

Global United Technology Services Co., Ltd.

Report No.: GTSL2024040285F01

TEST REPORT

Applicant: ZHONGSHAN TAOLIELECTRIC APPLIANCE CO., LTD

Address of Applicant: Building B, 5th Floor, No. 6 Qinglong Avenue, Xinmao Industrial

Zone, Henglan Town, Zhongshan City

ZHONGSHAN TAOLIELECTRIC APPLIANCE CO., LTD Manufacturer/Factory:

Address of Building B, 5th Floor, No. 6 Qinglong Avenue, Xinmao Industrial

Zone, Henglan Town, Zhongshan City Manufacturer/Factory:

Equipment Under Test (EUT)

Remote Controller **Product Name:**

YKB9, YKYS, YKWS Model No.:

2BF9Q-YKB9 FCC ID:

FCC CFR Title 47 Part 15 Subpart C Section 15.231 **Applicable standards:**

Date of sample receipt: April 12, 2024

April 12, 2024-May 14, 2024 Date of Test:

Date of report issued: May 14, 2024

PASS * **Test Result:**

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

Authorized Signature:

Robinson Luo Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.



2 Version

Version No.	Date	Description
00	May 14, 2024	Original

Prepared By:	Joseph Du	Date:	May 14, 2024
	Project Engineer		
Check By:	Reviewer	Date:	May 14, 2024



3 Contents

			Page
1	COVI	ER PAGE	1
2	VED	SION	
_	VER	SION	2
3	CON	ITENTS	3
4	TEC	T SUMMARY	
4			
	4.1	MEASUREMENT UNCERTAINTY	4
5	GEN	IERAL INFORMATION	5
	5.1	GENERAL DESCRIPTION OF EUT	5
	5.2	TEST MODE	
	5.3	DESCRIPTION OF SUPPORT UNITS	6
	5.4	TEST FACILITY	
	5.5	TEST LOCATION	
	5.6	OTHER INFORMATION REQUESTED BY THE CUSTOMER	
	5.7	DEVIATION FROM STANDARDS	
	5.8	ABNORMALITIES FROM STANDARD CONDITIONS	
	5.9	ADDITIONAL INSTRUCTIONS	
6	TES	T INSTRUMENTS LIST	7
Š			
7	TES	T RESULTS AND MEASUREMENT DATA	
	7.1	ANTENNA REQUIREMENT	
	7.2	RADIATED EMISSION METHOD	
	7.2.		
		2 Spurious Emissions	
	7.3	20DB OCCUPY BANDWIDTH	
	7.4	DWELL TIME	
	7.5	DUTY CYCLE	
8	TES	T SETUP PHOTO	21
9	FUT	CONSTRUCTIONAL DETAILS	21



4 Test Summary

Test Item	Section in CFR 47	Result
Antenna Requirement	15.203	Pass
Conduction Emission	15.207	Pass
Field strength of the Fundamental Signal	15.231 (b)	Pass
Spurious Emissions	15.231 (b)/15.209	Pass
20dB Bandwidth	15.231 (c)	Pass
Dwell Time	15.231 (a)(1)	Pass

Pass: The EUT complies with the essential requirements in the standard.

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	30MHz-200MHz	3.8039dB	(1)
Radiated Emission	200MHz-1GHz	3.9679dB	(1)
Radiated Emission	1GHz-18GHz	4.29dB	(1)
Radiated Emission	18GHz-40GHz	3.30dB	(1)
Note (1): The measurement unce	rtainty is for coverage factor of k	=2 and a level of confidence of 9	95%.



5 General Information

5.1 General Description of EUT

Product Name:	Remote Controller
Model No.:	YKB9, YKYS, YKWS
Remark: All above models are	identical in the same PCB layout, interior structure and electrical circuits,
but different module names an	d code values and printings for commercial purpose.
Serial No.:	N/A
Test sample(s) ID:	GTSL2024040285-1
Sample(s) Status:	Engineer sample
Operation Frequency:	433.92MHz
Modulation technology:	ASK
Antenna Type:	PCB Antenna
Antenna gain:	0dBi
Power supply:	DC 3.0V

Remark:

- 1. Antenna gain information provided by the customer
- 2. The relevant information of the sample is provided by the entrusting company, and the laboratory is not responsible for its authenticity.



5.2 Test mode

Transmitting mode	Keep the EUT in transmitting mode.
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Per-test mode.

We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which only the worst case was shown in this test report and defined as follows:

	Axis	Χ	Υ	Z
433.92MHz	Field Strength(dBuV/m)	71.26	72.73	70.47

5.3 Description of Support Units

None.

5.4 Test Facility

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

• FCC—Registration No.: 381383

Designation Number: CN5029

Global United Technology Services 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 files.

• ISED —Registration No.: 9079A

CAB identifier: CN0091

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of ISED for radio equipment testing

• NVLAP (LAB CODE:600179-0)

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).

5.5 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone,

Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480 Fax: 0755-27798960

5.6 Other Information Requested by the Customer

None.

5.7 Deviation from Standards

None.

5.8 Abnormalities from Standard Conditions

None.

5.9 Additional instructions

Software (Used for test) from client

Mode	Special test SW was built-in by manufacturer.	
Power set	Default	

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



6 Test Instruments list

Destination of the state of the							
Radia	Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	June 23, 2021	June 22, 2024	
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A	
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	April 11, 2024	April 10, 2025	
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9168	GTS640	March 19, 2023	March 18, 2025	
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	April 17, 2023	April 16, 2025	
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
7	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	April 11, 2024	April 10, 2025	
8	Loop Antenna	ZHINAN	ZN30900A	GTS534	Nov. 13, 2023	Nov.12, 2024	
9	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	April 11, 2024	April 10, 2025	
10	Amplifier(1GHz-26.5GHz)	HP	8449B	GTS601	April 11, 2024	April 10, 2025	
11	Horn Antenna (18- 26.5GHz)	1	UG-598A/U	GTS664	Oct. 29, 2023	Oct. 28, 2024	
12	Horn Antenna (26.5-40GHz)	A.H Systems	SAS-573	GTS665	Oct. 29, 2023	Oct. 28, 2024	
13	FSV·Signal Analyzer (10Hz-40GHz)	Keysight	FSV-40-N	GTS666	March 12, 2024	March 11, 2025	
14	Amplifier	1	LNA-1000-30S	GTS650	April 11, 2024	April 10, 2025	
15	CDNE M2+M3-16A	HCT	30MHz-300MHz	GTS692	Nov. 08, 2023	Nov.07, 2024	
16	Wideband Amplifier	1	WDA-01004000-15P35	GTS602	April 11, 2024	April 10, 2025	
17	Thermo meter	JINCHUANG	GSP-8A	GTS643	April 18, 2024	April 17, 2025	
18	RE cable 1	GTS	N/A	GTS675	July 31. 2023	July 30. 2024	
19	RE cable 2	GTS	N/A	GTS676	July 31. 2023	July 30. 2024	
20	RE cable 3	GTS	N/A	GTS677	July 31. 2023	July 30. 2024	
21	RE cable 4	GTS	N/A	GTS678	July 31. 2023	July 30. 2024	
22	RE cable 5	GTS	N/A	GTS679	July 31. 2023	July 30. 2024	
23	RE cable 6	GTS	N/A	GTS680	July 31. 2023	July 30. 2024	
24	RE cable 7	GTS	N/A	GTS681	July 31. 2023	July 30. 2024	
25	RE cable 8	GTS	N/A	GTS682	July 31. 2023	July 30. 2024	



Conducted Emission						
Item Test Equipment		Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	July 12, 2022	July 11, 2027
2	EMI Test Receiver	R&S	ESCI 7	GTS552	April 11, 2024	April 10, 2025
3	LISN	ROHDE & SCHWARZ	ENV216	GTS226	April 11, 2024	April 10, 2025
4	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
6	Thermo meter	JINCHUANG	GSP-8A	GTS642	April 18, 2024	April 17, 2025
7	Absorbing clamp	Elektronik- Feinmechanik	MDS21	GTS229	April 11, 2024	April 10, 2025
8	ISN	SCHWARZBECK	NTFM 8158	GTS565	April 11, 2024	April 10, 2025
9	High voltage probe	SCHWARZBECK	TK9420	GTS537	April 11, 2024	April 10, 2025
10	Antenna end assembly	Weinschel	1870A	GTS560	April 11, 2024	April 10, 2025

RF C	RF Conducted Test:							
Item Test Equipment Manufa		Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	April 11, 2024	April 10, 2025		
2	EMI Test Receiver	R&S	ESCI 7	GTS552	April 11, 2024	April 10, 2025		
3	PSA Series Spectrum Analyzer	Agilent	E4440A	GTS536	April 11, 2024	April 10, 2025		
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	April 11, 2024	April 10, 2025		
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	April 11, 2024	April 10, 2025		
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	April 11, 2024	April 10, 2025		
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	April 11, 2024	April 10, 2025		
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	April 11, 2024	April 10, 2025		
9	Thermo meter	JINCHUANG	GSP-8A	GTS641	April 18, 2024	April 17, 2025		

General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Barometer	KUMAO	SF132	GTS647	April 18, 2024	April 17, 2025



7 Test results and Measurement Data

7.1 Antenna Requirement

Standard requirement: FCC Part15 C Section 15.203

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.

EUT Antenna:

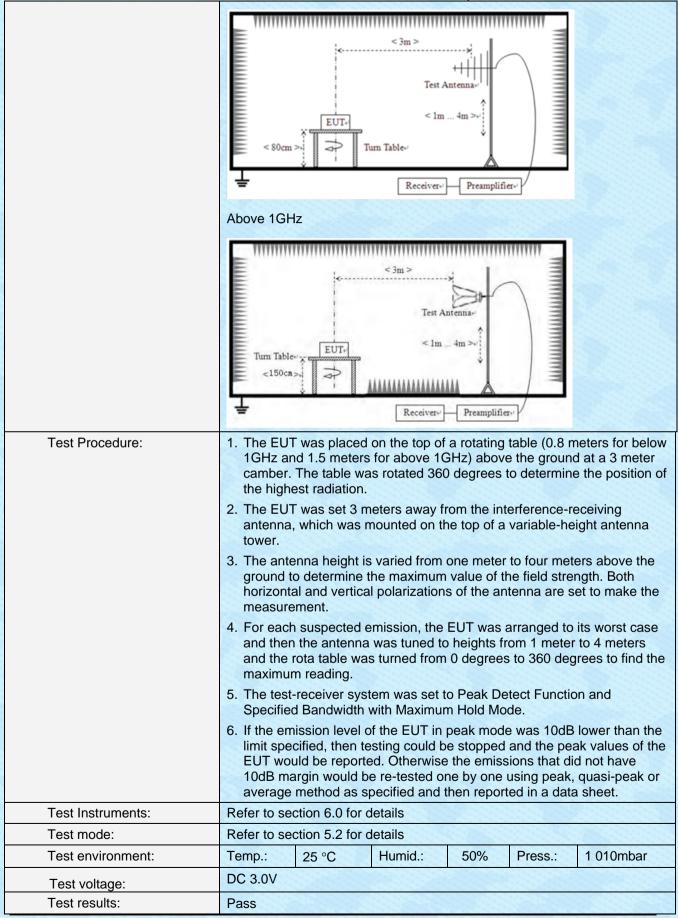
The antenna is PCB antenna, reference to the appendix II for details.



7.2 Radiated Emission Method

7.2 Radiated Emission Met	illou							
Test Requirement:	FCC Part15 C Section	on 15.23	31 (b)& S	Section 15.2	209			
Test Method:	ANSI C63.10:2013							
Test Frequency Range:	9kHz to 5000MHz							
Test site:	Measurement Distar	nce: 3m						
Receiver setup:	Frequency	Dete	ector	RBW	VB۱	Ν	Value	
	9KHz-150KHz	Quas	i-peak	200Hz	6001	Hz	Quasi-peak	
	150KHz-30MHz	Quas	i-peak	9KHz	30KI	Hz	Quasi-peak	
	30MHz-1GHz	Quas	i-peak	100KHz	300K	Hz	Quasi-peak	
	Above 1GHz	Pe	ak	1MHz	3MF	Ιz	Peak	
	Above IGHZ	Pe	ak	1MHz	10H	lz	Average	
Limit:	Frequency		Limit	(dBuV/m @	3m)		Remark	
(Field strength of the	433.92MHz			100.83 80.83			Peak Value	
fundamental signal)								
Limit:	Fundamental Frequency Field Strength of Linwanted					eld Strength of		
(Spurious Emissions)	(MHz)	испоу		ındamental	The state of the s		Emissions	
			(microvolts/meter)			(microvolts/meter)		
	40.66-40.70 70-130			1,000 500		100 50		
	130-174		500 to 1,500**			50 to 1,50**		
	174-260		1,500				1,50	
	260-470		1,500 to 5,000**			1	,50 to 5,00**	
	Above 470		5,000			5,00		
	Frequency			Class B	(dBuV	/m @	23m)	
	(MHz)		Peak			Average		
	Above 1000		74 unwanted emission level i			54		
	maximum permitted f							
	strength.		10.00					
Test setup:	Below 30MHz							
		***************************************	***********	***************************************	*********	III		
	= ''''''''	1111111111	11111111111			‴ ≡	1	
	E		< 3m >			=		
			- 5111 >	·>		=		
	Test Antenna							
	I V ∃							
	im Im							
	< 80cm >-	Turn 7	[able+ ²			=		
	Ī	и		Receiver-				
	Below 1GHz							





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Measurement data:

7.2.1 Field Strength of The Fundamental Signal

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
433.92	52.21	16.16	3.18	0.00	71.55	100.80	-29.25	Horizontal
433.92	53.39	16.16	3.18	0.00	72.73	100.80	-28.07	Vertical

Average value:

Frequency (MHz)	Peak Value (dBuV/m)	Duty cycle factor	Average value (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
433.92	71.55	-8.53	63.02	80.80	-17.78	Horizontal
433.92	72.73	-8.53	64.20	80.80	-16.60	Vertical

Remarks:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. Average value=Peak value + Duty cycle factor



7.2.2 Spurious Emissions

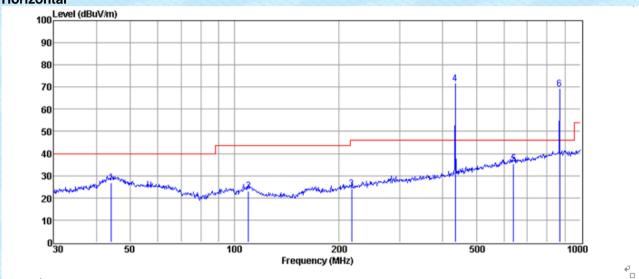
Measurement data:

9 kHz ~ 30 MHz

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

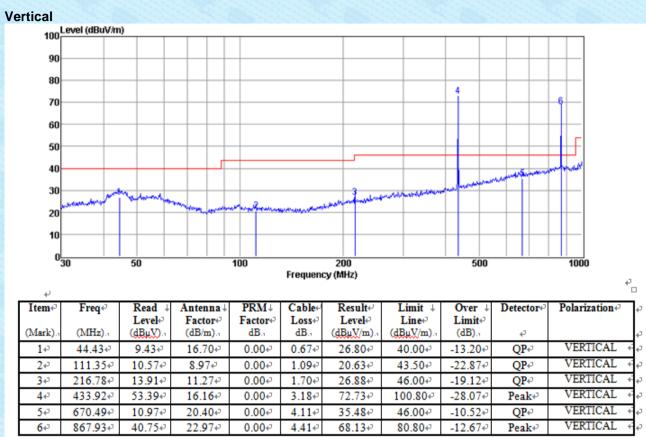
Below 1GHz:

Horizontal



Ite	em₊∍	Freq₽	Read ↓	Antenna ↓	PRM↓	Cable↔	Result⊬	Limit +	Over ↓	D etector₄ ³	Polarization -
1			Level↔	Factor₽	Factor₽	Loss↔	Level₄□	Line↩	Limit₽		
(M	ark).	(MHz).,	$(dB\mu V)_{-1}$	(dB/m).1	dB₁	dB₁	$(dB\mu V/m)$.	(dBµV/m).,	(dB).1	₽	4
	1₽	44.12₽	9.35₽	16.84₽	0.00₽	0.68₽	26.87₽	40.00₽	-13.13₽	QP₄⋾	HORIZONTAL↔
1	2₽	109.80₽	9.53₽	12.43₽	0.00₽	1.13₽	23.09₽	43.50₽	-20.41₽	QP₽	HORIZONTAL↔
3	3₽	218.31₽	11.09₽	11.33₽	0.00₽	1.70₽	24.12₽	46.00₽	-21.88₽	QP₄⋾	HORIZONTAL₽ 4
4	4₽	433.92₽	52.21₽	16.16₽	0.00₽	3.18₽	71.55₽	100.80₽	-29.25₽	Peak₽	HORIZONTAL₽ 4
- 1	5₽	640.61₽	10.65₽	20.21₽	0.00₽	4.37₽	35.23₽	46.00₽	-10.77₽	QP₄⋾	HORIZONTAL↔
(6₽	867.94₽	41.79₽	22.97₽	0.00₽	4.41₽	69.17₽	80.80₽	-11.63₽	Peak₽	HORIZONTAL 4



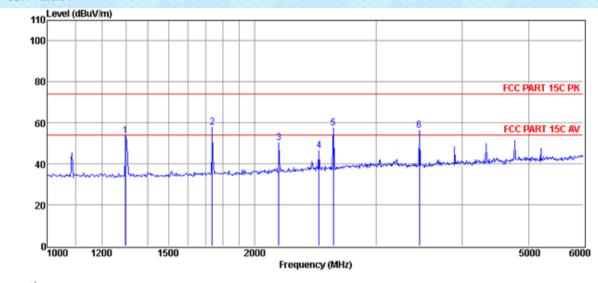




Above 1G:

Horizontal

Peak value:



Item ^₄ [□]	Freq₽	Read ↓ Level•	Antenna↓ Factor¢	PRM↓ Factor	Cable↔ Loss⇔	Result↔ Level↔	Limit ↓ Line↔	Over ↓ Limit	Detector€	Polarization< ²
(Mark).	(MHz).1	(dBuV)	(dB/m).1	dB.	dB.	(dBuV/m)	(dBuV/m)	(dB).	٠	
1↔	1299.00₽	78.72₽	25.41₽	54.38₽	4.00₽	53.75₽	74.00₽	-20.25₽	Peak∉	HORIZONTAL« ³
24□	1736.48₽	81.99₽	26.01₽	54.14₽	4.00₽	57.86₽	74.00₽	-16.14₽	Peak₄⋾	HORIZONTAL₽
3↔	2168.51₽	73.14₽	27.02₽	53.98₽	4.20₽	50.38₽	74.00₽	-23.62₽	Peak∉	HORIZONTAL« ³
4↔	2480.41₽	68.08₽	27.74₽	53.95₽	4.53₽	46.40₽	74.00₽	-27.60₽	Peak∉	HORIZONTAL¢ ³
5↔	2603.35₽	78.59₽	28.10₽	53.94₽	4.65₽	57.40₽	74.00₽	-16.60↩	Peak₄⋾	HORIZONTAL₽
64□	3467.66₽	75.51₽	29.44₽	53.81₽	5.00₽	56.14₽	74.00₽	-17.86↩	Peak↔	HORIZONTAL«

Average value:

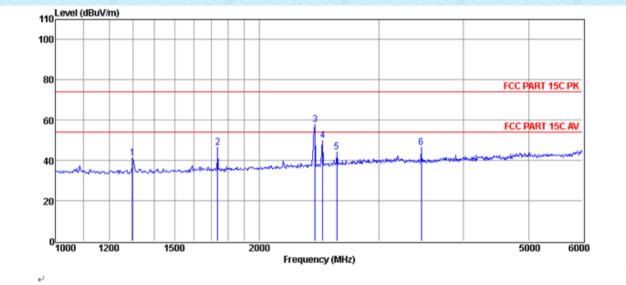
Frequency (MHz)	Level (dBuV/m)	Duty cycle factor	Average value (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
1736.48	57.86	-8.53	49.33	54.00	-4.67	Horizontal
2480.41	46.40	-8.53	37.87	54.00	-16.13	Horizontal
2603.35	57.40	-8.53	48.87	54.00	-5.13	Horizontal
3467.66	56.14	-8.53	47.61	54.00	-6.39	Horizontal



Vertical

Report No.: GTSL2024040285F01

Peak value:



Item↔	Freq₽	Read ↓	Antenna↓	PRM+	Cable⊬	Result↓ Level↓	Limit ↓	Over ↓ Limit	Detector€	Polarization <i>€</i>	7
(Mark).	(MHz).1	Level⊷ (dBµV).,	Factor (dB/m).	Factor⊕ dB.,	Loss↔ dB.₁	(dBuV/m).	Line⊄ (dBµV/m).,	(dB).₁	₽		
1₽	1299.00₽	66.17₽	25.41₽	54.38₽	4.00₽	41.20₽	74.00₽	-32.80₽	Peak↔	VERTICAL	₩.
2↩	1736.48₽	70.60₽	26.01₽	54.14₽	4.00₽	46.47₽	74.00₽	-27.53₽	Peak↔	VERTICAL	₩.
3₽	2418.96₽	79.67₽	27.60₽	53.96₽	4.47₽	57.78₽	74.00₽	-16.22₽	Peak↔	VERTICAL	₩.
4₽	2480.41₽	71.73₽	27.74₽	53.95₽	4.53₽	50.05₽	74.00₽	-23.95₽	Peak↔	VERTICAL	₹,
54□	2603.35₽	65.39₽	28.10₽	53.94₽	4.65₽	44.20₽	74.00₽	-29.80₽	Peak↔	VERTICAL	₩.
6₽	3467.66₽	66.04₽	29.44₽	53.81₽	5.00₽	46.67₽	74.00₽	-27.33₽	Peak∉	VERTICAL	₩.

Average value:

Frequency (MHz)	Level (dBuV/m)	Duty cycle factor	Average value (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
1736.48	46.47	-8.53	37.94	54.00	-16.06	Vertical
2480.41	50.05	-8.53	41.52	54.00	-12.48	Vertical
2603.35	44.20	-8.53	35.67	54.00	-18.33	Vertical

Remarks:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. Average value=Peak value + Duty cycle factor



7.3 20dB Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.231 (c)			
Test Method:	ANSI C63.10:2013			
Limit:	The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.			
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane			
Test Instruments:	Refer to section 6.0 for details			
Test mode:	Refer to section 5.2 for details			
Test results:	Pass			

Measurement Data

,	Test Frequency (MHz)	20dB bandwidth (MHz)	Limit (MHz)	Result
	433.92	0.1948	1.085	Pass

Note: Limit= Fundamental frequency×0.25%

433.92×0.25%=1.085MHz

Test plot as follows:





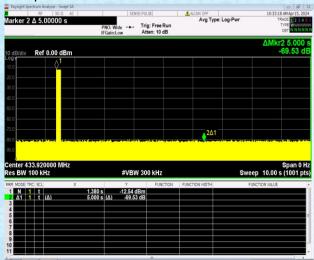
7.4 Dwell Time

Test Requirement:	FCC Part15 C Section 15.231 (a)(1)			
Test Method:	ANSI C63.10:2013			
Receiver setup:	RBW=100KHz, VBW=300KHz, span=0Hz, detector: Peak			
Limit:	Not more than 5 seconds			
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane			
Test Instruments:	Refer to section 6.0 for details			
Test mode:	Refer to section 5.2 for details			
Test results:	Pass			

Measurement data:

Frequency (MHz)	Duration of each TX (second)	Limit (second)	Result
433.92	<1.0	<5.0	Pass

Test plot as follows:





7.5 Duty Cycle

Test Requirement:	FCC Part15 C Section 15.231		
Test Method:	ANSI C63.10:2013		
Receiver setup:	RBW=100KHz, VBW=300KHz, span=0Hz, detector: Peak		
Limit:	No dedicated limit specified in the Rules.		
Test Procedure:	1. Place the EUT on the table and set it in transmitting mode. 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer. 3. Set centre frequency of spectrum analyzer=operating frequency. 4. Set the spectrum analyzer as RBW=100kHz, VBW=100KHz, Span=0Hz, Adjust Sweep=100ms to obtain the "worst-case" pulse on time 5. Repeat above procedures until all frequency measured was complete.		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 5.2 for details		
Test results:	Pass		

Measurement data:

Calculate Formula: Duty cycle factor =20 log(Duty cycle)

Duty cycle=on time/0.1 seconds or period, whichever is less

Test data:

T on time =15.35(ms) T period =40.96(ms)

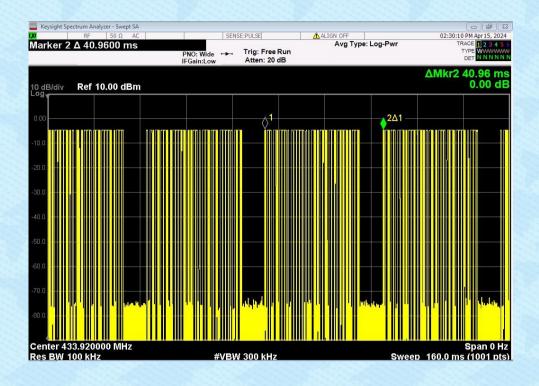
Duty cycle=15.35/40.96=37.47%

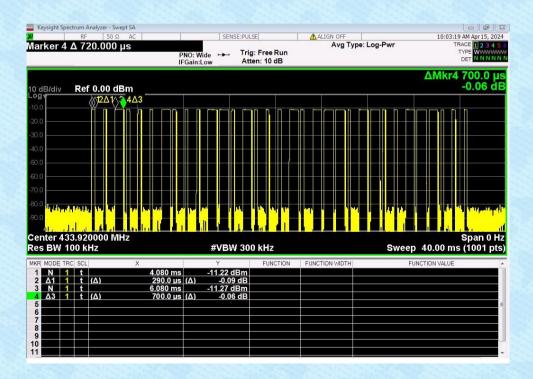
Duty cycle factor = $20 \log(0.3747) = -8.53$



Test plot as follows:

Report No.: GTSL2024040285F01







8 Test Setup Photo

Reference to the appendix I for details.

9 EUT Constructional Details

Reference to the appendix II for details.

-----End-----