# **EMC TEST REPORT**

FCC ID: 2AUHG-FM-BO5C

**Report No.** : SSP24040121-1E

**Applicant** : Artika for Living Inc

**Product Name** : Boden FM Black & Wood 5CCT

**Model Name**: FM-B05C-HD2BW

**Test Standard** : FCC Part 15 Subpart B

**Date of Issue** : 2024-04-28



### Shenzhen CCUT Quality Technology Co., Ltd.

1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China; (Tel.:+86-755-23406590 website: www.ccuttest.com)

This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.

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### **Test Report Basic Information**

Artika for Living Inc Applicant..... 1756, 50th Avenue LachineQC H8T2V5 Canada Address of Applicant....: Foshan Topday Optoelectronics Technology Co., Ltd. Manufacturer....: Huansheng Road, Guicheng Eastern ndustrial Zone BSanshan Nanhai District Address of Manufacturer....: Foshan China Boden FM Black & Wood 5CCT Product Name....: artika Brand Name..... FM-BO5C-HD2BW Main Model..... FM-B05C-XXXXXX, CML15-668 Series Models..... FCC Part 15 Subpart B **Test Standard**...... ANSI C63.4-2014 Date of Test .....: 2024-04-16 to 2024-04-17 Test Result...... PASS

Reviewed By Lahn Peng (1) (Choco Qiu)

(Lieber Ouyang)

Authorized Signatory..... (Lahm Peng)

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# **Revision History**

Revision	Issue Date	Description	Revised By
V1.0	2024-04-28	Initial Release	Lahm Peng

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## 1. General Information

### 1.1 Product Information

Product Name:	Boden FM Black & Wood 5CCT					
Trade Name:	artika					
Main Model:	FM-B05C-HD2BW					
Series Models:	FM-B05C-XXXXXX, CML15-668					
Class of Equipment:	☐ Class A ☐ Class B					
Highest Internal Frequency:	<108MHz					
Rated Voltage:	Input: AC 120V/60Hz 30W, Output: 135V=0.175A					
Note 1: The test data is gathered from a production sample, provided by the manufacturer.						
Note 2: The color of appearance and model name of series models listed are different from the main model,						
but the circuit and the electron	but the circuit and the electronic construction are the same, declared by the manufacturer, The suffix					

"XXXXXX" can be A to Z and/or 0 to 9 and/or blank denotes commercial code.

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### 1.2 Test Setup Information

List of Test Mo	odes								
Test Mode	De	escription		Remark					
TM1	I	Working		AC 120V/6	0Hz				
TM2		-		-					
TM3		-		-					
TM4		-		-					
List and Detai	ls of Auxiliary	y Cable							
Descrij	escription Length (cm)			Shielded/Unshielded	With/Without Ferrite				
-		-		-	-				
-		-		-	-				
-		-		-	-				
List and Detai	ls of Auxiliary	y Equipment							
Descrij	ption	Manufacture	r	Model	Serial Number				
-				-	-				
-		-		-	-				
-									
The equipment under test (EUT) was configured to measure its highest possible emission and immunity level.									

The equipment under test (EUT) was configured to measure its highest possible emission and immunity level. The test modes were adapted according to the operation manual for use.

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### 1.3 Compliance Standards

Compliance Standards	
ECC Don't 15 Cubnowt D	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES,
FCC Part 15 Subpart B	Unintentional Radiators
All measurements contained i	n this report were conducted with all above standards
According to standards for	test methodology
ECC Dout 15 Culmont D	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES,
FCC Part 15 Subpart B	Unintentional Radiators
	American National Standard for Methods of Measurement of Radio-Noise Emissions
ANSI C63.4-2014	from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40
	GHz.
Maintenance of compliance is	the responsibility of the manufacturer or applicant. Any modification of the product, which
result is lowering the emission	n, should be checked to ensure compliance has been maintained.

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### 1.4 Test Facilities

Shenzhen CCUT Quality Technology Co., Ltd.							
1F, Building 35, Changxing Technology Industrial Park, Yutang Street,							
Guangming District, Shenzhen, Guangdong, China							
L18863							
6893.01							
583813							
CN0164							

All measurement facilities used to collect the measurement data are located at 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China.

### 1.5 Measurement Uncertainty

Test Item	Conditions	Uncertainty
Conducted Disturbance	9kHz~30MHz	±1.64 dB
Radiated Disturbance	30MHz ∼ 1GHz	±3.32 dB
Radiated Disturbance	1GHz ∼ 18GHz	±3.50 dB

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### 1.6 List of Test and Measurement Instruments

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date						
	Conducted Emissions										
AMN ROHDE&SCHWARZ ENV216 101097 2023-10-21 2024-10-3											
EMI Test Receiver	ROHDE&SCHWARZ	ESPI	100242	2023-07-31	2024-07-30						
EMI Test Software	FARA	EZ-EMC	EMEC-3A1+	N/A	N/A						
		Radiated Emission	ons								
EMI Test Receiver	ROHDE&SCHWARZ	ESPI	100154	2023-07-31	2024-07-30						
Spectrum Analyzer	KEYSIGHT	N9020A	MY48030972	2023-07-31	2024-07-30						
Amplifier	SCHWARZBECK	BBV 9743B	00251	2023-07-31	2024-07-30						
Amplifier	HUABO	YXL0518-2.5-45		2023-07-31	2024-07-30						
Loop Antenna	DAZE	ZN30900C	21104	2023-08-07	2024-08-06						
Broadband Antenna	SCHWARZBECK	VULB 9168	01320	2023-08-07	2024-08-06						
Horn Antenna	SCHWARZBECK	BBHA 9120D	02553	2023-08-07	2024-08-06						
EMI Test Software	FARA	EZ-EMC	FA-03A2 RE+	N/A	N/A						

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FCC Rule	Description of Test Item	Result
FCC Part 15.107	Conducted Emissions	Passed
FCC Part 15.109	Radiated Emissions	Passed

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Passed: The EUT complies with the essential requirements in the standard

Failed: The EUT does not comply with the essential requirements in the standard

N/A: Not applicable

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### 3. Conducted Emissions

### 3.1 Standard and Limit

According to the rule FCC Part 15.107, Conducted limit, the limit for a class A and class B device as below:

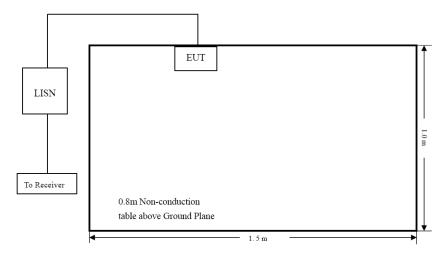
Frequency of Emission	Class A	(dBuV)	Class B (dBuV)			
(MHz)	Quasi-peak	Average	Quasi-peak	Average		
0.15-0.5	79	66	66 to 56	56 to 46		
0.5-5	73	60	56	46		
5-30	73	60	60	50		

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Note 1: Decreases with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz

#### 3.2 Test Procedure

Test is conducting under the description of ANSI C63.4-2014 American National Standard for Methods of Measurement of Radio Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.



Test Setup Block Diagram

### 3.3 Test Data and Results

Based on all tested data, the EUT complied with the FCC Part 15.107 standard limit for a Class B device, and with the worst case as below:

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

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Note 2: The lower limit applies at the band edges

Test P	lots and Data	of Conduc	ted Emissi	ions						
Teste	l Model:	FM-I	M-BO5C-HD2BW							
Teste	l Mode:	TM1	M1							
Test V	oltage:	AC 1	C 120V/60Hz							
Test P	ower Line:	Neut	eutral							
Rema	·k:									
90.0	dBuV									
80										
70										
60 >	3							+	FCC Part15 CE-Class B_QP	
50	V. 5								FCC Part15 CE-Class B_AVe	
		Mm mm								
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-10										
0.	150	0.5	i00		(MHz)		5.0	000	30.000	
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark	
1 *	0.1500	51.71	9.62	61.33	66.00	-4.67	QP	Р		
2	0.1500	28.71	9.62	38.33	56.00	-17.67	AVG	Р		
3	0.1860	46.26	9.67	55.93	64.21	-8.28	QP	Р		
4	0.1860	25.24	9.67	34.91	54.21	-19.30	AVG	Р		
5	0.2940	37.91	9.91	47.82	60.41	-12.59		Р		
7	0.2940 0.4515	21.61 31.74	9.91 9.92	31.52 41.66	50.41 56.85	-18.89 -15.19		P		
8	0.4515	16.03	9.92	25.95	46.85	-20.90		Р		
9	1.2345	20.83	10.19	31.02	56.00	-24.98		P		
10	1.2345	9.82	10.19	20.01	46.00	-25.99		Р		
11	21.7995	23.66	11.89	35.55	60.00	-24.45		Р		
12	21.7995	8.75	11.89	20.64	50.00	-29.36	AVG	Р		

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Test P	lots and Data o	of Conduct	ed Emissi	ons						
Teste	d Model:	FM-E	M-BO5C-HD2BW							
Teste	d Mode:	TM1								
Test V	oltage:	AC 1	20V/60Hz	 :						
	ower Line:	Live	,							
		Live	live							
Rema										
90.0	dBuV							_		
80										
00										
70						_	+	+		
60									FCC Part15 CE-Class B_QP	
1	3					_			FCC Part15 CE-Class B_AV	_
50	my my	5							T CC T dit 13 CC Class B_AV	•
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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark	
1 *	0.1500	52.04	9.96	62.00	66.00	-4.00	QP	P		
2	0.1500	29.74	9.96	39.70	56.00	-16.30	AVG	Р		
3	0.2535	40.03	9.82	49.85	61.64	-11.79	QP	Р		
4	0.2535	23.43	9.82	33.25	51.64	-18.39	AVG	Р		
5	0.3750	33.56	9.99	43.55	58.39	-14.84	QP	P		
6	0.3750	17.34	9.99	27.33	48.39	-21.06	AVG	Р		
7 8	1.0995	20.26 9.59	10.21	30.47 19.80	56.00 46.00	-25.53 -26.20	QP AVG	P		
9	3.0795	9.59	10.21	20.08	56.00	-35.92	QP	Р		
10	3.0795	-2.95	10.54	7.59	46.00	-38.41	AVG	P		
11	21.6015	20.96	12.02	32.98	60.00	-27.02	QP	Р		
12	21.6015	6.33	12.02	18.35	50.00	-31.65	AVG	Р		

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### 4. Radiated Disturbance

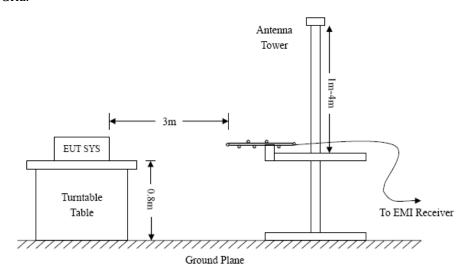
#### 4.1 Standard and Limit

According to the rule FCC Part 15.109, Radiated emission limit for a class A and class B device as below:

Eraquancy of Emission (MHz)	Class A (3m)	Class B (3m)							
Frequency of Emission (MHz)	Quasi-peak (dBuV/m)	Quasi-peak (dBuV/m)							
30-88	50	40							
88-216	54.0	43.5							
216-960	57.0	46							
Above 960	60	54							
Note: The more stringent limit applies at transition frequencies.									

#### **4.2 Test Procedure**

Test is conducting under the description of ANSI C63.4-2014 American National Standard for Methods of Measurement of Radio Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.



Test Setup Block Diagram

#### 4.3 Test Data and Results

Based on all tested data, the EUT complied with the FCC Part 15.109 standard limit for a Class B device, and with the worst case as below:

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

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	ots and Da	ta UI	Nau	1													
ested	Model:				FM-	FM-BO5C-HD2BW											
'ested	Mode:				TM1												
est Vo	oltage:				AC 1	AC 120V/60Hz											
est Ar	ntenna Pola	ariza	tion:		Hori	zont	al										
lemar	k:																
80.0	dBuV/m																
70																	
60		-				_							+				
										FCC	Part15 RI	E-Class B_	30-100	DOMHz			
50										Mar	gin -6 dB						
40						┵											
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0.0 30.	.000		60	0.00				(MHz)		300	.00			1000.000			
No.	Frequence (MHz)	у	Reading (dBuV)		Factor (dB/m)		Level (dBuV/m)	Limit (dBuV/m)			Azimuth (deg.)	P/F	Remark				
1	36.2541		27.0	8	-8	.52	18.56	40.00	-21.44	QP	100	168	Р				
2	54.4516	_	27.2		-9.21		18.02	40.00	-21.98	QP	100	138	Р				
3	151.5972	$\rightarrow$	26.2				17.51	43.50	-25.99	QP	100	0	Р				
5	284.9767 425.0280	$\rightarrow$	26.5		_	.68	17.83 22.05	46.00 46.00	-28.17 -23.95	QP QP	100	279 229	P P				
5	420.0280	J	21.0	00	ı -5	.61	ZZ.U5	40.00	1-23.93	l QP	100	229	"	I			

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Test P	lots and	Data	of Rad	iate	d Em	issio	ns										
Teste	d Model:				FM-B05C-HD2BW												
Tested	d Mode:				TM1												
Test V	oltage:				AC 120V/60Hz												
Test A	ntenna l	Polariz	zation	:	Vertical												
Rema	rk:																
80.0	dBuV/n	n			ı												
70																	
60																	
										FC	C Part15	RE-Class B	_30-1	1000MHz			
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No.	Frequ (MF		Reading (dBuV)		Factor (dB/m)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Rema	ırk		
1	35.0	048	27.00		27.00 -8.		-8.73		18.27	40.00	-21.73	QP	100	12	Р		
2	44.1		27.36		-9.08		18.28	40.00	-21.72	QP	100	12	Р				
3	147.4		26.19		-8.82		17.37	43.50	-26.13	QP	100	12	P				
4	365.5		27.74		-7.13		20.61	46.00	-25.39	QP	100	63	P				
5 6 *	595.1		26.5		-1.		25.31	46.00	-20.69	QP	100	340	P				
6 *	744.8	001	30.0	19	0.7	3	30.82	46.00	-15.18	QP	100	310	Р				

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