

### Shenzhen Huaxia Testing Technology Co., Ltd.

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

# **Test Report**

Report No.: Applicant:	CQASZ20240902021E-01 Hesung Innovation Limited				
Address of Applicant:	Room 803, Chevalier House, 45-51 Chatham Road South, Tsim Sha Tsui, Kowloon, HongKong				
Equipment Under Test (E	UT):				
Product:	Smart Tower Fan				
Model No.:	DR-HTF018S, WDR-TF018S, DTTF18S, DBTF18S, DCTF18S, DWTF18S, DOTF18S				
Test Model No.:	DR-HTF018S				
Brand Name:	DREO, DREO HOME				
FCC ID:	2A3SYHTF018				
Standards:	47 CFR Part 15, Subpart C				
	KDB558074 D01 15.247 Meas Guidance v05r02				
	ANSI C63.10:2013				
Date of Receipt:	2024-09-19				
Date of Test:	2024-09-19 to 2024-09-29				
Date of Issue:	2024-10-08				
Test Result:	PASS*				
*In the configuration test	*In the configuration tested, the EUT complied with the standards specified above.				

 Tested By:

 (Lewis Zhou)
 (Lewis Zhou)
 (Timo Lei)
 (Timo Lei)
 A Lex
 (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
CQASZ20240902021E-01	Rev.01	Initial report	2024-10-08



# 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	PASS
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



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# 4 General Information

### 4.1 Client Information

Applicant:	Hesung Innovation Limited
Address of Applicant:	Room 803, Chevalier House, 45-51 Chatham Road South, Tsim Sha Tsui, Kowloon, HongKong
Manufacturer:	Shenzhen Hesung Innovation Technology Co., LTD
Address of Manufacturer:	26th Floor, Building A7, Chuangzhiyuncheng, Liuxian Avenue, NanshanDistrict,Shenzhen
Factory:	Shenzhen Hesung Innovation Technology Co., LTD
Address of Factory:	26th Floor, Building A7, Chuangzhiyuncheng, Liuxian Avenue, NanshanDistrict,Shenzhen

# 4.2 General Description of EUT

Product Name:	Smart Tower Fan
Model No.:	DR-HTF018S, WDR-TF018S, DTTF18S, DBTF18S, DCTF18S, DWTF18S, DOTF18S
Test Model No.:	DR-HTF018S
Trade Mark:	DREO, DREO HOME
Software Version:	V1.0
Hardware Version:	PAI-051 V1.2 20210824
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V5.2
Modulation Type:	GFSK
Transfer Rate:	1Mbps
Number of Channel:	40
Product Type:	🛛 Mobile 🗌 Portable
Test Software of EUT:	Beken WIFI Test Tool V1.7.2
Antenna Type:	FPC antenna
Antenna Gain:	5.6dBi
EUT Power Supply:	Power supply AC120V
Simultaneous Transmission	☐ Simultaneous TX is supported and evaluated in this report.
	Simultaneous TX is not supported.



Operation F	requency each o	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:	$\boxtimes$ Special software is used.	Special software is used.				
		☐ Through engineering command into the engineering mode. engineering command: *#*#3646633#*#*				
EUT Power level:	Class2 (Power level is built-in set para selected)	ameters and cannot be changed and				
Use test software to set the	Use test software to set the lowest frequency, the middle frequency and the highest frequency keep					
transmitting of the EUT.		1				
Mode	Mode Channel Frequency(MHz)					
	CH0 2402					
GFSK	GFSK CH19 2440					
	CH39 2480					

#### Run Software:

Control	Setting	TX Setting		TX Packet Setup	
MAC Address	Channel 2402	- cw	FALSE +	BLE Pa	ttern
		MHz FCC/CE	FALSE +	Continuous PF	RBS9 -
Wlan Mode	Bandwidth 20	MHz Temp Cal	FALSE -	Mode	Length
Testing Item	Data Rate MCS8	- TXPwr	Auto 💌		Auto 👻
Bluetooth - Tx	Mode VHT(11ac)	🚽 🗸 Xtal C	Auto 💌	BLE RX Packet -	
Start Stop		Save	Xtal C in Flash	PER	
RX Packet Counter Test Mode Continuous - Interval 2 -	View Window				
Single Reset					
Hex Send					
Hex					



### 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
/	/	/	/	/
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	2024/9/2	2025/9/1
Spectrum analyzer	R&S	FSU26	CQA-038	2024/9/2	2025/9/1
Spectrum analyzer	R&S	FSU40	CQA-075	2024/9/2	2025/9/1
Preamplifier	MITEQ	AFS4-00010300-18- 10P-4	CQA-035	2024/9/2	2025/9/1
Preamplifier	MITEQ	AMF-6D-02001800- 29-20P	CQA-036	2024/9/2	2025/9/1
Preamplifier	EMCI	EMC184055SE	CQA-089	2024/9/2	2025/9/1
Loop antenna	Schwarzbeck	FMZB1516	CQA-060	2023/9/8	2026/9/7
Bilog Antenna	R&S	HL562	CQA-011	2023/11/01	2026/10/31
Horn Antenna	R&S	HF906	CQA-012	2023/11/01	2026/10/31
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2023/9/7	2026/9/6
Coaxial Cable (Above 1GHz)	CQA	N/A	C007	2024/9/2	2025/9/1
Coaxial Cable (Below 1GHz)	CQA	N/A	C013	2024/9/2	2025/9/1
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2024/9/2	2025/9/1
Antenna Connector	CQA	RFC-01	CQA-080	2024/9/2	2025/9/1
Power Sensor	KEYSIGHT	U2021XA	CQA-30	2024/9/2	2025/9/1
N1918A Power Analysis Manager Power Panel	Agilent	N1918A	CQA-074	2024/9/2	2025/9/1
Power meter	R&S	NRVD	CQA-029	2024/9/2	2025/9/1
Power divider	MIDWEST	PWD-2533-02-SMA- 79	CQA-067	2024/9/2	2025/9/1
EMI Test Receiver	R&S	ESR7	CQA-005	2024/9/2	2025/9/1
LISN	R&S	ENV216	CQA-003	2024/9/2	2025/9/1
Coaxial cable	CQA	N/A	CQA-C009	2024/9/2	2025/9/1
DC power	KEYSIGHT	E3631A	CQA-028	2024/9/2	2025/9/1

#### 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)

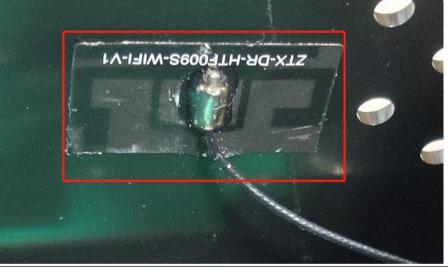
#### 15.203 requirement:

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 FPC antenna.

The connection/connection type between the antenna to the EUT's antenna port is: unique coupling. This is either permanently attachment or a unique coupling that satisfies the requirement.



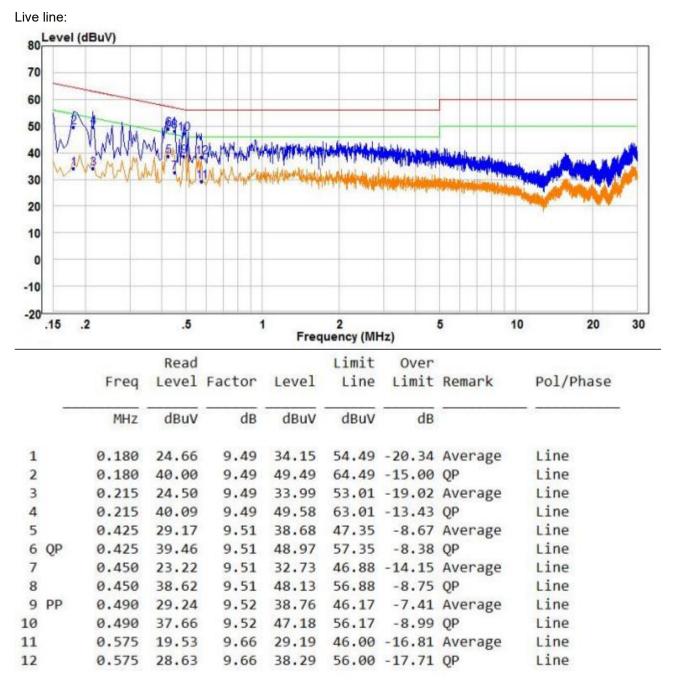
Test Requirement:	47 CFR Part 15C Section 15.207					
Test Method:	ANSI C63.10: 2013					
Test Frequency Range:	150kHz to 30MHz					
Limit:	Limit (dBuV)					
	Frequency range (MHz)	Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	* Decreases with the logarithm of	f the frequency.				
Test Procedure:	1) The mains terminal disturt room.	oance voltage test was	s conducted in a shielded			
	<ol> <li>2) The EUT was connected to Impedance Stabilization Na- impedance. The power call connected to a second LIS reference plane in the sam measured. A multiple sock power cables to a single LI exceeded.</li> <li>3) The tabletop EUT was place ground reference plane. An placed on the horizontal gr</li> <li>4) The test was performed with of the EUT shall be 0.4 m f vertical ground reference p reference plane. The LISN unit under test and bonded mounted on top of the grou between the closest points the EUT and associated ec</li> <li>5) In order to find the maximu equipment and all of the int ANSI C63.10: 2013 on con</li> </ol>	etwork) which provides oles of all other units of N 2, which was bonde e way as the LISN 1 for et outlet strip was used SN provided the rating and for floor-standing ar ound reference plane, th a vertical ground ref from the vertical ground ref from the vertical ground ref and to a ground reference and reference plane. The of the LISN 1 and the quipment was at least ( an emission, the relative terface cables must be	a 50Ω/50µH + 5Ω linear f the EUT were d to the ground or the unit being d to connect multiple g of the LISN was not c table 0.8m above the rangement, the EUT was erence plane. The rear d reference plane. The e horizontal ground om the boundary of the e plane for LISNs his distance was EUT. All other units of 0.8 m from the LISN 2. re positions of			



Test Setup:	Shielding Room Test Receiver Test Receiver Test Receiver LISN2 AC Mains Ground Reference Plane
Test Mode:	Through Pre-scan, find the transmitting mode at the lowest channel is the worst case.
Test Voltage:	AC 120V/60Hz
Test Results:	Pass



#### **Measurement Data**



Remark:

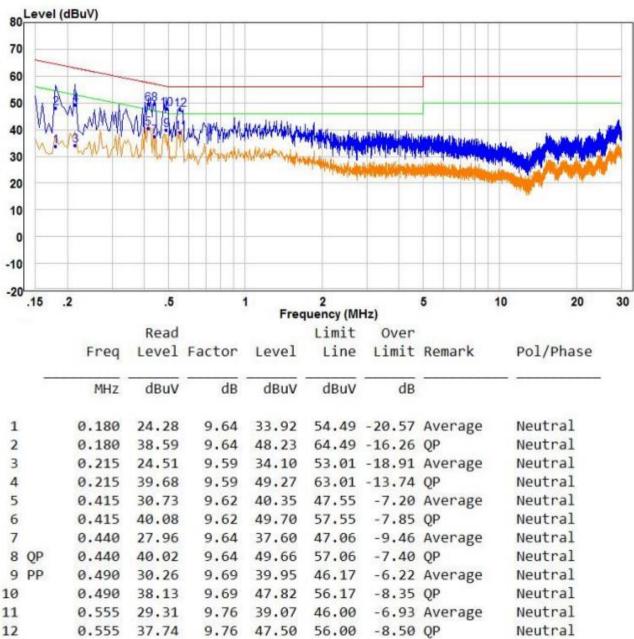
1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

3. If the Peak value under Average limit, the Average value is not recorded in the report.



Neutral line:



Remark:

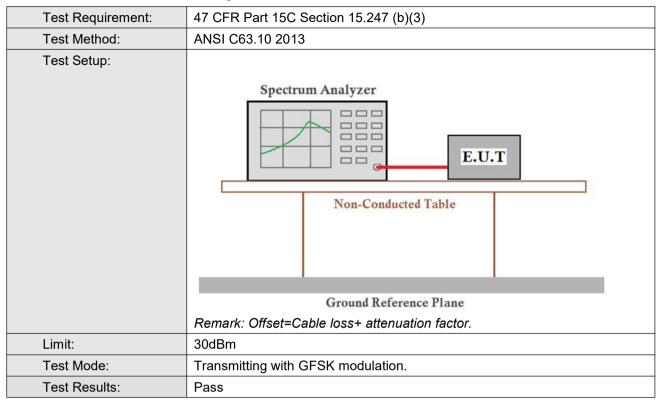
1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

3. If the Peak value under Average limit, the Average value is not recorded in the report.



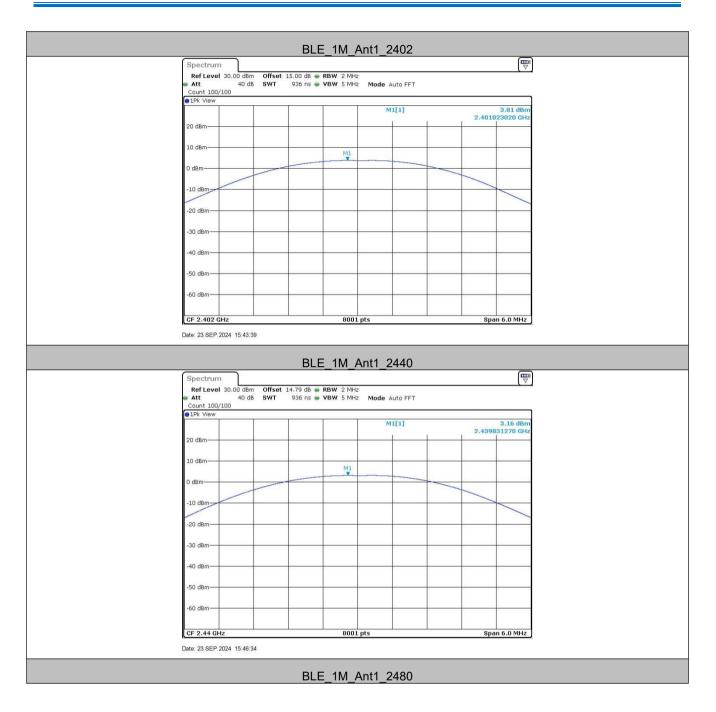
### 5.3 Conducted Peak Output Power



#### Measurement Data

GFSK mode (1Mbps)						
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	3.81	30.00	Pass			
Middle	3.16	30.00	Pass			
Highest	3.63	30.00	Pass			





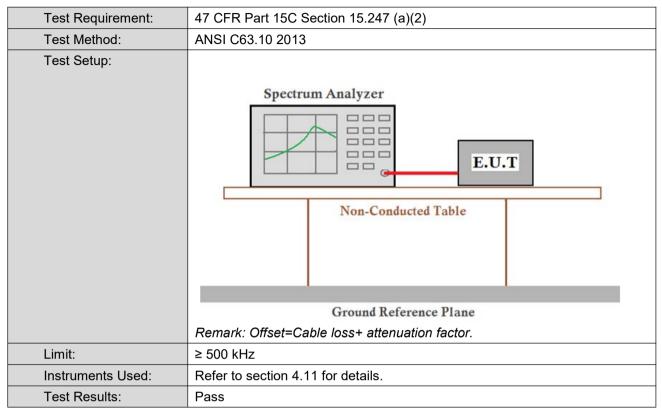


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🕳 Att 🛛 40 dB SW	set 14.79 dB 🖷 RBW 2 MHz T 936 ns 🖷 VBW 5 MHz Mode Auto FFT		
Count 100/100 PIPk View		1	
	M1[1]	3.63 dBm 2.479758530 GHz	
20 dBm			
10 dBm	MI		
0 dBm			
-10 dBm			
-20 dBm			
-30 dBm			
-40 dBm			
-50 dBm			
-60 dBm			
-00 ubii			
CF 2.48 GHz	8001 pts	Span 6.0 MHz	



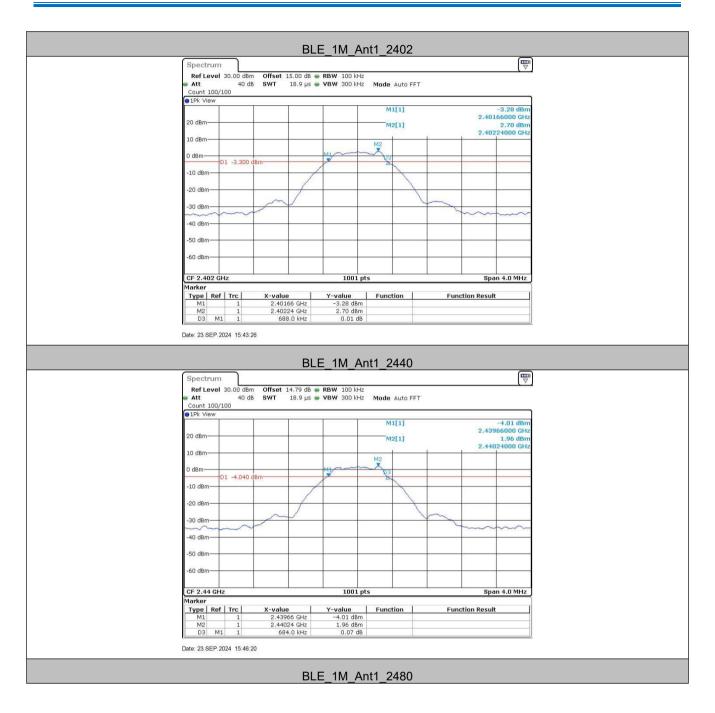
### 5.4 6dB Occupy Bandwidth



#### **Measurement Data**

GFSK mode (1Mbps)						
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result			
Lowest	0.69	≥500	Pass			
Middle	0.68	≥500	Pass			
Highest	0.69	≥500	Pass			





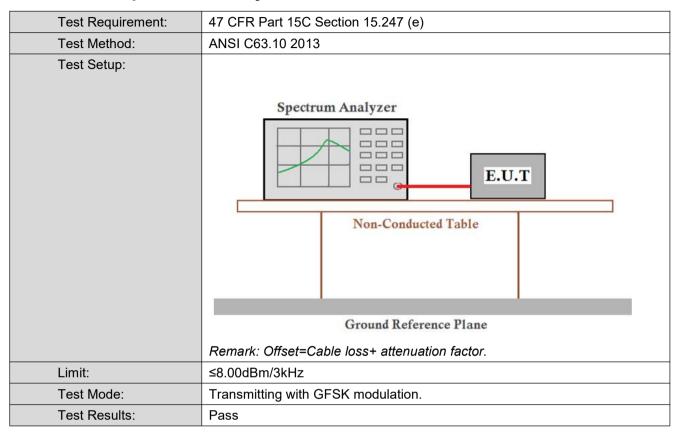


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Spectrum Ref Level 30.0	DD dBm	Offset 14.79 dB	BBW 100 kHz					[₩
Att		SWT 18.9 µs			OFFT			
Count 100/100				niouo nuo				
91Pk View								
				M1[1]	1			-3.50 dBm
20 dBm-								66000 GHz
20 dBm-				M2[1]	1			2.50 dBm
10 dBm						i i i	2.480	24000 GHz
10 000				M2				
0 dBm			MI	~				
	3.500 dBn	m		X				
-10 dBm			1	1				
		1						
-20 dBm			-		1			
-30 dBm		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				-		
	~					~	~	~~~
-40 dBm			-				-	
200 IS								
-50 dBm				-				
-60 dBm								
-60 dBm		6.						
CF 2.48 GHz			1001 p	ts			Spar	n 4.0 MHz
Marker								
Type   Ref   Tr		X-value	Y-value	Function	E .	Fund	tion Result	
M1 M2	1	2.47966 GHz 2.48024 GHz	-3.50 dBm 2.50 dBm		_			
	1	688.0 kHz	0.00 dB		-			



### 5.5 Power Spectral Density

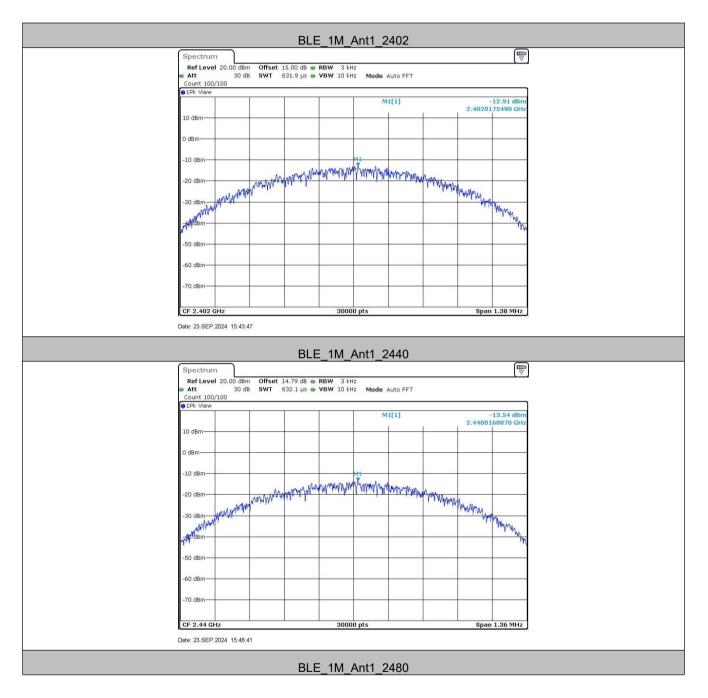


#### Measurement Data

GFSK mode (1Mbps)							
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result				
Lowest	-12.91	≤8.00	Pass				
Middle	-13.54	≤8.00	Pass				
Highest	-13.2	≤8.00	Pass				

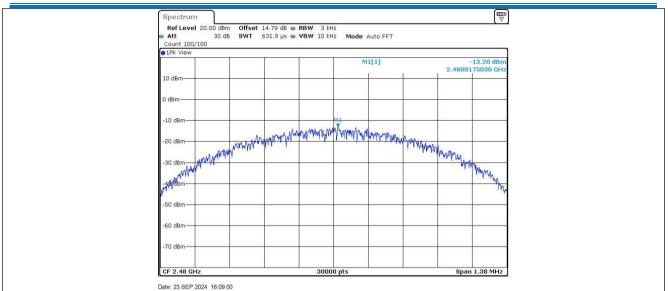


#### Test plot as follows:



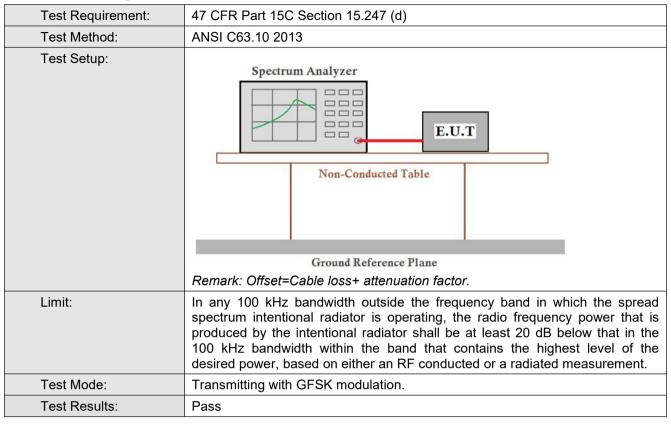


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### 5.6 Band-edge for RF Conducted Emissions

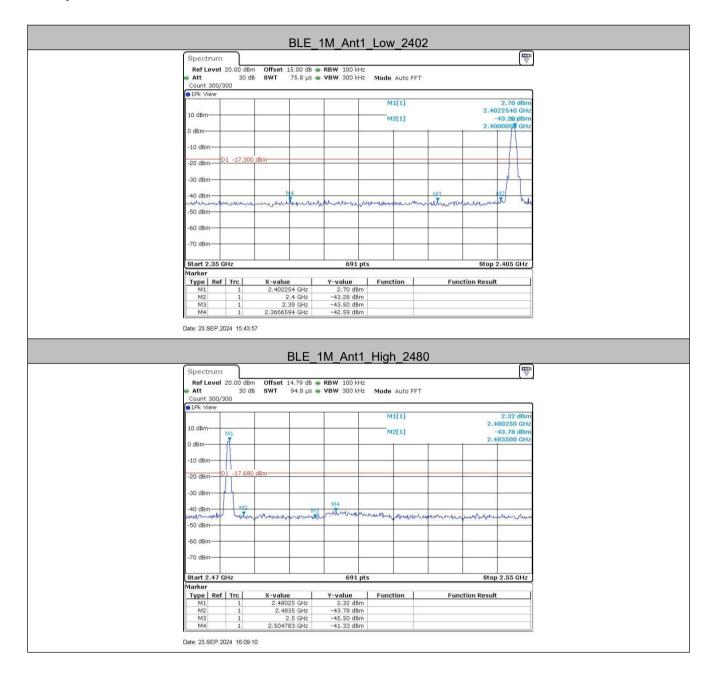


TestMode	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
	Low	2402	2.70	-42.59	≤-17.3	PASS
BLE_1M	High	2480	2.32	-41.33	≤-17.68	PASS

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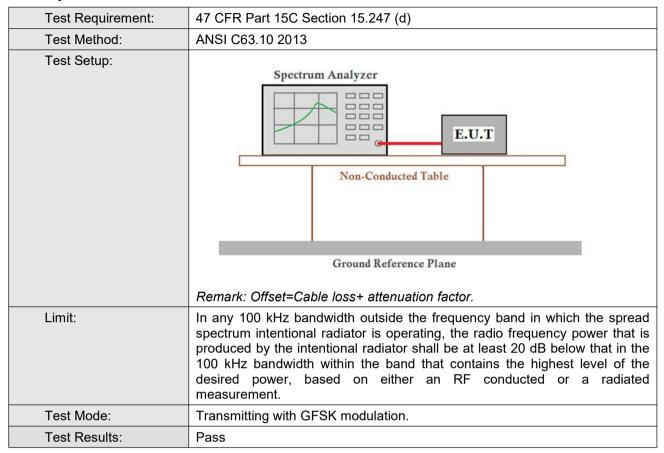


#### Test plot as follows:



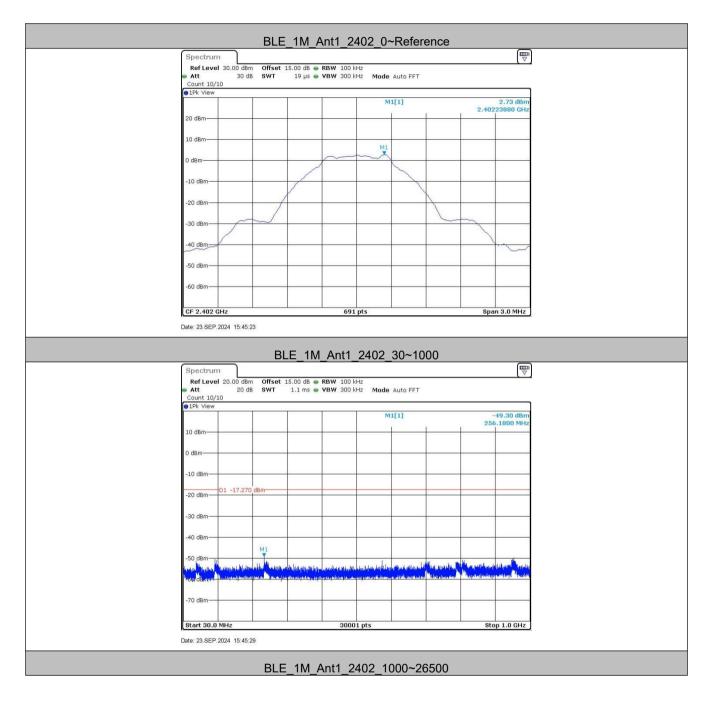


### 5.7 Spurious RF Conducted Emissions



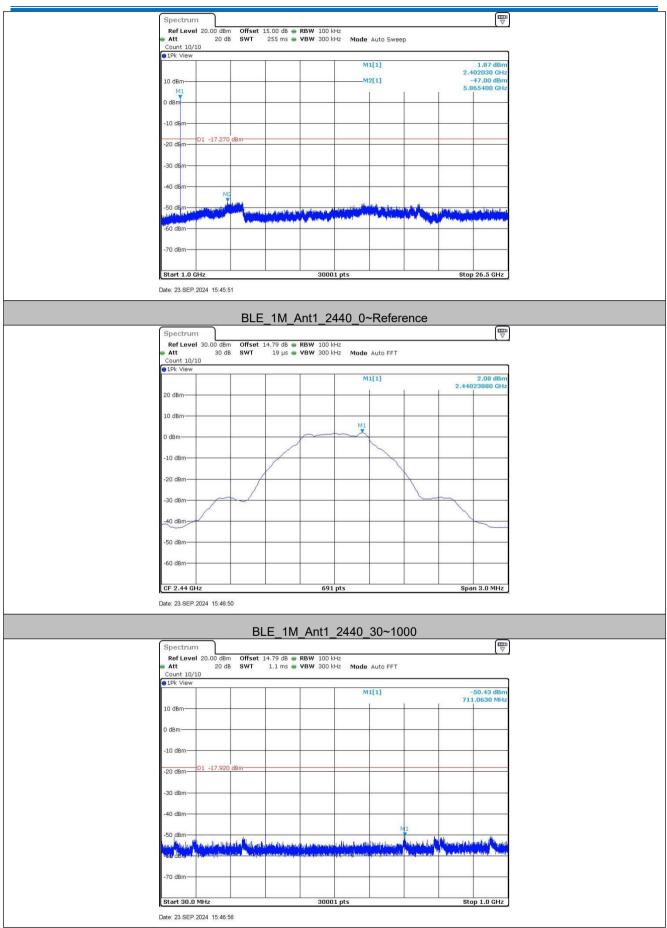


#### Test plot as follows:

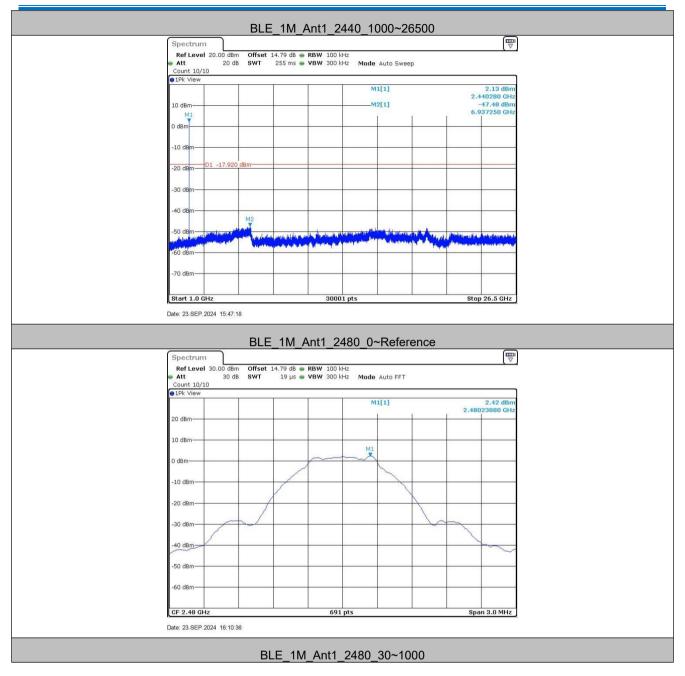




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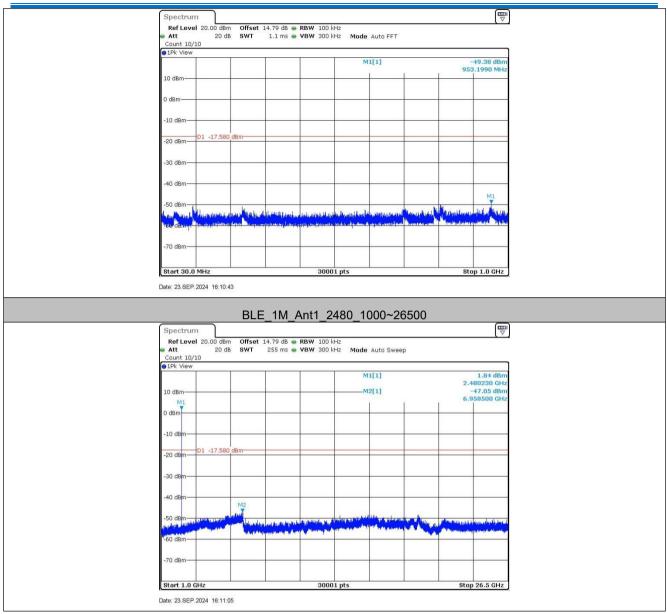






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#### Remark:

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.



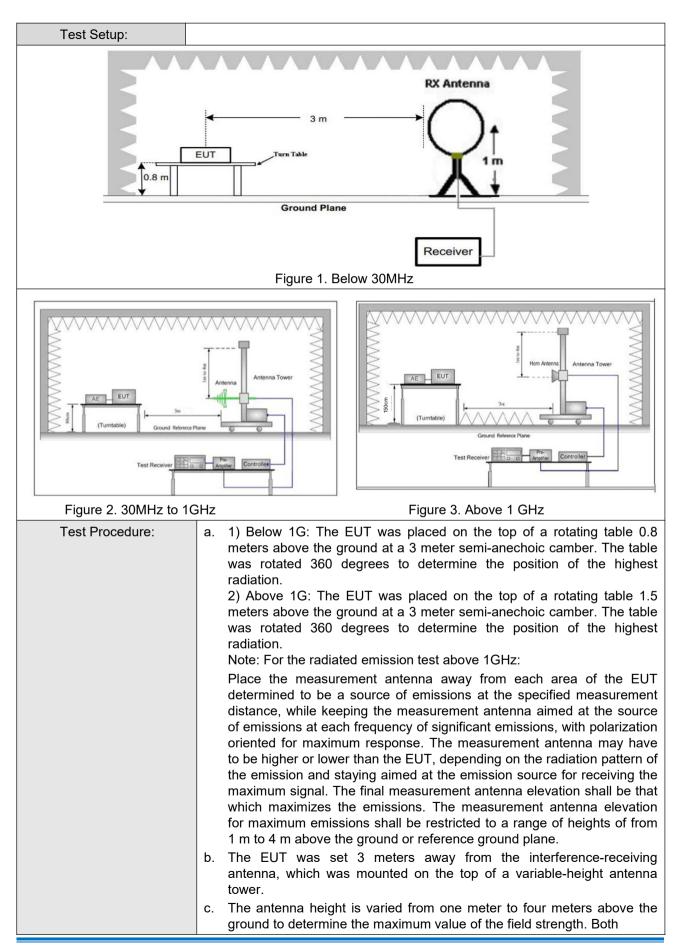
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# 5.8 Radiated Spurious Emission & Restricted bands

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205								
Test Method:	ANSI C63.10 2013								
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)								
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	z 300kHz	Quasi-peak			
	Above 1GHz		Peak	1MHz	3MHz	Peak			
	Above IGH2		Peak	1MHz	10Hz	Average			
Limit:	Frequency		eld strength crovolt/meter)	Limit (dBuV/m)	Remark	Measureme 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.								



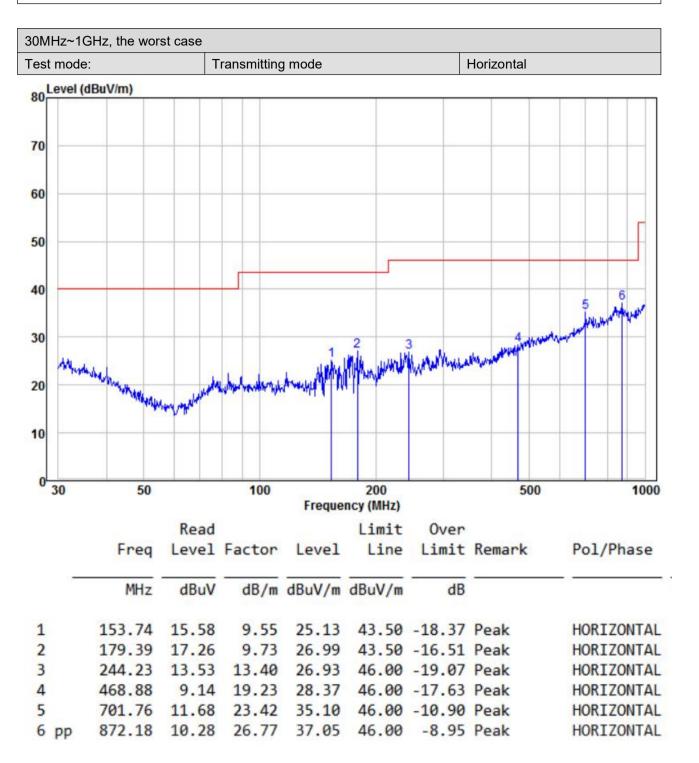




	horizontal and vertical polarizations of the antenna are set to make the measurement.
	d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) 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.
	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.
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

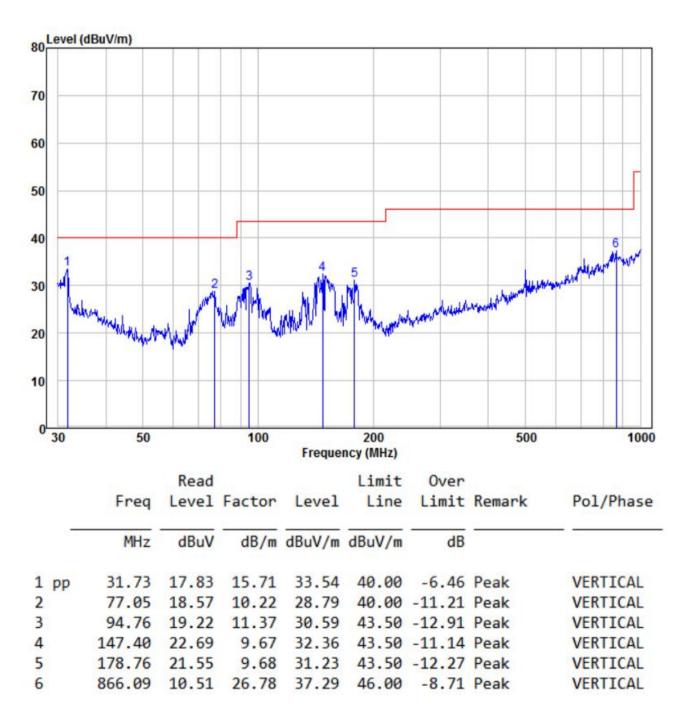


#### Radiated Emission below 1GHz





30MHz~1GHz, the worst case					
Test mode:	Transmitting mode	Vertical			





#### Transmitter Emission above 1GHz

Worse case m	se 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	54.11	-9.2	44.91	74	-29.09	Peak	Н
2400	55.04	-9.39	45.65	74	-28.35	Peak	Н
4804	52.27	-4.33	47.94	74	-26.06	Peak	Н
7206	49.82	1.01	50.83	74	-23.17	Peak	Н
2390	54.10	-9.2	44.90	74	-29.10	Peak	V
2400	51.38	-9.39	41.99	74	-32.01	Peak	V
4804	52.29	-4.33	47.96	74	-26.04	Peak	V
7206	50.40	1.01	51.41	74	-22.59	Peak	V

Worse case m	ode:	GFSK(1Mbps	s)	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	52.76	-4.11	48.65	74	-25.35	peak	Н
7320	49.40	1.51	50.91	74	-23.09	peak	Н
4880	52.10	-4.11	47.99	74	-26.01	peak	V
7320	50.87	1.51	52.38	74	-21.62	peak	V

Worse case m	ode:	GFSK(1Mbp	s)	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	55.19	-9.29	45.90	74	-28.10	Peak	Н
4960	51.26	-4.04	47.22	74	-26.78	Peak	Н
7440	49.83	1.57	51.40	74	-22.60	Peak	Н
2483.5	57.10	-9.29	47.81	74	-26.19	Peak	v
4960	50.56	-4.04	46.52	74	-27.48	Peak	V
7440	51.12	1.57	52.69	74	-21.31	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:

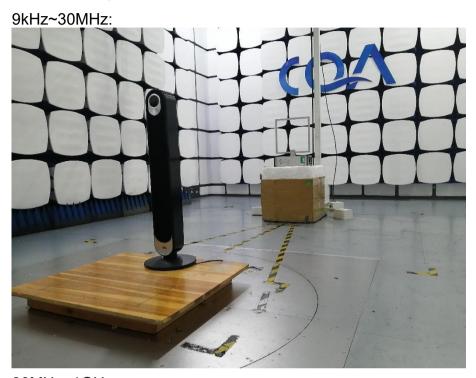
Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

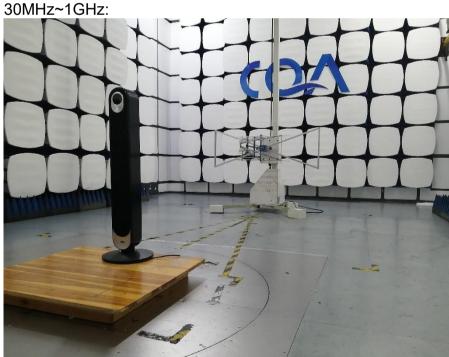
2) Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified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

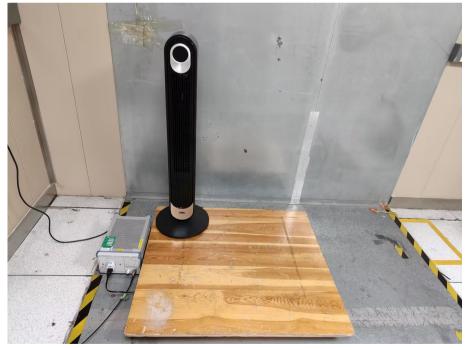








6.2 Conducted Emissions Test Setup





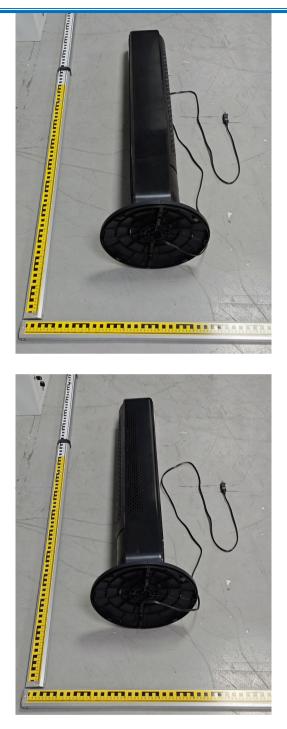
# 7 Photographs - EUT Constructional Details







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