

TEST Report

Applicant:	Shenzhen Qishun Innovation Technology Development Co., LTD
Address of Applicant:	1906, Block A, RongchuangZhihui Building, Minzhi Street, Longhua District, Shenzhen
Manufacturer :	Shenzhen Qishun Innovation Technology Development Co., LTD
Address of Manufacturer :	1906, Block A, RongchuangZhihui Building, Minzhi Street, Longhua District, Shenzhen
Equipment Under Test (El	JT)
Product Name:	Smart Watch
Model No.:	TF-H13
Series model:	N/A
Trade Mark:	TRANSFORMERS
FCC ID:	2BAQF-TF-H13
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247
Date of sample receipt:	Sep. 09, 2024
Date of Test:	Sep. 09, 2024 ~ Sep. 13, 2024
Date of report issued:	Sep. 13, 2024
Test Result :	PASS *

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



1. Version

Version No.	Date	Description
00	Sep. 13, 2024	Original

Tested/ Prepared By

Check By:

Heber He Date:

Sep. 13, 2024

Project Engineer

Bruce Zhu Date:

Sep. 13, 2024

Sep. 13, 2024

Reviewer



Approved By :



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3. Test Summary

Test Item	Section in CFR 47	Result	
Antenna Requirement	15.203/15.247 (c)	Pass	
AC Power Line Conducted Emission	15.207	Pass	
Conducted Peak Output Power	15.247 (b)(1)	Pass	
20dB Occupied Bandwidth	15.247 (a)(1)	Pass	
Carrier Frequencies Separation	15.247 (a)(1)	Pass	
Hopping Channel Number	15.247 (a)(1)(iii)	Pass	
Dwell Time	15.247 (a)(1)(iii)	Pass	
Radiated Emission	15.205/15.209	Pass	
Band Edge	15.247(d)	Pass	

Remarks:

- 1. Pass: The EUT complies with the essential requirements in the standard.
- 2. Test according to ANSI C63.10:2013

Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes			
Radiated Emission	30~1000MHz	4.37 dB	(1)			
Radiated Emission	1~18GHz	5.40 dB	(1)			
Radiated Emission	18-40GHz	5.45 dB	(1)			
Conducted Disturbance 0.15~30MHz 2.68 dB (1)						
Note (1): The measurement unc	ertainty is for coverage factor of k	=2 and a level of confidence of §	95%.			



4. General Information

4.1. General Description of EUT

Product Name:	Smart Watch
Model No.:	TF-H13
Series model:	N/A
Test sample(s) ID:	HTT202409275-1(Engineer sample) HTT202409275-2(Normal sample)
Operation Frequency:	2402MHz~2480MHz
Channel numbers:	79
Channel separation:	1MHz
Modulation type:	GFSK, π/4-DQPSK, 8-DPSK
Antenna Type:	FPC Antenna
Antenna Gain:	-4.91dBi
Power Supply:	DC 3.7V From Battery and DC 5V From External Circuit
Adapter Information	Mode: GS-0500200
(Auxiliary test provided by the lab):	Input: AC100-240V, 50/60Hz, 0.3A max Output: DC 5V, 2A



Operation Frequency each of channel									
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency		
1	2402MHz	21	2422MHz	41	2442MHz	61	2462MHz		
2	2403MHz	22	2423MHz	42	2443MHz	62	2463MHz		
3	2404MHz	23	2424MHz	43	2444MHz	63	2464MHz		
4	2405MHz	24	2425MHz	44	2445MHz	64	2465MHz		
5	2406MHz	25	2426MHz	45	2446MHz	65	2466MHz		
6	2407MHz	26	2427MHz	46	2447MHz	66	2467MHz		
7	2408MHz	27	2428MHz	47	2448MHz	67	2468MHz		
8	2409MHz	28	2429MHz	48	2449MHz	68	2469MHz		
9	2410MHz	29	2430MHz	49	2450MHz	69	2470MHz		
10	2411MHz	30	2431MHz	50	2451MHz	70	2471MHz		
11	2412MHz	31	2432MHz	51	2452MHz	71	2472MHz		
12	2413MHz	32	2433MHz	52	2453MHz	72	2473MHz		
13	2414MHz	33	2434MHz	53	2454MHz	73	2474MHz		
14	2415MHz	34	2435MHz	54	2455MHz	74	2475MHz		
15	2416MHz	35	2436MHz	55	2456MHz	75	2476MHz		
16	2417MHz	36	2437MHz	56	2457MHz	76	2477MHz		
17	2418MHz	37	2438MHz	57	2458MHz	77	2478MHz		
18	2419MHz	38	2439MHz	58	2459MHz	78	2479MHz		
19	2420MHz	39	2440MHz	59	2460MHz	79	2480MHz		
20	2421MHz	40	2441MHz	60	2461MHz				

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	2402MHz
The middle channel	2441MHz
The Highest channel	2480MHz



4.2. Test mode

Transmitting mode Keep the EUT in continuously transmitting mode.

Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

4.3. Description of Support Units

None.

4.4. Deviation from Standards

None.

4.5. Abnormalities from Standard Conditions

None.

4.6. Test Facility

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

FCC-Registration No.: 779513 Designation Number: CN1319

Shenzhen HTT Technology Co.,Ltd. has been accredited on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA-Lab Cert. No.: 6435.01

Shenzhen HTT Technology Co.,Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

4.7. Test Location

All tests were performed at:

Shenzhen HTT Technology Co.,Ltd.

1F, Building B, Huafeng International Robotics Industrial Park, Hangcheng Road, Nanchang Community, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China Tel: 0755-23595200

Fax: 0755-23595201

4.8. Additional Instructions

Test Software	Special AT test command provided by manufacturer to Keep the EUT in continuously transmitting mode and hopping mode
Power level setup	Default



Inventory Cal.Due date Cal.Date Item Model No. **Test Equipment** Manufacturer No. (mm-dd-yy) (mm-dd-yy) 3m Semi- Anechoic Shenzhen C.R.T HTT-E028 1 9*6*6 Aug. 10 2024 Aug. 09 2027 technology co., LTD Chamber Shenzhen C.R.T 2 Control Room 4.8*3.5*3.0 HTT-E030 Aug. 10 2024 Aug. 09 2027 technology co., LTD 3 **EMI Test Receiver** ESCI7 HTT-E022 Apr. 26 2024 Apr. 25 2025 Rohde&Schwar HTT-E037 Apr. 26 2024 4 Rohde&Schwar FSP Apr. 25 2025 Spectrum Analyzer 5 Coaxial Cable ZDecl ZT26-NJ-NJ-0.6M HTT-E018 Apr. 26 2024 Apr. 25 2025 6 Coaxial Cable ZDecl ZT26-NJ-SMAJ-2M HTT-E019 Apr. 26 2024 Apr. 25 2025 7 Coaxial Cable ZDecl ZT26-NJ-SMAJ-0.6M HTT-E020 Apr. 26 2024 Apr. 25 2025 8 Coaxial Cable ZDecl ZT26-NJ-SMAJ-8.5M HTT-E021 Apr. 26 2024 Apr. 25 2025 Composite logarithmic 9 Schwarzbeck VULB 9168 HTT-E017 May. 21 2024 May. 20 2025 antenna May. 19 2025 10 Schwarzbeck BBHA9120D May. 20 2024 Horn Antenna HTT-E016 11 Loop Antenna Zhinan ZN30900C HTT-E039 Apr. 26 2024 Apr. 25 2025 12 OBH100400 HTT-E040 Horn Antenna Beijing Hangwei Dayang Apr. 26 2024 Apr. 25 2025 low frequency 13 Sonoma Instrument 310 HTT-E015 Apr. 26 2024 Apr. 25 2025 Amplifier high-frequency 14 HP 8449B HTT-E014 Apr. 26 2024 Apr. 25 2025 Amplifier Variable frequency power Shenzhen Anbiao 15 ANB-10VA HTT-082 Apr. 26 2024 Apr. 25 2025 Instrument Co., Ltd supply 16 **EMI Test Receiver** Rohde & Schwarz ESCS30 HTT-E004 Apr. 26 2024 Apr. 25 2025 17 Artificial Mains Rohde & Schwarz ESH3-Z5 HTT-E006 May. 23 2024 May. 22 2025 18 HTT-E038 May. 23 2024 Artificial Mains Rohde & Schwarz ENV-216 May. 22 2025 19 Z302S-NJ-BNCJ-1.5M HTT-E001 Cable Line Robinson Apr. 26 2024 Apr. 25 2025 20 Attenuator Robinson 6810.17A HTT-E007 Apr. 26 2024 Apr. 25 2025 Variable frequency power Shenzhen Yanghong YF-650 (5KVA) 21 HTT-E032 Apr. 26 2024 Apr. 25 2025 Electric Co., Ltd supply Shenzhen C.R.T 22 Control Room 8*4*3.5 HTT-E029 Aug. 10 2024 Aug. 09 2027 technology co., LTD 23 DC power supply Agilent E3632A HTT-E023 Apr. 26 2024 Apr. 25 2025 HTT-E024 24 **EMI Test Receiver** Agilent N9020A Apr. 26 2024 Apr. 25 2025 25 Agilent N5181A HTT-E025 Apr. 26 2024 Apr. 25 2025 Analog signal generator 26 Vector signal generator Agilent N5182A HTT-E026 Apr. 26 2024 Apr. 25 2025 27 U2021XA HTT-E027 Apr. 25 2025 Power sensor Keysight Apr. 26 2024 Temperature and Shenzhen Anbiao 28 TH10R HTT-074 Apr. 27 2025 Apr. 28 2024 humidity meter Instrument Co., Ltd Radiated Emission Test 29 Farad EZ-EMC N/A N/A N/A Software Conducted Emission 30 Farad EZ-EMC N/A N/A N/A Test Software 31 **RF** Test Software panshanrf TST N/A N/A N/A

5. Test Instruments list

Shenzhen HTT Technology Co.,Ltd.

Tel: 0755-23595200 Fax: 0755-23595201

1F, Building B, Huafeng International Robotics Industrial Park, Hangcheng Road, Nanchang Community, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China



6. Test results and Measurement Data

6.1. Conducted Emissions

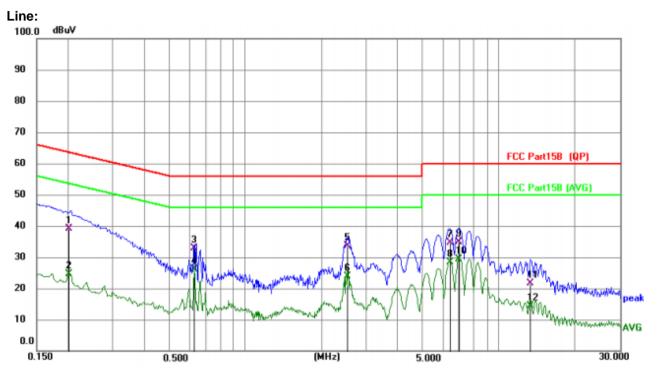
Test Method: ANSI C Test Frequency Range: 150KH: Class / Severity: Class E Receiver setup: RBW=9 Limit: Frequency	DKHz, VBW=30KHz, Sweep time=auto Juency range (MHz) Limit (dBuV) 0.15-0.5 66 to 56* Average 0.5-5 56 46 5-30 60 50					
Test Frequency Range: 150KH: Class / Severity: Class E Receiver setup: RBW=9 Limit: Frequency * Decree	z to 30MHz B WHz, VBW=30KHz, Sweep time=auto Juency range (MHz) 0.15-0.5 0.15-0.5 0.5-5 0.5-5 0.66 to 56* 0.66 to 46* 0.5-5 0.60 0.50					
Class / Severity: Class E Receiver setup: RBW=S Limit: Free * Decre	B BKHz, VBW=30KHz, Sweep time=auto Limit (dBuV) Quasi-peak Average 0.15-0.5 66 to 56* 56 to 46* 0.5-5 56 46 5-30 60 50					
Receiver setup: RBW=S	DKHz, VBW=30KHz, Sweep time=auto Juency range (MHz) Limit (dBuV) 0.15-0.5 66 to 56* Average 0.5-5 56 46 5-30 60 50					
Limit: Free * Decre	Limit (dBuV) Quasi-peak Average 0.15-0.5 66 to 56* 56 to 46* 0.5-5 56 46 5-30 60 50					
Limit: Free * Decre	Quasi-peak Average 0.15-0.5 66 to 56* 56 to 46* 0.5-5 56 46 5-30 60 50					
* Decre	Quasi-peak Average 0.15-0.5 66 to 56* 56 to 46* 0.5-5 56 46 5-30 60 50					
	0.5-5 56 46 5-30 60 50					
	5-30 60 50					
l'est setup:	ases with the logarithm of the frequency.					
Test procedure: 1. The line 500d 2. The LISN term phot 3. Both inter posit	Reference Plane LISN 40cm 80cm Filter AC power Equipment E.U.T Test table/Insulation plane					
	ording to ANSI C63.10:2013 on conducted measurement.					
	o section 5.2 for details					
Test environment: Temp.:	25 °C Humid.: 52% Press.: 1012mba					
	V, 60Hz					
AC 120						

Remark: Based on all tested data, the EUT complied with the FCC Part 15.207 standard limit for a wireless device, and withthe worst case as below:



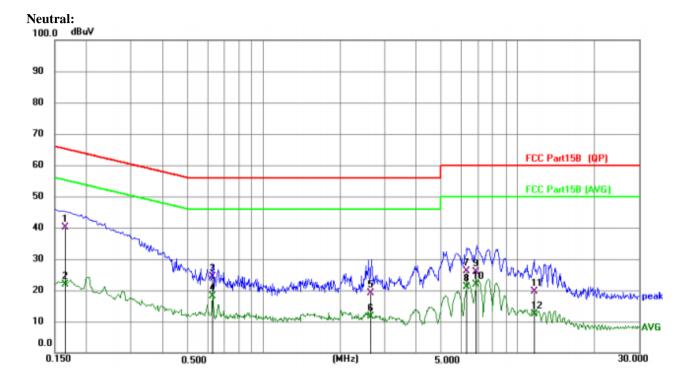
Report No.: HTT202409275F01

Measurement data:



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz		dB	dBuV	dBuV	dB	Detector
1	0.2017	28.88	10.21	39.09	63.54	-24.45	QP
2	0.2017	14.48	10.21	24.69	53.54	-28.85	AVG
3	0.6289	22.57	10.32	32.89	56.00	-23.11	QP
4 *	0.6289	15.83	10.32	26.15	46.00	-19.85	AVG
5	2.5425	23.08	10.46	33.54	56.00	-22.46	QP
6	2.5425	13.53	10.46	23.99	46.00	-22.01	AVG
7	6.4286	23.99	10.62	34.61	60.00	-25.39	QP
8	6.4286	17.80	10.62	28.42	50.00	-21.58	AVG
9	6.9575	24.36	10.62	34.98	60.00	-25.02	QP
10	6.9575	18.65	10.62	29.27	50.00	-20.73	AVG
11	13.2799	10.74	10.93	21.67	60.00	-38.33	QP
12	13.2799	3.36	10.93	14.29	50.00	-35.71	AVG





1 0.1654 29.99 10.18 40.17 65.19 -25.02 QP 2 0.1654 11.76 10.18 21.94 55.19 -33.25 AVG 3 0.6273 13.93 10.35 24.28 56.00 -31.72 QP 4 0.6273 7.71 10.35 18.06 46.00 -27.94 AVG 5 2.6470 8.68 10.44 19.12 56.00 -36.88 QP 6 2.6470 1.11 10.44 11.55 46.00 -34.45 AVG 7 6.3138 15.43 10.65 26.08 60.00 -33.92 QP 8 6.3138 10.40 10.65 21.05 50.00 -28.95 AVG 9 6.8958 15.27 10.68 25.95 60.00 -34.05 QP 10 6.8958 11.23 10.68 21.91 50.00 -28.09 AVG 11 11.5912	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
1 0.1034 23.33 10.16 40.17 03.13 -23.02 04 2 0.1654 11.76 10.18 21.94 55.19 -33.25 AVG 3 0.6273 13.93 10.35 24.28 56.00 -31.72 QP 4 0.6273 7.71 10.35 18.06 46.00 -27.94 AVG 5 2.6470 8.68 10.44 19.12 56.00 -36.88 QP 6 2.6470 1.11 10.44 11.55 46.00 -34.45 AVG 7 6.3138 15.43 10.65 26.08 60.00 -33.92 QP 8 6.3138 10.40 10.65 21.05 50.00 -28.95 AVG 9 6.8958 15.27 10.68 25.95 60.00 -34.05 QP 10 6.8958 11.23 10.68 21.91 50.00 -28.09 AVG 11 11.5912			MHz		dB	dBuV	dBuV	dB	Detector
3 0.6273 13.93 10.35 24.28 56.00 -31.72 QP 4 0.6273 7.71 10.35 18.06 46.00 -27.94 AVG 5 2.6470 8.68 10.44 19.12 56.00 -36.88 QP 6 2.6470 1.11 10.44 11.55 46.00 -34.45 AVG 7 6.3138 15.43 10.65 26.08 60.00 -33.92 QP 8 6.3138 10.40 10.65 21.05 50.00 -28.95 AVG 9 6.8958 15.27 10.68 25.95 60.00 -34.05 QP 10 6.8958 11.23 10.68 21.91 50.00 -28.09 AVG 11 11.5912 8.75 10.98 19.73 60.00 -40.27 QP	1	*	0.1654	29.99	10.18	40.17	65.19	-25.02	QP
4 0.6273 7.71 10.35 18.06 46.00 -27.94 AVG 5 2.6470 8.68 10.44 19.12 56.00 -36.88 QP 6 2.6470 1.11 10.44 11.55 46.00 -34.45 AVG 7 6.3138 15.43 10.65 26.08 60.00 -33.92 QP 8 6.3138 10.40 10.65 21.05 50.00 -28.95 AVG 9 6.8958 15.27 10.68 25.95 60.00 -34.05 QP 10 6.8958 11.23 10.68 21.91 50.00 -28.09 AVG 11 11.5912 8.75 10.98 19.73 60.00 -40.27 QP	2		0.1654	11.76	10.18	21.94	55.19	-33.25	AVG
5 2.6470 8.68 10.44 19.12 56.00 -36.88 QP 6 2.6470 1.11 10.44 11.55 46.00 -34.45 AVG 7 6.3138 15.43 10.65 26.08 60.00 -33.92 QP 8 6.3138 10.40 10.65 21.05 50.00 -28.95 AVG 9 6.8958 15.27 10.68 25.95 60.00 -34.05 QP 10 6.8958 11.23 10.68 21.91 50.00 -28.09 AVG 11 11.5912 8.75 10.98 19.73 60.00 -40.27 QP	3		0.6273	13.93	10.35	24.28	56.00	-31.72	QP
6 2.6470 1.11 10.44 11.55 46.00 -34.45 AVG 7 6.3138 15.43 10.65 26.08 60.00 -33.92 QP 8 6.3138 10.40 10.65 21.05 50.00 -28.95 AVG 9 6.8958 15.27 10.68 25.95 60.00 -34.05 QP 10 6.8958 11.23 10.68 21.91 50.00 -28.09 AVG 11 11.5912 8.75 10.98 19.73 60.00 -40.27 QP	4		0.6273	7.71	10.35	18.06	46.00	-27.94	AVG
7 6.3138 15.43 10.65 26.08 60.00 -33.92 QP 8 6.3138 10.40 10.65 21.05 50.00 -28.95 AVG 9 6.8958 15.27 10.68 25.95 60.00 -34.05 QP 10 6.8958 11.23 10.68 21.91 50.00 -28.09 AVG 11 11.5912 8.75 10.98 19.73 60.00 -40.27 QP	5		2.6470	8.68	10.44	19.12	56.00	-36.88	QP
8 6.3138 10.40 10.65 21.05 50.00 -28.95 AVG 9 6.8958 15.27 10.68 25.95 60.00 -34.05 QP 10 6.8958 11.23 10.68 21.91 50.00 -28.09 AVG 11 11.5912 8.75 10.98 19.73 60.00 -40.27 QP	6		2.6470	1.11	10.44	11.55	46.00	-34.45	AVG
9 6.8958 15.27 10.68 25.95 60.00 -34.05 QP 10 6.8958 11.23 10.68 21.91 50.00 -28.09 AVG 11 11.5912 8.75 10.98 19.73 60.00 -40.27 QP	7		6.3138	15.43	10.65	26.08	60.00	-33.92	QP
10 6.8958 11.23 10.68 21.91 50.00 -28.09 AVG 11 11.5912 8.75 10.98 19.73 60.00 -40.27 QP	8		6.3138	10.40	10.65	21.05	50.00	-28.95	AVG
11 11.5912 8.75 10.98 19.73 60.00 -40.27 QP	9		6.8958	15.27	10.68	25.95	60.00	-34.05	QP
	10		6.8958	11.23	10.68	21.91	50.00	-28.09	AVG
12 11.5912 1.52 10.98 12.50 50.00 -37.50 AVG	11		11.5912	8.75	10.98	19.73	60.00	-40.27	QP
	12		11.5912	1.52	10.98	12.50	50.00	-37.50	AVG

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.

2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.

3. Final Level =Receiver Read level + LISN Factor + Cable Los



Test Requirement: FCC Part15 C Section 15.247 (b)(3) ANSI C63.10:2013 Test Method: Limit: 30dBm(for GFSK),20.97dBm(for EDR) Power sensor and Spectrum analyzer Test setup: 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 Pass Test results: 52% Press.: Test environment: Temp.: 25 °C Humid.: 1012mbar

6.2. Conducted Peak Output Power

Measurement Data

Mode	Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
	Lowest	2.15		
GFSK	Middle	2.26	30.00	Pass
	Highest	1.96		
	Lowest	2.91		
π/4-DQPSK	Middle	3.05	20.97	Pass
	Highest	2.80		
	Lowest	3.26		
8-DPSK	Middle	3.44	20.97	Pass
	Highest	3.23		



FCC Part15 C Section 15.247 (a)(2) **Test Requirement:** Test Method: ANSI C63.10:2013 Limit: N/A Test setup: Spectrum Analyzer E.U.T G 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 52% 1012mbar Test environment: Temp.: 25 °C Humid.: Press.:

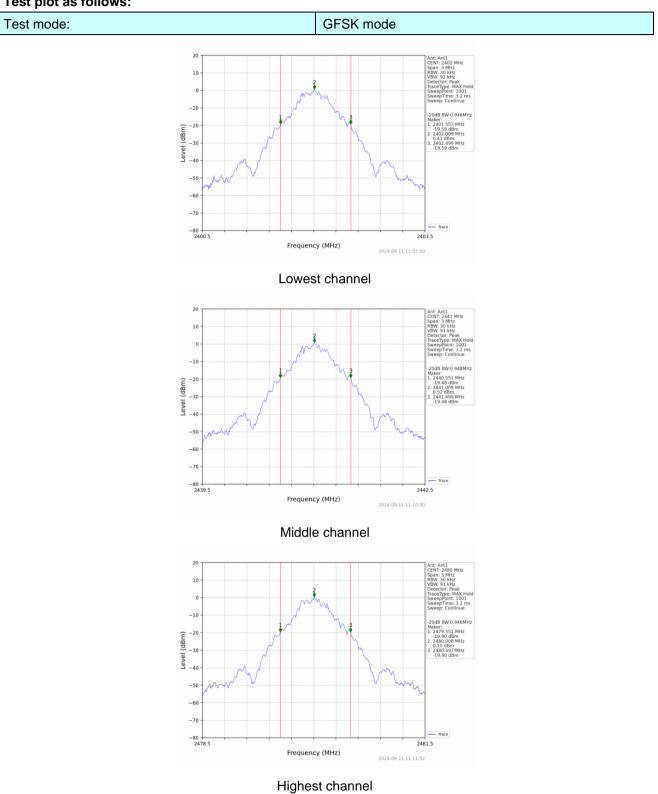
6.3. 20dB Emission Bandwidth

Measurement Data

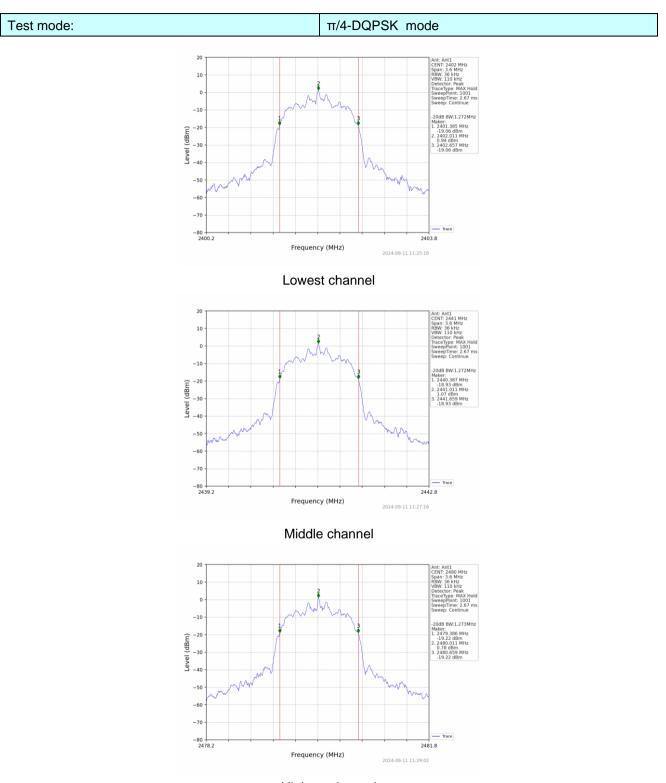
Mode	Test channel	20dB Emission Bandwidth (MHz)	Result
	Lowest	0.946	
GFSK	Middle	0.948	Pass
	Highest	0.946	
	Lowest	1.272	
π/4-DQPSK	Middle	1.272	Pass
	Highest	1.273	
	Lowest	1.287	
8-DPSK	Middle	1.290	Pass
	Highest	1.290	



Test plot as follows:



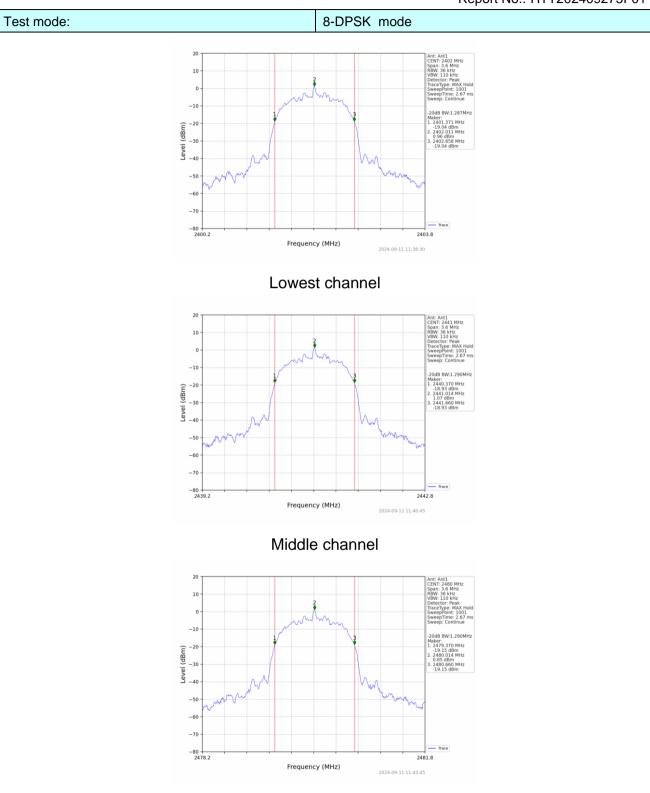




Highest channel



Report No.: HTT202409275F01



Highest channel



6.4. Frequencies Separation

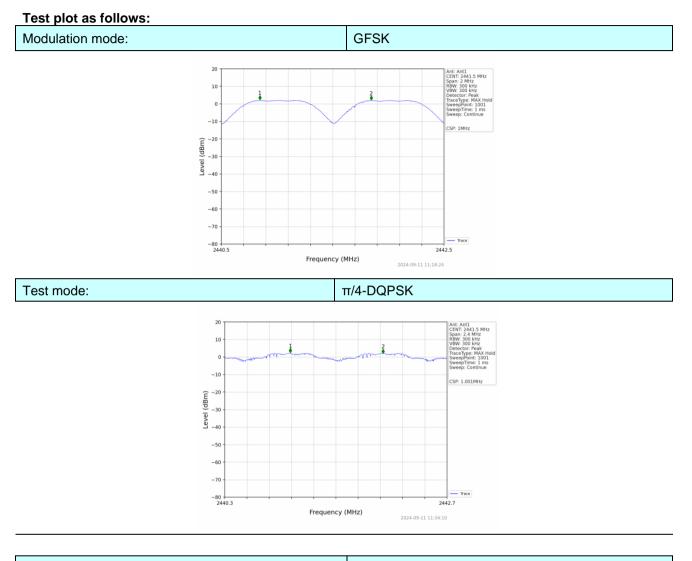
• •							
Test Requirement:	FCC Part15 C Section 15.247 (a)(1)						
Test Method:	ANSI C63.	ANSI C63.10:2013					
Receiver setup:	RBW=100k	KHz, VBW=30	0KHz, detec	tor=Peak			
Limit:	GFSK: 20dB bandwidth $\pi/4$ -DQPSK : 0.025MHz or 2/3 of the 20dB bandwidth (whichever is greater)						
Test setup:	Sp						
Test Instruments:	Refer to section 6.0 for details						
Test mode:	Refer to section 5.2 for details						
Test results:	Pass						
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mb	ar

Measurement Data

Mode	Test channel	Frequencies Separation (MHz)	Limit (kHz)	Result
			25KHz or	
GFSK	Middle	1.000	2/3*20dB	Pass
			bandwidth	
			25KHz or	
π/4-DQPSK	Middle	1.001	2/3*20dB	Pass
			bandwidth	
			25KHz or	
8-DPSK	Middle	0.998	2/3*20dB	Pass
			bandwidth	

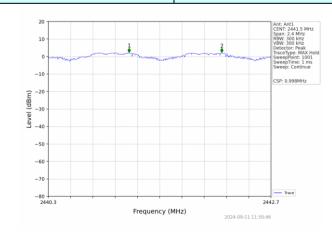
Remark: We have tested all mode at high, middle and low channel, and recorded worst case at middle





Modulation mode:

8-DPSK





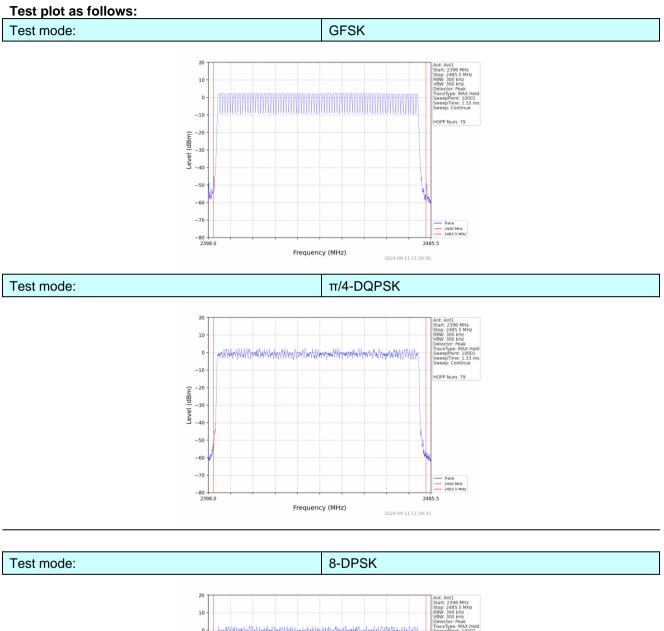
Test Requirement:	FCC Part15	FCC Part15 C Section 15.247 (a)(1)(iii)					
Test Method:	ANSI C63.2	ANSI C63.10:2013					
Receiver setup:	RBW=100k Detector=P	Hz, VBW=30 eak	0kHz, Frequ	ency range=2	2400MHz-24	83.5MHz,	
Limit:	15 channel	S					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane						
Test Instruments:	Refer to se	Refer to section 6.0 for details					
Test mode:	Refer to se	Refer to section 5.2 for details					
Test results:	Pass						
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar	

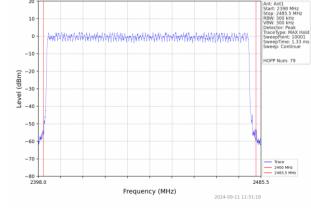
6.5. Hopping Channel Number

Measurement Data:

Mode	Hopping channel numbers	Limit	Result
GFSK	79		Pass
π/4-DQPSK	79	≥15	Pass
8-DPSK	79		Pass









6.6. Dwell Time

Test Requirement:	FCC Part15	FCC Part15 C Section 15.247 (a)(1)(iii)					
Test Method:	ANSI C63.1	ANSI C63.10:2013					
Receiver setup:	RBW=1MH	z, VBW=1MH	lz, Span=0H	z, Detector=F	Peak		
Limit:	0.4 Second						
Test setup:	Sp						
Test Instruments:	Refer to see	Refer to section 6.0 for details					
Test mode:	Refer to see	Refer to section 5.2 for details					
Test results:	Pass	Pass					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar	



Measurement Data

Modulation	Packet	Burst time (ms)	Dwell time (ms)	Limit (ms)	Result
	DH1	0.412	131.840		
GFSK	DH3	1.670	260.520	400	Pass
	DH5	2.916	347.004		
	2-DH1	0.422	134.618		
π/4DQPSK	2-DH3	1.672	259.160	400	Pass
	2-DH5	2.924	304.096		
	3-DH1	0.422	135.040		
8DPSK	3-DH3	1.674	277.884	400	Pass
	3-DH5	2.926	295.526		

Note:We have tested all mode at high, middle and low channel, and recoreded worst case at middle channel.

Dwell time=Pulse time (ms) × (1600 ÷ 2 ÷ 79) ×31.6 Second for DH1, 2-DH1, 3-DH1

Dwell time=Pulse time (ms) × (1600 \div 4 \div 79) ×31.6 Second for DH3, 2-DH3, 3-DH3

Dwell time=Pulse time (ms) × (1600 \div 6 \div 79) ×31.6 Second for DH5, 2-DH5, 3-DH5

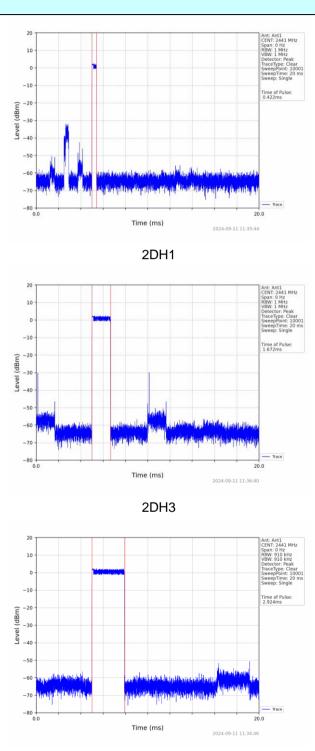


Test plot as follows:

Report No.: HTT202409275F01

GFSK mode 20 CENT: 2441 MF Span: 0 Hz RBW: 910 kHz VBW: 910 kHz Datactor: Peak 10 0 -10 Time of Pulse: 0.412ms -20 -20 (mgp) -30 -40 -50 -60 -70 -80 -90 ↓ 0.0 20.0 Time (ms) 2024-09-11 11:22:09 DH1 20 Ant: Ant1 CENT: 2441 MHz Span: 0 Hz RBW: 910 kHz VBW: 910 kHz Detector: Peak 10 raceType: -10 Time of Pulse 1.670ms -20 Level (dBm) -30 -40 -50 -60 -70 and the second secon -80 20.0 Time (ms) DH3 20 Ant: Ant1 CENT: 2441 Span: 0 Hz RBW: 1 MHz VBW: 1 MHz Detector: Pe 10 C -10 Time of Pulse 2.916ms -20 Level (dBm) -30 -40 -50 -60 -70 and the start of the start of the **Lundul al a** de -80 Trace 20.0 Time (ms) 2024-09-11 11:21:01 DH5

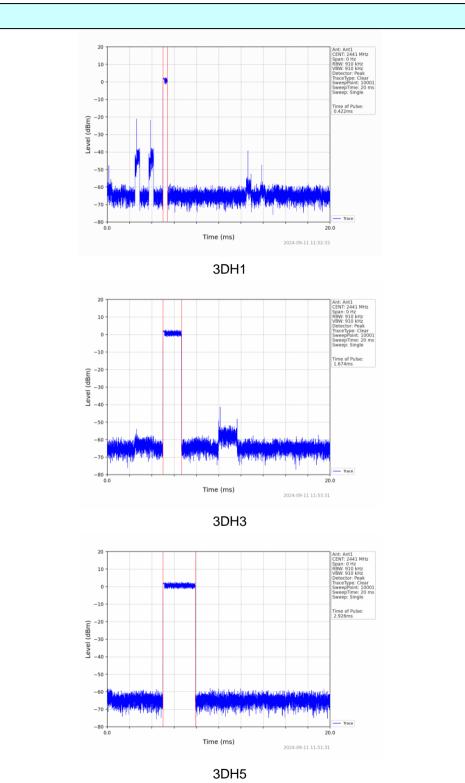




π/4-DQPSK mode

2DH5





8-DPSK mode



6.7. Band Edge

6.7.1. Conducted Emission Method

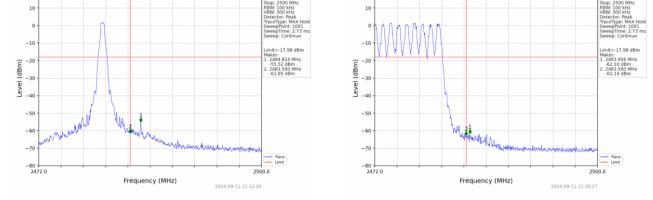
Test Requirement:	FCC Part15	5 C Section 1	5.247 (d)			
Test Method:	ANSI C63.1	0:2013				
Receiver setup:	RBW=100k	Hz, VBW=30	0kHz, Detec	tor=Peak		
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.					
Test setup:	Spectrum Analyzer Image: Construction of the second seco					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test results:	Pass					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar



Test plot as follows:

Report No.: HTT202409275F01

GFSK Mode: Test channel Lowest channel 10 10 0 . -10 -10 -17.98 dB 17.98 dBn 99.950 M -20 (dBm) -20 Level (dBm) -30 -30 Leve -40 -40 -50 -50 -60 -60 -70 -70 2310.0 2310.0 2410.0 2410.0 Frequency (MHz) Frequency (MHz) 2024-09-11 11:08:24 No-hopping mode Hopping mode Test channel: Highest channel 10 10

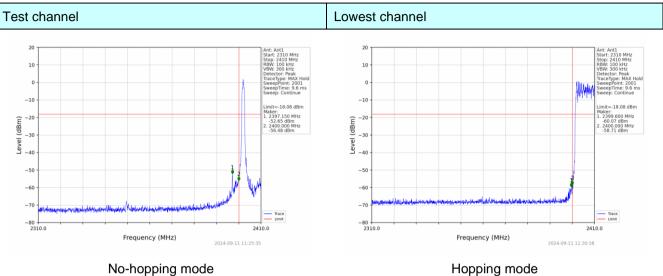


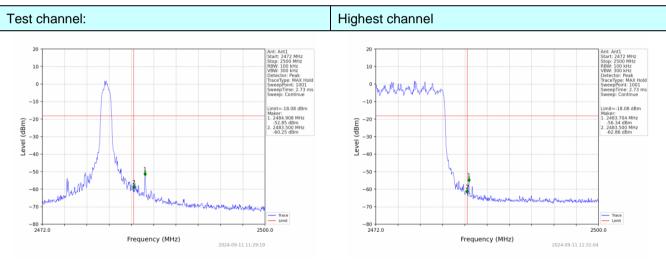
No-hopping mode

Hopping mode



π /4-DQPSK Mode:



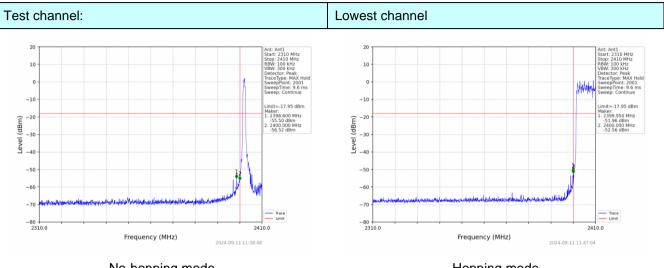


No-hopping mode

Hopping mode

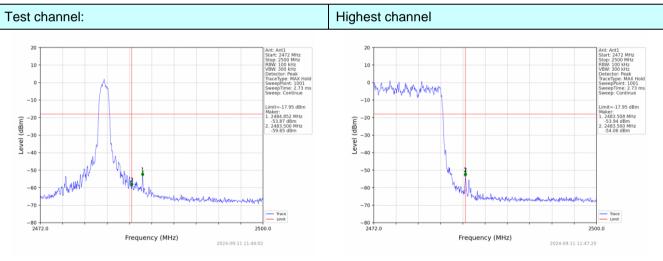


8-DPSK Mode:



No-hopping mode

Hopping mode



No-hopping mode

Hopping mode



Test Requirement: FCC Part15 C Section 15.209 and 15.205 Test Method: ANSI CG3.10:2013 Test Frequency Range: All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed. Test site: Measurement Distance: 3m Receiver setup: Frequency Detector Rew VBW Remark Above 1GHz Peak 1MHz 3MHz Peak Value Limit: Frequency Limit (dBuV/m @3m) Remark Above 1GHz 74.00 Peak Value Test setup: Imm Table Frequency Limit (dBuV/m @3m) Remark Imm Table Imm Table Frequency Limit (dBuV/m @3m) Remark Test setup: Imm Table Frequency Limit (dBuV/m @3m) Remark Imm Table Imm Table Frequency Limit (dBuV/m @3m) Remark Imm Table Imm Table Imm Table Imm Table Imm Table Imm Table Imm Table Imm Table Imm Table Imm Table Imm Table Imm Table Imm Table Imm Table </th <th>6.7.2.</th> <th colspan="7">.7.2. Radiated Emission Method</th>	6.7.2.	.7.2. Radiated Emission Method							
Test Frequency Range: All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed. Test site: Measurement Distance: 3m Receiver setup: Frequency Detector RBW VBW Remark Above 1GHz Peak 1MHz 30HHz Peakvalue Limit: Frequency Limit (BUV/m @3m) Remark Above 1GHz 74.00 Peakvalue Test setup: Frequency Limit (BUV/m @3m) Remark to 2000m/m. Test setup: Image: State of the state o	Test Req	uirement:	FCC Part15	FCC Part15 C Section 15.209 and 15.205					
2500MHz) data was showed. Test site: Measurement Distance: 3m Receiver setup: Image: Comparison of the setup o	Test Meth	nod:	ANSI C63.1	ANSI C63.10:2013					
Receiver setup: Frequency Detector RBW VBW Remark Above 1GHz Peak 1MHz 3MHz Peak Value Limit: Frequency Limit (dBu//m @3m) Remark Above 1GHz 54.00 Average Value Test setup: Image: the test of the test o	Test Freq	uency Range:							
Above 1GHz Peak 1MHz 3MHz Peak Value Limit: Frequency Limit (BuV/m @3m) Remark Above 1GHz 54.00 Average Value Test setup: Frequency Limit (BuV/m @3m) Remark Test setup: Image: State St	Test site:		Measureme	nt Distance:	3m				
Above 1GH2 Peak 1MHz 10Hz Average Value Limit: Frequency Limit (dBuV/m @3m) Remark Above 1GHz 54.00 Average Value Test setup: Image: State of the state	Receiver	setup:	Frequenc	y Deteo					
Limit: Peak TIMH2 TUHH2 Average Value Frequency Limit (BWU/m @3m) Remark Above 1GHz 54.00 Average Value Test setup: Image: State			Above 1G	H7					
Above 1GHz 64.00 74.00 Average Value Peak Value Test setup: Image: Construction of the setup of the set				Pea					
Test setup: Image: State S	Limit:		Fre	equency	Limit (d				
Test Procedure: 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was placed on the top of a variable-height antenna which was mounted on the top of a variable-height antenna tower. 3. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 6. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 6. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tured to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 6. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 7. The test-receiver system was set to Peak Detect Function and specified Bandwidth with Maximum Hold Mode. 8. If the emission level of the EUT in peak mode was 10dB lower than the timit specified. then testing could be esopted 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. Test Instruments: Refer to section 6.0 for details Test results: Pass			Abo	ve 1GHz				•	
ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. 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 and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. 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. Test Instruments: Refer to section 6.0 for details Test results: Pass			Test Antenna- Turn Table-						
Test Instruments: Refer to section 6.0 for details Test mode: Refer to section 5.2 for details Test results: Pass	Test Proc	edure:	 ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. 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 and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. 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 						
Test mode: Refer to section 5.2 for details Test results: Pass	Test Instr	uments:							
Test results: Pass									
				25 °C	Humid.:	52%	Press.:	1012mbar	

Padiated Emission Method 7 0

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Measurement Data

Remark: GFSK, Pi/4 DQPSK,8-DPSK all have been tested, only worse case GFSK is reported.

Operation Mode: GFSK

Freque	ncy(MHz)	:	24	02	Pola	arity:	H		NL
Frequency (MHz)	Emis Le ^v (dBu	vel	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2390.00	60.23	PK	74	13.77	61.62	27.2	4.31	32.9	-1.39
2390.00	45.80	AV	54	8.20	47.19	27.2	4.31	32.9	-1.39
Freque	ncy(MHz)	:	24	02	Pola	arity:		VERTICAL	
Frequency (MHz)	Emis Le [.] (dBu	vel	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2390.00	58.73	PK	74	15.27	60.12	27.2	4.31	32.9	-1.39
2390.00	45.78	AV	54	8.22	47.17	27.2	4.31	32.9	-1.39
Freque	ncy(MHz)	:	2480		P olarity:		HORIZONTAL		
Frequency (MHz)	Emis Le [.] (dBu	vel	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2483.50	55.47	PK	74	18.53	56.40	27.4	4.47	32.8	-0.93
2483.50	44.55	AV	54	9.45	45.48	27.4	4.47	32.8	-0.93
Freque	ncy(MHz)	:	24	80	Pola	arity:		VERTICAL	
Frequency (MHz)	Emis Le ^r (dBu	vel	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2483.50	55.65	PK	74	18.35	56.58	27.4	4.47	32.8	-0.93
2483.50	45.16	AV	54	8.84	46.09	27.4	4.47	32.8	-0.93

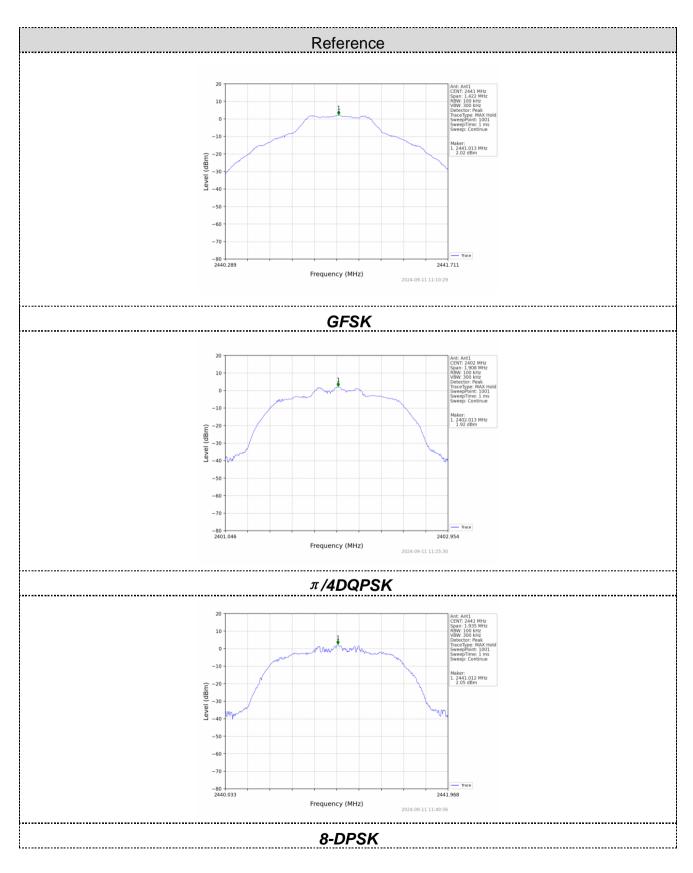


6.8.	Spurious	Emission
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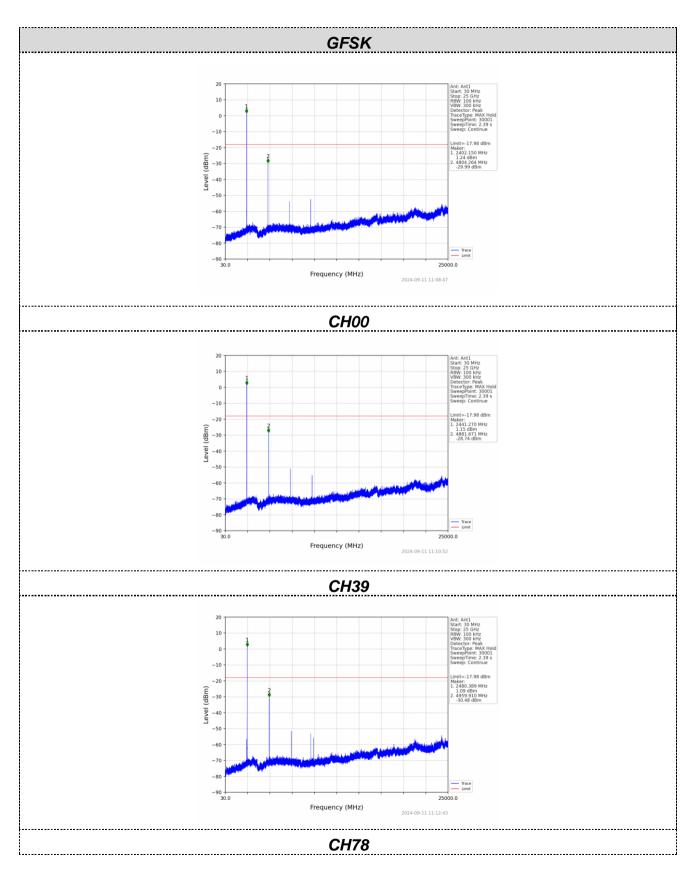
6.8.1. Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)							
Test Method:	ANSI C63.10:2013							
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.							
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table							
Test Instruments:	Refer to section 6.0 for details							
Test mode:	Refer to section 5.2 for details							
Test results:	Pass							
Test environment:	Temp.: 25 °C Humid.:	52%	Press.:	1012mbar				

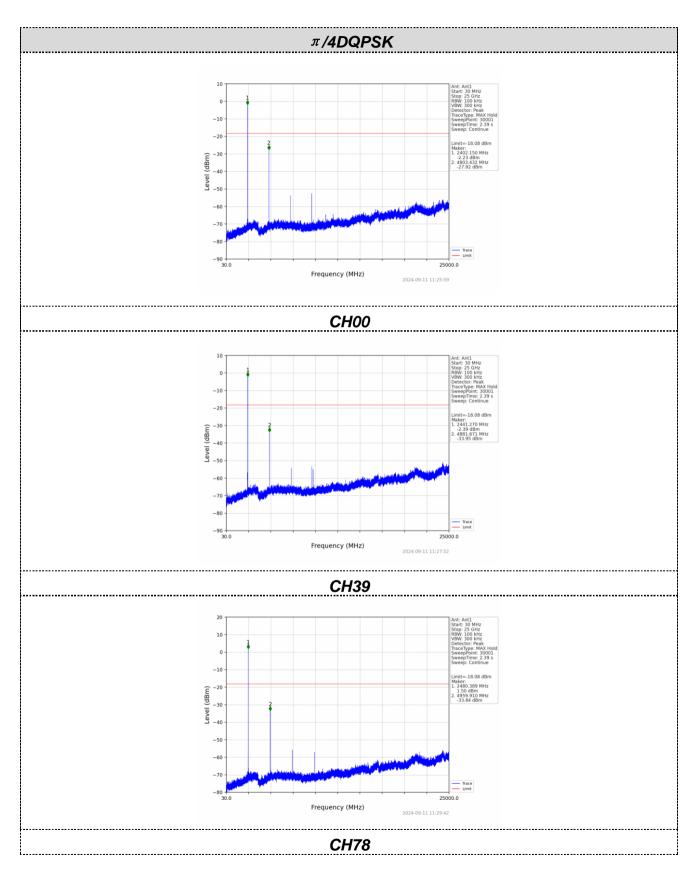




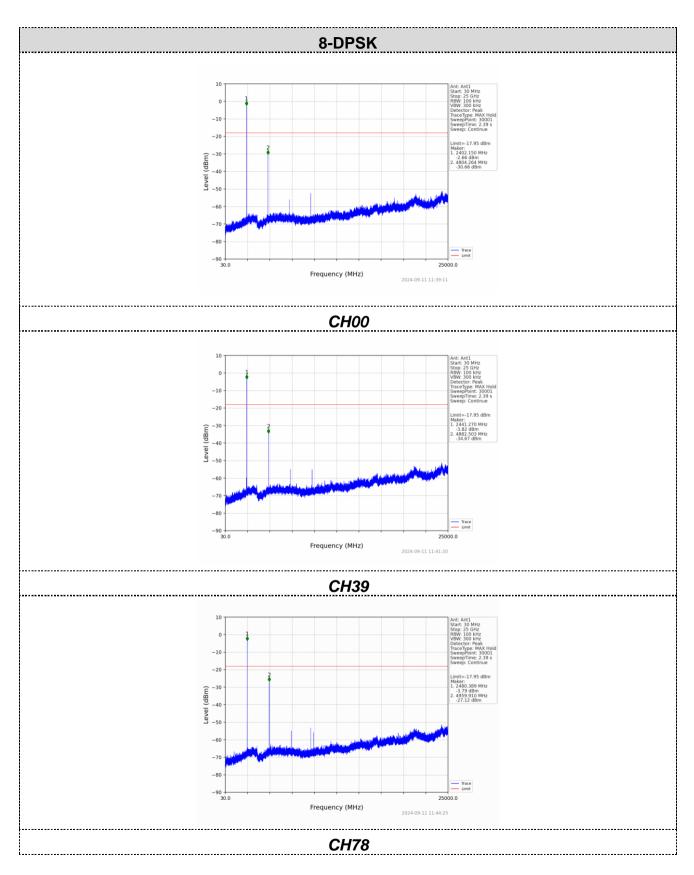










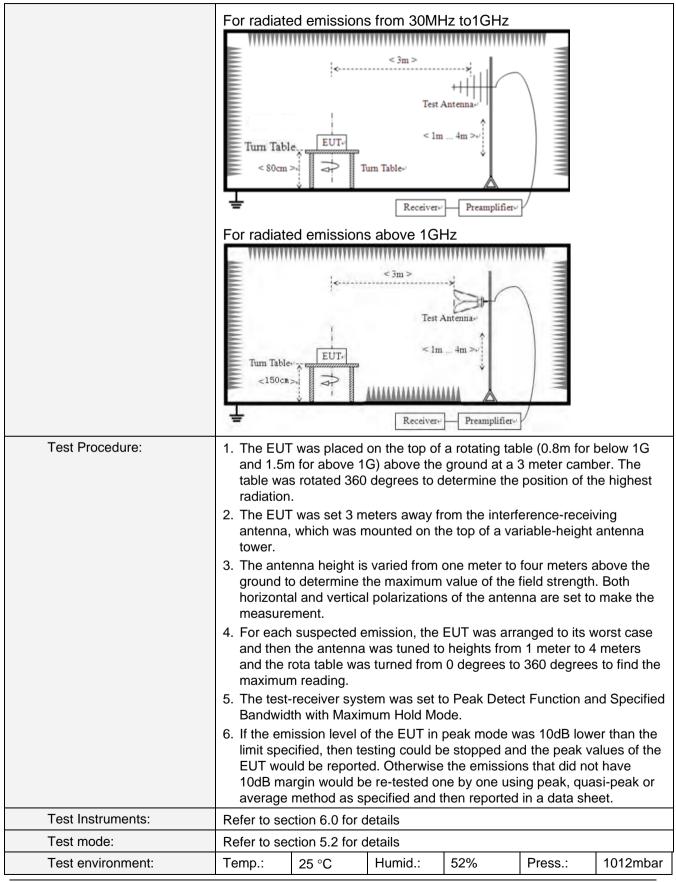




6.8.2. Radiated E	mission Method								
Test Requirement:	FCC Part15 C Section 15.209								
Test Method:	ANSI C63.10:2013								
Test Frequency Range:	9kHz to 25GHz								
Test site:	Measurement Distance: 3m								
Receiver setup:	Frequency		Detector	RB۱	N	VBW	'	Value	
	9KHz-150KHz	Qı	lasi-peak	200H	Ηz	600H:	z	Quasi-peak	
	150KHz-30MHz	Qı	uasi-peak	9K⊢	lz	30KH	z	Quasi-peak	
	30MHz-1GHz	Qı	uasi-peak	120K	Hz	300K⊦	lz	Quasi-peak	
	Above 1GHz		Peak	1M⊦	lz	3MHz	z	Peak	
	7.0070 10112		Peak	1M⊦	łz	10Hz		Average	
Limit:	Frequency		Limit (u∖	//m)	V	alue	Ν	leasurement Distance	
	0.009MHz-0.490M	lHz	2400/F(k	(Hz)		QP		300m	
	0.490MHz-1.705M	lHz	24000/F(KHz)	QP		30m		
	1.705MHz-30MH	z	30		QP		30m		
	30MHz-88MHz	100		QP					
	88MHz-216MHz	150		QP					
	216MHz-960MH		200		QP			3m	
	960MHz-1GHz		500		QP			•	
	Above 1GHz		500		Average				
			5000		F	Peak			
Test setup:	For radiated emiss	sions	from 9kH	z to 30	MH	Z		_	
	Tum Table		< 3m > Test A um Table-	ntenna Im Receiver					

6.8.2. Radiated Emission Method





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Test voltage:	AC 120V, 60Hz
Test results:	Pass

Measurement data:

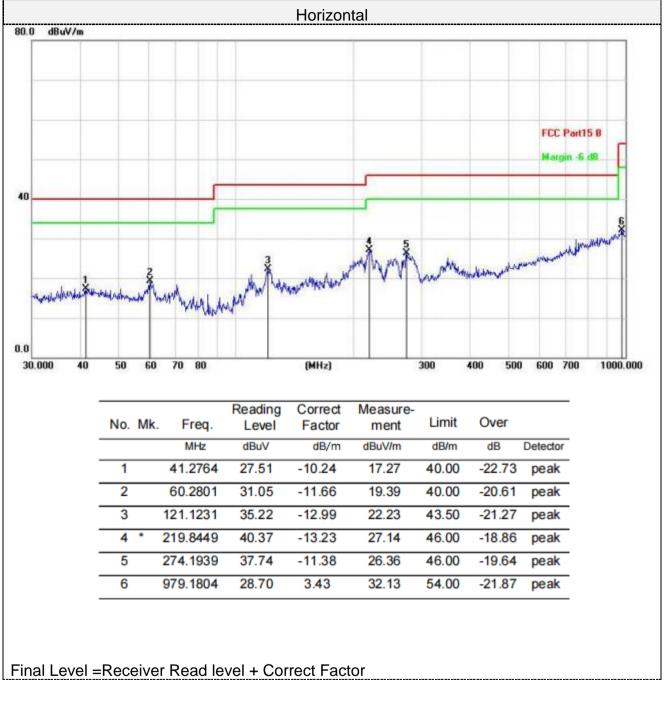
Remarks:

- 1. During the test, pre-scan the GFSK, π /4-DQPSK, 8-DPSK modulation, and found the GFSK modulation which it is worse case.
- 2. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.
- 3. Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9 KHz to 30MHz and not recorded in this report.
- 4. Based on all tested data, the EUT complied with the FCC Part 15.207 standard limit for a wireless device, and with the worst case as DH5 2402MHz as below:

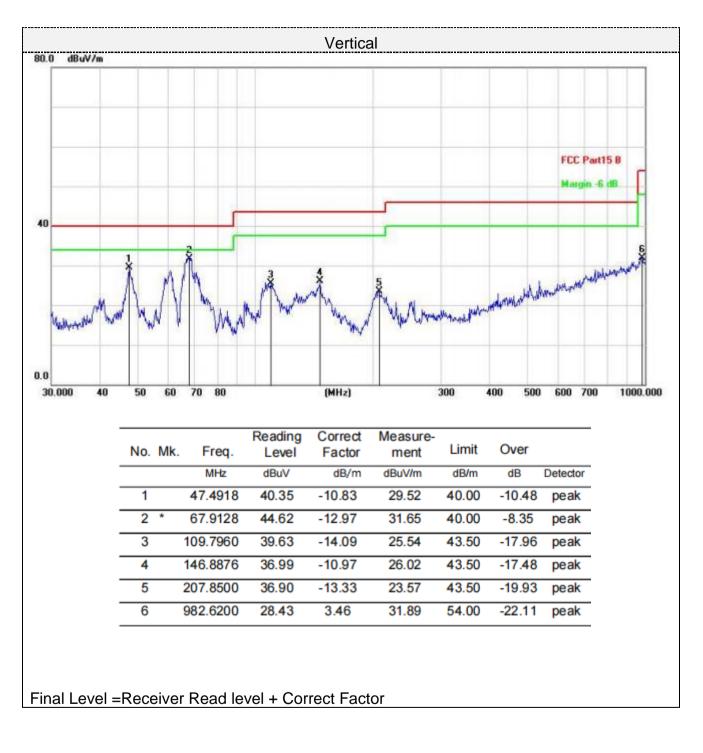


Report No.: HTT202409275F01

For 30MHz-1GHz









For 1GHz to 25GHz

Remark: For test above 1GHz GFSK,Pi/4 DQPSK and 8-DPSK were test at Low, Middle, and High channel; only the worst result of GFSK was reported as below:

Freque	Frequency(MHz):			02	Pola	arity:	HORIZONTAL			
Frequency (MHz)		vel	Limit (dBuV/m)	Margin (dB)	Raw Value	Antenna Factor	Cable Factor	Pre- amplifier (dB)	Correction Factor	
4804.00	(dBu 59.35	V/m) PK	74	14.65	(dBuV) 53.65	(dB/m) 31	(dB) 6.5	(ub) 31.8	(dB/m) 5.7	
4804.00	42.60	AV	54	11.40	36.90	31	6.5	31.8	5.7	
7206.00	53.92	PK	74	20.08	41.27	36	8.15	31.5	12.65	
7206.00	43.95	AV	54	10.05	31.30	36	8.15	31.5	12.65	

Frequency(MHz):			24	02	Pola	arity:	VERTICAL			
Frequency (MHz)	Emis Le ^v		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)	
4804.00	б9.01	PK	74	14.99	(dBuV) 53.31	31	(ub) 6.5	31.8	(ub/iii) 5.7	
4804.00	43.10	AV	54	10.90	37.40	31	6.5	31.8	5.7	
7206.00	52.48	PK	74	21.52	39.83	36	8.15	31.5	12.65	
7206.00	43.19	AV	54	10.81	30.54	36	8.15	31.5	12.65	

Frequency(MHz):			24	41	Pola	arity:	HORIZONTAL			
Frequency (MHz)	Emis Le ^v (dBu		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)	
4882.00	60.18	PK	74	13.82	54.02	31.2	6.61	31.65	6.16	
4882.00	44.56	AV	54	9.44	38.40	31.2	6.61	31.65	6.16	
7323.00	52.15	PK	74	21.85	39.20	36.2	8.23	31.48	12.95	
7323.00	43.25	AV	54	10.75	30.30	36.2	8.23	31.48	12.95	



Frequency(MHz):			24	41	Pola	arity:	VERTICAL			
Frequency (MHz)	Emis Lev (dBu)	vel	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)	
4882.00	61.36	PK	74	12.64	55.20	31.2	6.61	31.65	6.16	
4882.00	43.58	AV	54	10.42	37.42	31.2	6.61	31.65	6.16	
7323.00	52.94	PK	74	21.06	39.99	36.2	8.23	31.48	12.95	
7323.00	43.28	AV	54	10.72	30.33	36.2	8.23	31.48	12.95	

Frequency(MHz):			24	80	Pola	arity:	HORIZONTAL			
Frequency (MHz)	Emis Lev (dBu	vel	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)	
4960.00	62.62	PK	74	11.38	55.96	31.4	6.76	31.5	6.66	
4960.00	42.97	AV	54	11.03	36.31	31.4	6.76	31.5	6.66	
7440.00	53.24	PK	74	20.76	39.94	36.4	8.35	31.45	13.3	
7440.00	44.69	AV	54	9.31	31.39	36.4	8.35	31.45	13.3	

Freque	Frequency(MHz):			80	Pola	arity:	VERTICAL			
Frequency (MHz)	Emis Lev (dBu		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)	
4960.00	64.13	PK	74	9.87	57.47	31.4	6.76	31.5	6.66	
4960.00	43.96	AV	54	10.04	37.30	31.4	6.76	31.5	6.66	
7440.00	54.06	PK	74	19.94	40.76	36.4	8.35	31.45	13.3	
7440.00	44.44	AV	54	9.56	31.14	36.4	8.35	31.45	13.3	

Remark:

(1) Data of measurement within this frequency range shown "--- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

(2) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed.

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6.9. Antenna Requirement

Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203:

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

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1) (I):

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

Antenna Connected Construction

The maximum gain of antenna was -4.91dBi.

Remark: The antenna gain is provided by the customer, if the data provided by the customer is not accurate, Shenzhen HTT Technology Co., Ltd. does not assume any responsibility.



7. Test Setup Photo

Reference to the **appendix I** for details.

8. EUT Constructional Details

Reference to the **appendix II** for details.

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