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

Test Report

Report No.:	CQASZ20240701199E-01				
Applicant:	REESTAR INTERNATIONAL LIMITED				
Address of Applicant:	FLAT/RM 16 18/F SEAPOWER TOWER CONCORDIA PLAZA 1 SCIENC MUSEUM ROAD TSIM SHA TSUI KL				
Equipment Under Test (EUT):					
Product:	Body Composition Scale				
Model No.:	ES-CS20M, ES-26M, FT-26BB-B, ES-32MD				
Test Model No.:	ES-CS20M				
Brand Name:	RENPHO				
FCC ID:	2A26P-ESCS20MB1				
Standards:	47 CFR Part 15, Subpart C				
	ANSI C63.10:2013				
	KDB558074 D01 15.247 Meas Guidance v05r02				
Date of Receipt:	2024-7-1				
Date of Test:	2024-7-1 to 2024-7-8				
Date of Issue:	2024-7-19				
Test Result:	PASS*				

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

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

(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
CQASZ20240701199E-01	Rev.01	Initial report	2024-7-19



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)(1)	ANSI C63.10 2013	
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	-		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

N/A: Since the EUT is powered by battery, 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:	Body Composition Scale		
Model No.:	ES-CS20M, ES-26M, FT-26BB-B, ES-32MD		
Test Model No.:	ES-CS20M		
Trade Mark:	RENPHO		
Software Version:	bk3432_cf525_ES-CS20M_1_V2.1		
Hardware Version:	CF525BLE V1.2 2024.5.29		
Operation Frequency:	2402MHz~2480MHz		
Bluetooth Version:	V5.0		
Modulation Type:	GFSK		
Transfer Rate:	1Mbps		
Number of Channel:	40		
Product Type:	☐ Mobile ⊠ Portable		
Test Software of EUT:	BK RF Test - V1.8 en(Aug 2 2019)		
Antenna Type:	PCB antenna		
Antenna Gain:	2.65dBi		
EUT Power Supply:	Battery DC 4.5V (AAA*3)		
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

Mada		Special coffware is used				
Mode:		Special software is used.				
		☐ Through engineering command into				
		engineering command: *#*#3646633#*#*				
EUT Power	level:	Class2 (Power level is built-in set para	ameters and cannot be changed and			
		selected)				
a taat aaftuvara	to opt the low		d the highest frequency keep			
		est frequency, the middle frequency and	a the highest hequency keep			
nsmitting of the	EUT.	1	1			
Mode	e	Channel	Frequency(MHz)			
		CH0	2402			
GFSł	<	CH19	2440			
		CH39	2480			
F) Help(H)	2 2019)					
(F) Help(H)	2 2019) COMM	Close				
(F) Help(H)						
(F) Help(H) TEST	сомм сомя	TX RX DateType Dr9 Y Fyit Test more				
(F) Help(H)	COMM COM5	TX RX C I DateType Pn9 Exit Test mod				
RF		TX RX DateType Dr9 Y Fyit Test more				
(F) Help(H) TEST	COMM COM5	TX RX C I DateType Pn9 Exit Test mod				
(F) Help(H) TEST	COMM COMS SW TEST Freq 80 + Power 2 +	TX RX C I DateType Pn9 Exit Test mod Hopping PacketType BLE Config				
(F) Help(H) TEST	COMM COMS SW TEST Freq 80 + Power 2 +	TX RX C I DateType Pn9 Exit Test mod Hopping PacketType BLE Config				
(F) Help(H) = TEST	COMM COMS	TX RX C I DateType Pn9 Exit Test mod Hopping PacketType BLE Config				
(F) Help(H) TEST	COMM COM5	TX RX C C I DateType Pn9 ▼ Exit Test mod T Hopping PacketType BLE ▼ Config T JPN(TELEC) ▼ BLE	de			
(F) Help(H) F TEST	COMM COM5	TX RX DateType Pn9 ▼ Exit Test mod G C I Exit Test mod Hopping PacketType BLE ▼ Config ☐ JPN(TELEC) ▼ BLE He:3, hopping:0, rx_mode:0, afh:0, jpn:0, ble:1.	de			
(F) Help(H) TEST RF HW TEST Enter DUT PN9 DH5 mode! [CMD] config.d_mode:1,f [CMD] config.d_mode:1,f BLE MODE! CMD RSP:	COMM COM5	TX RX G C I Hopping PacketType Pn9 ▼ Exit Test mod F Hopping PacketType BLE ▼ Config F JPN(TELEC) F BLE He:3, hopping:0, rx_mode:0, afh:0, jpn:0, ble:1. de:3, hopping:0, rx_mode:0, afh:0, jpn:0, ble:1.	de			
(F) Help(H) TEST -RF HW TEST Enter DUT [CMD] config,d_mode:1,f [CMD] config,d_mode:1,f ICMD] config,d_mode:1,f BLE MODE! CMD RSP: d_mode=1,freq=28,powe PN9 DH5 mode!	COMM SW TEST Freq 80 + Power 2 + AFH 0 + freq:2, power:2, p_mod freq:40, power:2, p_mod erlevel=2,p_mode=3,ho	TX RX G C I Hopping PacketType Pn9 ▼ Exit Test mod F Hopping PacketType BLE ▼ Config F JPN(TELEC) F BLE He:3, hopping:0, rx_mode:0, afh:0, jpn:0, ble:1. de:3, hopping:0, rx_mode:0, afh:0, jpn:0, ble:1.	de			



4.4 Test Environment

Operating 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
/	/	/	/	CQA
2) Cable				

Cable No.	Description	Manufacturer	Manufacturer Cable Type/Length	
/	/	/	/	/



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 ⁻⁸
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

			_		
Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration 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 radia responsible party s antenna that uses so that a broken and electrical connecto 15.247(b) (4) requis The conducted out antennas with direct section, if transmitt power from the inter-	ator shall be designed to ensure that no antenna other than that furnished by the shall be used with the device. The use of a permanently attached antenna or of an a unique coupling to the intentional radiator, the manufacturer may design the unit intenna can be replaced by the user, but the use of a standard antenna jack or or is prohibited.
antenna exceeds 6	
EUT Antenna:	E1 C19 C15 C18 C13 C20 U2 P04 Mot2

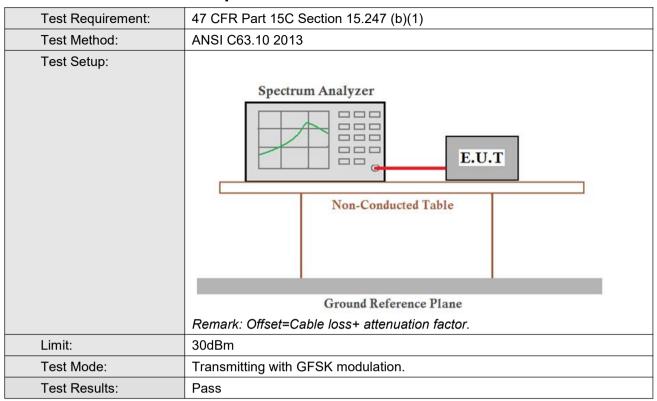
The antenna is PCB antenna.

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)	Limit (dBm)	Result	
Lowest	-2.97	30.00	Pass	
Middle	-2.91	30.00	Pass	
Highest	-2.08	30.00	Pass	











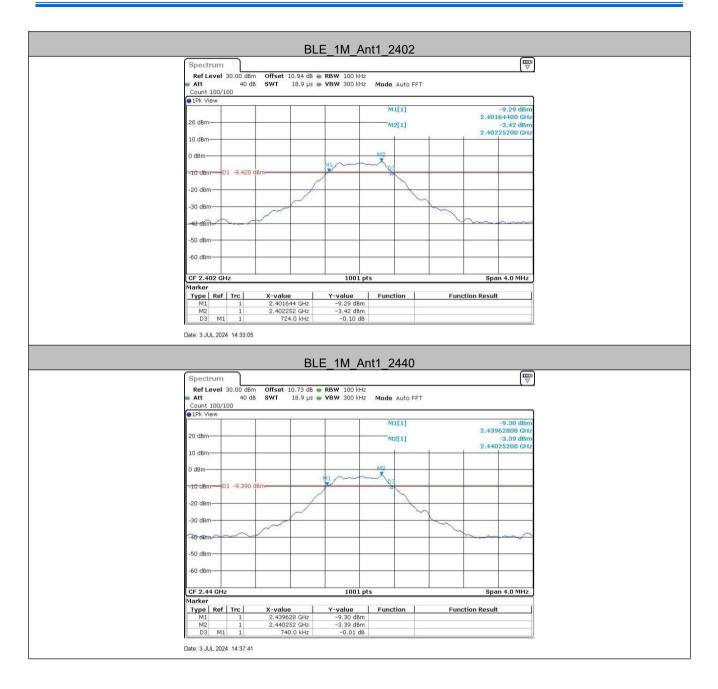
5.3 6dB Occupy Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)			
Test Method:	ANSI C63.10 2013			
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark: Offset=Cable loss+ attenuation factor.			
Limit:	≥ 500 kHz			
Instruments Used:	Refer to section 4.11 for details.			
Test Results:	Pass			

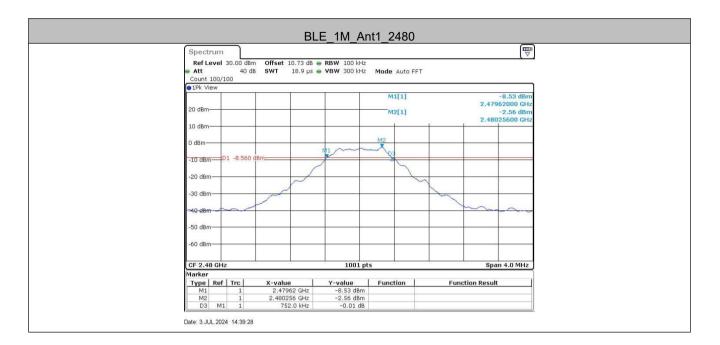
Measurement Data

GFSK mode (1Mbps)					
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result		
Lowest	0.72	≥500	Pass		
Middle	0.74	≥500	Pass		
Highest	0.75	≥500	Pass		











5.4 Power Spectral Density

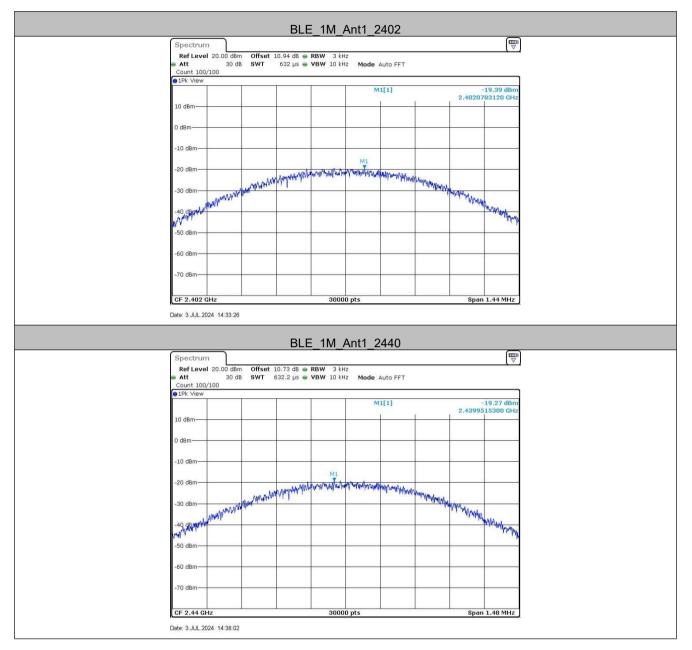
Test Requirement:	47 CFR Part 15C Section 15.247 (e)			
Test Method:	ANSI C63.10 2013			
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table			
	Ground Reference Plane			
	Remark: Offset=Cable loss+ attenuation factor.			
Limit:	≤8.00dBm/3kHz			
Test Mode:	Transmitting with GFSK modulation.			
Test Results:	Pass			

Measurement Data

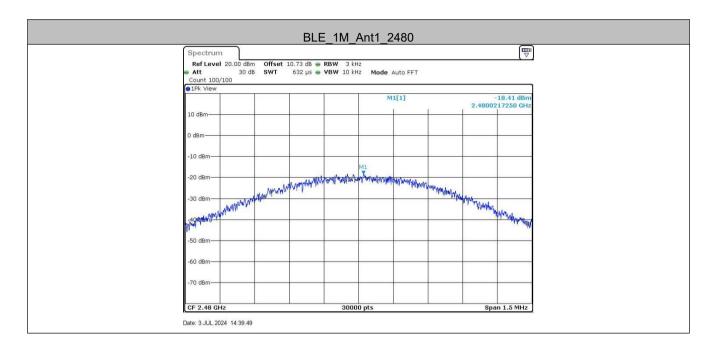
GFSK mode (1Mbps)					
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result		
Lowest	-19.39	≤8.00	Pass		
Middle	-19.27	≤8.00	Pass		
Highest	-18.41	≤8.00	Pass		



Test plot as follows:

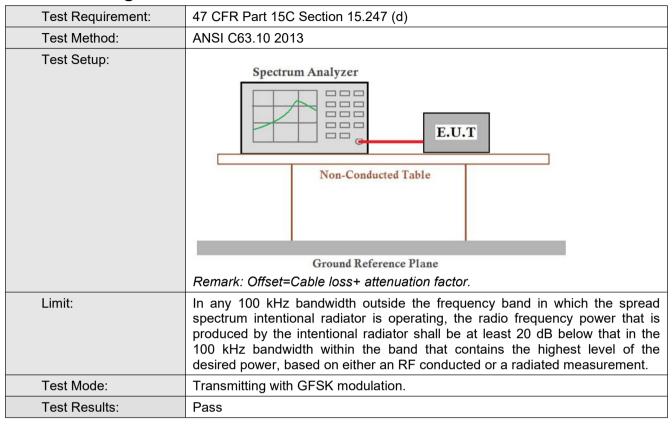








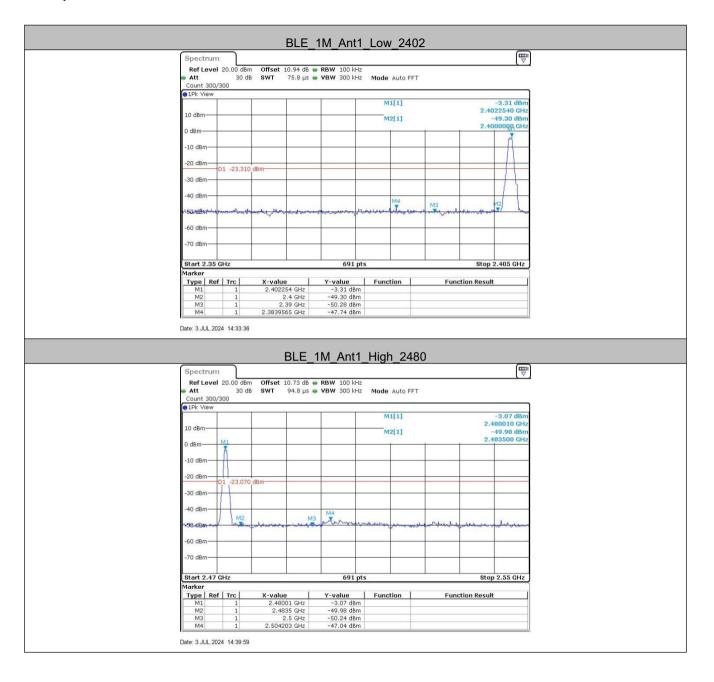
5.5 Band-edge for RF Conducted Emissions



TestMode	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
	Low	2402	-3.31	-47.74	≤-23.31	PASS
BLE_1M	High	2480	-3.07	-47.04	≤-23.07	PASS

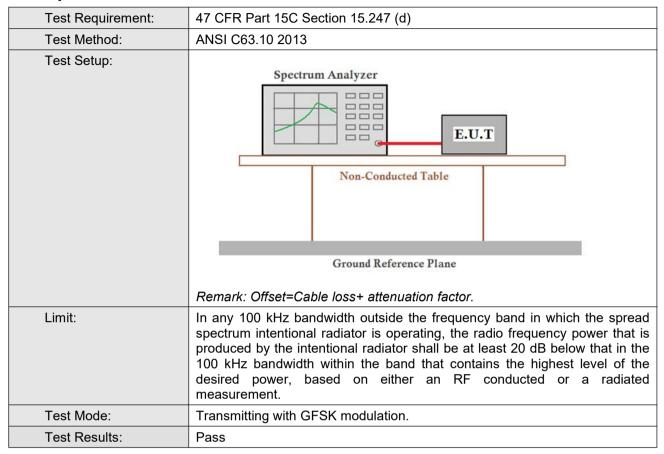


Test plot as follows:



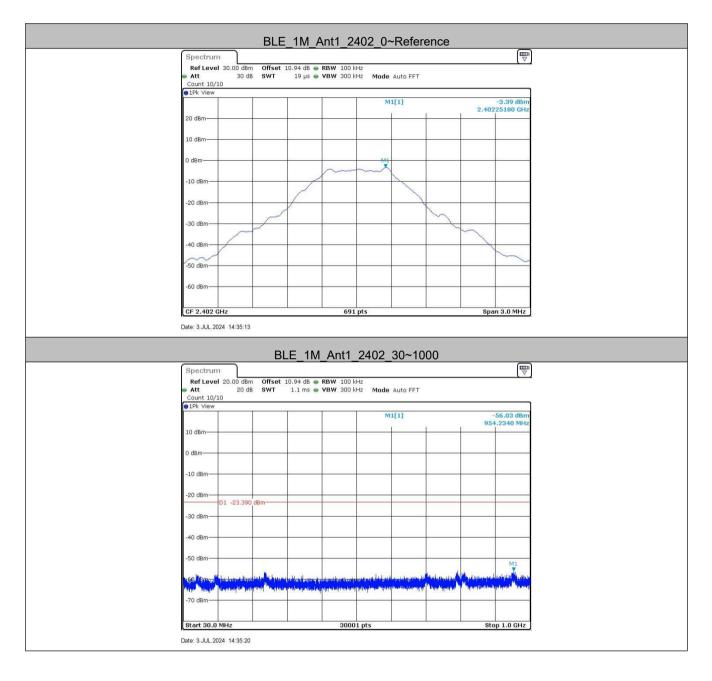


5.6 Spurious RF Conducted Emissions

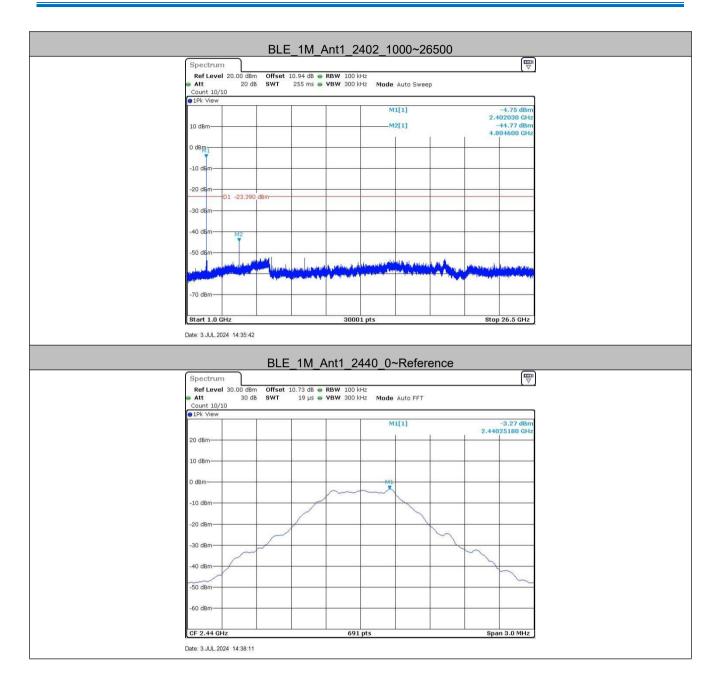




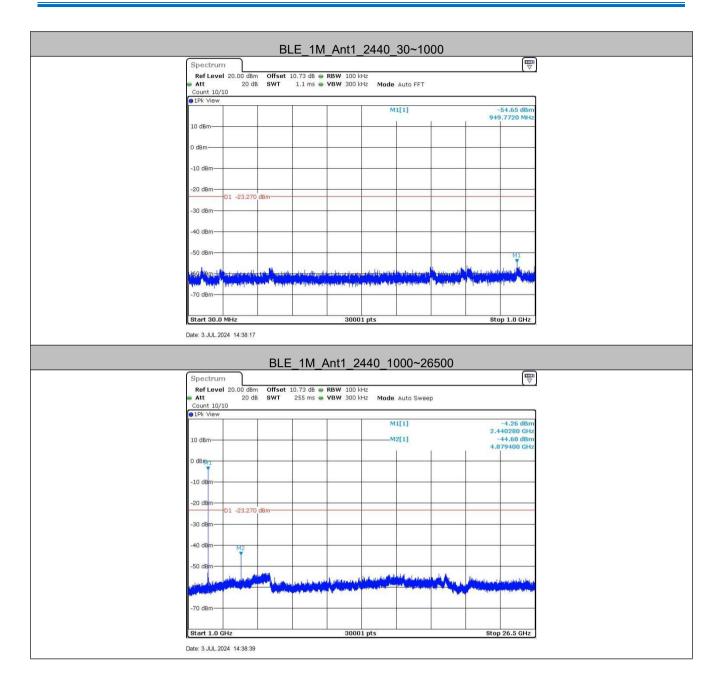
Test plot as follows:



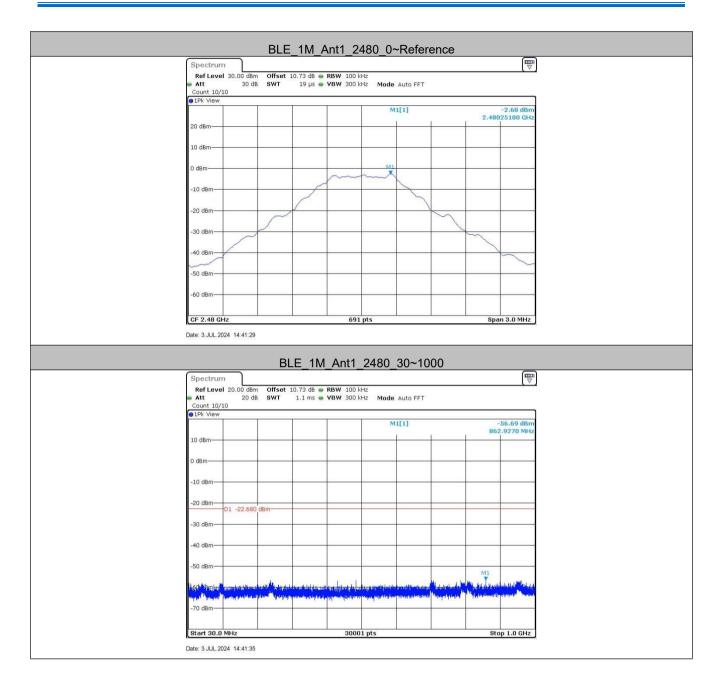




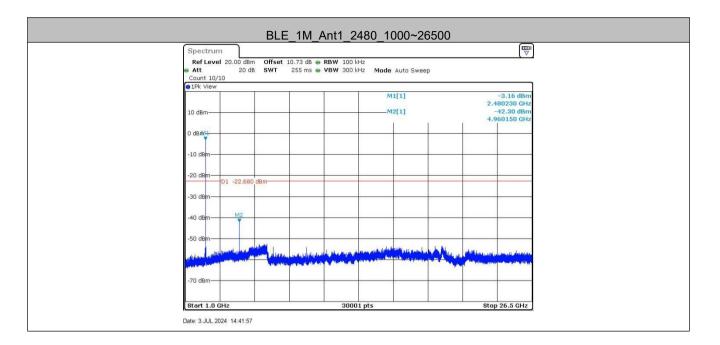












Remark:

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.

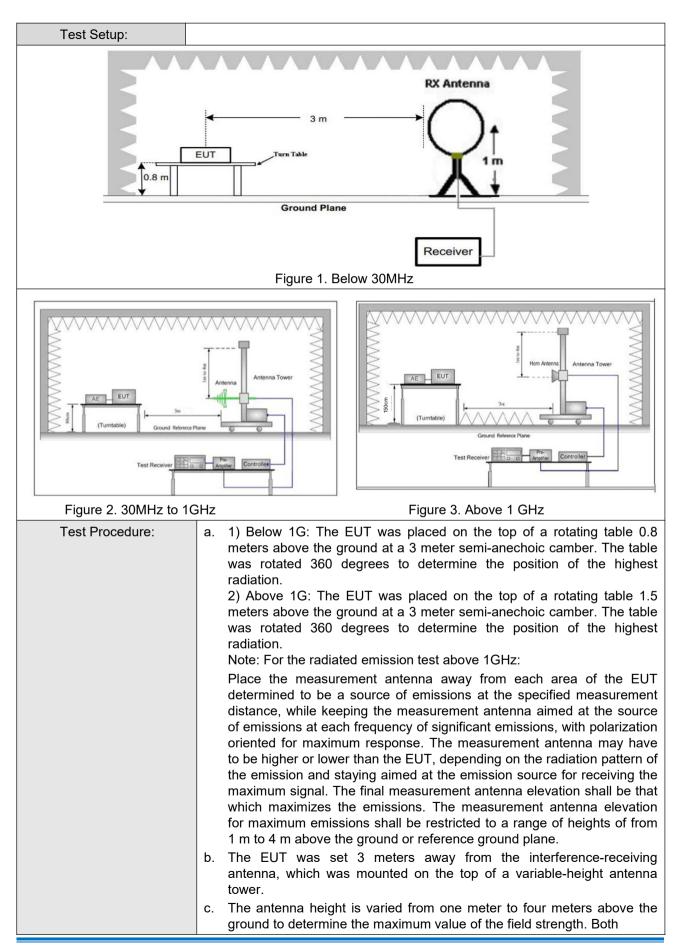


5.7 Radiated Spurious Emission & Restricted bands

Test Requirement:	47 CFR Part 15C Section	on 1	5.209 and 15	.205		
Test Method:	ANSI C63.10 2013					
Test Site:	Measurement Distance	: 3n	n (Semi-Anecł	noic Cham	ber)	
Receiver Setup:	Frequency	Frequency Detec		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	Measureme distance (r
	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	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), frequency emissions is limit applicable to the e peak emission level rac	20c quip	IB above the oment under t	maximum est. This p	permitted ave	erage emissio

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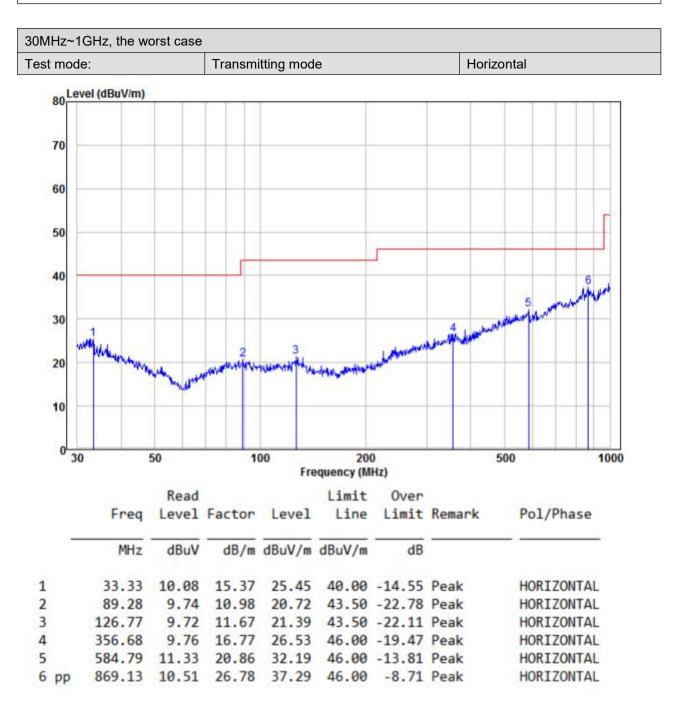




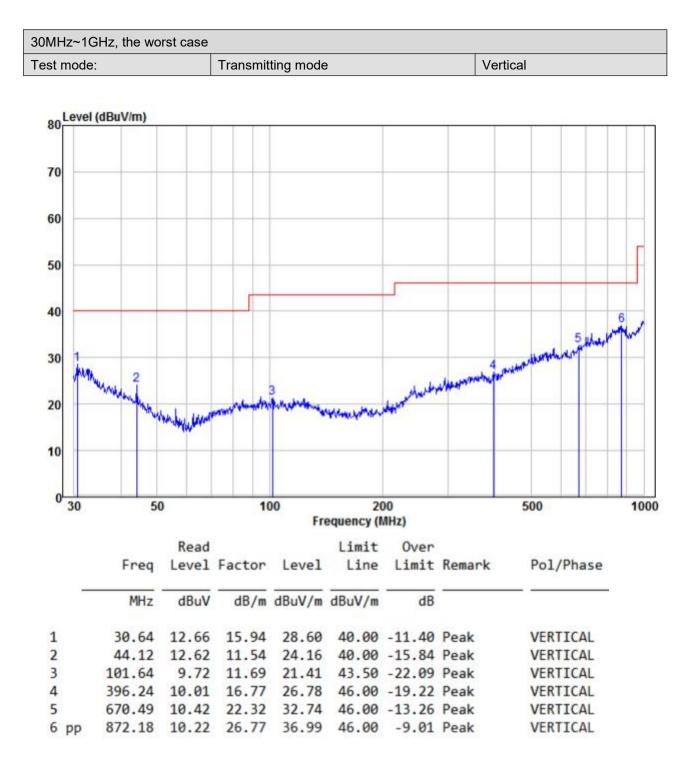
horizontal and vertical polarizations of the antenna are set to make the measurement.d.For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) 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.g.Test the EUT in the lowest channel (2402MHz), the middle channel (2440MHz), the Highest channel (2480MHz)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.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.Pass		
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.g. Test the EUT in the lowest channel (2402MHz), the middle channel (2440MHz), the Highest channel (2480MHz)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.Final Test Mode:Final Test Mode:Only the worst case is recorded in the report.Only the worst case is recorded in the report.		·
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.g.Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz)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.Transmitting mode.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.		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
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Mode: 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.		i. Repeat above procedures until all frequencies measured was complete.
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.		•
channel. Only the worst case is recorded in the report.	Final Test Mode:	o
		For below 1GHz part, through pre-scan, the worst case is the highest channel.
Test Results: Pass		Only the worst case is recorded in the report.
	Test Results:	Pass

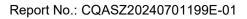


Radiated Emission below 1GHz









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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	55.79	-9.2	46.59	74	-27.41	Peak	Н
2400	55.38	-9.39	45.99	74	-28.01	Peak	Н
4804	51.44	-4.33	47.11	74	-26.89	Peak	Н
7206	48.91	1.01	49.92	74	-24.08	Peak	Н
2390	53.58	-9.2	44.38	74	-29.62	Peak	V
2400	50.45	-9.39	41.06	74	-32.94	Peak	V
4804	54.49	-4.33	50.16	74	-23.84	Peak	V
7206	48.68	1.01	49.69	74	-24.31	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	53.05	-4.11	48.94	74	-25.06	peak	Н
7320	50.78	1.51	52.29	74	-21.71	peak	Н
4880	52.39	-4.11	48.28	74	-25.72	peak	V
7320	48.30	1.51	49.81	74	-24.19	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	55.44	-9.29	46.15	74	-27.85	Peak	Н
4960	51.86	-4.04	47.82	74	-26.18	Peak	Н
7440	49.84	1.57	51.41	74	-22.59	Peak	Н
2483.5	56.94	-9.29	47.65	74	-26.35	Peak	V
4960	50.93	-4.04	46.89	74	-27.11	Peak	V
7440	48.93	1.57	50.50	74	-23.50	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

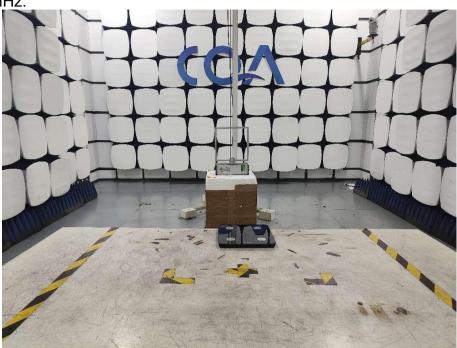
2) Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified 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

9kHz~30MHz:



30MHz~1GHz:



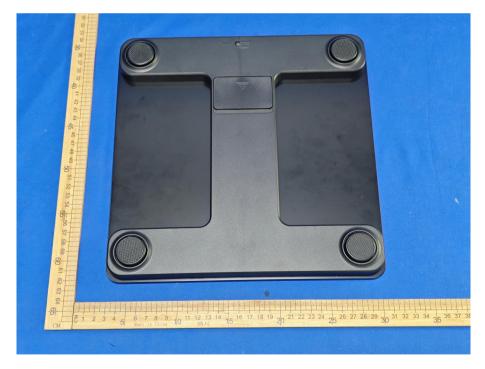




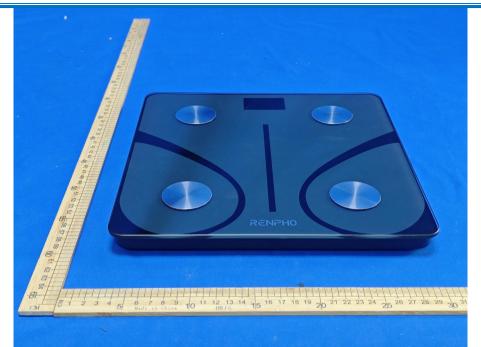


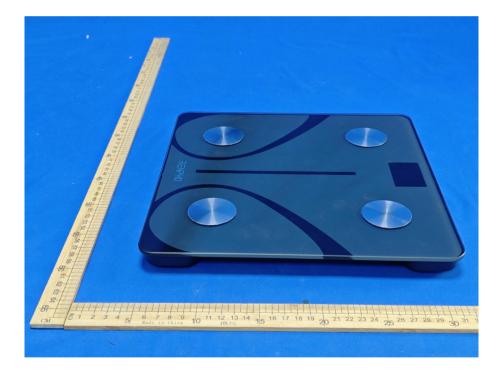
7 Photographs - EUT Constructional Details



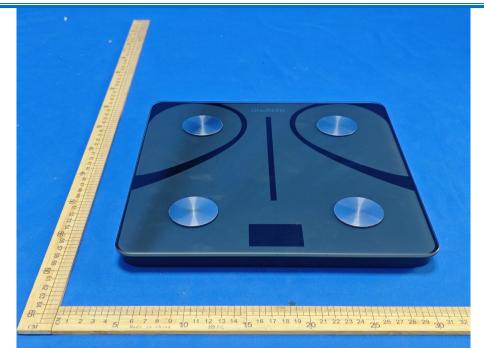


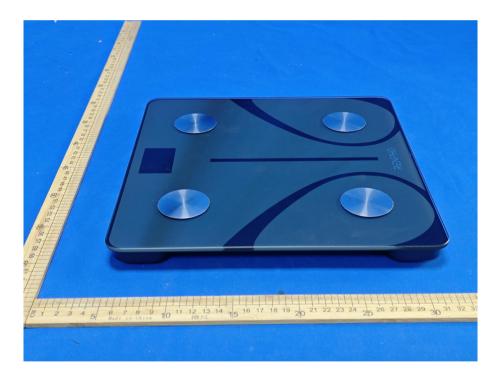






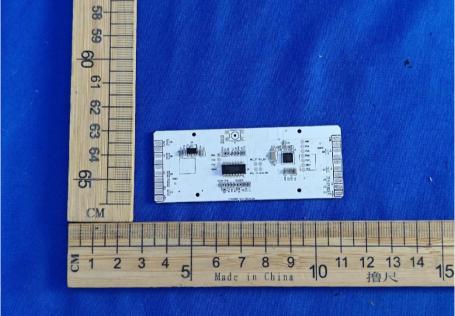






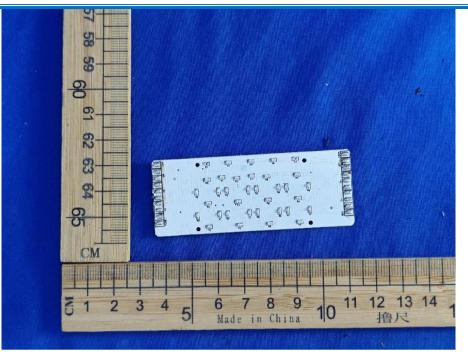


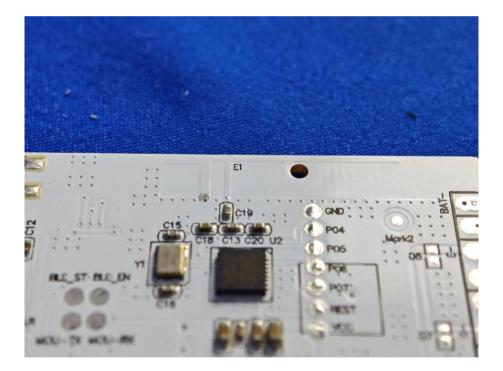






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*** END OF REPORT ***