

FCC AND ISCED CERTIFICATION TEST REPORT

Applicant	:	Omni Power Technology, Inc.
Address	:	5055 Wilshire Blvd. Ste 835 Los Angeles, CA 90036 US USA
Equipment under Test	:	PORTABLE POWER BANK
Model No.	:	Omni 80C+, Power 80C+
Trade Mark	:	N/A
FCC ID	:	2BOQC-80CPLUS
IC	:	33793-80CPLUS
Manufacturer	:	Omni Power Technology, Inc.
Address	:	No.3 JinPing Street, Ya An Road, Nankai District, Tianjin, 300190 China
Report No.	:	DDT-B24121712-2E01
Issue Date	:	Apr. 09, 2024
Issued By	:	Tianjin Dongdian Testing Service Co., Ltd.
Address	:	Building D-1, No. 19, Weisi Road, Microelectronics Industrial Park Development Area, Tianjin, China. Tel: +86-22-58038033, E-mail: ddt@dgddt.com, http://www.ddttest.com



REPORT

TABLE OF CONTENTS

	Test report declares.....	3
1.	Summary of Test Results	5
2.	General Test Information	6
2.1.	Description of EUT.....	6
2.2.	Accessories of EUT	6
2.3.	Assistant equipment used for test.....	7
2.4.	Block diagram of EUT configuration for test	7
2.5.	Deviations of test standard	7
2.6.	Test environment conditions	8
2.7.	Test laboratory.....	8
2.8.	Measurement uncertainty	9
3.	Equipment Used During Test.....	10
4.	20 dB Bandwidth and 99% Bandwidth.....	11
4.1.	Block diagram of test setup	11
4.2.	Limits	11
4.3.	Test procedure.....	11
4.4.	Test result.....	12
5.	Radiated Emission.....	19
5.1.	Block diagram of test setup	19
5.2.	Limit.....	20
5.3.	Test Procedure	22
5.4.	Test result.....	23
6.	Band Edge Compliance	53
6.1.	Block diagram of test setup	53
6.2.	Limit.....	53
6.3.	Test Procedure	53
6.4.	Test result.....	53
7.	Power Line Conducted Emission.....	66
7.1.	Block diagram of test setup	66
7.2.	Power line conducted emission limits	66
7.3.	Test procedure.....	66
7.4.	Test result.....	67
8.	Antenna Requirements.....	69
8.1.	Limit.....	69
8.2.	Result	69
9.	Test Setup Photograph.....	70
10.	Photos of the EUT	70

Test Report Declare

Applicant	:	Omni Power Technology, Inc.
Address	:	5055 Wilshire Blvd. Ste 835 Los Angeles, CA 90036 US USA
Equipment under Test	:	PORTABLE POWER BANK
Model No.	:	Omni 80C+, Power 80C+
Trade Mark	:	N/A
Manufacturer	:	Omni Power Technology, Inc.
Address	:	No.3 JinPing Street, Ya An Road, Nankai District, Tianjin, 300190 China

Test Standard Used:

FCC Rules and Regulations Part 15 Subpart C, RSS-210 Issue 11 June 25, 2024, RSS-Gen Issue 5, Apr. 2018.

Test Procedure Used:

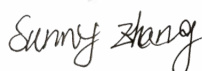
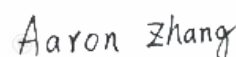
ANSI C63.10:2020.

We Declare:

The equipment described above is tested by Tianjin Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Tianjin Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above standards.

Report No.:	DDT-B24121712-2E01		
Date of Receipt:	Mar. 13, 2024	Date of Test:	Mar. 13, 2024 ~ Apr. 09, 2024

Prepared By:**Sunny Zhang/Engineer****Approved By:****Aaron Zhang/Manager**

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Tianjin Dongdian Testing Service Co., Ltd.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Apr. 09, 2024	

1. Summary of Test Results

Description of Test Item	Standard	Verdict
20dB Bandwidth and 99% Bandwidth	FCC 15.215 RSS-210 RSS-GEN	Pass
Radiated Spurious Emissions	FCC 15.249 FCC 15.209 FCC 15.205 RSS-210 RSS-GEN	Pass
Radiated Band Edge Compliance	FCC 15.249 FCC 15.209 FCC 15.205 RSS-210 RSS-GEN	Pass
Power Line Conducted Emission	FCC 15.207 RSS-GEN	Pass
Antenna Requirement	FCC 15.203 RSS-GEN	Pass
N/A is an abbreviation for Not Applicable.		

2. General Test Information

2.1. Description of EUT

EUT* Name	: PORTABLE POWER BANK
Test Model Number	: Power 80C+
EUT Function Description	: Please reference user manual of this device
Power Supply	: DC 3.3V by Polymer Li-ion built-in battery
Radio Specification	: Bluetooth (LE)
Operation Frequency	: 2402 MHz - 2480 MHz
Modulation	: GFSK
Data Rate	: 1 Mbps, 2 Mbps
Antenna Type	: PCB antenna, maximum PK gain: 3.37 dBi
Sample Number	: N/A

Note: EUT is the ab. of equipment under test.

These series models only the model number and appearance are different, others all keep same is declared by the manufacturer.

Channel information					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	14	2430	28	2458
1	2404	15	2432	29	2460
2	2406	16	2434	30	2462
3	2408	17	2436	31	2464
4	2410	18	2438	32	2466
5	2412	19	2440	33	2468
6	2414	20	2442	34	2470
7	2416	21	2444	35	2472
8	2418	22	2446	36	2474
9	2420	23	2448	37	2476
10	2422	24	2450	38	2478
11	2424	25	2452	39	2480
12	2426	26	2454		
13	2428	27	2456		

2.2. Accessories of EUT

Description of Accessories	Manufacturer	Model number	Description	Remark
N/A	N/A	N/A	N/A	N/A

2.3. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	SN
Notebook	Lenovo Beijing Co. Ltd.	ThinkPad E450c	N/A	TP00067A
AC/DC adapter	Ugreen Group Limited	CD-289	Input:100-240V~50-60Hz, Output:9V/3A,5V/3A,12V/3A,15V/3A,20V/5A,28V/5A	90324

2.4. Block diagram of EUT configuration for test

EUT

Test software: EspRFTTestTool_v3.6_Manual.EXE

The test software was used to control EUT work in Continuous Tx mode, and select test channel, wireless mode as below table.

Tested mode, channel, information			
Mode	Setting Tx Power	Channel	Frequency (MHz)
GFSK	15	CH0	2402
	15	CH19	2440
	15	CH39	2480

2.5. Deviations of test standard

No deviation.

2.6. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	21-25 °C
Humidity range:	25-75%
Pressure range:	86-106 kPa

2.7. Test laboratory

Tianjin Dongdian Testing Service Co., Ltd.

Address: Building D-1, No. 19, Weisi Road, Microelectronics Industrial Park Development Area, Tianjin, China.

Tel: +86-22-58038033, <http://www.ddttest.com>, Email: ddt@dgddt.com

NVLAP (National Voluntary Laboratory Accreditation Program) CODE: 500036-0

CNAS (China National Accreditation Service for Conformity Assessment) CODE: L13402

FCC Designation Number: CN5004; FCC Test Firm Registration Number: 368676

ISED (Innovation, Science and Economic Development Canada) Company Number: 27768

Conformity Assessment Body Identifier: CN0125

VCCI Facility Registration Number: C-20089, T-20093, R-20125, G-20122

2.8. Measurement uncertainty

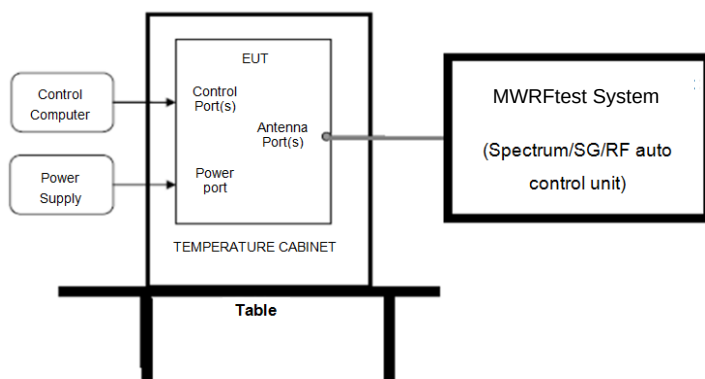
Test Item	Uncertainty
Bandwidth	0.14%
Peak Output Power (Conducted) (Spectrum Analyzer)	0.12 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$);
	0.32 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Peak Output Power (Conducted) (Power Sensor)	0.51 dB
Power Spectral Density	0.12 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$);
	0.32 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Frequencies Stability	6.7×10^{-8} (Antenna couple method)
	3.4×10^{-8} (Conducted method)
Conducted Spurious Emissions	0.12 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$);
	0.32 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
	0.52 dB ($8 \text{ GHz} \leq f < 22 \text{ GHz}$)
Uncertainty for Radio Frequency (RBW < 20 kHz)	3×10^{-7}
Temperature	$\pm 2^{\circ}\text{C}$
Humidity	$\pm 1\%$
Uncertainty for Radiation Emission Test (30 MHz - 1 GHz)	2.72 dB (Antenna Polarize: V)
	2.72 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission Test (1 GHz - 40 GHz)	2.74 dB (1 - 6 GHz)
	2.72 dB (6 GHz - 18 GHz)
	3.54 dB (18 GHz - 26 GHz)
	4.30 dB (26 GHz - 40 GHz)
Uncertainty for Power Line Conduction Emission Test	3.40 dB (150 kHz - 30 MHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3. Equipment Used During Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
RF Connected Test (MWRFTest system)					
EXG Analog Signal Generator	Keysight	N5173B	MY53270968	2025/02/20	1 Year
MXG Vector Signal Generator	Keysight	N5182A	MY50143288	2025/02/20	1 Year
PXA Signal Analyzer	Keysight	N9030B	MY56320639	2025/02/20	1 Year
PXA Signal Analyzer	Keysight	N9010A	MY53281492	2025/02/20	1 Year
Wideband Radio Communication Tester	R&S	CMW500	158800	2025/02/20	1 Year
Power Sensor	KEYSIGHT	U2021XA	MY59150007	2025/02/20	1 Year
DC Power Supply	inSTEK	PSP-2010	EN122317	2025/02/03	1 Year
Test Software	MWRFTest	MTS8310	V03	N/A	N/A
Radiated Emission -10m EMI Chamber					
Broadband Horn Antenna	TESEQ	BHA 9118	31754	2023/10/11	2 Year
Broad Band Horn Antenna	Com-Power	AHA-840	10100024	2023/10/16	2 Year
Active Loop Antenna	R&S	HFH2-Z2	100269	2024/08/25	2 Year
Amplifier	CMO-MW	DPA8 1000 1800	09211739	2025/02/17	1 Year
EMI Test Receiver	R&S	ESCI	101024	2025/02/17	1 Year
EMI Test Receiver	R&S	ESCI	101030	2025/02/17	1 Year
EMI Test Receiver	R&S	ESU26	100244	2025/02/17	1 Year
EXA Signal Analyzer	Keysight	N9010A	MY53281492	2025/02/20	1 Year
Bilog Antenna	TESEQ	CBL6112D	29068	2024/10/10	2 Year
Bilog Antenna	TESEQ	CBL6112D	29069	2024/10/10	2 Year
Amplifier	Sonoma	310N	300913	2025/02/17	1 Year
Amplifier	Sonoma	310N	334532	2025/02/17	1 Year
Ant Mast	Innco	MA4000	N/A	N/A	N/A
Ant Mast	Innco	MA4000	N/A	N/A	N/A
Mast Controller	Innco	CO2000	N/A	N/A	N/A
Mast Controller	Innco	CO2000	N/A	N/A	N/A
RF Selector 4CH	TOYO	NS4904N	Selector1	N/A	N/A
RF Selector 4CH	TOYO	NS4904N	Selector2	N/A	N/A
Test software	TOYO	EP5/RSE	Ver 1.9.1	N/A	N/A
Test software	Audix	E3	V 6.11111b	N/A	N/A
Power Line Conducted Emissions Test					
Test Receiver	R&S	ESCI	101375	2025/02/17	1 Year
LISN	R&S	ENV216	101122	2025/02/17	1 Year
Test software	TOYO	EP5/CE	V 5.4.40	N/A	N/A

4. 20 dB Bandwidth and 99% Bandwidth

4.1. Block diagram of test setup



4.2. Limits

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.

4.3. Test procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

(2) 99% Bandwidth set the spectrum analyzer as follows:

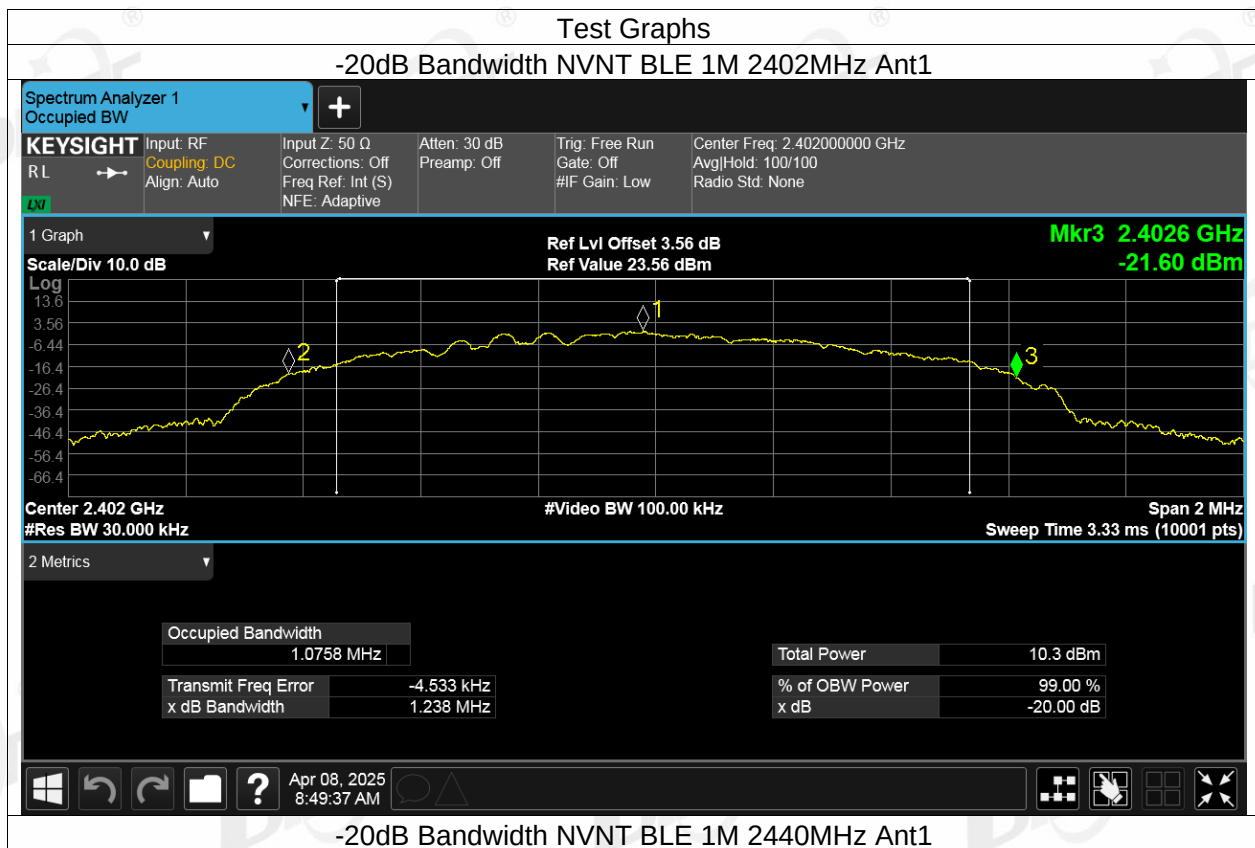
RBW:	30 kHz
VBW:	100 kHz
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold

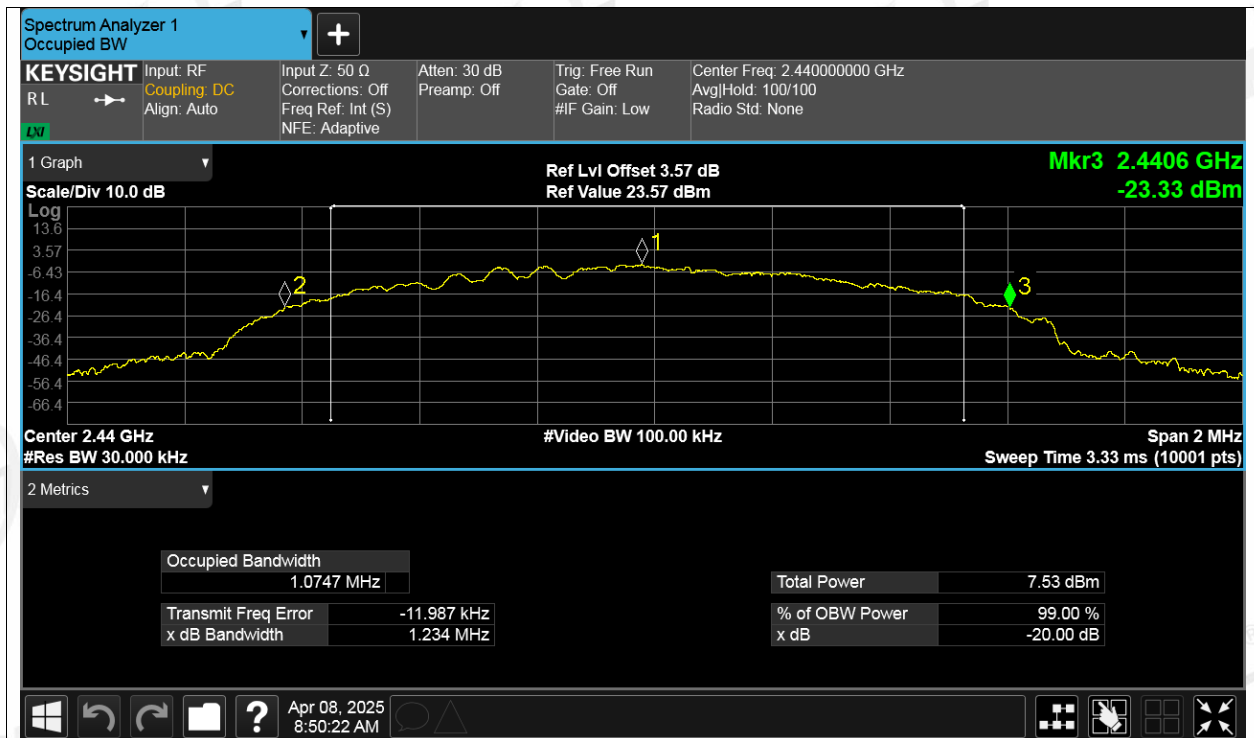
(3) Allow the trace to stabilize, measure the 20 dB and 99% bandwidth of signal.

4.4. Test result

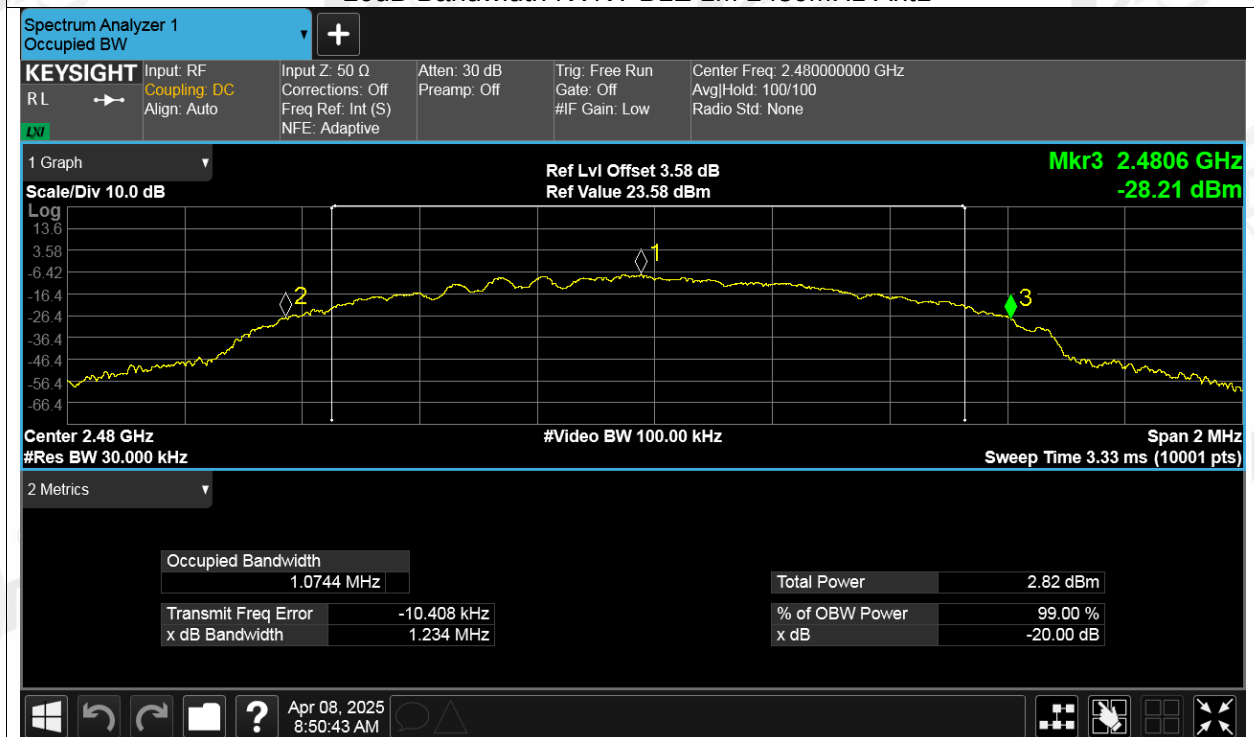
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	99% Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	1.238	1.077	Pass
NVNT	BLE 1M	2440	Ant1	1.234	1.077	Pass
NVNT	BLE 1M	2480	Ant1	1.234	1.077	Pass
NVNT	BLE 2M	2402	Ant1	2.446	2.112	Pass
NVNT	BLE 2M	2440	Ant1	2.430	2.113	Pass
NVNT	BLE 2M	2480	Ant1	2.447	2.112	Pass

-20dB Bandwidth

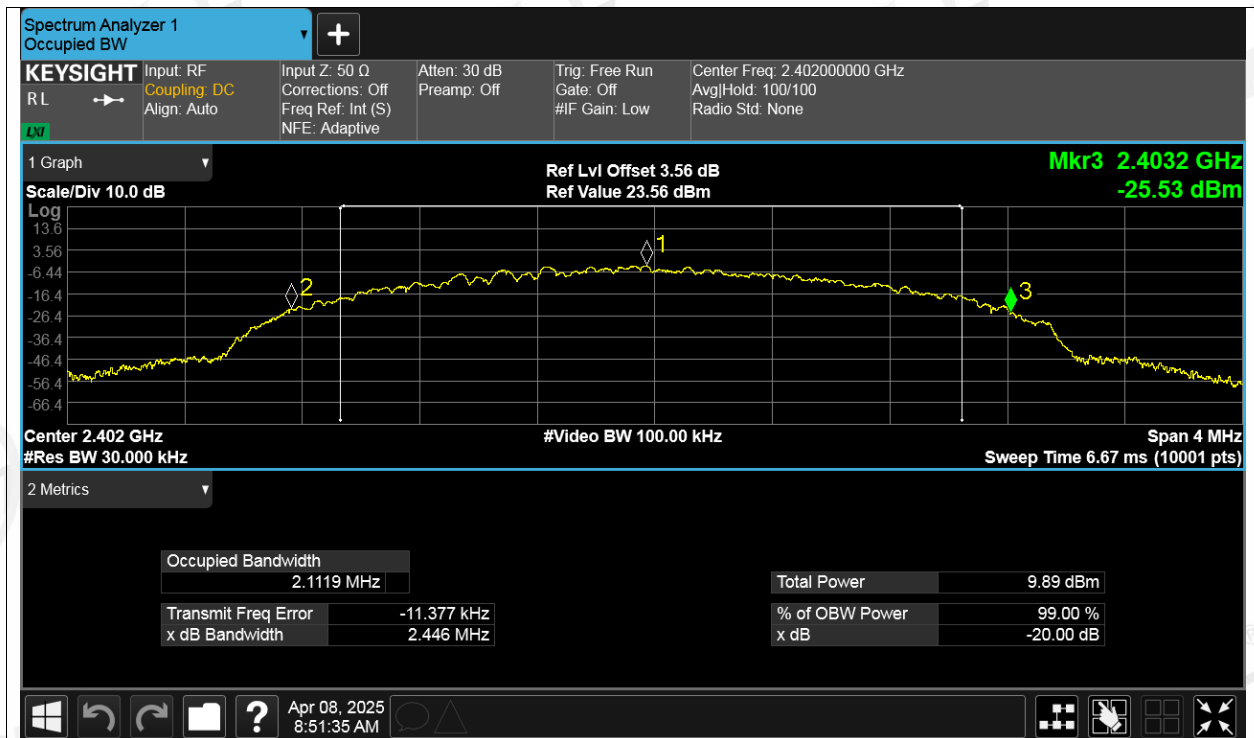




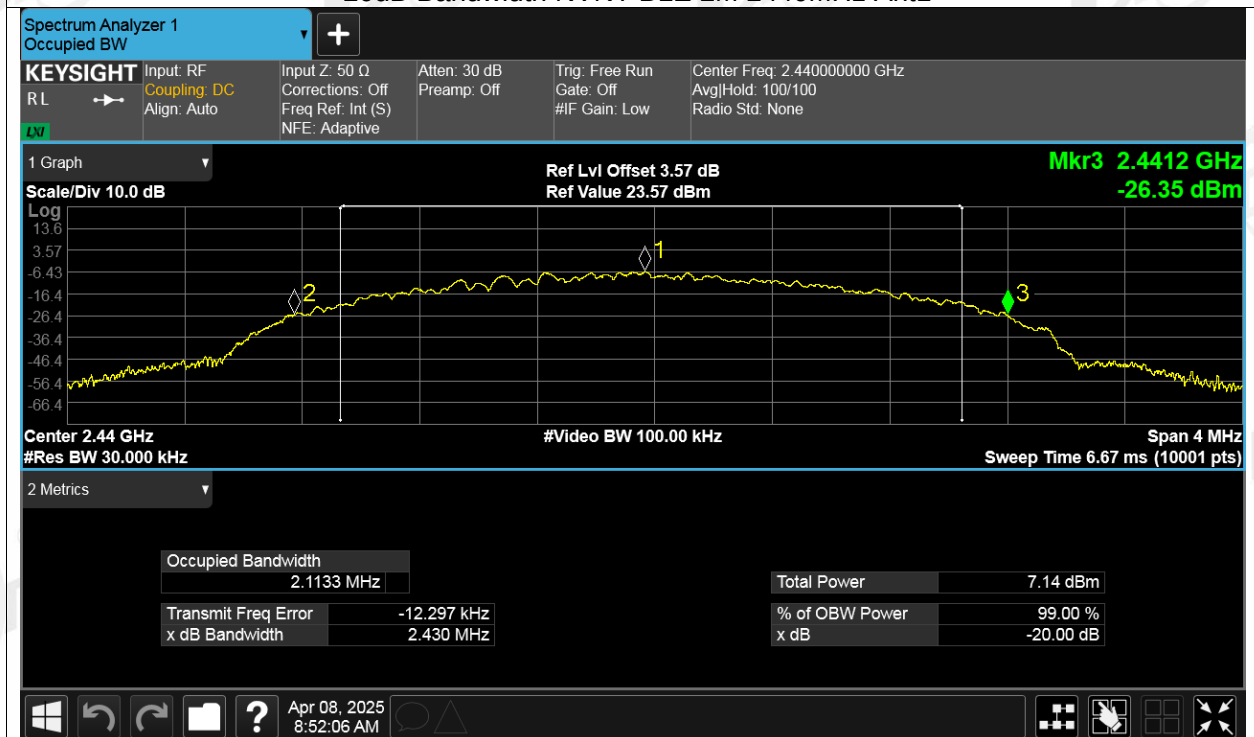
-20dB Bandwidth NVNT BLE 1M 2480MHz Ant1



-20dB Bandwidth NVNT BLE 2M 2402MHz Ant1



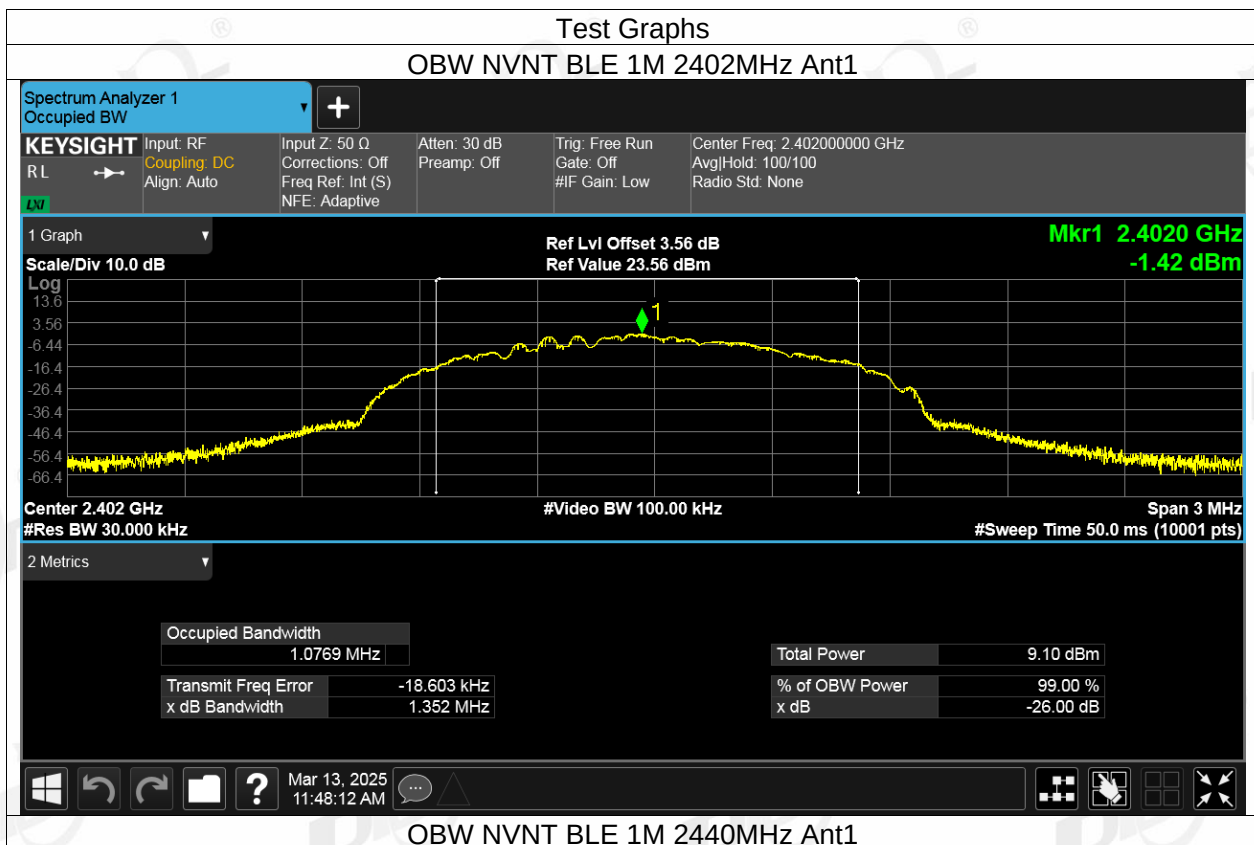
-20dB Bandwidth NVNT BLE 2M 2440MHz Ant1

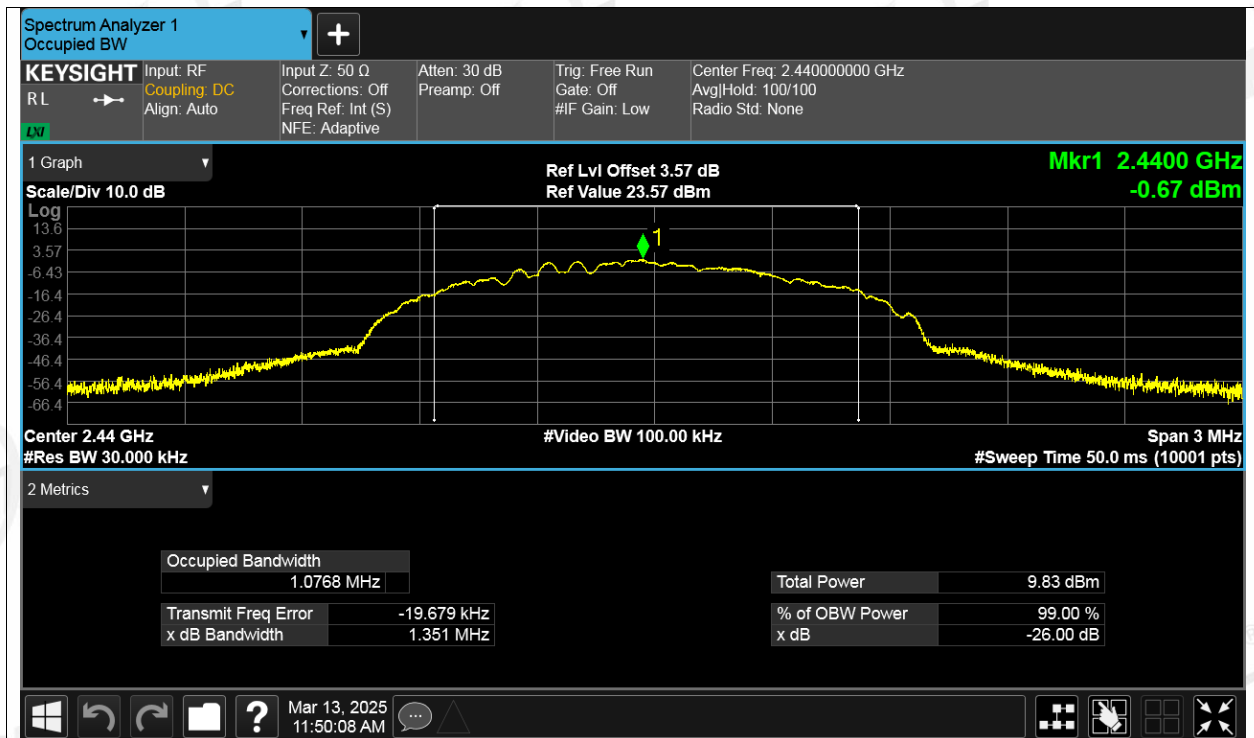


-20dB Bandwidth NVNT BLE 2M 2480MHz Ant1



99% Bandwidth

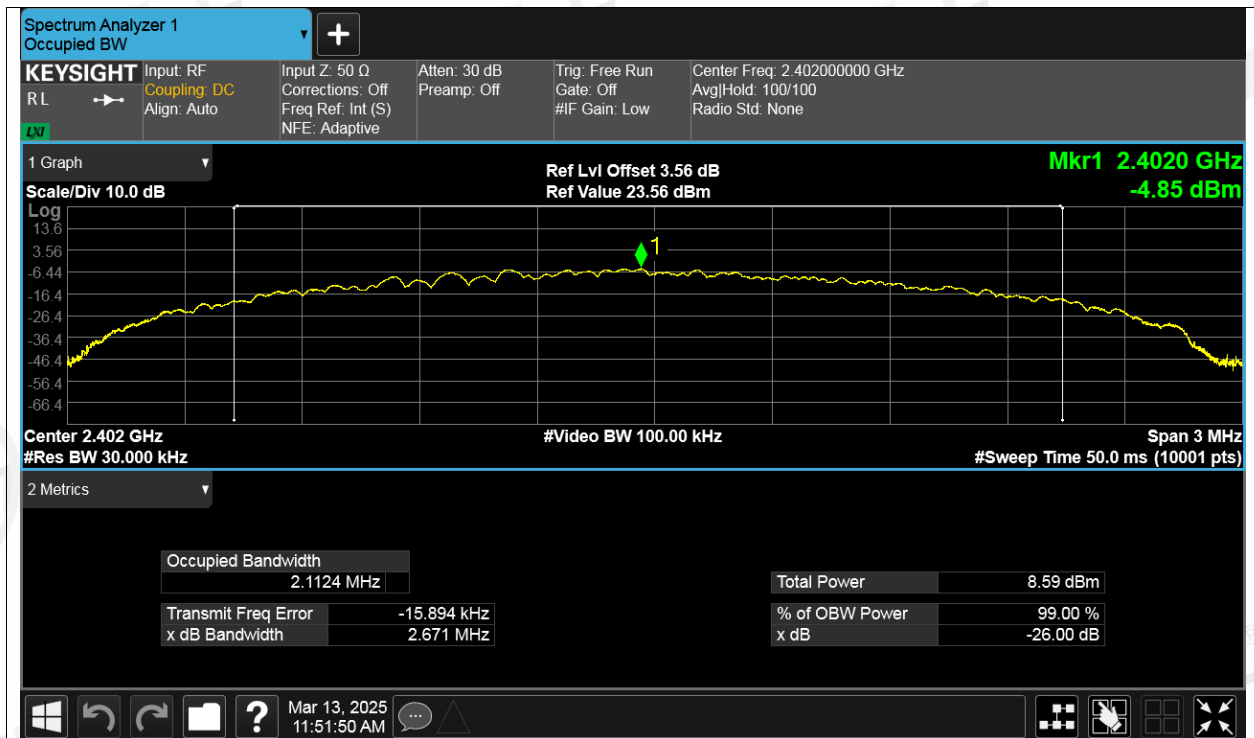




OBW NVNT BLE 1M 2480MHz Ant1



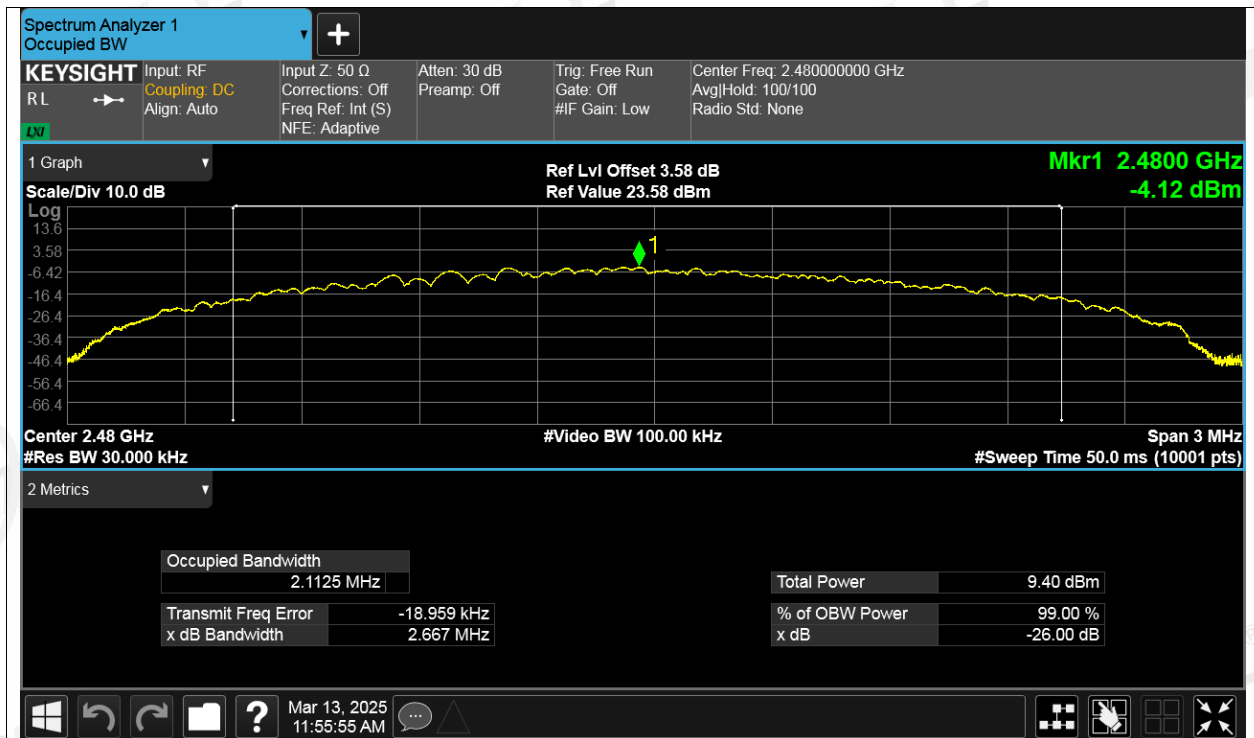
OBW NVNT BLE 2M 2402MHz Ant1



OBW NVNT BLE 2M 2440MHz Ant1



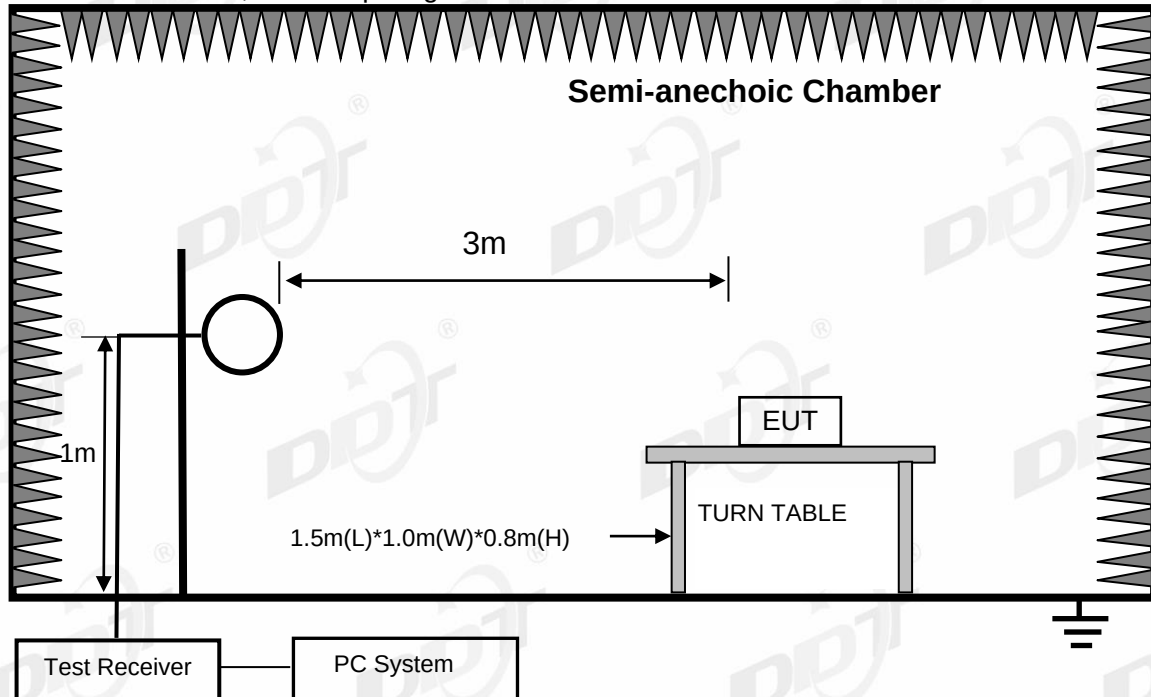
OBW NVNT BLE 2M 2480MHz Ant1



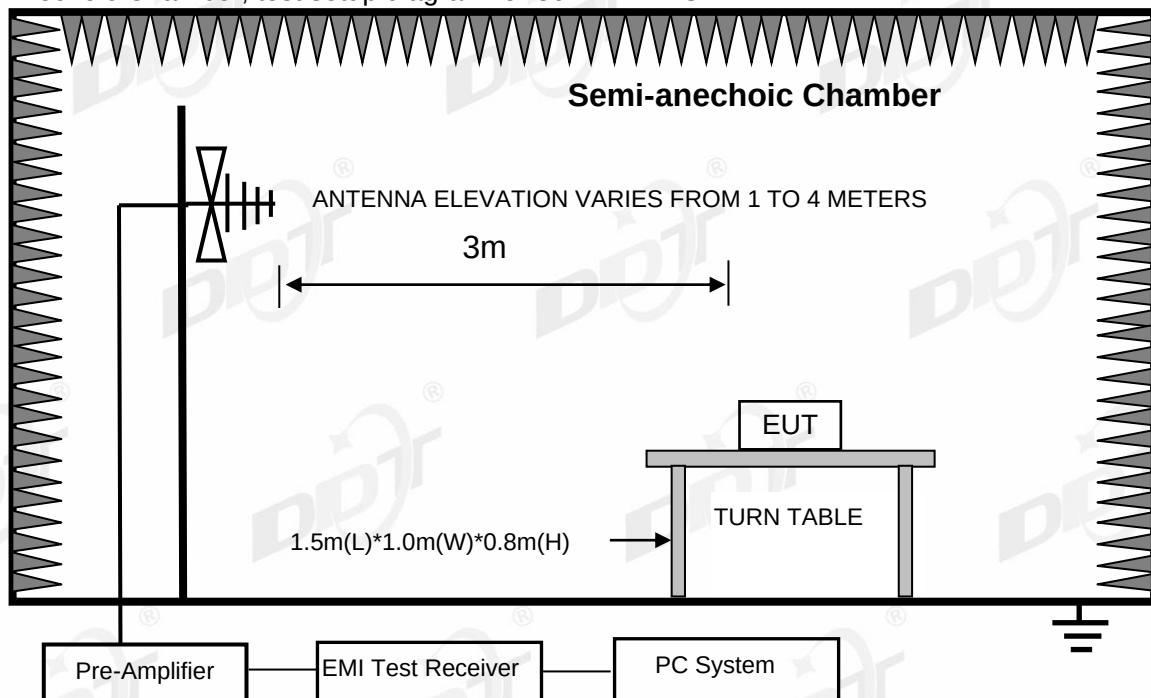
5. Radiated Emission

5.1. Block diagram of test setup

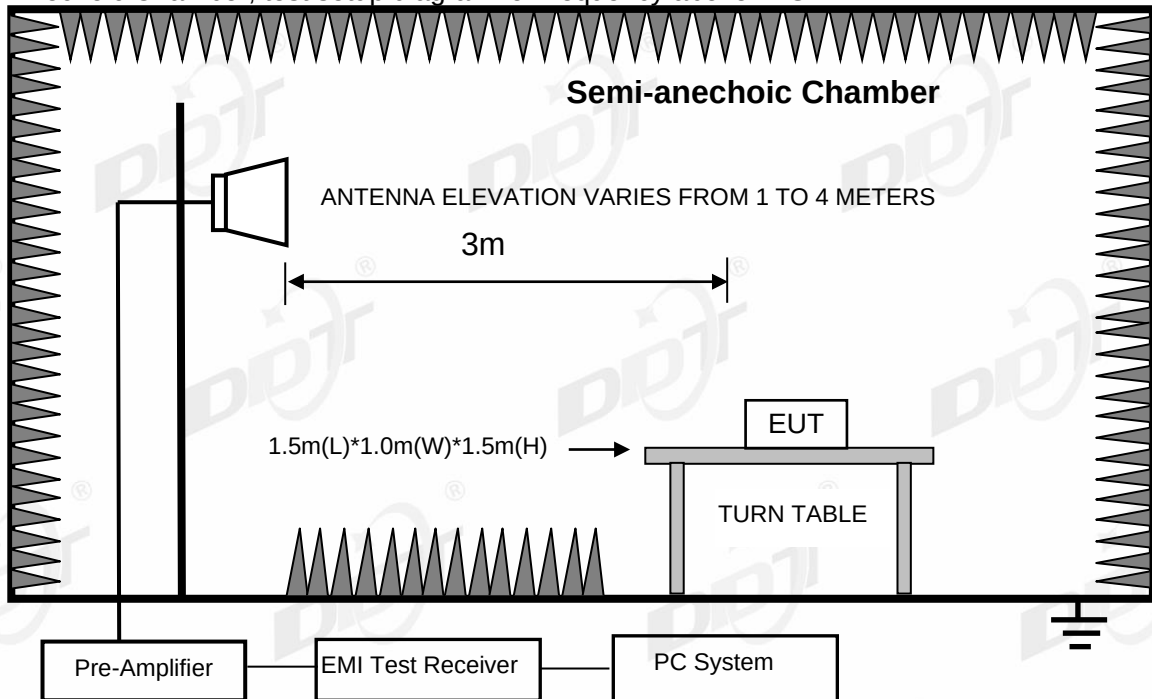
Anechoic Chamber, test setup diagram for 9 kHz - 30 MHz:



Anechoic Chamber, test setup diagram for 30 MHz - 1 GHz:



Anechoic Chamber, test setup diagram for frequency above 1 GHz:



Note: For harmonic emissions test an appropriate high pass filter was inserted in the input port of AMP.

5.2. Limit

(1) FCC 15.205 Restricted frequency band

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
4.1772&4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.2072&4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	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	322-335.4	3600-4400	(²)
13.36-13.41			

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

²Above 38.6

(2) RSS-GEN Restricted frequency band*

MHz	MHz	MHz	GHz
0.090-0.110	12.57675-12.57725	399.9-410	7.25-7.75
0.495-0.505	13.36-13.41	608-614	8.025-8.5
2.1735-2.1905	16.42-16.423	960-1427	9.0-9.2
3.020-3.026	16.69475-16.69525	1435-1626.5	9.3-9.5
4.125-4.128	16.80425-16.80475	1645.5-1646.5	10.6-12.7
4.17725-4.17775	25.5-25.67	1660-1710	13.25-13.4
4.20725-4.20775	37.5-38.25	1718.8-1722.2	14.47-14.5
5.677-5.683	73-74.6	2200-2300	15.35-16.2
6.215-6.218	74.8-75.2	2310-2390	17.7-21.4
6.26775-6.26825	108-138	2483.5-2500	22.01-23.12
6.31175-6.31225	149.9-150.05	2655-2900	23.6-24.0
8.291-8.294	156.52475-156.52525	3260-3267	31.2-31.8
8.362-8.366	156.7-156.9	3332-3339	36.43-36.5
8.37625-8.38675	162.0125-167.17	3345.8-3358	Above 38.6
8.41425-8.41475	167.72-173.2	3500-4400	
12.29-12.293	240-285	4.5-5.15	
12.51975-12.52025	322-335.4	5.35-5.46	

* Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

(3) FCC 15.209 & RSS-GEN Limit.

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
0.009 ~ 0.490	300	2400/F(kHz)	67.6-20log(F)
0.490 ~ 1.705	30	24000/F(kHz)	87.6-20log(F)
1.705 ~ 30.0	30	30	29.54
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	
Field Strength of Fundamental emission for 2.4 GHz - 2.4835 GHz	3	94.0 dB(μV)/m (Average) 114.0 dB(μV)/m (Peak)	
Field Strength of Harmonics	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

Note: (1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9 - 90 kHz, 110 - 490 kHz and above 1000 MHz, radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30 MHz, measurement may be performed at a distance closer than

that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$$\text{Limit}_{3\text{m}}(\text{dBuV/m}) = \text{Limit}_{30\text{m}}(\text{dBuV/m}) + 40\text{Log}(30\text{m}/3\text{m})$$

(3) Limit for this EUT

All the emissions appearing within 15.205 & RSS-GEN restricted frequency bands shall not exceed the limits shown in 15.209 & RSS-GEN, all the other emissions shall be at least 20dB below the fundamental emissions or comply with 15.209 & RSS-GEN limits.

5.3. Test Procedure

- (1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber for below 1G and 150 cm above the ground plane inside a fully-anechoic chamber for above 1G.
- (2) Test antenna was located on an adjustable mast, the distance from test antenna to EUT and the antenna used as below table.

Test frequency range	Test antenna used	Test antenna distance
9 kHz - 30 MHz	Active Loop antenna	3 m
30 MHz - 1 GHz	Trilog Broadband Antenna	3 m
1 GHz - 18 GHz	Double Ridged Horn Antenna (1 GHz - 18 GHz)	3 m
18 GHz - 40 GHz	Horn Antenna (18 GHz - 40 GHz)	3 m

According ANSI C63.10:2020 clause 6.4.4.2 and 6.5.3, for measurements below 30 MHz, the loop antenna was positioned with its plane vertical from the EUT and rotated about its vertical axis for maximum response at each azimuth position around the EUT. And the loop antenna also is positioned with its plane horizontal at the specified distance from the EUT. The center of the loop is 1 m above the ground. Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

(3) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9 kHz to 25 GHz:

- (a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1 m to 4 m (Except loop antenna, it's fixed 1 m above ground.)
- (b) Change work frequency or channel of device if practicable.
- (c) Change modulation type of device if practicable.
- (d) Change power supply range from 85% to 115% of the rated supply voltage
- (e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement

produces highest emissions.

Spectrum frequency from 9 kHz to 25 GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 18 GHz to 25 GHz, so below final test was performed with frequency range from 9 kHz to 18 GHz.

- (4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1 m and 4 m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed according to ANSI C63.10:2020 on Radiated Emission test.
- (5) The emissions from 9 kHz to 1 GHz were measured based on CISPR QP detector except for the frequency bands 9 - 90 kHz, 110 - 490 kHz, for emissions from 9 kHz - 90 kHz, 110 kHz - 490 kHz and above 1 GHz were measured based on average detector, for emissions above 1 GHz, peak emissions also be measured and need comply with Peak limit.
- (6) The emissions from 9 kHz to 1 GHz, QP or average values were measured with EMI receiver with below RBW.

Frequency band	RBW
9 kHz - 150 kHz	200 Hz
150 kHz - 30 MHz	9 kHz
30 MHz - 1 GHz	120 kHz

- (7) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1 MHz, VBW is set at 3 MHz for Peak measure; According ANSI C63.10:2020 clause 4.1.5.2.3 procedure for average measure.
- (8) X axis, Y axis, Z axis are tested, and worse setup X axis is reported.

5.4. Test result

Pass. (See below detailed test result)

All the emissions except fundamental emission from 9 kHz to 25 GHz were comply with 15.209 limits.

Note1: For emissions below 1 GHz and above 18 GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1 GHz, the final test was only performed with EUT working in BLE 1M 2402MHz transmission mode.

Note 2: Scan with all modes, the worst case was recorded in this report.

Radiated Emission test (9kHz-30MHz)

Radiated Emission Test Result

Test Site : DDT 10m Chamber

Test Date : 03-18-2025

Tested By : Sunny

EUT : Portable Power Bank

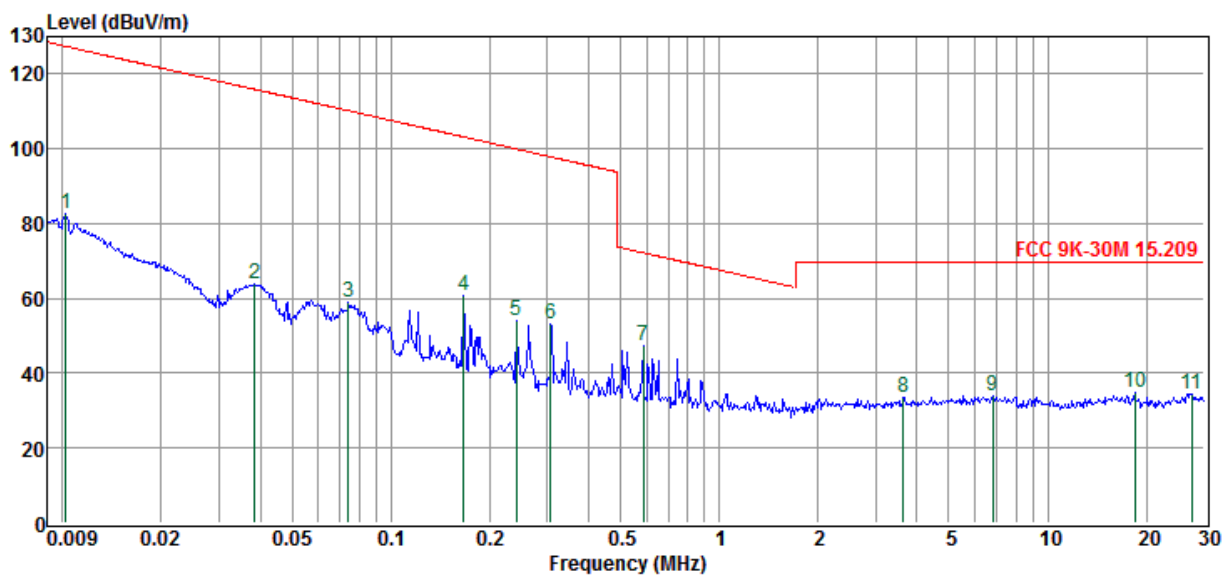
Model Number : Power 80C+

Power Supply : Battery

Test Mode : Tx Mode

Memo : BLE 1M 2402MHz

Data: 99



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector
1	0.01	62.81	19.61	0.03	82.45	127.39	-44.94	Peak
2	0.04	44.10	19.73	0.03	63.86	115.90	-52.04	Peak
3	0.07	39.15	19.70	0.03	58.88	110.20	-51.32	Peak
4	0.17	41.02	19.63	0.03	60.68	103.15	-42.47	Peak
5	0.24	34.54	19.62	0.02	54.18	99.98	-45.80	Peak
6	0.31	33.60	19.65	0.02	53.27	97.86	-44.59	Peak
7	0.59	27.37	19.77	0.02	47.16	72.22	-25.06	Peak
8	3.64	13.39	19.97	0.14	33.50	69.54	-36.04	Peak
9	6.80	13.58	20.00	0.21	33.79	69.54	-35.75	Peak
10	18.44	14.04	20.19	0.47	34.70	69.54	-34.84	Peak
11	27.44	13.52	20.35	0.53	34.40	69.54	-35.14	Peak

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: 9k-150kHz, RBW: 300Hz; 150k-30MHz, RBW: 10kHz, Sweep time: auto.

Radiated Emission test (below 1 GHz)

Radiated Emission Test Result

Test Site : DDT 10m Chamber

Test Date : 03-17-2025

Tested By : Sunny

EUT : Portable Power Bank

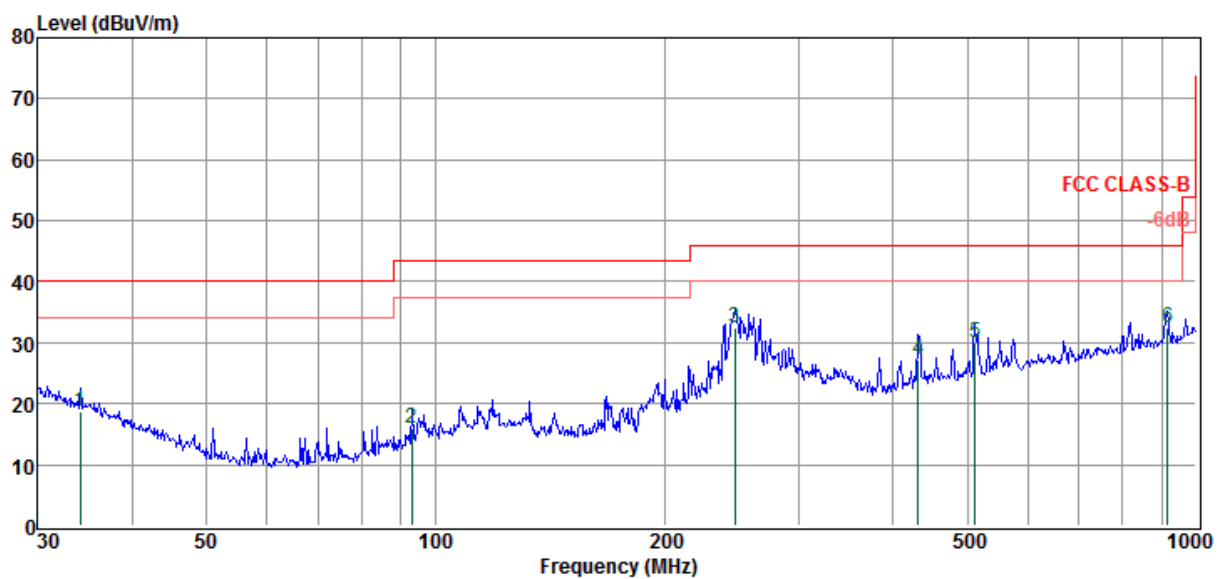
Model Number : Power 80C+

Power Supply : Battery

Test Mode : TX Mode

Memo : BLE 1M 2402MHz

Data: 98



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	34.16	25.75	22.49	-29.62	18.62	40.00	-21.38	QP	VERTICAL
2	93.11	29.29	15.42	-28.63	16.08	43.50	-27.42	QP	VERTICAL
3	247.68	41.09	17.87	-26.52	32.44	46.00	-13.56	QP	VERTICAL
4	431.03	30.03	22.30	-24.99	27.34	46.00	-18.66	QP	VERTICAL
5	511.84	30.74	23.26	-24.05	29.95	46.00	-16.05	QP	VERTICAL
6	916.07	26.65	26.32	-20.64	32.33	46.00	-13.67	QP	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

Radiated Emission Test Result

Test Site : DDT 10m Chamber

Test Date : 03-17-2025

Tested By : Sunny

EUT : Portable Power Bank

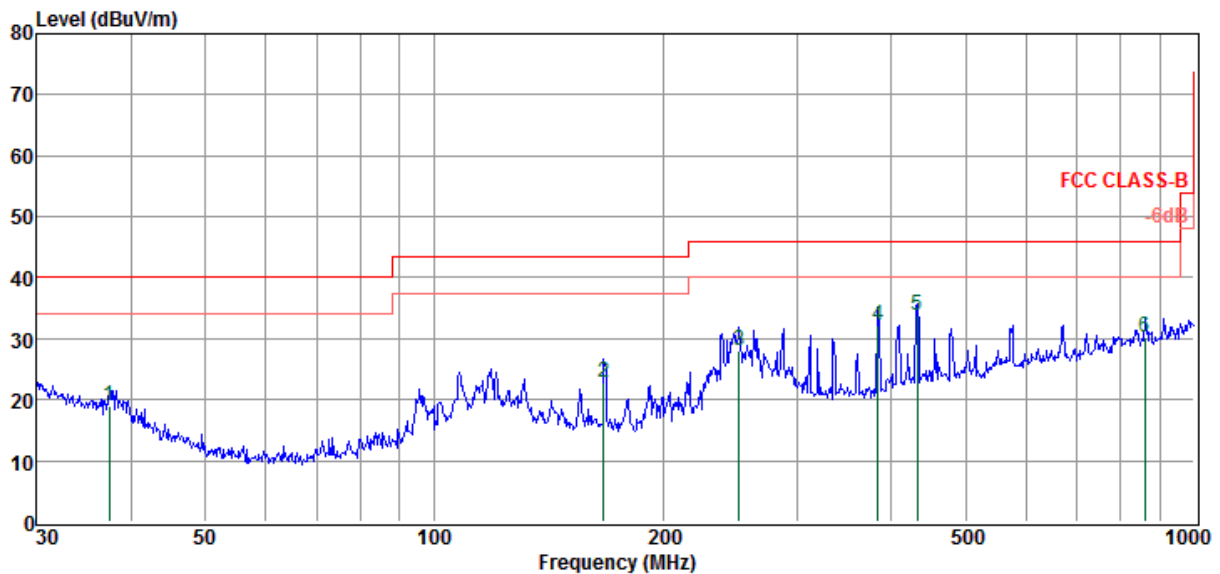
Model Number : Power 80C+

Power Supply : Battery

Test Mode : TX Mode

Memo : BLE 1M 2402MHz

Data: 99



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	37.42	27.92	20.55	-29.45	19.02	40.00	-20.98	QP	HORIZONTAL
2	167.24	34.27	15.98	-27.56	22.69	43.50	-20.81	QP	HORIZONTAL
3	252.06	36.15	18.27	-26.51	27.91	46.00	-18.09	QP	HORIZONTAL
4	383.93	36.21	21.06	-25.20	32.07	46.00	-13.93	QP	HORIZONTAL
5	432.55	36.39	22.30	-24.92	33.77	46.00	-12.23	QP	HORIZONTAL
6	860.04	25.48	26.30	-21.47	30.31	46.00	-15.69	QP	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

Radiated Emission test (1 GHz – 3GHz)

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 03-26-2025

Tested By : Sunny

EUT : Portable Power Bank

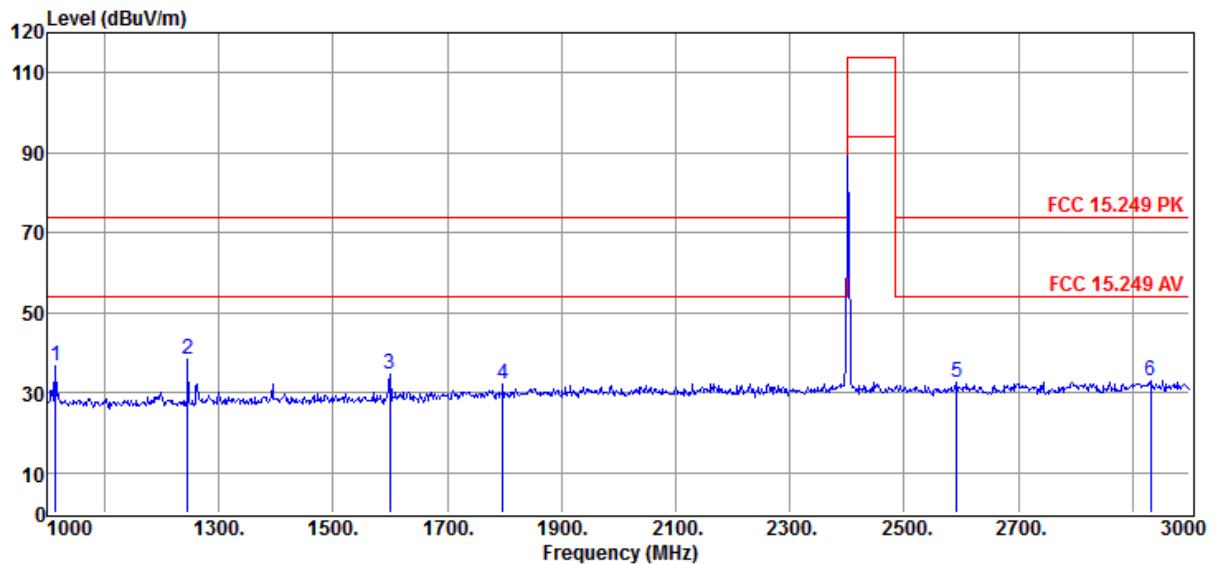
Model Number : Power 80C+

Power Supply : Battery

Test Mode : Tx mode

Memo : BLE1M 2402MHz

Data: 83



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	1014.00	53.54	24.05	43.60	2.51	36.50	74.00	-37.50	Peak	HORIZONTAL
2	1246.00	54.24	24.84	43.67	2.98	38.39	74.00	-35.61	Peak	HORIZONTAL
3	1600.00	49.01	26.22	43.78	3.09	34.54	74.00	-39.46	Peak	HORIZONTAL
4	1798.00	45.37	27.25	43.84	3.37	32.15	74.00	-41.85	Peak	HORIZONTAL
5	2592.00	43.61	28.66	43.72	3.91	32.46	74.00	-41.54	Peak	HORIZONTAL
6	2932.00	43.02	29.61	43.62	4.15	33.16	74.00	-40.84	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss – PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 03-26-2025

Tested By : Sunny

EUT : Portable Power Bank

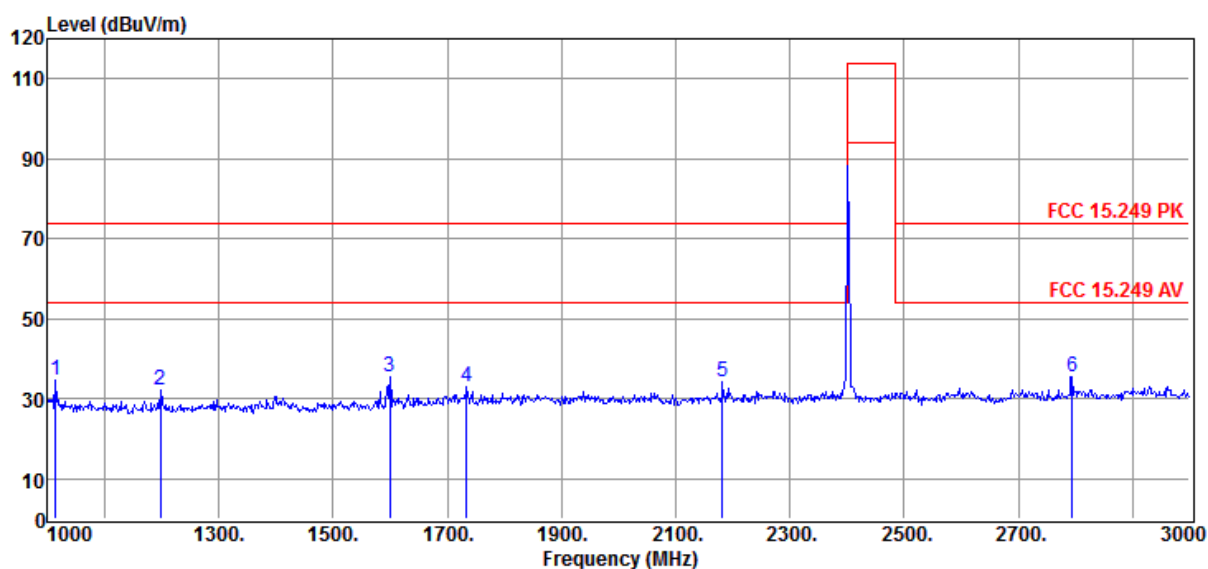
Model Number : Power 80C+

Power Supply : Battery

Test Mode : Tx mode

Memo : BLE1M 2402MHz

Data: 84



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	1014.00	51.84	24.05	43.60	2.51	34.80	74.00	-39.20	Peak	VERTICAL
2	1198.00	48.10	24.67	43.66	2.90	32.01	74.00	-41.99	Peak	VERTICAL
3	1600.00	49.75	26.22	43.78	3.09	35.28	74.00	-38.72	Peak	VERTICAL
4	1734.00	46.52	26.92	43.82	3.23	32.85	74.00	-41.15	Peak	VERTICAL
5	2182.00	46.16	28.34	43.85	3.71	34.36	74.00	-39.64	Peak	VERTICAL
6	2794.00	45.90	29.22	43.66	4.10	35.56	74.00	-38.44	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss – PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 03-26-2025

Tested By : Sunny

EUT : Portable Power Bank

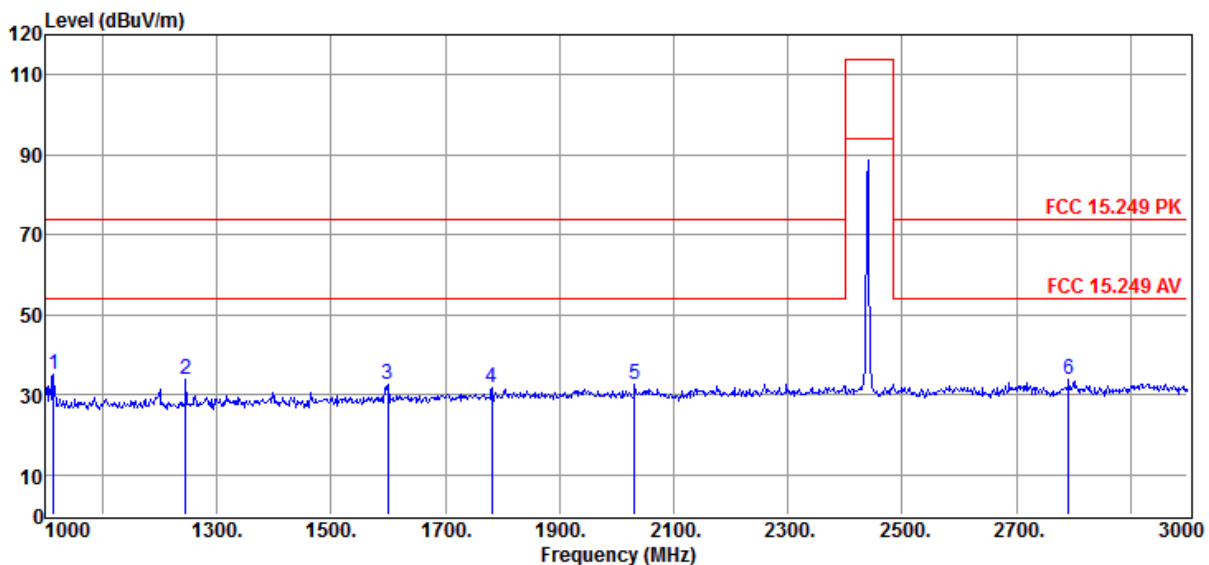
Model Number : Power 80C+

Power Supply : Battery

Test Mode : Tx mode

Memo : BLE1M 2440MHz

Data: 85



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	1014.00	52.17	24.05	43.60	2.51	35.13	74.00	-38.87	Peak	HORIZONTAL
2	1246.00	49.84	24.84	43.67	2.98	33.99	74.00	-40.01	Peak	HORIZONTAL
3	1600.00	46.86	26.22	43.78	3.09	32.39	74.00	-41.61	Peak	HORIZONTAL
4	1782.00	45.20	27.17	43.83	3.33	31.87	74.00	-42.13	Peak	HORIZONTAL
5	2032.00	44.50	28.31	43.89	3.46	32.38	74.00	-41.62	Peak	HORIZONTAL
6	2792.00	44.03	29.22	43.66	4.09	33.68	74.00	-40.32	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss – PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 03-26-2025

Tested By : Sunny

EUT : Portable Power Bank

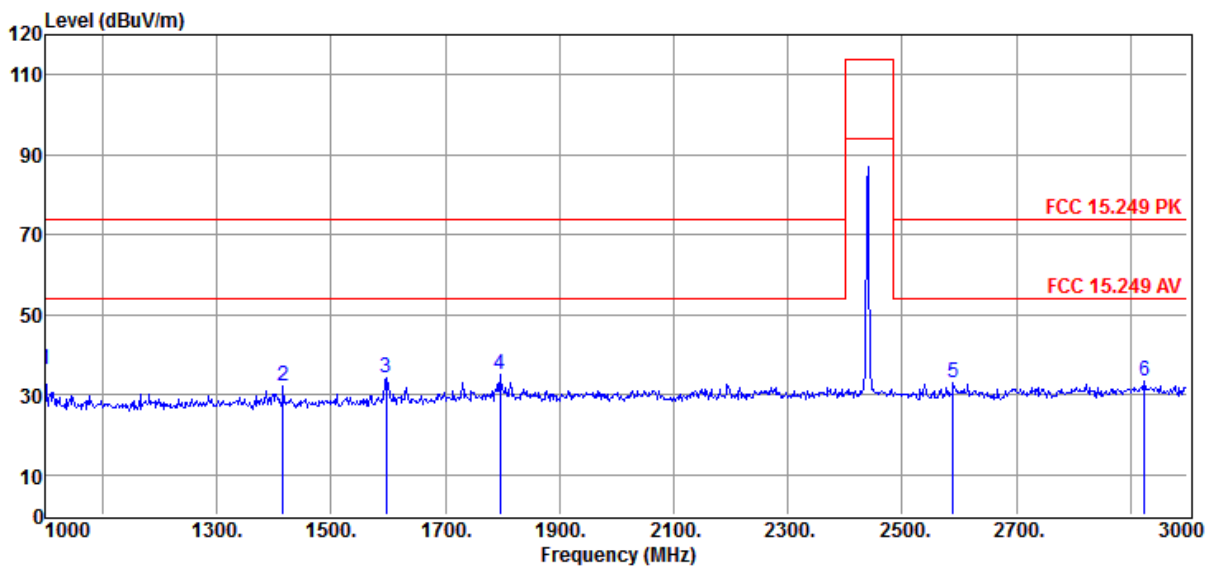
Model Number : Power 80C+

Power Supply : Battery

Test Mode : Tx mode

Memo : BLE1M 2440MHz

Data: 86



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	1000.00	53.38	24.00	43.60	2.49	36.27	74.00	-37.73	Peak	VERTICAL
2	1416.00	47.54	25.41	43.72	3.02	32.25	74.00	-41.75	Peak	VERTICAL
3	1596.00	48.55	26.20	43.78	3.09	34.06	74.00	-39.94	Peak	VERTICAL
4	1796.00	48.17	27.24	43.84	3.36	34.93	74.00	-39.07	Peak	VERTICAL
5	2590.00	44.19	28.65	43.72	3.90	33.02	74.00	-40.98	Peak	VERTICAL
6	2924.00	43.22	29.59	43.62	4.13	33.32	74.00	-40.68	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss – PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 03-26-2025

Tested By : Sunny

EUT : Portable Power Bank

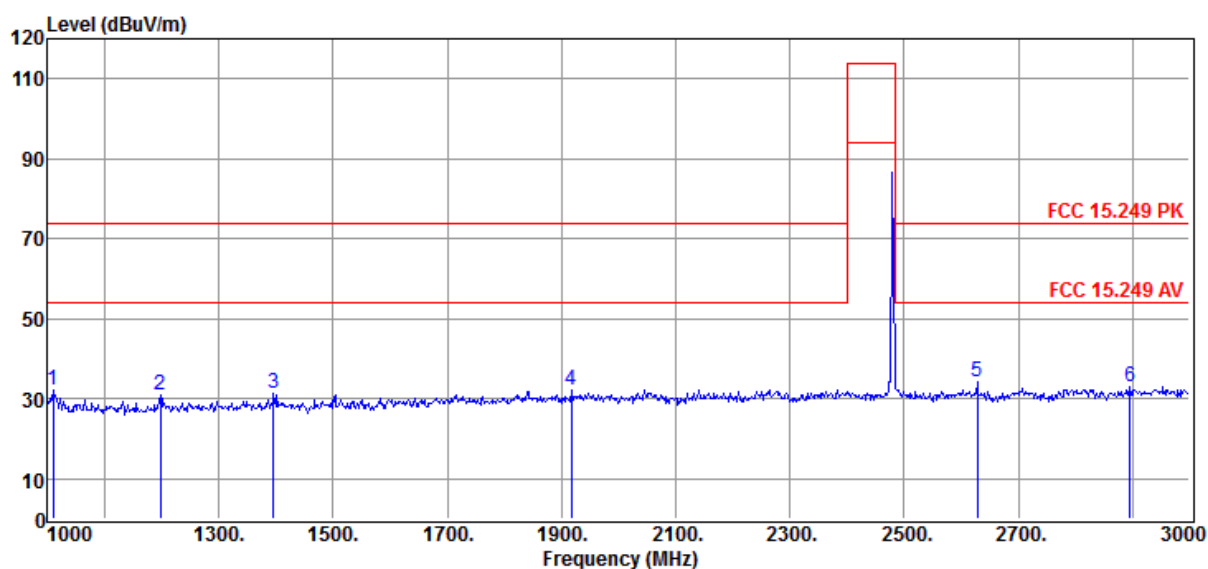
Model Number : Power 80C+

Power Supply : Battery

Test Mode : Tx mode

Memo : BLE1M 2480MHz

Data: 87



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	1010.00	49.40	24.03	43.60	2.50	32.33	74.00	-41.67	Peak	HORIZONTAL
2	1198.00	47.18	24.67	43.66	2.90	31.09	74.00	-42.91	Peak	HORIZONTAL
3	1396.00	46.57	25.35	43.72	3.02	31.22	74.00	-42.78	Peak	HORIZONTAL
4	1918.00	44.62	27.87	43.88	3.46	32.07	74.00	-41.93	Peak	HORIZONTAL
5	2628.00	45.08	28.76	43.71	3.94	34.07	74.00	-39.93	Peak	HORIZONTAL
6	2896.00	43.11	29.51	43.63	4.07	33.06	74.00	-40.94	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss – PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 03-26-2025

Tested By : Sunny

EUT : Portable Power Bank

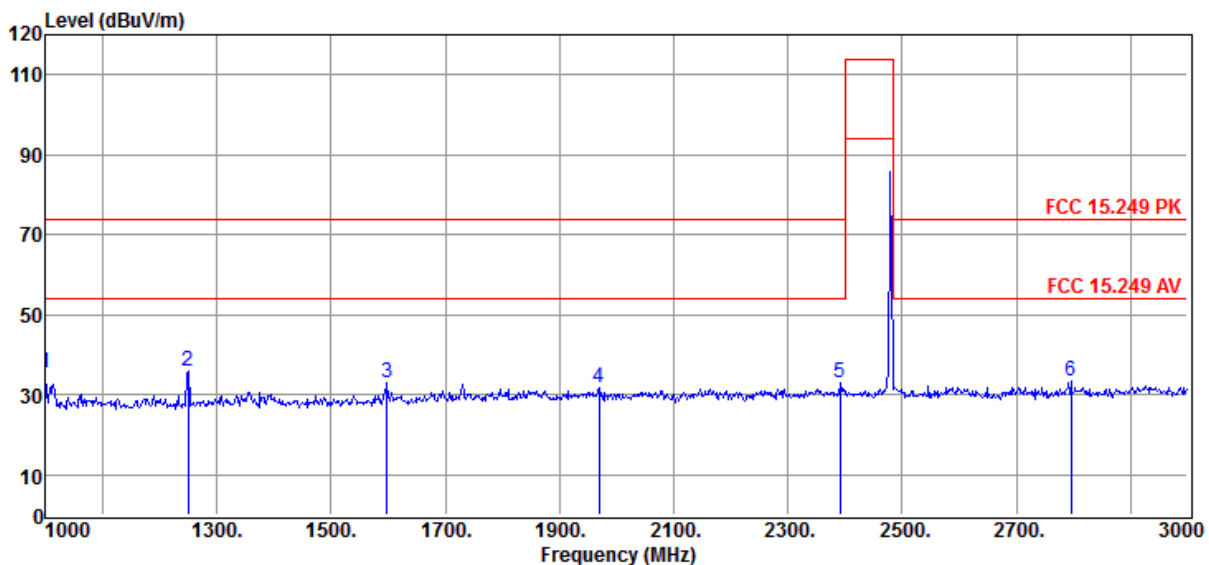
Model Number : Power 80C+

Power Supply : Battery

Test Mode : Tx mode

Memo : BLE1M 2480MHz

Data: 88



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	1000.00	52.50	24.00	43.60	2.49	35.39	74.00	-38.61	Peak	VERTICAL
2	1250.00	51.85	24.85	43.67	2.99	36.02	74.00	-37.98	Peak	VERTICAL
3	1598.00	47.44	26.21	43.78	3.09	32.96	74.00	-41.04	Peak	VERTICAL
4	1970.00	43.81	28.14	43.89	3.60	31.66	74.00	-42.34	Peak	VERTICAL
5	2392.00	44.35	28.38	43.78	3.87	32.82	74.00	-41.18	Peak	VERTICAL
6	2796.00	43.54	29.23	43.66	4.11	33.22	74.00	-40.78	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss – PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 03-26-2025

Tested By : Sunny

EUT : Portable Power Bank

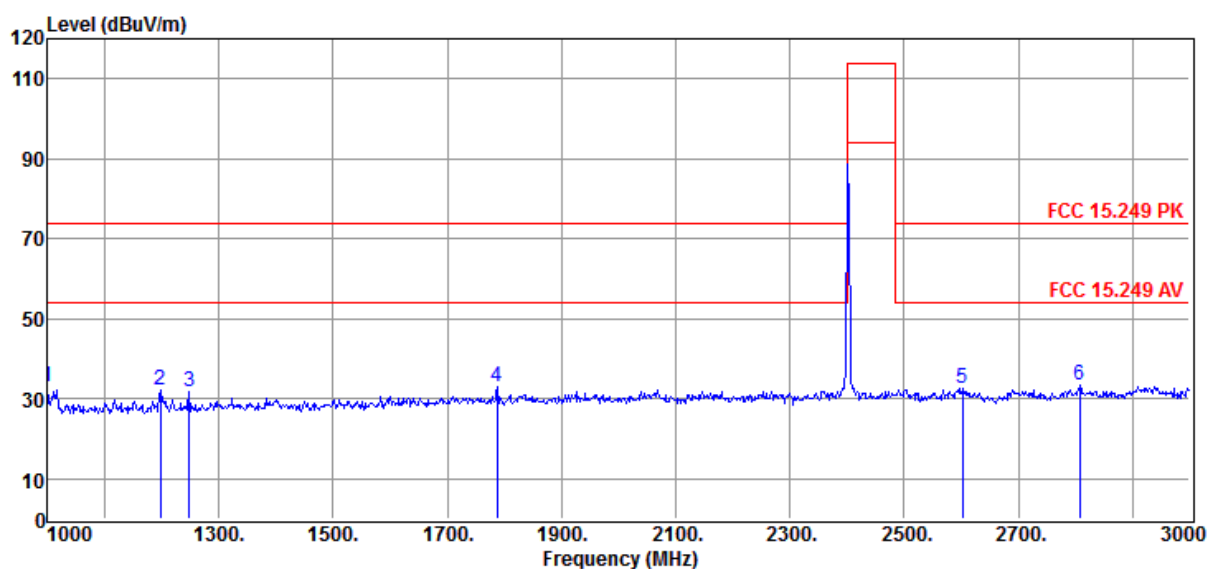
Model Number : Power 80C+

Power Supply : Battery

Test Mode : Tx mode

Memo : BLE2M 2402MHz

Data: 89



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	1000.00	50.10	24.00	43.60	2.49	32.99	74.00	-41.01	Peak	HORIZONTAL
2	1198.00	48.29	24.67	43.66	2.90	32.20	74.00	-41.80	Peak	HORIZONTAL
3	1248.00	47.78	24.84	43.67	2.99	31.94	74.00	-42.06	Peak	HORIZONTAL
4	1788.00	46.14	27.20	43.84	3.34	32.84	74.00	-41.16	Peak	HORIZONTAL
5	2602.00	43.88	28.69	43.72	3.91	32.76	74.00	-41.24	Peak	HORIZONTAL
6	2808.00	43.86	29.26	43.66	4.11	33.57	74.00	-40.43	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss – PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 03-26-2025

Tested By : Sunny

EUT : Portable Power Bank

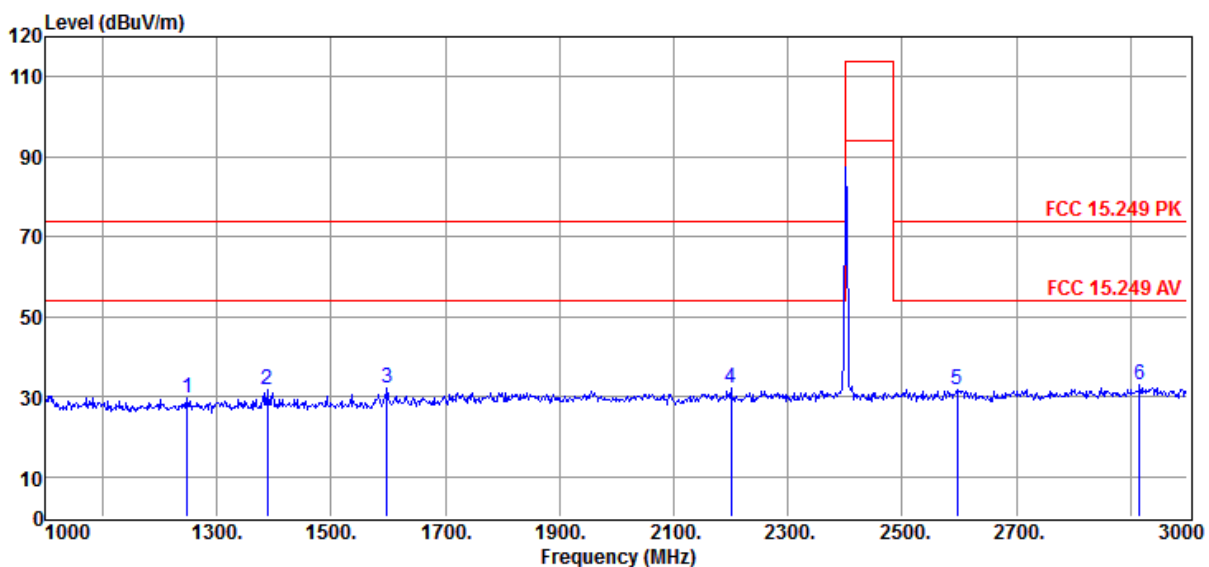
Model Number : Power 80C+

Power Supply : Battery

Test Mode : Tx mode

Memo : BLE2M 2402MHz

Data: 90



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	1248.00	45.51	24.84	43.67	2.99	29.67	74.00	-44.33	Peak	VERTICAL
2	1388.00	47.24	25.32	43.72	3.05	31.89	74.00	-42.11	Peak	VERTICAL
3	1598.00	46.67	26.21	43.78	3.09	32.19	74.00	-41.81	Peak	VERTICAL
4	2200.00	44.00	28.34	43.84	3.83	32.33	74.00	-41.67	Peak	VERTICAL
5	2596.00	42.82	28.67	43.72	3.91	31.68	74.00	-42.32	Peak	VERTICAL
6	2916.00	42.92	29.56	43.63	4.11	32.96	74.00	-41.04	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss – PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 03-26-2025

Tested By : Sunny

EUT : Portable Power Bank

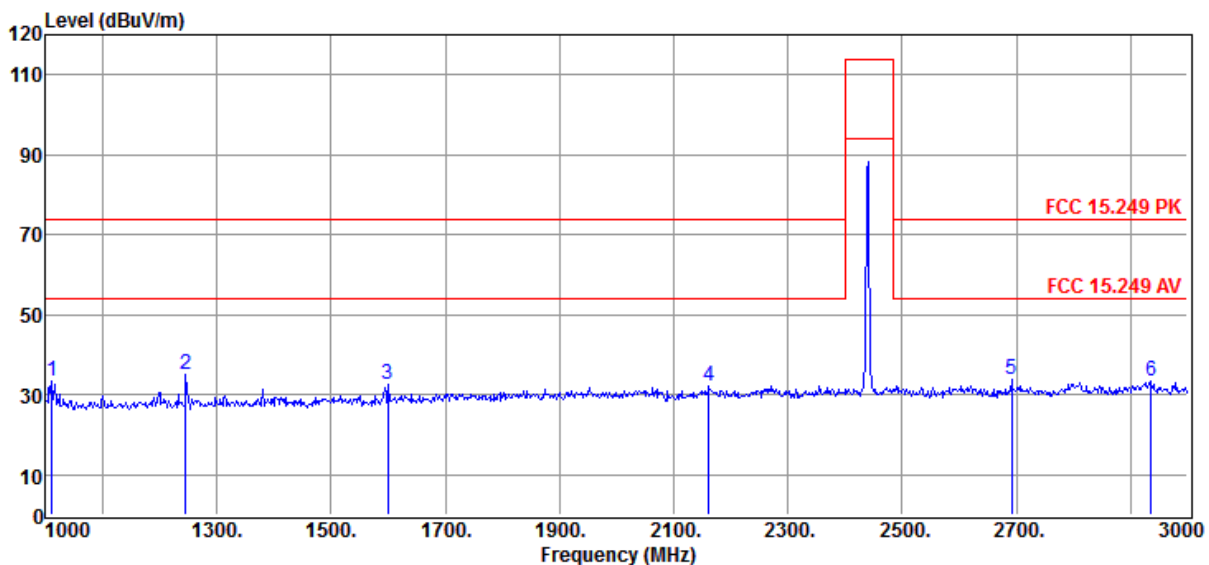
Model Number : Power 80C+

Power Supply : Battery

Test Mode : Tx mode

Memo : BLE2M 2440MHz

Data: 91



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	1012.00	50.32	24.04	43.60	2.51	33.27	74.00	-40.73	Peak	HORIZONTAL
2	1246.00	51.08	24.84	43.67	2.98	35.23	74.00	-38.77	Peak	HORIZONTAL
3	1600.00	46.96	26.22	43.78	3.09	32.49	74.00	-41.51	Peak	HORIZONTAL
4	2162.00	43.98	28.33	43.85	3.58	32.04	74.00	-41.96	Peak	HORIZONTAL
5	2692.00	44.48	28.94	43.69	3.92	33.65	74.00	-40.35	Peak	HORIZONTAL
6	2936.00	43.14	29.62	43.62	4.16	33.30	74.00	-40.70	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss – PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 03-26-2025

Tested By : Sunny

EUT : Portable Power Bank

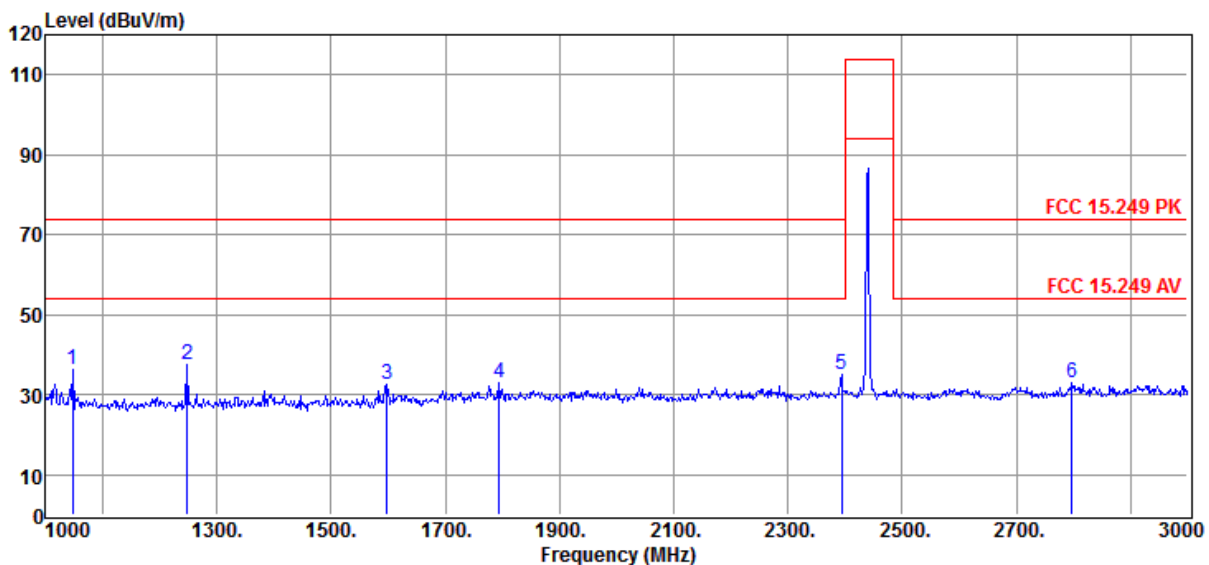
Model Number : Power 80C+

Power Supply : Battery

Test Mode : Tx mode

Memo : BLE2M 2440MHz

Data: 92



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	1048.00	53.18	24.16	43.61	2.56	36.29	74.00	-37.71	Peak	VERTICAL
2	1248.00	53.29	24.84	43.67	2.99	37.45	74.00	-36.55	Peak	VERTICAL
3	1598.00	46.95	26.21	43.78	3.09	32.47	74.00	-41.53	Peak	VERTICAL
4	1794.00	46.35	27.23	43.84	3.36	33.10	74.00	-40.90	Peak	VERTICAL
5	2394.00	46.67	28.38	43.78	3.86	35.13	74.00	-38.87	Peak	VERTICAL
6	2798.00	43.27	29.23	43.66	4.11	32.95	74.00	-41.05	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss – PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 03-26-2025

Tested By : Sunny

EUT : Portable Power Bank

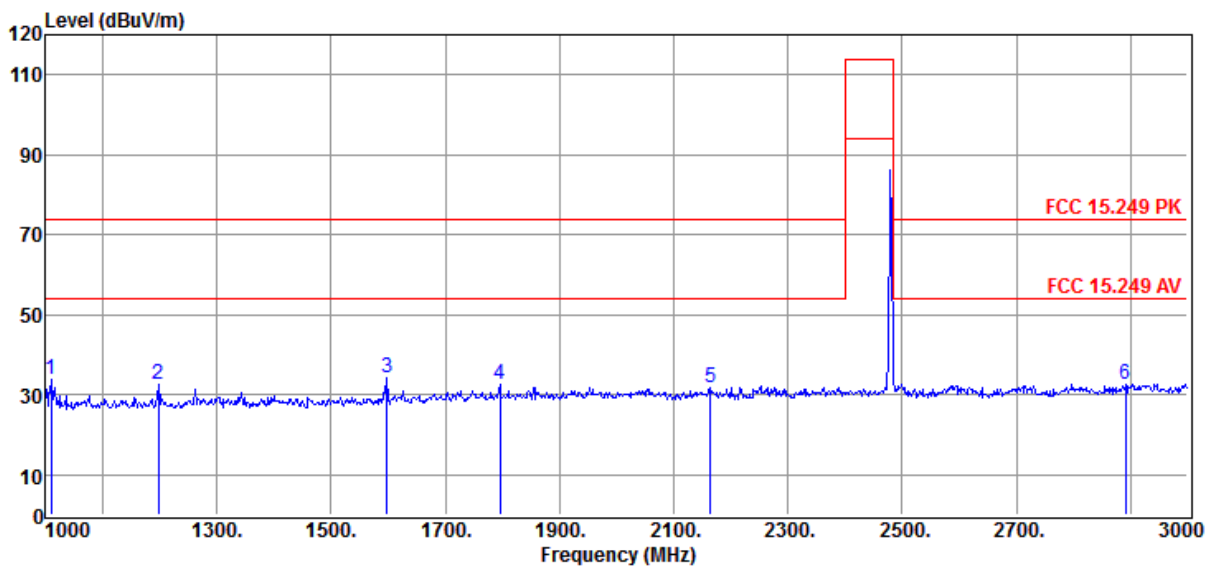
Model Number : Power 80C+

Power Supply : Battery

Test Mode : Tx mode

Memo : BLE2M 2480MHz

Data: 93



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	1010.00	50.90	24.03	43.60	2.50	33.83	74.00	-40.17	Peak	HORIZONTAL
2	1198.00	48.66	24.67	43.66	2.90	32.57	74.00	-41.43	Peak	HORIZONTAL
3	1598.00	48.71	26.21	43.78	3.09	34.23	74.00	-39.77	Peak	HORIZONTAL
4	1796.00	45.65	27.24	43.84	3.36	32.41	74.00	-41.59	Peak	HORIZONTAL
5	2164.00	43.65	28.33	43.85	3.59	31.72	74.00	-42.28	Peak	HORIZONTAL
6	2892.00	42.66	29.50	43.63	4.07	32.60	74.00	-41.40	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss – PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 03-26-2025

Tested By : Sunny

EUT : Portable Power Bank

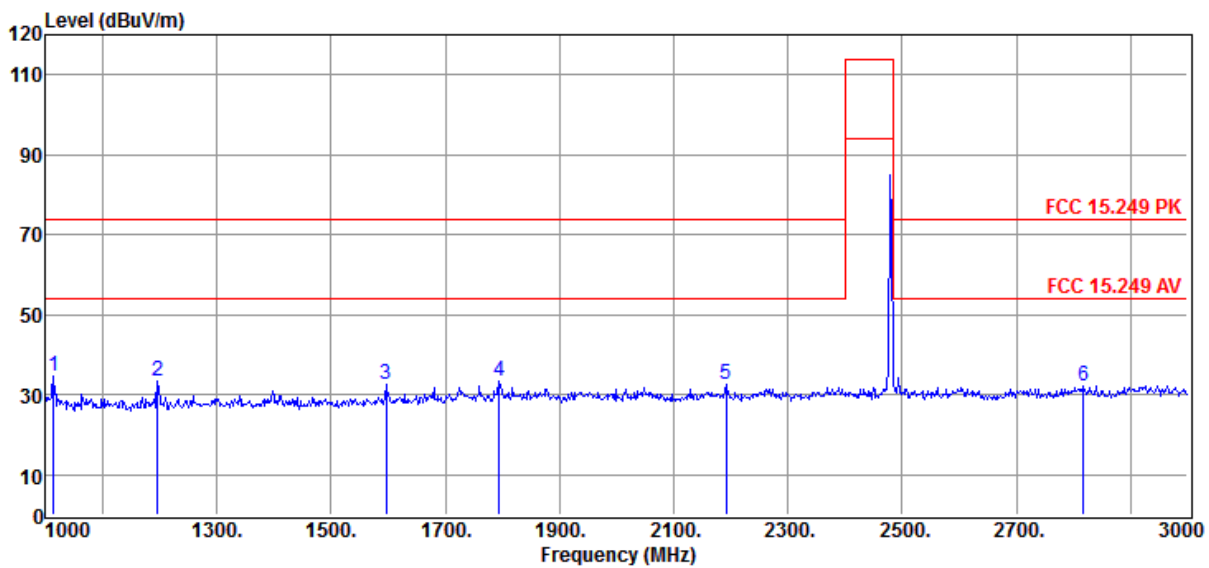
Model Number : Power 80C+

Power Supply : Battery

Test Mode : Tx mode

Memo : BLE2M 2480MHz

Data: 94



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	1014.00	51.56	24.05	43.60	2.51	34.52	74.00	-39.48	Peak	VERTICAL
2	1196.00	49.59	24.67	43.66	2.88	33.48	74.00	-40.52	Peak	VERTICAL
3	1596.00	47.03	26.20	43.78	3.09	32.54	74.00	-41.46	Peak	VERTICAL
4	1794.00	46.49	27.23	43.84	3.36	33.24	74.00	-40.76	Peak	VERTICAL
5	2192.00	44.15	28.34	43.84	3.78	32.43	74.00	-41.57	Peak	VERTICAL
6	2818.00	42.54	29.29	43.65	4.10	32.28	74.00	-41.72	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss – PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission test (3 GHz – 18GHz)

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 03-26-2025

Tested By : Sunny

EUT : Portable Power Bank

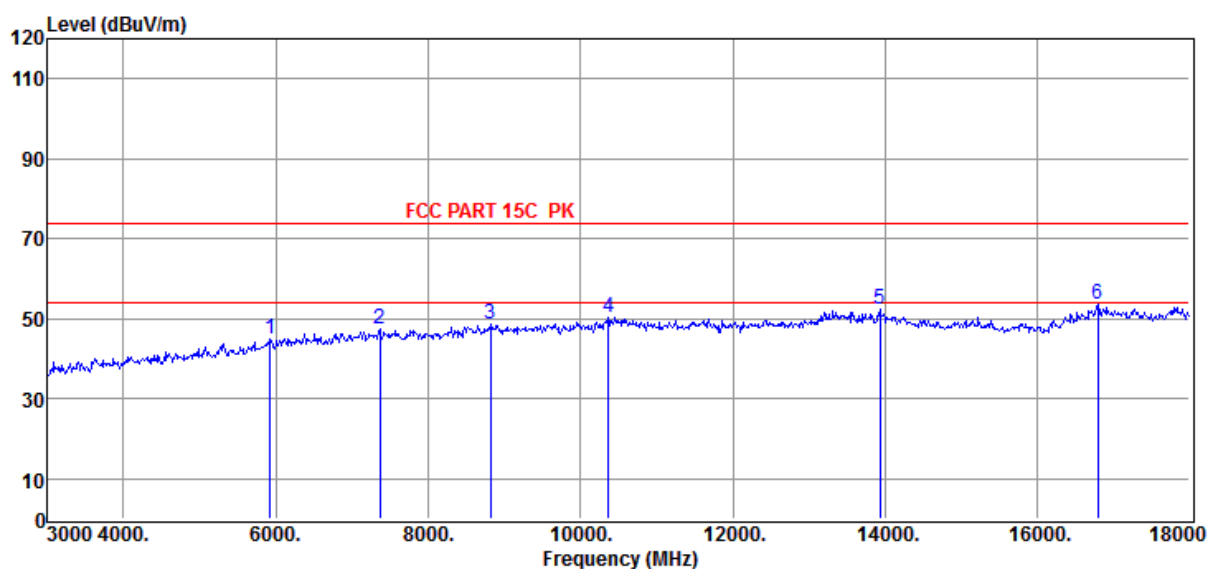
Model Number : Power 80C+

Power Supply : Battery

Test Mode : Tx mode

Memo : BLE1M 2402MHz

Data: 43



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5925.00	38.09	35.88	42.42	13.52	45.07	74.00	-28.93	Peak	HORIZONTAL
2	7365.00	38.23	37.89	42.75	14.23	47.60	74.00	-26.40	Peak	HORIZONTAL
3	8820.00	37.99	38.09	42.92	15.33	48.49	74.00	-25.51	Peak	HORIZONTAL
4	10365.00	37.28	38.95	42.80	17.09	50.52	74.00	-23.48	Peak	HORIZONTAL
5	13935.00	37.15	40.83	43.09	17.42	52.31	74.00	-21.69	Peak	HORIZONTAL
6	16800.00	34.80	41.76	42.60	19.71	53.67	74.00	-20.33	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss – PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 03-26-2025

Tested By : Sunny

EUT : Portable Power Bank

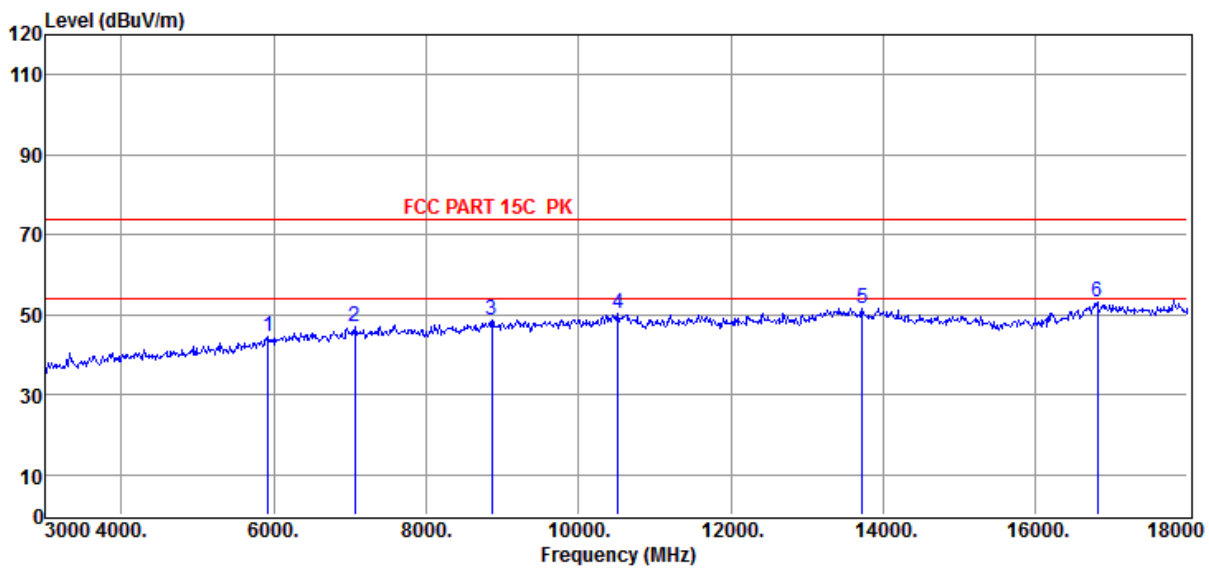
Model Number : Power 80C+

Power Supply : Battery

Test Mode : Tx mode

Memo : BLE1M 2402MHz

Data: 44



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5925.00	37.70	35.88	42.42	13.52	44.68	74.00	-29.32	Peak	VERTICAL
2	7065.00	37.49	37.65	42.63	14.49	47.00	74.00	-27.00	Peak	VERTICAL
3	8865.00	37.97	38.12	42.91	15.38	48.56	74.00	-25.44	Peak	VERTICAL
4	10515.00	36.55	39.00	42.80	17.36	50.11	74.00	-23.89	Peak	VERTICAL
5	13725.00	36.67	40.91	43.07	17.03	51.54	74.00	-22.46	Peak	VERTICAL
6	16815.00	34.23	41.81	42.60	19.63	53.07	74.00	-20.93	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss – PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 03-26-2025

Tested By : Sunny

EUT : Portable Power Bank

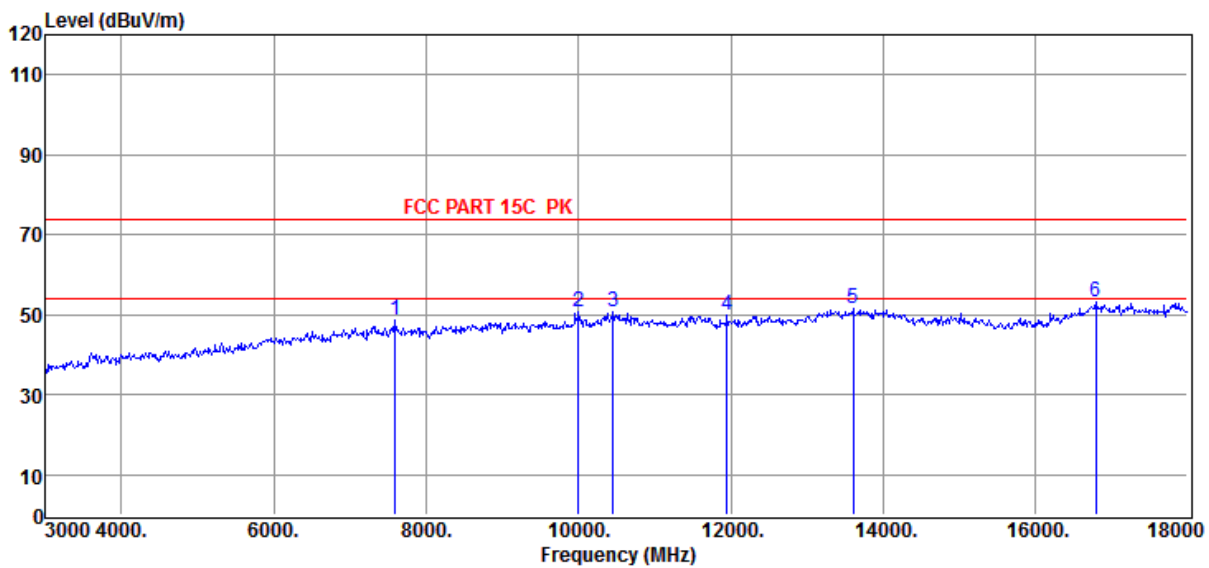
Model Number : Power 80C+

Power Supply : Battery

Test Mode : Tx mode

Memo : BLE1M 2440MHz

Data: 45



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	7590.00	38.85	37.89	42.84	14.78	48.68	74.00	-25.32	Peak	HORIZONTAL
2	10005.00	38.34	38.80	42.80	16.19	50.53	74.00	-23.47	Peak	HORIZONTAL
3	10455.00	37.31	38.98	42.80	17.35	50.84	74.00	-23.16	Peak	HORIZONTAL
4	11955.00	37.17	38.71	42.70	16.78	49.96	74.00	-24.04	Peak	HORIZONTAL
5	13605.00	36.50	40.96	43.06	16.99	51.39	74.00	-22.61	Peak	HORIZONTAL
6	16800.00	34.49	41.76	42.60	19.71	53.36	74.00	-20.64	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss – PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 03-26-2025

Tested By : Sunny

EUT : Portable Power Bank

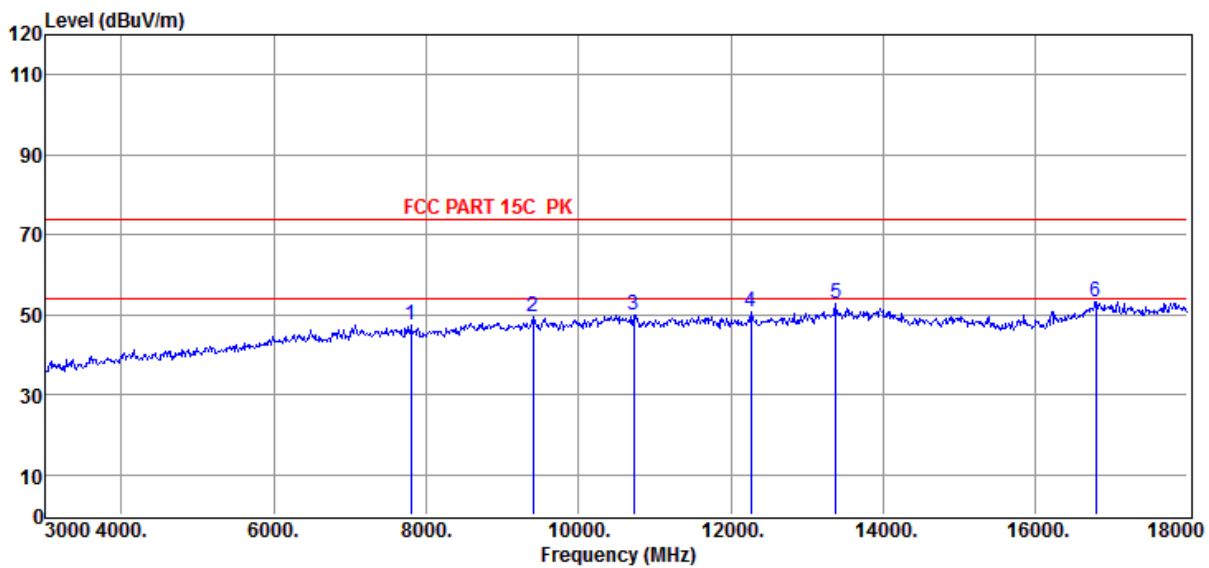
Model Number : Power 80C+

Power Supply : Battery

Test Mode : Tx mode

Memo : BLE1M 2440MHz

Data: 46



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	7800.00	37.61	37.64	42.92	15.03	47.36	74.00	-26.64	Peak	VERTICAL
2	9405.00	38.65	38.44	42.86	15.08	49.31	74.00	-24.69	Peak	VERTICAL
3	10725.00	36.90	38.96	42.80	16.72	49.78	74.00	-24.22	Peak	VERTICAL
4	12270.00	37.49	39.02	42.78	17.05	50.78	74.00	-23.22	Peak	VERTICAL
5	13380.00	37.89	40.88	43.04	17.20	52.93	74.00	-21.07	Peak	VERTICAL
6	16800.00	34.49	41.76	42.60	19.71	53.36	74.00	-20.64	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss – PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 03-26-2025

Tested By : Sunny

EUT : Portable Power Bank

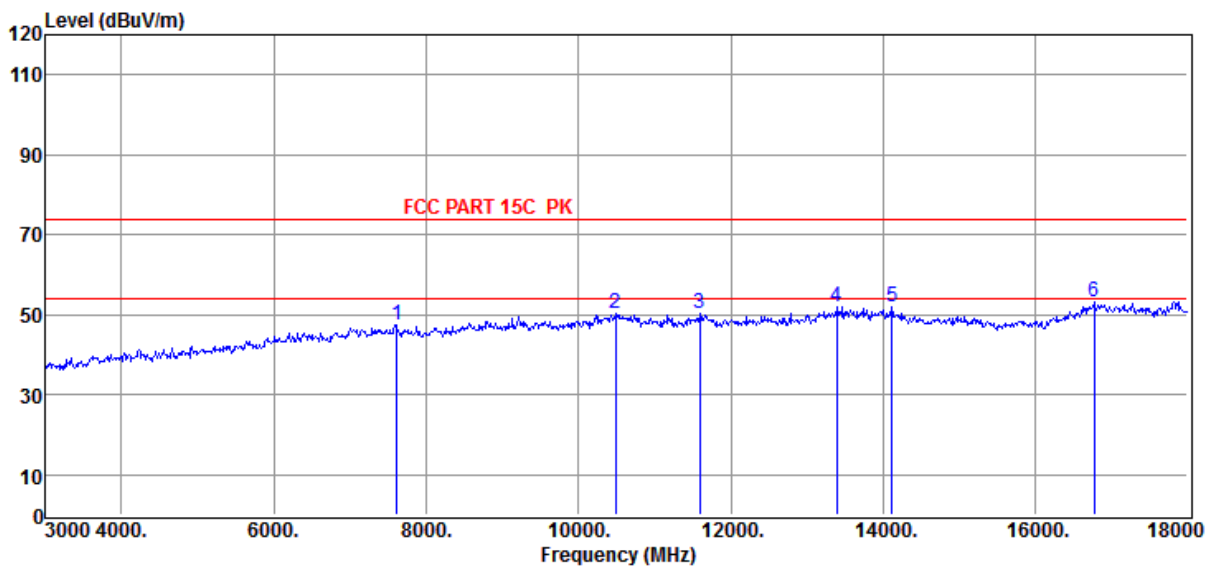
Model Number : Power 80C+

Power Supply : Battery

Test Mode : Tx mode

Memo : BLE1M 2480MHz

Data: 47



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	7620.00	37.55	37.86	42.85	14.69	47.25	74.00	-26.75	Peak	HORIZONTAL
2	10485.00	36.73	38.99	42.80	17.35	50.27	74.00	-23.73	Peak	HORIZONTAL
3	11595.00	36.50	38.78	42.74	17.69	50.23	74.00	-23.77	Peak	HORIZONTAL
4	13395.00	37.07	40.90	43.04	17.19	52.12	74.00	-21.88	Peak	HORIZONTAL
5	14115.00	37.11	40.64	43.07	17.47	52.15	74.00	-21.85	Peak	HORIZONTAL
6	16770.00	34.54	41.66	42.60	19.50	53.10	74.00	-20.90	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss – PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 03-26-2025

Tested By : Sunny

EUT : Portable Power Bank

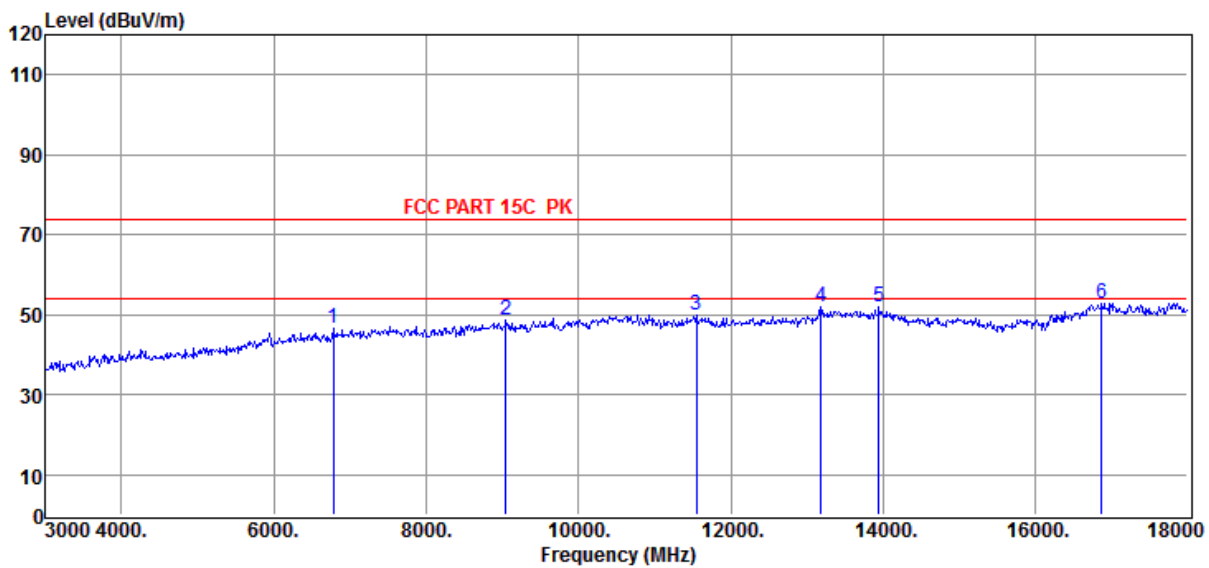
Model Number : Power 80C+

Power Supply : Battery

Test Mode : Tx mode

Memo : BLE1M 2480MHz

Data: 48



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	6780.00	37.67	37.20	42.56	14.21	46.52	74.00	-27.48	Peak	VERTICAL
2	9045.00	38.25	38.23	42.90	14.88	48.46	74.00	-25.54	Peak	VERTICAL
3	11550.00	36.19	38.79	42.74	17.45	49.69	74.00	-24.31	Peak	VERTICAL
4	13185.00	37.08	40.69	43.02	17.27	52.02	74.00	-21.98	Peak	VERTICAL
5	13950.00	36.96	40.82	43.09	17.46	52.15	74.00	-21.85	Peak	VERTICAL
6	16875.00	34.19	42.00	42.60	19.29	52.88	74.00	-21.12	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss – PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 03-26-2025

Tested By : Sunny

EUT : Portable Power Bank

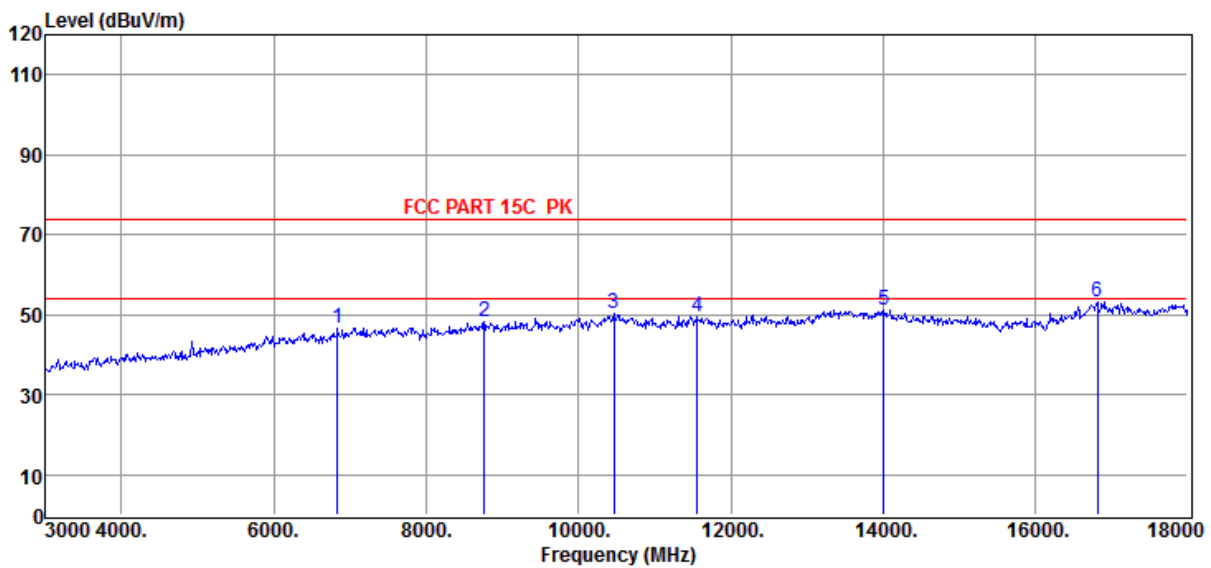
Model Number : Power 80C+

Power Supply : Battery

Test Mode : Tx mode

Memo : BLE2M 2402MHz

Data: 49



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	6840.00	37.69	37.31	42.57	14.16	46.59	74.00	-27.41	Peak	HORIZONTAL
2	8760.00	37.93	38.06	42.92	15.11	48.18	74.00	-25.82	Peak	HORIZONTAL
3	10470.00	36.96	38.99	42.80	17.35	50.50	74.00	-23.50	Peak	HORIZONTAL
4	11565.00	36.02	38.79	42.74	17.53	49.60	74.00	-24.40	Peak	HORIZONTAL
5	14010.00	36.00	40.79	43.10	17.59	51.28	74.00	-22.72	Peak	HORIZONTAL
6	16815.00	34.44	41.81	42.60	19.63	53.28	74.00	-20.72	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss – PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 03-26-2025

Tested By : Sunny

EUT : Portable Power Bank

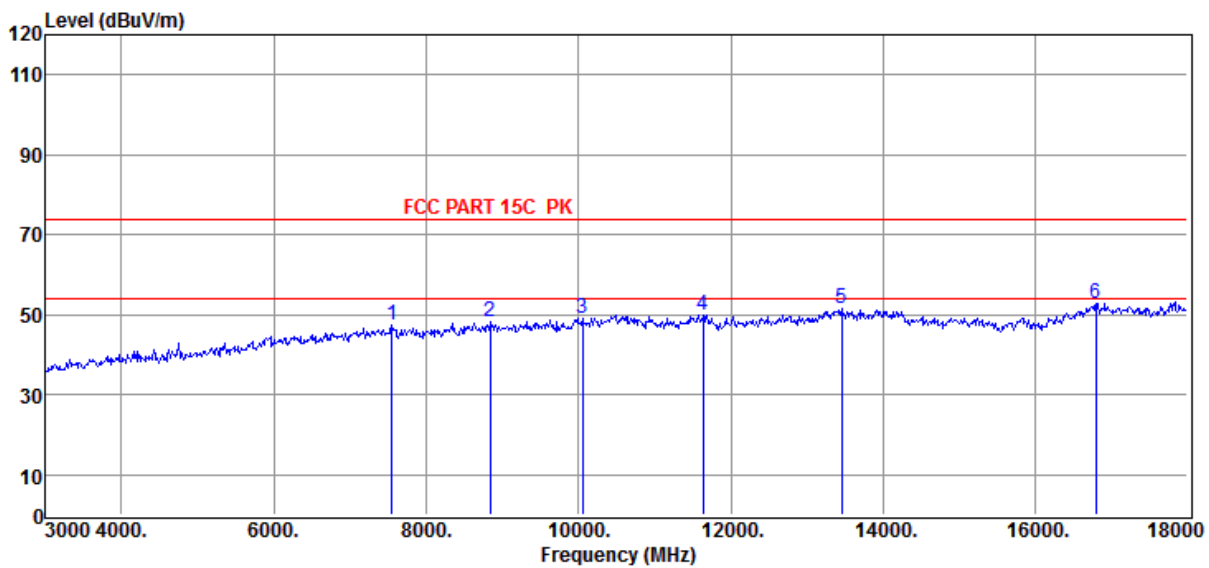
Model Number : Power 80C+

Power Supply : Battery

Test Mode : Tx mode

Memo : BLE2M 2402MHz

Data: 50



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	7545.00	37.64	37.95	42.82	14.53	47.30	74.00	-26.70	Peak	VERTICAL
2	8835.00	37.63	38.10	42.92	15.35	48.16	74.00	-25.84	Peak	VERTICAL
3	10050.00	37.12	38.82	42.80	16.13	49.27	74.00	-24.73	Peak	VERTICAL
4	11640.00	36.44	38.77	42.74	17.49	49.96	74.00	-24.04	Peak	VERTICAL
5	13455.00	36.43	40.96	43.05	17.14	51.48	74.00	-22.52	Peak	VERTICAL
6	16800.00	34.09	41.76	42.60	19.71	52.96	74.00	-21.04	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss – PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 03-26-2025

Tested By : Sunny

EUT : Portable Power Bank

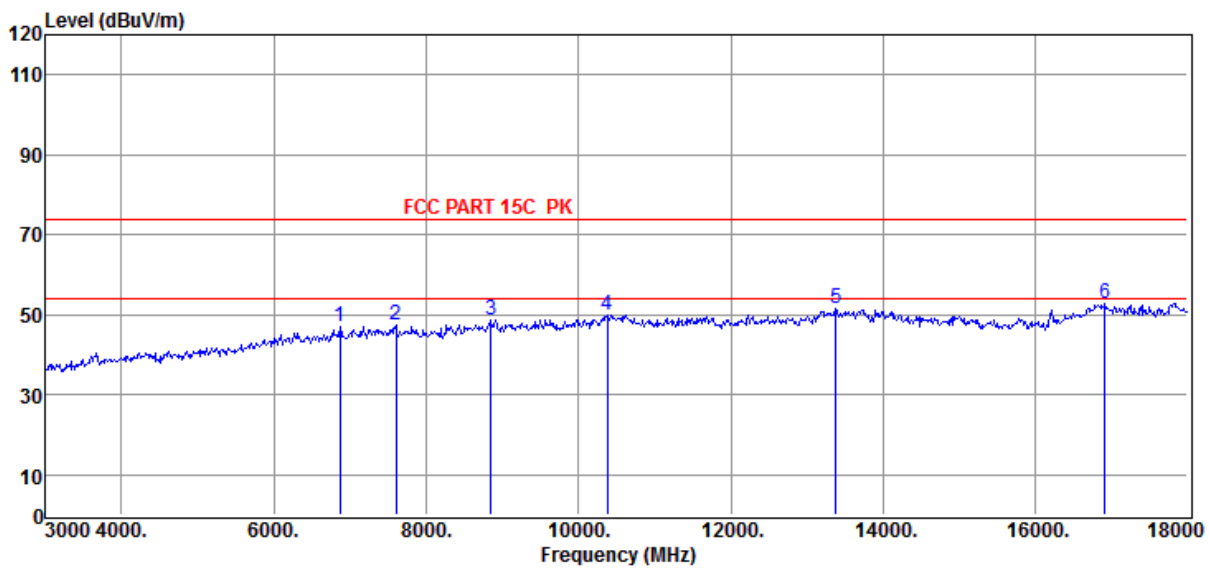
Model Number : Power 80C+

Power Supply : Battery

Test Mode : Tx mode

Memo : BLE2M 2440MHz

Data: 51



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	6870.00	38.25	37.37	42.57	14.00	47.05	74.00	-26.95	Peak	HORIZONTAL
2	7605.00	37.43	37.87	42.84	14.80	47.26	74.00	-26.74	Peak	HORIZONTAL
3	8850.00	38.06	38.11	42.92	15.36	48.61	74.00	-25.39	Peak	HORIZONTAL
4	10380.00	36.61	38.95	42.80	17.20	49.96	74.00	-24.04	Peak	HORIZONTAL
5	13380.00	36.32	40.88	43.04	17.20	51.36	74.00	-22.64	Peak	HORIZONTAL
6	16920.00	34.02	42.14	42.60	19.04	52.60	74.00	-21.40	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss – PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 03-26-2025

Tested By : Sunny

EUT : Portable Power Bank

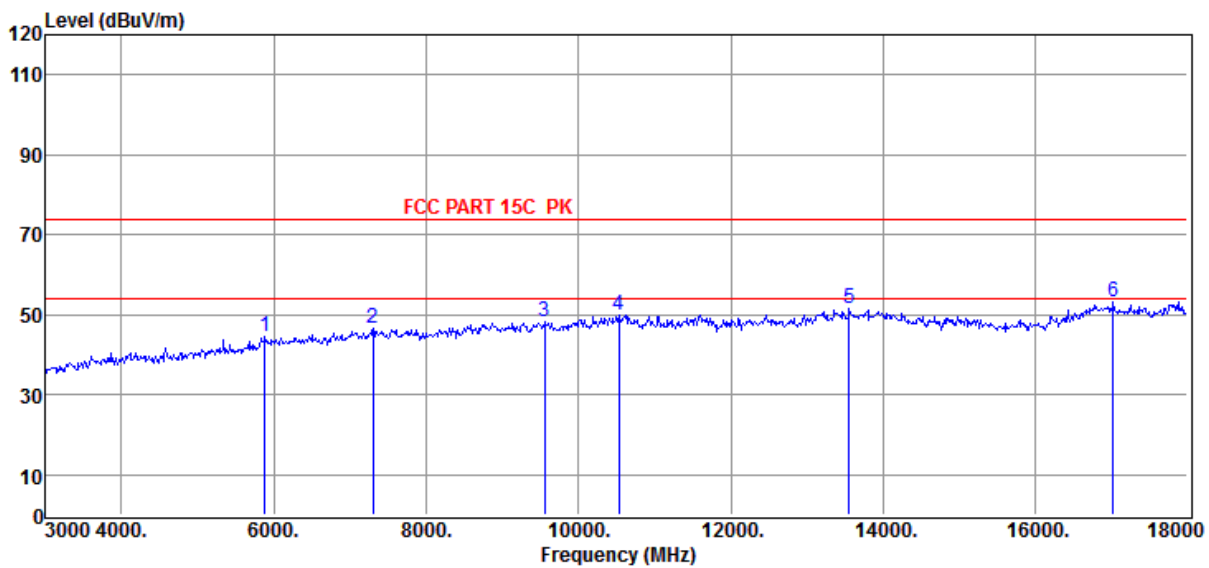
Model Number : Power 80C+

Power Supply : Battery

Test Mode : Tx mode

Memo : BLE2M 2440MHz

Data: 52



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5880.00	37.68	35.74	42.42	13.44	44.44	74.00	-29.56	Peak	VERTICAL
2	7305.00	37.23	37.84	42.72	14.32	46.67	74.00	-27.33	Peak	VERTICAL
3	9555.00	36.92	38.53	42.84	15.61	48.22	74.00	-25.78	Peak	VERTICAL
4	10530.00	36.55	38.99	42.80	17.36	50.10	74.00	-23.90	Peak	VERTICAL
5	13560.00	36.54	40.98	43.06	17.03	51.49	74.00	-22.51	Peak	VERTICAL
6	17025.00	34.87	42.40	42.58	18.55	53.24	74.00	-20.76	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss – PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 03-26-2025

Tested By : Sunny

EUT : Portable Power Bank

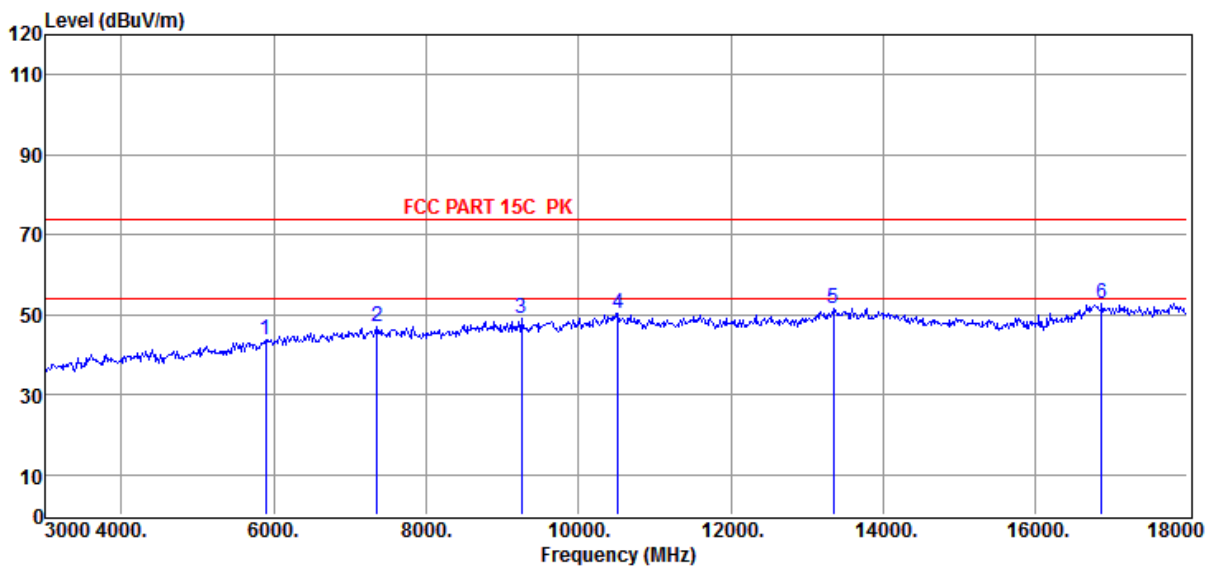
Model Number : Power 80C+

Power Supply : Battery

Test Mode : Tx mode

Memo : BLE2M 2480MHz

Data: 53



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	5895.00	36.72	35.78	42.42	13.55	43.63	74.00	-30.37	Peak	HORIZONTAL
2	7350.00	37.41	37.88	42.74	14.26	46.81	74.00	-27.19	Peak	HORIZONTAL
3	9255.00	38.68	38.35	42.87	15.10	49.26	74.00	-24.74	Peak	HORIZONTAL
4	10515.00	36.82	39.00	42.80	17.36	50.38	74.00	-23.62	Peak	HORIZONTAL
5	13350.00	36.45	40.85	43.03	17.23	51.50	74.00	-22.50	Peak	HORIZONTAL
6	16875.00	34.25	42.00	42.60	19.29	52.94	74.00	-21.06	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss – PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 03-26-2025

Tested By : Sunny

EUT : Portable Power Bank

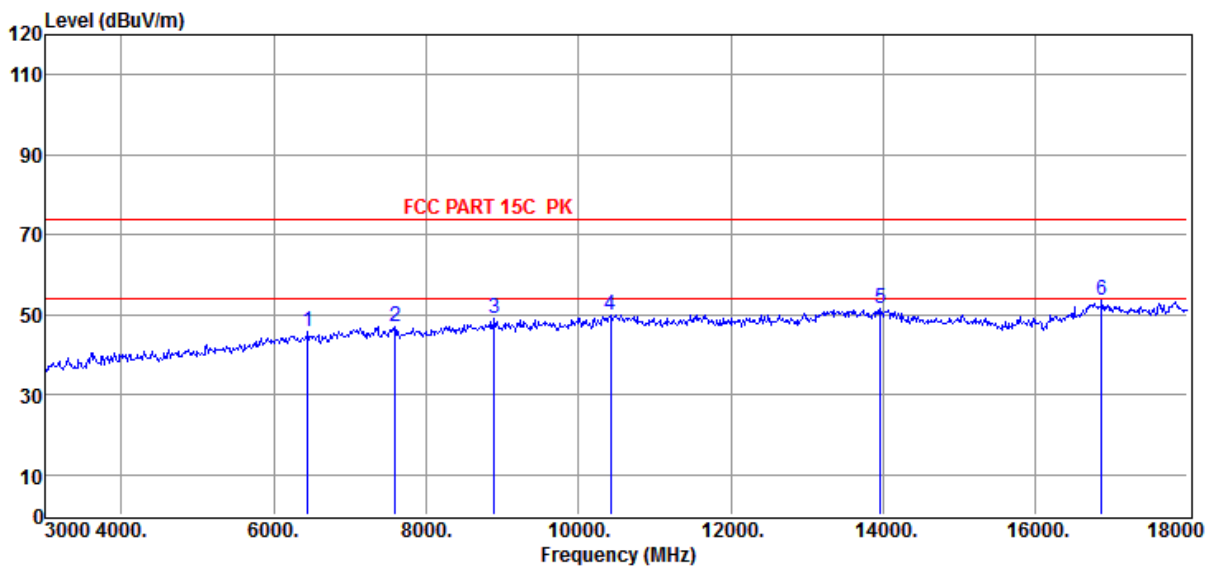
Model Number : Power 80C+

Power Supply : Battery

Test Mode : Tx mode

Memo : BLE2M 2480MHz

Data: 54



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	6450.00	38.02	36.64	42.49	13.66	45.83	74.00	-28.17	Peak	VERTICAL
2	7590.00	37.37	37.89	42.84	14.78	47.20	74.00	-26.80	Peak	VERTICAL
3	8895.00	38.41	38.14	42.91	15.41	49.05	74.00	-24.95	Peak	VERTICAL
4	10425.00	36.57	38.97	42.80	17.34	50.08	74.00	-23.92	Peak	VERTICAL
5	13965.00	36.27	40.81	43.10	17.50	51.48	74.00	-22.52	Peak	VERTICAL
6	16875.00	35.00	42.00	42.60	19.29	53.69	74.00	-20.31	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss – PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission test (18 GHz – 26.5GHz)

Radiated Emission Test Result

Test Site : DDT 10m Chamber

Test Date : 03-18-2025

Tested By : Sunny

EUT : Portable Power Bank

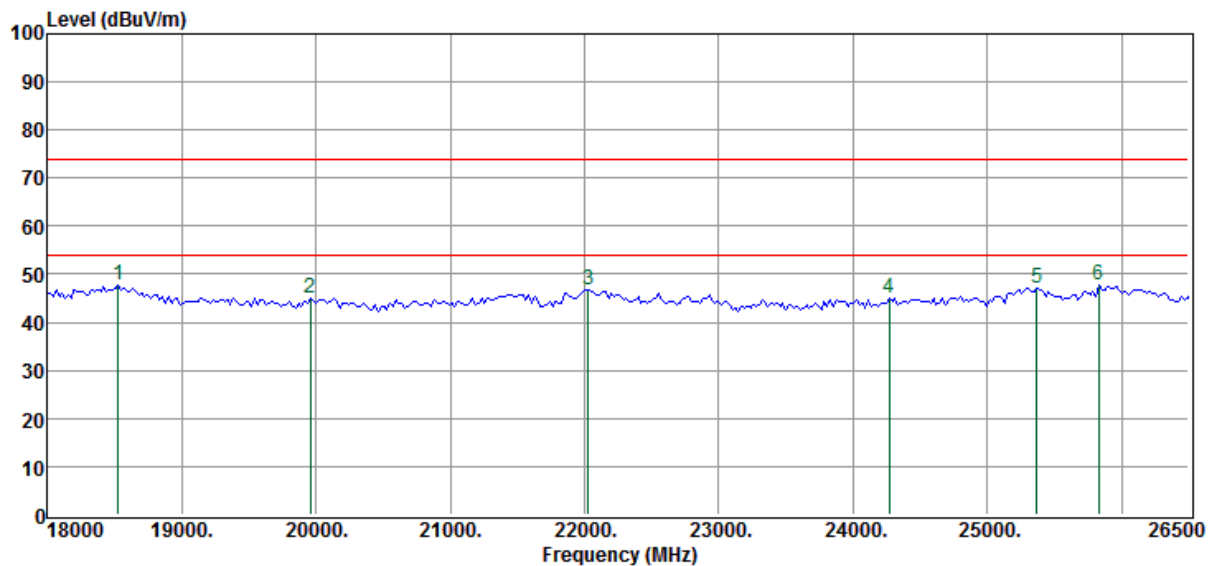
Model Number : Power 80C+

Power Supply : Battery

Test Mode : Tx mode

Memo : BLE 1M 2402MHz

Data: 3



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	18528.00	41.44	-2.33	8.50	47.61	74.00	-26.39	Peak	HORIZONTAL
2	19958.00	40.38	-4.44	8.96	44.90	74.00	-29.10	Peak	HORIZONTAL
3	22026.00	42.77	-5.08	8.93	46.62	74.00	-27.38	Peak	HORIZONTAL
4	24270.00	40.94	-5.31	9.41	45.04	74.00	-28.96	Peak	HORIZONTAL
5	25370.00	42.37	-4.78	9.43	47.02	74.00	-26.98	Peak	HORIZONTAL
6	25832.00	42.77	-4.70	9.75	47.82	74.00	-26.18	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

Radiated Emission Test Result

Test Site : DDT 10m Chamber

Test Date : 03-18-2025

Tested By : Sunny

EUT : Portable Power Bank

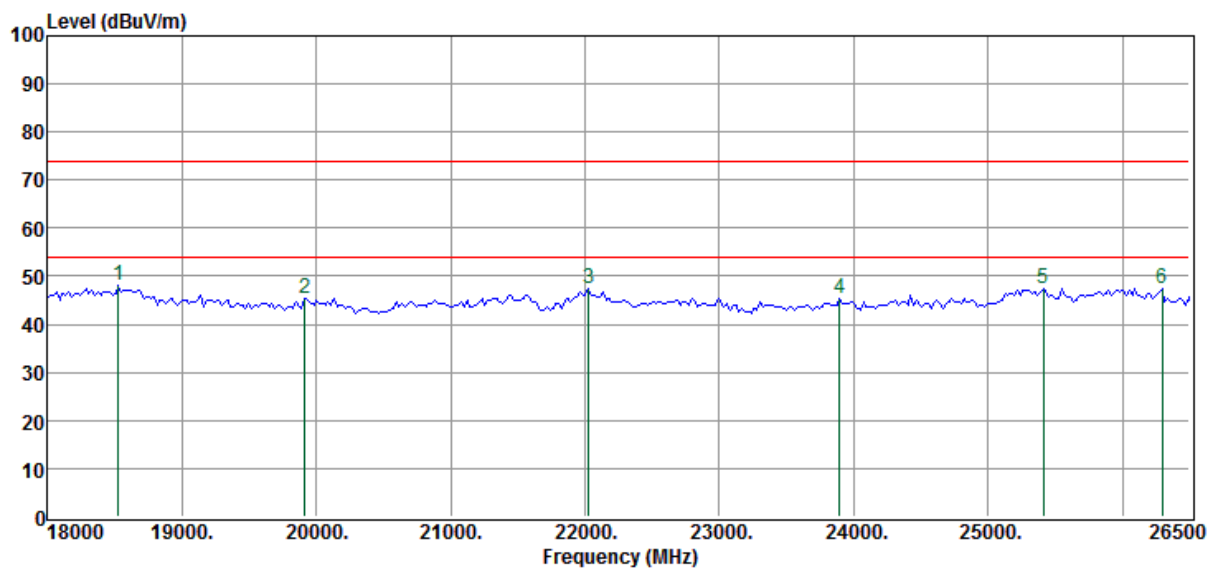
Model Number : Power 80C+

Power Supply : Battery

Test Mode : Tx mode

Memo : BLE 1M 2402MHz

Data: 4



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	18528.00	42.05	-2.33	8.50	48.22	74.00	-25.78	Peak	VERTICAL
2	19914.00	41.04	-4.48	8.95	45.51	74.00	-28.49	Peak	VERTICAL
3	22026.00	43.62	-5.08	8.93	47.47	74.00	-26.53	Peak	VERTICAL
4	23896.00	41.47	-5.05	9.09	45.51	74.00	-28.49	Peak	VERTICAL
5	25414.00	42.79	-4.75	9.44	47.48	74.00	-26.52	Peak	VERTICAL
6	26294.00	42.64	-5.08	9.72	47.28	74.00	-26.72	Peak	VERTICAL

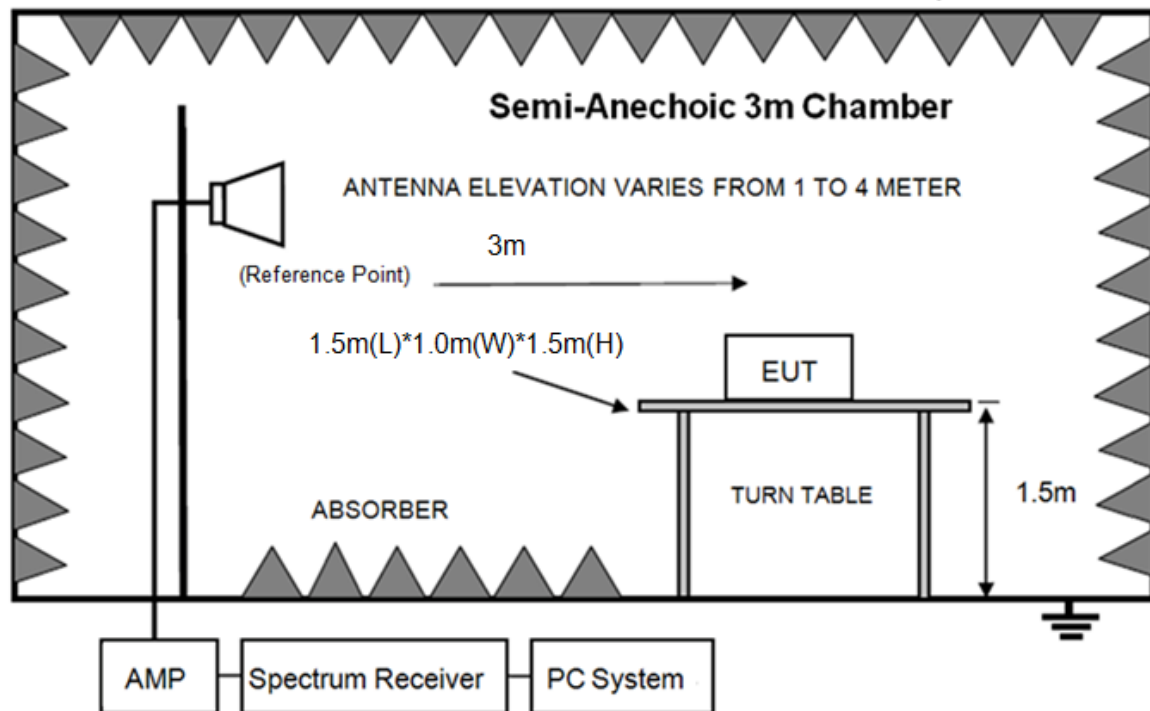
Note: 1. Result Level = Read Level + Antenna Factor + Cable loss.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

6. Band Edge Compliance

6.1. Block diagram of test setup



6.2. Limit

All the lower and upper band-edges emissions appearing within 2310 MHz to 2390 MHz and 2483.5 MHz to 2500 MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

6.3. Test Procedure

Same with clause 5.3 except change investigated frequency range.

Remark: All restriction band have been tested, and only the worst case is shown in report.

6.4. Test result

Pass. (See below detailed test result)

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 03-26-2025

Tested By : Sunny

EUT : Portable Power Bank

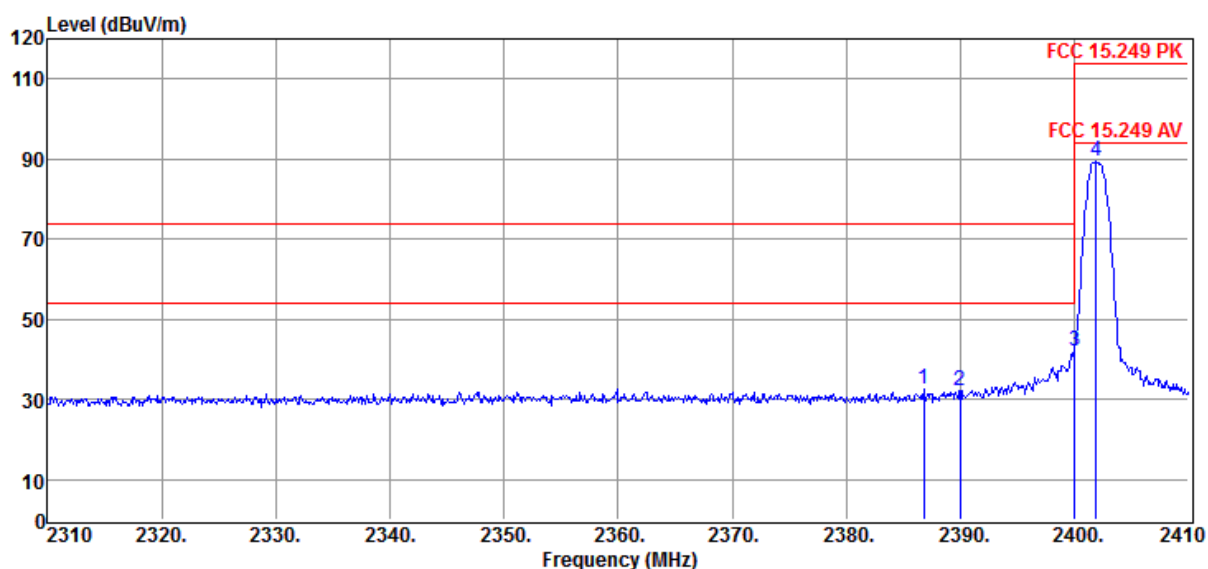
Model Number : Power 80C+

Power Supply : Battery

Test Mode : Tx mode

Memo : BLE1M 2402MHz

Data: 71



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2386.80	44.28	28.38	43.78	3.88	32.76	74.00	-41.24	Peak	HORIZONTAL
2	2390.00	43.71	28.38	43.78	3.87	32.18	74.00	-41.82	Peak	HORIZONTAL
3	2400.00	53.52	28.38	43.78	3.85	41.97	74.00	-32.03	Peak	HORIZONTAL
4	2401.90	101.01	28.38	43.78	3.85	89.46	114.00	-24.54	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss – PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 03-26-2025

Tested By : Sunny

EUT : Portable Power Bank

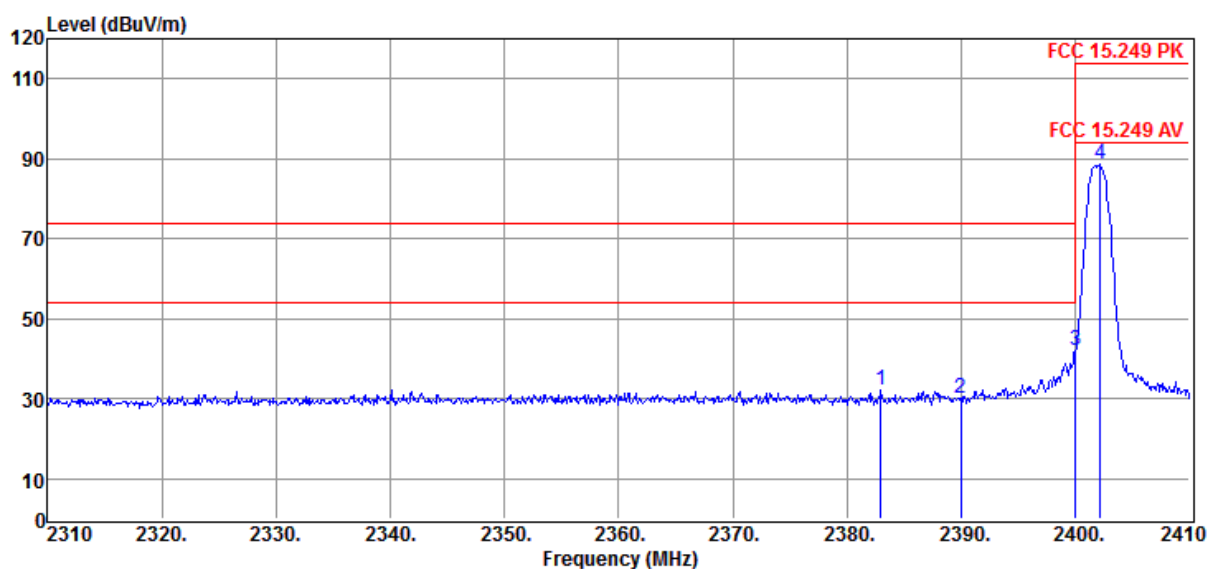
Model Number : Power 80C+

Power Supply : Battery

Test Mode : Tx mode

Memo : BLE1M 2402MHz

Data: 72



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2383.00	43.88	28.38	43.79	3.89	32.36	74.00	-41.64	Peak	VERTICAL
2	2390.00	41.74	28.38	43.78	3.87	30.21	74.00	-43.79	Peak	VERTICAL
3	2400.00	53.42	28.38	43.78	3.85	41.87	74.00	-32.13	Peak	VERTICAL
4	2402.20	100.33	28.38	43.78	3.85	88.78	114.00	-25.22	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss – PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 03-26-2025

Tested By : Sunny

EUT : Portable Power Bank

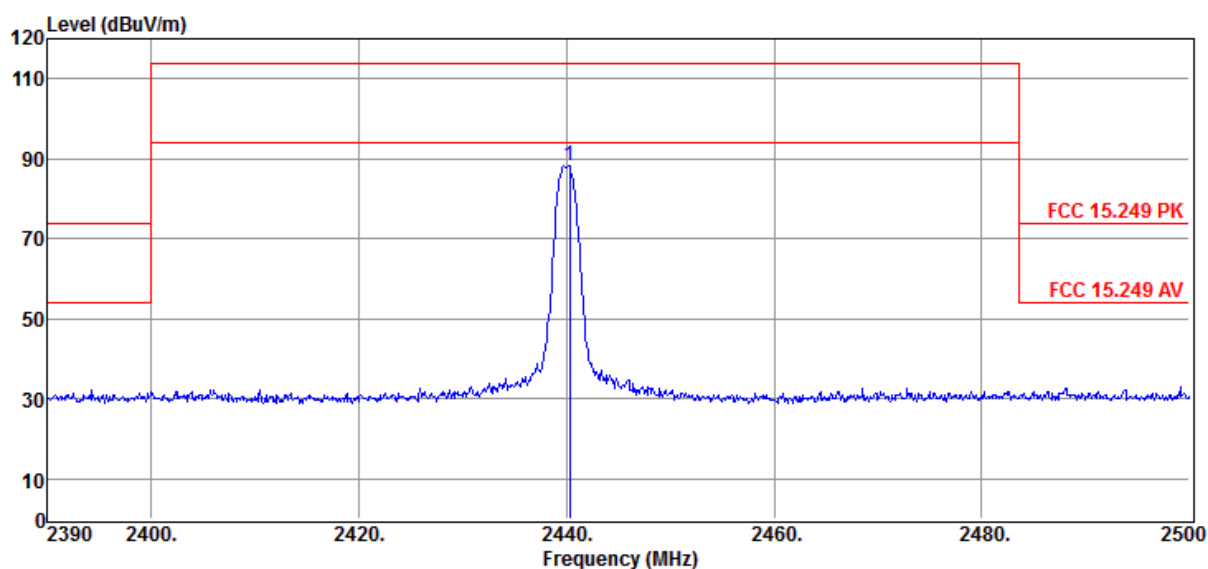
Model Number : Power 80C+

Power Supply : Battery

Test Mode : Tx mode

Memo : BLE1M 2440MHz

Data: 73



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2440.27	99.98	28.39	43.77	3.82	88.42	114.00	-25.58	Peak	HORIZONTAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss – PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 03-26-2025

Tested By : Sunny

EUT : Portable Power Bank

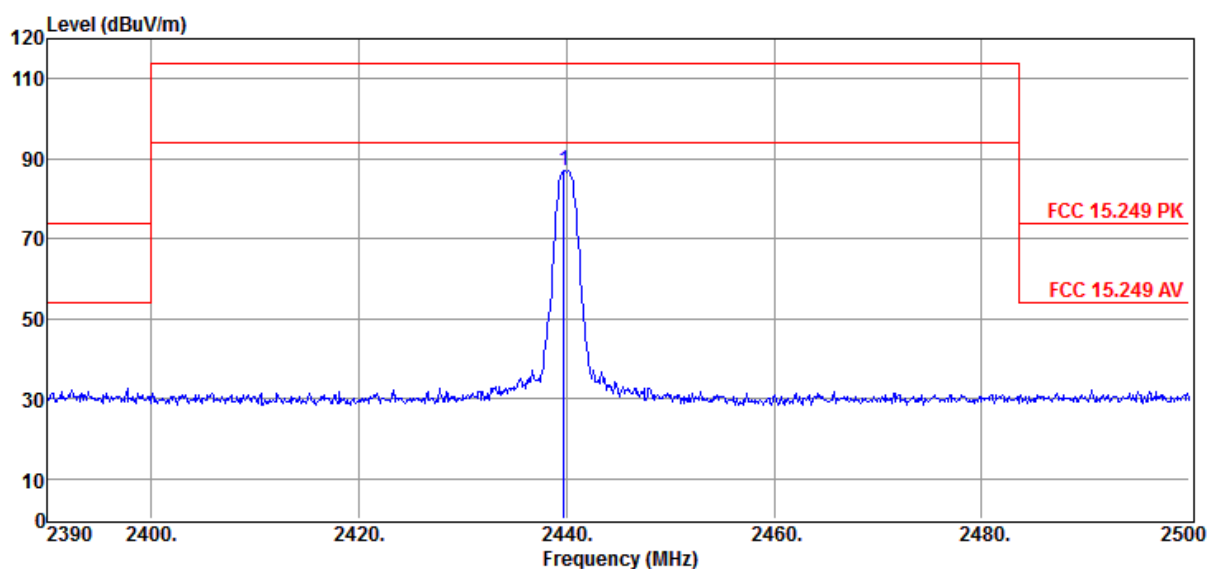
Model Number : Power 80C+

Power Supply : Battery

Test Mode : Tx mode

Memo : BLE1M 2440MHz

Data: 74



Item (Mark)	Freq. (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2439.72	98.45	28.39	43.77	3.82	86.89	114.00	-27.11	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss – PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 03-26-2025

Tested By : Sunny

EUT : Portable Power Bank

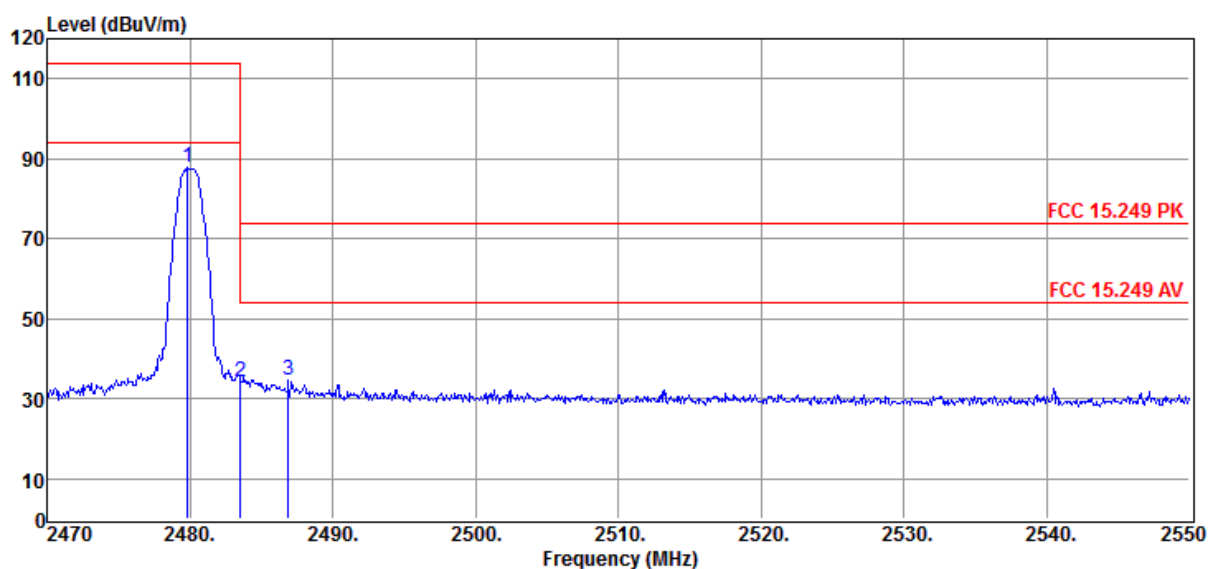
Model Number : Power 80C+

Power Supply : Battery

Test Mode : Tx mode

Memo : BLE1M 2480MHz

Data: 75



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2479.84	99.22	28.40	43.76	3.80	87.66	114.00	-26.34	Peak	HORIZONTAL
2	2483.50	45.66	28.40	43.75	3.80	34.11	74.00	-39.89	Peak	HORIZONTAL
3	2486.88	46.16	28.40	43.75	3.80	34.61	74.00	-39.39	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss – PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 03-26-2025

Tested By : Sunny

EUT : Portable Power Bank

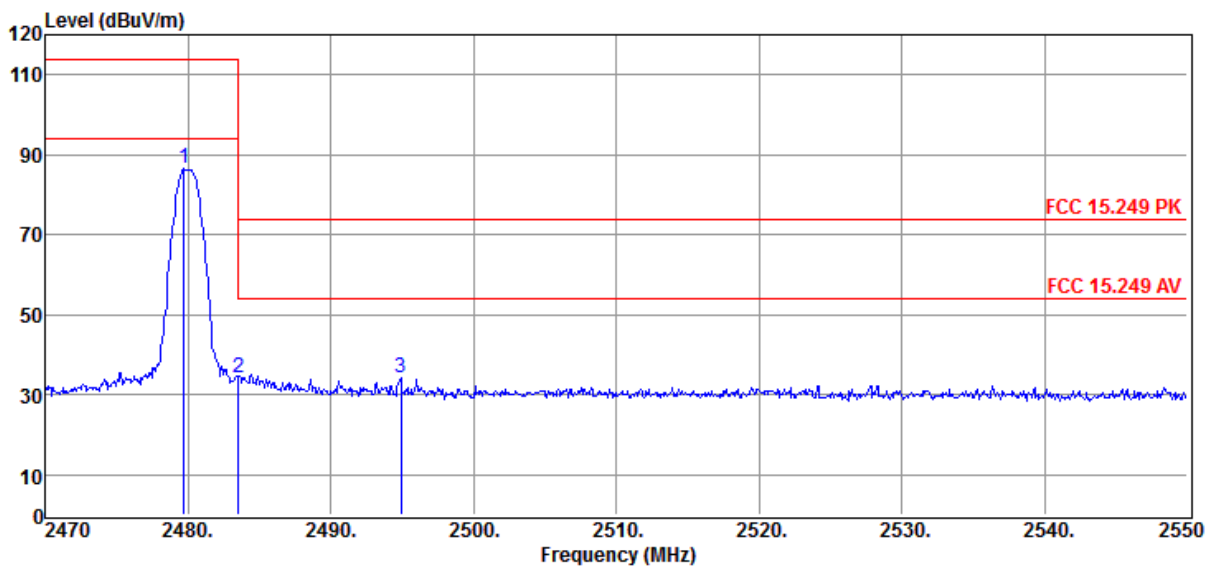
Model Number : Power 80C+

Power Supply : Battery

Test Mode : Tx mode

Memo : BLE1M 2480MHz

Data: 76



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2479.68	98.12	28.40	43.76	3.80	86.56	114.00	-27.44	Peak	VERTICAL
2	2483.50	45.58	28.40	43.75	3.80	34.03	74.00	-39.97	Peak	VERTICAL
3	2494.88	45.59	28.40	43.75	3.79	34.03	74.00	-39.97	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss – PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 03-26-2025

Tested By : Sunny

EUT : Portable Power Bank

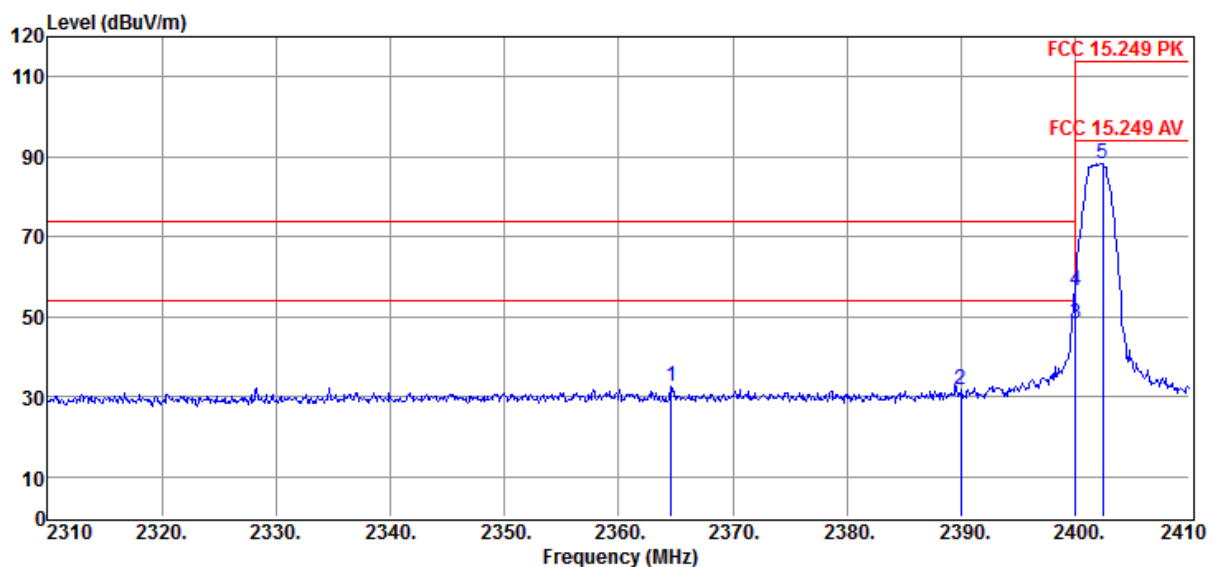
Model Number : Power 80C+

Power Supply : Battery

Test Mode : Tx mode

Memo : BLE2M 2402MHz

Data: 77



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2364.60	44.06	28.37	43.79	3.93	32.57	74.00	-41.43	Peak	HORIZONTAL
2	2390.00	43.18	28.38	43.78	3.87	31.65	74.00	-42.35	Peak	HORIZONTAL
3	2400.00	59.93	28.38	43.78	3.85	48.38	54.00	-5.62	Average	HORIZONTAL
4	2400.00	68.12	28.38	43.78	3.85	56.57	74.00	-17.43	Peak	HORIZONTAL
5	2402.40	99.94	28.38	43.78	3.85	88.39	114.00	-25.61	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss – PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 03-26-2025

Tested By : Sunny

EUT : Portable Power Bank

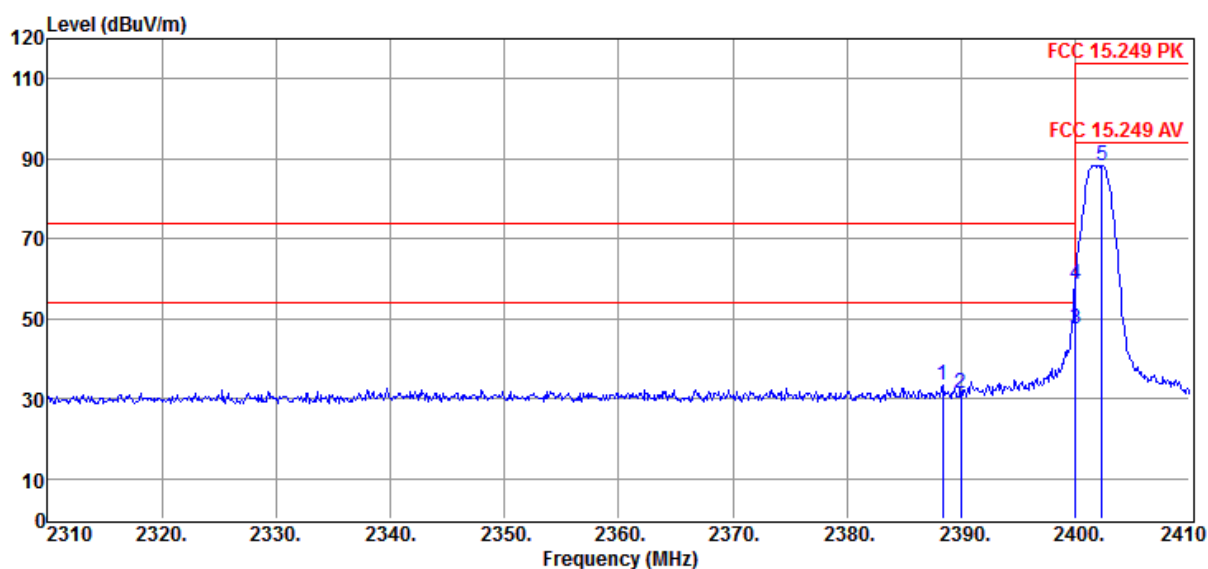
Model Number : Power 80C+

Power Supply : Battery

Test Mode : Tx mode

Memo : BLE2M 2402MHz

Data: 78



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2388.40	45.06	28.38	43.78	3.88	33.54	74.00	-40.46	Peak	VERTICAL
2	2390.00	42.75	28.38	43.78	3.87	31.22	74.00	-42.78	Peak	VERTICAL
3	2400.00	58.93	28.38	43.78	3.85	47.38	54.00	-6.62	Average	VERTICAL
4	2400.00	70.30	28.38	43.78	3.85	58.75	74.00	-15.25	Peak	VERTICAL
5	2402.30	99.98	28.38	43.78	3.85	88.43	114.00	-25.57	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss – PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 03-26-2025

Tested By : Sunny

EUT : Portable Power Bank

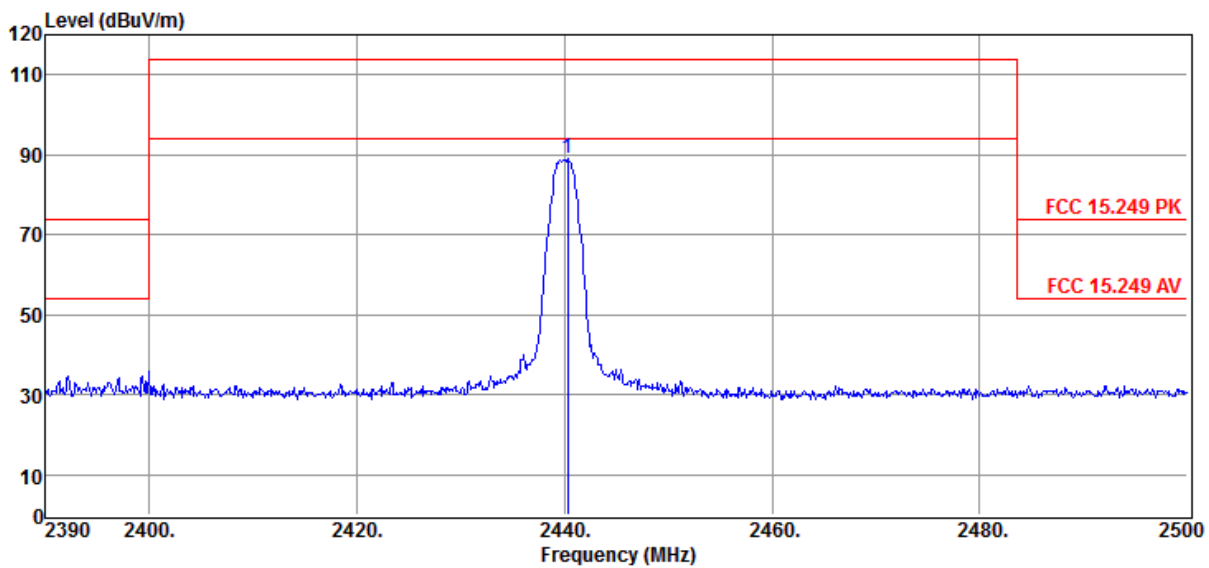
Model Number : Power 80C+

Power Supply : Battery

Test Mode : Tx mode

Memo : BLE2M 2440MHz

Data: 79



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2440.27	100.44	28.39	43.77	3.82	88.88	114.00	-25.12	Peak	HORIZONTAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss – PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 03-26-2025

Tested By : Sunny

EUT : Portable Power Bank

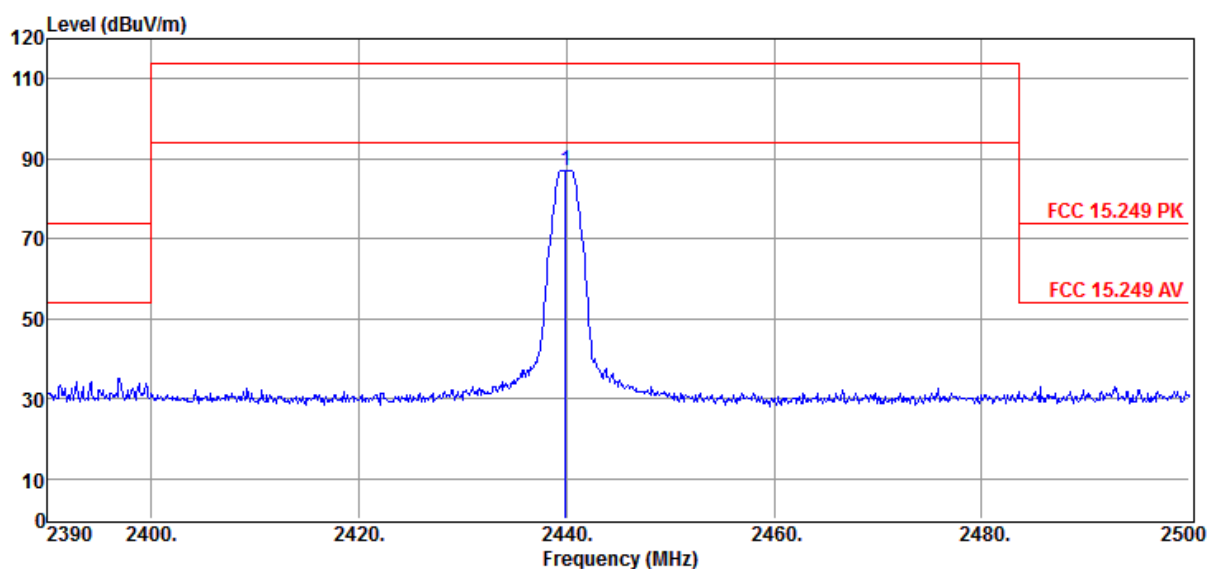
Model Number : Power 80C+

Power Supply : Battery

Test Mode : Tx mode

Memo : BLE2M 2440MHz

Data: 80



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2439.94	98.77	28.39	43.77	3.82	87.21	114.00	-26.79	Peak	VERTICAL

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss – PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.
4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 03-26-2025

Tested By : Sunny

EUT : Portable Power Bank

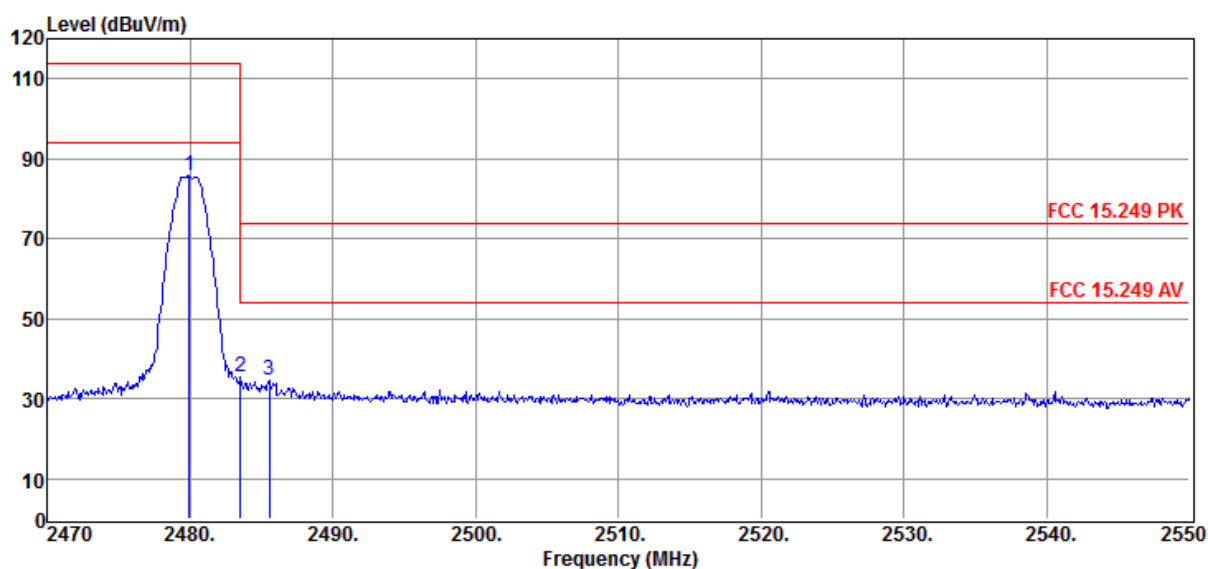
Model Number : Power 80C+

Power Supply : Battery

Test Mode : Tx mode

Memo : BLE2M 2480MHz

Data: 81



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2479.92	97.15	28.40	43.76	3.80	85.59	114.00	-28.41	Peak	HORIZONTAL
2	2483.52	47.01	28.40	43.75	3.80	35.46	74.00	-38.54	Peak	HORIZONTAL
3	2485.52	46.13	28.40	43.75	3.80	34.58	74.00	-39.42	Peak	HORIZONTAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss – PRM Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

Radiated Emission Test Result

Test Site : 10m Chamber

Test Date : 03-26-2025

Tested By : Sunny

EUT : Portable Power Bank

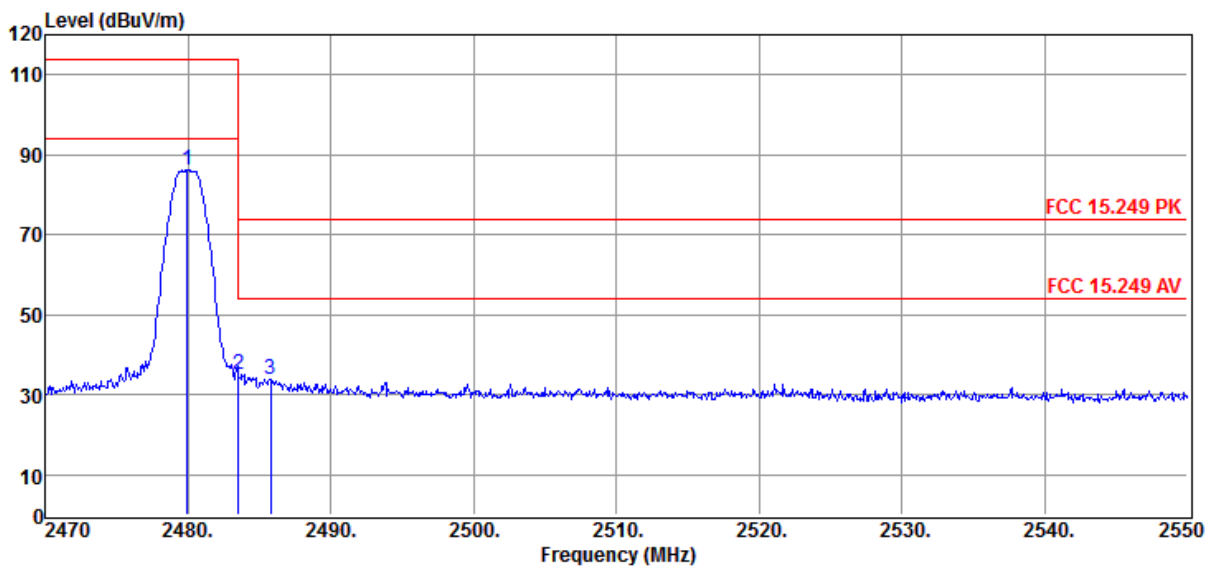
Model Number : Power 80C+

Power Supply : Battery

Test Mode : Tx mode

Memo : BLE2M 2480MHz

Data: 82



Item (Mark)	Freq. (MHz)	Read Level (dBμV)	Antenna Factor (dB/m)	PRM Factor dB	Cable Loss dB	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
1	2479.92	97.82	28.40	43.76	3.80	86.26	114.00	-27.74	Peak	VERTICAL
2	2483.50	46.65	28.40	43.75	3.80	35.10	74.00	-38.90	Peak	VERTICAL
3	2485.76	45.41	28.40	43.75	3.80	33.86	74.00	-40.14	Peak	VERTICAL

Note: 1. Result Level = Read Level + Antenna Factor + Cable loss – PRM Factor.

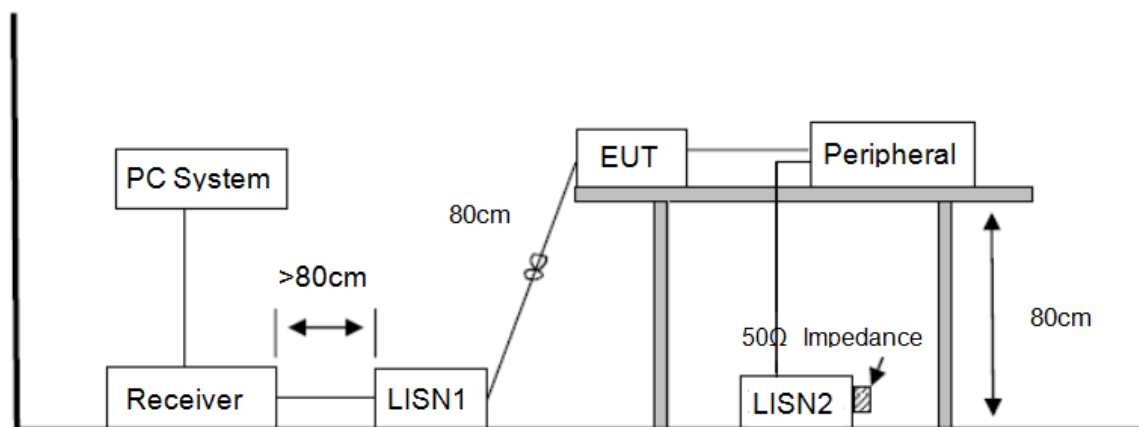
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

4. Margin = Result Level - Limit.

7. Power Line Conducted Emission

7.1. Block diagram of test setup



7.2. Power line conducted emission limits

Frequency	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150 kHz ~ 500 kHz	66 ~ 56*	56 ~ 46*
500 kHz ~ 5 MHz	56	46
5 MHz ~ 30 MHz	60	50

Note 1: * Decreasing linearly with logarithm of frequency.

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

7.3. Test procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80 cm above the ground plane.

Configuration EUT to simulate typical usage as described in clause 2.4 and test equipment as described in clause 3.0 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

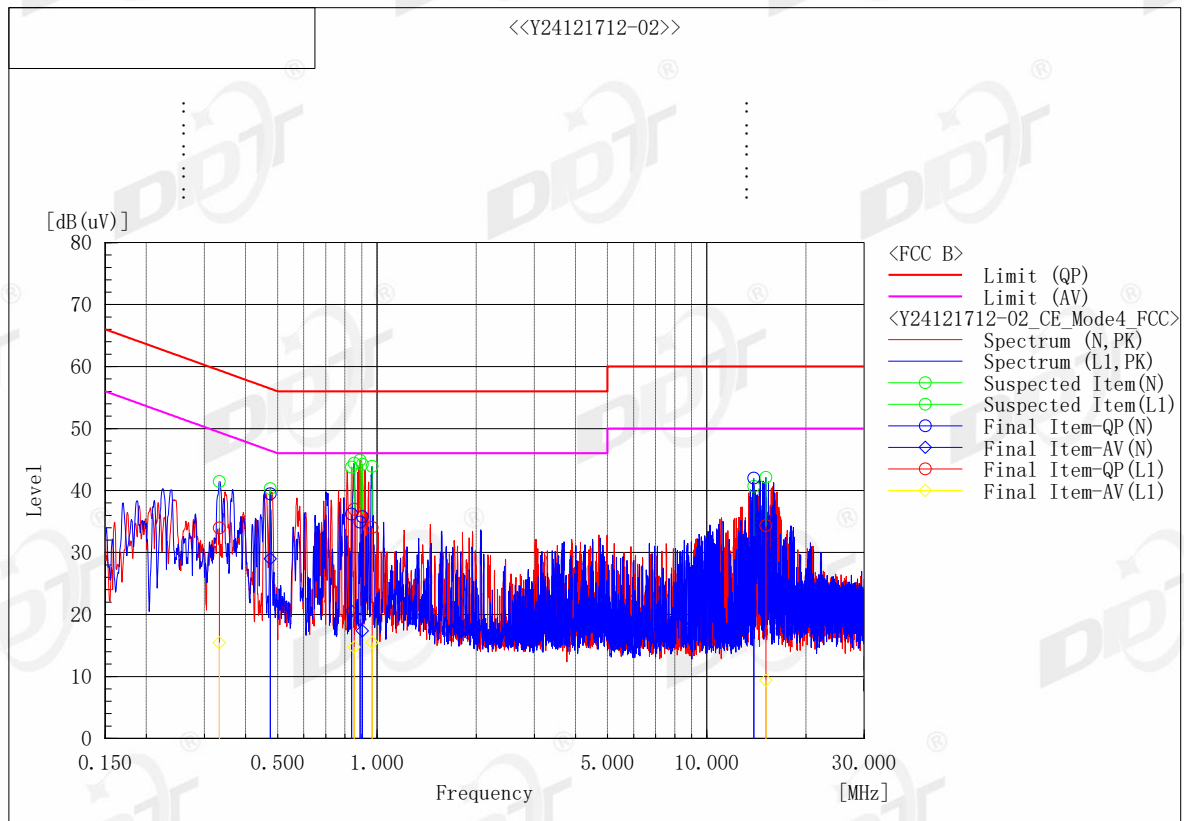
7.4. Test result

Pass. (See below detailed test result)

Note1: All emissions not reported below are too low against the prescribed limits.

Note2: Pre-test AC conducted emission at all mode, only the worst case was recorded in this report.

Conducted Emission Test Result



Final Result

--- N Phase ---

No.	Frequency [MHz]	Reading QP [dB(uV)]	Reading CAV [dB(uV)]	c. f [dB]	Result QP [dB(uV)]	Result CAV [dB(uV)]	Limit QP [dB(uV)]	Limit AV [dB(uV)]	Margin QP [dB]	Margin CAV [dB]
1	0.47475	29.7	19.2	9.8	39.5	29.0	56.4	46.4	16.9	17.4
2	13.88708	31.8	21.0	10.2	42.0	31.2	60.0	50.0	18.0	18.8
3	0.83811	26.4	10.7	9.8	36.2	20.5	56.0	46.0	19.8	25.5
4	0.90322	26.0	7.6	9.8	35.8	17.4	56.0	46.0	20.2	28.6
5	0.88912	25.1	9.4	9.8	34.9	19.2	56.0	46.0	21.1	26.8

--- L1 Phase ---

No.	Frequency [MHz]	Reading QP [dB(uV)]	Reading CAV [dB(uV)]	c. f [dB]	Result QP [dB(uV)]	Result CAV [dB(uV)]	Limit QP [dB(uV)]	Limit AV [dB(uV)]	Margin QP [dB]	Margin CAV [dB]
1	0.85232	27.2	5.0	9.8	37.0	14.8	56.0	46.0	19.0	31.2
2	0.96698	24.2	5.6	9.9	34.1	15.5	56.0	46.0	21.9	30.5
3	0.33314	24.2	5.6	9.8	34.0	15.4	59.4	49.4	25.4	34.0
4	15.09932	24.1	-0.8	10.2	34.3	9.4	60.0	50.0	25.7	40.6

Note1) Level (Quasi-Peak and/or C/Average) = Meter Reading + Factor

Note2) Line = Polarity of input power (Live or Neutral)

N: Abbreviation of Neutral Polarity, L1: Abbreviation of Live Polarity,

Note3) Factor = LISN Insertion Loss + Cable Loss

Note4) Margin = Limit - Level (Quasi-Peak and/or C/Average)

Note5) C/Average: Abbreviation of CISPR Average

8. Antenna Requirements

8.1. Limit

For intentional device, according to FCC 47 CFR Section 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.

8.2. Result

The antenna used for this product is PCB antenna and no antenna other than that furnished by the responsible party shall be used with the device.

9. Test Setup Photograph

Please find the detailed in APPENDIXES-Test Setup.

10. Photos of the EUT

Please find the photos of EUT in APPENDIXES-Photos.

END OF REPORT