

# **TEST REPORT**

Applicant:	SHENZHEN GIEC DIGITAL CO., LTD
Address of Applicant:	1st&3rd Building, No.26 Puzai Road, Pingdi, Longgang District, Shenzhen, China
Manufacturer/Factory :	SHENZHEN GIEC DIGITAL CO., LTD
Address of Manufacturer/Factory : Equipment Under Test (El	1st&3rd Building, No.26 Puzai Road, Pingdi, Longgang District, Shenzhen, China JT)
Product Name:	Bluetooth headset
Model No.:	GIEC Y1015
FCC ID:	2AHYK-GIECY1015
Applicable standards: Date of sample receipt:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 November 30, 2020
Date of Test:	December 01-11, 2020
Date of report issued:	December 11, 2020
Test Result :	PASS *

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

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.



## 2 Version

Version No.	Date	Description
00	December 11, 2020	Original

December 11, 2020 Prepared By: Date: -1~ Pr Project Engineer \*500 Lund December 11, 2020 Check By: Date:

Reviewer



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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**

Test Item	Frequency Range	Measurement Uncertainty	Notes	
Radiated Emission	30MHz-200MHz 3.8039dB		(1)	
Radiated Emission	200MHz-1GHz	3.9679dB	(1)	
Radiated Emission	1GHz-18GHz	4.29dB	(1)	
Radiated Emission	18GHz-40GHz 3.30dB		(1)	
AC Power Line Conducted Emission	0 15MHz ~ 30MHz 3 44dB			
Note (1): The measurement unce	ertainty is for coverage factor of k	=2 and a level of confidence of 9	95%.	



# 5 General Information

### 5.1 General Description of EUT

•	
Product Name:	Bluetooth headset
Model No.:	GIEC Y1015
Test sample(s) ID:	GTS202011000345-1
Sample(s) Status:	Engineer sample
Serial No.:	TWSY1015000001
Hardware Version:	S9_V1.0
Software Version:	S9_GIEC_Y1015_20191101
Operation Frequency:	2402MHz~2480MHz
Channel numbers:	79
Channel separation:	1MHz
Modulation type:	GFSK, π/4-DQPSK, 8-DPSK
Antenna Type:	Integral Antenna
Antenna gain:	0dBi(declare by applicant)
Power supply:	Charge box: Battery DC 3.7V, 2000mAh, 7.4Wh
	Earphone: Battery DC 3.7V, 0.19Wh

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

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### 5.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode.
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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. New battery is used during all test.

### 5.3 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

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. Registration 381383.

#### • IC — Registration No.: 9079A

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 with Registration No.: 9079A

#### • NVLAP (LAB CODE:600179-0)

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). LAB CODE:600179-0

### 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 command provided by manufacturer
Power level setup	Default

# 6 Test Instruments list

Rad	Radiated Emission:								
ltem	n 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	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. 25 2020	June. 24 2021			
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 25 2020	June. 24 2021			
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 25 2020	June. 24 2021			
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 25 2020	June. 24 2021			
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A			
8	Coaxial Cable	GTS	N/A	GTS213	June. 25 2020	June. 24 2021			
9	Coaxial Cable	GTS	N/A	GTS211	June. 25 2020	June. 24 2021			
10	Coaxial cable	GTS	N/A	GTS210	June. 25 2020	June. 24 2021			
11	Coaxial Cable	GTS	N/A	GTS212	June. 25 2020	June. 24 2021			
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 25 2020	June. 24 2021			
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 25 2020	June. 24 2021			
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 25 2020	June. 24 2021			
15	Band filter	Amindeon	82346	GTS219	June. 25 2020	June. 24 2021			
16	Power Meter	Anritsu	ML2495A	GTS540	June. 25 2020	June. 24 2021			
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 25 2020	June. 24 2021			
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 25 2020	June. 24 2021			
19	Splitter	Agilent	11636B	GTS237	June. 25 2020	June. 24 2021			
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 25 2020	June. 24 2021			
21	Breitband hornantenne	SCHWARZBECK	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. 25 2020	June. 24 2021			



Con	Conducted Emission								
ltem	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. 25 2020	June. 24 2021			
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 25 2020	June. 24 2021			
4	ENV216 2-L-V- NETZNACHB.DE	ROHDE&SCHWARZ	ENV216	GTS226	June. 25 2020	June. 24 2021			
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. 25 2020	June. 24 2021			
8	Absorbing clamp	Elektronik- Feinmechanik	MDS21	GTS229	June. 25 2020	June. 24 2021			
9	ISN	SCHWARZBECK	NTFM 8158	GTD565	June. 25 2020	June. 24 2021			

RF C	RF Conducted Test:								
ltem	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. 25 2020	June. 24 2021			
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 25 2020	June. 24 2021			
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June. 25 2020	June. 24 2021			
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	June. 25 2020	June. 24 2021			
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	June. 25 2020	June. 24 2021			
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	June. 25 2020	June. 24 2021			
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	June. 25 2020	June. 24 2021			
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	June. 25 2020	June. 24 2021			

General used equipment:								
ltem	Test Equipment	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)				
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	June. 25 2020	June. 24 2021		
2	Barometer	ChangChun	DYM3	GTS255	June. 25 2020	June. 24 2021		

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# 7 Test results and Measurement Data

# 7.1 Antenna requirement

Standard requirement:	dard requirement: FCC Part15 C Section 15.203 /247(c)							
15.203 requirement:	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 a antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the ur that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electron connector is prohibited.								
15.247(c) (1)(i) requiremen	t:							
(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-per- 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 to directional gain of the antenna exceeds 6dBi.								
E.U.T Antenna:								
The antenna is integral ante details	enna, the best case gain of the is 0dBi, reference to the appendix II for							



	•							
Test Requirement:	FCC Part1	5 C Section 1	5.207					
Test Method:	ANSI C63.10:2013							
Test Frequency Range:	150KHz to 30MHz Class B							
 Class / Severity:								
 Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto							
Limit:				Limi	t (dBuV)			
	Frequency range (MHz)		lz) G	uasi-peak		erage		
		0.15-0.5		66 to 56*	56 1	io 46*		
		0.5-5		56		46		
		5-30		60		50		
	* Decrease	es with the loga	arithm of the	e frequency.				
Test setup:		Reference	Plane					
Test procedure:	LISN 40cm 80cm Filter AC power   Full E.U.T Filter AC power   Equipment E.U.T EMI   Test table/Insulation plane EMI   Remark: E.U.T E.U.T   LISN: Line Impedence Stabilization Network Test table height=0.8m							
	line imp 50ohm/s 2. The per LISN that terminat photogra 3. Both sid interfere position	I.T and simula edance stabili 50uH coupling ipheral device at provides a 5 tion. (Please re aphs). les of A.C. line ence. In order s of equipmen ng to ANSI C6	zation netwo impedance s are also c 500hm/50uH efer to the b e are checke to find the m t and all of t	ork (L.I.S.N.). for the meas onnected to the coupling imp lock diagram ed for maximum aximum emis he interface c	This provide uring equipm ne main pow bedance with of the test so im conducted ssion, the rel cables must	s a nent. er through a 50ohm etup and d ative pe changed		
Test Instruments:	Refer to se	ection 6.0 for d	etails					
Test mode:	Refer to section 5.2 for details							
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar		
Test voltage:	AC 120V, 6		L	1	1	1		
Test results:	Pass							

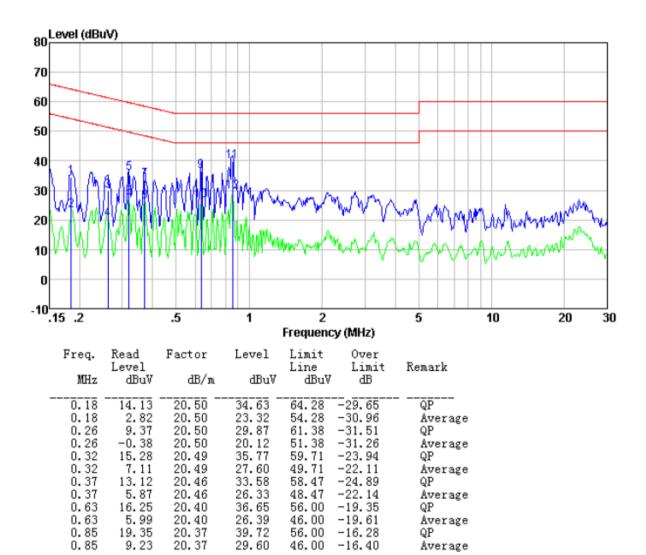
### 7.2 Conducted Emissions

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



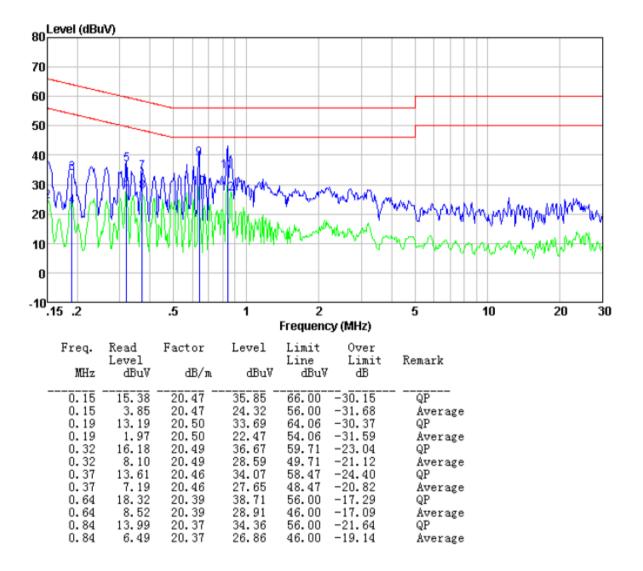
#### Measurement data:

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



Test Requirement:	FCC Part15 C Section 15.247 (a)(1)					
Test Method:	ANSI C63.10:2013					
Limit:	30dBm(for GFSK),20.97dBm(for EDR)					
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					

### 7.3 Conducted Peak Output Power



Test Requirement:	FCC Part15 C Section 15.247 (a)(1)				
Test Method:	ANSI C63.10:2013				
Limit:	N/A				
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				

### 7.4 20dB Emission Bandwidth

•	•					
Test Requirement:	FCC Part15 C Section 15.247 (a)(1)					
Test Method:	ANSI C63.10:2013					
Receiver setup:	RBW=100KHz, VBW=300KHz, detector=Peak					
Limit:	GFSK: 20dB bandwidth $\pi$ /4-DQPSK & 8DSK: 0.025MHz or 2/3 of the 20dB bandwidth (whichever is greater)					
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					

### 7.5 Carrier Frequencies Separation



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

### 7.6 Hopping Channel Number



### 7.7 Dwell Time

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)(iii)					
Test Method:	ANSI C63.10:2013					
Receiver setup:	RBW=1MHz, VBW=1MHz, Span=0Hz, Detector=Peak					
Limit:	0.4 Second					
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					



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

### 7.8.1 Conducted Emission Method

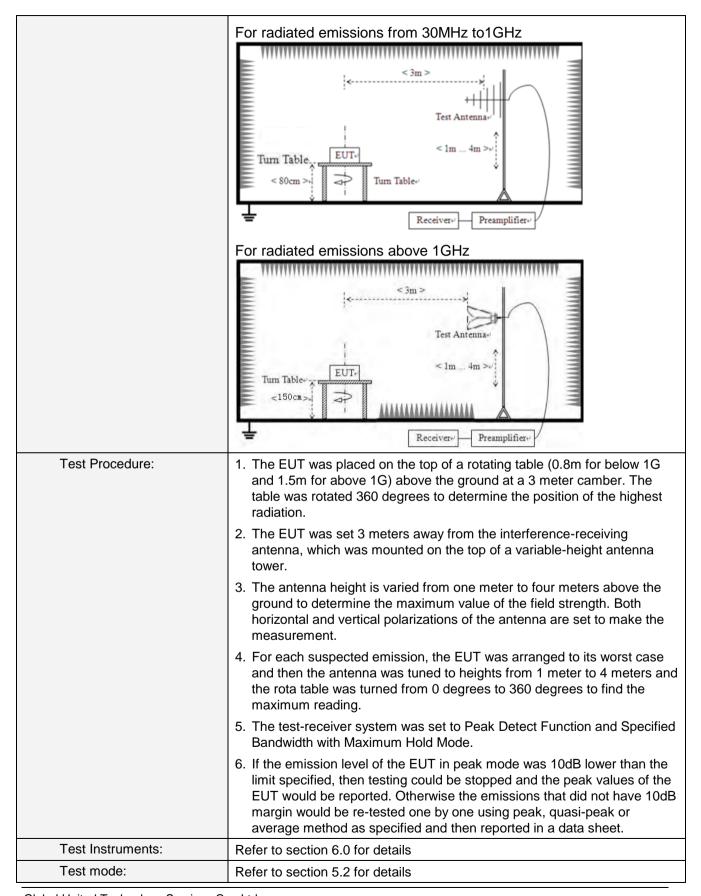
Test Requirement:	FCC Part15 C Section 15.247 (d)					
Test Method:	ANSI C63.10:2013					
Receiver setup:	RBW=100kHz, VBW=300kHz, Detector=Peak					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.					
Test setup:	Spectrum Analyzer 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					



7.8.2	Radiated	Emission	Method
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Test Requirement:	FCC Part15 C Section 15.209								
Test Method:	ANSI C63.10:2013								
Test Frequency Range:	9kHz to 25GHz								
Test site:	Measurement Distance: 3m								
Receiver setup:	Frequency [		Detector	RBW		VBW	'	Value	
	9KHz-150KHz	Qu	uasi-peak	200	Hz	600H	z	Quasi-peak	
	150KHz-30MHz	Qı	uasi-peak	9KH	Ηz	30KH	z	Quasi-peak	
	30MHz-1GHz	Qı	lasi-peak	120K	Hz	300KH	lz	Quasi-peak	
	Above 1GHz		Peak	1MH	Ηz	3MHz	z	Peak	
	Above IGHZ		Peak	1MH	Ηz	10Hz	2	Average	
Limit:	Frequency		Limit (u∖	//m)	V	'alue	Ν	leasurement 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	2	150			QP		3m	
	216MHz-960MH	Z	200			QP			
	960MHz-1GHz		500			QP		om	
	Above 1GHz		500		Average				
			5000	)	F	Peak			
Test setup:	For radiated emiss	sions	from 9kH	z to 30	ЭМН	Z			
	Tum Table	and the second s	< 3m > Test A um Table-'	ntenna lm Receiver	)				







Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar
Test voltage:	DC 3.7V					
Test results:	Pass					

#### Measurement data:

Remarks:

- 1. During the test, pre-scan the GFSK,  $\pi/4$ -DQPSK, 8-DPSK modulation, and found the 8-DPSK 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.

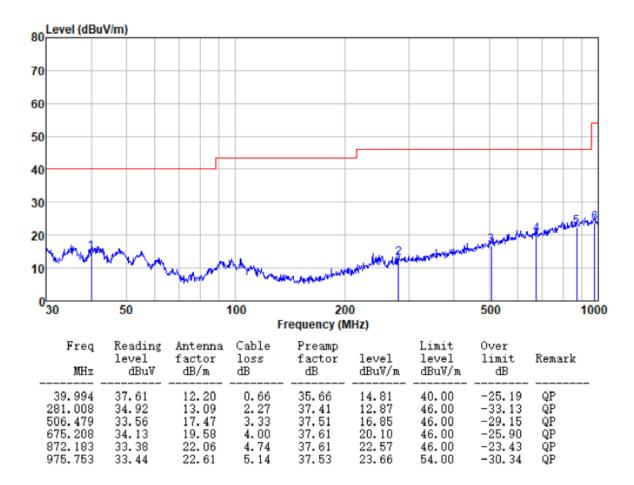
#### ■ 9kHz~30MHz

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 8-DPSK, and so only show the test result of it

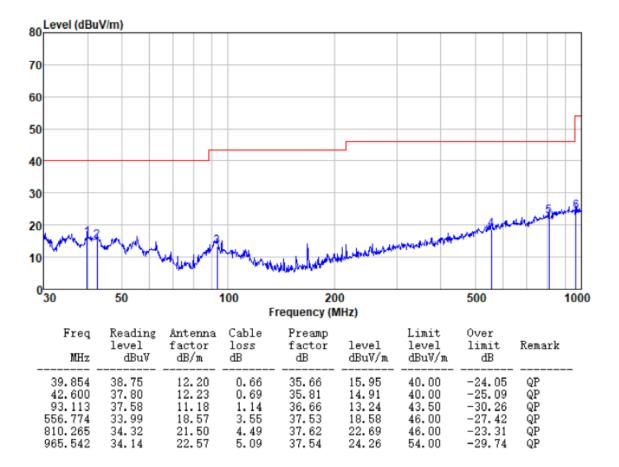
### Horizontal:





Report No.: GTS202011000345F01

### Vertical:



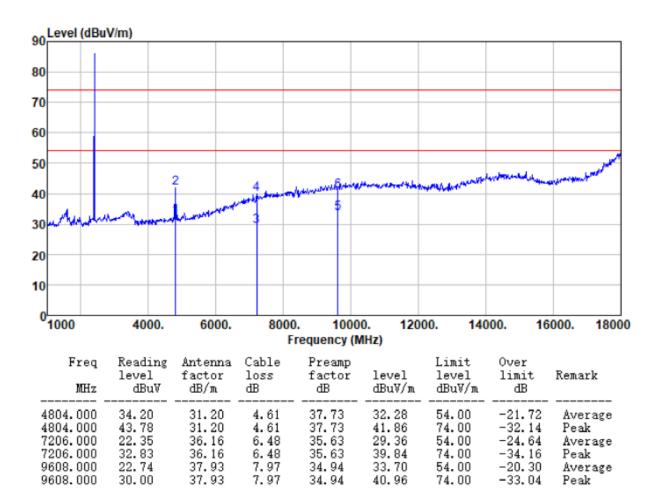


Above 1GHz

#### Unwanted Emissions in Restricted Frequency Bands

Test channel: Lowest channel
------------------------------

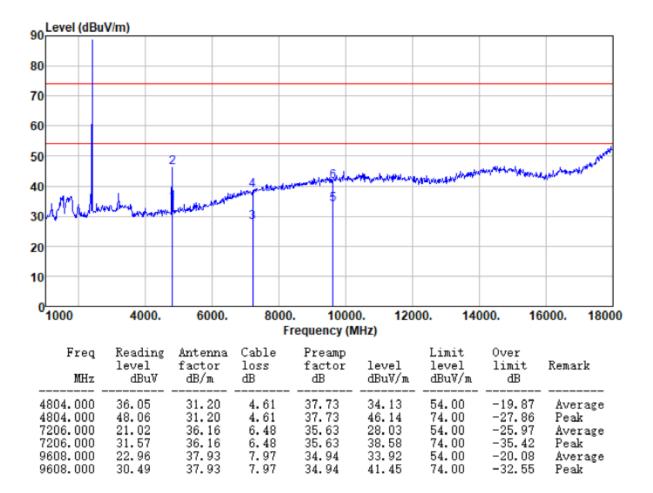
Horizontal:



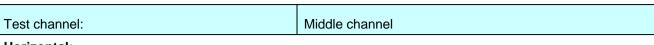


Report No.: GTS202011000345F01

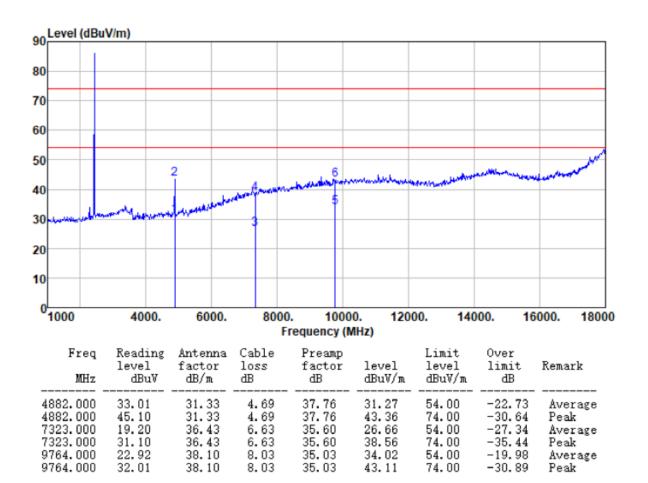
### Vertical:







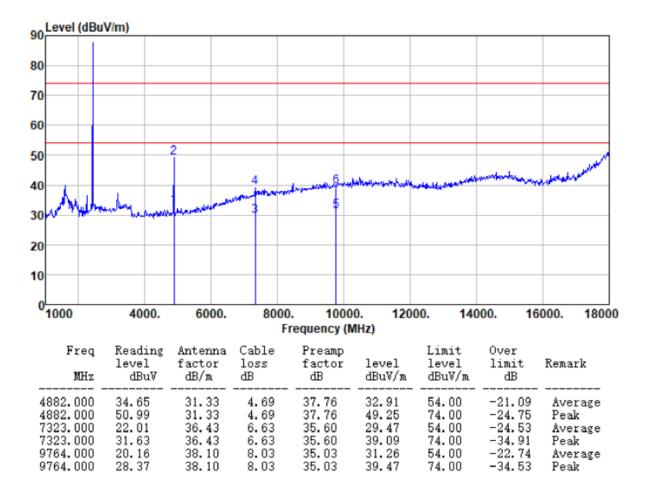
Horizontal:





Report No.: GTS202011000345F01

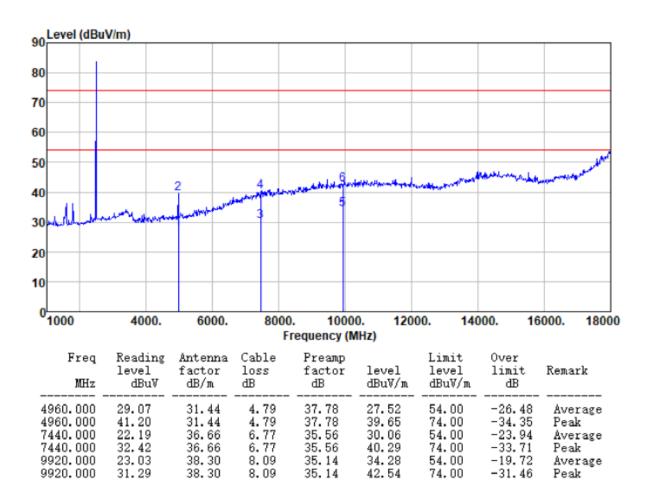
### Vertical:





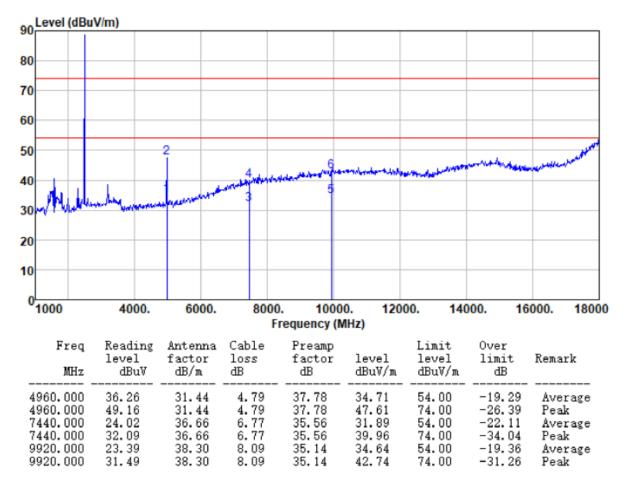
Test channel: Highest channel	Herizoutel	
	Test channel:	Highest channel

Horizontal:





### Vertical:



Remarks:

1. Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

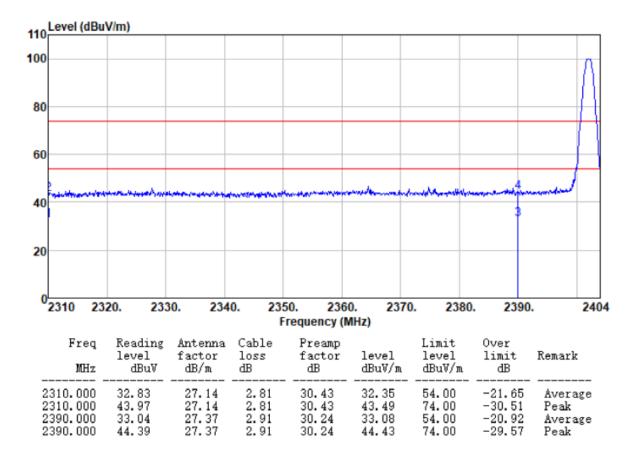
2. The emission levels of other frequencies are very lower than the limit and not show in test report.



### Unwanted Emissions in Non-restricted Frequency Bands

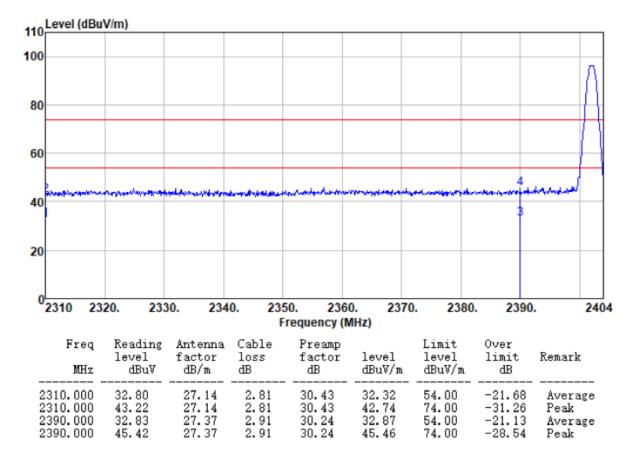
Test channel:	Lowest channel

Horizontal:

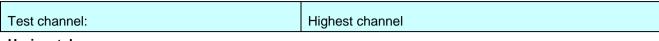




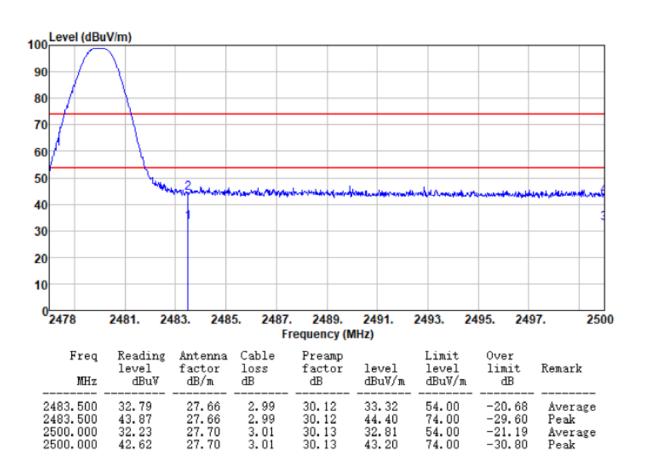
### Vertical:







### Horizontal:





### Vertical:

100 Level (dBuV/m) 90 80 70 60 50 2 which is the start of the 40 30 20 10 0 2478 2481. 2483. 2485. 2487. 2489. 2491. 2493. 2495. 2497. 2500 Frequency (MHz) Cable Freq Reading Antenna Preamp Limit 0ver level factor loss factor level level limit Remark MHz dBu∛ dB/m dB dB dBu∛/m dBu∛/m dB 2.99 27.66 -20.732483.500 32.74 30.12 33.27 54.00 Average 2.99 3.01 3.01 27.66 27.70 27.70 2483.500 2500.000 30.12 30.13 -29.90 -21.21 43.57 44.10 74.00 Peak 32.79 32.21 54.00 Average 2500.000 30.13 43.73 74.00 -30.27Peak 43.15

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.



# 3.

# 8 Test Setup Photo

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

# 9 EUT Constructional Details

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

-----End-----