

RF Test Report

For

Applicant name: Dongguan Chenxing Design Technology Co., Ltd.
Address: Room 305, No. 5 Lucheng West Road, Qingxi Town, Dongguan City, Guangdong Province.
EUT name: Portable Speaker
Brand name: KROCX
Model number: TRAVOR
Series model number: N/A
FCC ID: 2BCYG-TRAVOR

Issued By

Company name: BTF Testing Lab (Shenzhen) Co., Ltd.
Address: Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China

Report number: BTF260617R01402
Test standards: 47 CFR Part 15.247
Test conclusion: Pass

Date of sample receipt: 2026-06-17
Test date: 2026-06-17 to 2026-07-09
Date of issue: 2026-07-10

Prepared by:



Chris Liu / Project engineer

Approved by:



Ryan.CJ / EMC Manager

Note: All the test results in this report only related to the testing samples. Which can be duplicated completely for the legal use with approval of applicant; it shall not be reproduced except in full without the written approval of BTF Testing Lab (Shenzhen) Co., Ltd., All the objections should be raised within thirty days from the date of issue. To validate the report, you can contact us.

Revision History		
Version	Issue Date	Revisions Content
R_V0	2026-02-02	Original Report Number: BTF260122R01502
R_V0	2026-07-10	This report is a revision of the original report BTF260122R01502, incorporating the addition of the FX202U power adapter and changing the antenna type from PFC antenna to PCB antenna. These modifications affect electromagnetic compatibility data but do not impact RF radio frequency; therefore, no RF testing is required.
Note: <i>Once the revision has been made, then previous versions reports are invalid.</i>		

Table of Contents

1 Introduction	4
1.1 Laboratory Location	4
1.2 Laboratory Facility	4
1.3 Announcement	4
2 Product Information	5
2.1 Application Information	5
2.2 Manufacturer Information	5
2.3 Factory Information	5
2.4 General Description of Equipment under Test (EUT)	5
2.5 Technical Information	6
3 Summary of Test Results	7
3.1 Test Standards	7
3.2 Uncertainty of Test	7
3.3 Summary of Test Result	7
3.4 Additions to, deviations, or exclusions from the method	7
4 Test Configuration	8
4.1 Test Equipment List	8
4.2 Test Auxiliary Equipment	9
4.3 Test Modes	9
4.4 Test Channel of EUT	10
4.5 Test software	10
5 Evaluation Results (Evaluation)	11
5.1 Antenna requirement	11
5.1.1 Conclusion	11
6 Radio Spectrum Matter Test Results (RF)	12
6.1 Conducted Emission at AC power line	12
6.1.1 Test Data	13
6.2 Band edge emissions (Radiated)	17
6.2.1 Test Data	18
6.3 Emissions in frequency bands (below 1GHz)	19
6.3.1 Test Data	21
6.4 Emissions in frequency bands (above 1GHz)	25
6.4.1 Test Data	26
7 Test Setup Photos	28
8 EUT Constructional Details (EUT Photos)	28

1 Introduction

1.1 Laboratory Location

Test location:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China
Phone number:	+86-0755-23146130
Fax number:	+86-0755-23146130

1.2 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC - Designation No.: CN1409**
BTF Testing Lab (Shenzhen) Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The test firm Registration No. is 695374.
- **CNAS - Registration No.: CNAS L17568**
BTF Testing Lab (Shenzhen) Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L17568.
- **A2LA - Registration No.: 6660.01**
BTF Testing Lab (Shenzhen) Co., Ltd. is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.
- **ISED – CAB identifier.: CN0135**
The 3m Semi-anechoic chamber of BTF Testing Lab (Shenzhen) Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 27844.

1.3 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.
- (7) All entrusted information in this report is provided by the client and has been confirmed through consultation with the client; The testing items for this report have been discussed and confirmed with the client, and our company is only responsible for the content reflected in the report.

2 Product Information

2.1 Application Information

Company name:	Dongguan Chenxing Design Technology Co., Ltd.
Address:	Room 305, No. 5 Lucheng West Road, Qingxi Town, Dongguan City, Guangdong Province.

2.2 Manufacturer Information

Company name:	Dongguan Chenxing Design Technology Co., Ltd.
Address:	Room 305, No. 5 Lucheng West Road, Qingxi Town, Dongguan City, Guangdong Province.

2.3 Factory Information

Company name:	Shenzhen Common Endeavor Technology Co., Ltd
Address:	101, Building A, No. 34 Fengshun Road, Tongxin Community, Baolong Street, Longgang Shenzhen, Guangdong Sheng, China

2.4 General Description of Equipment under Test (EUT)

EUT name:	Portable Speaker
Under test model name:	TRAVOR
Series model name:	N/A
Description of model name differentiation:	N/A
Ratings:	Input: 5V===3A/9V===2.22A/12V===1.67A. Battery: 7.2V 4500mAh 32.4Wh Adapter 1: Model: XED-ULPD20W Input: AC 100-240V~50/60Hz 0.6A(MAX) Type C Output: DC 5V===3A/9V===2.22A/12V===1.67A.(20W Max) Adapter 2: Model: FX202U Input: 100-240V~50/60Hz 0.7A USB-C: 5V===3A 9V===2.22A 12V===1.67A. 20W Max

2.5 Technical Information

Operation Frequency:	2402MHz to 2480MHz
Channel numbers:	40
Channel separation:	2MHz
Modulation technology:	GFSK
Max. Peak Conducted Output Power:	2.31dBm
Antenna type:	Internal Antenna
Antenna gain:	1.08dBi (declare by Applicant)

Channel List:

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

3 Summary of Test Results

3.1 Test Standards

The tests were performed according to following standards:

47 CFR Part 15.247: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

ANSI C63.10-2020+C63.10a-2024: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

KDB 558074 D01 15.247 Meas Guidance v05r02: Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating Under Section 15.247 of The FCC Rules.

3.2 Uncertainty of Test

Measurement	Value
Conducted Emission for LISN (150kHz ~ 30MHz)	±2.45 dB
Radiated Emission(1GHz~18GHz)	±4.80 dB
Radiated Emission(9kHz~30MHz)	±2.20 dB
Radiated Emission(30MHz~1GHz)	±4.94 dB
Radiated Emission (18GHz ~ 40GHz)	±5.08dB
The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3.3 Summary of Test Result

Item	Standard	Requirement	Result
Antenna requirement	47 CFR Part 15.247	47 CFR 15.203	Pass
Conducted Emission at AC power line	47 CFR Part 15.247	47 CFR 15.207(a)	Pass
Band edge emissions (Radiated)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass
Emissions in frequency bands (below 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass
Emissions in frequency bands (above 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass
Remark: 1. Pass: Meet the requirements. 2. N/A: not applicable.			

3.4 Additions to, deviations, or exclusions from the method

None

4 Test Configuration

4.1 Test Equipment List

Conducted Emission at AC power line					
Test Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Test Software	Frad	EZ EMC	Version: EMC-CON 3A1.1+	/	/
EMI Receiver	Rohde & Schwarz	ESCI3	101422	2025-10-17	2026-10-16
V-LISN	Schwarzbeck	NSLK 8127	01073	2025-08-23	2026-08-22
Coaxial Switcher	Schwarzbeck	CX210	CX210	/	/
Pulse Limiter	Schwarzbeck	VTSD 9561-F	00953	/	/
LISN-Cable	REBES Talent	LISN9K30M	21101580	2025-08-23	2026-08-22

Dwell Time Emissions in non-restricted frequency bands 20dB Bandwidth Maximum Conducted Output Power Channel Separation Number of Hopping Frequencies					
Test Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Test Software	TST Pass	/	Version: 2.0	/	/
Cell Site Test Set	HP	8921A	US35010158	2025-10-17	2026-10-16
Spectrum Analyzer	Keysight	N9020A	MY50410020	2025-10-17	2026-10-16
ESG Vector Signal Generator	Agilent	E4438C	MY45094854	2025-10-17	2026-10-16
MXG Vector Signal Generator	Agilent	N5182A	MY46240163	2025-10-17	2026-10-16
Wideband Radio Communication Tester	Rohde&Schwarz	CMW500	161997	2025-10-17	2026-10-16
Programmable Constant Temperature And Humidity Test Chamber	ZZCKONG	ZZ-K02A	20210928007	2025-10-17	2026-10-16
DC Power Supply	Tongmen	etm-6050c	20211026123	2025-10-17	2026-10-16
RF Control Unit	Techy	TR1029-1	10291	2025-10-17	2026-10-16
RF Sensor Unit	Techy	TR1029-2	10292	2025-10-17	2026-10-16
RF shielding box	Yinuoxin Electronics	50*50*50 cm	050505M	2025-10-21	2026-10-20

Band edge emissions (Radiated) Emissions in frequency bands (below 1GHz) Emissions in frequency bands (above 1GHz)					
Test Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Test Software	Frad	EZ_EMC	Version: FA-03A2 RE+	/	/
EMI Receiver	Rohde & Schwarz	ESCI7	101032	2025-10-17	2026-10-16
Signal Analyzer	Rohde & Schwarz	FSQ40	100010	2025-10-17	2026-10-16
Log periodic antenna	Schwarzbeck	VULB 9168	01328	2025-10-18	2026-10-17
Preamplifier (9kHz ~ 6GHz)	Schwarzbeck	BBV9744	00246	2026-05-10	2027-05-09
BELOW-Cable	REBES Talent	9K1G	21101576	2025-08-23	2026-08-22
Horn Antenna	Schwarzbeck	BBHA9120D	2597	2025-10-18	2026-10-17
Preamplifier (1GHz ~ 18GHz)	Schwarzbeck	BBV9718D	00008	2025-10-18	2026-10-17
Preamplifier	TSTPASS	LNA10180G45	TS2215007	2026-05-10	2027-05-09
ABOVE-Cable	REBES Talent	1~18G	21101558	2025-08-23	2026-08-22
Horn Antenna	SCHWARZBECK	BBHA9170	1157	2025-10-18	2026-10-17
Low Noise Pre-amplifier	Sket	LNPA_1840G-50	SK2022032902	2025-10-17	2026-10-16
ABOVE-Cable2	REBES Talent	18~40G	21101686	2025-08-23	2026-08-22
ABOVE-Cable1	REBES Talent	18~40G	21101687	2025-08-23	2026-08-22
Loop Antenna	SCHWARZBECK	FMZB 1519 B	00059	2025-06-25	2027-06-24
Filter	COM-MW	ZBSF6-M2400-248 3.5-2990	08226825	2025-10-18	2026-10-17

4.2 Test Auxiliary Equipment

The EUT has been tested as an independent unit.

4.3 Test Modes

No.	Test Modes
TM1	TX mode 1M
TM2	TX mode 2M

4.4 Test Channel of EUT

Operation Band: 2400-2483.5 MHz

Bandwidth (MHz)	Lowest Channel (LCH) (MHz)	Middle Channel (MCH) (MHz)	Highest Channel (HCH) (MHz)
1	2402	2440	2480
2	2402	2440	2480

4.5 Test software

Test software:	Version:	Power Class:
FCC.exe	V3.01	64

5 Evaluation Results (Evaluation)

5.1 Antenna requirement

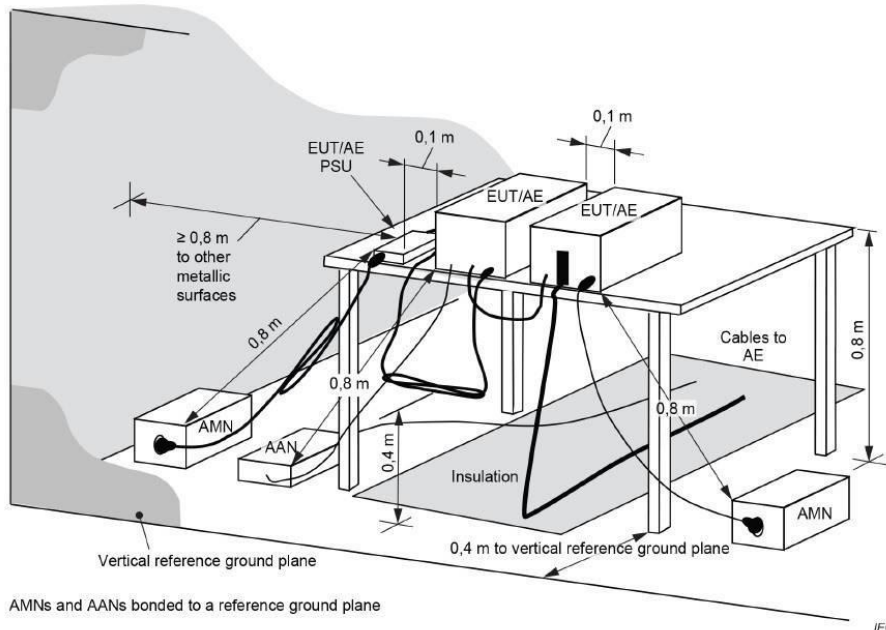
Test Requirement:	Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.
Test Method:	---
Operating Environment:	
Temperature:	22.4 °C
Humidity:	52.1 %
Atmospheric Pressure:	1010 mbar
Test voltage:	DC 7.2V From Battery

5.1.1 Conclusion

The Bluetooth antenna is an PCB antenna which permanently attached, and the best case gain of the antenna is 1.08dBi. See product internal photos for details.

6 Radio Spectrum Matter Test Results (RF)

6.1 Conducted Emission at AC power line

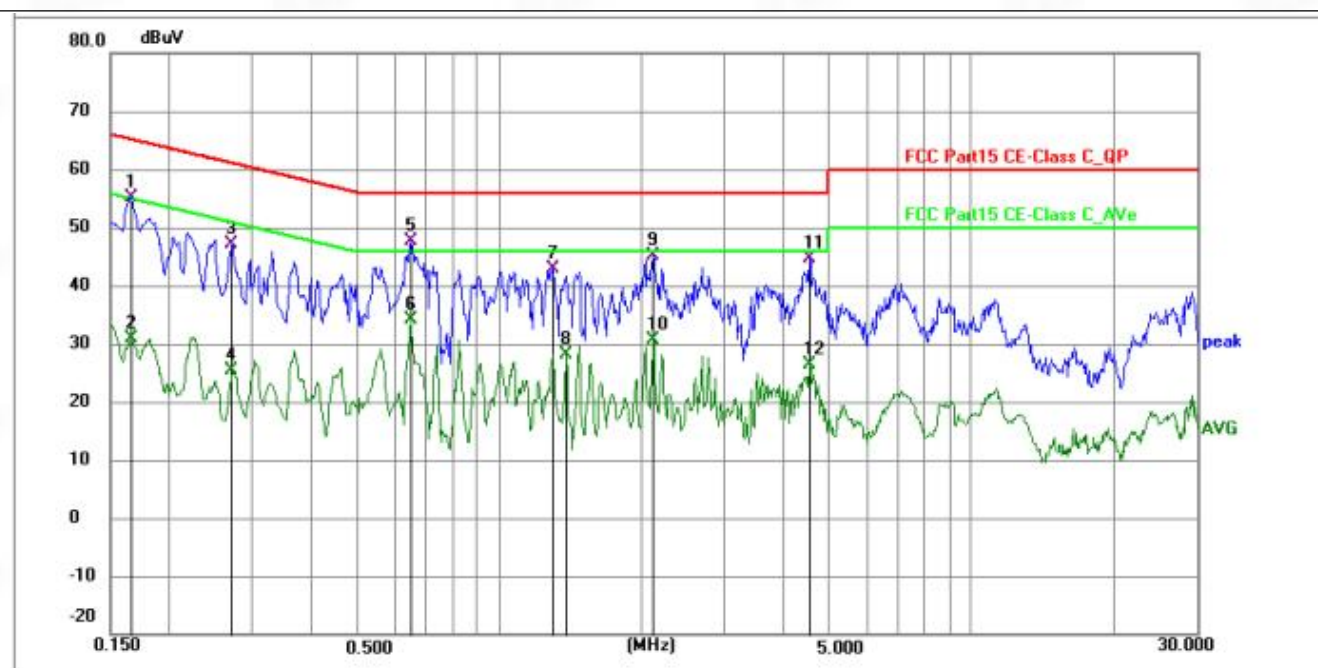
Test Requirement:	Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μH/50 ohms line impedance stabilization network (LISN).		
Test Method:	ANSI C63.10-2020+C63.10a-2024 section 6.2		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dBμV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
*Decreases with the logarithm of the frequency.			
Procedure:	Refer to ANSI C63.10-2020+C63.10a-2024 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices		
Test Setup:			
Operating Environment:			
Temperature:	24.4 °C		
Humidity:	53.9 %		
Atmospheric Pressure:	1010 mbar		
Test voltage:	DC 7.2V From Battery		

6.1.1 Test Data

Remark: The report only reflects the test data of worst mode TM1.

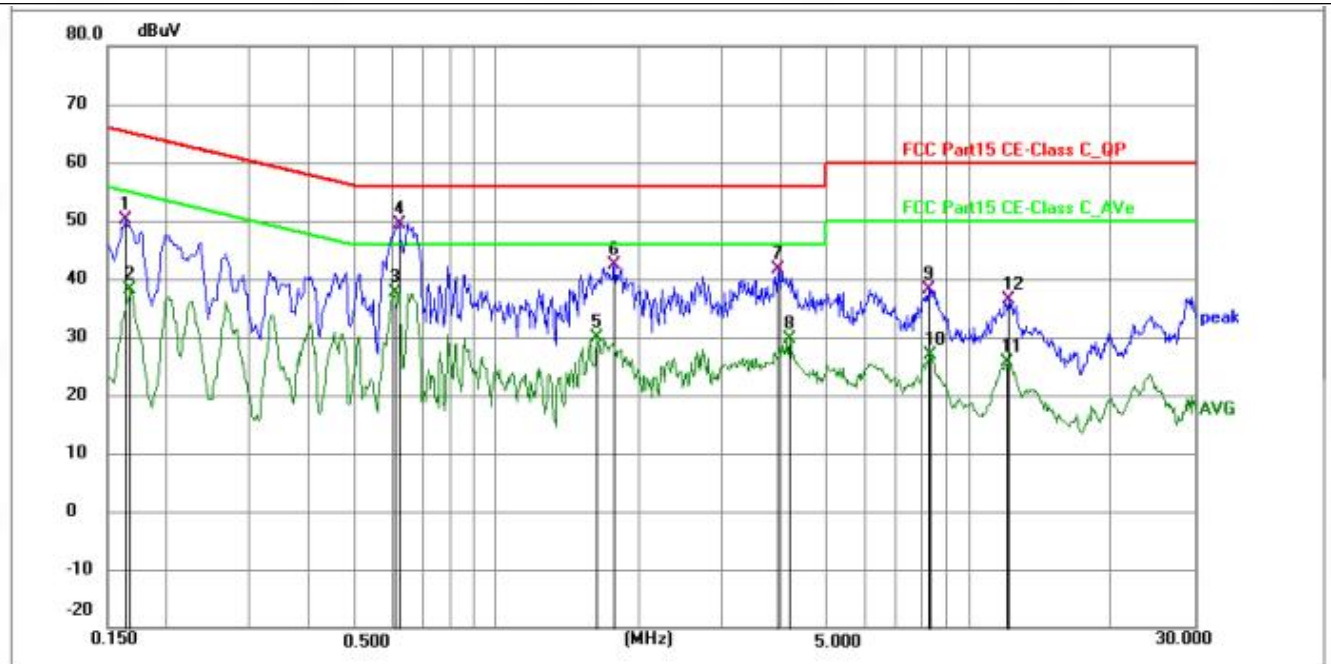
Adapter1: XED-ULPD20W

TM1 / Line: Line / Band: 2400-2483.5 MHz / BW: 1 / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1658	44.86	10.20	55.06	65.17	-10.11	QP	P	
2	0.1658	20.74	10.20	30.94	55.17	-24.23	AVG	P	
3	0.2714	37.13	10.09	47.22	61.07	-13.85	QP	P	
4	0.2714	15.37	10.09	25.46	51.07	-25.61	AVG	P	
5 *	0.6491	37.42	10.17	47.59	56.00	-8.41	QP	P	
6	0.6491	23.96	10.17	34.13	46.00	-11.87	AVG	P	
7	1.2975	32.64	10.19	42.83	56.00	-13.17	QP	P	
8	1.3871	18.00	10.21	28.21	46.00	-17.79	AVG	P	
9	2.1210	34.74	10.27	45.01	56.00	-10.99	QP	P	
10	2.1210	20.47	10.27	30.74	46.00	-15.26	AVG	P	
11	4.5464	34.41	10.29	44.70	56.00	-11.30	QP	P	
12	4.5464	16.19	10.29	26.48	46.00	-19.52	AVG	P	

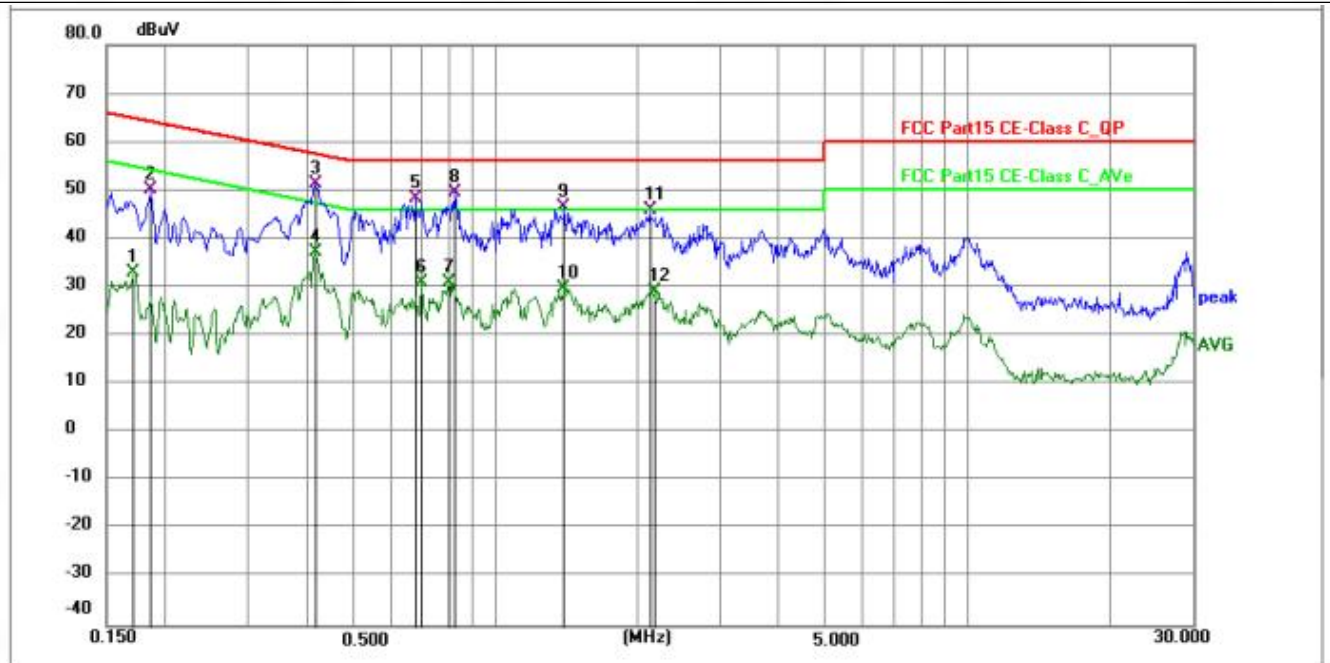
TM1 / Line: Neutral / Band: 2400-2483.5 MHz / BW: 1 / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1635	40.01	10.11	50.12	65.28	-15.16	QP	P	
2	0.1675	28.14	10.11	38.25	55.08	-16.83	AVG	P	
3	0.6090	27.50	10.15	37.65	46.00	-8.35	AVG	P	
4 *	0.6225	39.21	10.15	49.36	56.00	-6.64	QP	P	
5	1.6350	19.61	10.19	29.80	46.00	-16.20	AVG	P	
6	1.7742	32.17	10.21	42.38	56.00	-13.62	QP	P	
7	3.9615	31.22	10.29	41.51	56.00	-14.49	QP	P	
8	4.1730	19.29	10.29	29.58	46.00	-16.42	AVG	P	
9	8.2140	27.66	10.45	38.11	60.00	-21.89	QP	P	
10	8.2903	16.54	10.45	26.99	50.00	-23.01	AVG	P	
11	12.0659	14.90	10.63	25.53	50.00	-24.47	AVG	P	
12	12.1241	25.65	10.63	36.28	60.00	-23.72	QP	P	

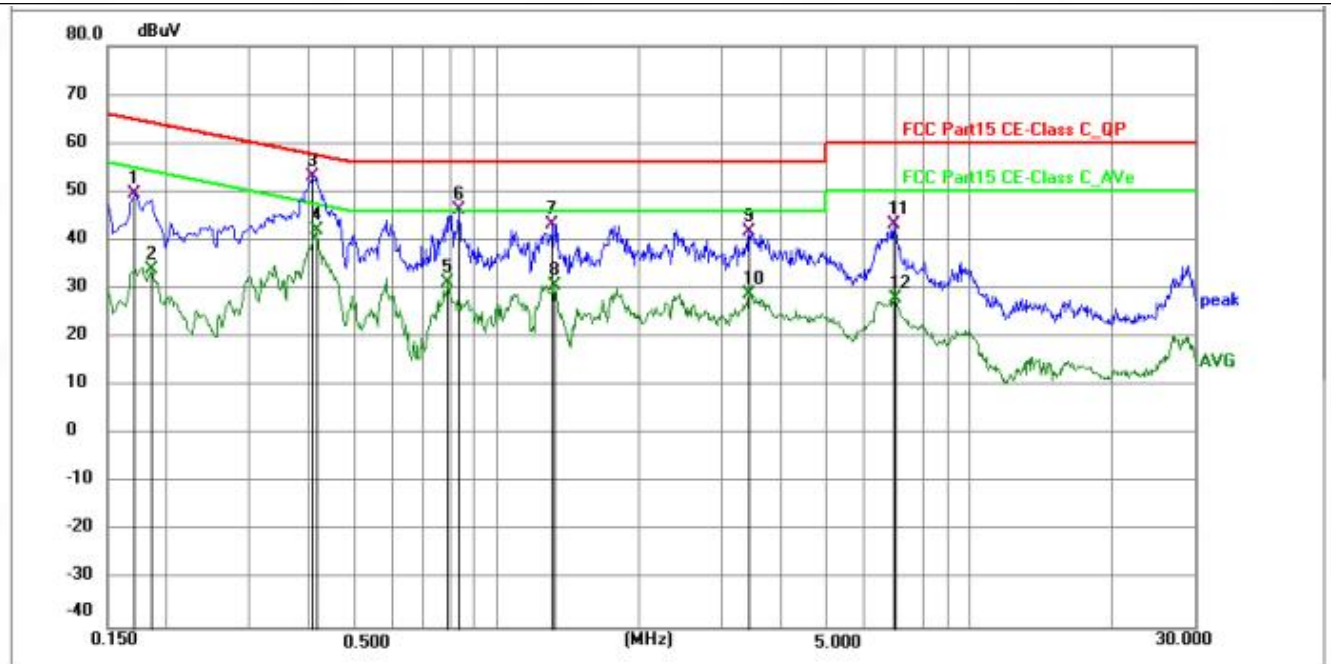
Adapter2: FX202U

TM1 / Line: Line / Band: 2400-2483.5 MHz / BW: 1 / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1720	22.75	10.21	32.96	54.86	-21.90	AVG	P	
2	0.1860	40.06	10.18	50.24	64.21	-13.97	QP	P	
3 *	0.4153	41.38	10.09	51.47	57.54	-6.07	QP	P	
4	0.4153	27.21	10.09	37.30	47.54	-10.24	AVG	P	
5	0.6764	38.06	10.19	48.25	56.00	-7.75	QP	P	
6	0.6990	20.62	10.21	30.83	46.00	-15.17	AVG	P	
7	0.7980	20.86	10.09	30.95	46.00	-15.05	AVG	P	
8	0.8205	39.48	10.09	49.57	56.00	-6.43	QP	P	
9	1.4010	36.38	10.21	46.59	56.00	-9.41	QP	P	
10	1.4010	19.39	10.21	29.60	46.00	-16.40	AVG	P	
11	2.1255	35.59	10.26	45.85	56.00	-10.15	QP	P	
12	2.1750	18.98	10.26	29.24	46.00	-16.76	AVG	P	

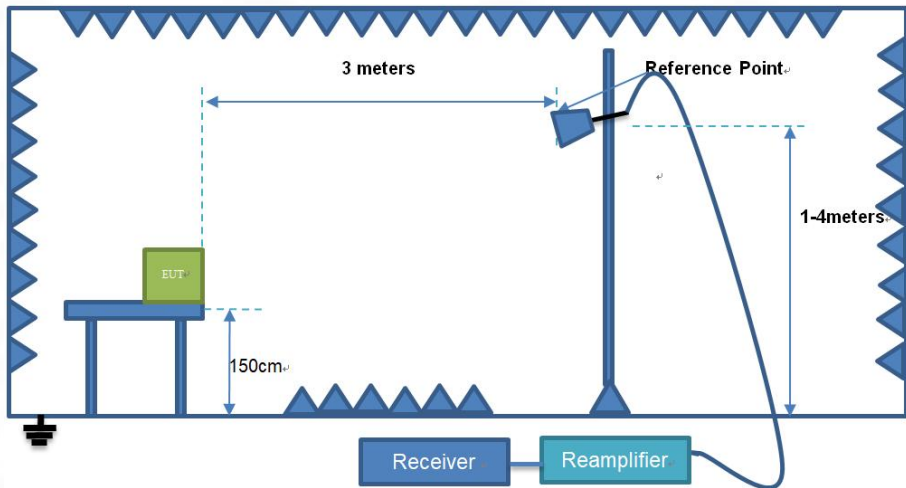
TM1 / Line: Neutral / Band: 2400-2483.5 MHz / BW: 1 / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1720	39.53	10.11	49.64	64.86	-15.22	QP	P	
2	0.1860	23.89	10.12	34.01	54.21	-20.20	AVG	P	
3 *	0.4061	43.03	10.12	53.15	57.73	-4.58	QP	P	
4	0.4148	31.95	10.13	42.08	47.55	-5.47	AVG	P	
5	0.7890	21.08	10.15	31.23	46.00	-14.77	AVG	P	
6	0.8340	36.07	10.15	46.22	56.00	-9.78	QP	P	
7	1.3110	33.19	10.18	43.37	56.00	-12.63	QP	P	
8	1.3245	20.62	10.18	30.80	46.00	-15.20	AVG	P	
9	3.4260	31.54	10.26	41.80	56.00	-14.20	QP	P	
10	3.4260	18.58	10.26	28.84	46.00	-17.16	AVG	P	
11	6.9225	32.88	10.40	43.28	60.00	-16.72	QP	P	
12	7.0080	17.60	10.40	28.00	50.00	-22.00	AVG	P	

Note:Margin=Level-Limit=Reading+factor-Limit=Reading+LISN+Cable loss-Limit

6.2 Band edge emissions (Radiated)

Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).		
Test Method:	ANSI C63.10-2020+C63.10a-2024 section 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
	** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.		
Procedure:	ANSI C63.10-2020 section 6.10.5.2		
Test Setup:			
Operating Environment:			
Temperature:	23.9 °C		
Humidity:	52 %		
Atmospheric Pressure:	1010 mbar		
Test voltage:	DC 7.2V From Battery		

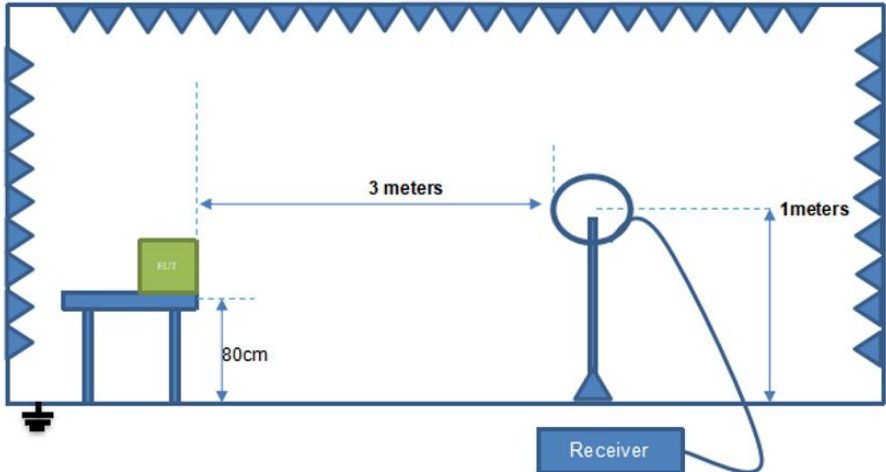
6.2.1 Test Data

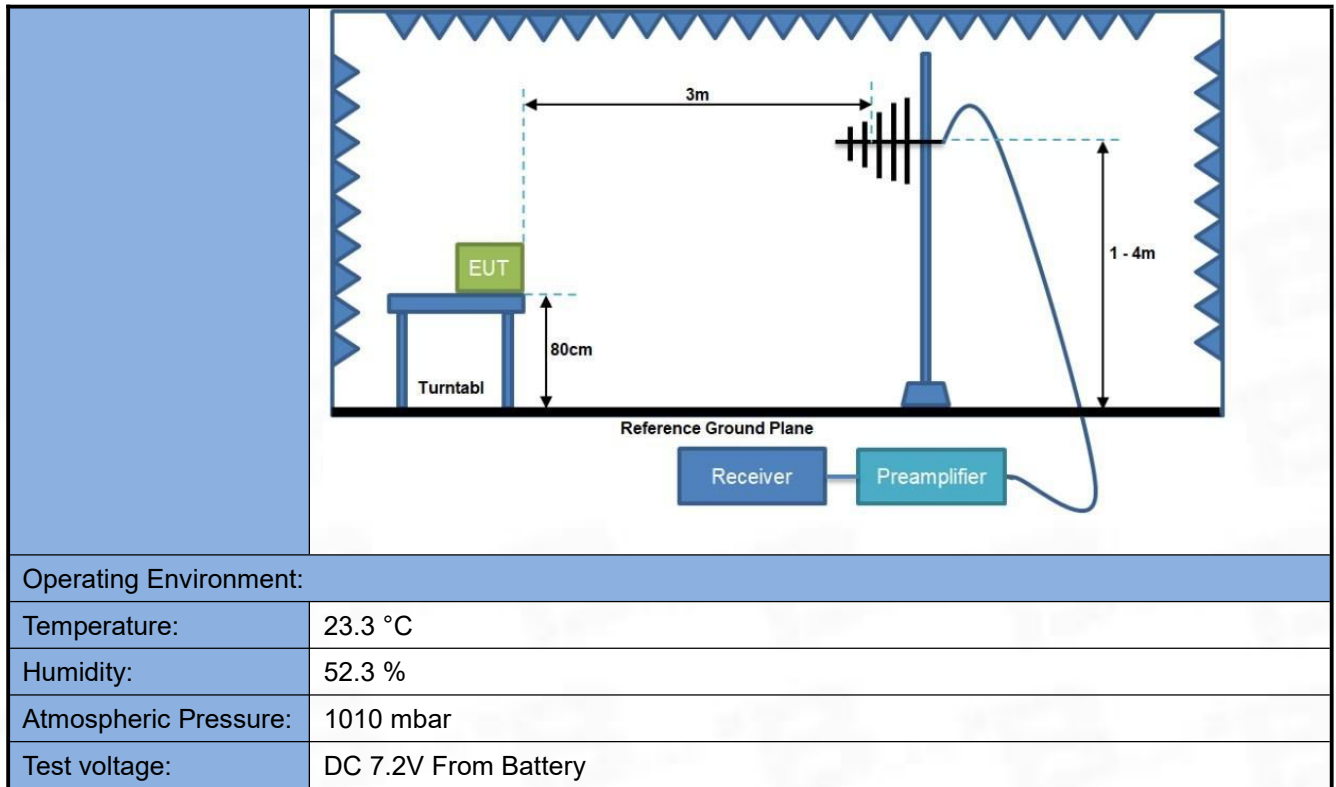
Remark: The report only reflects the test data of worst mode TM1.

Test Channel: Lowest channel, Test Polarization: Vertical							
Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Marging (dB)	Detector	Result
2310.00	51.50	3.85	55.35	74.00	-18.65	Peak	Pass
2310.00	40.59	3.85	44.44	54.00	-9.56	AVG	Pass
2390.00	51.81	3.91	55.72	74.00	-18.28	Peak	Pass
2390.00	41.73	3.91	45.65	54.00	-8.35	AVG	Pass
Test Channel: Lowest channel, Test Polarization: Horizontal							
Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Marging (dB)	Detector	Result
2310.00	51.11	3.85	54.96	74.00	-19.04	Peak	Pass
2310.00	40.12	3.85	43.97	54.00	-10.03	AVG	Pass
2390.00	51.20	3.91	55.11	74.00	-18.89	Peak	Pass
2390.00	40.63	3.91	44.54	54.00	-9.46	AVG	Pass
Test Channel: Highest channel, Test Polarization: Vertical							
Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Marging (dB)	Detector	Result
2483.50	52.02	3.99	56.01	74.00	-17.99	Peak	Pass
2483.50	41.10	3.99	45.09	54.00	-8.91	AVG	Pass
2500.00	51.19	4.00	55.19	74.00	-18.81	Peak	Pass
2500.00	40.32	4.00	44.32	54.00	-9.68	AVG	Pass
Test Channel: Highest channel, Test Polarization: Horizontal							
Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Marging (dB)	Detector	Result
2483.50	52.31	3.99	56.30	74.00	-17.70	Peak	Pass
2483.50	41.95	3.99	45.94	54.00	-8.06	AVG	Pass
2500.00	52.25	4.00	56.25	74.00	-17.75	Peak	Pass
2500.00	41.37	4.00	45.37	54.00	-8.63	AVG	Pass

Note:Margin=Level-Limit=Reading+factor-Limit=Reading+Antenna factor+ cable loss -Limit

6.3 Emissions in frequency bands (below 1GHz)

Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).		
Test Method:	ANSI C63.10-2020+C63.10a-2024 section 6.5.4 KDB 558074 D01 15.247 Meas Guidance v05r02		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
	** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.		
Procedure:	ANSI C63.10-2020+C63.10a-2024 section 6.5.4		
Test Setup:			



6.3.1 Test Data

Remark: The report only reflects the test data of worst mode (TM1)
(9KHz-30 MHz)

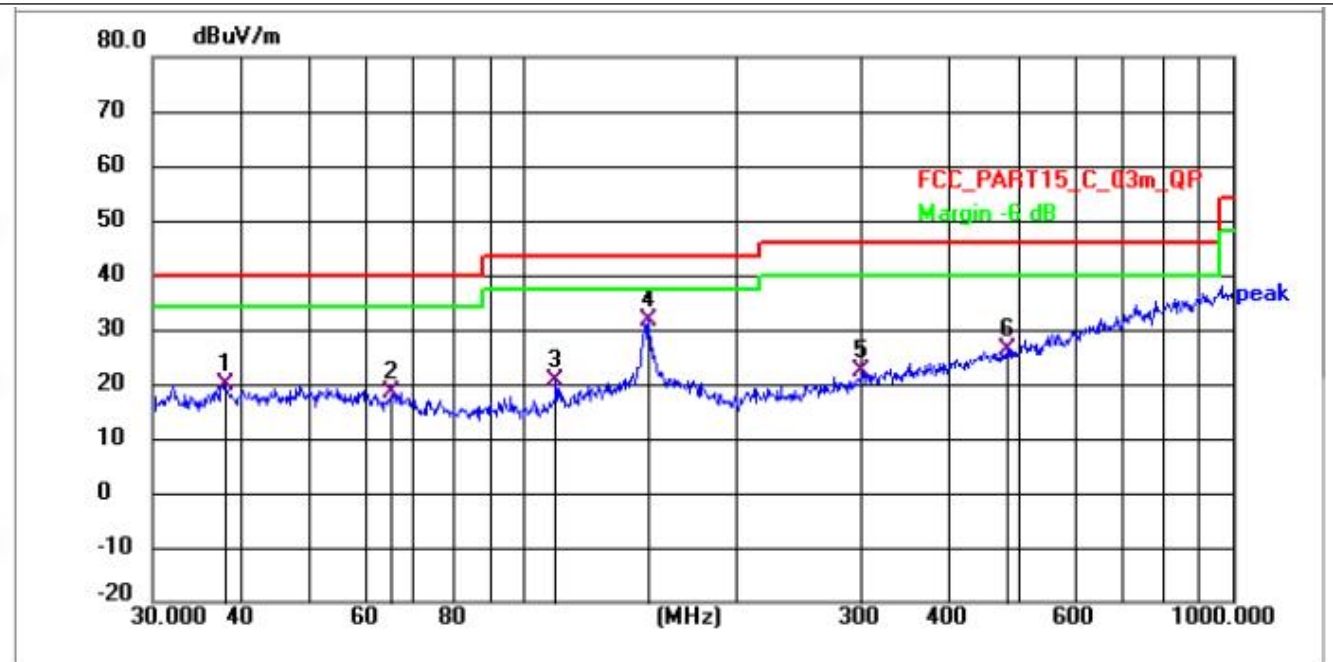
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log(\text{specific distance/test distance})(\text{dB})$;

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

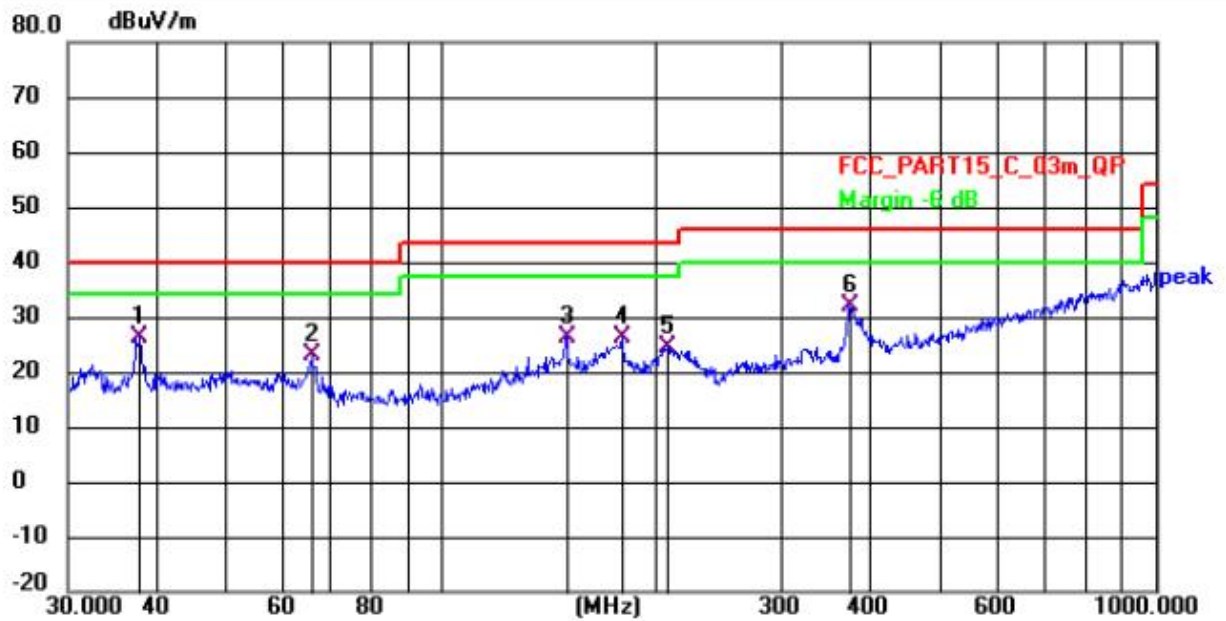
Adapter1: XED-ULPD20W

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	38.0115	29.56	-9.61	19.95	40.00	-20.05	QP	Pass
2	65.4579	29.39	-11.07	18.32	40.00	-21.68	QP	Pass
3	110.5687	30.67	-10.25	20.42	43.50	-23.08	QP	Pass
4 *	149.7480	40.15	-8.44	31.71	43.50	-11.79	QP	Pass
5	300.8943	28.93	-6.67	22.26	46.00	-23.74	QP	Pass
6	480.5276	27.89	-1.76	26.13	46.00	-19.87	QP	Pass

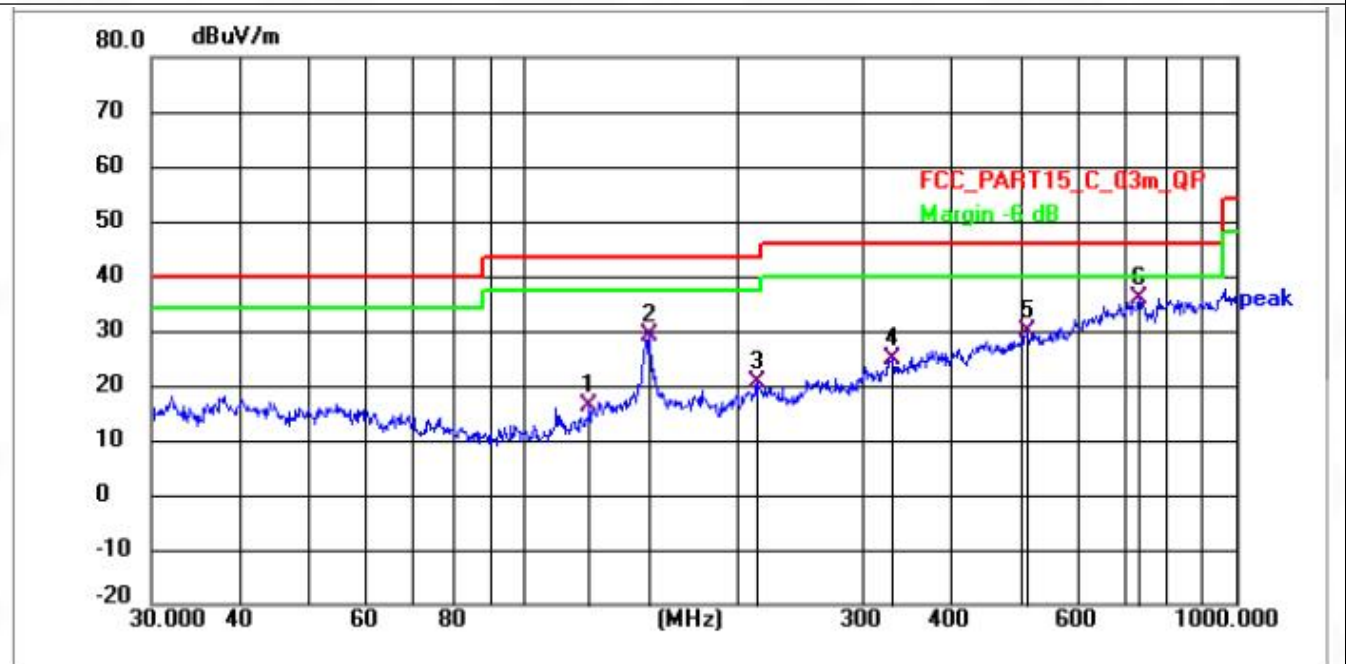
TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	37.7460	35.85	-9.59	26.26	40.00	-13.74	QP	Pass
2	65.6877	34.13	-11.05	23.08	40.00	-16.92	QP	Pass
3	149.7480	34.59	-8.44	26.15	43.50	-17.35	QP	Pass
4	179.0721	35.68	-9.42	26.26	43.50	-17.24	QP	Pass
5	207.4860	34.35	-9.92	24.43	43.50	-19.07	QP	Pass
6	375.9385	36.94	-5.02	31.92	46.00	-14.08	QP	Pass

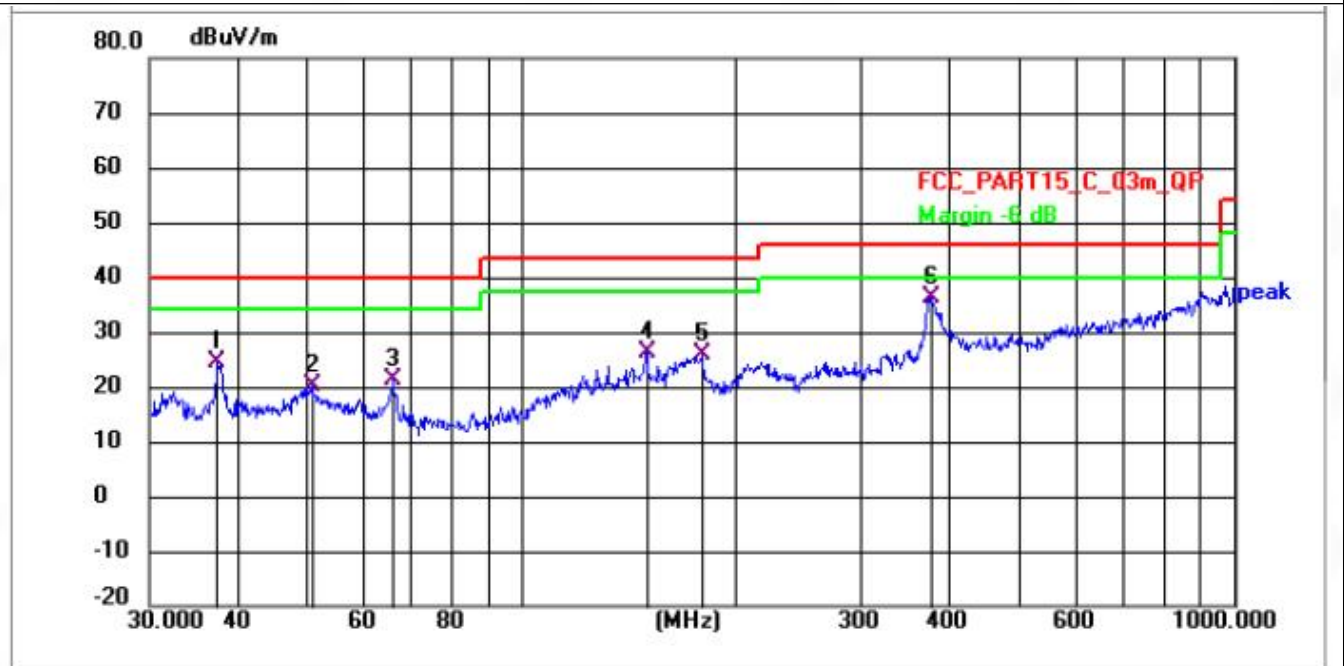
Adapter2: FX202U

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	123.6984	25.83	-9.49	16.34	43.50	-27.16	QP	Pass
2	149.7480	37.66	-8.45	29.21	43.50	-14.29	QP	Pass
3	212.2692	30.64	-10.17	20.47	43.50	-23.03	QP	Pass
4	329.6162	30.69	-5.93	24.76	46.00	-21.24	QP	Pass
5	509.1501	31.39	-1.40	29.99	46.00	-16.01	QP	Pass
6 *	730.6381	31.33	4.57	35.90	46.00	-10.10	QP	Pass

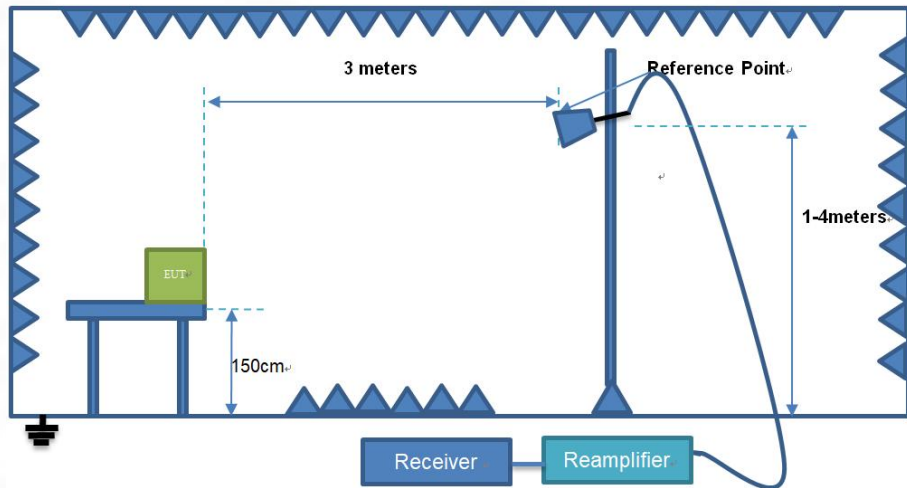
TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	37.3510	33.95	-9.59	24.36	40.00	-15.64	QP	Pass
2	50.6747	29.54	-9.51	20.03	40.00	-19.97	QP	Pass
3	65.6877	32.13	-11.05	21.08	40.00	-18.92	QP	Pass
4	149.7480	34.60	-8.45	26.15	43.50	-17.35	QP	Pass
5	179.0721	35.18	-9.42	25.76	43.50	-17.74	QP	Pass
6 *	375.9384	41.44	-5.02	36.42	46.00	-9.58	QP	Pass

Note:Margin=Level-Limit=Reading+factor-Limit=Reading+Antenna factor+ cable loss -amplifier gain-Limit

6.4 Emissions in frequency bands (above 1GHz)

Test Requirement:	Refer to 47 CFR 15.247(d), in addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).		
Test Method:	ANSI C63.10-2020+C63.10a-2024 section 6.5.4 KDB 558074 D01 15.247 Meas Guidance v05r02		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
	** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.		
Procedure:	ANSI C63.10-2020+C63.10a-2024 section 6.5.4		
Test Setup:			
Operating Environment:			
Temperature:	24.3 °C		
Humidity:	53.7 %		
Atmospheric Pressure:	1010 mbar		
Test voltage:	DC 7.2V From Battery		

6.4.1 Test Data

Remark: The report only reflects the test data of worst mode TM1.

Test Channel: Lowest channel, Test Polarization: Vertical							
Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Marging (dB)	Detector	Result
4804.00	97.90	-48.89	49.02	74.00	-24.98	Peak	Pass
4804.00	87.89	-48.89	39.01	54.00	-14.99	AVG	Pass
7206.00	95.01	-47.02	47.98	74.00	-26.02	Peak	Pass
7206.00	85.35	-47.02	38.32	54.00	-15.68	AVG	Pass
Test Channel: Lowest channel, Test Polarization: Horizontal							
Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Marging (dB)	Detector	Result
4804.00	99.36	-48.89	50.48	74.00	-23.52	Peak	Pass
4804.00	89.24	-48.89	40.35	54.00	-13.65	AVG	Pass
7206.00	95.52	-47.02	48.50	74.00	-25.50	Peak	Pass
7206.00	84.97	-47.02	37.95	54.00	-16.05	AVG	Pass
Test Channel: Middle channel, Test Polarization: Vertical							
Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Marging (dB)	Detector	Result
4880.00	99.00	-48.84	50.17	74.00	-23.83	Peak	Pass
4880.00	89.37	-48.84	40.53	54.00	-13.47	AVG	Pass
7320.00	96.48	-46.89	49.59	74.00	-24.41	Peak	Pass
7320.00	86.48	-46.89	39.59	54.00	-14.41	AVG	Pass
Test Channel: Middle channel, Test Polarization: Horizontal							
Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Marging (dB)	Detector	Result
4880.00	99.23	-48.84	50.39	74.00	-23.61	Peak	Pass
4880.00	88.80	-48.84	39.96	54.00	-14.04	AVG	Pass
7320.00	95.33	-46.89	48.44	74.00	-25.56	Peak	Pass
7320.00	84.78	-46.89	37.89	54.00	-16.11	AVG	Pass

Test Channel: Highest channel, Test Polarization: Vertical							
Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Marging (dB)	Detector	Result
4960.00	99.55	-48.79	50.77	74.00	-23.23	Peak	Pass
4960.00	89.78	-48.79	40.99	54.00	-13.01	AVG	Pass
7440.00	96.03	-46.74	49.29	74.00	-24.71	Peak	Pass
7440.00	85.35	-46.74	38.60	54.00	-15.40	AVG	Pass
Test Channel: Highest channel, Test Polarization: Horizontal							
Frequency (MHz)	Reading (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Marging (dB)	Detector	Result
4960.00	99.69	-48.79	50.91	74.00	-23.09	Peak	Pass
4960.00	89.12	-48.79	40.33	54.00	-13.67	AVG	Pass
7440.00	95.55	-46.74	48.81	74.00	-25.19	Peak	Pass
7440.00	85.80	-46.74	39.05	54.00	-14.95	AVG	Pass

Note:Margin=Level-Limit=Reading+factor-Limit=Reading+Antenna factor+ cable loss -amplifier gain-Limit

7 Test Setup Photos

Please refer to Appendix I Test Setup Photos.

8 EUT Constructional Details (EUT Photos)

Please refer to Appendix II External Photos and Appendix III Internal Photos.



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-- END OF REPORT --