

## Global United Technology Services Co., Ltd.

Report No.: GTS202111000053F01

# **TEST REPORT**

Applicant: ShenZhen FLYSKY Technology Co.,Ltd

Address of Applicant: 16F, Huafeng Building, No. 6006 Shennan Road, Futian

District, Shenzhen, Guangdong, China

Manufacturer: ShenZhen FLYSKY Technology Co.,Ltd

Address of 16F, Huafeng Building, No. 6006 Shennan Road, Futian

Manufacturer: District, Shenzhen, Guangdong, China

Factory: Dongguan Flysky RC Model technology Co.,Ltd

Address of Factory: West building 3, Huangjinyuan Ind Park, Qiaoli North Gate,

Changping Town, Dongguan, China

**Equipment Under Test (EUT)** 

Product Name: 8-CHANNEL RECEIVER

Model No.: FS-SR8

Trade Mark: FLYSKY

FCC ID: 2A2UNSR800

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

Date of sample receipt: November 04, 2021

Date of Test: November 05-15, 2021

Date of report issued: November 16, 2021

Test Result: PASS \*

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

Authorized Signature:

Robinson Luo Laboratory Manager

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## 2 Version

Version No.	Date	Description
00	November 16, 2021	Original
		2226222562
17711111		

Prepared By:	Joseph Cu	Date:	November 16, 2021
	Project Engineer		
Check By:	John song lust	Date:	November 16, 2021
	Reviewer		



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## 4 Test Summary

Test Item	Section	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

Pass: The EUT complies with the essential requirements in the standard.

Remark: Test according to ANSI C63.10:2013.

## 4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz-30MHz	3.1dB	(1)
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	(1)
Note (1): The measurement uncert	ainty is for coverage factor o	f k=2 and a level of confidence of 9	95%.



## 5 General Information

## 5.1 General Description of EUT

Product Name:	8-CHANNEL RECEIVER
Model No.:	FS-SR8
Serial No.:	N/A
Hardware version:	FS-SR8-V1.1
Software version:	FS-SR8 1.0.3
Test sample(s) ID:	GTS202111000053-1
Sample(s) Status	Engineer sample
Operation Frequency:	2406MHz~2472MHz
Channel numbers:	133
Modulation method:	FHSS
Modulation technology:	GMSK
Antenna Type:	ANT 1&2: Integral Antenna
Antenna gain:	ANT 1&2: 0.5dBi
Power supply:	DC 3.5~9V

Remark: The system works in the frequency range of 2406MHz to 2472MHz. This band has been divided to 133 independent channels. Each radio system uses 20 different channels; the minimum channel separation is ≥3.025MHz. By using various switch-on times, hopping scheme and channel frequencies, the system can guarantee a jamming free radio transmission. The channel list is below.

#### The test frequencies are below:

Channel	Frequency
The lowest channel	2406MHz
The middle channel	2440MHz
The Highest channel	2472MHz



A Later of	Frequency eac		Frequency		Frequency	12 1 1	Frequency
Channel	(MHz)	Channel	(MHz)	Channel	(MHz)	Channel	(MHz)
1	2406	36	2423.5	71	2441	106	2458.5
2	2406.5	37	2424	72	2441.5	107	2459
3	2407	38	2424.5	73	2442	108	2459.5
4	2407.5	39	2425	74	2442.5	109	2460
5	2408	40	2425.5	75	2443	110	2460.5
6	2408.5	41	2426	76	2443.5	111	2461
7	2409	42	2426.5	77	2444	112	2461.5
8	2409.5	43	2427	78	2444.5	113	2462
9	2410	44	2427.5	79	2445	114	2462.5
10	2410.5	45	2428	80	2445.5	115	2463
11	2411	46	2428.5	81	2446	116	2463.5
12	2411.5	47	2429	82	2446.5	117	2464
13	2412	48	2429.5	83	2447	118	2464.5
14	2412.5	49	2430	84	2447.5	119	2465
15	2413	50	2430.5	85	2448	120	2465.5
16	2413.5	51	2431	86	2448.5	121	2466
17	2414	52	2431.5	87	2449	122	2466.5
18	2414.5	53	2432	88	2449.5	123	2467
19	2415	54	2432.5	89	2450	124	2467.5
20	2415.5	55	2433	90	2450.5	125	2468
21	2416	56	2433.5	91	2451	126	2468.5
22	2416.5	57	2434	92	2451.5	127	2469
23	2417	58	2434.5	93	2452	128	2469.5
24	2417.5	59	2435	94	2452.5	129	2470
25	2418	60	2435.5	95	2453	130	2470.5
26	2418.5	61	2436	96	2453.5	131	2471
27	2419	62	2436.5	97	2454	132	2471.5
28	2419.5	63	2437	98	2454.5	133	2472
29	2420	64	2437.5	99	2455	1 5 5	
30	2420.5	65	2438	100	2455.5	11/1/	
31	2421	66	2438.5	101	2456		18 18 18
32	2421.5	67	2439	102	2456.5		211
33	2422	68	2439.5	103	2457	1970	1 2 7
34	2422.5	69	2440	104	2457.5		
35	2423	70	2440.5	105	2458	1 1 1	



#### 5.2 Test mode

Transmitting mode Keep the EUT in 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.

#### 5.3 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).

#### 5.4 Test Location

All other 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

#### 5.5 Description of Support Units

Manufacturer	Description	Model	Serial Number
ShenZhen FLYSKY Technology Co.,Ltd	Remote control	FS-ST8	N/A
MEILI	DC POWER SUPPLY	MCH-305A	011121168

#### 5.6 Deviation from Standards

None.

#### 5.7 Abnormalities from Standard Conditions

None.

#### 5.8 Additional Instructions

Software (Used for test) from client

Built-in by manufacturer, power set default.



## 6 Test Instruments list

Radi	iated Emission:				7 7 7 7	
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	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	Breitband hornantenne	SCHWARZBECK	BBHA 9170	GTS579	Oct. 17 2021	Oct. 16 2022
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 17 2021	Oct. 16 2022
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 17 2021	Oct. 16 2022
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 24 2021	June. 23 2022



Con	ducted Emission	1 1 1 1 1	1 5 5 5 5			1 1 1 1
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
8	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:							
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. 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.

#### **EUT Antenna:**

The antenna is integral antenna, the best case gain of the antenna is 0.5dBi, reference to the appendix II for details.



#### 7.2 Conducted Emissions

				2 2 2		
Test Requirement:	FCC Part15 C Section 15.207					
Test Method:	ANSI C63.10:2013			1 1 1 1		
Test Frequency Range:	150KHz to 30MHz		111	f f f		
Class / Severity:	Class B					
Receiver setup:	RBW=9KHz, VBW=30KHz, S	weep time=auto	111			
Limit:		Lim	it (dBuV)	11/1		
	Frequency range (MHz)	Quasi-peak	8 8 8	erage		
	0.15-0.5	66 to 56*	56 t	o 46*		
	0.5-5	56		46		
	5-30	60	Į.	50		
	* Decreases with the logarithr	m of the frequency.				
Test setup:	Reference Plane			1 1 5 2		
	Remark E.U.T  Test table/Insulation plane  Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	Filter — AC  EMI Receiver	power			
Test procedure:	<ol> <li>The E.U.T and simulators a line impedance stabilizatio 50ohm/50uH coupling impedance.</li> <li>The peripheral devices are LISN that provides a 50oh termination. (Please refer the photographs).</li> <li>Both sides of A.C. line are interference. In order to fin positions of equipment and according to ANSI C63.10:</li> </ol>	n network (L.I.S.N.) edance for the mease also connected to the m/50uH coupling important to the block diagrams of the maximum emits all of the interface	This provide suring equipment the main power pedance with of the test so the conducted ssion, the relicables must	es a nent. er through a n 500hm etup and d ative be changed		
Test Instruments:	Refer to section 6.0 for details	8 / / /				
Test mode:	Refer to section 5.2 for details	3	1111			
Test environment:	Temp.: 25 °C Hur	mid.: 52%	Press.:	1012mbar		
Test voltage:	AC 120V, 60Hz	11/1/1	8 8 8	2 2 2		

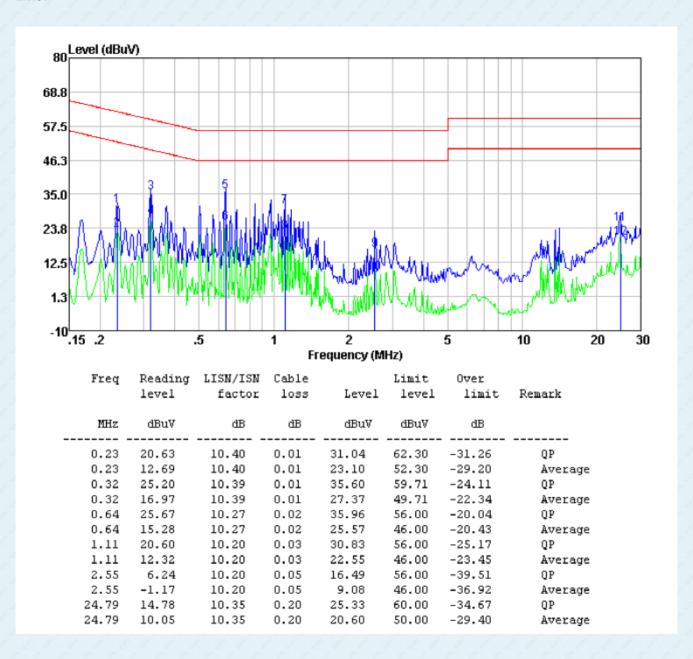
Remark: Both high and low voltages have been tested to show only the worst low voltage test data.

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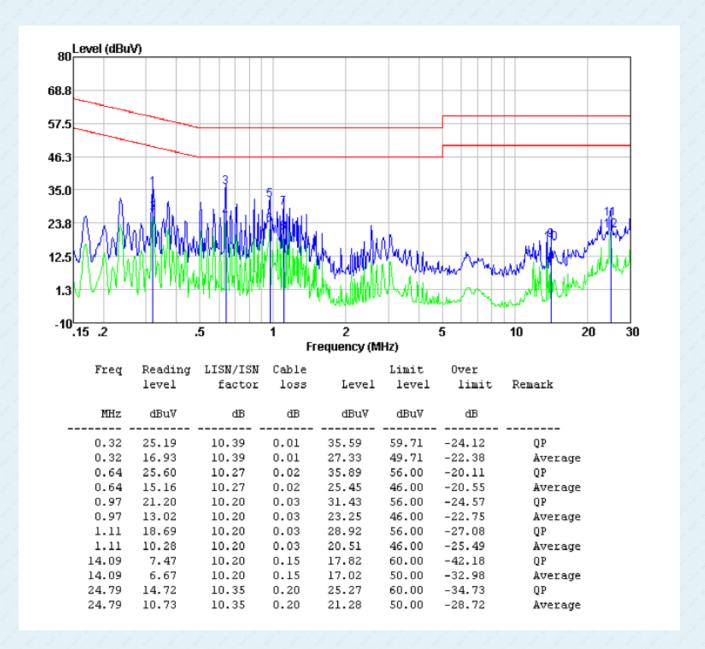
#### Measurement data

Line:





#### Neutral:

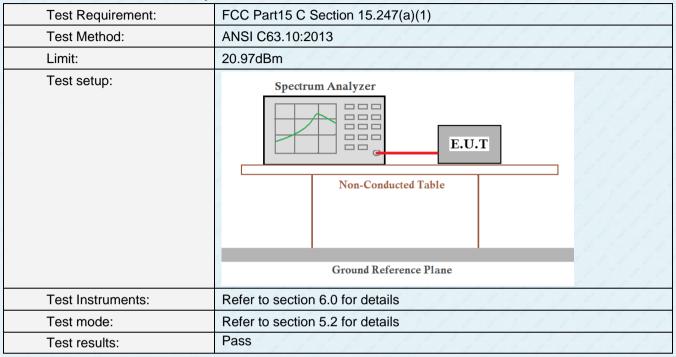


#### Notes:

- 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
- 4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.



## 7.3 Conducted Peak Output Power

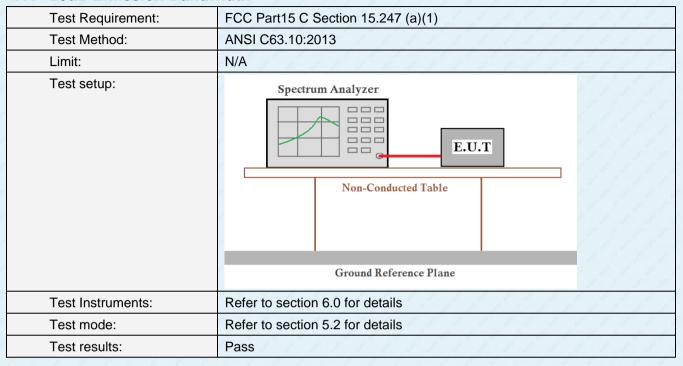


**Measurement Data:** The detailed test data see Appendix for 2.4G.

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#### 7.4 20dB Emission Bandwidth

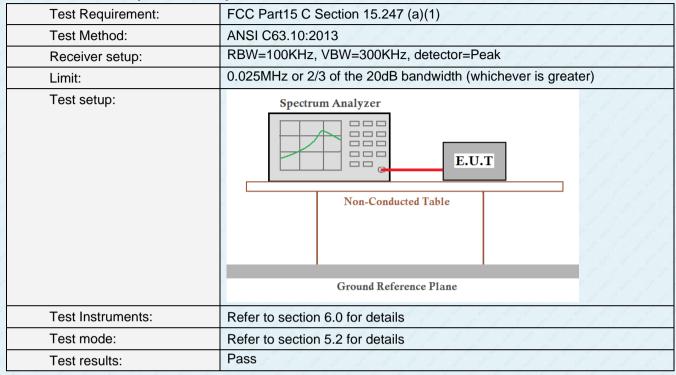


Measurement Data: The detailed test data see Appendix for 2.4G.

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## 7.5 Carrier Frequencies Separation



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

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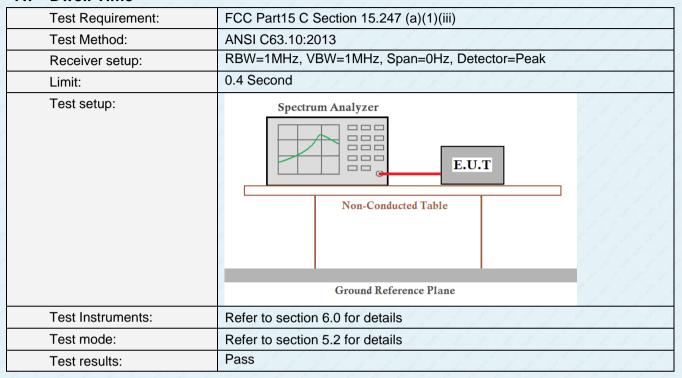
## 7.6 Hopping Channel Number

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 2.4G.



#### 7.7 Dwell Time



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

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## 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 section6.0 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.



#### 7.8.2 Radiated Emission Method

thod						
FCC Part15 C Section	on 15	.209 and 1	5.205		77777	
ANSI C63.10:2013						
9kHz to 25GHz						
Measurement Distar	nce: 3	sm 🥒 🧷	1 1	22.		
Frequency	D	etector	RBW	VBW	Value	
9KHz-150KHz	Qu	asi-peak	200Hz	600H	z Quasi-peak	
150KHz-30MHz	Qu	asi-peak	9KHz	30KH	z Quasi-peak	
30MHz-1GHz	Qu	asi-peak	120KHz	300KH	Iz Quasi-peak	
Above 1GHz	1.	Peak	1MHz	3MHz	z Peak	
Above Total	8	Peak	1MHz	10Hz	z Average	
Frequency		Limit (u\	//m)	Value	Measurement Distance	
0.009MHz-0.490M	lHz	2400/F(K	(Hz)	QP	300m	
0.490MHz-1.705MHz		24000/F(I	KHz)	QP	300m	
1.705MHz-30MHz		30		QP	30m	
30MHz-88MHz		100		QP		
88MHz-216MHz		150	6 8 2	QP	1111111	
216MHz-960MH	Z	200	5 1 1	QP	3m	
960MHz-1GHz		500	2 2	QP		
Above 1GHz		500	P	verage		
	1	5000	11	Peak		
Below 30MHz						
Tum Table EUT < 80cm >  Below 1GHz			ntenna lm Receiver			
	FCC Part15 C Section ANSI C63.10:2013 9kHz to 25GHz Measurement Distar Frequency 9KHz-150KHz 150KHz-30MHz 30MHz-1GHz Above 1GHz Frequency 0.009MHz-0.490M 0.490MHz-1.705M 1.705MHz-30MH 30MHz-88MHz 88MHz-216MHz 216MHz-960MH 960MHz-1GHz Above 1GHz Below 30MHz	FCC Part15 C Section 15 ANSI C63.10:2013 9kHz to 25GHz  Measurement Distance: 3 Frequency D 9KHz-150KHz Qu 150KHz-30MHz Qu 30MHz-1GHz Qu Above 1GHz  Frequency 0.009MHz-0.490MHz 0.490MHz-1.705MHz 1.705MHz-30MHz 30MHz-88MHz 88MHz-216MHz 216MHz-960MHz 960MHz-1GHz Above 1GHz  Below 30MHz	FCC Part15 C Section 15.209 and 1  ANSI C63.10:2013  9kHz to 25GHz  Measurement Distance: 3m  Frequency Detector  9KHz-150KHz Quasi-peak  150KHz-30MHz Quasi-peak  30MHz-1GHz Quasi-peak  Peak  Peak  Peak  Frequency Limit (uv  0.009MHz-0.490MHz 2400/F(k  0.490MHz-1.705MHz 24000/F(k  1.705MHz-30MHz 30  30MHz-88MHz 100  88MHz-216MHz 150  216MHz-960MHz 200  960MHz-1GHz 500  Above 1GHz 5000  Below 30MHz  Below 30MHz	FCC Part15 C Section 15.209 and 15.205  ANSI C63.10:2013  9kHz to 25GHz  Measurement Distance: 3m  Frequency Detector RBW  9KHz-150KHz Quasi-peak 200Hz  150KHz-30MHz Quasi-peak 9KHz  30MHz-1GHz Quasi-peak 120KHz  Above 1GHz Peak 1MHz  Frequency Limit (uV/m)  0.009MHz-0.490MHz 2400/F(KHz)  1.705MHz-30MHz 30  30MHz-88MHz 100  88MHz-216MHz 150  216MHz-960MHz 200  960MHz-1GHz 500  Above 1GHz 500  Below 30MHz  Tum Table 500  Below 30MHz  Tum Table 600 A 5000  Below 30MHz	FCC Part15 C Section 15.209 and 15.205  ANSI C63.10:2013  9kHz to 25GHz  Measurement Distance: 3m  Frequency Detector RBW VBW 9KHz-150KHz Quasi-peak 200Hz 600H 150KHz-30MHz Quasi-peak 9KHz 30KH 30MHz-1GHz Quasi-peak 120KHz 300KH Above 1GHz Peak 1MHz 10Hz  Frequency Limit (uV/m) Value  0.009MHz-0.490MHz 2400/F(KHz) QP 0.490MHz-1.705MHz 24000/F(KHz) QP 1.705MHz-30MHz 30 QP 1.705MHz-30MHz 30 QP 88MHz-216MHz 150 QP 216MHz-960MHz 200 QP 960MHz-1GHz 500 QP Above 1GHz 500 Average 5000 Peak  Below 30MHz	

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Report No.: GTS202111000053F01 Test Antenna EUT Turn Table < 80cm Turn Tables Receiver-Preamplifier. Above 1GHz Test Antenna+ < 1m ... 4m > FUT. Tum Table <150cm> Receiver-Preamplifier+ Test Procedure: The EUT was placed on the top of a rotating table (0.8 meters for below 1GHz and 1.5meters for above 1GHz) 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 5.8 for details Test mode: Refer to section 5.2 for details Temp. / Hum. Temp.: 25 °C Humid .: 52% Press.: 1 012mbar



Ž.	00 1 1 0 0 1 1		Report No.: GTS202111000053F01
	Test results:	Pass	
	Test voltage:	DC9V	

#### Remark:

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

#### Measurement data:

#### ■ Below 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.

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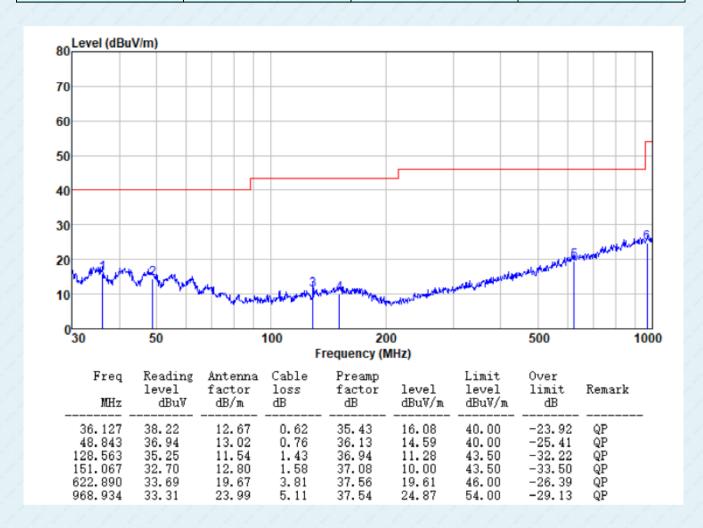
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#### All antennas have test, only the worst case ANT 1 report.

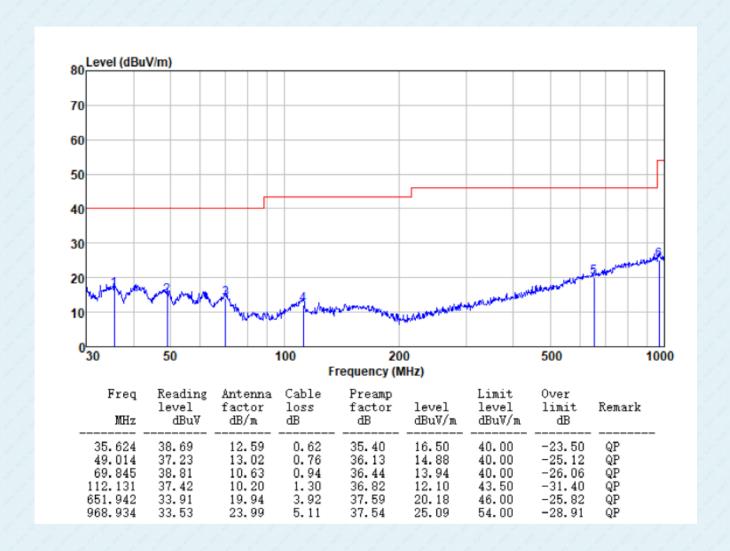
■ 30MHz ~ 1GHz

Test channel:	Lowest	Polarization:	Horizontal
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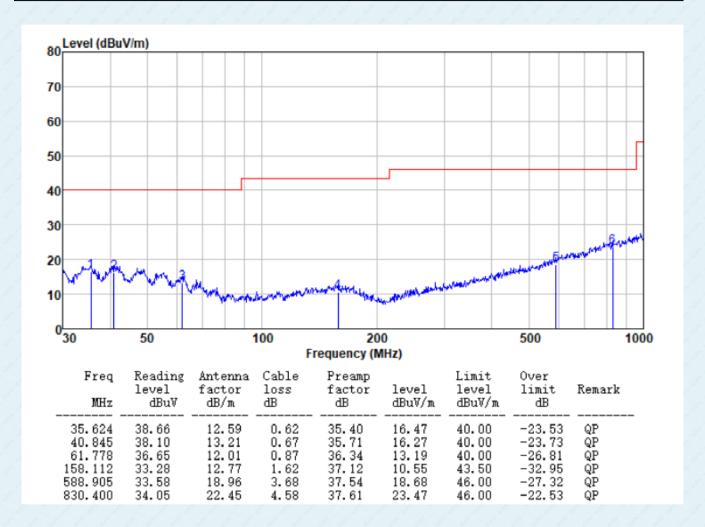


	Test channel:	Lowest	Polarization:	Vertical	
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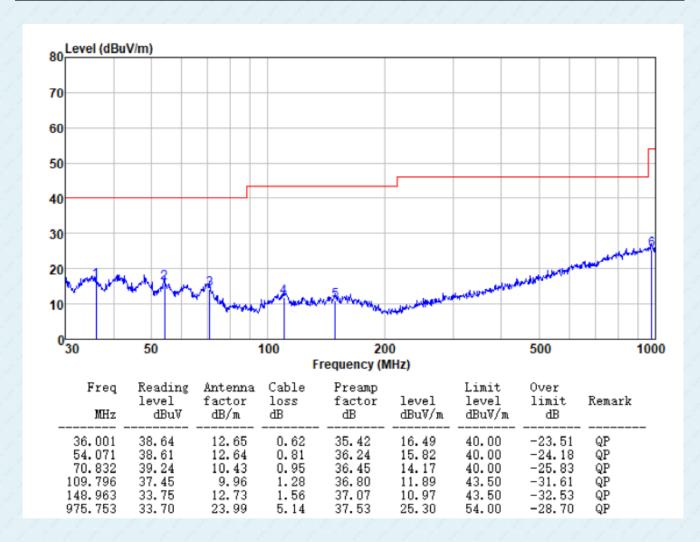


Test channel:	Middle	Polarization:	Horizontal
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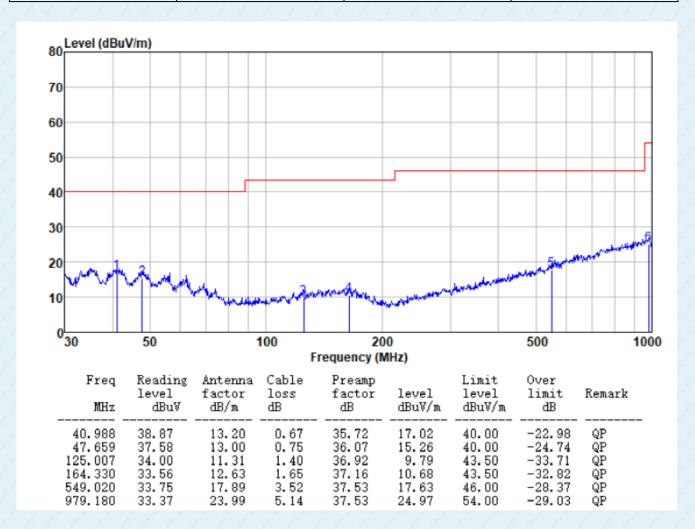


Test channel:	Middle	Polarization:	Vertical
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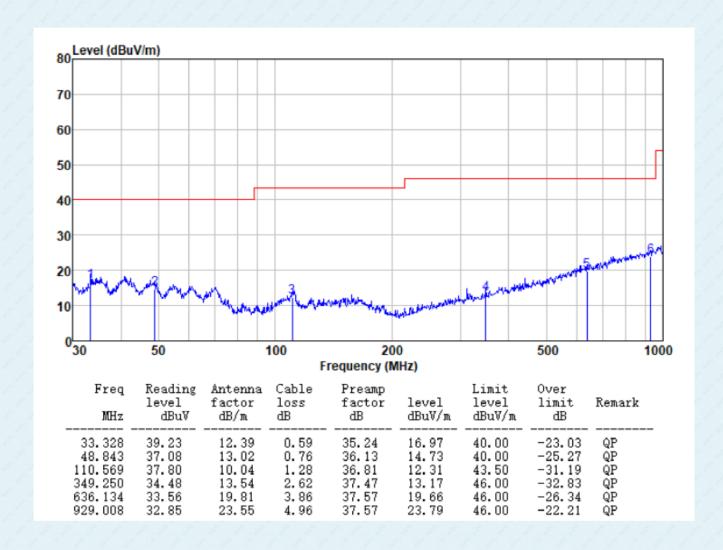


Test channel:	Highest	Polarization:	Horizontal	
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	Test channel:	Highest	Polarization:	Vertical	
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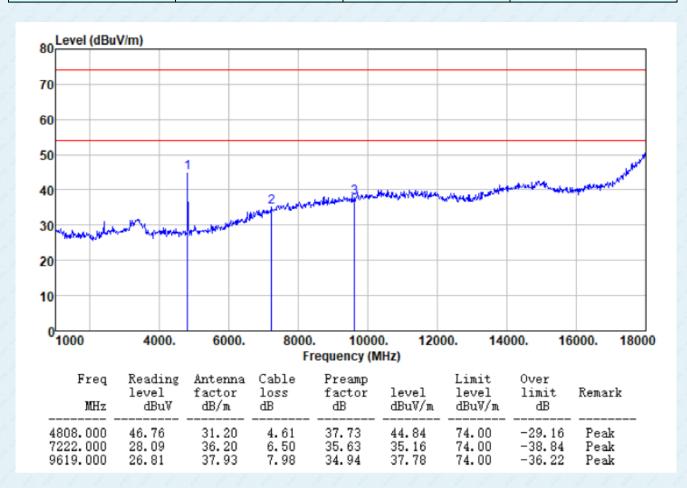




#### ■ Unwanted Emissions in Restricted Frequency Bands

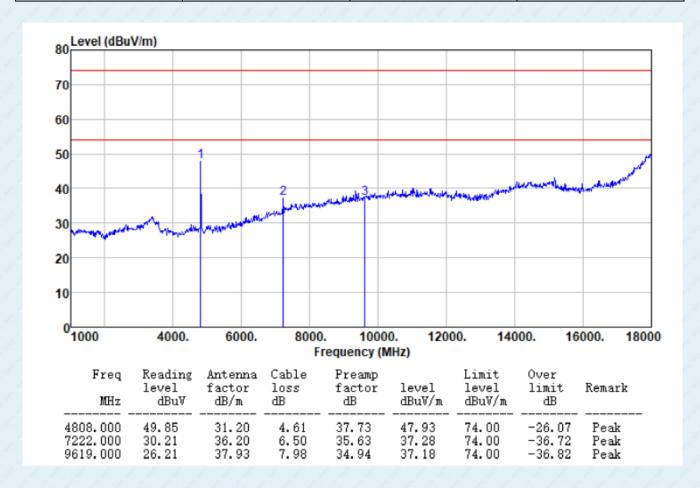
■ Above 1GHz

Test channel: Lowest Polarization: Horizontal



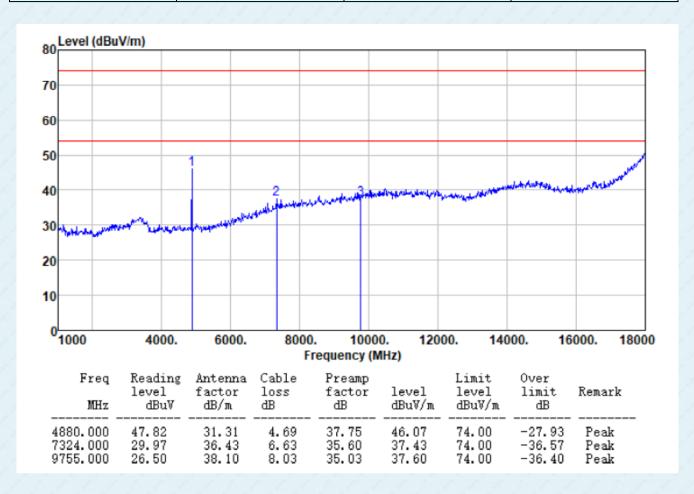


Test channel:	Lowest	Polarization:	Vertical	
---------------	--------	---------------	----------	--



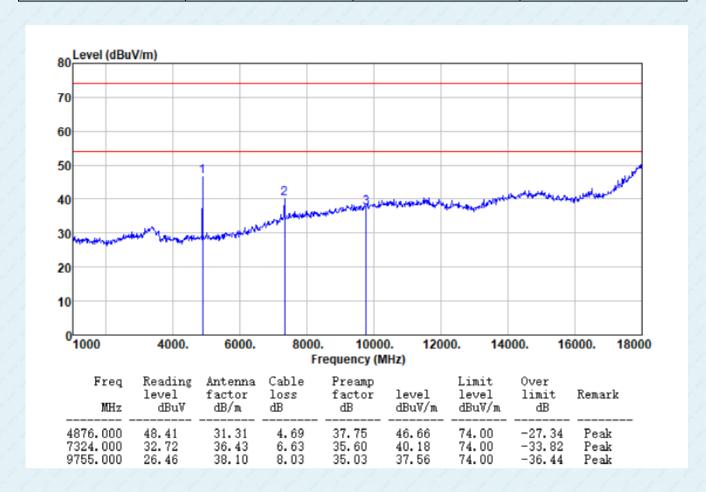


Test channel:	Middle	Polarization:	Horizontal	
---------------	--------	---------------	------------	--



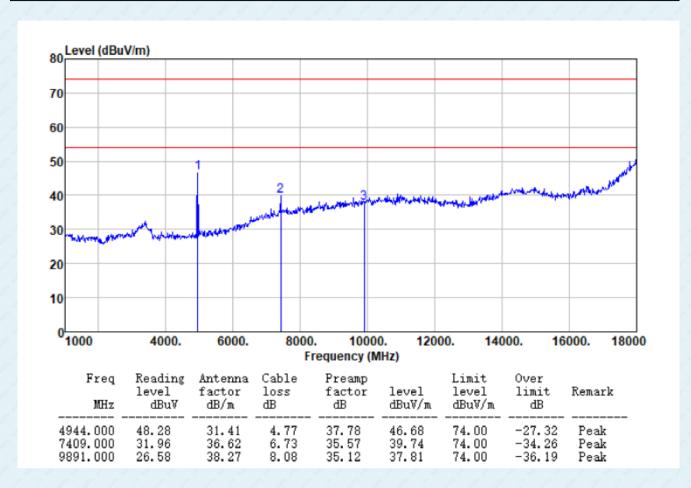


Test	channel:	Middle	Polarization:	Vertical
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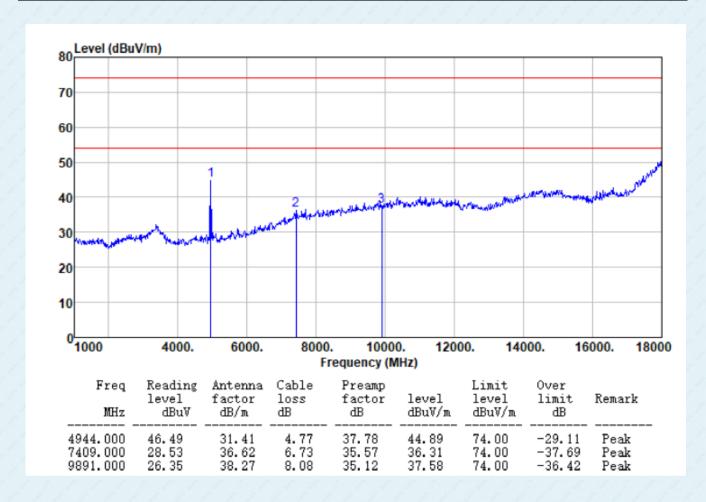


Test channel:	Highest	Polarization:	Horizontal
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Test channel:	Highest	Polarization:	Vertical
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#### Remark:

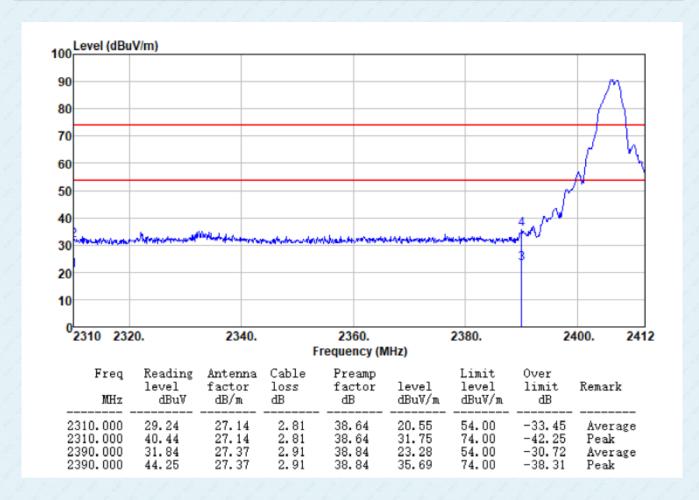
- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "\*", means this data is the too weak instrument of signal is unable to test.
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.



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

**ANT 1:** 

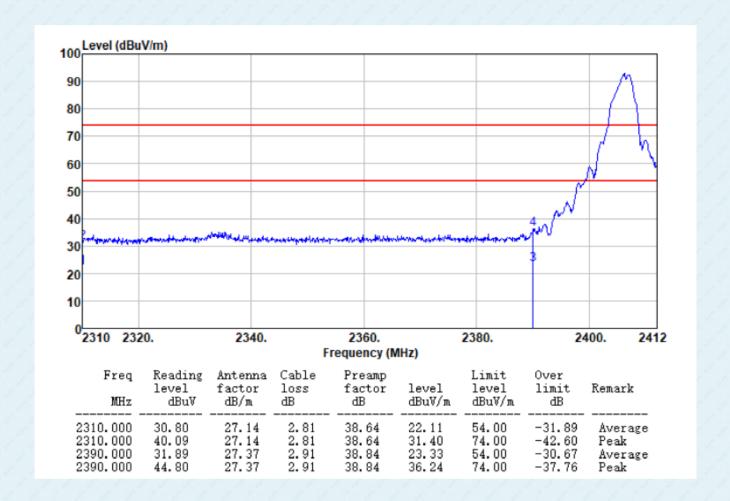
Test channel:	Lowest	Polarization:	Horizontal
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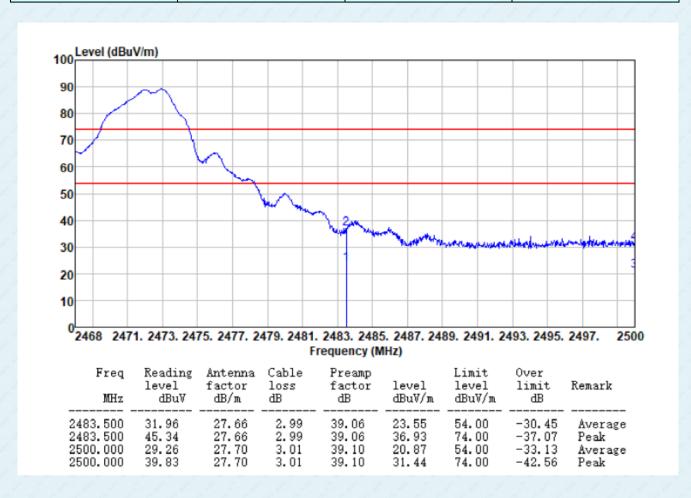


	Test channel:	Lowest	Polarization:	Vertical	
--	---------------	--------	---------------	----------	--



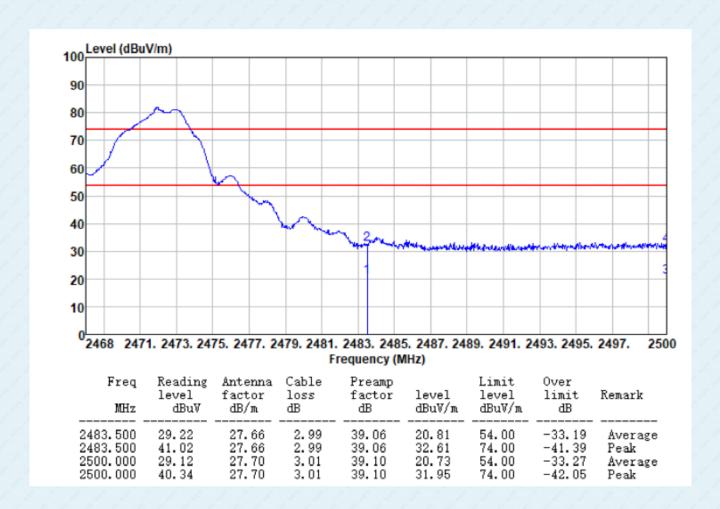


Test channel:	Highest	Polarization:	Horizontal
---------------	---------	---------------	------------





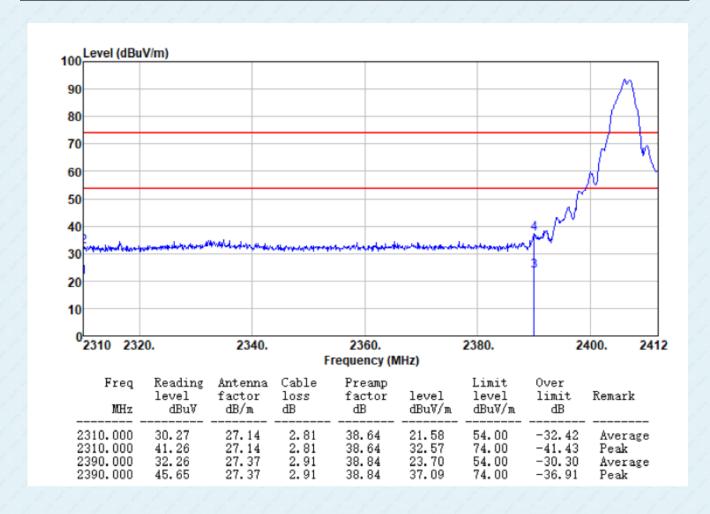
	Test channel:	Highest	Polarziation:	Vertical	
--	---------------	---------	---------------	----------	--





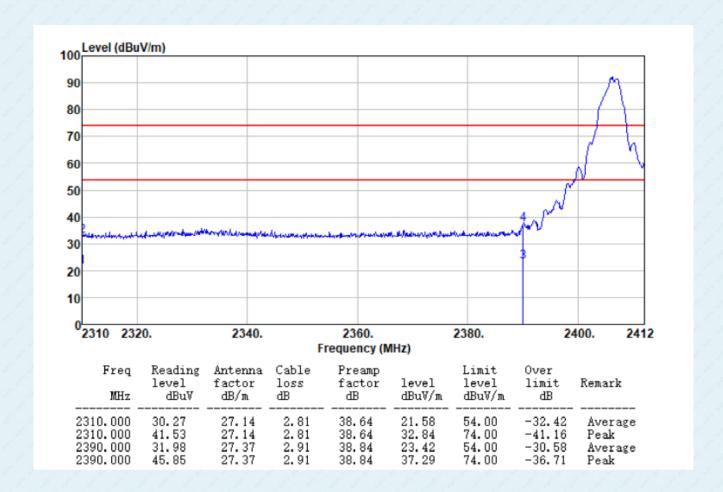
ANT 2:

Test channel:	Lowest	Polarization:	Horizontal
	,		



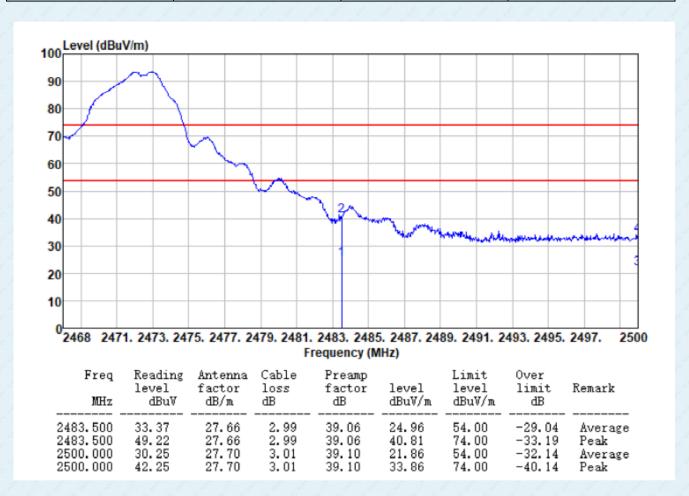


	Test channel:	Lowest	Polarization:	Vertical	
--	---------------	--------	---------------	----------	--



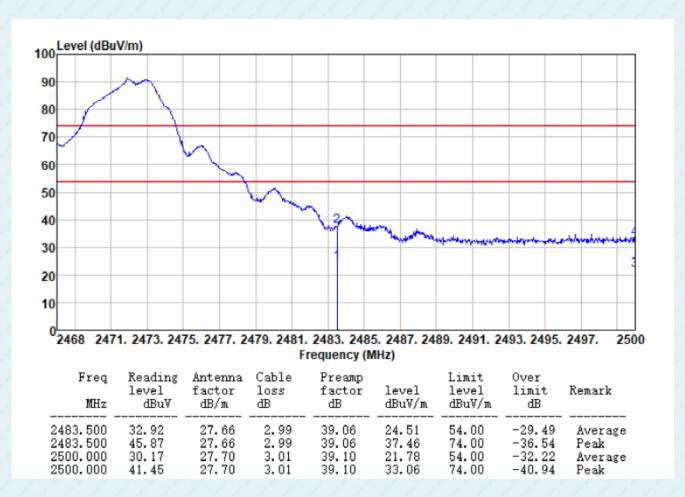


Test channel: Highest Polarization: Horizontal





Test channel:	Highest	Polarziation:	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.
- 3. "\*", means this data is the too weak instrument of signal is unable to test.



## 8 Test Setup Photo

Reference to the appendix I for details.

## 9 EUT Constructional Details

Reference to the appendix II for details.

---End---