

Global United Technology Services Co., Ltd.

Report No.: GTS202108000021F01

TEST REPORT

SHENZHEN GIEC DIGITAL CO., LTD **Applicant:**

1st&3rd Building, No.26 Puzai Road, Pingdi, Longgang **Address of Applicant:**

District, Shenzhen, China

SHENZHEN GIEC DIGITAL CO., LTD Manufacturer:

Address of 1st&3rd Building, No.26 Puzai Road, Pingdi, Longgang

District, Shenzhen, China Manufacturer:

SHENZHEN JOWAY POWER SUPPLY CO., LTD **Factory:**

Building 11, antuoshan hi tech Industrial Park, Shaer Address of Factory:

community, Shajing street, Bao'an District, Shenzhen, China

Equipment Under Test (EUT)

Product Name: Bluetooth headset

Model No.: **GIEC Y2006**

FCC ID: 2AHYK-GIECY2006

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

Date of sample receipt: August 03, 2021

Date of Test: August 03-10, 2021

Date of report issued: August 10, 2021

Test Result: PASS *

Authorized Signature:

Robinson Lu **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.

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



2 Version

Version No.	Date Date	Description			
00	August 10, 2021	Original			
		2 1 2 1 2 1 2 2 1 2 2 1 2 2 1			
2 2 2	0 2 2 2	2 2 2			
6 9 9 9 9	2 2 2 2 2 2				

Prepared By:	Joseph Cu	Date:	August 10, 2021	
	Project Engineer			
	lust			
Check By:	Lossingon lust	Date:	August 10, 2021	
	Poviowor			



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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

200		
BOMHz-200MHz	3.8039dB	(1)
200MHz-1GHz	3.9679dB	(1)
1GHz-18GHz	4.29dB	(1)
18GHz-40GHz	3.30dB	(1)
15MHz ~ 30MHz	3.44dB	(1)
	200MHz-1GHz	200MHz-1GHz 3.9679dB 1GHz-18GHz 4.29dB 18GHz-40GHz 3.30dB



5 General Information

5.1 General Description of EUT

Product Name:	Bluetooth headset
Model No.:	GIEC Y2006
Test sample(s) ID:	GTS202108000021-1
Sample(s) Status:	Engineer sample
Serial No.:	GIECY2006X21070100018
Hardware Version:	DHF-W29-V1.1(6976D)
Software Version:	GIEC20210710
Operation Frequency:	2402MHz~2480MHz
Channel numbers:	79
Channel separation:	1MHz
Modulation type:	GFSK, π/4-DQPSK, 8-DPSK
Antenna Type:	Integral Antenna
Antenna gain:	1.8dBi(declare by applicant)
Power supply:	Charge box: Battery DC 3.7V, 400mAh, 1.48Wh
	Earphone: Battery DC 3.7V, 0.9Wh



Operation I	Frequency eac	h of channel		8	S S	7 8	
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	6	

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.

Remark: During the test, the duty cycle >98%, 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.

Description of Support Units

None.

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.

• IC —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 Industry Canada 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).

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 command provided by manufacturer	100
Power level setup	Default	



6 Test Instruments list

Rad	iated Emission:	9 10	9 9 9	10	9	2 10
ltem	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic ZhongYu Electron		9.2(L)*6.2(W)* 6.4(H)	GTS250	July. 02 2020	July. 01 2025
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	June. 24 2021	June. 23 2022
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 24 2021	June. 23 2022
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 24 2021	June. 23 2022
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 24 2021	June. 23 2022
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	June. 24 2021	June. 23 2022
9	Coaxial Cable	GTS	N/A	GTS211	June. 24 2021	June. 23 2022
10	Coaxial cable	GTS	N/A	GTS210	June. 24 2021	June. 23 2022
11	Coaxial Cable	GTS	N/A	GTS212	June. 24 2021	June. 23 2022
12	Amplifier(100kHz-3GHz)	∌ HP ∌	8347A	GTS204	June. 24 2021	June. 23 2022
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 24 2021	June. 23 2022
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 24 2021	June. 23 2022
15	Band filter	Amindeon	82346	GTS219	June. 24 2021	June. 23 2022
16	Power Meter	Anritsu	ML2495A	GTS540	June. 24 2021	June. 23 2022
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 24 2021	June. 23 2022
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 24 2021	June. 23 2022
19	Splitter	Agilent	11636B	GTS237	June. 24 2021	June. 23 2022
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 24 2021	June. 23 2022
21	Breithand		BBHA 9170	GTS579	Oct. 18 2020	Oct. 17 2021
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 18 2020	Oct. 17 2021
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 18 2020	Oct. 17 2021
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 24 2021	June. 23 2022



Cond	ducted Emission	6 6	6 6 6	.69	6 9	6 6
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	May.15 2019	May.14 2022
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 24 2021	June. 23 2022
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 24 2021	June. 23 2022
4 ENV216 2-L-V- NETZNACHB.DE		ROHDE&SCHWARZ	ENV216	GTS226	June. 24 2021	June. 23 2022
5	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
7	Thermo meter	KTJ	TA328	GTS233	June. 24 2021	June. 23 2022
1 8 1 Absorbing clamp		Elektronik- Feinmechanik	MDS21	GTS229	June. 24 2021	June. 23 2022
9	ISN	SCHWARZBECK	NTFM 8158	GTS565	June. 24 2021	June. 23 2022
10	High voltage probe	SCHWARZBECK	TK9420	GTS537	July. 09 2021	July. 08 2022

RF Conducted 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	June. 24 2021	June. 23 2022	
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 24 2021	June. 23 2022	
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June. 24 2021	June. 23 2022	
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	June. 24 2021	June. 23 2022	
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	June. 24 2021	June. 23 2022	
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	June. 24 2021	June. 23 2022	
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	June. 24 2021	June. 23 2022	
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	June. 24 2021	June. 23 2022	

General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	June. 24 2021	June. 23 2022
2	Barometer	ChangChun	DYM3	GTS255	June. 24 2021	June. 23 2022



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 integral antenna, the best case gain of the is 1.8dBi, reference to the appendix II for details



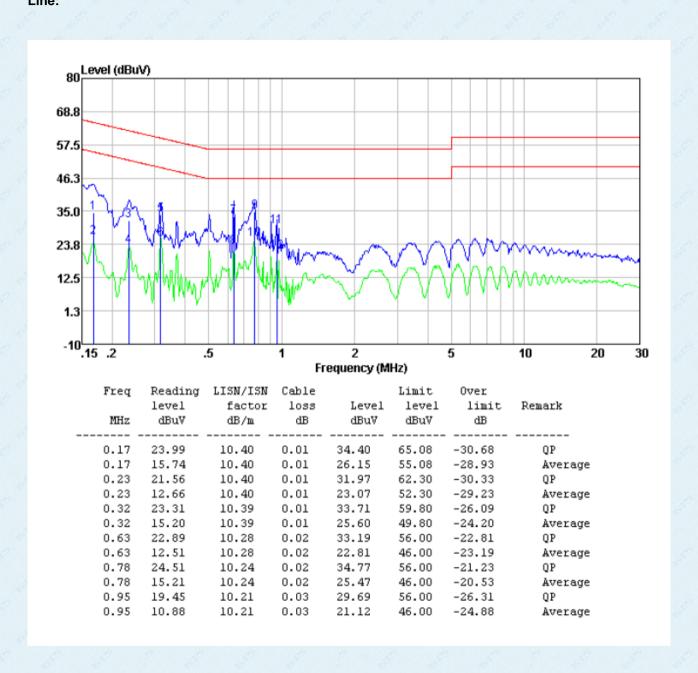
7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.20	7	
Test Method:	ANSI C63.10:2013		8 8 8
Test Frequency Range:	150KHz to 30MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9KHz, VBW=30KHz, S	Sweep time=auto	
Limit:	Fraguenou rango (MUZ)	Limit	(dBuV)
	Frequency range (MHz)	Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	* Degraces with the legarith	60	50
Test setup:	* Decreases with the logarith	300	
Test procedure:	AUX Equipment 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 line impedance stabilizatio 500hm/50uH coupling imp	EMI Receiver are connected to the on network (L.I.S.N.).	main power through a This provides a
	 The peripheral devices are LISN that provides a 50oh termination. (Please refer photographs). Both sides of A.C. line are interference. In order to fir positions of equipment and according to ANSI C63.10 	m/50uH coupling imports to the block diagram of the checked for maximum and the maximum emised all of the interface co	edance with 50ohm of the test setup and m conducted sion, the relative ables must be changed
Test Instruments:	Refer to section 6.0 for detail	24	2 2 2
Test mode:	Refer to section 5.2 for detail		
Test environment:		mid.: 52%	Press.: 1012mbar
Test voltage:	AC 120V, 60Hz		
Test results:	Pass		
า ฮอเ าฮอนห้อ.	1 000		

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

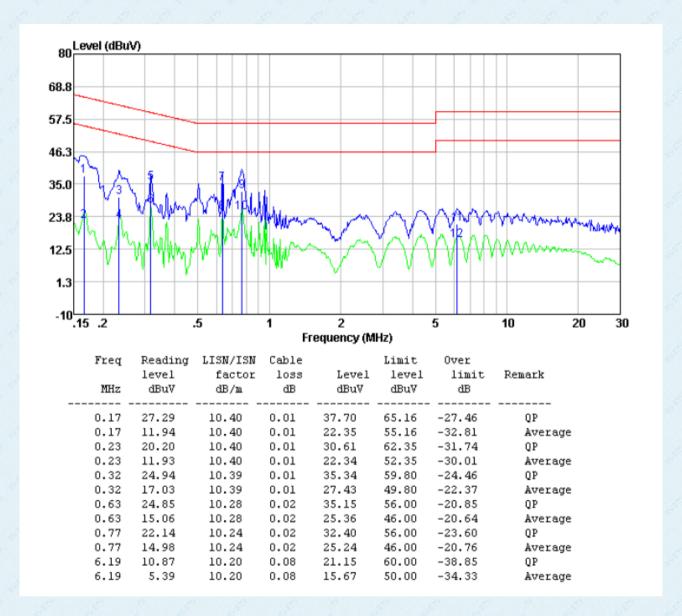


Measurement data: Line:





Neutral:

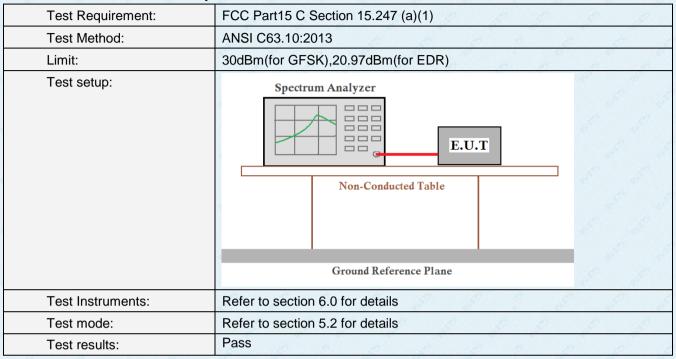


Notes:

- 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



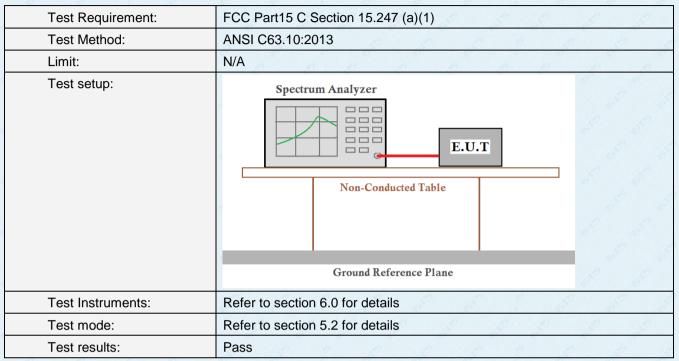
7.3 Conducted Peak Output Power



Measurement Data: The detailed test data see Appendix for BT EDR.



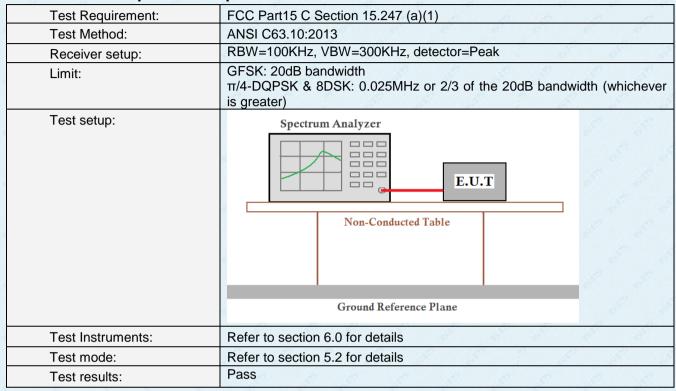
7.4 20dB Emission Bandwidth



Measurement Data: The detailed test data see Appendix for BT EDR.



7.5 Carrier Frequencies Separation



Measurement Data: The detailed test data see Appendix for BT EDR.



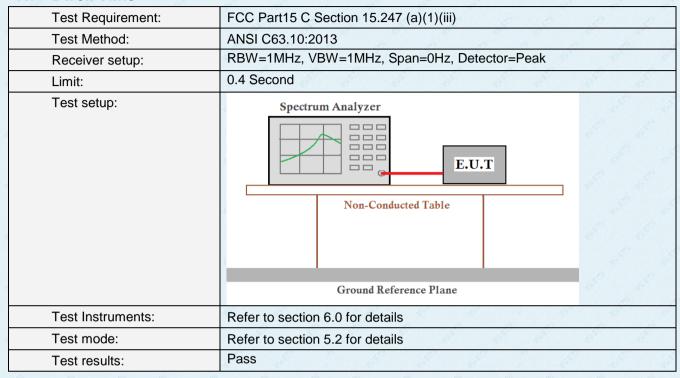
7.6 Hopping Channel Number

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)(iii)			
Test Method:	ANSI C63.10:2013			
Receiver setup:	RBW=100kHz, VBW=300kHz, Frequency range=2400MHz-2483.5MHz, Detector=Peak			
Limit:	15 channels			
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 BT EDR.



7.7 Dwell Time



Measurement Data: The detailed test data see Appendix for BT EDR.



7.8 Spurious Emission in Non-restricted & restricted Bands

7.8.1 Conducted Emission Method

	500 D 45 0 0 0 0 45 0 45 0 45 0 45 0 45				
Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	ANSI C63.10:2013 RBW=100kHz, VBW=300kHz, Detector=Peak 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.				
Receiver setup:					
Limit:					
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 BT.



7.8.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section	on 15.	.209	19		e go		9 9
Test Method:	ANSI C63.10:2013		9 69	1	2	9	, is	0
Test Frequency Range:	9kHz to 25GHz	40	. An	60	1		40	6 6
Test site:	Measurement Distar	nce: 3	m	60		400		
Receiver setup:	Frequency	D	etector	RBV	٧	VBW	0	Value
	9KHz-150KHz	Qua	asi-peak	200H	łz	600Hz	z	Quasi-peak
	150KHz-30MHz	Qua	asi-peak	9KH	z	30KH:	z	Quasi-peak
	30MHz-1GHz	Qua	asi-peak	120K	Hz	300KH	łz	Quasi-peak
	Above 4CUs		Peak	1MH	lz	3MHz	Z	Peak
	Above 1GHz	40	Peak	1MH	lz	10Hz	43	Average
Limit:	Frequency		Limit (u\	//m)	V	alue	N	Measurement Distance
	0.009MHz-0.490M	lHz	2400/F(k	(Hz)	e d	QP		300m
	0.490MHz-1.705M	lHz	24000/F(KHz)	, "	QP	2	30m
	1.705MHz-30MH	lz	30	6		QP	8	30m
	30MHz-88MHz	\$	100	100	6	QP		A 4
	88MHz-216MHz	2	150	6		QP	S. Carrie	
	216MHz-960MH	z	200	50		QP 🧷		3m
	960MHz-1GHz		500		9	QP	a se	SIII
	Above 1GHz	Ø .	500	, de X	Av	erage	97	
	Above IGHZ		5000)	P	eak	1	6' 6'
Test setup:	For radiated emiss	sions	from 9kH	z to 30	МН	z		
	< 80cm >		< 3m > Test Ar n Table	atenna O	******	***********		
	Ī	III III III III III III III III III II		Receiver-	Н			
	2							



Report No.: GTS202108000021F01 For radiated emissions from 30MHz to1GHz 4m EUT. Tum Table Receiver Preamplifier. For radiated emissions above 1GHz Test Antenna-< 1m ... 4m > EUT. Turn 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 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

Global United Technology Services Co., Ltd.

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

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



	6 6			Report No.	: GTS202108	000021F01
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar
Test voltage:	DC 3.7V		8 8			S. S.
Test results:	Pass	10 10	9	10 - 10		9 9

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

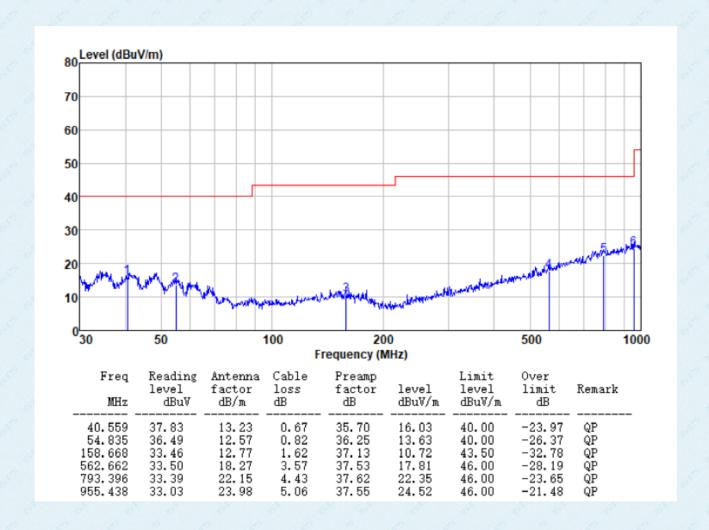
The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.



■ Below 1GHz

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

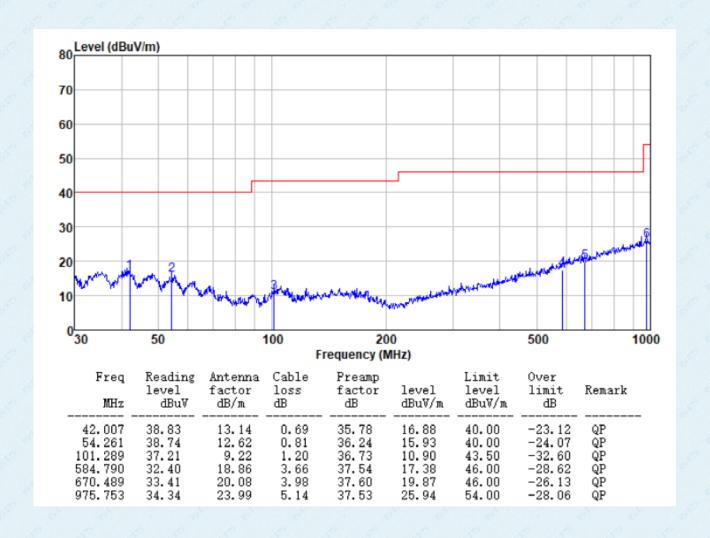
Horizontal:





Vertical:

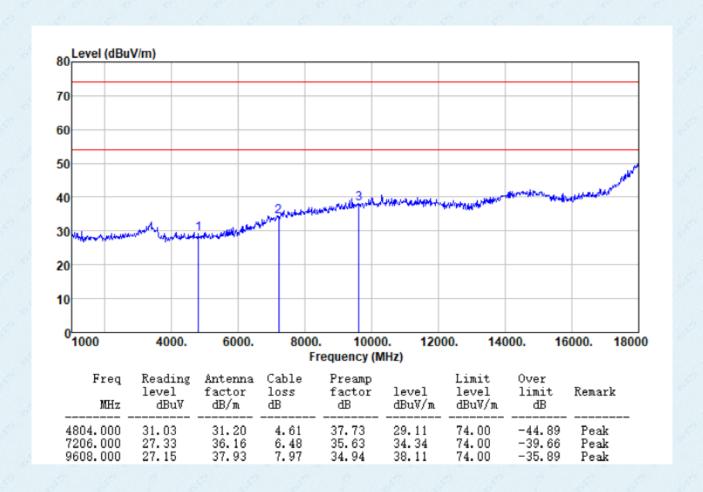
Report No.: GTS202108000021F01





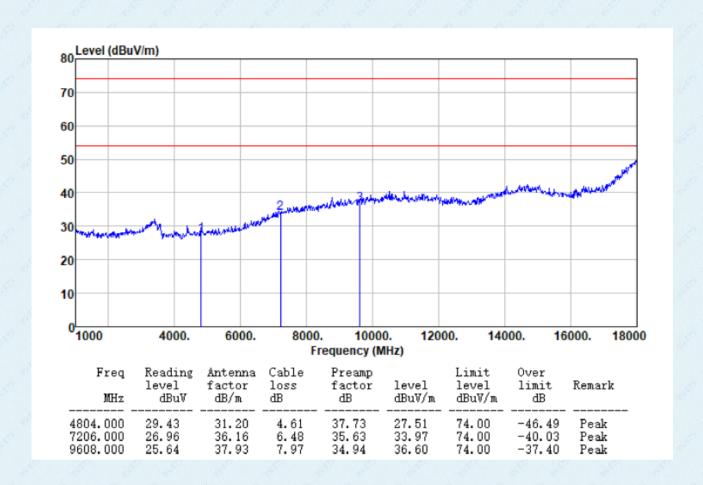
- Above 1GHz
- Unwanted Emissions in Restricted Frequency Bands

Test channel:	Lowest	Polarization:	Horizontal	
10010114111011	2011001	i olarization.		



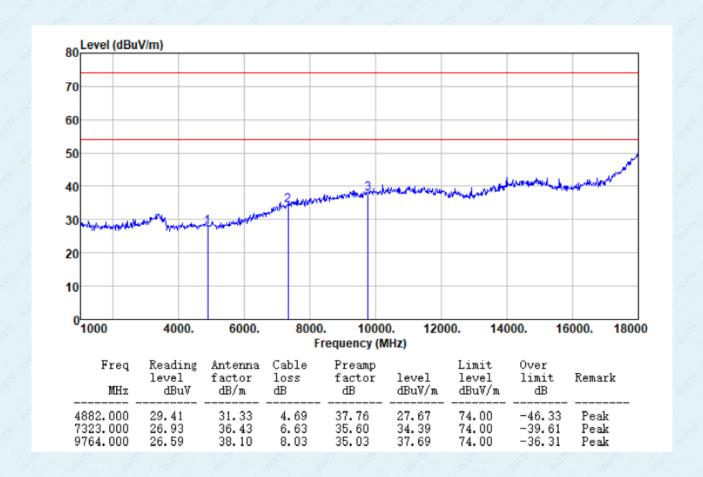


Test channel:	Lowest	Polarization:	Vertical	
10010114111011	2011001	i olarization.		



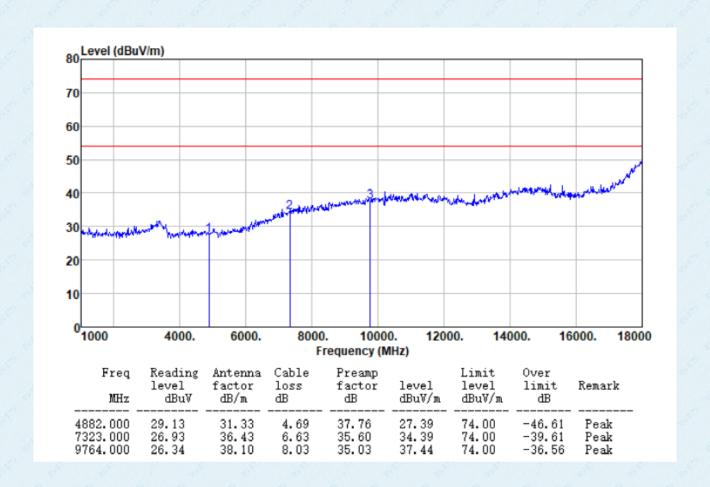


Test channel: Middle Polarization: Horizontal	zontal
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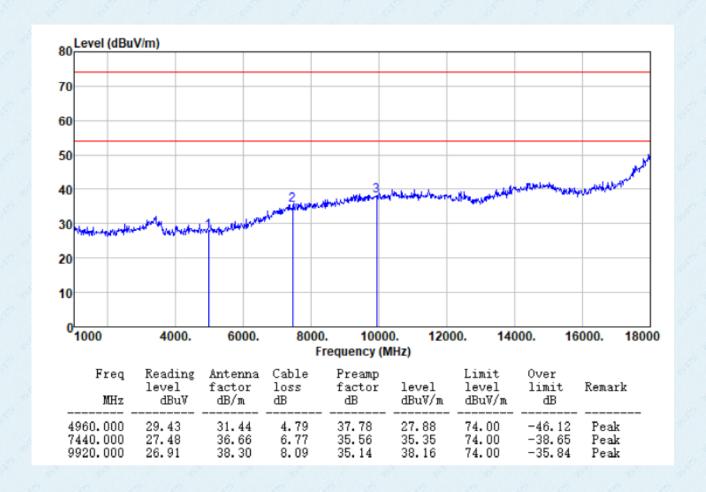




	Ī	Test channel:	Middle	Polarization:	Vertical
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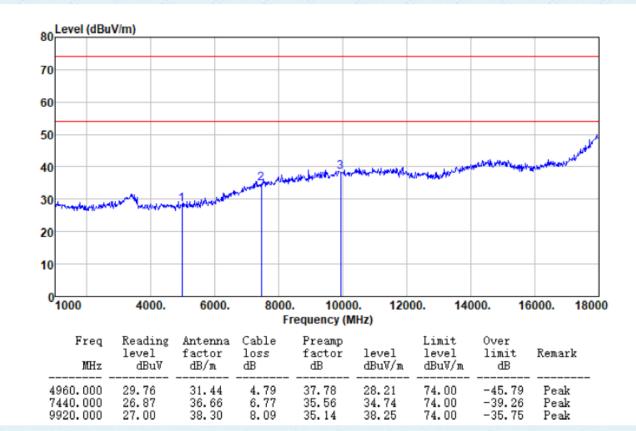








Test channel:	Highest	Polarization:	Vertical
10010114111011	1 11911001	1 Glanzadorn	



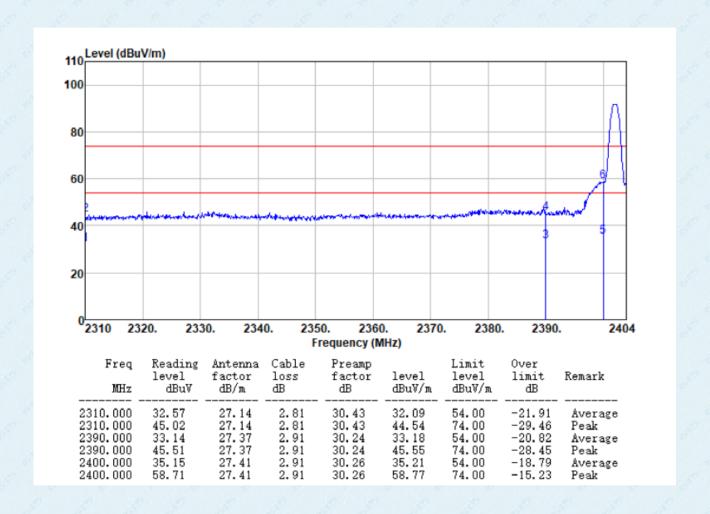
Remarks:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of frequencies range from 18GHz-25GHz are very lower than the limit and not show in test report.



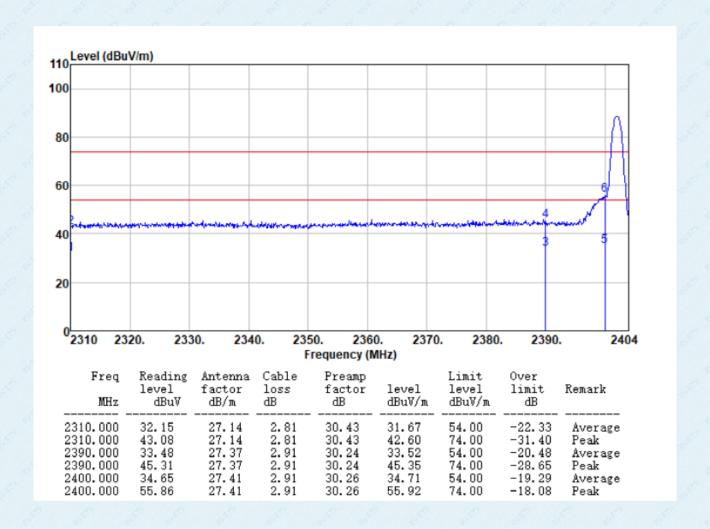
Unwanted Emissions in Non-restricted Frequency Bands

1	Test channel:	Lowest	Polarization:	Horizontal	
	10010114111011	2011001	i olarization.		



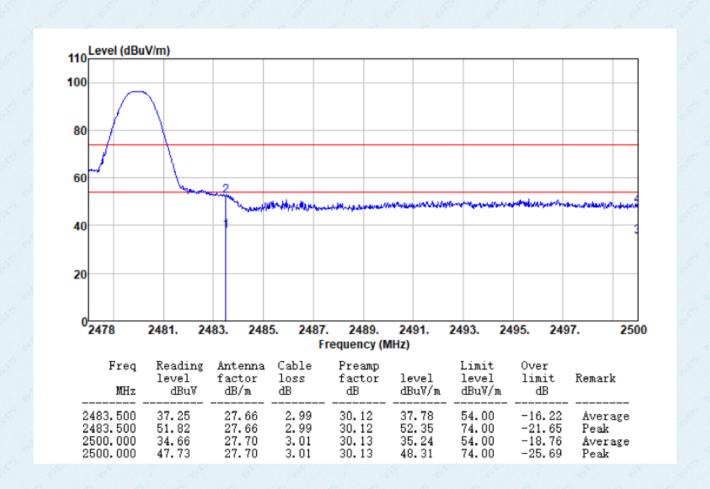


Test channel:	Lowest	Polarization:	Vertical	
10010114111011	2011001	i olarization.		



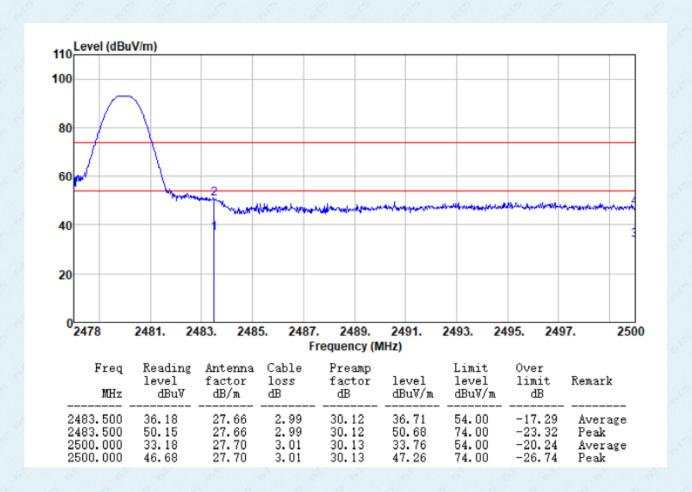


Test channel:	Highest	Polarization:	Horizontal	





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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