

	TEST REPORT			
FCC ID:	2A578-T08			
Test Report No:	TCT230103E024			
Date of issue:	Feb. 01, 2023			
Testing laboratory:	SHENZHEN TONGCE TESTING LAB			
Testing location/ address:	2101 & 2201, Zhenchang Factory Renshan Industrial Zone, Fuha Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China			
Applicant's name:	INTRO UNION ELECTRONICS CO., LIMITED			
Address:	501, 2 Building, NO.280-2, Dabutou Village, Songyuansha Community, Guanhu Sub-district, Longhua District, Shenzhen, China			
Manufacturer's name:	INTRO UNION ELECTRONICS CO., LIMITED			
Address:	501, 2 Building, NO.280-2, Dabutou Village, Songyuansha Community, Guanhu Sub-district, Longhua District, Shenzhen, China			
Standard(s):	FCC CFR Title 47 Part 2.1091			
Product Name:	Bluetooth FM transmitter			
Trade Mark:	N/A			
Model/Type reference:	MTG BT FM Transmitter, 6132510, T08			
Rating(s):	Input: DC 12V-24V Output: QC18W+5V/2.4A			
Date of receipt of test item	Jan. 03, 2023			
Date (s) of performance of test:	Dec. 28, 2022 - Feb. 01, 2023			
Tested by (+signature):	Yannie ZHONG			
Check by (+signature):	Beryl ZHAO			
Approved by (+signature):	Tomsin Jones 34			

General disclaimer:

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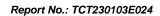




Table of Contents

1.1	eneral Pro . EUT des . Model(s)	cription		(0)		3 3
2. Fa 2.1 2.2	cilities and Exercises and Exe	nd Accre	ditations	S		4 4 4
J. 10	(S)	is and m	(i)	ent Data		



Report No.: TCT230103E024

1. General Product Information

1.1. EUT description

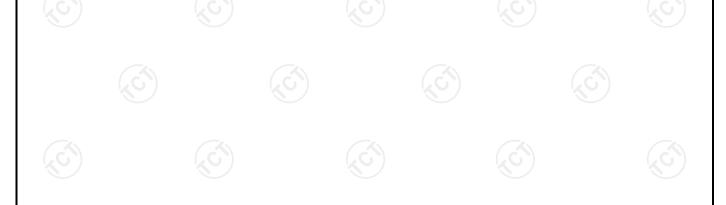
Product Name:	Bluetooth FM transmitter	(3)
Model/Type reference:	MTG BT FM Transmitter	
Sample Number:	TCT230103E022-0101	X
Operation Frequency:	For BT: 2402MHz~2480MHz For FM: 88.1MHz – 107.9MHz	
Modulation Type:	For BT: GFSK, π/4-DQPSK, 8DPSK For FM: FM	
Antenna Type:	For BT: PCB Antenna For FM: Internal Antenna	
Antenna Gain:	2.12dBi	
Rating(s):	Input: DC 12V-24V Output: QC18W+5V/2.4A	

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

1.2. Model(s) list

No.	Model No.	Tested with
1	MTG BT FM Transmitter	\boxtimes
Other models	6132510, T08	

Note: MTG BT FM Transmitter is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names. So the test data of MTG BT FM Transmitter can represent the remaining models.





NTRE TECHNOLOGY Report No.: TCT230103E024

2. Facilities and Accreditations

2.1. Facilities

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

• FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

• IC - Registration No.: 10668A-1

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

2.2. Location

SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339





Report No.: TCT230103E024

3. Test Results and Measurement Data

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b), Limits for Maximum Permissible Exposure (MPE),

Frequency range	Electric field	Magnetic field strength	Power density	Averaging time (minutes)	
(MHz)	strength(V/m)	(A/m)	(mW/cm ²)		
	(A) Limi	ts for Occupational/Controlled E	xposures		
0.3-3.0	614	1.63	*(100)	6	
3.0–30	1842/f	4.89/f	*(900/f ²)	6	
30–300	61.4	0.163	1.0	6	
300-1500	-	-	f/300	6	
1500-100,000	-	-	5	6	
	(B) Limits fo	or General Population/Uncontrol	led Exposure		
0.3-1.34	614	1.63	*(100)	30	
1.34–30	824/f	2.19/f	*(180/f ²)	30	
30–300	27.5	0.073	0.2	30	
300-1500	-	-	f/1500	30	
1500–100,000	-	-	1.0	30	

Note: f = frequency in MHz

EVALUATION METHOD

Transmission formula: $Pd = (Pout*G)/(4*pi*r^2)$

Where

Pd = power density in mW/cm², Pout = output power to antenna in mW, G = gain of antenna in linear scale;

Pi = 3.1416, R = distance between observation point and center of the radiator in cm

Assessment Result

□ Passed	■ Not Applicable
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Frequency range (MHz)	Туре	Conducted Power (dBm)	Maximum Tune-up (dBm)	Power Density (mW/cm2)	Limit (mW/cm2)	Result
2402-2480	BT-EDR	0.36	1.00	0.000408	1.0000	Pass
88.1 – 107.9	FM	-33.143	-32.00	0.000001	0.2000	Pass

Note: The exposure evaluation safety distance is 20cm.

