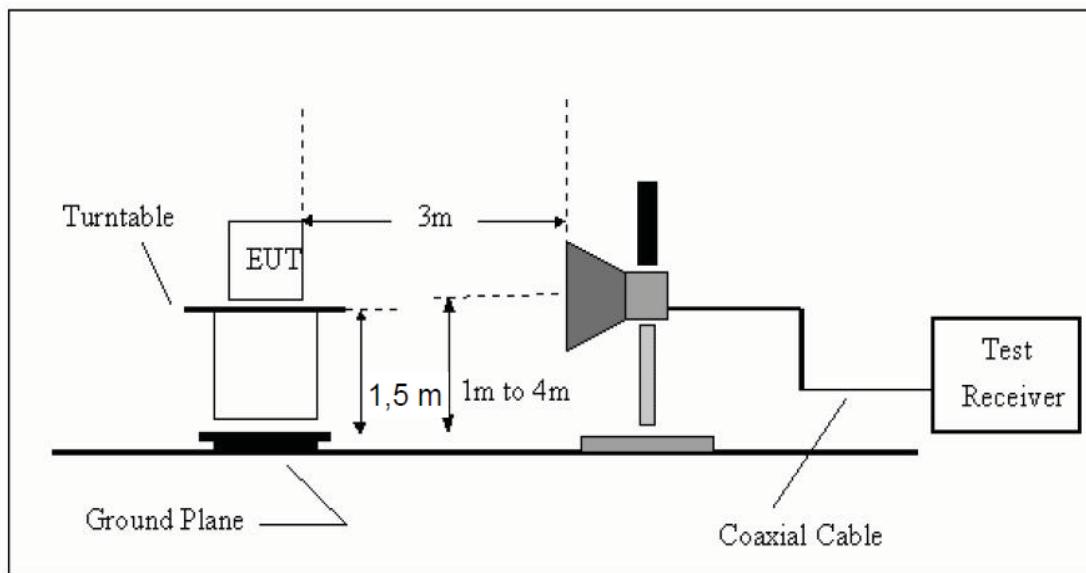


9. Band Edge Compliance

9.1. Block Diagram of Test Setup



9.2. Limit

All the lower and upper band-edges emissions appearing within restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

9.3. Test Procedure

All restriction band and non-restriction band have been tested, only worse case is reported.

9.4. Test Result

PASS. (See below detailed test data)

Radiated Method

GFSK (CH Low)

GFSK (CH High)

GFSK (Hopping Low)

GFSK (Hopping High)

$\pi/4$ DQPSK (CH Low)

$\pi/4$ DQPSK (CH High)

$\pi/4$ DQPSK (Hopping Low)

$\pi/4$ DQPSK (Hopping High)

8- DPSK (CH Low)

8- DPSK (CH High)

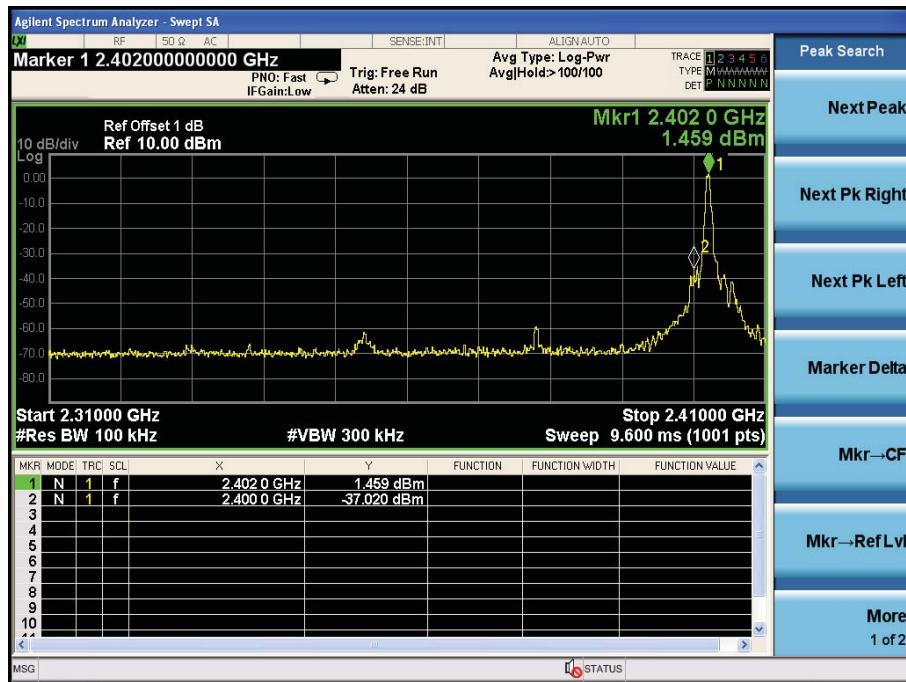
8- DPSK (Hopping Low)

8- DPSK (Hopping High)

Conducted Method

GFSK

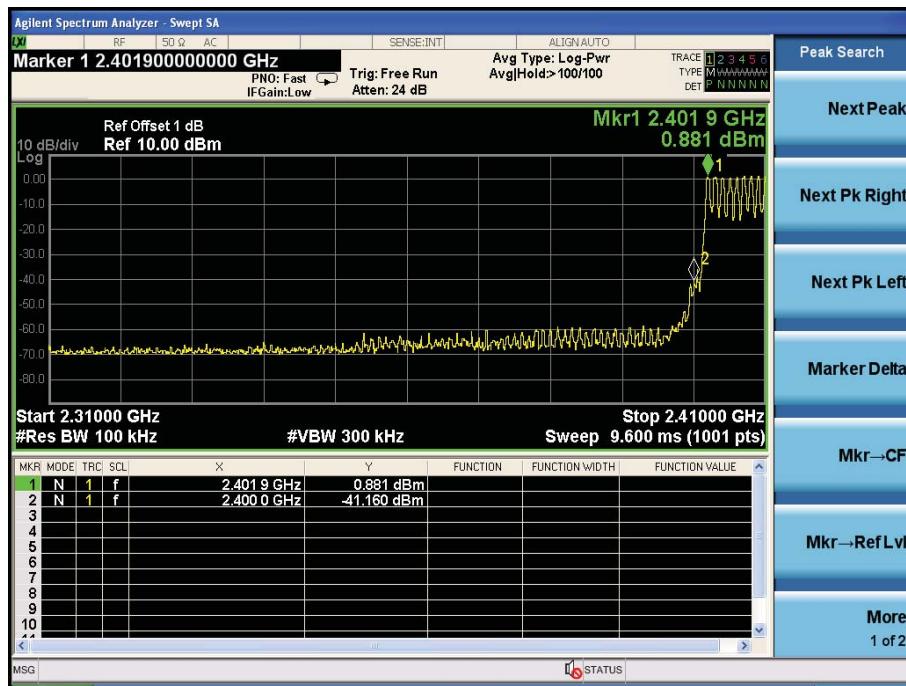
CH LOW :



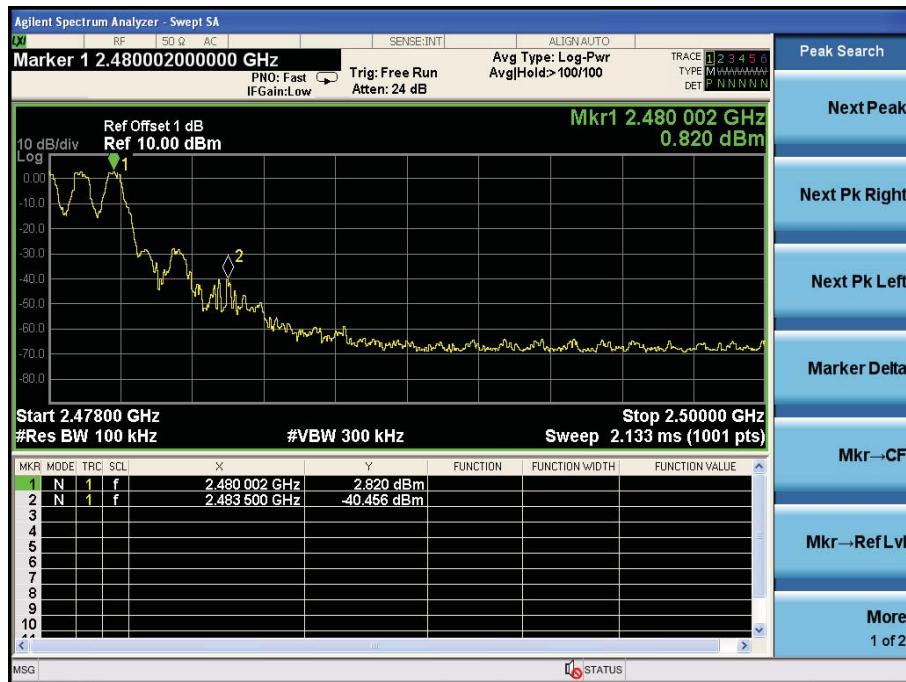
CH High :



Hopping
Low

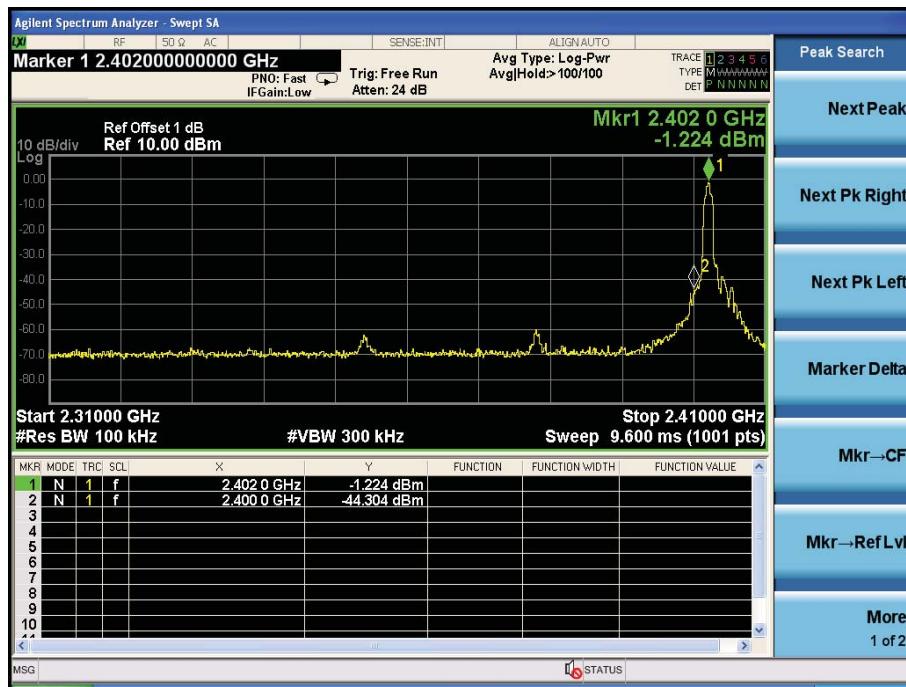


High



$\pi/4$ DQPSK

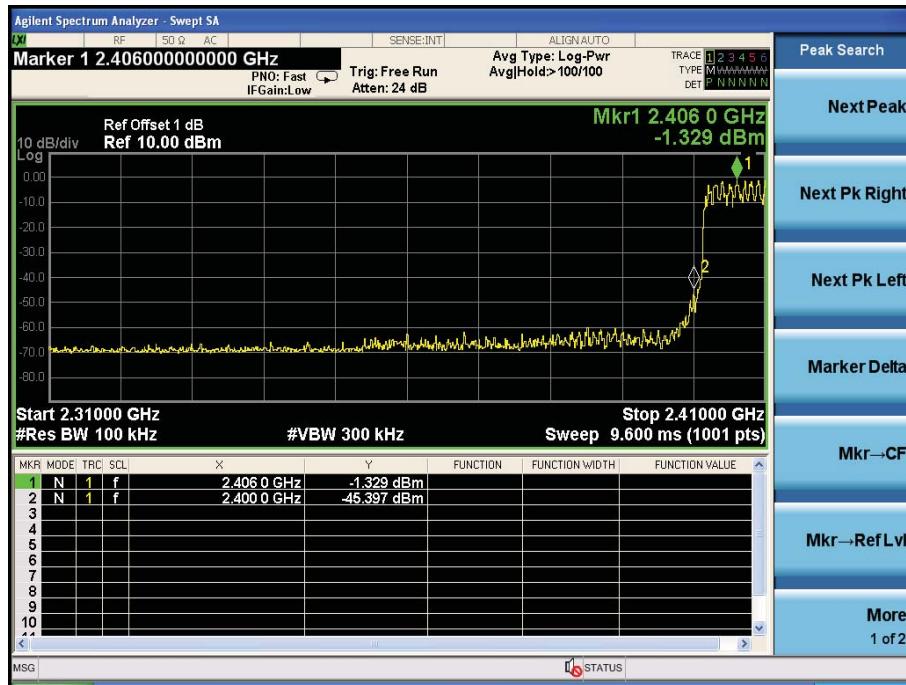
Low



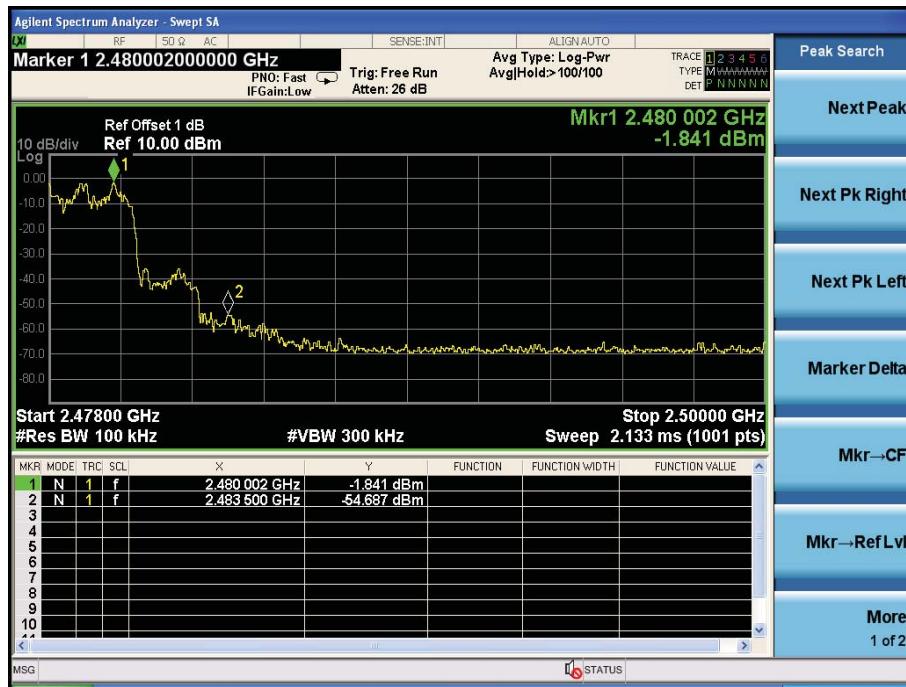
High



Hopping
Low

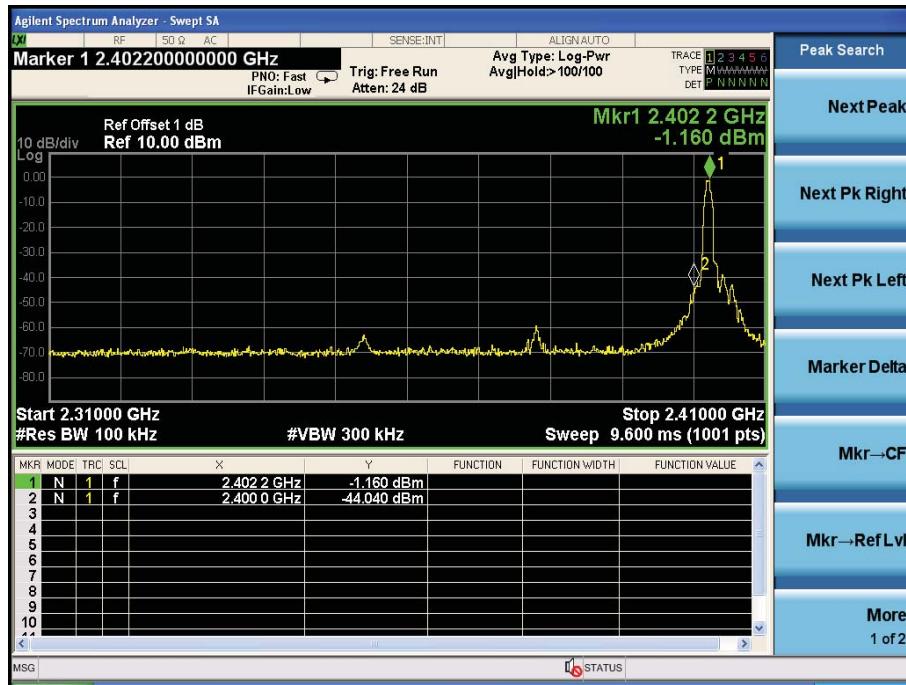


High



8- DPSK:

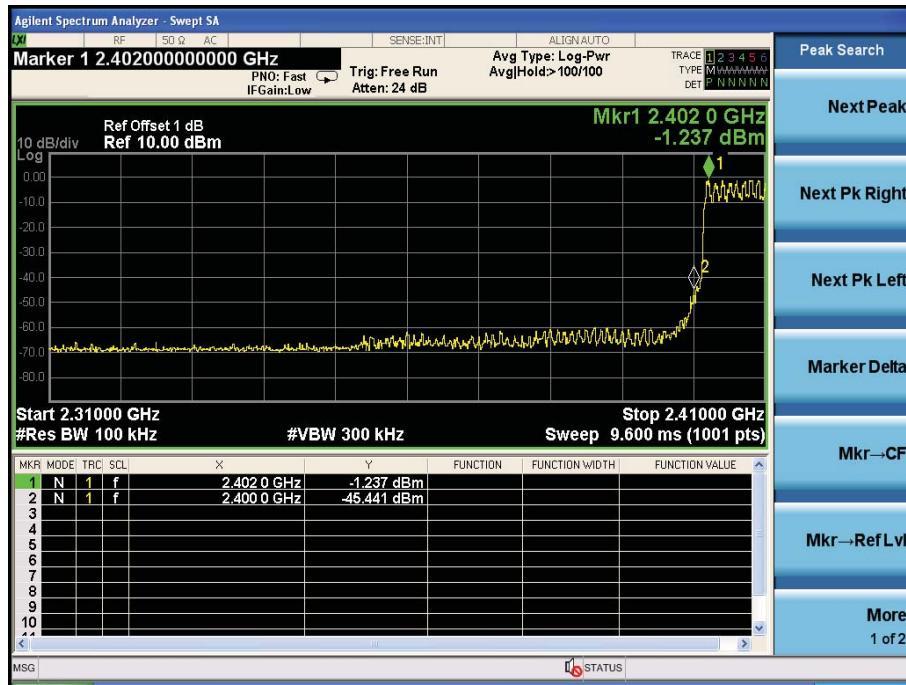
Low



High



Hopping
Low

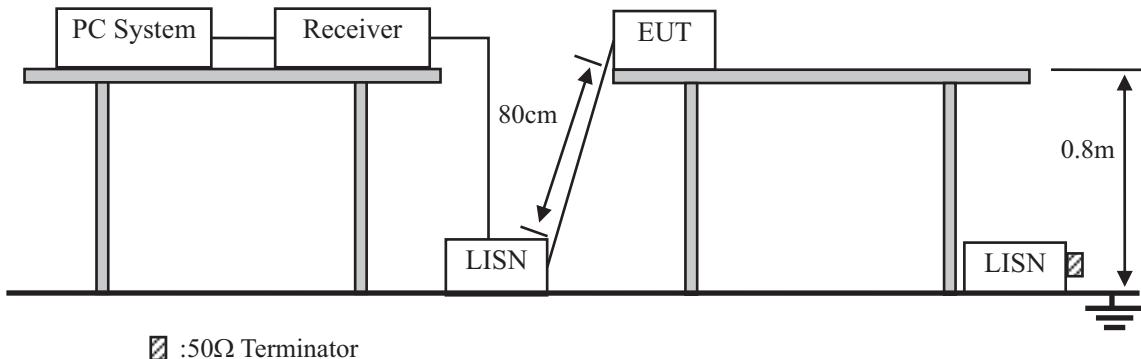


High



10. Power Line Conducted Emissions

10.1. Block Diagram of Test Setup



10.2. Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(µV)	Average Level dB(µV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

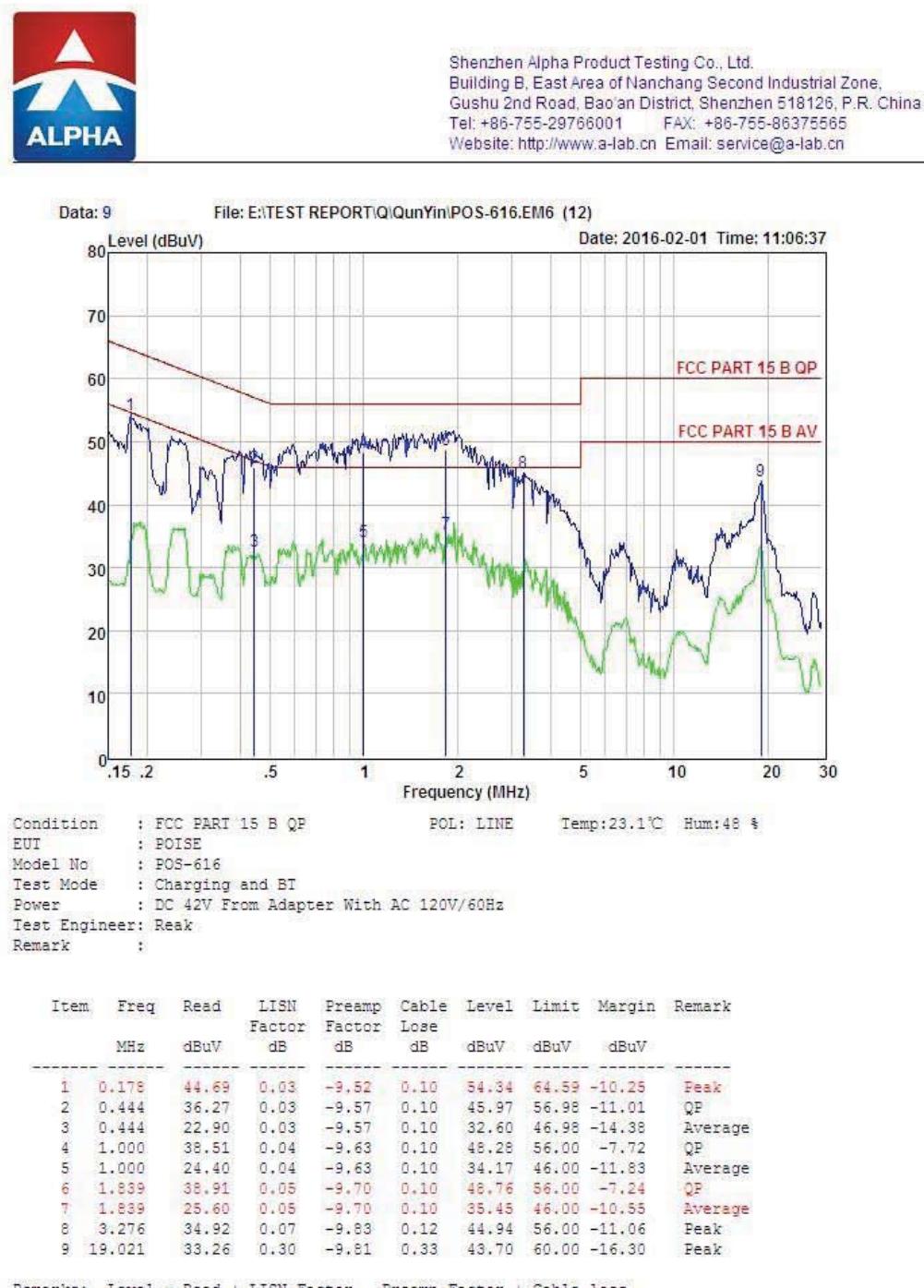
10.3. Test Procedure

- (1) The EUT was placed on a non-metallic table, 80cm above the ground plane.
- (2) Setup the EUT and simulator as shown in 10.1
- (3) The EUT Power connected to the power mains through a power adapter and a line impedance stabilization network (L.I.S.N1). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N2), this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4 :2014 on conducted Emission test.
- (4) The bandwidth of test receiver is set at 10KHz.
- (5) The frequency range from 150 KHz to 30MHz is checked.

10.4. Test Result

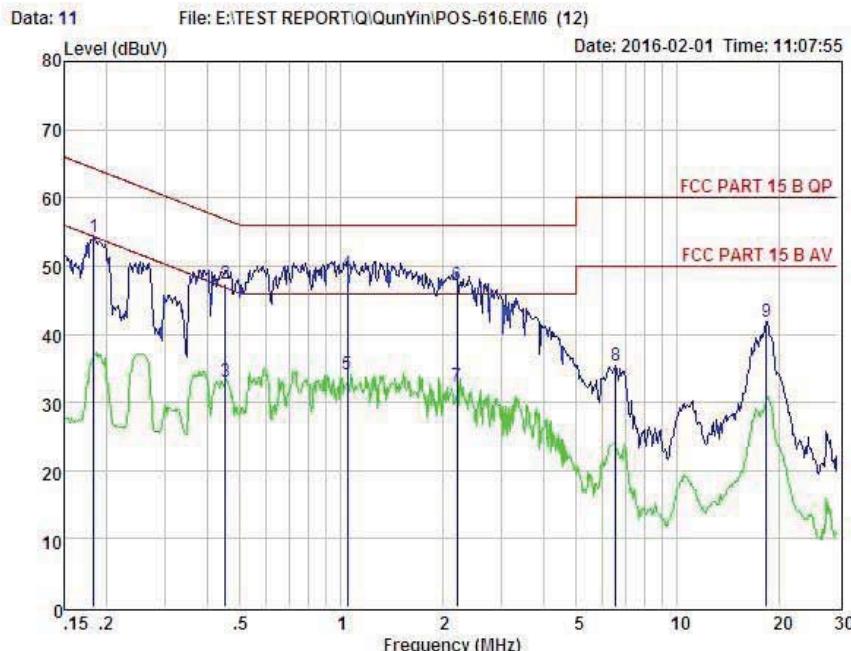
PASS. (See below detailed test data)

Note: If QP Result comply with AV limit, AV Result is deemed to comply with AV limit





Shenzhen Alpha Product Testing Co., Ltd.
 Building B, East Area of Nanchang Second Industrial Zone,
 Gushu 2nd Road, Bao'an District, Shenzhen 518126, P.R. China
 Tel: +86-755-29766001 FAX: +86-755-86375565
 Website: <http://www.a-lab.cn> Email: service@a-lab.cn



Condition : FCC PART 15 B QP POL: NEUTRAL Temp:23.1°C Hum:48 %
 EUI : POISE
 Model No : POS-616
 Test Mode : Charging and BT
 Power : DC 42V From Adapter With AC 120V/60Hz
 Test Engineer: Reak
 Remark :

Item	Freq	Read	LISN	Preamp	Cable	Level	Limit	Margin	Remark
			Factor	Factor	Lose	dBuV	dBuV	dBuV	
	MHz	dBuV	dB	dB	dB				
1	0.183	44.61	0.03	-9.52	0.10	54.26	64.33	-10.07	Peak
2	0.452	37.72	0.03	-9.58	0.10	47.43	56.85	-9.42	QP
3	0.452	23.40	0.03	-9.58	0.10	33.11	46.85	-13.74	Average
4	1.043	39.13	0.04	-9.63	0.10	48.90	56.00	-7.10	QP
5	1.043	24.30	0.04	-9.63	0.10	34.07	46.00	-11.93	Average
6	2.213	37.21	0.06	-9.73	0.10	47.10	56.00	-8.90	QP
7	2.213	22.51	0.06	-9.73	0.10	32.40	46.00	-13.60	Average
8	6.557	25.18	0.12	-9.97	0.15	35.42	60.00	-24.58	Peak
9	18.426	31.40	0.29	-9.82	0.32	41.83	60.00	-18.17	Peak

Remarks: Level = Read + LISN Factor - Preamp Factor + Cable loss

11. Antenna Requirements

11.1. Limit

For intentional device, according to FCC 47 CFR Section 15.203, 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

11.2. Result

The antennas used for this product are PCB Antenna for Bluetooth, no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 0dBi for Bluetooth.

12. Test setup photo

12.1. Photos of Radiated emission



12.2.Photos of Conducted Emission test

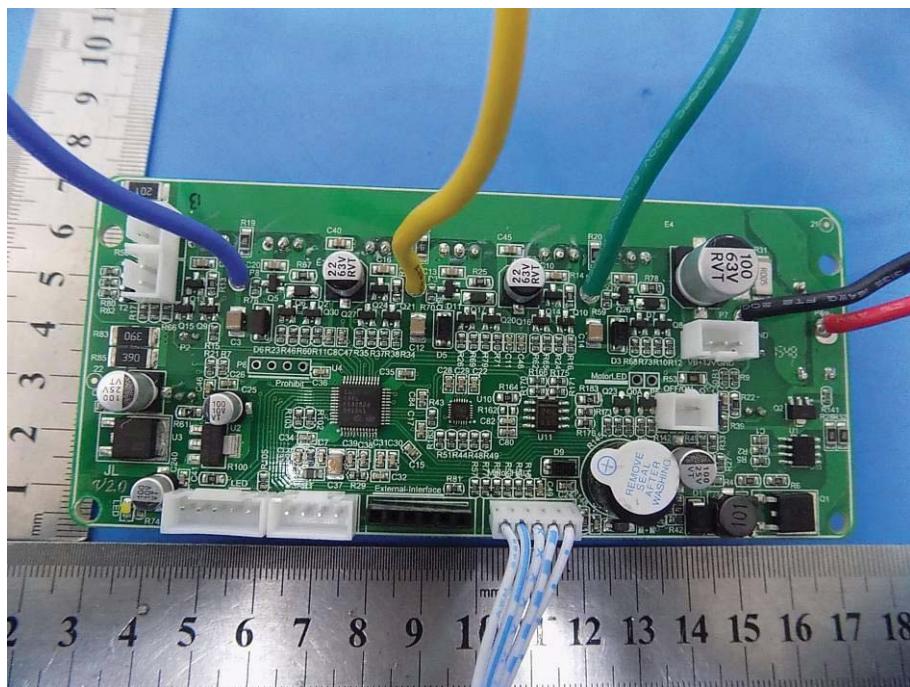
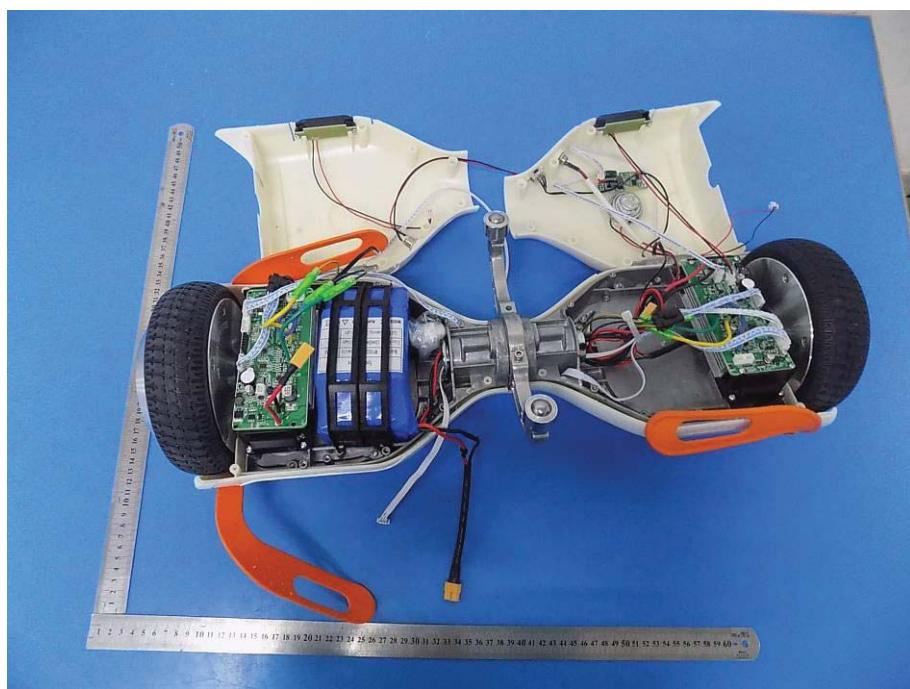


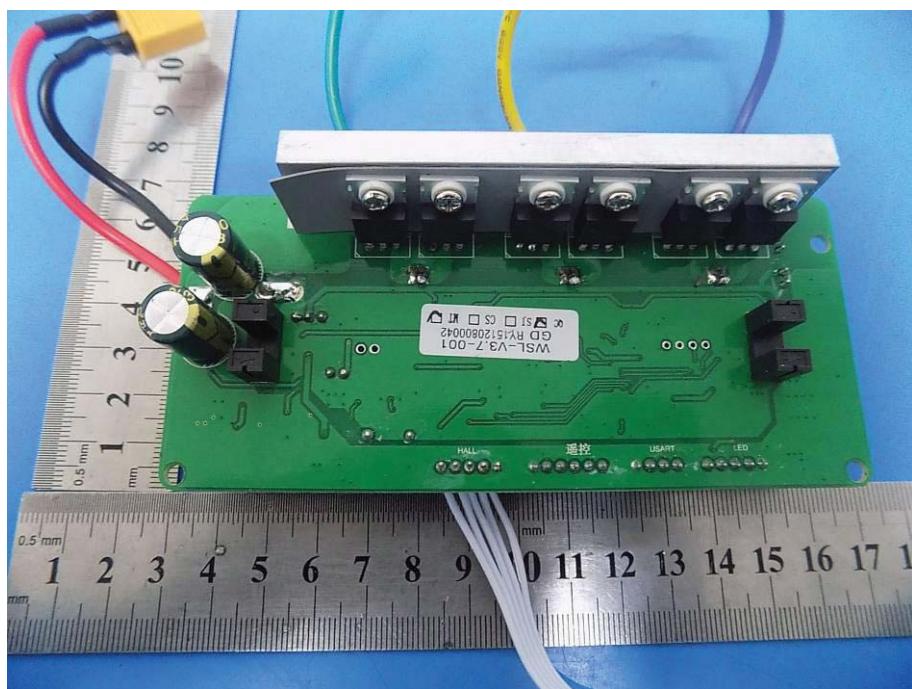
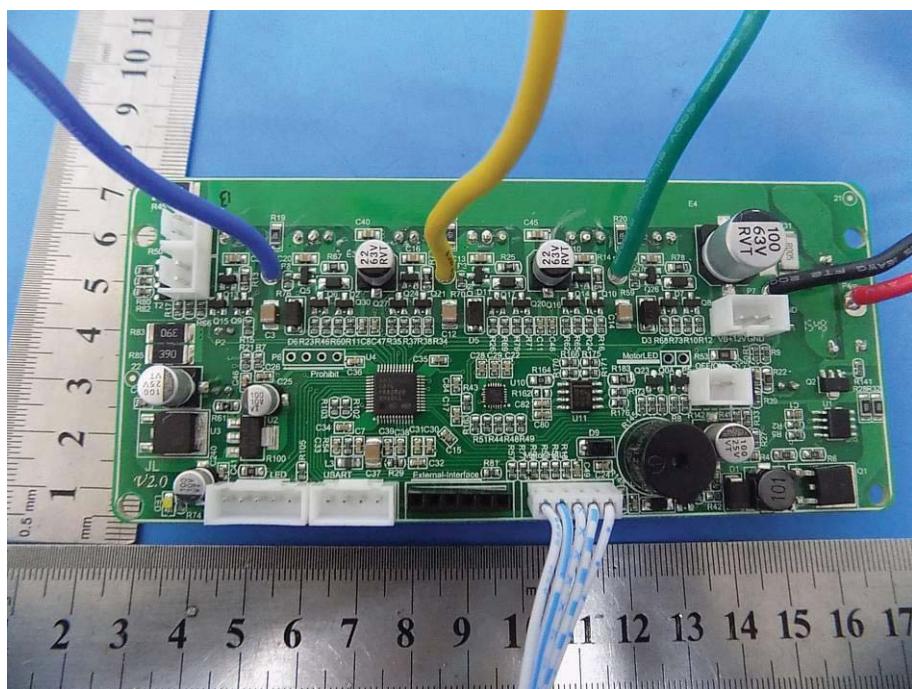
13. Photos of EUT

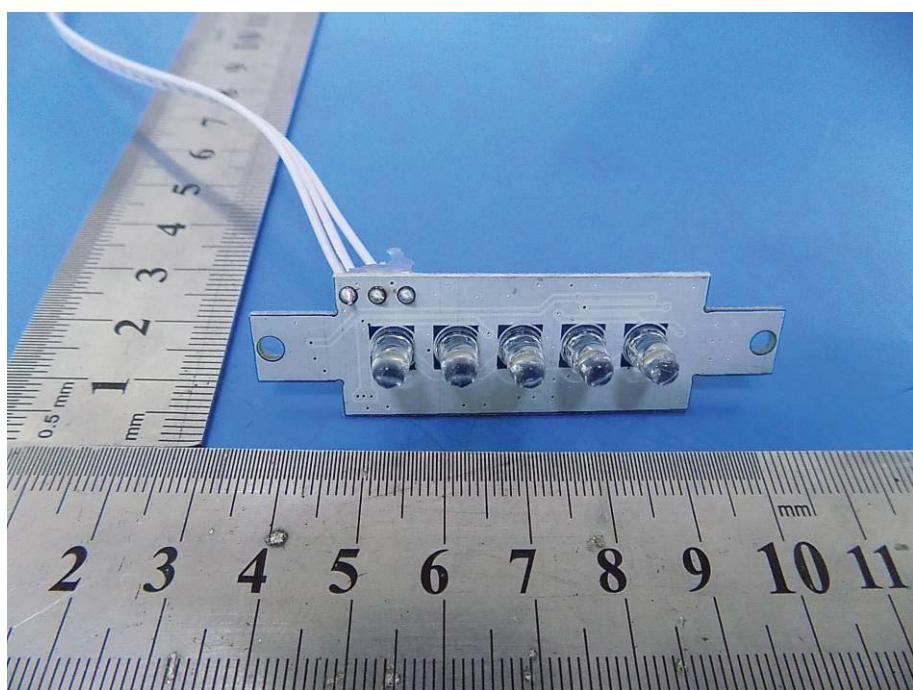
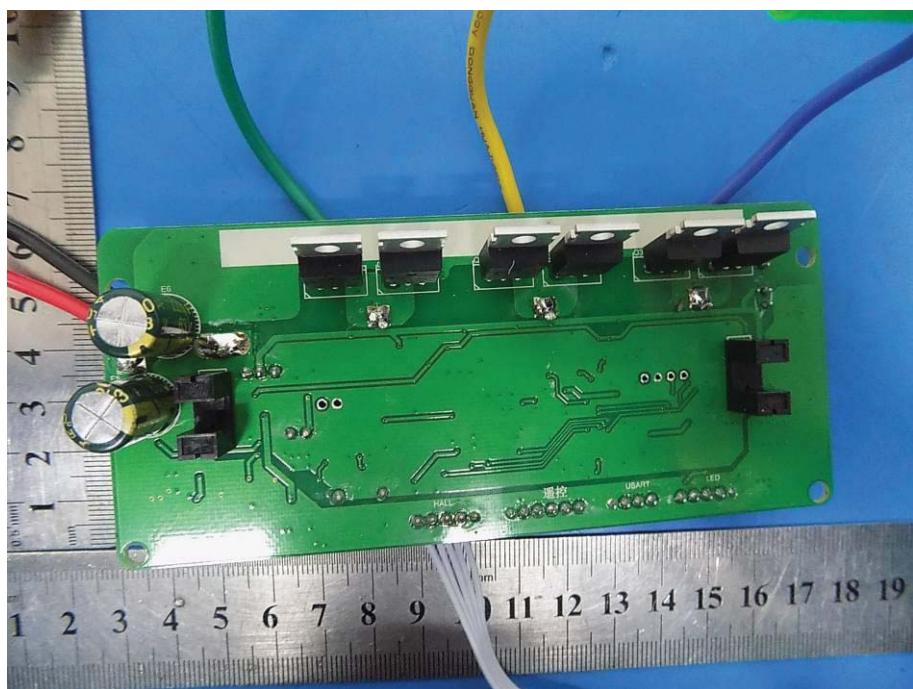


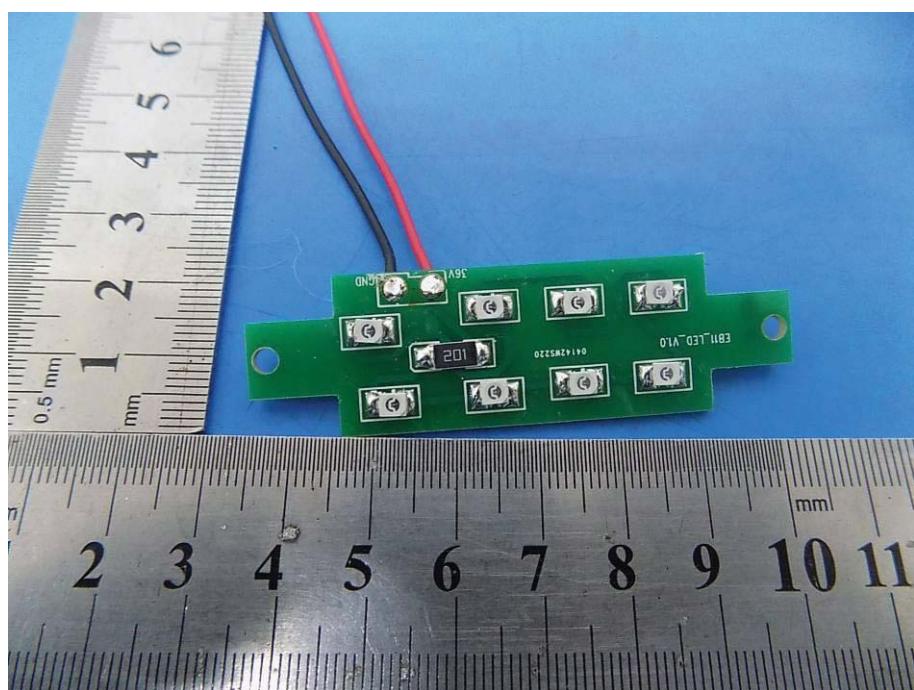
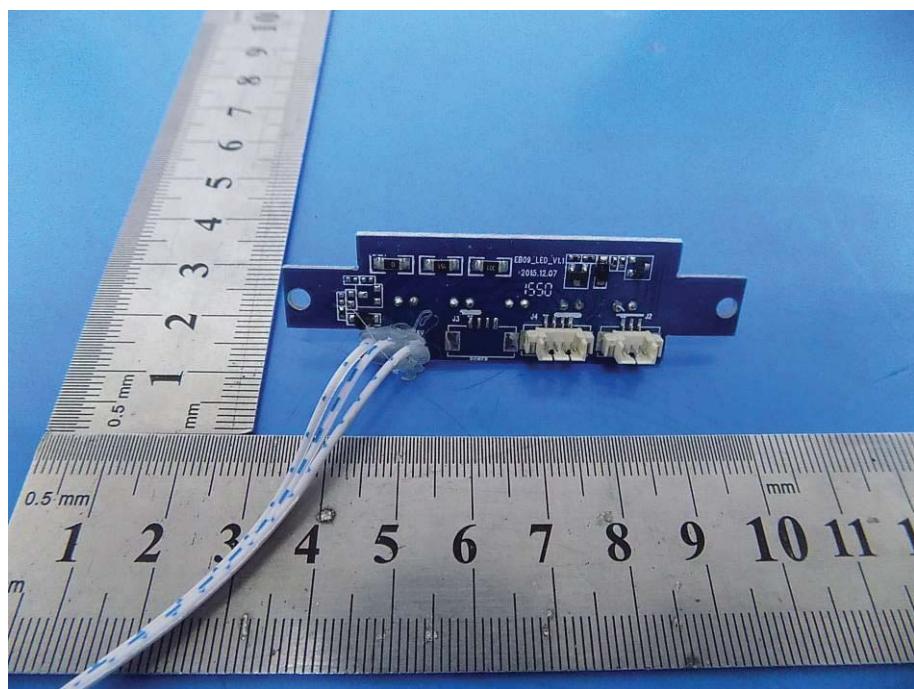


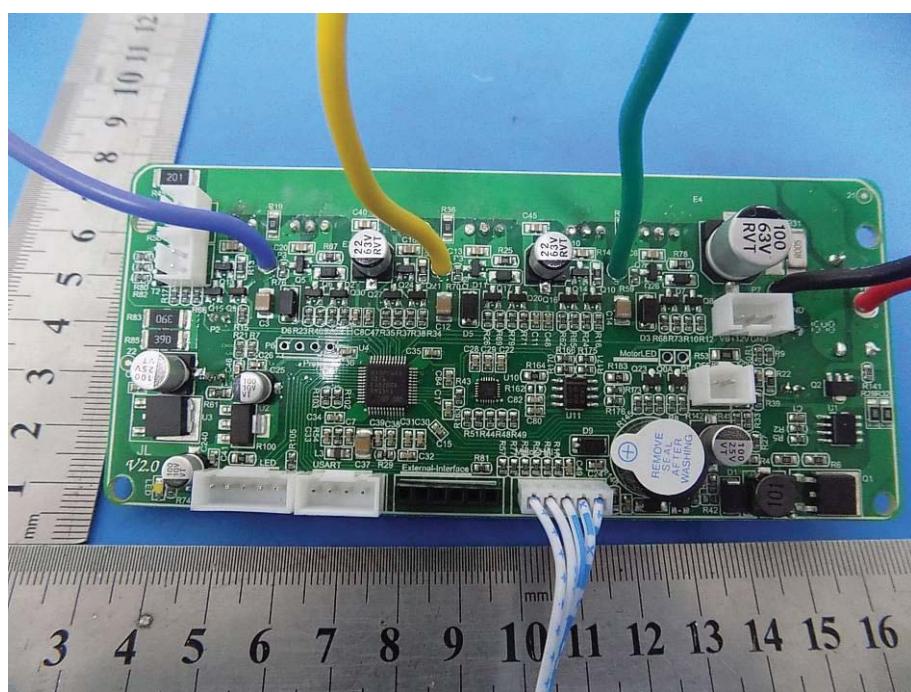
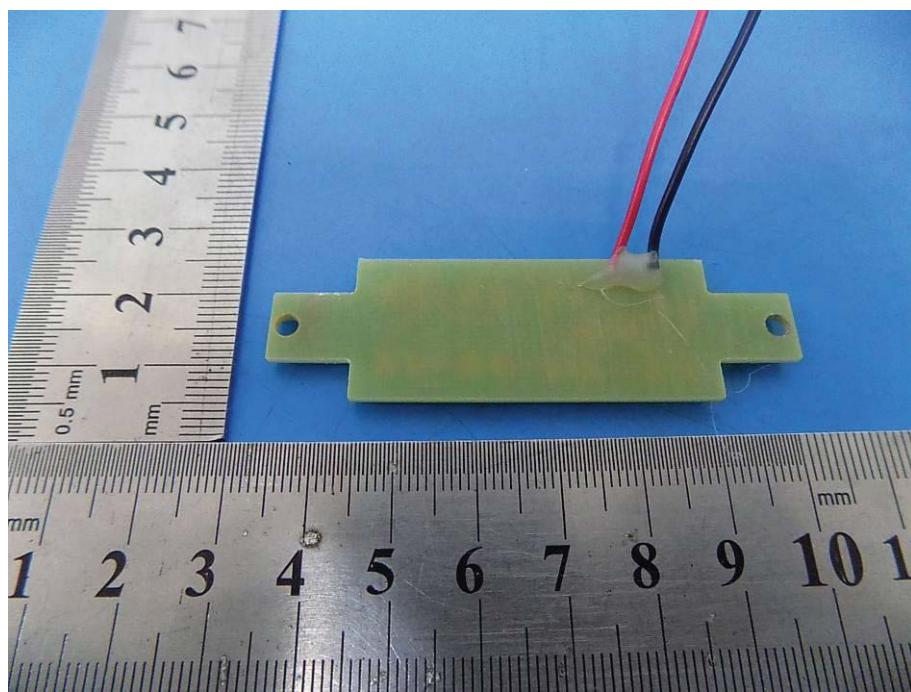


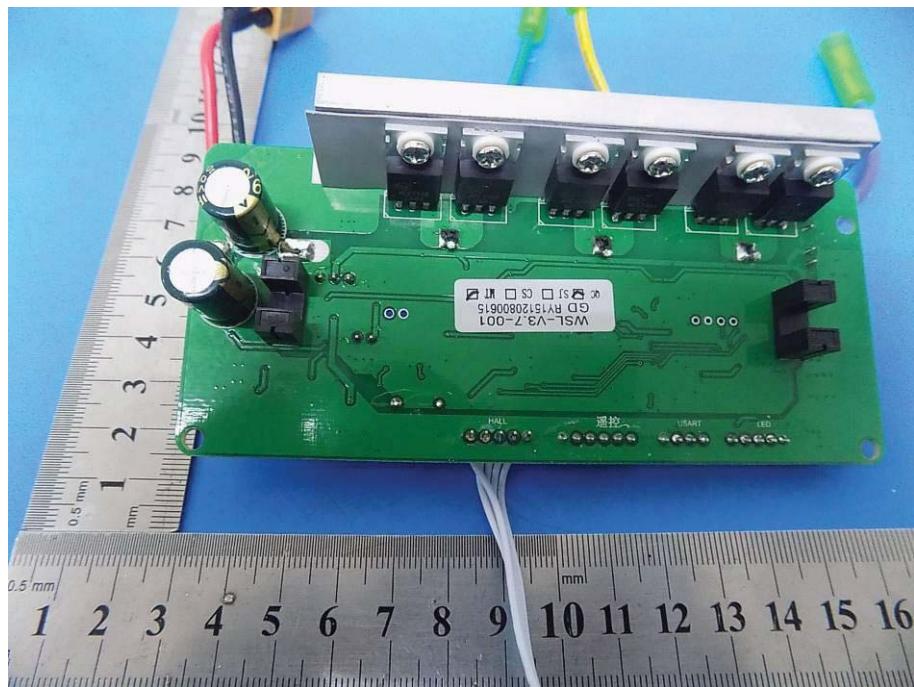
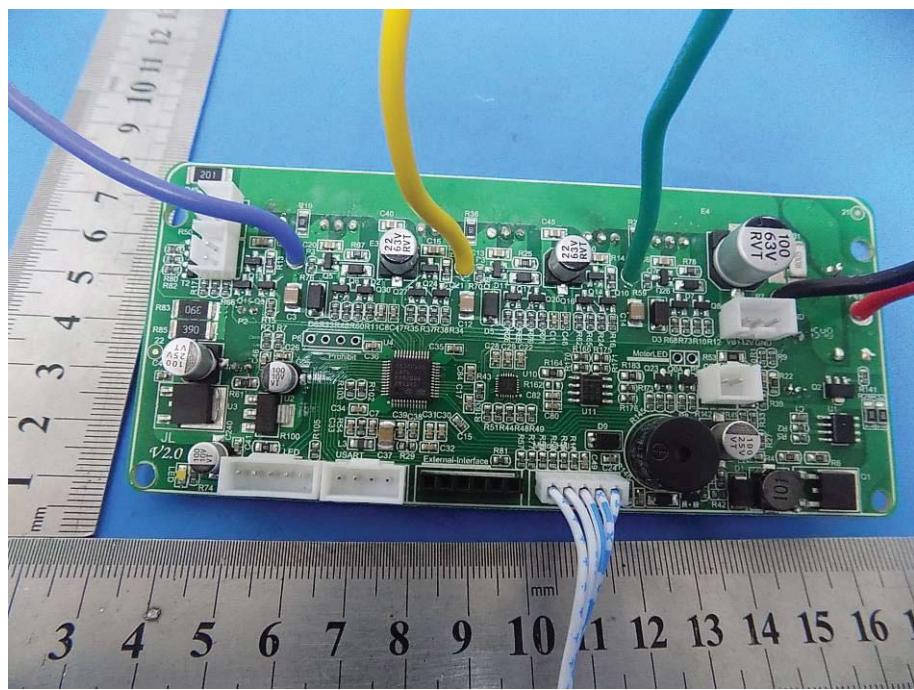


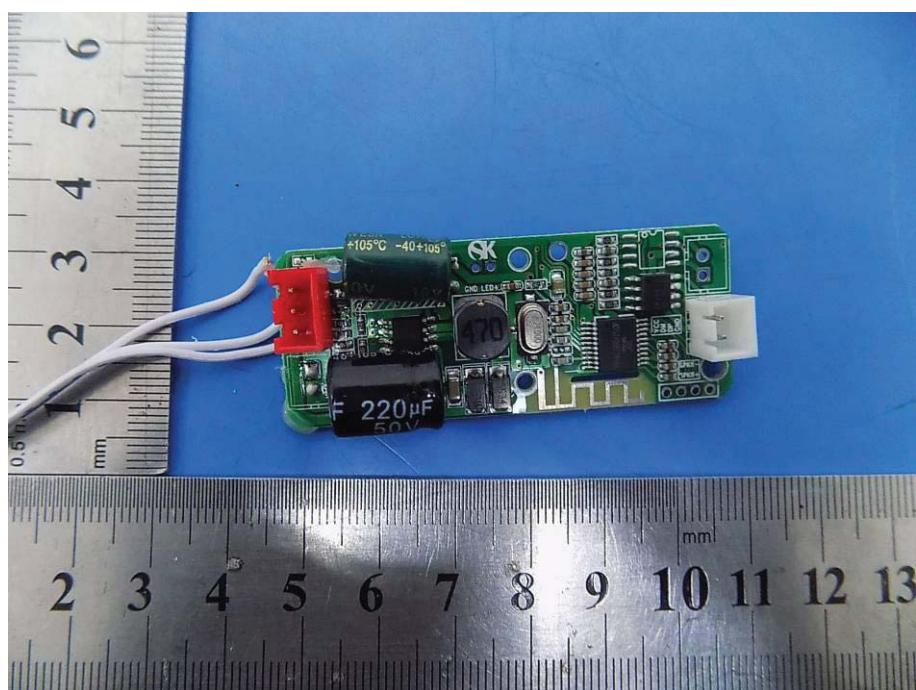
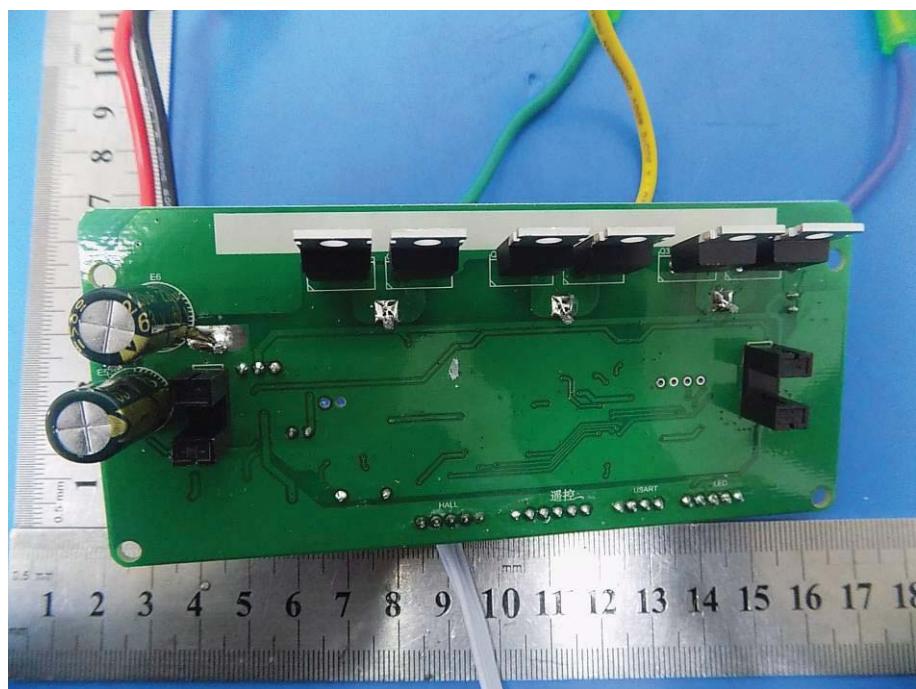


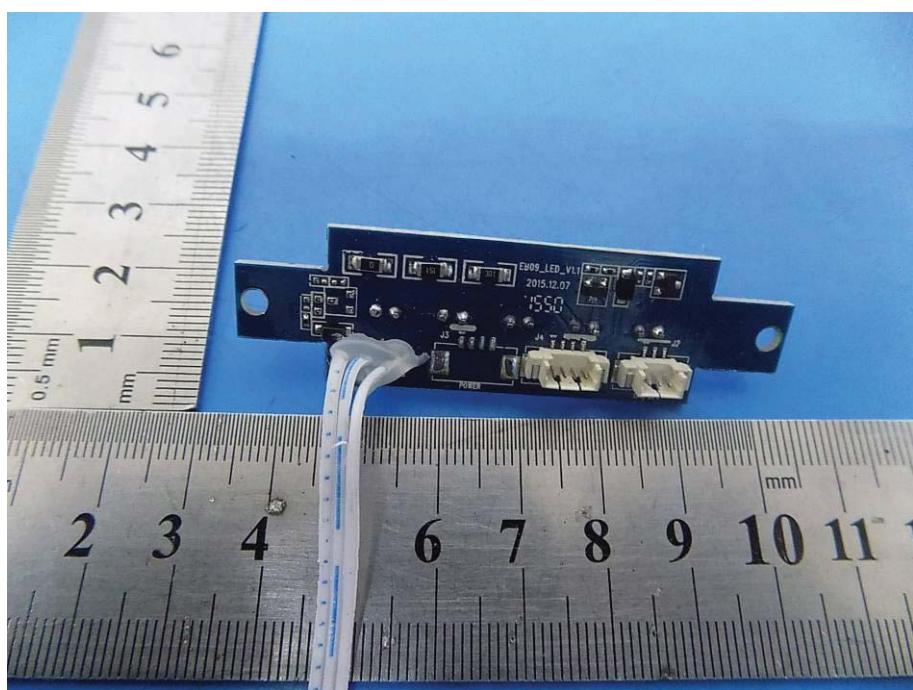
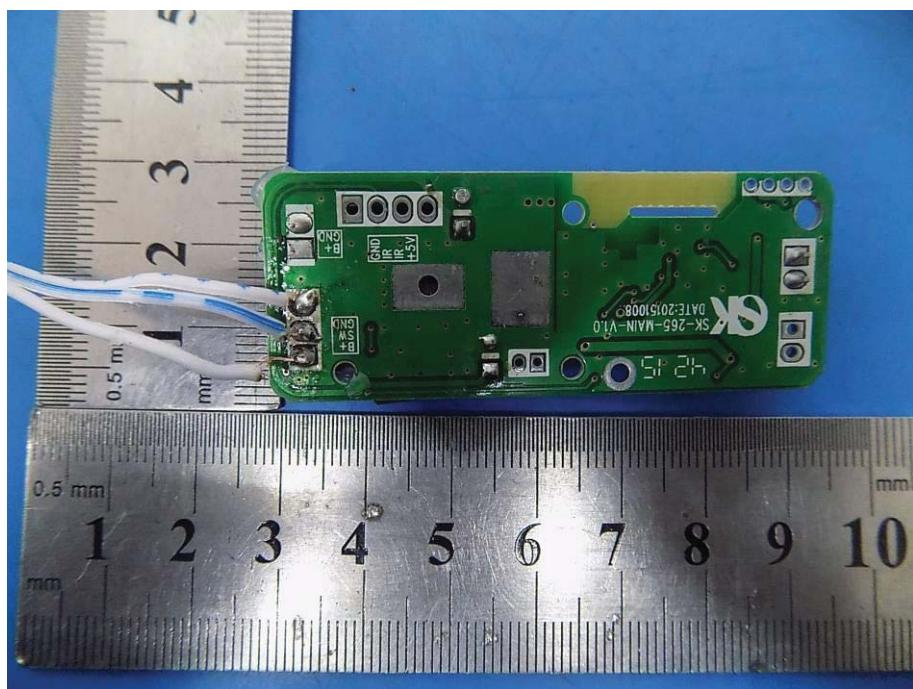


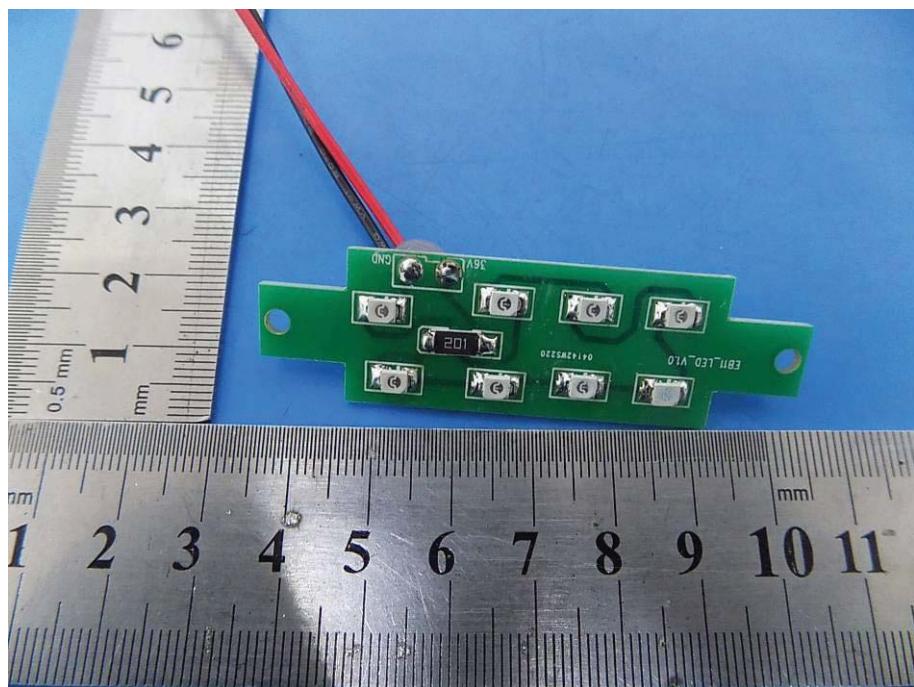
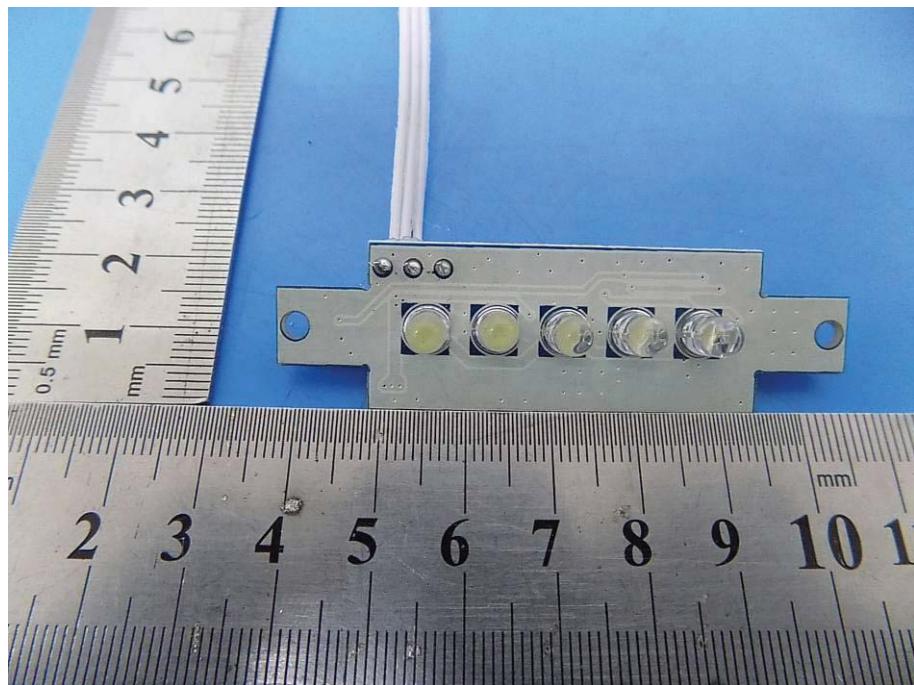


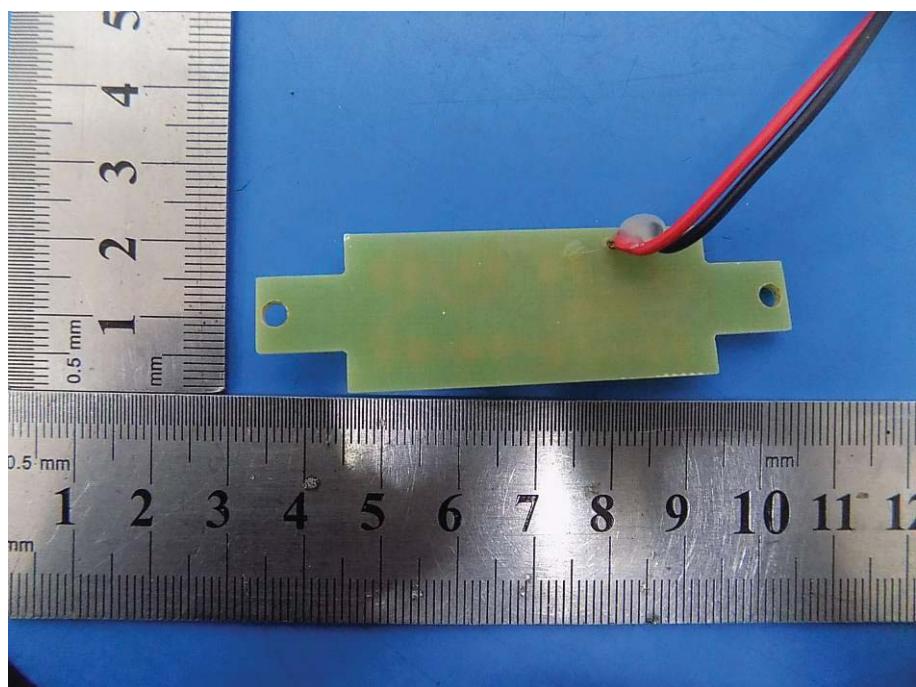












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