.209, Radiated emission limit for a wireless device as below:

Frequency of Emission	Field Strength	Measurement Distance		
(MHz)	(micorvolts/meter)	(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		
Note: The more stringent limit applies at transition frequencies.				

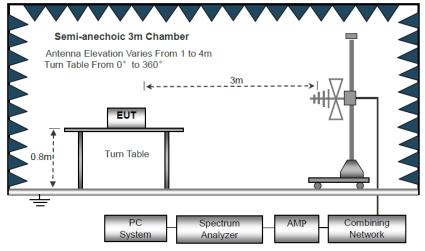
Note: Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

5.2 Test Procedure

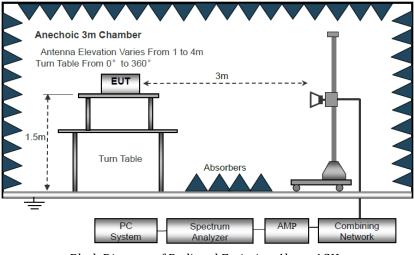
Test is conducting under the description of ANSI C63.10 - 2013 section 6.3 to 6.6.



Block Diagram of Radiated Emission Below 30MHz



Block Diagram of Radiated Emission From 30MHz to 1GHz



Block Diagram of Radiated Emission Above 1GHz

a) The EUT is placed on a turntable, which is 0.8m above ground plane for test frequency range below 1GHz, and 1.5m above ground plane for test frequency range above 1GHz.

b) EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.

c) Use the following spectrum analyzer settings: Span = wide enough to fully capture the emission being measured RBW = 1 MHz for $f \ge 1$ GHz, 100 kHz for f < 1 GHz, 10kHz for f < 30MHz VBW \ge RBW, Sweep = auto Detector function = peak Trace = max hold

d) Follow the guidelines in ANSI C63.4-2014 with respect to maximizing the emission by rotating the EUT, adjusting the measurement antenna height and polarization, etc. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, submit this data. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

e) The peak level, once corrected, must comply with the limit specified in Section 15.209. Set the RBW = 1MHz, VBW = 10Hz, Detector = PK for AV value, while maintaining all of the other instrument settings.

f) For the actual test configuration, please refer to the related item - EUT test photos.

5.3 Test Data and Results

Based on all mode tested data, the EUT complied with the FCC Part 15.209 standard limit for a wireless device, and with the worst case TM3 as below:

Test Data of Radiated Emissions from9kHz to 30MHz						
Test Mode:	e: TM3 Phase: Coplaner					
Test Voltage:	DC 5V					
Remark:						

Frequency	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
0.0761	53.47	109.98	-56.51	Pass
0.0916	46.21	108.37	-62.16	Pass
0.1302	53.74	105.31	-51.57	Pass
0.1500	51.50	104.08	-52.58	Pass
0.2280	47.64	100.45	-52.81	Pass
0.2686	47.06	99.02	-51.96	Pass

Test Mode:	TM3	Phase:	Coaxial
Test Voltage:	DC 5V		
Remark:			

Frequency	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
0.0742	52.36	110.20	-57.84	Pass
0.0892	45.82	108.53	-62.71	Pass
0.1302	53.74	105.31	-51.57	Pass
0.1514	52.96	104.00	-51.04	Pass
0.1804	49.77	102.48	-52.71	Pass
0.2242	48.05	100.59	-52.54	Pass

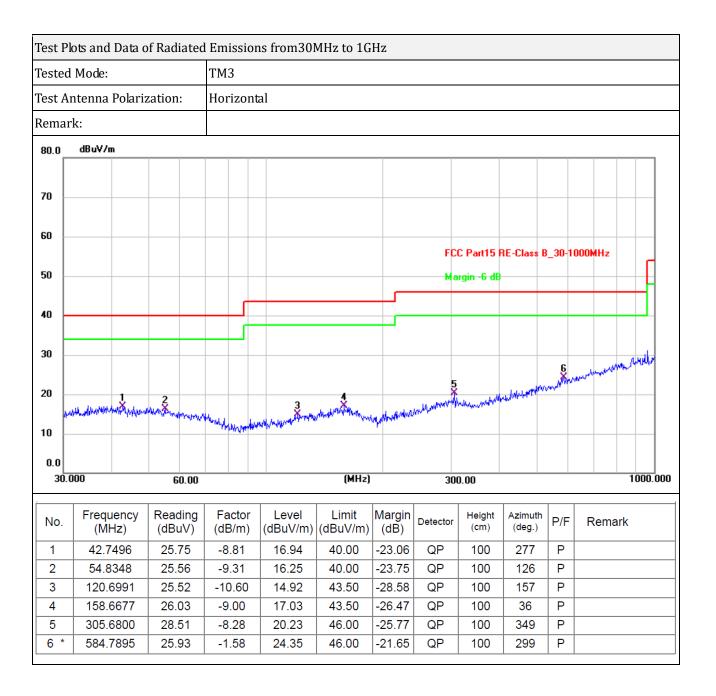
Note:

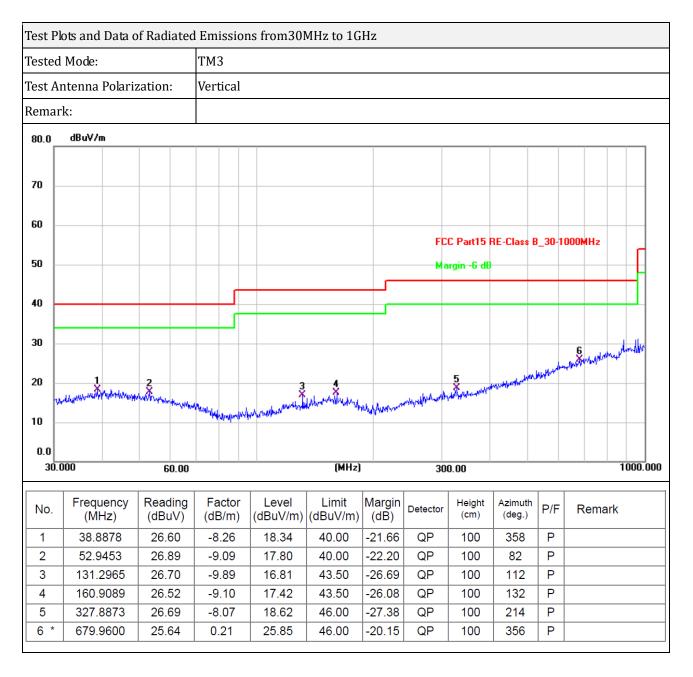
Pre-scan in the all of mode, the worst case in of was recorded.

Limit dBuV/m @3m = Limit dBuV/m @300m+ 80

Limit dBuV/m @3m = Limit dBuV/m @30m + 40

Margin = Reading - Limit.





Note 1: this EUT was tested in 3 orthogonal positions and the worst case position data was reported. Note 2: Testing is carried out with frequency rang 9kHz to the tenth harmonics. The measurements greater than 20dB below the limit from 9kHz to 30MHz.

Note 3: For 9kHz-30MHz, Distance extrapolation factor =40 log (specific distance/test distance)(dB);

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

Note 4: Level = Reading + Factor, Margin = Level – Limit.

6. Occupied Bandwidth

6.1 Standard and Limit

According to 15.215 (c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

6.2 Test Procedure

According to the ANSI 63.10-2013, section 6.9, the emission bandwidth test method as follows.

1) Remove the antenna from the EUT and connect to the spectrum analyzer via a low loss RF cable.

2) Set the spectrum analyzer to any one measured frequency within its operating range.

3) Set RBW = 1% of the 20 dB bandwidth, VBW = RBW.

4) Set Sweep = Auto, Detector function = peak, Trace = max hold.

5) Set a reference level on the measuring instrument equal to the highest peak value.

6) Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.

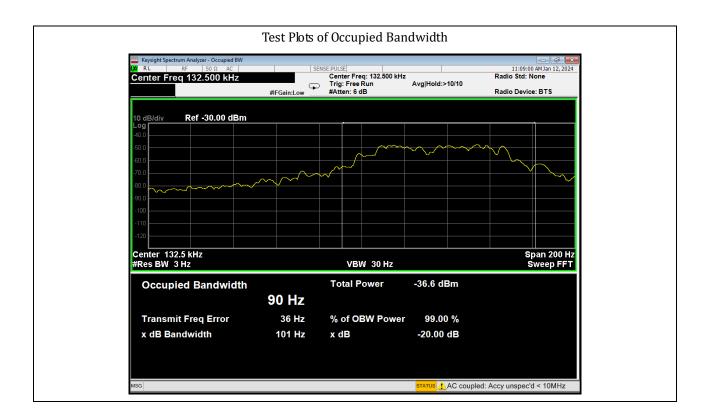
All the trace to stabilize, use the marker-to-peak function to set the marker to the peak of the emission, use the marker-delta function to measure and record the 20dB down and 99% bandwidth of the emission.



Test Setup Block Diagram

6.3 Test Data and Results

Test Frequency	20dB Bandwidth	99% Bandwidth
132.5kHz	101Hz	90Hz



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