

Shenzhen HTT Technology Co., Ltd.

Report No.: HTT202404267F01

TEST Report

Applicant: Dongguan MEMO Technology Co., Ltd.

Address of Applicant: Room 501, Building 2, No. 43, Fenghuangwei Road, Fenggang

Town, Dongguan City, Guangdong Province, China

Manufacturer: Dongguan MEMO Technology Co., Ltd.

Address of Room 501, Building 2, No. 43, Fenghuangwei Road, Fenggang

Manufacturer: Town, Dongguan City, Guangdong Province, China

Equipment Under Test (EUT)

Product Name: mobile game stretch handle

Model No.: S2

Series model: S1, S3, S4, S5, S6, S7, S8, S9, S10, S11, S12,

S13, S14, S15, S16, S17, S18, S19, S20, M05

Trade Mark: N/A

FCC ID: 2BF2X-S2

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

Date of sample receipt: Apr. 15, 2024

Date of Test: Apr. 15, 2024 ~ Apr. 22, 2024

Date of report issued: Apr. 22, 2024

Test Result: PASS *

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



1. Version

Version No.	Date	Description
00	Apr. 22, 2024	Original

Tested/ Prepared By	Heber He	Date:	Apr. 22, 2024
	Project Engineer		
Check By:	Bruce Zhu	Date:	Apr. 22, 2024
	Reviewer		
Approved By :	Kein Yang HT	Date:	Apr. 22, 2024
	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	1~18GHz	3.54 dB	(1)
Radiated Emission	18-40GHz	5.38 dB	(1)
Conducted Disturbance	0.15~30MHz	2.66 dB	(1)
Note (1): The measurement unc	ertainty is for coverage factor of k	=2 and a level of confidence of 9	95%.



4. General Information

4.1. General Description of EUT

<u>-</u>	
Product Name:	mobile game stretch handle
Model No.:	S2
Series model:	S1, S3, S4, S5, S6, S7, S8, S9, S10, S11, S12, S13, S14, S15, S16, S17, S18, S19, S20, M05
Test sample(s) ID:	HTT202404267-1(Engineer sample) HTT202404267-2(Normal sample)
Operation frequency	2402~2480 MHz
Number of Channels	40
Modulation Type	GFSK
Channel separation	2MHz
Antenna Type:	Chip Antenna
Antenna Gain:	1.9 dBi
Power Supply:	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



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 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



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 2021	Aug. 09 2024
2	Control Room	Shenzhen C.R.T technology co., LTD	4.8*3.5*3.0	HTT-E030	Aug. 10 2021	Aug. 09 2024
3	EMI Test Receiver	Rohde&Schwar	ESCI7	HTT-E022	Apr. 26 2023	Apr. 25 2024
4	Spectrum Analyzer	Rohde&Schwar	FSP	HTT-E037	Apr. 26 2023	Apr. 25 2024
5	Coaxial Cable	ZDecl	ZT26-NJ-NJ-0.6M	HTT-E018	Apr. 26 2023	Apr. 25 2024
6	Coaxial Cable	ZDecl	ZT26-NJ-SMAJ-2M	HTT-E019	Apr. 26 2023	Apr. 25 2024
7	Coaxial Cable	ZDecl	ZT26-NJ-SMAJ-0.6M	HTT-E020	Apr. 26 2023	Apr. 25 2024
8	Coaxial Cable	ZDecl	ZT26-NJ-SMAJ-8.5M	HTT-E021	Apr. 26 2023	Apr. 25 2024
9	Composite logarithmic antenna	Schwarzbeck	VULB 9168	HTT-E017	May. 21 2023	May. 20 2024
10	Horn Antenna	Schwarzbeck	BBHA9120D	HTT-E016	May. 20 2023	May. 19 2024
11	Loop Antenna	Zhinan	ZN30900C	HTT-E039	Apr. 26 2023	Apr. 25 2024
12	Horn Antenna	Beijing Hangwei Dayang	OBH100400	HTT-E040	Apr. 26 2023	Apr. 25 2024
13	low frequency Amplifier	Sonoma Instrument	310	HTT-E015	Apr. 26 2023	Apr. 25 2024
14	high-frequency Amplifier	HP	8449B	HTT-E014	Apr. 26 2023	Apr. 25 2024
15	Variable frequency power supply	Shenzhen Anbiao Instrument Co., Ltd	ANB-10VA	HTT-082	Apr. 26 2023	Apr. 25 2024
16	EMI Test Receiver	Rohde & Schwarz	ESCS30	HTT-E004	Apr. 26 2023	Apr. 25 2024
17	Artificial Mains	Rohde & Schwarz	ESH3-Z5	HTT-E006	May. 23 2023	May. 22 2024
18	Artificial Mains	Rohde & Schwarz	ENV-216	HTT-E038	May. 23 2023	May. 22 2024
19	Cable Line	Robinson	Z302S-NJ-BNCJ-1.5M	HTT-E001	Apr. 26 2023	Apr. 25 2024
20	Attenuator	Robinson	6810.17A	HTT-E007	Apr. 26 2023	Apr. 25 2024
21	Variable frequency power supply	Shenzhen Yanghong Electric Co., Ltd	YF-650 (5KVA)	HTT-E032	Apr. 26 2023	Apr. 25 2024
22	Control Room	Shenzhen C.R.T technology co., LTD	8*4*3.5	HTT-E029	Aug. 10 2021	Aug. 09 2024
23	DC power supply	Agilent	E3632A	HTT-E023	Apr. 26 2023	Apr. 25 2024
24	EMI Test Receiver	Agilent	N9020A	HTT-E024	Apr. 26 2023	Apr. 25 2024
25	Analog signal generator	Agilent	N5181A	HTT-E025	Apr. 26 2023	Apr. 25 2024
26	Vector signal generator	Agilent	N5182A	HTT-E026	Apr. 26 2023	Apr. 25 2024
27	Power sensor	Keysight	U2021XA	HTT-E027	Apr. 26 2023	Apr. 25 2024
28	Temperature and humidity meter	Shenzhen Anbiao Instrument Co., Ltd	TH10R	HTT-074	Apr. 28 2023	Apr. 27 2024
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

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

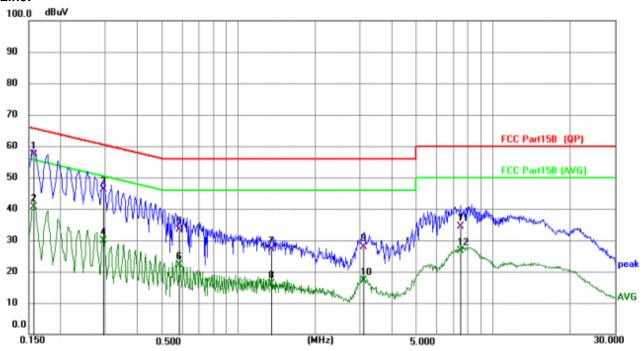
Test Requirement:	FCC Part15 C Section 15.207			
Test Method:	ANSI C63.10:2013			
Test Frequency Range:	150KHz to 30MHz			
Class / Severity:	Class B			
Receiver setup:	RBW=9KHz, VBW=30KHz, St	weep time=auto		
Limit:	Fraguency range (MILIT)	Limit	(dBuV)	
	Frequency range (MHz)	Quasi-peak	Avera	
	0.15-0.5	66 to 56*	56 to	
	0.5-5	56	46	
	5-30 * Decreases with the logarithn	60	50)
Test setup:	Reference Plane			
Test procedure:	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.			
	LISN that provides a 50ohn termination. (Please refer to photographs). 3. Both sides of A.C. line are interference. In order to find positions of equipment and according to ANSI C63.10::	o the block diagram of checked for maximum d the maximum emist all of the interface ca	of the test set m conducted sion, the relat ables must be	up and tive e changed
Test Instruments:	Refer to section 6.0 for details	3		
Test mode:	Refer to section 5.2 for details	i		
Test environment:	Temp.: 25 °C Hun	nid.: 52%	Press.:	1012mbar
Test voltage:	AC 120V, 60Hz	1	<u> </u>	
Test results:	Pass			

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



Measurement data:

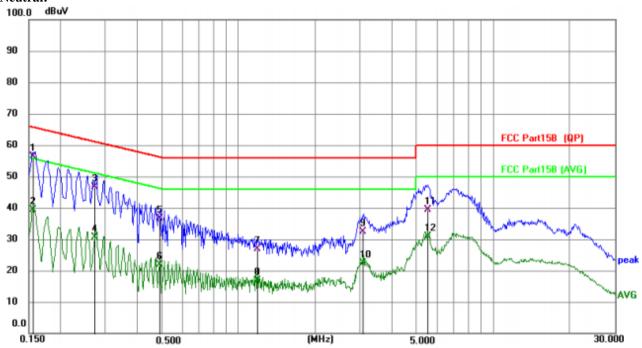




No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz		dB	dBuV	dBuV	dB	Detector
1 *	0.1564	47.21	10.16	57.37	65.65	-8.28	QP
2	0.1564	30.35	10.16	40.51	55.65	-15.14	AVG
3	0.2940	35.87	10.24	46.11	60.41	-14.30	QP
4	0.2940	19.73	10.24	29.97	50.41	-20.44	AVG
5	0.5851	22.99	10.31	33.30	56.00	-22.70	QP
6	0.5851	11.90	10.31	22.21	46.00	-23.79	AVG
7	1.3502	16.61	10.41	27.02	56.00	-28.98	QP
8	1.3502	5.83	10.41	16.24	46.00	-29.76	AVG
9	3.1137	17.34	10.51	27.85	56.00	-28.15	QP
10	3.1137	6.52	10.51	17.03	46.00	-28.97	AVG
11	7.4660	23.76	10.63	34.39	60.00	-25.61	QP
12	7.4660	15.94	10.63	26.57	50.00	-23.43	AVG







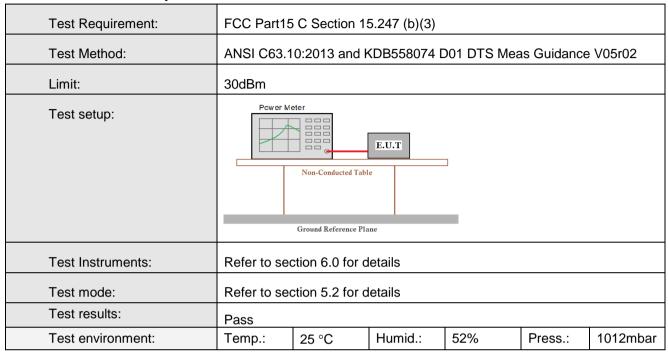
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1	*	0.1558	46.14	10.16	56.30	65.68	-9.38	QP
2		0.1558	29.24	10.16	39.40	55.68	-16.28	AVG
3		0.2733	36.49	10.23	46.72	61.02	-14.30	QP
4		0.2733	20.36	10.23	30.59	51.02	-20.43	AVG
5		0.4885	26.25	10.28	36.53	56.19	-19.66	QP
6		0.4885	11.65	10.28	21.93	46.19	-24.26	AVG
7		1.1907	16.59	10.34	26.93	56.00	-29.07	QP
8		1.1907	6.61	10.34	16.95	46.00	-29.05	AVG
9		3.0943	21.91	10.45	32.36	56.00	-23.64	QP
10		3.0943	11.83	10.45	22.28	46.00	-23.72	AVG
11		5.5257	28.91	10.59	39.50	60.00	-20.50	QP
12		5.5257	20.23	10.59	30.82	50.00	-19.18	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

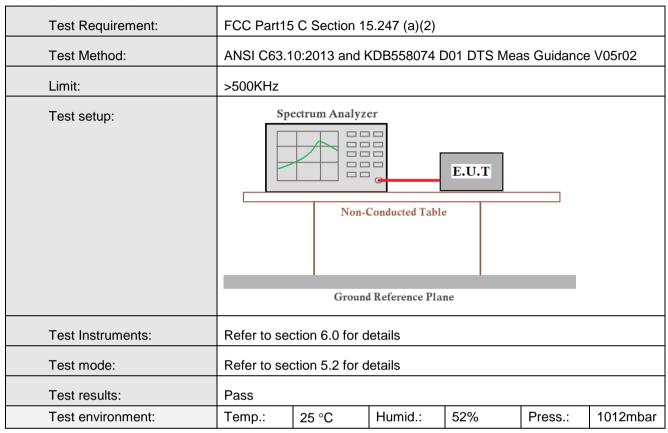


Measurement Data

Test channel	Peak Output Power (dBm)	Limit(dBm)	Result	
Lowest	5.36			
Middle	4.79	30.00	Pass	
Highest	3.44			



6.3. Channel Bandwidth

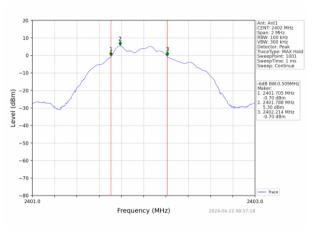


Measurement Data

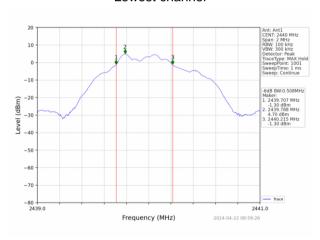
Test channel	Channel Bandwidth (MHz)	Limit(KHz)	Result
Lowest	0.509		
Middle	0.508	>500	Pass
Highest	0.506		



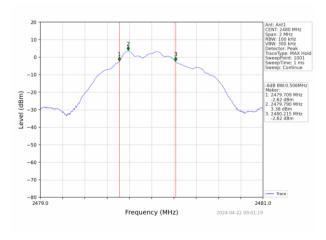
Test plot as follows:



Lowest channel



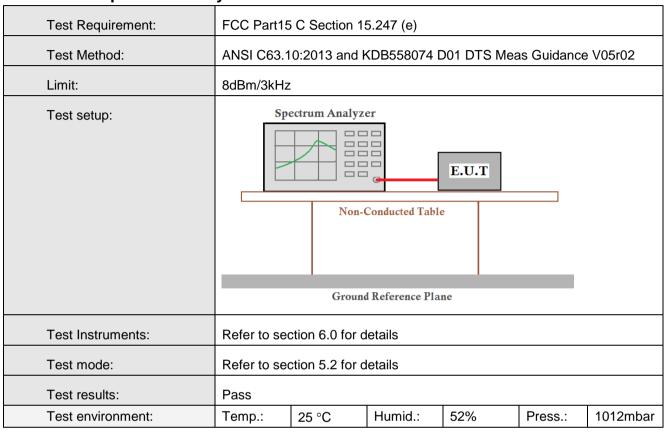
Middle channel



Highest channel



6.4. Power Spectral Density

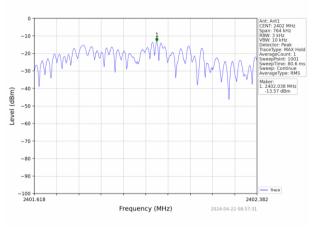


Measurement Data

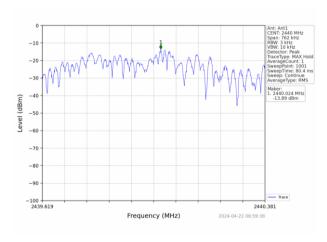
Test channel	Power Spectral Density (dBm/3kHz)	Limit(dBm/3kHz)	Result	
Lowest	-13.57			
Middle	Middle -13.89		Pass	
Highest	-14.83			



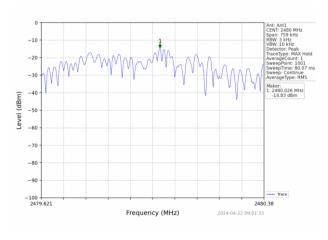
Test plot as follows:



Lowest channel



Middle channel



Highest channel

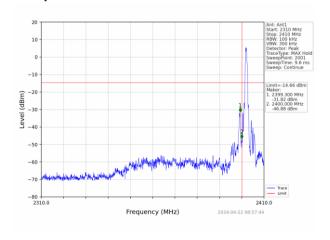


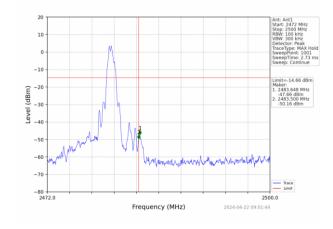
6.5. Band edges

6.5.1 Conducted Emission Method

				0.3.1 Conducted Linission Metriod								
Test Requirement:	FCC Part15	C Section 1	5.247 (d)									
Test Method:	ANSI C63.1	0:2013 and k	KDB558074 I	D01 DTS Mea	as Guidance	v05r02						
Limit:	spectrum in is produced the 100 kHz	tentional radi by the intent bandwidth w power, based	ator is opera ional radiato vithin the bar	e frequency batting, the radio r shall be at lead and that contain n RF conduct	o frequency east 20 dB b ns the highe	power that below that in st level of						
Test setup:	Spo											
Test Instruments:	Refer to sec	ction 6.0 for d	letails									
Test mode:	Refer to sec	ction 5.2 for d	letails									
Test results:	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 Section 1	5.209 and	15.205						
Test Method:	ANSI C63.10):2013								
Test Frequency Range:	All of the res 2500MHz) da			ed, only	the wor	st band's (2	2310MHz to			
Test site:	Measuremen									
Receiver setup:	Frequency	Detec	ctor	RBW	VBW	/ \	/alue			
•	Above 1GH	Pea	k '	1MHz	3MHz	z F	Peak			
	Above 1GH	RM	S ′	1MHz	3MHz	z Av	/erage			
Limit:	Fred	quency	Limi	t (dBuV/	m @3m	n) \	/alue			
	Ahov	e 1GHz		54.00			erage			
Test setup:	71001	O TOTIZ		74.0	0	F	Peak			
	Tum Table (150cm)	EUT+	·	est Antenna-						
Test Procedure:	1 The FLIT	was nlaced	1 1 1 1 1 1 1 1 1			le 1.5 mete	rs ahove			
	determine 2. The EUT vantenna, vantenna, vantenna, vanten ground to horizontal measurem 4. For each sand then tand the rothe maxim 5. The test-rospecified 6. If the emislimit specitive EUT vanden maxim 10dB margaverage maximal specified	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 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. 7. The radiation measurements are performed in X, Y, Z axis positioning.								
Test Instruments:	Refer to sect									
Test mode:	Refer to sect	ion 5.2 for d	etails							
Test results:	Pass									
Test environment:	Temp.:	25 °C	Humid.:	52%)	Press.:	1012mbar			



Measurement Data

Report No.: HTT202404267F01

Operation Mode: GFSK

Freque	ncy(MHz)	:	24	.02	Pola	Polarity:		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)	
2390.00	59.99	PK	74	14.01	61.38	27.2	4.31	32.9	-1.39	
2390.00	44.98	AV	54	9.02	46.37	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	60.01	PK	74	13.99	61.40	27.2	4.31	32.9	-1.39	
2390.00	46.45	AV	54	7.55	47.84	27.2	4.31	32.9	-1.39	
Freque	ncy(MHz)	:	2480		P olarity:		н	IORIZONTA	\L	
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	55.43	PK	74	18.57	56.36	27.4	4.47	32.8	-0.93	
2483.50	45.20	AV	54	8.80	46.13	27.4	4.47	32.8	-0.93	
Freque	ncy(MHz)	:	24	80	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)	
2483.50	55.75	PK	74	18.25	56.68	27.4	4.47	32.8	-0.93	
2483.50	43.90	AV	54	10.10	44.83	27.4	4.47	32.8	-0.93	

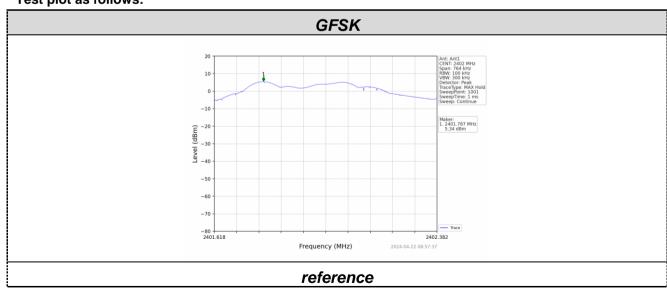


6.6. Spurious Emission

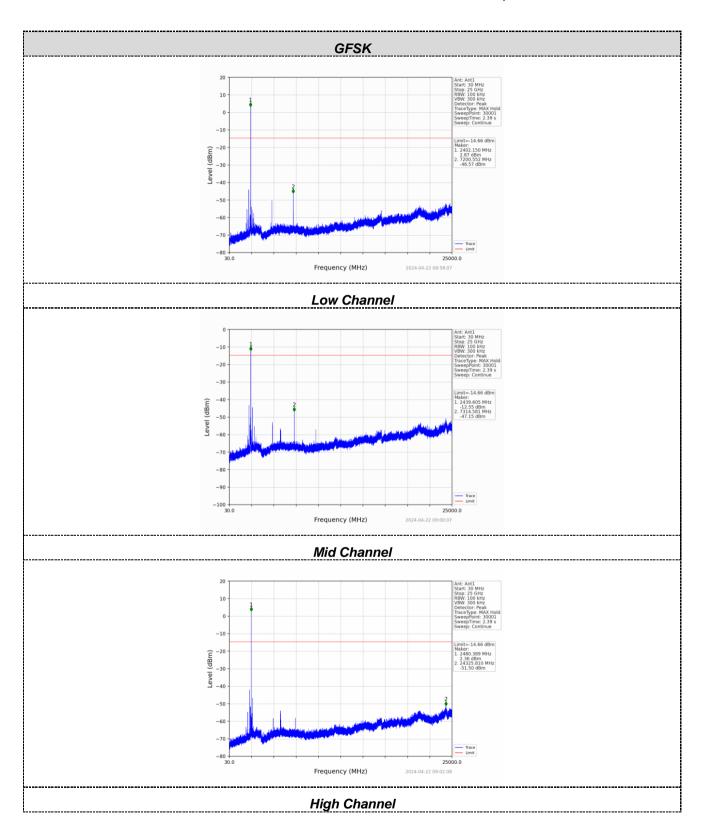
6.6.1 Conducted Emission Method

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 ir is produced the 100 kHz	kHz bandwidt Itentional radi I by the intent I bandwidth w power, based ent.	ator is opera ional radiator vithin the ban	ting, the radion shall be at lead that contain	o frequency east 20 dB I ns the highe	power that below that in est level of		
Test setup:	Sp							
Test Instruments:	Refer to see	ction 6.0 for d	letails					
Test mode:	Refer to se	ction 5.2 for d	letails					
Test results:	Pass							
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar		

Test plot as follows:





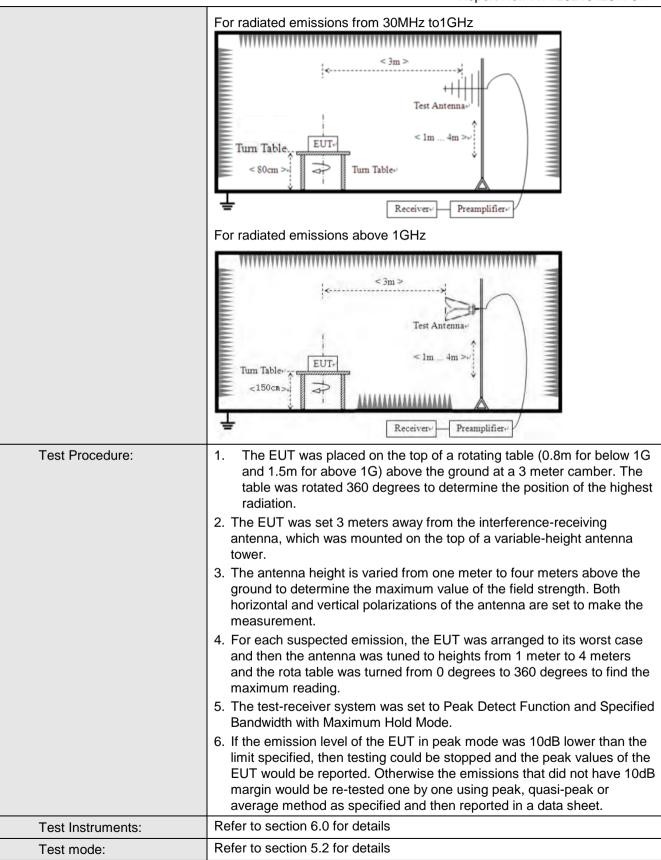




6.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209							
Test Method:	ANSI C63.10:2013							
Test Frequency Range:	9kHz to 25GHz							
Test site:	Measurement Distar	nce: 3	3m					
Receiver setup:	Frequency		Detector	Detector RBV		VBW	Value	
	9KHz-150KHz	Qı	ıasi-peak 200H		Hz	600Hz	z Quasi-peak	
	150KHz-30MHz	Qı	uasi-peak	9Kł	Ηz	30KH:	z Quasi-peak	
	30MHz-1GHz	30MHz-1GHz Quasi-		120k	Ήz	300KH	Iz Quasi-peak	
	Above 1GHz		Peak	1MI	Ηz	3MHz	z Peak	
	Above 10112		Peak	1MI	Ηz	10Hz	Average	
Limit:	Frequency	Limit (u\	//m)	V	/alue	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		200			QP	3m	
	960MHz-1GHz		500		QP		5	
	Above 1GHz		500		Average			
			5000)	F	Peak		
Test setup:	For radiated emission	ns fr	om 9kHz to	30MH	Z			
	Test Antenna Turn Table EUT Im							







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

Measurement data:

Remark:

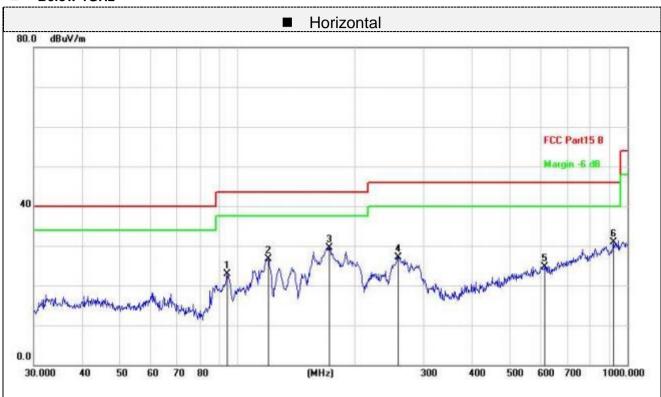
Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

■ 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.

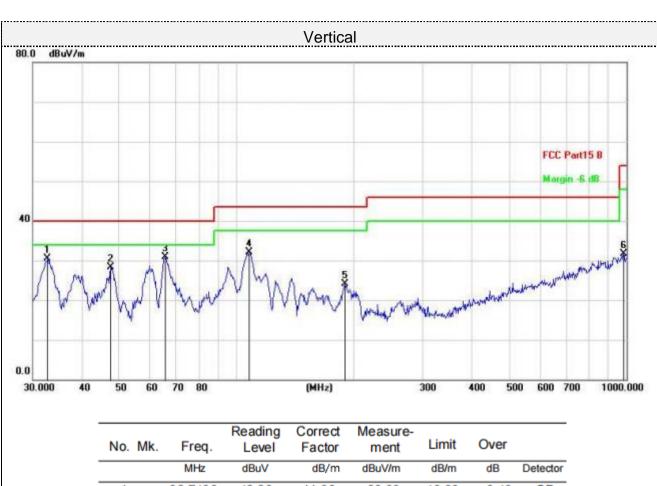


■ Below 1GHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dB/m	dB	Detector
1		94.0979	38.15	-15.33	22.82	43.50	-20.68	QP
2		119.8556	39.86	-13.06	26.80	43.50	-16.70	QP
3	*	171.9946	40.78	-11.32	29.46	43.50	-14.04	QP
4		258.3264	38.61	-11.42	27.19	46.00	-18.81	QP
5		612.0642	28.12	-3.32	24.80	46.00	-21.20	QP
6		919.2866	28.94	2.02	30.96	46.00	-15.04	QP





No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dB/m	dB	Detector
1		32.7486	42.20	-11.60	30.60	40.00	-9.40	QP
2		47.4918	39.17	-10.83	28.34	40.00	-11.66	QP
3	*	65.5727	43.41	-12.57	30.84	40.00	-9.16	QP
4		107.8877	46.37	-14.23	32.14	43.50	-11.36	QP
5		189.7385	37.43	-13.33	24.10	43.50	-19.40	QP
6		982.6200	28.34	3.46	31.80	54.00	-22.20	QP

Final Level =Receiver Read level + Correct Factor



■ Above 1-25GHz

Frequency(MHz):			2402		Polarity:		HORIZONTAL		
Frequency	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw	Antenna	Cable	Pre-	Correction
					Value	Factor	Factor	amplifier	Factor
(MHz)					(dBuV)	(dB/m)	(dB)	(dB)	(dB/m)
4804.00	59.86	PK	74	14.14	54.16	31	6.5	31.8	5.7
4804.00	42.60	AV	54	11.40	36.90	31	6.5	31.8	5.7
7206.00	53.87	PK	74	20.13	41.22	36	8.15	31.5	12.65
7206.00	44.99	AV	54	9.01	32.34	36	8.15	31.5	12.65

Frequency(MHz):			2402		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4804.00	58.29	PK	74	15.71	52.59	31	6.5	31.8	5.7
4804.00	42.78	AV	54	11.22	37.08	31	6.5	31.8	5.7
7206.00	52.88	PK	74	21.12	40.23	36	8.15	31.5	12.65
7206.00	43.18	AV	54	10.82	30.53	36	8.15	31.5	12.65

Frequency(MHz):			2440		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4880.00	60.33	PK	74	13.67	54.17	31.2	6.61	31.65	6.16
4880.00	44.02	AV	54	9.98	37.86	31.2	6.61	31.65	6.16
7320.00	53.15	PK	74	20.85	40.20	36.2	8.23	31.48	12.95
7320.00	44.46	AV	54	9.54	31.51	36.2	8.23	31.48	12.95



Frequency(MHz):			2440		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level		Limit Margin	Margin	Raw	Antenna	Cable	Pre-	Correction
			(dBuV/m)	•	Value	Factor	Factor	amplifier	Factor
(IVII 1Z)	(dBuV/m)		(ubuv/III)		(dBuV)	(dB/m)	(dB)	(dB)	(dB/m)
4880.00	62.08	PK	74	11.92	55.92	31.2	6.61	31.65	6.16
4880.00	42.64	AV	54	11.36	36.48	31.2	6.61	31.65	6.16
7320.00	54.05	PK	74	19.95	41.10	36.2	8.23	31.48	12.95
7320.00	43.40	AV	54	10.60	30.45	36.2	8.23	31.48	12.95

Frequency(MHz):			2480		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4960.00	62.10	PK	74	11.90	55.44	31.4	6.76	31.5	6.66
4960.00	41.46	AV	54	12.54	34.80	31.4	6.76	31.5	6.66
7440.00	54.13	PK	74	19.87	40.83	36.4	8.35	31.45	13.3
7440.00	44.39	AV	54	9.61	31.09	36.4	8.35	31.45	13.3

Frequency(MHz):			2480		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4960.00	64.02	PK	74	9.98	57.36	31.4	6.76	31.5	6.66
4960.00	42.29	AV	54	11.71	35.63	31.4	6.76	31.5	6.66
7440.00	54.48	PK	74	19.52	41.18	36.4	8.35	31.45	13.3
7440.00	44.64	AV	54	9.36	31.34	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.



6.7. 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 1.9 dBi.

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.

