

Shenzhen HTT Technology Co., Ltd.

Report No.: HTT202205287F01

TEST Report

Applicant: Shenzhen JinYangHuiChuang Technology Limited

Address of Applicant: #1301, ShenXinTaifeng Building, Qianjin 1st Road No 86,

Baoan District, Shenzhen, Guangdong, China

Manufacturer: Shenzhen JinYangHuiChuang Technology Limited

Address of #1301, ShenXinTaifeng Building, Qianjin 1st Road No 86,

Manufacturer: Baoan District, Shenzhen, Guangdong, China

Equipment Under Test (EUT)

Product Name: RIVAL PRO

Model No.: RIVAL PRO

Series model: N/A

Trade Mark: HEXGAMING

FCC ID: 2A3BG-RIVAL-PRO

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: May.19,2022

Date of Test: May.19,2022~May.25,2022

Date of report issued: May.25,2022

Test Result: PASS *

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



1. Version

Version No.	Date	Description
00	May.25,2022	Original

Tested/ Prepared By	Ervin Xu	Date:	May.25,2022
	Project Engineer	_	
Check By:	Bruce 2hu	Date:	May.25,2022
	Reviewer		
Approved By :	Kerin Yang	Date:	May.25,2022
	Authorized Signature	_	



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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 Output Power	15.247 (b)(3)	Pass
Channel Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247(d)	Pass
Spurious Emission	15.205/15.209	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	3.45 dB	(1)			
Radiated Emission	1~6GHz	3.54 dB	(1)			
Radiated Emission	6~40GHz	5.38 dB	(1)			
Conducted Disturbance	0.15~30MHz	2.66 dB	(1)			
Note (1): The measurement unc	Note (1): The measurement uncertainty 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:	RIVAL PRO
Model No.:	RIVAL PRO
Series model:	N/A
Test sample(s) ID:	HTT202205287-1(Engineer sample) HTT202205287-2(Normal sample)
Operation frequency	2402~2480 MHz
Number of Channels	40
Modulation Type	GFSK
Channel separation	2MHz
Antenna Type:	PCB Antenna
Antenna Gain:	0 dBi
Power Supply:	DC 3.7V/1560mAh Form Battery and DC 5V From External Circuit
Adapter Information (Auxiliary test provided by the lab):	Mode: CD122 Input: AC100-240V, 50/60Hz, 500mA Output: DC 5V, 2A



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

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	2440MHz
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 listed 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



5. Test Instruments list

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	Shenzhen C.R.T technology co., LTD	9*6*6	HTT-E028	Aug. 10 2020	Aug. 09 2024
2	Control Room	Shenzhen C.R.T technology co., LTD	4.8*3.5*3.0	HTT-E030	Aug. 10 2020	Aug. 09 2024
3	EMI Test Receiver	Rohde&Schwar	ESCI7	HTT-E022	May 23 2022	May 22 2023
4	Spectrum Analyzer	Rohde&Schwar	FSP	HTT-E037	May 23 2022	May 22 2023
5	Coaxial Cable	ZDecl	ZT26-NJ-NJ-0.6M	HTT-E018	May 23 2022	May 22 2023
6	Coaxial Cable	ZDecl	ZT26-NJ-SMAJ-2M	HTT-E019	May 23 2022	May 22 2023
7	Coaxial Cable	ZDecl	ZT26-NJ-SMAJ-0.6M	HTT-E020	May 23 2022	May 22 2023
8	Coaxial Cable	ZDecl	ZT26-NJ-SMAJ-8.5M	HTT-E021	May 23 2022	May 22 2023
9	Composite logarithmic antenna	Schwarzbeck	VULB 9168	HTT-E017	Aug. 22 2021	Aug. 21 2022
10	Horn Antenna	Schwarzbeck	BBHA9120D	HTT-E016	Aug. 22 2021	Aug. 21 2022
11	Loop Antenna	Zhinan	ZN30900C	HTT-E039	Aug. 22 2021	Aug. 21 2022
12	Horn Antenna	Beijing Hangwei Dayang	OBH100400	HTT-E040	Aug. 22 2021	Aug. 21 2022
13	low frequency Amplifier	Sonoma Instrument	310	HTT-E015	May 23 2022	May 22 2023
14	high-frequency Amplifier	HP	8449B	HTT-E014	May 23 2022	May 22 2023
15	Variable frequency power supply	Shenzhen Anbiao Instrument Co., Ltd	ANB-10VA	HTT-082	May 23 2022	May 22 2023
16	EMI Test Receiver	Rohde & Schwarz	ESCS30	HTT-E004	May 23 2022	May 22 2023
17	Artificial Mains	Rohde & Schwarz	ESH3-Z5	HTT-E006	May 23 2022	May 22 2023
18	Artificial Mains	Rohde & Schwarz	ENV-216	HTT-E038	May 23 2022	May 22 2023
19	Cable Line	Robinson	Z302S-NJ-BNCJ-1.5M	HTT-E001	May 23 2022	May 22 2023
20	Attenuator	Robinson	6810.17A	HTT-E007	May 23 2022	May 22 2023
21	Variable frequency power supply	Shenzhen Yanghong Electric Co., Ltd	YF-650 (5KVA)	HTT-E032	May 23 2022	May 22 2023
22	Control Room	Shenzhen C.R.T technology co., LTD	8*4*3.5	HTT-E029	May 23 2022	May 22 2023
23	DC power supply	Agilent	E3632A	HTT-E023	May 23 2022	May 22 2023
24	EMI Test Receiver	Agilent	N9020A	HTT-E024	May 23 2022	May 22 2023
25	Analog signal generator	Agilent	N5181A	HTT-E025	May 23 2022	May 22 2023
26	Vector signal generator	Agilent	N5182A	HTT-E026	May 23 2022	May 22 2023
27	Power sensor	Keysight	U2021XA	HTT-E027	May 23 2022	May 22 2023
28	Temperature and humidity meter	Shenzhen Anbiao Instrument Co., Ltd	TH10R	HTT-074	May 23 2022	May 22 2023
29	Radiated Emission Test Software	Farad	EZ-EMC	N/A	N/A	N/A
30	Conducted Emission Test Software	Farad	EZ-EMC	N/A	N/A	N/A
31	RF Test Software	panshanrf	TST	N/A	N/A	N/A



6. Test results and Measurement Data

6.1. Conducted Emissions

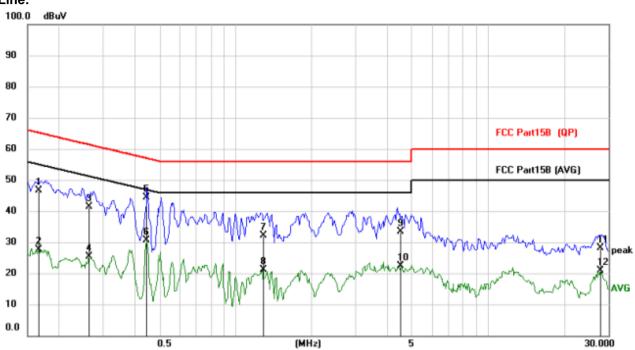
Test Requirement:	FCC Part15 C Section 15.207				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	150KHz to 30MHz				
Class / Severity:	Class B				
Receiver setup:	RBW=9KHz, VBW=30KHz, St	weep time=auto			
Limit:	Fraguency range (MILIT)	Limit	Limit (dBuV)		
	Frequency range (MHz)	Quasi-peak	Aver		
	0.15-0.5	66 to 56*	56 to		
	0.5-5	56	40		
	5-30 * Decreases with the logarithn	60	50	J	
Test setup:	Reference Plane	•			
Test procedure:	Remark E.U.T Remark E.U.T Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m 1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a				
	 LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement. 				
Test Instruments:	Refer to section 6.0 for details				
Test mode:	Refer to section 5.2 for details	;			
Test environment:	Temp.: 25 °C Hun	nid.: 52%	Press.:	1012mbar	
Test voltage:	AC 120V, 60Hz				
Test results:	Pass				
	•				

Remark: Both high and low voltages have been tested to show only the worst low voltage test data.



Measurement data:

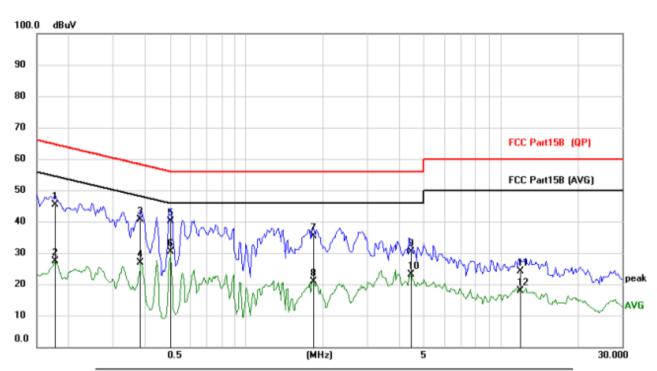




Nic		-	Reading	Correct	Measure-	Limit	Over	
No.	Mk.	Freq.	Level	Factor	ment	LIMIL	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1658	36.35	10.25	46.60	65.17	-18.57	QP
2		0.1658	17.33	10.25	27.58	55.17	-27.59	AVG
3		0.2631	31.25	10.23	41.48	61.33	-19.85	QP
4		0.2631	15.20	10.23	25.43	51.33	-25.90	AVG
5	*	0.4464	34.18	10.32	44.50	56.94	-12.44	QP
6		0.4464	20.19	10.32	30.51	46.94	-16.43	AVG
7		1.2845	21.23	10.81	32.04	56.00	-23.96	QP
8		1.2845	10.22	10.81	21.03	46.00	-24.97	AVG
9		4.5053	22.49	10.88	33.37	56.00	-22.63	QP
10		4.5053	11.54	10.88	22.42	46.00	-23.58	AVG
11		27.8551	15.47	12.65	28.12	60.00	-31.88	QP
12		27.8551	8.22	12.65	20.87	50.00	-29.13	AVG



Neutral:



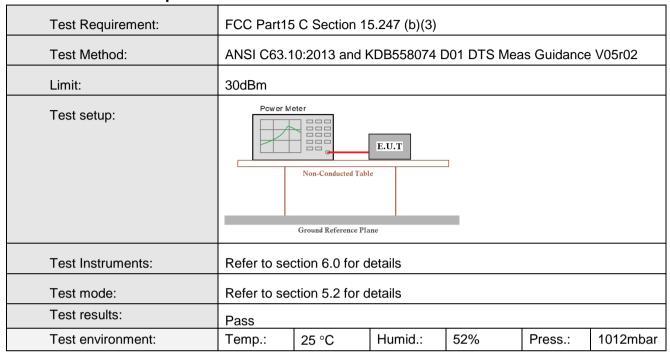
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.1773	35.17	10.23	45.40	64.61	-19.21	QP
2	0.1773	17.10	10.23	27.33	54.61	-27.28	AVG
3	0.3840	30.22	10.29	40.51	58.19	-17.68	QP
4	0.3840	16.49	10.29	26.78	48.19	-21.41	AVG
5	0.5049	29.69	10.35	40.04	56.00	-15.96	QP
6 *	0.5049	20.04	10.35	30.39	46.00	-15.61	AVG
7	1.8192	24.68	10.82	35.50	56.00	-20.50	QP
8	1.8192	10.05	10.82	20.87	46.00	-25.13	AVG
9	4.4352	19.49	10.88	30.37	56.00	-25.63	QP
10	4.4352	12.27	10.88	23.15	46.00	-22.85	AVG
11	11.9328	12.34	11.77	24.11	60.00	-35.89	QP
12	11.9328	6.14	11.77	17.91	50.00	-32.09	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



6.2. Conducted Output Power

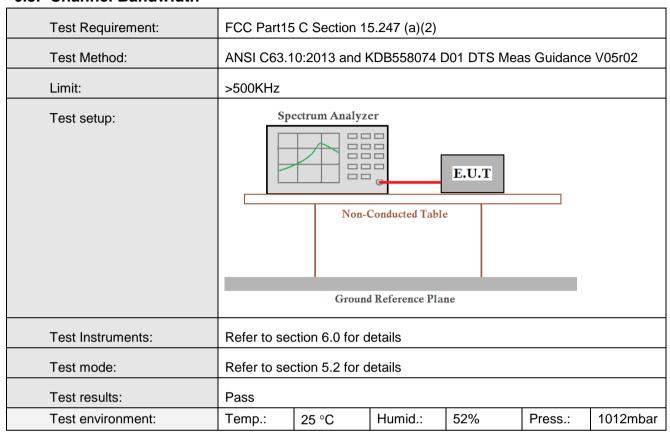


Measurement Data

Test channel	Peak Output Power (dBm)	Limit(dBm)	Result
Lowest	0.76		
Middle	0.31	30.00	Pass
Highest	-0.54		



6.3. Channel Bandwidth

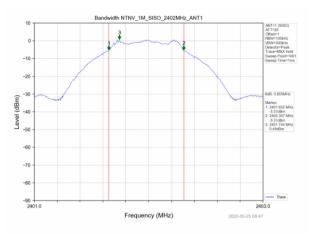


Measurement Data

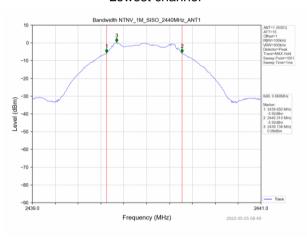
Test channel	Channel Bandwidth (MHz)	Limit(KHz)	Result
Lowest	0.655		
Middle	0.660	>500	Pass
Highest	0.656		



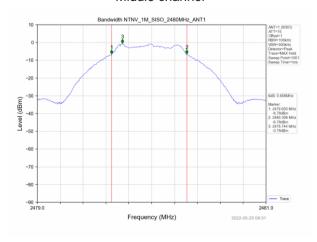
Test plot as follows:



Lowest channel



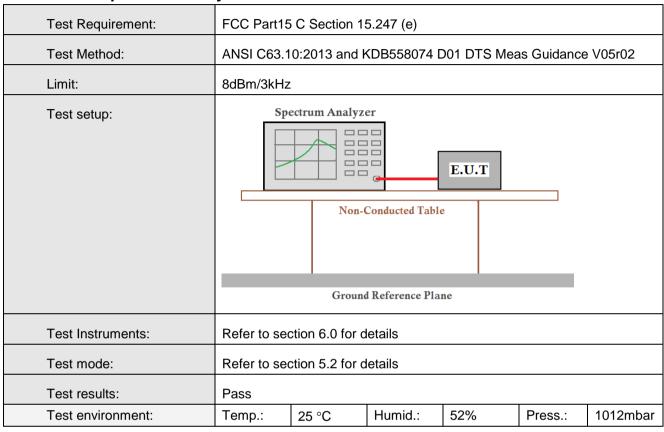
Middle channel



Highest channel



6.4. Power Spectral Density

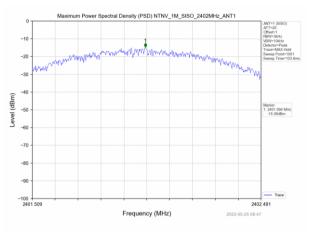


Measurement Data

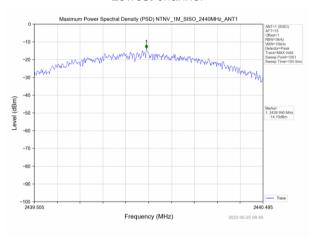
Test channel	Power Spectral Density (dBm/3kHz)	Limit(dBm/3kHz)	Result
Lowest	-15.08		
Middle	-14.10	8.00	Pass
Highest	-15.80		



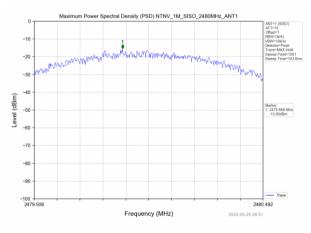
Test plot as follows:



Lowest channel



Middle channel



Highest channel



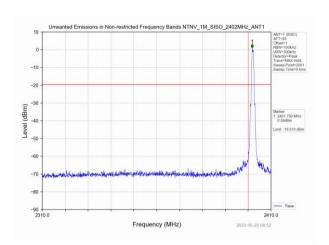
6.5. Band edges

6.5.1 Conducted Emission Method

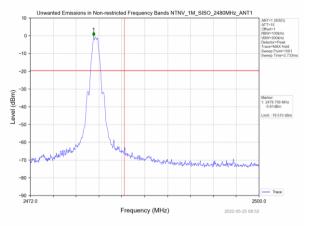
Test Requirement:	FCC Part15	C Section 15	5.247 (d)					
Test Method:	ANSI C63.1	0:2013 and k	KDB558074 [D01 DTS Mea	as Guidanc	e V05r02		
Limit:	spectrum in is produced the 100 kHz the desired	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, 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:	Sp	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane						
Test Instruments:	Refer to see	ction 6.0 for d	letails					
Test mode:	Refer to see	ction 5.2 for d	letails			_		
Test results:	Pass	Pass						
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar		

Test plot as follows:









Lowest channel

Highest channel

6.5.2 Radiated Emission Method

Test Requirement:	FCC Part15 C S	FCC Part15 C Section 15.209 and 15.205					
Test Method:	ANSI C63.10:20	ANSI C63.10:2013					
Test Frequency Range:		All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.					
Test site:	Measurement D	Measurement Distance: 3m					
Receiver setup:	Frequency	Detector	RBW	VBW	Value		
	Above 1GHz	Peak	1MHz	3MHz	Peak		
	Above Toriz	RMS	1MHz	3MHz	Average		
Limit:	Freque	ency	Limit (dBuV/	/m @3m)	Value		
	Above 1	GHz	54.0		Average		
	Above	OFIZ	74.0	0	Peak		
Test setup:	Tum Table	EUT+	Test Antenna 4m >	eamplifier			
Test Procedure:	the ground at determine the 2. The EUT was antenna, white tower. 3. The antenna ground to determine the ground at t	t a 3 meter car e position of th s set 3 meters ch was mounte height is varie termine the ma	mber. The take highest race away from the don the top d from one maximum value	ole was rota diation. ne interferen of a variabl neter to four e of the field	.5 meters above ted 360 degrees to ace-receiving e-height antenna meters above the strength. Both are set to make the		

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Tel: 0755-23595200 Fax: 0755-23595201

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Report No.: H	TT202205287F01
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				<u> </u>		
	and then and the rand	ement. In suspected en the antenna rota table was mum reading-receiver system of the method as spation measured the X axis se mode is read the suspected of the method is read the x axis and the x axis as mode is read the x axis and the x axis and the x axis axis axis axis axis axis axis ax	was tuned to s turned from em was set t with Maximur f the EUT in sting could b orted. Other e re-tested or becified and t ements are p positioning w	heights from 0 degrees to 0 Peak Detect on Hold Mode, peak mode we stopped an wise the emisting by one using their reported performed in 2 thich it is wors	n 1 meter to o 360 degree of Function a vas 10dB low d the peak sions that d ng peak, qu in a data sh K, Y, Z axis	4 meters es to find and wer than the values of id not have asi-peak or neet. positioning.
Test Instruments:		ction 6.0 for c		•		
Test mode:	Refer to see	ction 5.2 for c	letails			
Test results:	Pass					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar

Measurement Data

Operation Mode: GFSK TX Low channel(2402MHz)

Horizontal (Worst case)

TIONZONIA	ii (Wolst Cast	-)						
Frequency	Meter Reading	eter Deading Antenna		Preamp	Emission Level	Limits	Margin	
Frequency	Meter Reading	Factor	Cable Loss	s Factor Emission Level Limits	LIIIIII	iviaigiii	Detector	
(MHz)	(dBuV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
((/	(,)	(/	()	(== =	((/	
2390	58.87	26.20	5.72	33.30	57.49	74	-16.51	peak
2390	46.24	26.20	5.72	33.30	44.86	54	-9.14	AVG

Vertical:

v 0								
	Meter Reading	Antenna		Preamp	Emission Level	Limits	Margin	
Frequency	Meter Reading	Factor	Cable Loss	Factor	ETHISSION Level	LIIIIIIS	iviargiri	Detector
(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2390	60.24	26.20	5.72	33.30	58.86	74	-15.14	peak
2390	46.22	26.20	5.72	33.30	44.84	54	-9.16	AVG

Operation Mode: GFSK TX High channel (2480MHz)

Horizontal (Worst case)



Frequency	Meter Reading	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
2483.5	55.31	28.60	6.97	32.70	58.18	74	-15.82	peak
2483.5	41.78	28.60	6.97	32.70	44.65	54	-9.35	AVG

Vertical:

Frequency	Meter Reading	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
2483.5	56.14	28.60	6.97	32.70	59.01	74	-14.99	peak
2483.5	42.57	28.60	6.97	32.70	45.44	54	-8.56	AVG

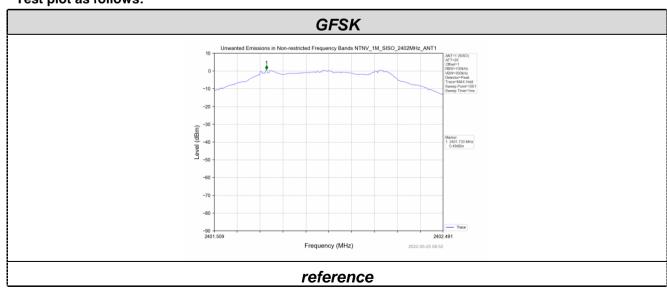


6.6. Spurious Emission

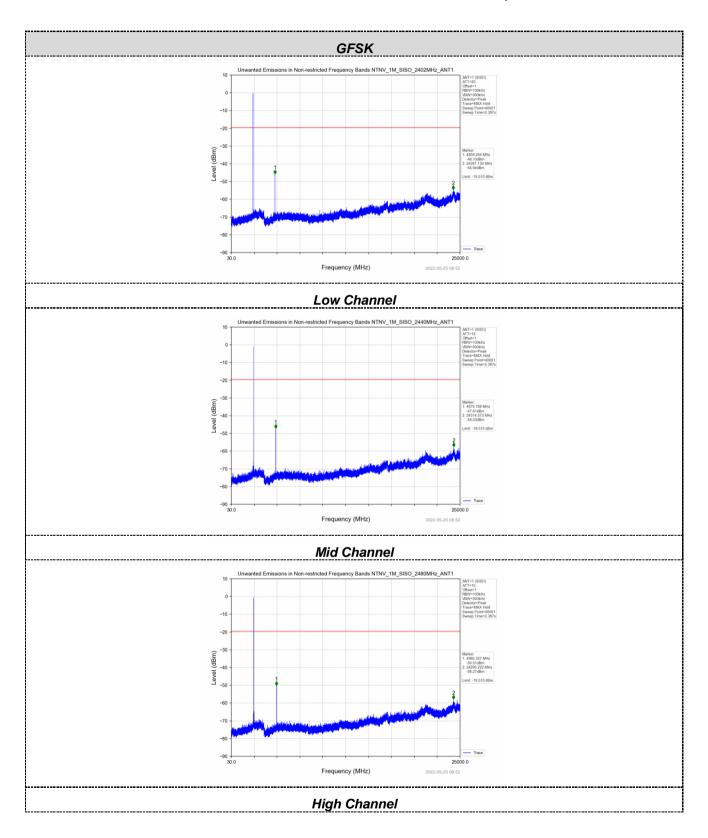
6.6.1 Conducted Emission Method

Test Requirement:	FCC Part15	C Section 1	5.247 (d)						
Test Method:	ANSI C63.1	0:2013 and k	KDB558074 [D01 DTS Mea	as Guidanc	e V05r02			
Limit:	spectrum in is produced the 100 kHz the desired	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:	Sp								
Test Instruments:	Refer to section 6.0 for details								
Test mode:	Refer to see	ction 5.2 for d	letails						
Test results:	Pass								
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar			

Test plot as follows:





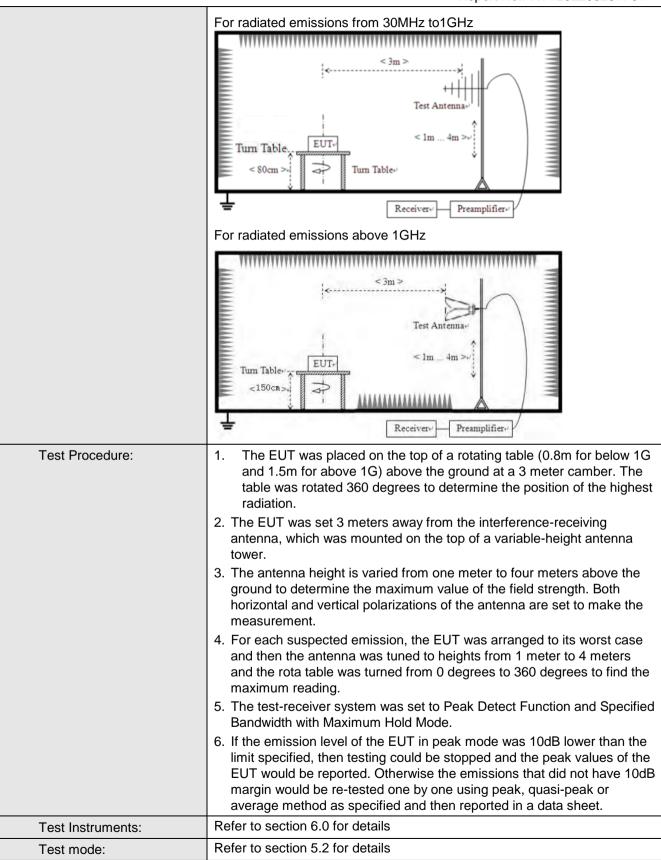




6.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section	on 15	5.209						
Test Method:	ANSI C63.10:2013								
Test Frequency Range:	9kHz to 25GHz								
Test site:	Measurement Distar	ice: 3	3m						
Receiver setup:	Frequency Detector RBW VBW Value								
	9KHz-150KHz	Qi	ıasi-peak	200	Hz	600Hz	z Quasi-peak		
	150KHz-30MHz	Qı	ıasi-peak	9Kł	Ηz	30KH:	z Quasi-peak		
	30MHz-1GHz	Qi	ıasi-peak	120k	Ήz	300KH	Iz Quasi-peak		
	Above 1GHz		Peak	1MI	Ηz	3MHz	z Peak		
	Above 10112		Peak	1MI	Ηz	10Hz	Average		
Limit:	Frequency Limit (uV/m) Value Measurement Distance								
	0.009MHz-0.490M	Hz	2400/F(k	(Hz)		QP	300m		
	0.490MHz-1.705M	Hz	24000/F(KHz)		QP	30m		
	1.705MHz-30MH	Z	30			QP	30m		
	30MHz-88MHz		100			QP			
	88MHz-216MHz		150			QP			
	216MHz-960MH	Z	200			QP	3m		
	960MHz-1GHz		500			QP			
	Above 1GHz		500			rerage			
			5000		F	Peak			
Test setup:	For radiated emissio	ns fr	om 9kHz to	30MH	Z				
	Test Antenna Turn Table < 80cm > 1 Receiver								







Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar
Test voltage:	AC 120V, 60Hz					
Test results:	Pass					

Measurement data:

Remark:

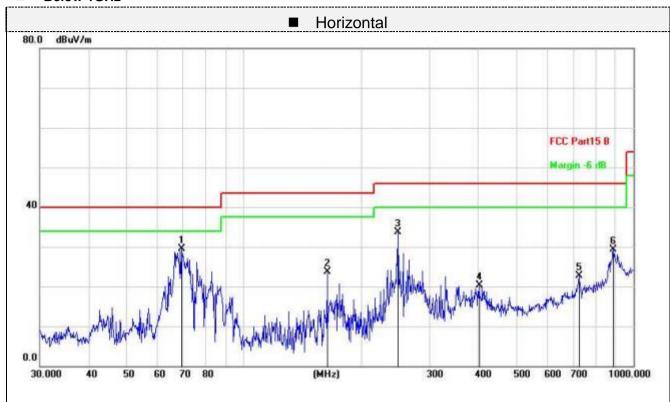
Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

■ 9kHz~30MHz

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.



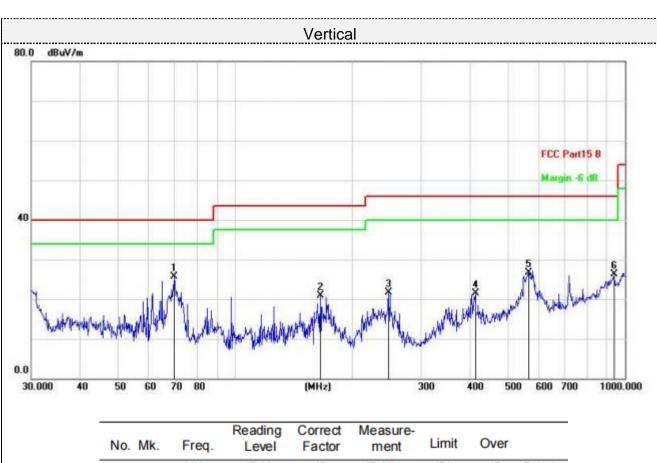
■ Below 1GHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	69.3568	49.27	-19.85	29.42	40.00	-10.58	QP
2		163.7550	41.79	-18.16	23.63	43.50	-19.87	QP
3		248.5519	52.43	-18.80	33.63	46.00	-12.37	QP
4		401.8385	34.51	-14.15	20.36	46.00	-25.64	QP
5		724.2611	31.03	-8.42	22.61	46.00	-23.39	QP
6		887.6099	34.24	-5.02	29.22	46.00	-16.78	QP

Final Level =Receiver Read level + Correct Factor





No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	69.8450	45.66	-19.94	25.72	40.00	-14.28	QP
2		165.4866	39.55	-18.66	20.89	43.50	-22.61	QP
3		247.6819	40.45	-18.80	21.65	46.00	-24.35	QP
4		413.2706	35.59	-14.10	21.49	46.00	-24.51	QP
5		566.6223	37.03	-10.23	26.80	46.00	-19.20	QP
6		938.8326	31.21	-5.00	26.21	46.00	-19.79	QP

Final Level =Receiver Read level + Correct Factor



Above 1-25GHz

CH Low (2402MHz)

Horizontal:

		Antenna		Preamp				
Frequency	Meter Reading	Factor	Cable Loss	Factor	Emission Level	Limits	Margin	
								Detector
(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4804	51.24	31.40	8.18	32.10	58.72	74.00	-15.28	peak
4804	36.04	31.40	8.18	32.10	43.52	54.00	-10.48	AVG
7206	44.15	35.80	10.83	31.40	59.38	74.00	-14.62	peak
7206	28.77	35.80	10.83	31.40	44.00	54.00	-10.00	AVG

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier.

Vertical:

		Antenna		Preamp				
Frequency	Meter Reading	Factor	Cable Loss	Factor	Emission Level	Limits	Margin	
								Detector
(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
4804	52.34	31.40	8.18	32.10	59.82	74.00	-14.18	peak
400.4	00.45	04.40	0.40	00.40	40.00	54.00	40.07	41/0
4804	36.15	31.40	8.18	32.10	43.63	54.00	-10.37	AVG
7206	43.89	35.80	10.83	31.40	59.12	74.00	-14.88	peak
7206	29.50	35.80	10.83	31.40	44.73	54.00	-9.27	AVG



CH Middle (2440MHz)

Horizontal:

		Antenna		Preamp				
Frequency	Meter Reading	Factor	Cable Loss	Factor	Emission Level	Limits	Margin	
								Detector
(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
4880	51.67	31.40	9.17	32.10	60.14	74.00	-13.86	peak
+000	31.07	01.40	5.17	02.10	00.14	7 4.00	10.00	pour
4880	36.85	31.40	9.17	32.10	45.32	54.00	-8.68	AVG
7320	42.69	35.80	10.83	31.40	57.92	74.00	-16.08	peak
7320	27.98	35.80	10.83	31.40	43.21	54.00	-10.79	AVG

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier.

Vertical:

		Antenna		Preamp				
Frequency	Meter Reading	Factor	Cable Loss	Factor	Emission Level	Limits	Margin	
								Detector
(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
4880	51.69	31.40	9.17	32.10	60.16	74.00	-13.84	peak
4880	36.55	31.40	9.17	32.10	45.02	54.00	-8.98	AVG
7320	44.05	35.80	10.83	31.40	59.28	74.00	-14.72	peak
7320	27.66	35.80	10.83	31.40	42.89	54.00	-11.11	AVG

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier.



CH High (2480MHz)

Horizontal:

		Antenna		Preamp				
Frequency	Meter Reading	Factor	Cable Loss	Factor	Emission Level	Limits	Margin	
								Detector
(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
4960	50.12	31.40	9.17	32.10	58.59	74.00	-15.41	peak
4960	37.45	31.40	9.17	32.10	45.92	54.00	-8.08	AVG
7440	44.06	35.80	10.83	31.40	59.29	74.00	-14.71	peak
7440	29.58	35.80	10.83	31.40	44.81	54.00	-9.19	AVG

Vertical:

		Antenna		Preamp				
Frequency	Meter Reading	Factor	Cable Loss	Factor	Emission Level	Limits	Margin	
								Detector
(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
4960	51.26	31.40	9.17	32.10	59.73	74.00	-14.27	peak
4960	36.48	31.40	9.17	32.10	44.95	54.00	-9.05	AVG
7440	41.69	35.80	10.83	31.40	56.92	74.00	-17.08	peak
7440	28.75	35.80	10.83	31.40	43.98	54.00	-10.02	AVG

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier.

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.



7. Test Setup Photo

Reference to the appendix I for details.

8. EUT Constructional Details

Reference to the appendix II for details.

