

## Global United Technology Services Co., Ltd.

Report No.: GTS2024070303F01

## **TEST REPORT**

Hall Technologies **Applicant:** 

**Address of Applicant:** 1234 Lakeshore Dr. Suite 150, Coppell, Texas 75019, United

States

Manufacturer: Shen Zhen Proitav Technology Co., Ltd

Address of 301-401, Building 16, Hejing Industrial Zone, No. 87 Hexiu West Road, Zhancheng Community, Fuhai Street, Baoan Manufacturer:

District, Shenzhen, China

**Equipment Under Test (EUT)** 

Product Name: ComAlert Kit

Model No .: HT-COMALERT-KIT

Trade Mark: Hall Technologies

FCC ID: 2A8VX-HTKIT

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

July 23, 2024 Date of sample receipt:

July 24, 2024-September 11, 2024 Date of Test:

September 11, 2024 Date of report issued:

PASS \* Test Result:

Authorized Signature:



**Robinson Luo Laboratory Manager** 

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver. Page 1 of 35

<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



## 2 Version

Version No.	Date	Description		
00	September 11, 2024	Original		

Prepared By:	Project Engineer	Date:	September 11, 2024
Check By:	Reviewer	Date:	September 11, 2024

# **GTS**

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## 4 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**

No.	Item	Measurement Uncertainty		
1	Radio Frequency	±7.25×10 <sup>-8</sup>		
2	Duty cycle	±0.37%		
3	Occupied Bandwidth	±3%		
4	RF conducted power	±0.75dB		
5	RF power density	±3dB		
6	Conducted Spurious emissions	±2.58dB		
7	AC Power Line Conducted Emission	±3.44dB (0.15MHz ~ 30MHz)		
		±3.1dB (9kHz-30MHz)		
		±3.8039dB (30MHz-200MHz)		
8	Radiated Spurious emission test	±3.9679dB (200MHz-1GHz)		
		±4.29dB (1GHz-18GHz)		
		±3.30dB (18GHz-40GHz)		
9	Temperature test	±1°C		
10	Humidity test	±3%		
11	Time	±3%		



## 5 General Information

## 5.1 General Description of EUT

Product Name:	ComAlert Kit
Model No.:	HT-COMALERT-KIT
Test sample(s) ID:	GTS2024070303-1
Sample(s) Status:	Engineer sample
S/N:	11602418007
Operation Frequency:	2402MHz~2480MHz
Channel numbers:	79
Channel separation:	1MHz
Modulation type:	GFSK, π/4-DQPSK, 8-DPSK
Antenna Type:	2.4GHz Wave-Shaped Antenna
Antenna gain: 3.58dBi(declare by applicant)	
Power supply:	DC 5.0V (Powered by Type-C port)

#### Remark:

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

Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



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



#### 5.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode.
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#### 5.3 Description of Support Units

Manufacturer	Manufacturer Description		Serial Number
Lenovo	Notebook PC	E40-80	N/A

#### 5.4 Deviation from Standards

None.

#### 5.5 Abnormalities from Standard Conditions

None.

#### 5.6 Test Facility

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

• FCC—Registration No.: 381383

Designation Number: CN5029

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files.

• ISED—Registration No.: 9079A

CAB identifier: CN0091

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

• NVLAP (LAB CODE:600179-0)

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

#### 5.7 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480 Fax: 0755-27798960

#### 5.8 Additional Instructions

Test Software	Special test software provided by manufacturer
Power level setup	Default



## 6 Test Instruments list

Radia	Radiated Emission:							
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)		
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	June 22, 2024	June 21, 2027		
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A		
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	April 11, 2024	April 10, 2025		
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9168	GTS640	March 19, 2023	March 18, 2025		
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	April 17, 2023	April 16, 2025		
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
7	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	April 11, 2024	April 10, 2025		
8	Loop Antenna	ZHINAN	ZN30900A	GTS534	Nov. 13, 2023	Nov.12, 2024		
9	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	April 11, 2024	April 10, 2025		
10	Amplifier(1GHz-26.5GHz)	HP	8449B	GTS601	April 11, 2024	April 10, 2025		
11	Horn Antenna (18- 26.5GHz)	1	UG-598A/U	GTS664	Oct. 29, 2023	Oct. 28, 2024		
12	Horn Antenna (26.5-40GHz)	A.H Systems	SAS-573	GTS665	Oct. 29, 2023	Oct. 28, 2024		
13	FSV·Signal Analyzer (10Hz-40GHz)	Keysight	FSV-40-N	GTS666	March 12, 2024	March 11, 2025		
14	Amplifier	1	LNA-1000-30S	GTS650	April 11, 2024	April 10, 2025		
15	CDNE M2+M3-16A	HCT	30MHz-300MHz	GTS692	Nov. 08, 2023	Nov.07, 2024		
16	Wideband Amplifier	1	WDA-01004000-15P35	GTS602	April 11, 2024	April 10, 2025		
17	Thermo meter	JINCHUANG	GSP-8A	GTS643	April 18, 2024	April 17, 2025		
18	RE cable 1	GTS	N/A	GTS675	July 02. 2024	July 01. 2025		
19	RE cable 2	GTS	N/A	GTS676	July 02. 2024	July 01. 2025		
20	RE cable 3	GTS	N/A	GTS677	July 02. 2024	July 01. 2025		
21	RE cable 4	GTS	N/A	GTS678	July 02. 2024	July 01. 2025		
22	RE cable 5	GTS	N/A	GTS679	July 02. 2024	July 01. 2025		
23	RE cable 6	GTS	N/A	GTS680	July 02. 2024	July 01. 2025		
24	RE cable 7	GTS	N/A	GTS681	July 05. 2024	July 04. 2025		
25 RE cable 8 GTS		N/A	GTS682	July 05. 2024	July 04. 2025			



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

RF C	onducted Test:					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	April 11, 2024	April 10, 2025
2	EMI Test Receiver	R&S	ESCI 7	GTS552	April 11, 2024	April 10, 2025
3	PSA Series Spectrum Analyzer	Agilent	E4440A	GTS536	April 11, 2024	April 10, 2025
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	April 11, 2024	April 10, 2025
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	April 11, 2024	April 10, 2025
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	April 11, 2024	April 10, 2025
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	April 11, 2024	April 10, 2025
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	April 11, 2024	April 10, 2025
9	Thermo meter	JINCHUANG	GSP-8A	GTS641	April 18, 2024	April 17, 2025
10	EXA Signal Analyzer	Keysight	N9010B	MY60241168	Nov. 03, 2023	Nov. 02, 2024

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



#### 7 Test results and Measurement Data

## 7.1 Antenna requirement

**Standard requirement:** FCC Part15 C Section 15.203 /247(c)

#### 15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### 15.247(c) (1)(i) requirement:

(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.

#### **E.U.T Antenna:**

The antenna is 2.4GHz Wave-Shaped antenna, reference to the appendix II for details.



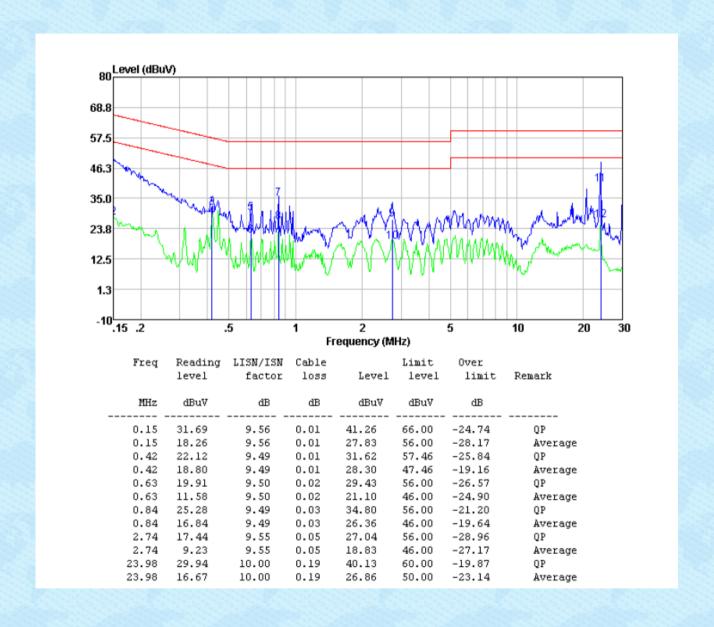
#### 7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207						
Test Method:	ANSI C63.10:2013						
Test Frequency Range:	150KHz to 30MHz						
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto						
Limit:	Frequency range (MHz)	Limit (	dBuV)				
		Quasi-peak	Average				
	0.15-0.5	66 to 56* 56	56 to 46*				
	0.5-5 5-30	46					
	* Decreases with the logarithm	60 n of the frequency.	00				
Test setup:	Reference Plane						
	AUX Equipment  Test table/Insulation plane  Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network	0cm LISN Filter A	AC power				
Test procedure:	<ol> <li>Test table height=0.8m</li> <li>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.</li> <li>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).</li> <li>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.</li> </ol>						
Test Instruments:	Refer to section 6.0 for details		- Casaroniona				
Test mode:	Refer to section 5.2 for details						
Test mode.  Test environment:	Temp.: 25 °C Hun		Press.: 1012mbar				
		iiu 52%	10121110al				
Test voltage:	AC 120V, 60Hz						
Test results:	Pass						



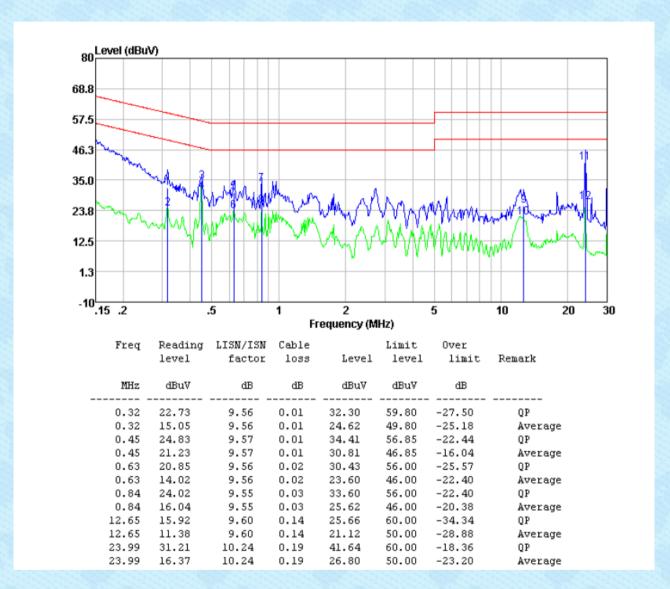
#### Measurement data:

Pre-scan all test modes, found worst case at GFSK 2402MHz, and so only show the test result of it **Line:** 





#### Neutral:



#### 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 Loss



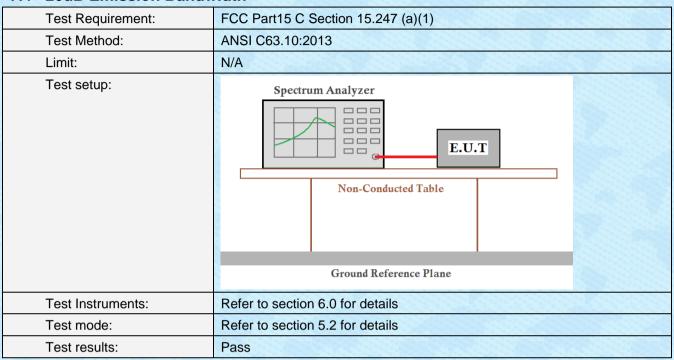
## 7.3 Conducted Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(1)						
Test Method:	ANSI C63.10:2013						
Limit:	FSK: 30dBm						
	π/4-DQPSK, 8-DPSK: 20.97dBm						
Test setup:	Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane						
Test Instruments:	Refer to section 6.0 for details						
Test mode:	Refer to section 5.2 for details						
Test results:	Pass						

Measurement Data: The detailed test data see Appendix for 2.4G.

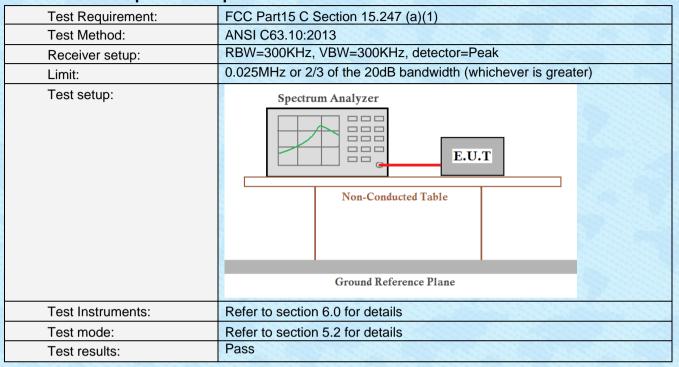


#### 7.4 20dB Emission Bandwidth



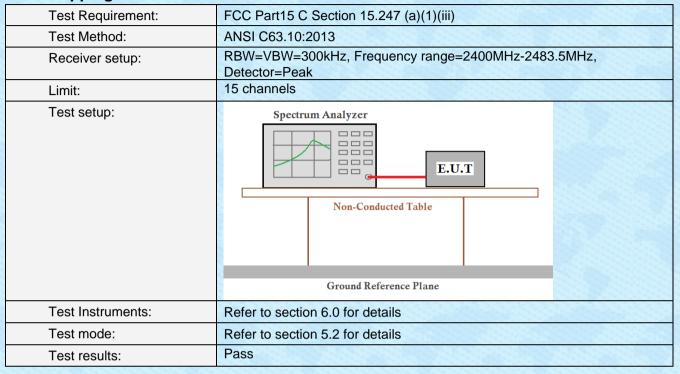


## 7.5 Carrier Frequencies Separation



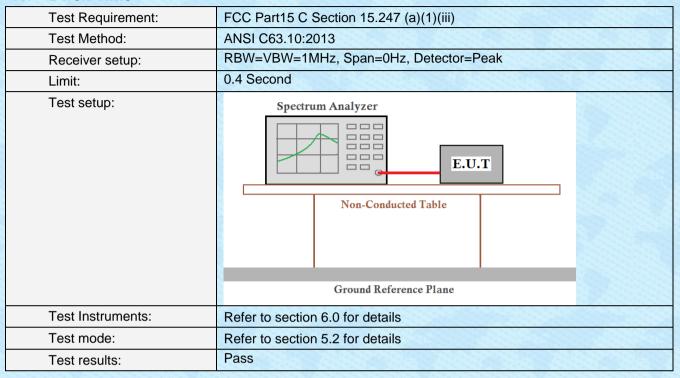


## 7.6 Hopping Channel Number





#### 7.7 Dwell Time





## 7.8 Spurious Emission in Non-restricted & restricted Bands

#### 7.8.1 Conducted Emission Method

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Test Requirement:	FCC Part15 C Section 15.247 (d)					
Test Method:	ANSI C63.10:2013					
Receiver setup:	RBW=100kHz, VBW=300kHz, Detector=Peak					
Limit:	n 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  Ground Reference Plane					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test results:	Pass					

**Measurement Data:** The detailed test data see Appendix for 2.4G.

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## 7.8.2 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 Distance: 3m					
Receiver setup:					Value	
rtoscivei setap.	9KHz-150KHz		ıasi-peak	200Hz		Quasi-peak
	150KHz-30MHz		iasi-peak	9KHz		Quasi-peak
	30MHz-1GHz					
			Peak	1MHz		Peak
	Above 1GHz	oove 1GHz		1MHz 10Hz		Average
	Note: For Duty cycle cycle < 98%, avera		98%, ave	rage det	ector set as	above For Duty
Limit:				Value	Measurement Distance	
	0.009MHz-0.490M	lHz	2400/F(k	(Hz)	PK/QP/AV	300m
	0.490MHz-1.705M	95MHz 24000/F(KHz) QP 30		(Hz) QP		30m
	1.705MHz-30MH	1.705MHz-30MHz 30			QP	30m
	30MHz-88MHz	30MHz-88MHz 100			QP	
	88MHz-216MHz	88MHz-216MHz 15			QP	
		216MHz-960MHz 200		QP	3m	
	960MHz-1GHz		500		QP	
	Above 1GHz		500		Average	
			5000		Peak	
Test setup:	For radiated emiss		< 3m >	z to 30N	Test Antenna	



Report No.: GTS2024070303F01 For radiated emissions from 30MHz to1GHz 4m > EUT. Tum Table Receiver Preamplifier. For radiated emissions above 1GHz < 3m > Test Antenna-< 1m ... 4m > EUT. Tum Table <150cm> Receiver-Preamplifier-Test Procedure: 1. The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) 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 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 mode: Refer to section 5.2 for details

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Report No.: GTS2024070303F01						
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar
Test voltage:	AC 120V, 60Hz					
Test results:	Pass					

#### Measurement data:

#### Remarks:

- 1. During the test, pre-scan the GFSK,  $\pi/4$ -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.

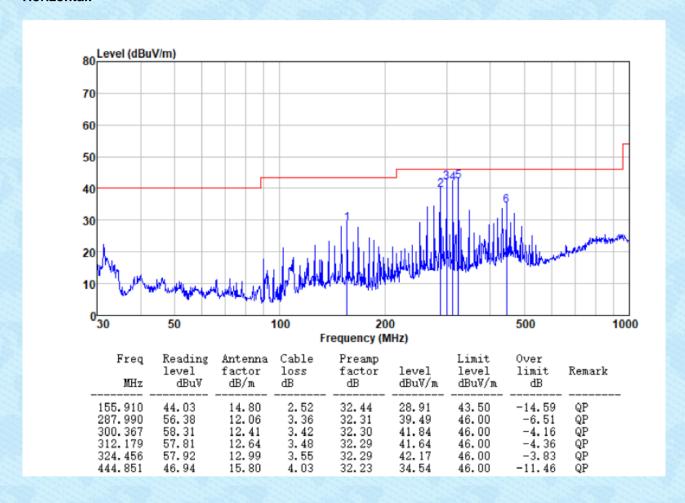
#### ■ 9kHz~30MHz

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

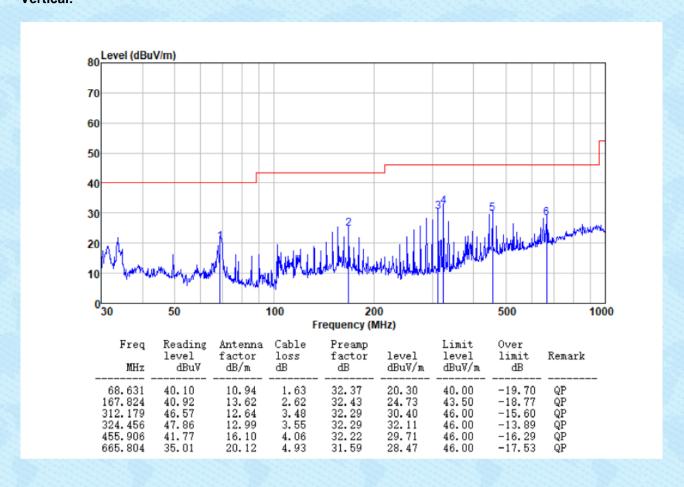
Pre-scan all test modes, found worst case at GFSK 2402MHz, and so only show the test result of it **Horizontal:** 





Vertical:

#### Report No.: GTS2024070303F01

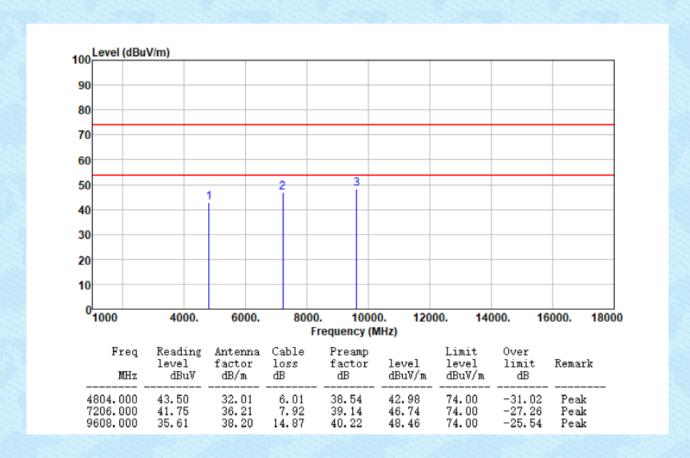




#### ■ Above 1GHz

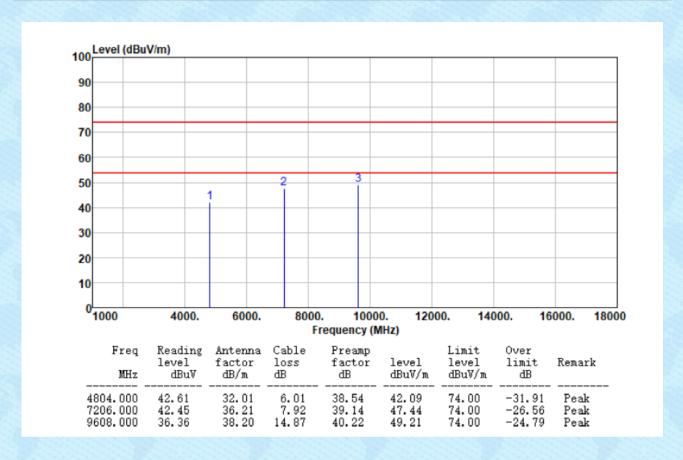
#### ■ Unwanted Emissions in Non-restricted Frequency Bands

Test channel: Lowest Polarization: Horizontal
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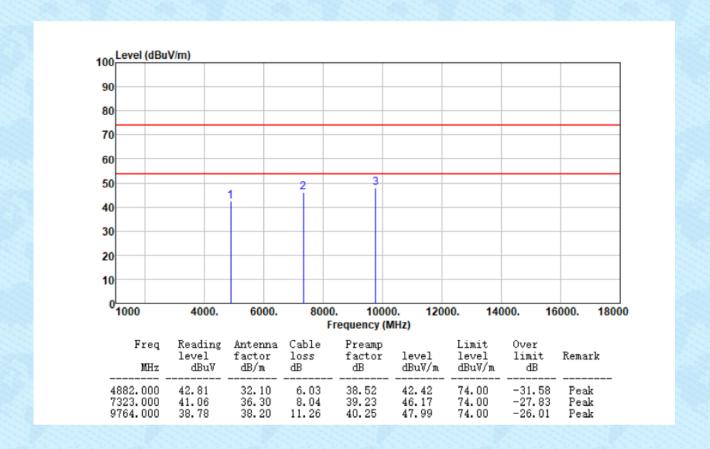


Test channel: Lowest Polarization: Vertical



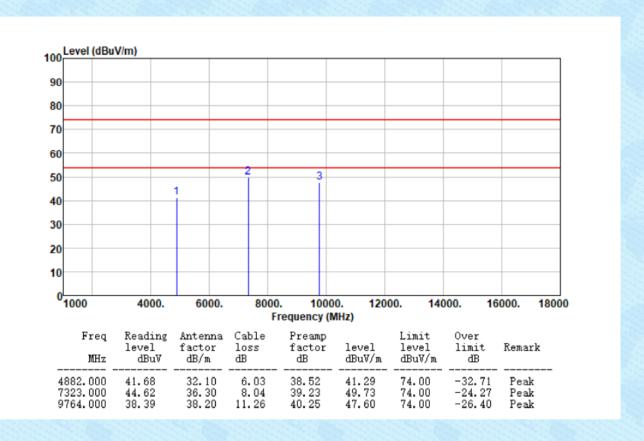


Test channel: Middle Polarization: Horizontal
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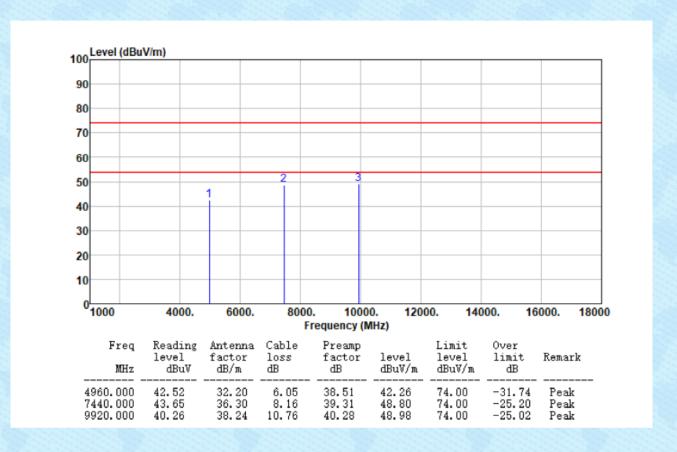




Test channel: Middle Polarization: Vertical	
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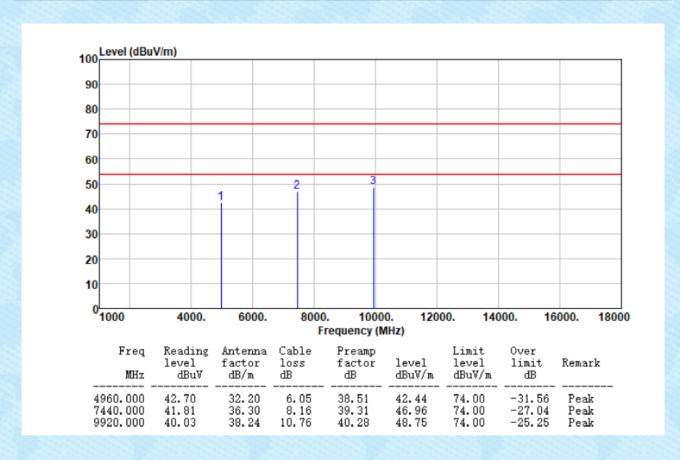








Test channel: Highest Polarization: Vertical	Test channel:	Highest	Polarization:	Vertical	
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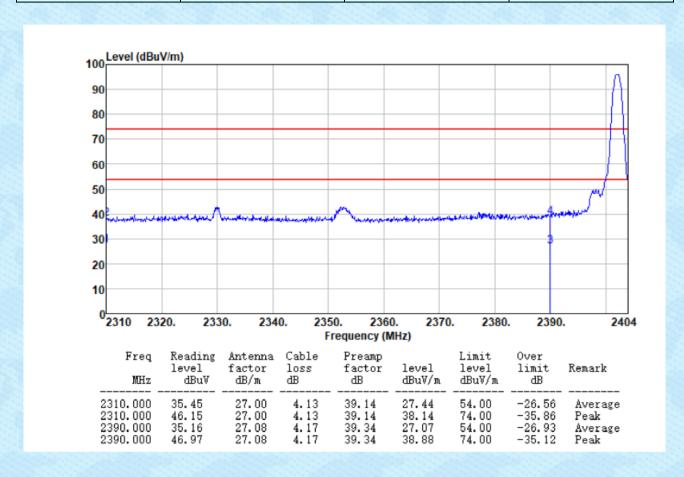
#### Remarks:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



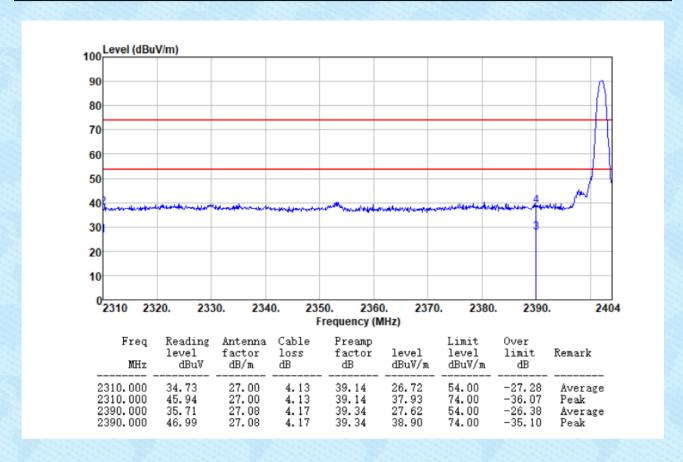
#### Unwanted Emissions in Restricted Frequency Bands

Test ch	annel:	Lowest	Polarization:	Horizontal
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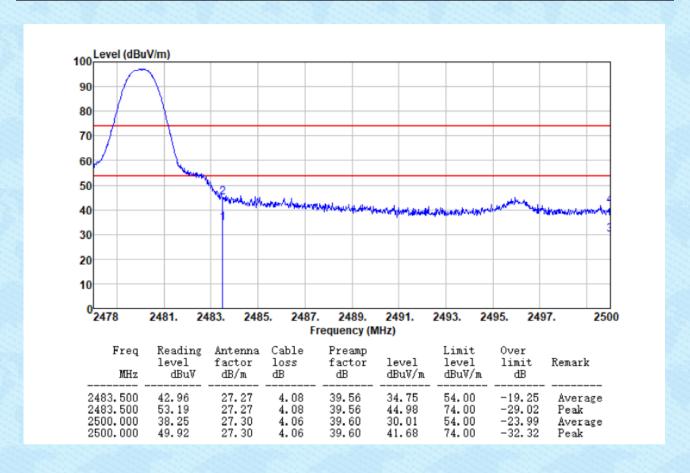


Test channel: Lowest Polarization: Vertical



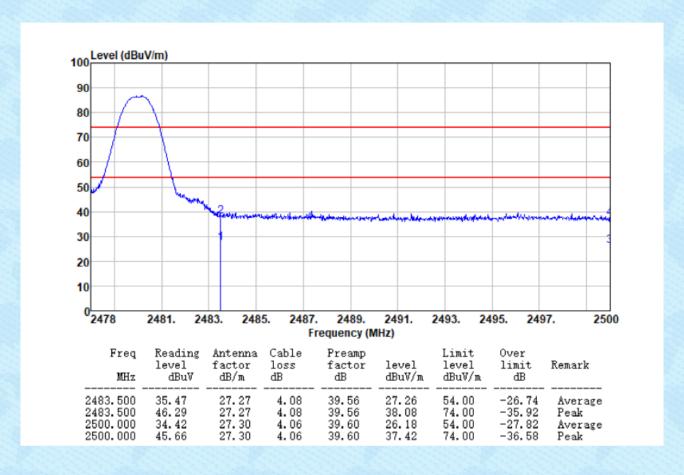


Test channel:   Highest   Polarization:   Horizontal	Test channel:	Highest	Polarization:	Horizontal	
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Test channel: Highest Polarization: Vertical	Test channel:	Highest	Polarization:	Vertical	
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#### Remarks:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



## 8 Test Setup Photo

Reference to the appendix I for details.

## 9 EUT Constructional Details

Reference to the appendix II for details.

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