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Report Template Version: V05 Report Template Revision Date: 2021-11-03

# **Test Report**

*In the configuration tests	d the EUT complied with the standards apositied above
Test Result:	PASS*
Date of Issue:	2024-09-05
Date of Test:	2024-08-21 to 2024-08-29
Date of Receipt:	2024-08-21
	ANSI C63.10:2013
	KDB558074 D01 15.247 Meas Guidance v05r02
Standards:	47 CFR Part 15, Subpart C
FCC ID:	2A26P-RA012N
Brand Name:	RENPHO
Test Model No.:	R-A012
Model No.:	R-A012, R-A020
Product:	Smart scale
Equipment Under Test (El	JT):
Address of Applicant:	FLAT/RM 16 18/F SEAPOWER TOWER CONCORDIA PLAZA 1 SCIENCE MUSEUM ROAD TSIM SHA TSUI KL
Report No.: Applicant:	CQASZ20240801773E-01 REESTAR INTERNATIONAL LIMITED

\*In the configuration tested, the EUT complied with the standards specified above.

Tested By:	lewis zhou
	( Lewis Zhou )
Reviewed By:	Timo Loj'
	( Timo Lei )
	Alex

Approved By:

(Alex Wang)



The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.



# 1 Version

## **Revision History Of Report**

Report No.	Version	Description	Issue Date
CQASZ20240801773E-01	Rev.01	Initial report	2024-09-05



# 2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	ANSI C63.10 2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 2013	N/A
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(3)	ANSI C63.10 2013	PASS
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	ANSI C63.10 2013	PASS
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	ANSI C63.10 2013	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
Radiated Spurious Emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS

Note:

Since the EUT is powered by solar battery charging, this AC power line conducted emission test should be not applicable



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# 4 General Information

## 4.1 Client Information

Applicant:	REESTAR INTERNATIONAL LIMITED
Address of Applicant:	FLAT/RM 16 18/F SEAPOWER TOWER CONCORDIA PLAZA 1 SCIENCE MUSEUM ROAD TSIM SHA TSUI KL
Manufacturer:	Shenzhen Ruiyi Business Technology Co., Ltd.
Address of Manufacturer:	No. 810-C063, 8th Floor, Xiangbin International Financial Centre, No.18, West Free Trade Street, China Special Economic Zone, Qianhai Bay, Shenzhen, Guangdong Province, 518000 China

# 4.2 General Description of EUT

Product Name:	Smart scale		
Model No.:	R-A012, R-A020		
Test Model No.:	R-A012		
Trade Mark:	RENPHO		
Software Version:	V1.4		
Hardware Version:	V1.1		
Operation Frequency:	2402MHz~2480MHz		
Bluetooth Version:	V5.1		
Modulation Type:	GFSK		
Transfer Rate:	1Mbps		
Number of Channel:	40		
Product Type:	□ Mobile ⊠ Portable		
Test Software of EUT:	662x_FCC_Rev1.7R		
Antenna Type:	PCB antenna		
Antenna Gain:	1.24dBi		
EUT Power Supply:	Li-ion battery DC 3.7V 500mAh, Charge by DC 5V for adapter		
Simultaneous Transmission	□ Simultaneous TX is supported and evaluated in this report.		
	⊠ Simultaneous TX is not supported.		



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

#### Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel (CH0)	2402MHz
The middle channel (CH19)	2440MHz
The highest channel (CH39)	2480MHz



## 4.3 Additional Instructions

EUT Test Software Settings:				
Mode:	Special software is used.	Special software is used.		
	Through engineering command int engineering command: *#*#3646633;	5 5		
EUT Power level:	Class2 (Power level is built-in set par selected)	ameters and cannot be changed and		
Use test software to set the transmitting of the EUT.	lowest frequency, the middle frequency an	d the highest frequency keep		
Mode	Channel	Frequency(MHz)		
	СНО	2402		
GFSK	CH19	2440		
	СН39	2480		

#### Run Software:

Mannul Test								
ChipType ESP82	66 ~	COM		- BaudRate	9600	~	open ck	ose
IDLE						RAM V	Select Bir	1
						0%	Load Bin	
WiFi Test BT	Test W	/iFi Adaptivity	Manual					
Test Mode:		WiFi Rate:		BandWdith:		Channel:		
TX continues	~	11b 1M	÷.	20M	~	1/2412	3	ő
Attenuation(0.25d	IB)	Duty Cycle:		Certification	EN	Certificat	ion Code:	
0		default	~	0x1fc000		SRRC		~
				1	start		stop	
og								
· •								
						1	Show Se	enc
						1	Show Tir	me
							Log Clea	r
								e



## 4.4 Test Environment

Operating Environment	:
Temperature:	24.5°C
Humidity:	59% RH
Atmospheric Pressure:	1009mbar
Test Mode:	Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.

## 4.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) Support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
Adapter	MI	/	1	CQA
2) Cable				

Cable No.	Description	Manufacturer	Cable Type/Length	Supplied by
	/	1	1	1



#### 4.6 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the **Shenzhen Huaxia Testing Technology Co., Ltd.** quality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

No.	Item	Uncertainty
1	Radiated Emission (Below 1GHz)	5.12dB
2	Radiated Emission (Above 1GHz)	4.60dB
3	Conducted Disturbance (0.15~30MHz)	3.34dB
4	Radio Frequency	3×10 <sup>-8</sup>
5	Duty cycle	0.6 %
6	Occupied Bandwidth	1.1%
7	RF conducted power	0.86dB
8	RF power density	0.74
9	Conducted Spurious emissions	0.86dB
10	Temperature test	0.8°C
11	Humidity test	2.0%
12	Supply voltages	0.5 %
13	Frequency Error	5.5 Hz

Hereafter the best measurement capability for CQA laboratory is reported:



### 4.7 Test Location

All tests were performed at:

Shenzhen Huaxia Testing Technology Co., Ltd.

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

#### 4.8 Test Facility

#### • A2LA (Certificate No. 4742.01)

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

#### • FCC Registration No.: 522263

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263

#### 4.9 Deviation from Standards

None.

#### 4.10Other Information Requested by the Customer

None.



# 4.11 Equipment List

			Instrument	Calibration	Calibration
Test Equipment	Manufacturer	Model No.	No.	Date	Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2023/09/08	2024/09/07
Spectrum analyzer	R&S	FSU26	CQA-038	2023/09/08	2024/09/07
Spectrum analyzer	R&S	FSU40	CQA-075	2023/09/08	2024/09/07
Preamplifier	MITEQ	AFS4-00010300-18- 10P-4	CQA-035	2023/09/08	2024/09/07
Preamplifier	MITEQ	AMF-6D-02001800- 29-20P	CQA-036	2023/09/08	2024/09/07
Preamplifier	EMCI	EMC184055SE	CQA-089	2023/09/08	2024/09/07
Loop antenna	Schwarzbeck	FMZB1516	CQA-060	2021/09/16	2024/09/15
Bilog Antenna	R&S	HL562	CQA-011	2021/09/16	2024/09/15
Horn Antenna	R&S	HF906	CQA-012	2021/09/16	2024/09/15
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2021/09/16	2024/09/15
Coaxial Cable (Above 1GHz)	CQA	N/A	C007	2023/09/08	2024/09/07
Coaxial Cable (Below 1GHz)	CQA	N/A	C013	2023/09/08	2024/09/07
RF _cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2023/09/08	2024/09/07
Antenna Connector	CQA	RFC-01	CQA-080	2023/09/08	2024/09/07
Power Sensor	KEYSIGHT	U2021XA	CQA-30	2023/09/08	2024/09/07
N1918A Power Analysis Manager Power Panel	Agilent	N1918A	CQA-074	2023/09/08	2024/09/07
Power meter	R&S	NRVD	CQA-029	2023/09/08	2024/09/07
Power divider	MIDWEST	PWD-2533-02-SMA- 79	CQA-067	2023/09/08	2024/09/07
EMI Test Receiver	R&S	ESR7	CQA-005	2023/09/08	2024/09/07
LISN	R&S	ENV216	CQA-003	2023/09/08	2024/09/07
Coaxial cable	CQA	N/A	CQA-C009	2023/09/08	2024/09/07
DC power	KEYSIGHT	E3631A	CQA-028	2023/09/08	2024/09/07

Note:

The temporary antenna connector is soldered on the pcb board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.





## 5 Test results and Measurement Data

#### 5.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

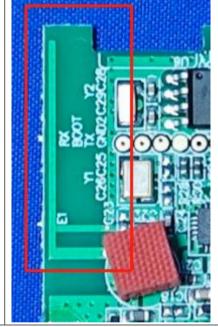
#### 15.203 requirement:

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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### EUT Antenna:



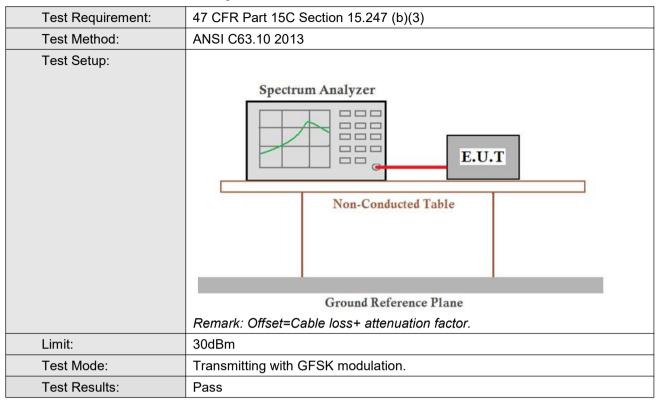
The antenna is PCB antenna.

The connection/connection type between the antenna to the EUT's antenna port is: permanently attachment

This is either permanently attachment or a unique coupling that satisfies the requirement.



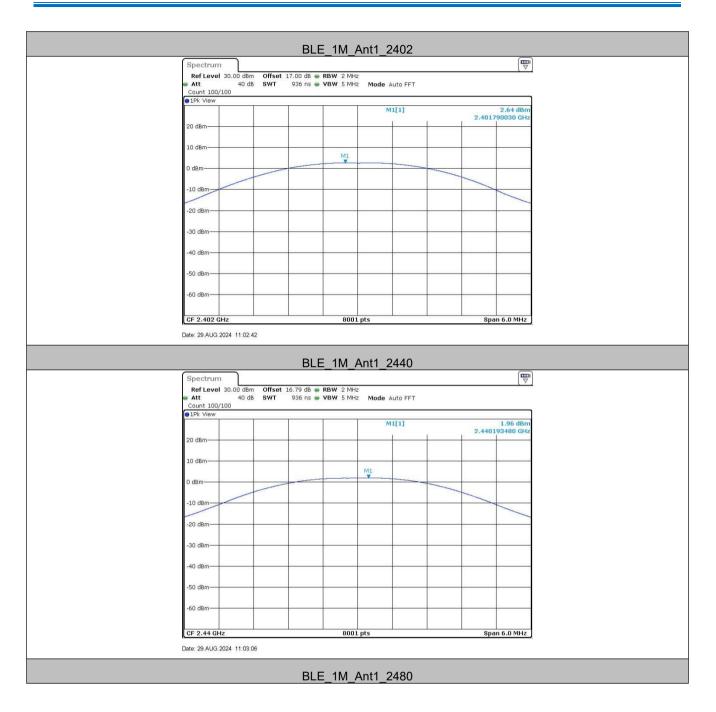
## 5.2 Conducted Peak Output Power



#### Measurement Data

GFSK mode (1Mbps)				
Test channel	Peak Output Power (dBm)	Result		
Lowest	2.64	30.00	Pass	
Middle	1.96	30.00	Pass	
Highest	1.36	30.00	Pass	



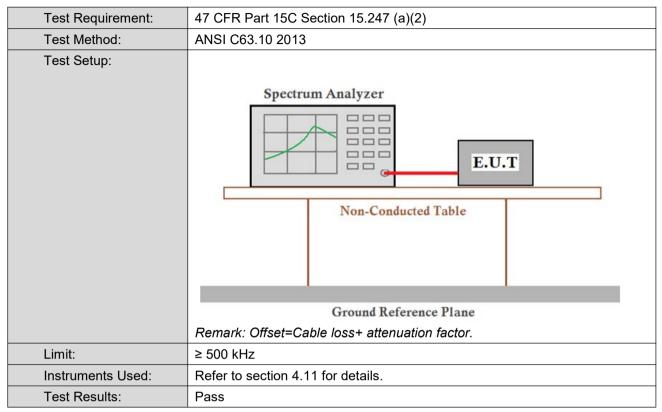




Att 40 c Count 100/100		9 dB 👄 RBW 2 M 6 ns 👄 VBW 5 M	1Hz Mode Auto FFT			
1Pk View						
			M1[1]	24	1.36 dBm 80217470 GHz	
20 dBm-	-			+ +		
10 dBm			10.000			
0 dBm			M1	4		
-10 dBm	1 N					
-20 dBm						
-30 dBm						
-40 dBm	-		-			
-50 dBm						
-60 dBm						



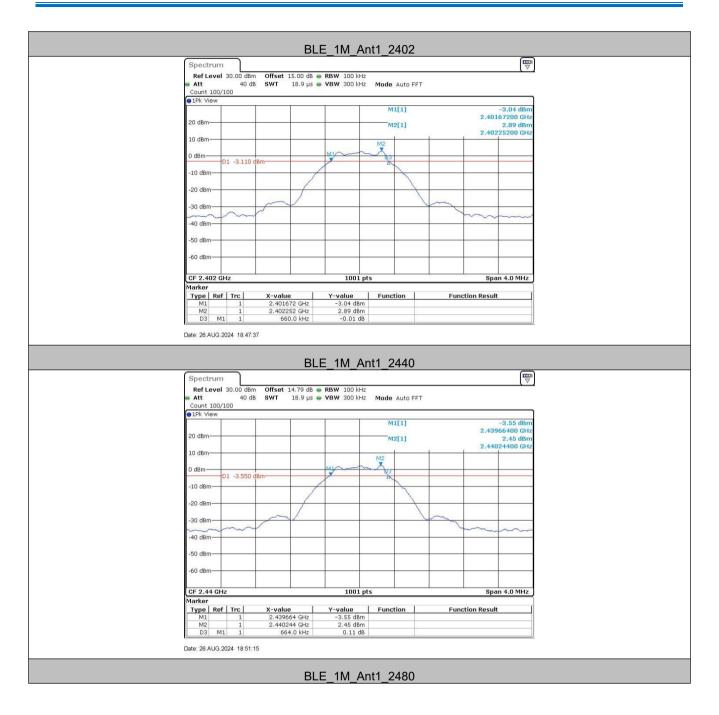
## 5.3 6dB Occupy Bandwidth



#### **Measurement Data**

	GFSK mode (1Mbps)	)	
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	0.66	≥500	Pass
Middle	0.66	≥500	Pass
Highest	0.66	≥500	Pass



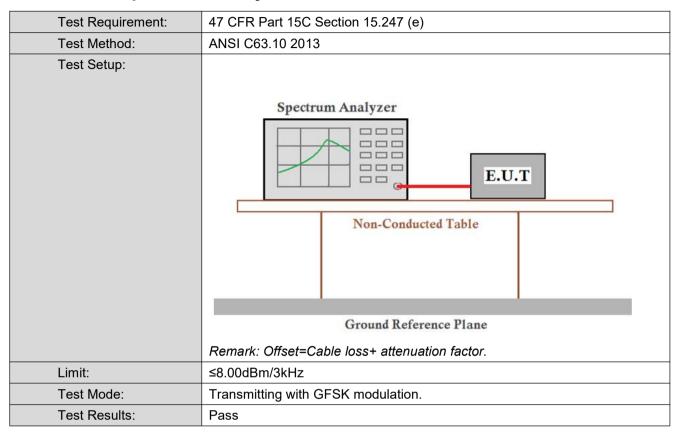




		IB 👄 RBW 100 kHz IS 👄 VBW 300 kHz		т	
Count 100/100					
20 dBm-			M1[1] M2[1]	- 21	-2.27 dBn 2.47966800 GH 3.47 dBn 2.48024800 GH
10 dBm		MI	M2		
-10 dBm	30 dBm		- A3		
-20 dBm					
-30 dBm					
-50 dBm					
-60 dBm				-	
CF 2.48 GHz		1001 pt	ts		Span 4.0 MHz
Marker					
Type         Ref         Trc           M1         1           M2         1           D3         M1         1	X-value 2.479668 GHz 2.480248 GHz 660.0 kHz	3.47 dBm	Function	Func	tion Result



## 5.4 Power Spectral Density

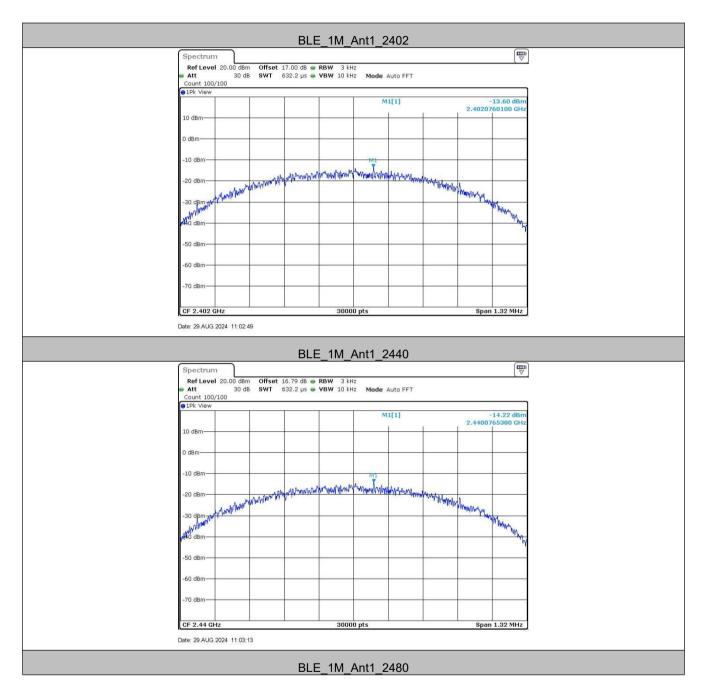


#### Measurement Data

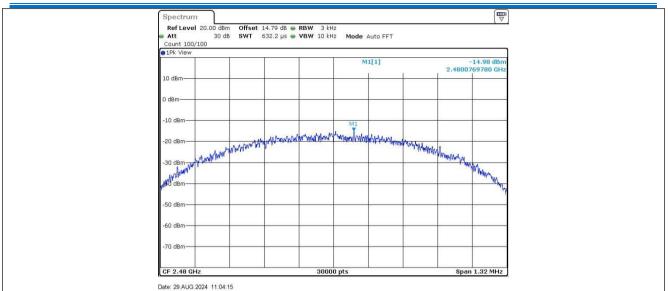
	GFSK mode (1Mbps)		
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Lowest	-13.6	≤8.00	Pass
Middle	-14.22	≤8.00	Pass
Highest	-14.98	≤8.00	Pass



#### Test plot as follows:

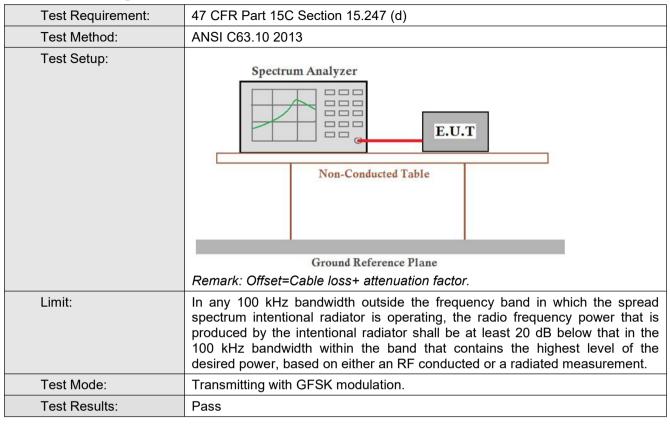








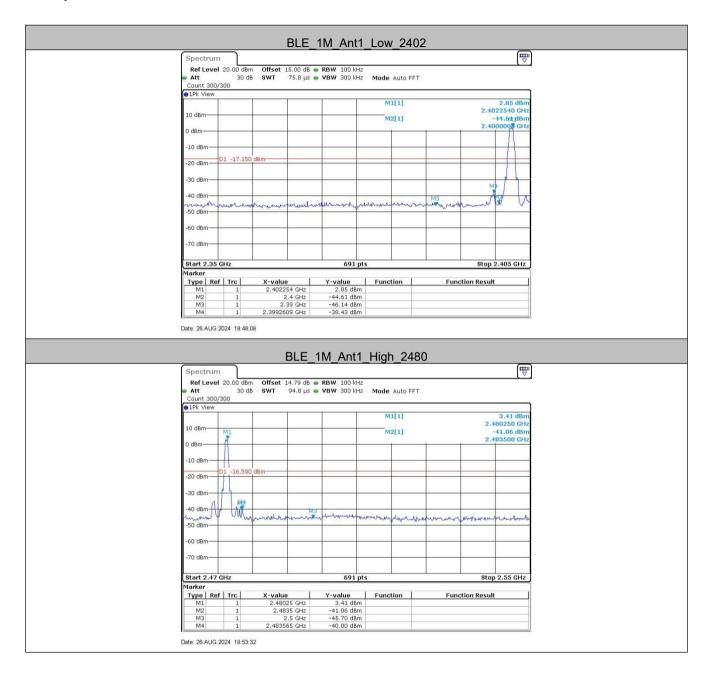
## 5.5 Band-edge for RF Conducted Emissions



TestMode	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
	Low	2402	2.85	-38.43	≤-17.15	PASS
BLE_1M	High	2480	3.41	-40	≤-16.59	PASS

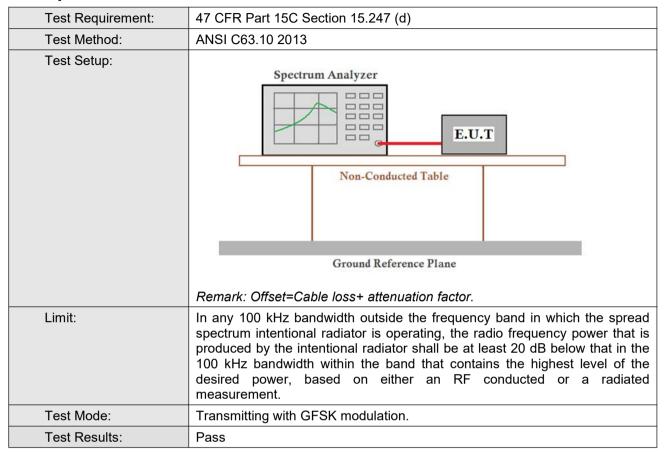


#### Test plot as follows:



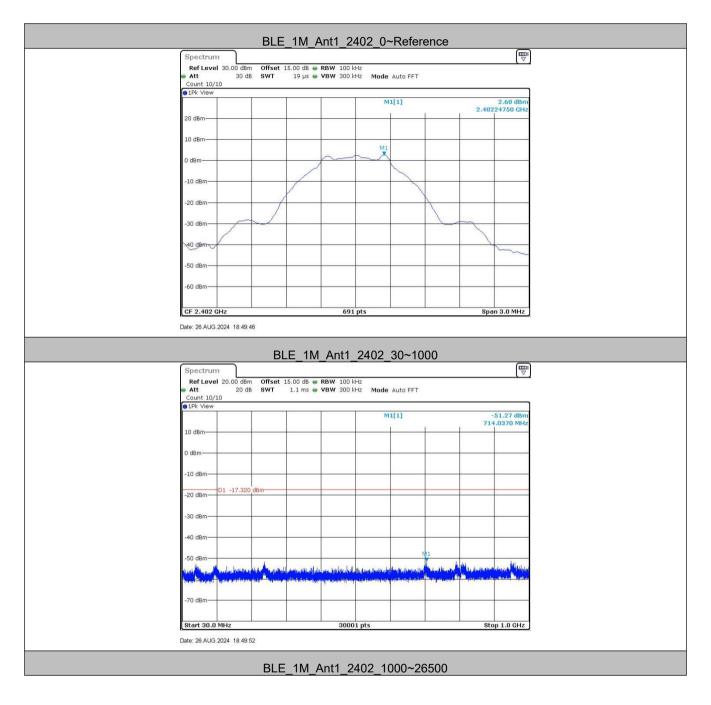


## 5.6 Spurious RF Conducted Emissions

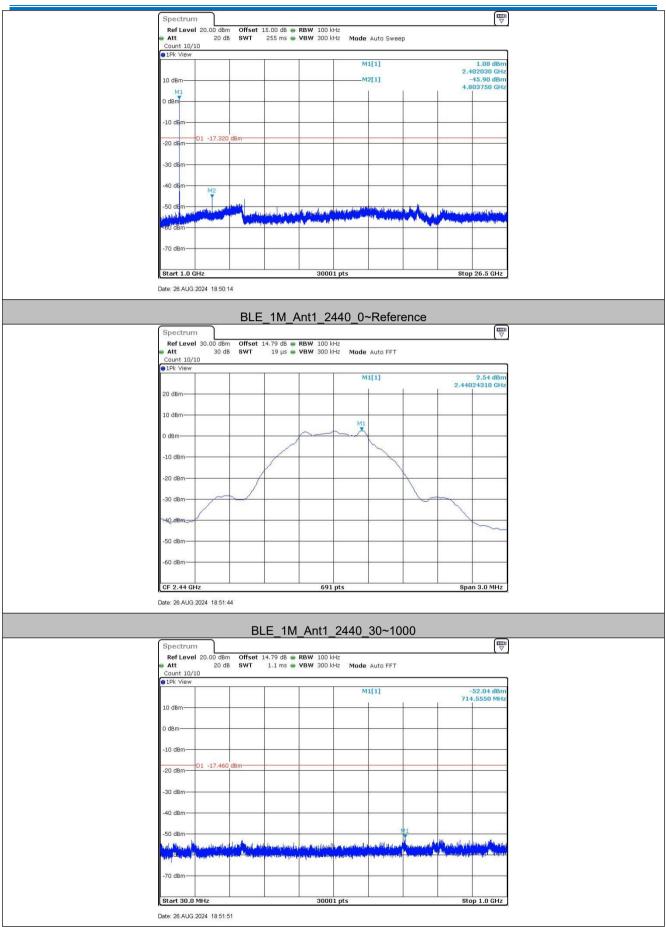




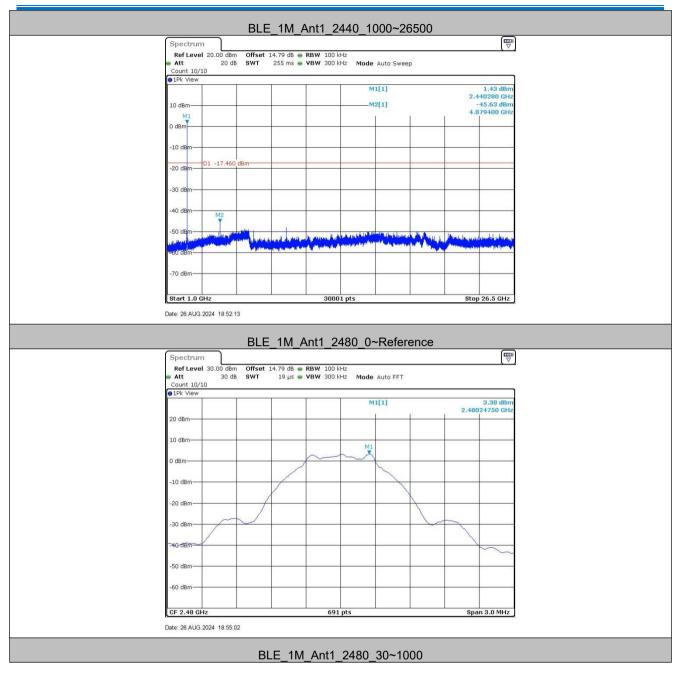
#### Test plot as follows:





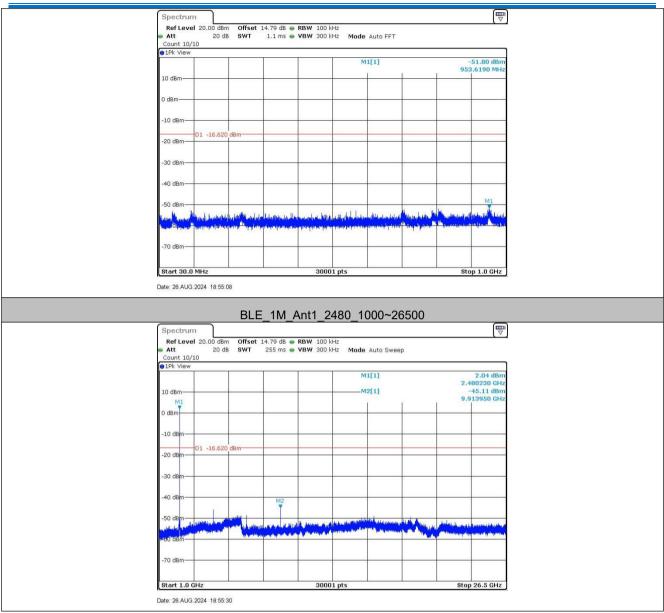








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#### Remark:

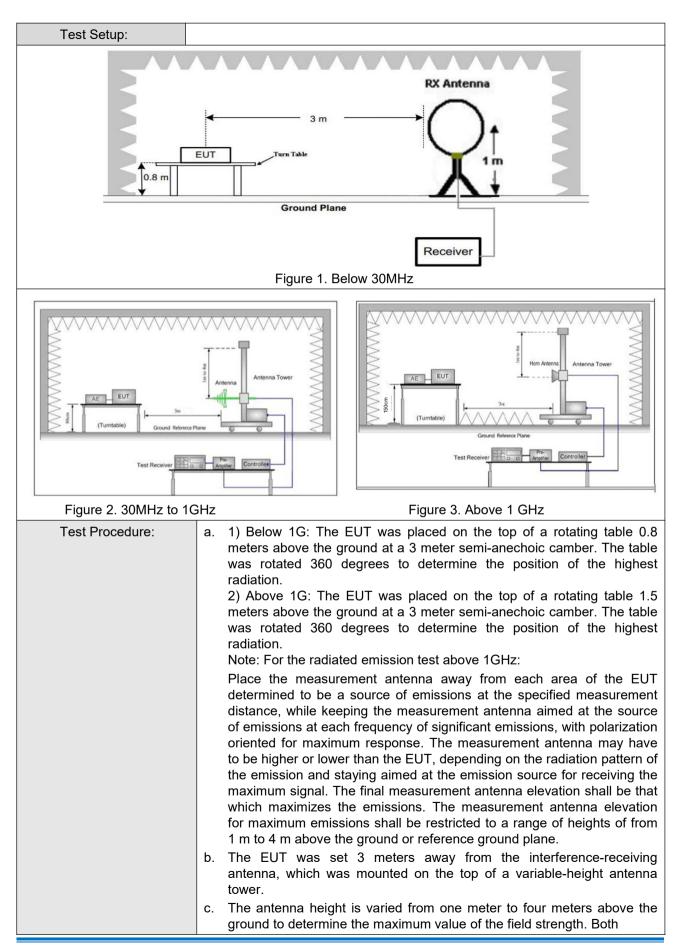
Pretest 9kHz to 25GHz, find the highest point when testing, so only the worst data were shown in the test report. Per FCC Part 15.33 (a) and 15.31 (o) ,The amplitude of spurious emissions from intentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this part.



# 5.7 Radiated Spurious Emission & Restricted bands

Test Requirement:	47 CFR Part 15C Secti	47 CFR Part 15C Section 15.209 and 15.205						
Test Method:	ANSI C63.10 2013							
Test Site:	Measurement Distance	: 3n	n (Semi-Anech	noic Cham	ber)			
Receiver Setup:	Frequency		Detector	RBW	VBW	Remark		
	0.009MHz-0.090MH	z	Peak	10kHz	z 30kHz	Peak		
	0.009MHz-0.090MH	z	Average	10kHz	z 30kHz	Average		
	0.090MHz-0.110MH	z	Quasi-peak	10kHz	z 30kHz	Quasi-peak		
	0.110MHz-0.490MH	z	Peak	10kHz	z 30kHz	Peak		
	0.110MHz-0.490MH	z	Average	10kHz	z 30kHz	Average		
	0.490MHz -30MHz		Quasi-peak	10kHz	z 30kHz	Quasi-peak		
	30MHz-1GHz		Quasi-peak	100 kH	lz 300kHz	Quasi-peak		
	Above 1GHz		Peak	1MHz	3MHz	Peak		
			Peak	1MHz	10Hz	Average		
Limit:	Frequency		eld strength crovolt/meter)	Limit (dBuV/m)	Remark	Measuremer distance (m		
	0.009MHz-0.490MHz	2	400/F(kHz)	-	-	300		
	0.490MHz-1.705MHz	24	1000/F(kHz)	-	-	30		
	1.705MHz-30MHz		30	-	-	30		
	30MHz-88MHz		100	40.0	Quasi-peak	3		
	88MHz-216MHz		150	43.5	Quasi-peak	3		
	216MHz-960MHz		200	46.0	Quasi-peak	3		
	960MHz-1GHz		500	54.0	Quasi-peak	3		
	Above 1GHz		500	54.0	Average	3		
	Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.							



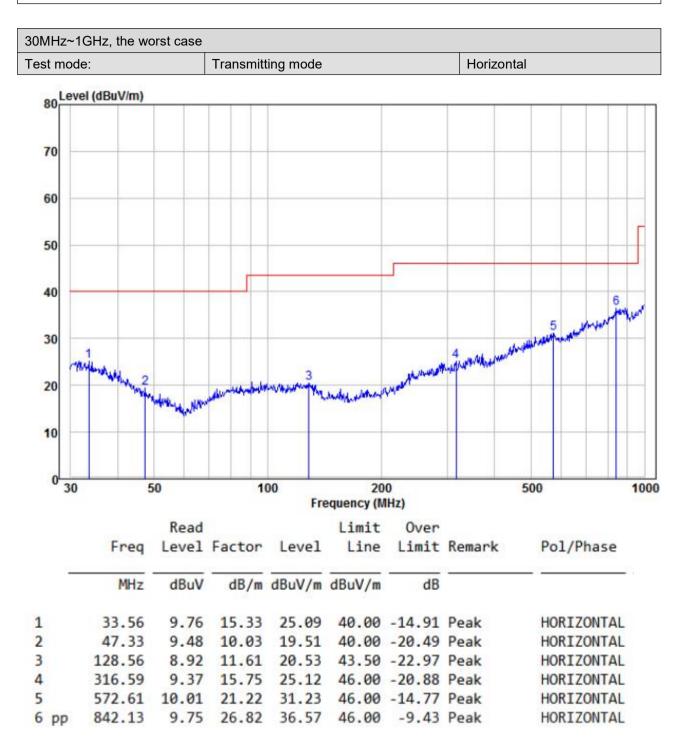




	horizontal and vertical polarizations of the antenna are set to make the measurement.		
	d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.		
	e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.		
	f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.		
	<ul> <li>g. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz)</li> </ul>		
	h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.		
	i. Repeat above procedures until all frequencies measured was complete.		
Exploratory Test Mode:	Transmitting with GFSK modulation. Transmitting mode.		
Final Test Mode:	Through Pre-scan, find the 1Mbps of data type and GFSK modulation is the worst case.		
	For below 1GHz part, through pre-scan, the worst case is the highest channel.		
	Only the worst case is recorded in the report.		
Test Results:	Pass		



#### Radiated Emission below 1GHz

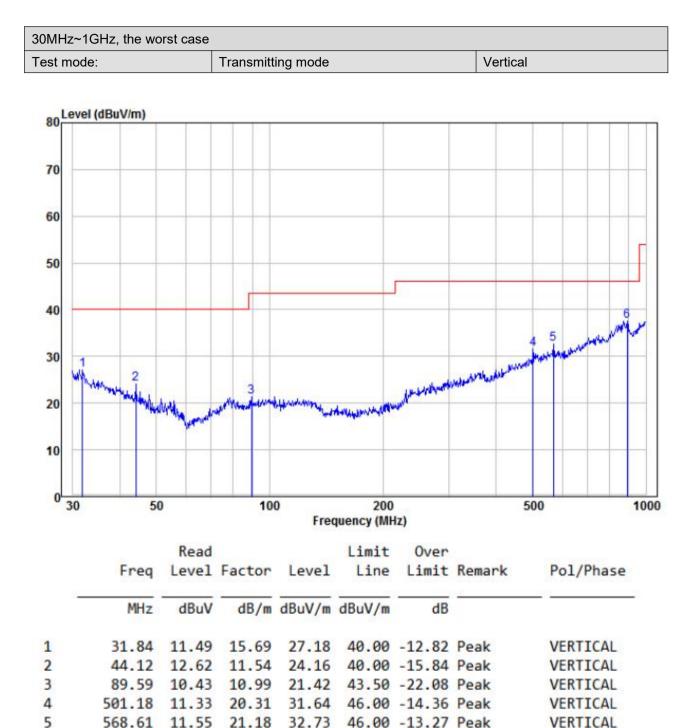




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VERTICAL



890.73 10.88 26.73 37.61 46.00 -8.39 Peak



#### Transmitter Emission above 1GHz

Worse case mode:		GFSK(1Mbps)		Test channel:		Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
2390	54.32	-9.2	45.12	74	-28.88	Peak	н
2400	55.25	-9.39	45.86	74	-28.14	Peak	Н
4804	53.00	-4.33	48.67	74	-25.33	Peak	Н
7206	50.26	1.01	51.27	74	-22.73	Peak	Н
2390	52.58	-9.2	43.38	74	-30.62	Peak	V
2400	50.45	-9.39	41.06	74	-32.94	Peak	V
4804	53.00	-4.33	48.67	74	-25.33	Peak	V
7206	48.94	1.01	49.95	74	-24.05	Peak	V

Worse case mode:		GFSK(1Mbps)		Test channel:		Middle	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
4880	51.67	-4.11	47.56	74	-26.44	peak	Н
7320	50.15	1.51	51.66	74	-22.34	peak	Н
4880	51.41	-4.11	47.30	74	-26.70	peak	V
7320	50.39	1.51	51.90	74	-22.10	peak	V

Worse case mode:		GFSK(1Mbps)		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
2483.5	55.88	-9.29	46.59	74	-27.41	Peak	н
4960	52.60	-4.04	48.56	74	-25.44	Peak	Н
7440	48.68	1.57	50.25	74	-23.75	Peak	Н
2483.5	57.48	-9.29	48.19	74	-25.81	Peak	V
4960	52.07	-4.04	48.03	74	-25.97	Peak	V
7440	50.92	1.57	52.49	74	-21.51	Peak	V

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

2) Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.



# 6 Photographs - EUT Test Setup

# 6.1 Radiated Spurious Emission

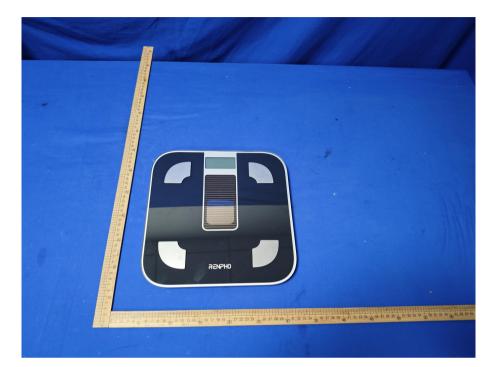






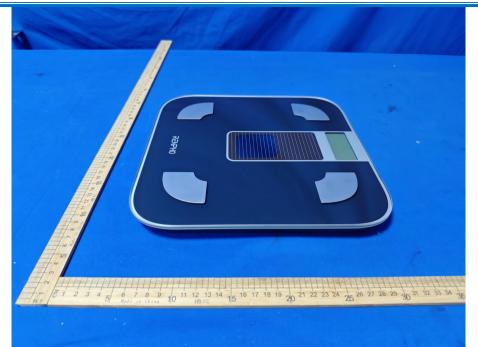


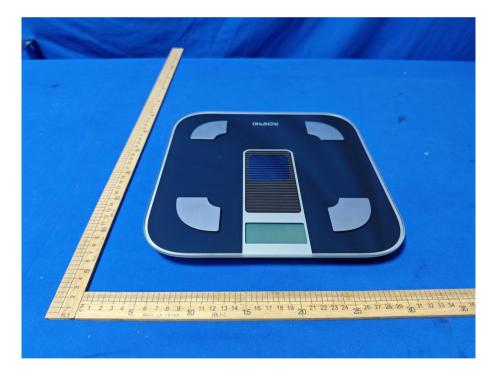
# 7 Photographs - EUT Constructional Details



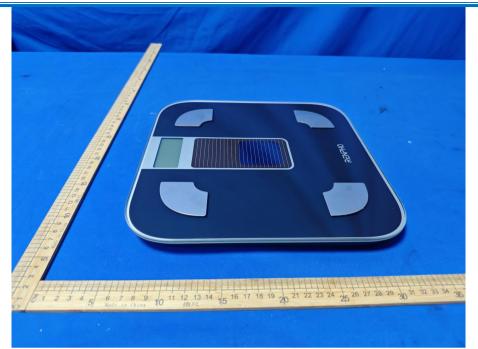








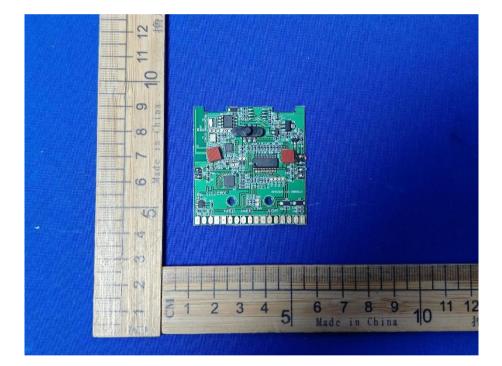




















\*\*\* END OF REPORT \*\*\*