Shenzhen EBO Technology Co., Ltd.

1-4F, Huafeng Science Park, Xin'an Sixth Road, 82th District,
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Telephone: +86-755-29451282,
Fax: +86-755-22639141

FCC REPORT

Applicant:	SHENZHEN GUAV INTELLIGENT TECHNOLOGIES CO.,LTD.
Address of Applicant:	1008 Hanhaida Building, 7th Songgang Avenue, Bao'an District, Shenzhen, China.
Equipment Under Test (EUT)	
Product Name:	350 QUADCOPTER
Trade Mark:	GUAV
Model No.:	i8, X350, 480X, 650-X6
FCC ID:	2AFPS-350
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.249:2014
Date of sample receipt:	August 18, 2015
Date of Test:	August 18, 2015 To August 31, 2015
Date of report issued:	August 31, 2015
Test Result :	PASS *

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

Authorized Signature:

Kevin Yu
Laboratory Manager

2 Version

Version No.	Date	Description
00	*August 31, 2015*	*Original*

Prepared By:  ***Date:*** *August 31, 2015*

Project Engineer

Check By:  ***Date:*** *August 31, 2015*

Reviewer

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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	N/A
Field strength of the fundamental signal	15.249 (a)	Pass
Spurious emissions	15.249 (a) (d)/15.209	Pass
Band edge	15.249 (d)/15.205	Pass
20dB Occupied Bandwidth	15.215 (c)	Pass

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

N/A: not applicable.

5 General Information

5.1 Client Information

Applicant:	SHENZHEN GUAV INTELLIGENT TECHNOLOGIES CO.,LTD.
Address of Applicant:	1008 Hanhaida Building, 7th Songgang Avenue, Bao'an District, Shenzhen, China.
Manufacturer/Factory:	SHENZHEN GUAV INTELLIGENT TECHNOLOGIES CO.,LTD.
Address of Manufacturer/ Factory:	1008 Hanhaida Building, 7th Songgang Avenue, Bao'an District, Shenzhen, China.

5.2 General Description of EUT

Product Name:	350 QUADCOPTER
Trade Mark:	GUAV
Model No.:	i8, X350, 480X, 650-X6
Test Mode No.:	X350
Operation Frequency:	2403MHz~2472MHz
Channel numbers:	70
Channel separation:	1MHz
Modulation type:	GFSK
Antenna Type:	Integral Antenna
Antenna gain:	2dBi (declare by Applicant)
Power supply:	TX:DC 6.0V(4*1.5V AA Battery)

Channel list							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2403MHz	19	2421MHz	37	2439MHz	55	2457MHz
2	2404MHz	20	2422MHz	38	2440MHz	56	2458MHz
...	...	...	...	...	...	...	...
17	2419MHz	35	2437MHz	53	2455MHz	70	2472MHz
18	2420MHz	36	2438MHz	54	2456MHz		

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	2403MHz
The middle channel	2437MHz
The Highest channel	2472MHz

5.3 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode
Remark: During the test, the new battery was used.	

Per-test mode.

We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:

Axis	X	Y	Z
Field Strength(dBuV/m)	97.27	103.52	99.15

Final Test Mode:

According to ANSI C63.10 standards, the test results is the data of the “worst setup”:

Y axis (see the test setup photo)

5.4 Description of Support Units

None.

5.5 Test Facility

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

● **FCC —Registration No.: 600491**

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fuly described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 28, 2013.

● **Industry Canada (IC) —Registration No.: 9079A-2**

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-2, June 26, 2013.

5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.
Address: 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China

5.7 Other Information Requested by the Customer

None.

6 Test Instruments list

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	Mar. 29 2015	Mar. 28 2016
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	Spectrum Analyzer	Agilent	E4440A	GTS533	July 08 2015	July 07 2016
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	July 08 2015	July 07 2016
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	July 08 2015	July 07 2016
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	July 08 2015	July 07 2016
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 27 2015	Mar. 26 2016
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 27 2015	Mar. 26 2016
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 27 2015	Mar. 26 2016
11	Coaxial Cable	GTS	N/A	GTS210	Mar. 27 2015	Mar. 26 2016
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 27 2015	Mar. 26 2016
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	July 08 2015	July 07 2016
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	July 08 2015	July 07 2016
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	July 08 2015	July 07 2016
16	Band filter	Amindeon	82346	GTS219	Mar. 27 2015	Mar. 26 2016
17	Power Meter	Anritsu	ML2495A	GTS540	July 08 2015	July 07 2016
18	Power Sensor	Anritsu	MA2411B	GTS541	July 08 2015	July 07 2016

Conducted 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	7.0(L)x3.0(W)x3.0(H)	GTS264	July 08 2015	July 07 2016
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	July 08 2015	July 07 2016
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	July 08 2015	July 07 2016
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	July 08 2015	July 07 2016
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	July 08 2015	July 07 2016
6	Coaxial Cable	GTS	N/A	GTS227	July 08 2015	July 07 2016
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A

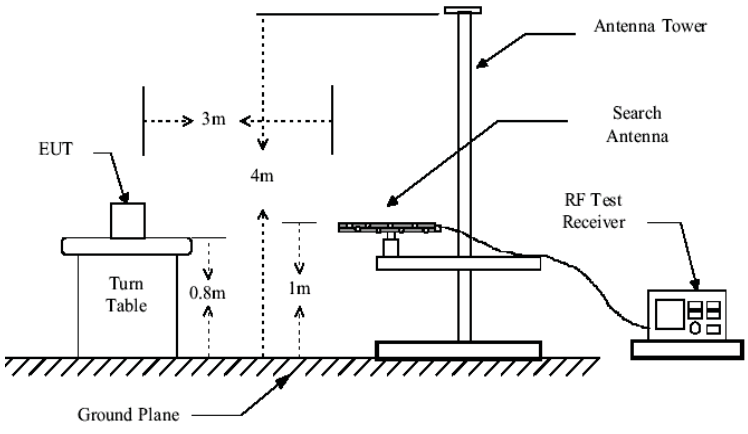
General used equipment:						
Item	**Test Equipment**	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal.Date (mm-dd-yy)**	**Cal.Due date (mm-dd-yy)**
1	Barometer	ChangChun	DYM3	GTS257	July 08 2015	July 07 2016

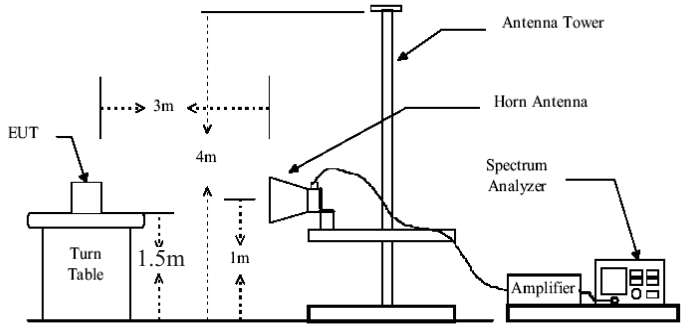
7 Test results and Measurement Data

7.1 Antenna requirement:

Standard requirement:	FCC Part15 C Section 15.203
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.	
E.U.T Antenna:	
The antenna is Integral antenna, the best case gain of the antenna is 2dBi	

7.2 Radiated Emission Method

<table>
<tr><td>Test Requirement:</td><td>FCC Part15 C Section 15.209</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.10:2013 ;ANSI C63.4:2014</td></tr>
<tr><td>Test Frequency Range:</td><td>30MHz to 25GHz</td></tr>
<tr><td>Test site:</td><td>Measurement Distance: 3m</td></tr>
<tr><td>Receiver setup:</td><td>
<table>
<tr><th>Frequency</th><th>Detector</th><th>RBW</th><th>VBW</th><th>Remark</th></tr>
<tr><td>30MHz-1GHz</td><td>Quasi-peak</td><td>120KHz</td><td>300KHz</td><td>Quasi-peak Value</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak Value</td></tr>
<tr><td>Peak</td><td>1MHz</td><td>10Hz</td><td>Average Value</td></tr>
</table>
</td></tr>
<tr><td>Limit:
(Field strength of the fundamental signal)</td><td>
<table>
<tr><th>Frequency</th><th>Limit (dBuV/m @3m)</th><th>Remark</th></tr>
<tr><td rowspan="2">2400MHz-2483.5MHz</td><td>94.00</td><td>Average Value</td></tr>
<tr><td>114.00</td><td>Peak Value</td></tr>
</table>
For fundamental frequency, the RBW and VBW were set to 3MHz and 10MHz. Peak detector for peak value, Average detector for average value.
</td></tr>
<tr><td>Limit:
(Spurious Emissions)</td><td>
<table>
<tr><th>Frequency</th><th>Limit (dBuV/m @3m)</th><th>Remark</th></tr>
<tr><td>30MHz-88MHz</td><td>40.00</td><td>Quasi-peak Value</td></tr>
<tr><td>88MHz-216MHz</td><td>43.50</td><td>Quasi-peak Value</td></tr>
<tr><td>216MHz-960MHz</td><td>46.00</td><td>Quasi-peak Value</td></tr>
<tr><td>960MHz-1GHz</td><td>54.00</td><td>Quasi-peak Value</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>54.00</td><td>Average Value</td></tr>
<tr><td>74.00</td><td>Peak Value</td></tr>
</table>
</td></tr>
<tr><td>Limit:
(band edge)</td><td>Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.</td></tr>
<tr><td>Test setup:</td><td>Below 1GHz
 
</td></tr>
</table>

	Above 1GHz 
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8m for below 1GHz and 1.5m for above 1GHz above the ground at a 3 meter camber. The table was rotated 360 degrees . 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. 7. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement data:

7.2.1 Field Strength of The Fundamental Signal

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2403.00	100.73	27.58	5.39	30.18	103.52	114.00	-10.48	Vertical
2403.00	96.50	27.58	5.39	30.18	99.29	114.00	-14.71	Horizontal
2437.00	99.23	27.55	5.43	30.06	102.15	114.00	-11.85	Vertical
2437.00	94.94	27.55	5.43	30.06	97.86	114.00	-16.14	Horizontal
2472.00	99.42	27.52	5.47	29.93	102.48	114.00	-11.52	Vertical
2472.00	95.62	27.52	5.47	29.93	98.68	114.00	-15.32	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2403.00	88.90	27.58	5.39	30.18	91.69	94.00	-2.31	Vertical
2403.00	85.84	27.58	5.39	30.18	88.63	94.00	-5.37	Horizontal
2437.00	86.92	27.55	5.43	30.06	89.84	94.00	-4.16	Vertical
2437.00	83.73	27.55	5.43	30.06	86.65	94.00	-7.35	Horizontal
2472.00	85.53	27.52	5.47	29.93	88.59	94.00	-5.41	Vertical
2472.00	83.62	27.52	5.47	29.93	86.68	94.00	-7.32	Horizontal

7.2.2 Spurious emissions

■ Below 1GHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
55.42	42.37	14.98	0.82	29.96	28.21	40.00	-11.79	Vertical
114.11	36.24	13.52	1.31	29.60	21.47	43.50	-22.03	Vertical
202.81	33.05	12.64	1.86	29.23	18.32	43.50	-25.18	Vertical
216.78	31.77	13.10	1.94	29.36	17.45	46.00	-28.55	Vertical
522.72	25.17	19.05	3.40	29.30	18.32	46.00	-27.68	Vertical
922.52	26.27	23.24	4.93	29.10	25.34	46.00	-20.66	Vertical
55.22	32.71	15.00	0.82	29.96	18.57	40.00	-21.43	Horizontal
93.11	29.73	14.50	1.14	29.73	15.64	43.50	-27.86	Horizontal
253.84	29.49	14.06	2.14	29.67	16.02	46.00	-29.98	Horizontal
364.26	25.79	16.46	2.69	29.67	15.27	46.00	-30.73	Horizontal
601.43	25.15	20.46	3.73	29.30	20.04	46.00	-25.96	Horizontal
922.52	25.79	23.24	4.93	29.10	24.86	46.00	-21.14	Horizontal

■ Above 1GHz

Test channel:	Lowest

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4806.00	46.71	31.78	8.60	32.09	55.00	74.00	-19.00	Vertical
7209.00	33.35	36.15	11.65	32.00	49.15	74.00	-24.85	Vertical
9612.00	32.82	37.95	14.14	31.62	53.29	74.00	-20.71	Vertical
12015.00	*					74.00		Vertical
14418.00	*					74.00		Vertical
4806.00	49.47	31.78	8.60	32.09	57.76	74.00	-16.24	Horizontal
7209.00	35.31	36.15	11.65	32.00	51.11	74.00	-22.89	Horizontal
9612.00	32.46	37.95	14.14	31.62	52.93	74.00	-21.07	Horizontal
12015.00	*					74.00		Horizontal
14418.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4806.00	34.90	31.78	8.60	32.09	43.19	54.00	-10.81	Vertical
7209.00	21.78	36.15	11.65	32.00	37.58	54.00	-16.42	Vertical
9612.00	20.71	37.95	14.14	31.62	41.18	54.00	-12.82	Vertical
12015.00	*					54.00		Vertical
14418.00	*					54.00		Vertical
4806.00	37.52	31.78	8.60	32.09	45.81	54.00	-8.19	Horizontal
7209.00	24.10	36.15	11.65	32.00	39.90	54.00	-14.10	Horizontal
9612.00	20.63	37.95	14.14	31.62	41.10	54.00	-12.90	Horizontal
12015.00	*					54.00		Horizontal
14418.00	*					54.00		Horizontal

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.*

Test channel:	Middle

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	44.09	31.85	8.67	32.12	52.49	74.00	-21.51	Vertical
7311.00	31.62	36.37	11.72	31.89	47.82	74.00	-26.18	Vertical
9748.00	31.28	38.35	14.25	31.62	52.26	74.00	-21.74	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
4874.00	46.32	31.85	8.67	32.12	54.72	74.00	-19.28	Horizontal
7311.00	33.34	36.37	11.72	31.89	49.54	74.00	-24.46	Horizontal
9748.00	30.67	38.35	14.25	31.62	51.65	74.00	-22.35	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	32.79	31.85	8.67	32.12	41.19	54.00	-12.81	Vertical
7311.00	20.35	36.37	11.72	31.89	36.55	54.00	-17.45	Vertical
9748.00	19.44	38.35	14.25	31.62	40.42	54.00	-13.58	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
4874.00	35.12	31.85	8.67	32.12	43.52	54.00	-10.48	Horizontal
7311.00	22.50	36.37	11.72	31.89	38.70	54.00	-15.30	Horizontal
9748.00	19.15	38.35	14.25	31.62	40.13	54.00	-13.87	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal

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.*

Test channel:	Highest

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4944.00	44.92	31.93	8.73	32.16	53.42	74.00	-20.58	Vertical
7416.00	32.17	36.59	11.79	31.78	48.77	74.00	-25.23	Vertical
9888.00	31.77	38.81	14.38	31.88	53.08	74.00	-20.92	Vertical
12360.00	*					74.00		Vertical
14832.00	*					74.00		Vertical
4944.00	47.32	31.93	8.73	32.16	55.82	74.00	-18.18	Horizontal
7416.00	33.97	36.59	11.79	31.78	50.57	74.00	-23.43	Horizontal
9888.00	31.24	38.81	14.38	31.88	52.55	74.00	-21.45	Horizontal
12360.00	*					74.00		Horizontal
14832.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4944.00	33.55	31.93	8.73	32.16	42.05	54.00	-11.95	Vertical
7416.00	20.87	36.59	11.79	31.78	37.47	54.00	-16.53	Vertical
9888.00	19.90	38.81	14.38	31.88	41.21	54.00	-12.79	Vertical
12360.00	*					54.00		Vertical
14832.00	*					54.00		Vertical
4944.00	35.99	31.93	8.73	32.16	44.49	54.00	-9.51	Horizontal
7416.00	23.08	36.59	11.79	31.78	39.68	54.00	-14.32	Horizontal
9888.00	19.69	38.81	14.38	31.88	41.00	54.00	-13.00	Horizontal
12360.00	*					54.00		Horizontal
14832.00	*					54.00		Horizontal

Remark:

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.*

7.2.3 Bandedge emissions

All of the restriction bands were tested, and only the data of worst case was exhibited.

Test channel:	Lowest channel

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	50.87	27.59	5.38	30.18	53.66	74.00	-20.34	Horizontal
2400.00	63.80	27.58	5.39	30.18	66.59	74.00	-7.41	Horizontal
2390.00	52.18	27.59	5.38	30.18	54.97	74.00	-19.03	Vertical
2400.00	66.69	27.58	5.39	30.18	69.48	74.00	-4.52	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	39.61	27.59	5.38	30.18	42.40	54.00	-11.60	Horizontal
2400.00	46.33	27.58	5.39	30.18	49.12	54.00	-4.89	Horizontal
2390.00	40.13	27.59	5.38	30.18	42.92	54.00	-11.08	Vertical
2400.00	48.74	27.58	5.39	30.18	51.53	54.00	-2.48	Vertical

Test channel:	Highest

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	48.50	27.53	5.47	29.93	51.57	74.00	-22.43	Vertical
2500.00	47.07	27.55	5.49	29.93	50.18	74.00	-23.82	Vertical
2483.50	49.87	27.53	5.47	29.93	52.94	74.00	-21.06	Horizontal
2500.00	48.37	27.55	5.49	29.93	51.48	74.00	-22.52	Horizontal

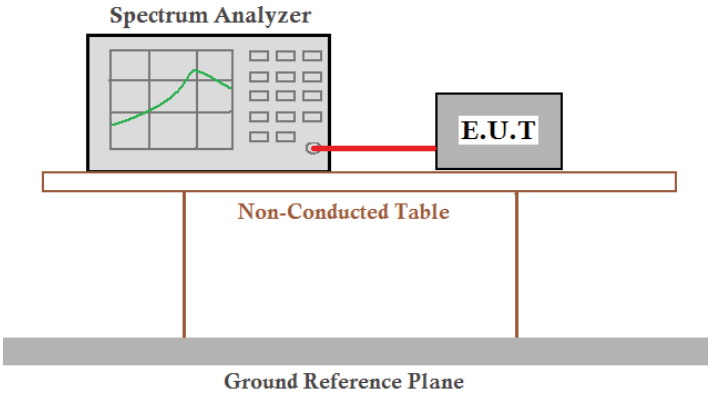
Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	38.73	27.53	5.47	29.93	41.80	54.00	-12.20	Vertical
2500.00	36.28	27.55	5.49	29.93	39.39	54.00	-14.61	Vertical
2483.50	40.20	27.53	5.47	29.93	43.27	54.00	-10.73	Horizontal
2500.00	36.46	27.55	5.49	29.93	39.57	54.00	-14.43	Horizontal

Remark:

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

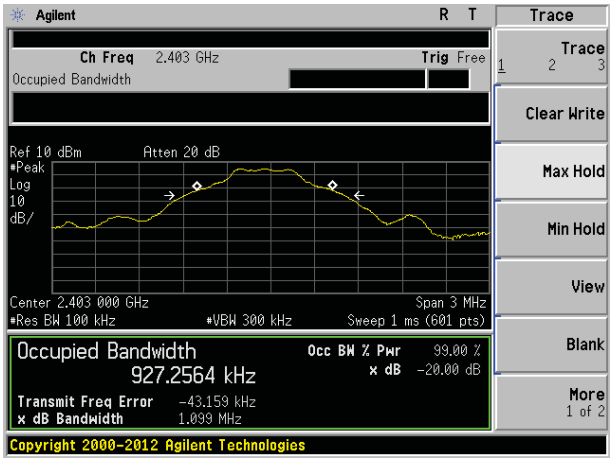
7.3 20dB Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.249/15.215
Test Method:	ANSI C63.10:2013
Limit:	Operation Frequency range 2400MHz~2483.5MHz
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

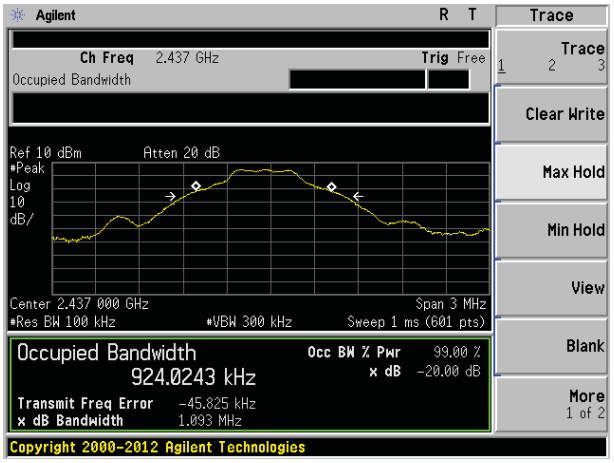
Measurement Data

Test channel	20dB bandwidth(MHz)	Result
Lowest	1.099	Pass
Middle	1.093	Pass
Highest	1.099	Pass

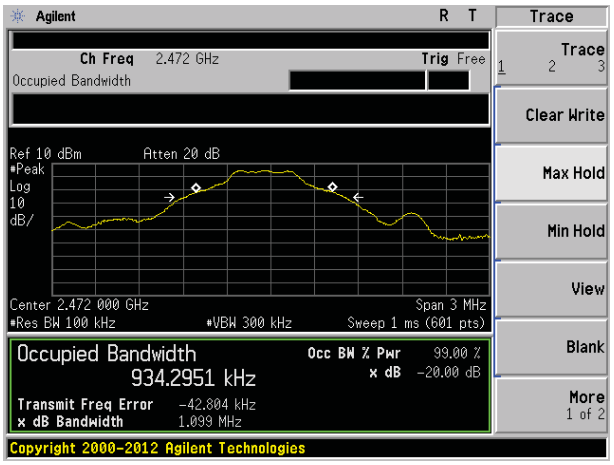
Test plot as follows:



Lowest channel



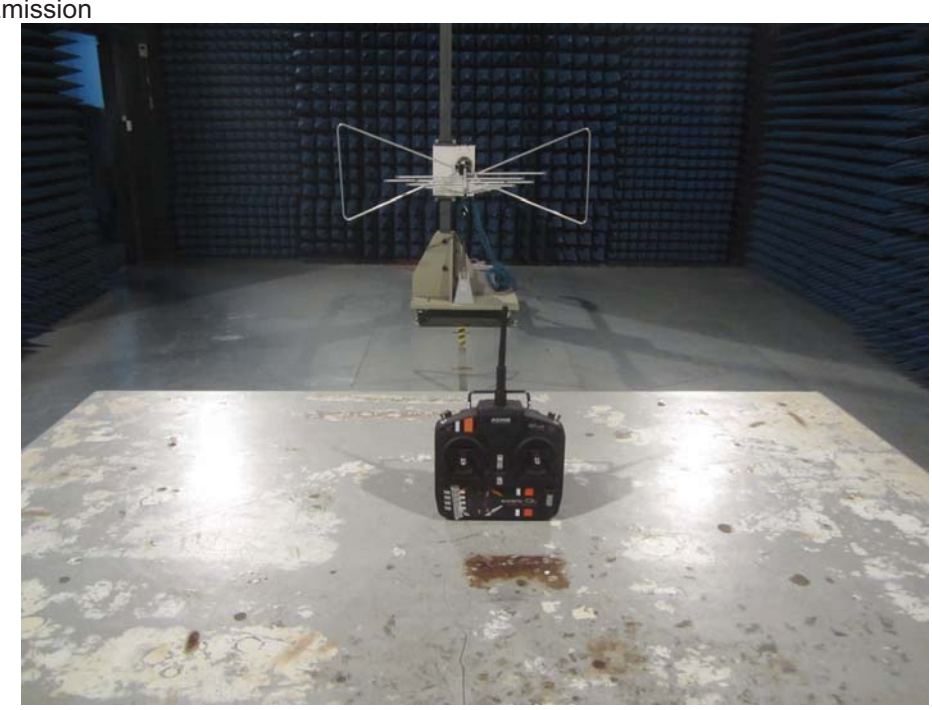
Middle channel

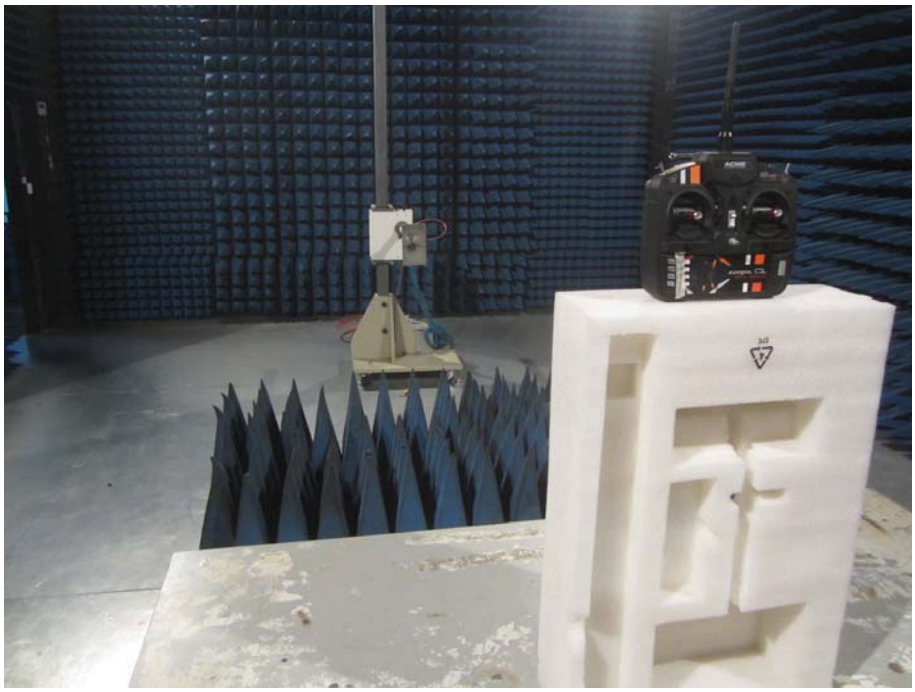


Highest channel

8 Test Setup Photo

Radiated Emission





9 EUT Constructional Details

Fig.1

Fig.2 (TX)

Fig.3 (TX)

Fig.4 (TX)

Fig.5(TX)

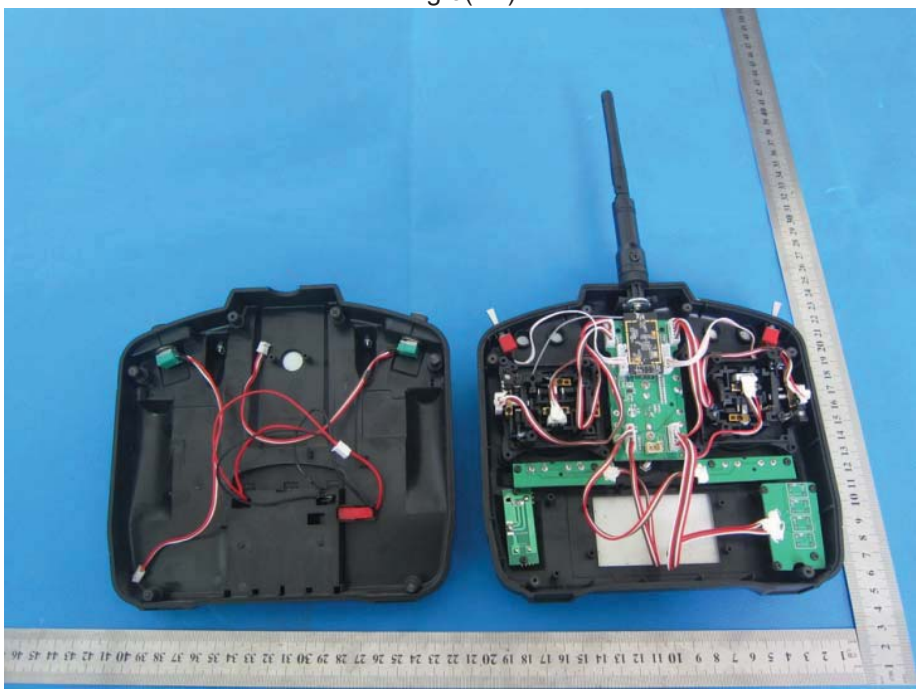


Fig.6 (TX)

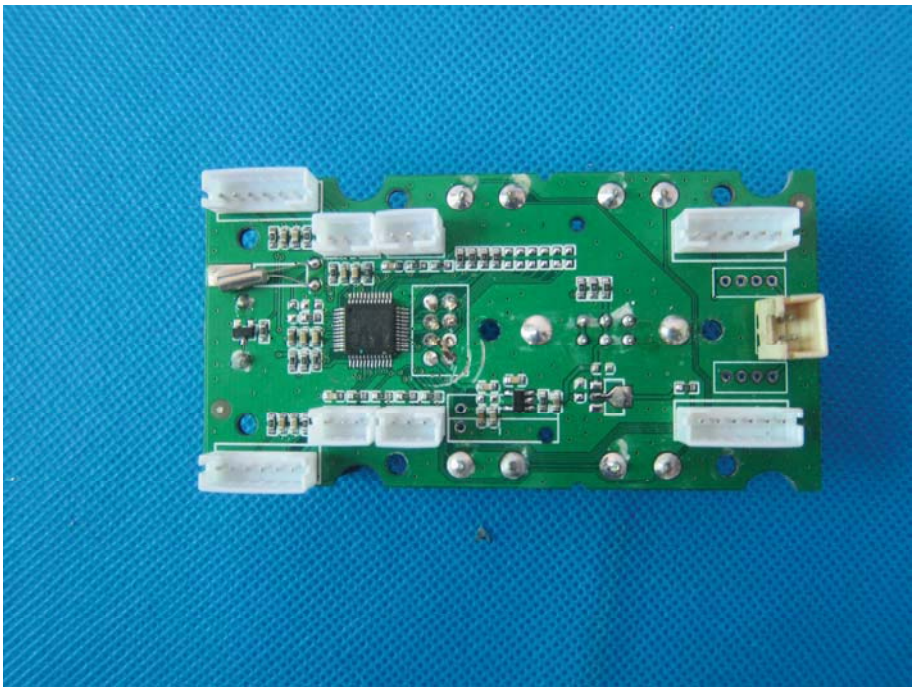


Fig.7 (TX)

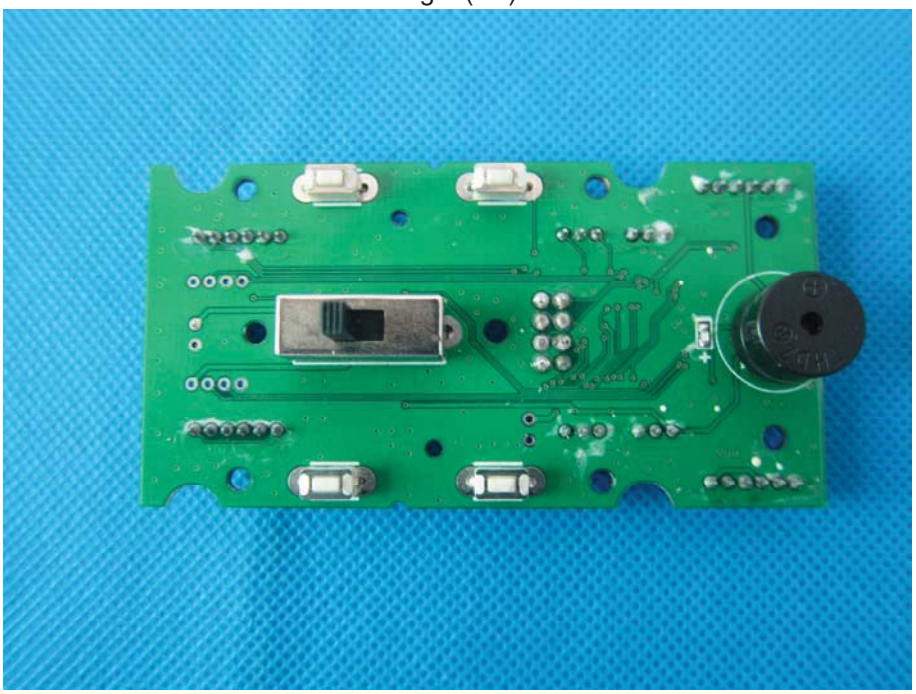


Fig.8 (TX)

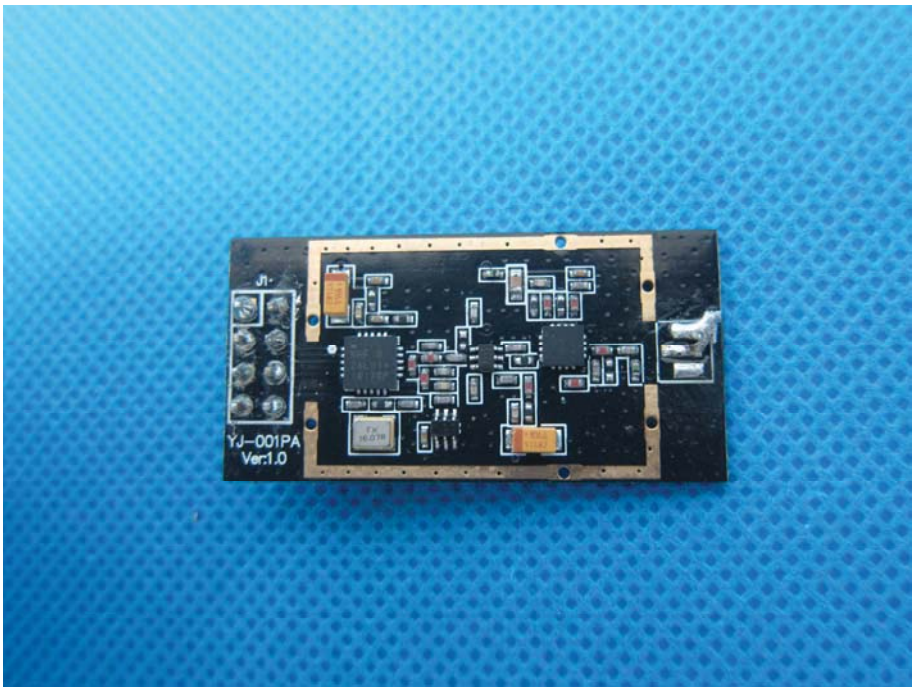


Fig.9 (TX)

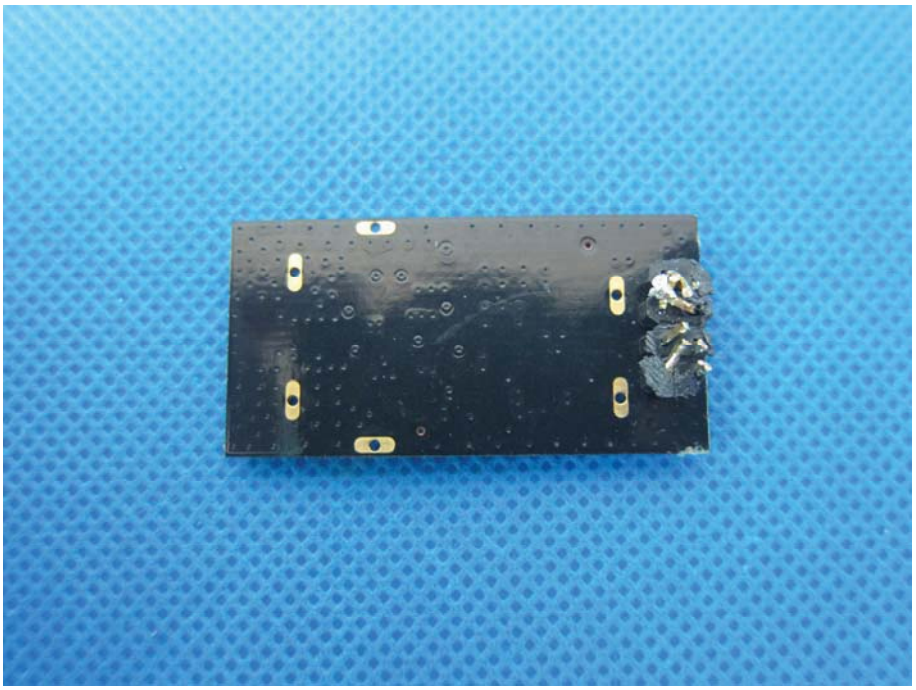


Fig.10 (TX)

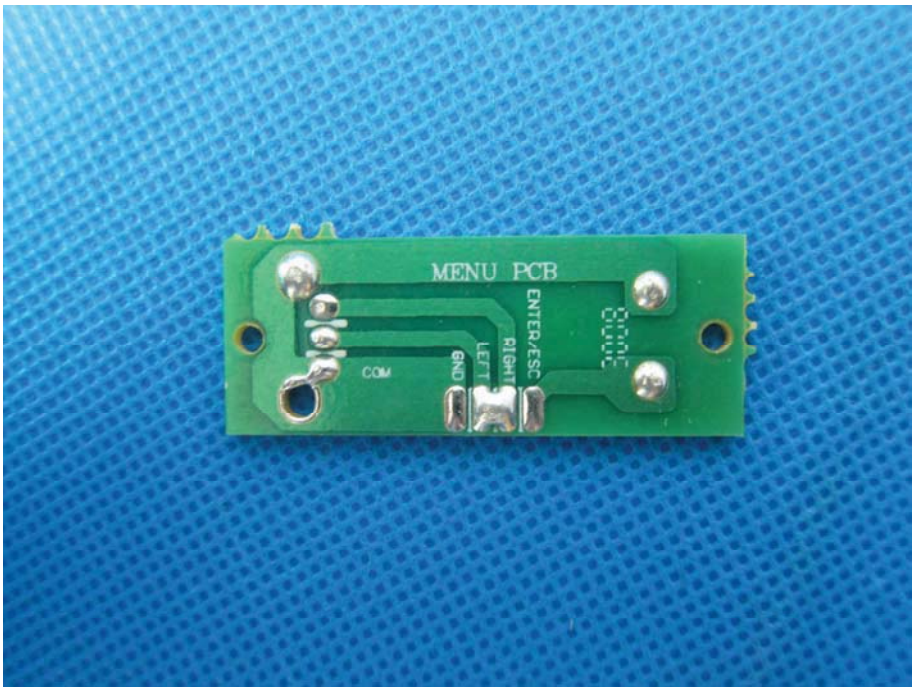


Fig.11 (TX)

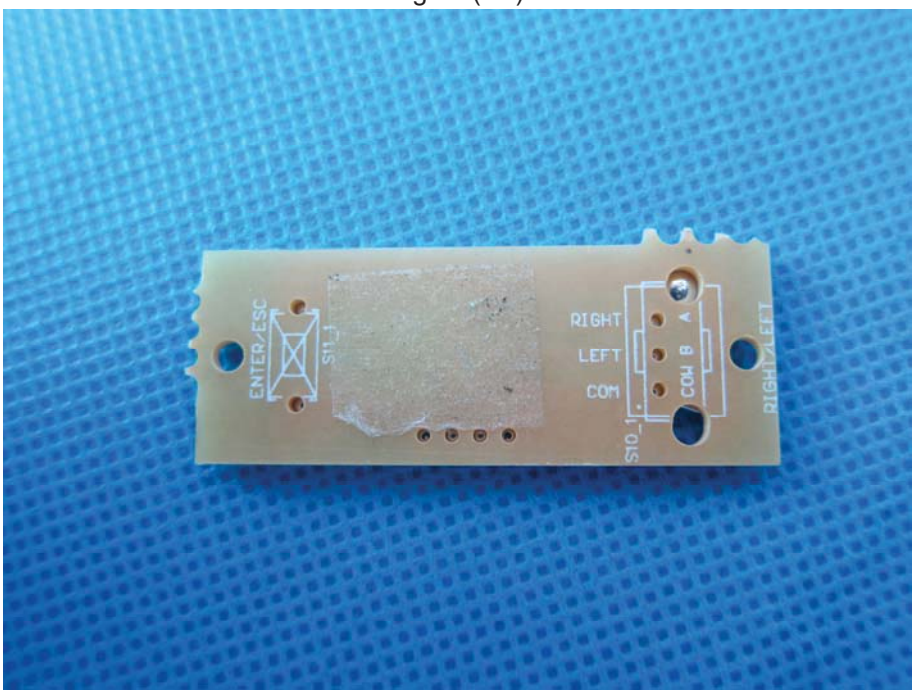


Fig.12 (TX)

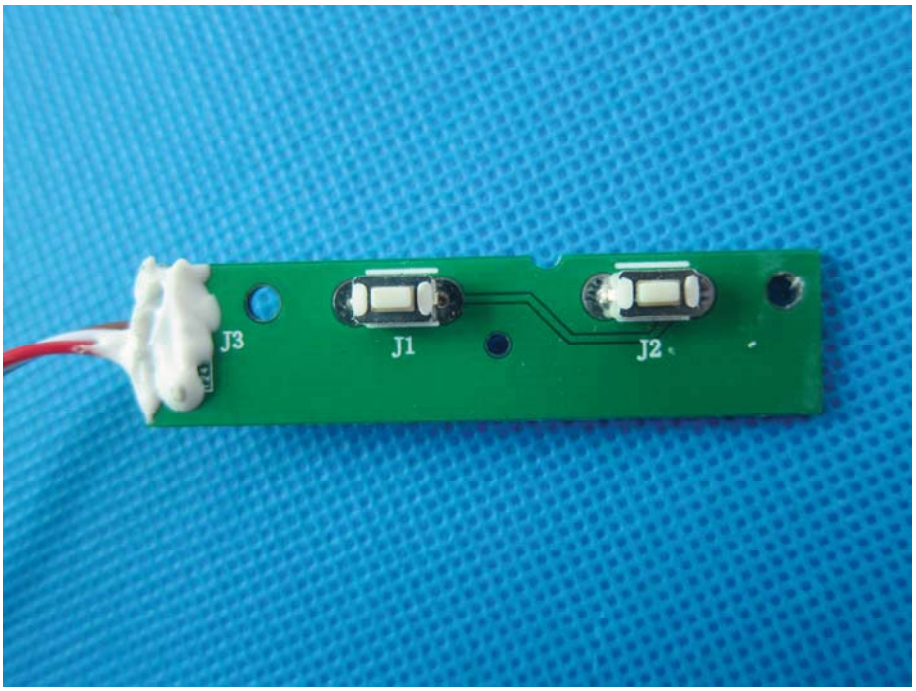


Fig.13 (TX)

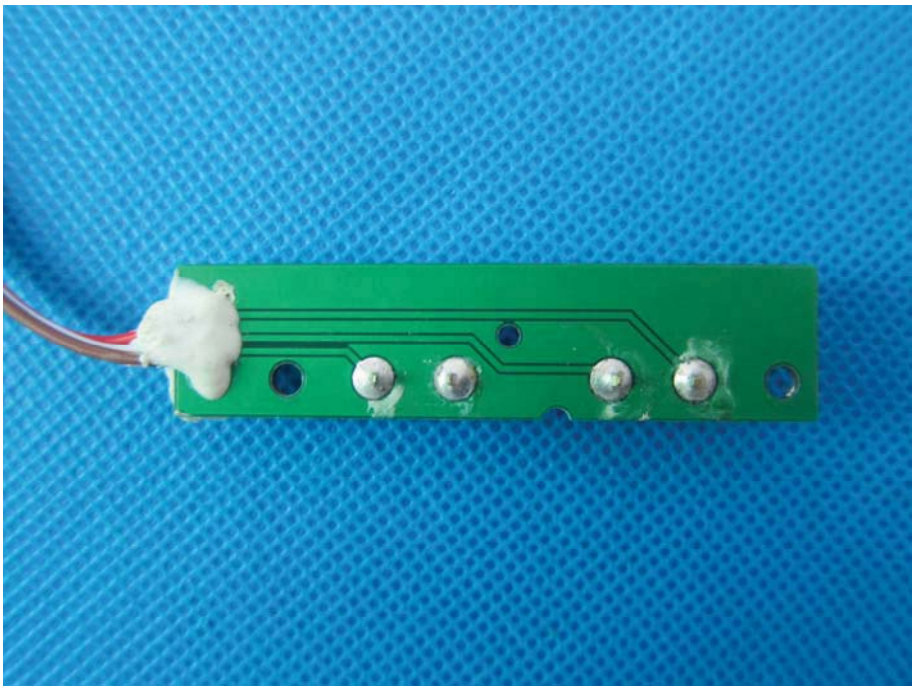


Fig.14 (TX)

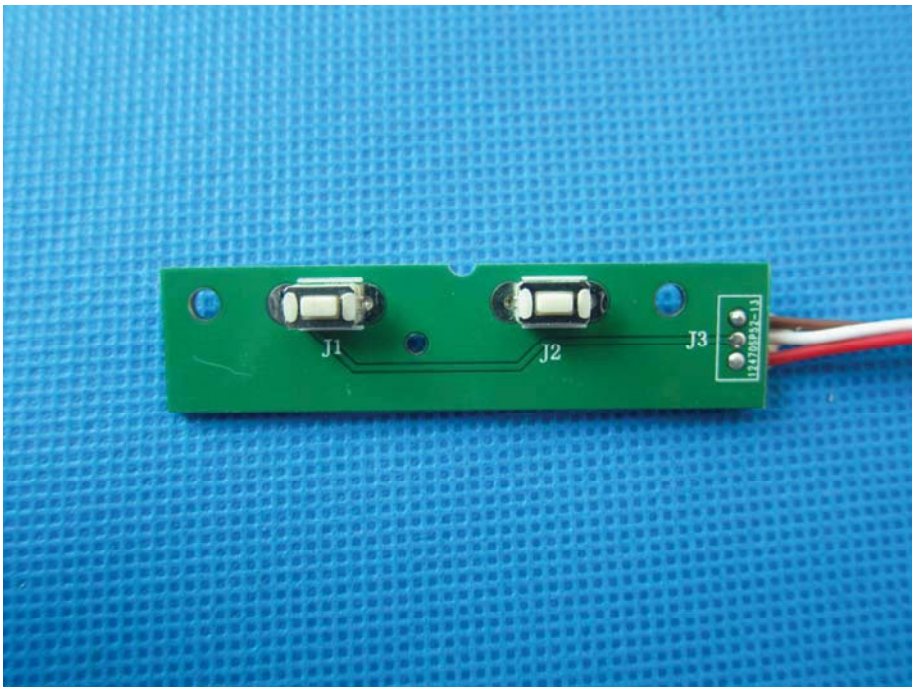


Fig.15 (TX)

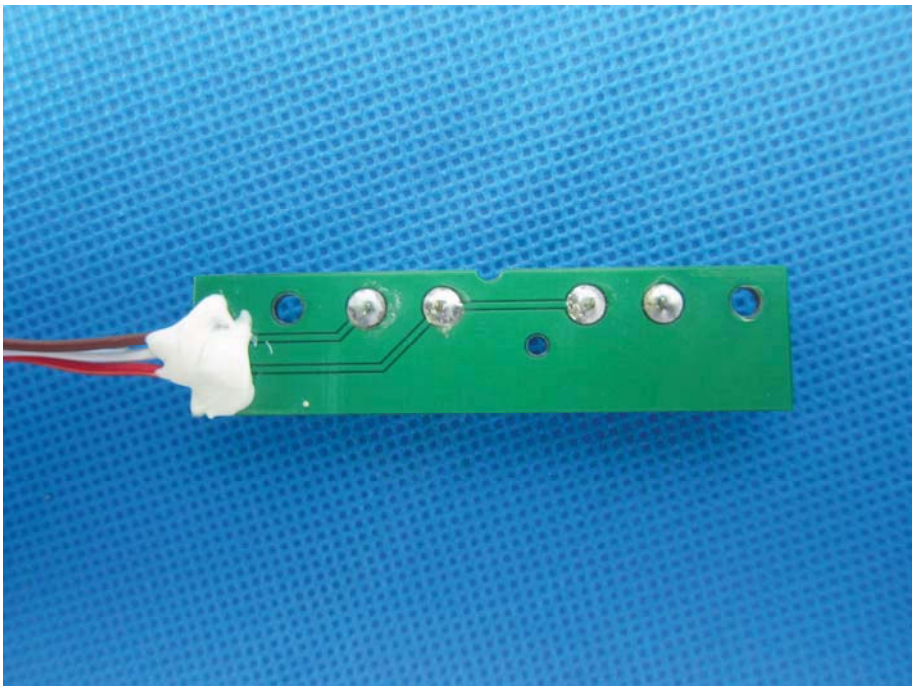


Fig.16 (TX)

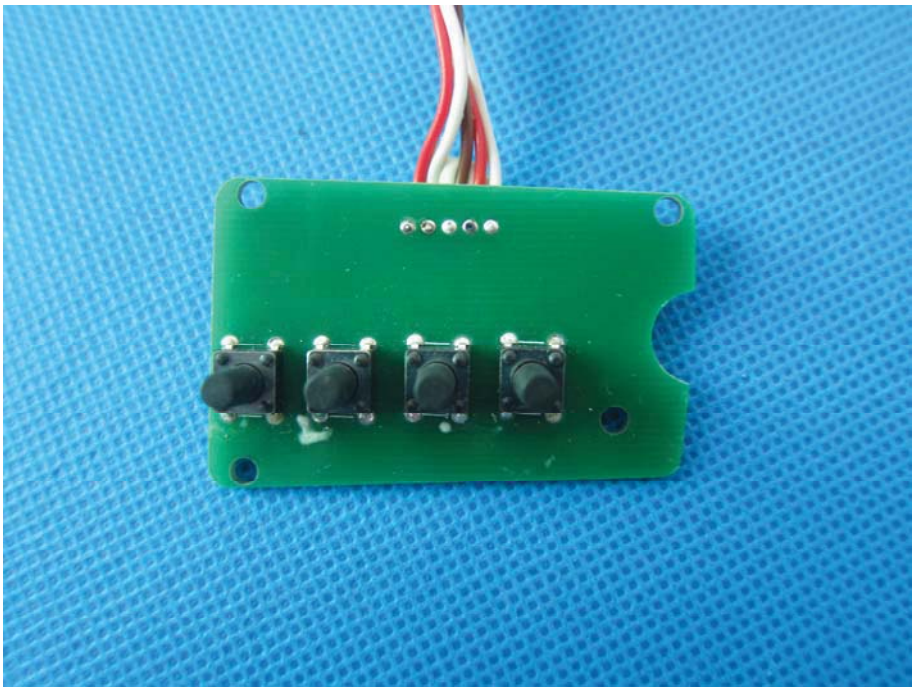


Fig.17 (TX)

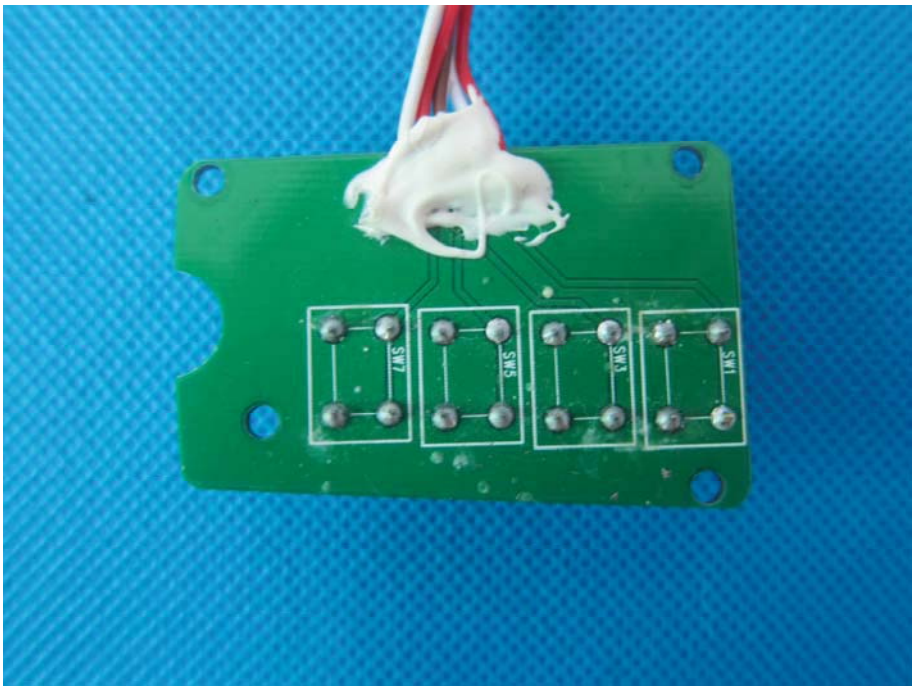


Fig.18 (TX)

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