



FCC REPORT

Applicant: SIMLOK ELECTRONIC MANUFACTORY CO.,LTD

Address of Applicant: NO123, BLD 19, Packing area, China South City, pinghu town, shenzhen, china

Equipment Under Test (EUT)

Product Name: DRONE

Model No.: 7199-81

FCC ID: 2AFGK7199-81

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.249:2014

Date of sample receipt: September 23, 2015

Date of Test: September 24-29, 2015

Date of report issued: September 30, 2015

Test Result : PASS *

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

Authorized Signature:

Robinson Lo

Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the GTS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2 Version

Version No.	Date	Description
00	September 30, 2015	Original

Prepared By:

Edward Pan

Date:

September 30, 2015

Project Engineer

Check By:

Hank Yan

Date:

September 30, 2015

Reviewer

3 Contents

	Page
1 COVER PAGE.....	1
2 VERSION.....	2
3 CONTENTS.....	3
4 TEST SUMMARY.....	4
4.1 MEASUREMENT UNCERTAINTY.....	4
5 GENERAL INFORMATION.....	5
5.1 CLIENT INFORMATION.....	5
5.2 GENERAL DESCRIPTION OF EUT.....	5
5.3 TEST MODE.....	7
5.4 DESCRIPTION OF SUPPORT UNITS.....	7
5.5 TEST FACILITY.....	7
5.6 TEST LOCATION.....	7
5.7 OTHER INFORMATION REQUESTED BY THE CUSTOMER.....	7
6 TEST INSTRUMENTS LIST.....	8
7 TEST RESULTS AND MEASUREMENT DATA.....	9
7.1 ANTENNA REQUIREMENT.....	9
7.2 RADIATED EMISSION METHOD.....	10
7.2.1 <i>Field Strength of The Fundamental Signal</i>	12
7.2.2 <i>Spurious emissions</i>	13
7.2.3 <i>Bandedge emissions</i>	17
7.3 20dB OCCUPY BANDWIDTH.....	18
8 TEST SETUP PHOTO.....	20
9 EUT CONSTRUCTIONAL DETAILS.....	21

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.

Remark : Test according to ANSI C63.10:2013 and ANSI C63.4:2014

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	± 4.34dB	(1)
Radiated Emission	30MHz ~ 1000MHz	± 4.24dB	(1)
Radiated Emission	1GHz ~ 26.5GHz	± 4.68dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	± 3.45dB	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

5 General Information

5.1 Client Information

Applicant:	SIMLOK ELECTRONIC MANUFACTORY CO.,LTD
Address of Applicant:	NO123, BLD 19, Packing area, China South City, pinghu town, shenzhen, china
Manufacturer/Factory:	SIMLOK ELECTRONIC MANUFACTORY CO.,LTD
Address of Manufacturer/Factory:	NO123, BLD 19, Packing area, China South City, pinghu town, shenzhen, china

5.2 General Description of EUT

Product Name:	DRONE
Model No.:	7199-81
Operation Frequency:	2402MHz~2465MHz
Channel numbers:	64
Channel separation:	1MHz
Modulation type:	GFSK
Antenna Type:	Integral antenna
Antenna gain:	0dBi (declare by Applicant)
Power supply:	DC 4.5V(3*1.5V "AA" Battery)

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	2442MHz
The Highest channel	2465MHz

5.3 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode
<i>Remark: New battery is used during all test</i>	

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)	94.17	97.61	94.09

Final Test Mode:

According to ANSI C63.10 standards, the test results are both the “worst case” and “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 fully 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.

Room 301-309, 3th Floor, Block A, Huafeng Jinyuan Business Building, No. 300 Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, China

Tel: 0755-27798480

Fax: 0755-27798960

5.7 Other Information Requested by the Customer

None.

6 Test Instruments list

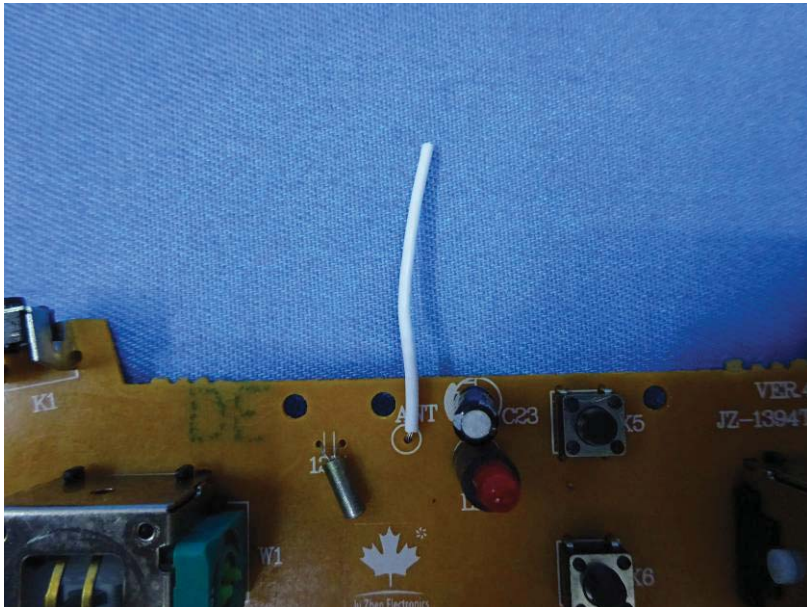
Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 28 2015	Mar. 27 2016
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	Spectrum Analyzer	Agilent	E4440A	GTS533	Jun. 30 2015	Jun. 29 2016
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Jun. 30 2015	Jun. 29 2016
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	Jun. 30 2015	Jun. 29 2016
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	Jun. 26 2015	Jun. 25 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. 28 2015	Mar. 27 2016
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 28 2015	Mar. 27 2016
11	Coaxial cable	GTS	N/A	GTS210	Mar. 28 2015	Mar. 27 2016
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 28 2015	Mar. 27 2016
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	Jun. 30 2015	Jun. 29 2016
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	Jun. 30 2015	Jun. 29 2016
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	Jun. 26 2015	Jun. 25 2016
16	Band filter	Amindeon	82346	GTS219	Mar. 28 2015	Mar. 27 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	Jun. 30 2015	Jun. 29 2016
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	Jun. 30 2015	Jun. 29 2016
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	Jun. 30 2015	Jun. 29 2016
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	Jun. 30 2015	Jun. 29 2016
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	Jun. 30 2015	Jun. 29 2016
6	Coaxial Cable	GTS	N/A	GTS227	Jun. 30 2015	Jun. 29 2016
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A

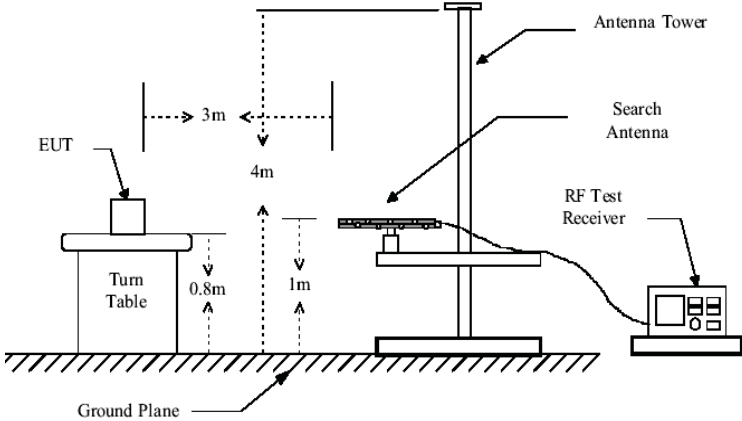
General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Barometer	ChangChun	DYM3	GTS257	July 07 2015	July 06 2016

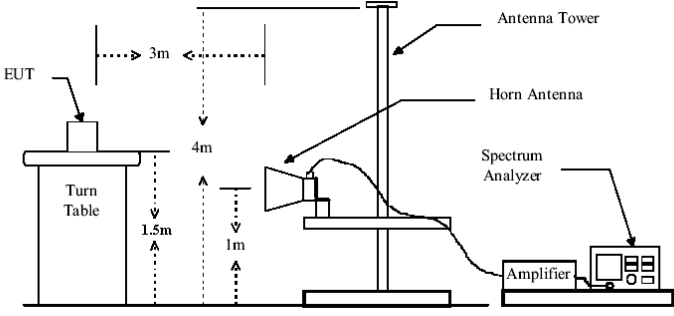
7 Test results and Measurement Data

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.	
EUT Antenna:	
<p><i>The antenna is Integral antenna, the best case gain of the antenna is 0dBi</i></p> 	

7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	30MHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
Peak		1MHz	10Hz	Average Value	
Limit: (Field strength of the fundamental signal)	Frequency	Limit (dBuV/m @3m)		Remark	
	2400MHz-2483.5MHz	94.00		Average Value	
		114.00		Peak Value	
Limit: (Spurious Emissions)	Frequency	Limit (dBuV/m @3m)		Remark	
	30MHz-88MHz	40.00		Quasi-peak Value	
	88MHz-216MHz	43.50		Quasi-peak Value	
	216MHz-960MHz	46.00		Quasi-peak Value	
	960MHz-1GHz	54.00		Quasi-peak Value	
	Above 1GHz	54.00		Average Value	
74.00		Peak Value			
Limit: (band edge)	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.				
Test setup:	<p>Below 1GHz</p>  <p>Above 1GHz</p>				

	 <p>The diagram illustrates the test setup. An EUT (Electromagnetic Under Test) is placed on a turn table that is 1.5m high. The turn table is positioned 3m away from an antenna tower. The antenna tower is a variable-height structure with a horn antenna mounted on top. The antenna height is varied from 1m to 4m above the ground. A spectrum analyzer and an amplifier are connected to the antenna tower to measure the field strength.</p>
<p>Test Procedure:</p>	<ol style="list-style-type: none"> 1. The EUT was placed on the top of a rotating table 1.5m 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 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.
<p>Test Instruments:</p>	<p>Refer to section 6.0 for details</p>
<p>Test mode:</p>	<p>Refer to section 5.3 for details</p>
<p>Test results:</p>	<p>Pass</p>

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
2402.00	90.20	27.58	5.39	30.18	92.99	114.00	-21.01	Vertical
2402.00	87.93	27.58	5.39	30.18	90.72	114.00	-23.28	Horizontal
2442.00	94.69	27.55	5.43	30.06	97.61	114.00	-16.39	Vertical
2442.00	91.98	27.55	5.43	30.06	94.90	114.00	-19.11	Horizontal
2465.00	95.50	27.49	5.45	33.94	94.50	114.00	-19.50	Vertical
2465.00	92.69	27.49	5.45	33.94	91.69	114.00	-22.31	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
2402.00	79.58	27.58	5.39	30.18	82.37	94.00	-11.63	Vertical
2402.00	77.32	27.58	5.39	30.18	80.11	94.00	-13.89	Horizontal
2442.00	85.59	27.55	5.43	30.06	88.51	94.00	-5.49	Vertical
2442.00	82.02	27.55	5.43	30.06	84.94	94.00	-9.06	Horizontal
2465.00	84.86	27.49	5.45	33.94	83.86	94.00	-10.14	Vertical
2465.00	83.01	27.49	5.45	33.94	82.01	94.00	-11.99	Horizontal

Remark: RBW 3MHz, VBW 10MHz , peak detector for PK value, RBW 3MHz, VBW 10MHz AV detector for AV value

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
31.62	49.28	14.32	0.57	30.09	34.08	40.00	-5.92	Vertical
91.18	47.32	14.16	1.12	29.74	32.86	43.50	-10.64	Vertical
241.68	50.64	14.09	2.08	29.57	37.24	46.00	-8.76	Vertical
422.06	45.28	17.48	2.96	29.45	36.27	46.00	-9.73	Vertical
556.77	41.71	19.67	3.55	29.30	35.63	46.00	-10.37	Vertical
205.68	48.99	12.74	1.88	29.26	34.35	43.50	-9.15	Vertical
78.14	44.12	10.31	1.01	29.81	25.63	40.00	-14.37	Horizontal
125.89	50.26	11.51	1.41	29.53	33.65	43.50	-9.85	Horizontal
189.07	50.54	12.48	1.78	29.24	35.56	43.50	-7.94	Horizontal
252.95	49.75	14.06	2.14	29.66	36.29	46.00	-9.71	Horizontal
455.91	42.10	17.58	3.11	29.38	33.41	46.00	-12.59	Horizontal
771.45	41.78	21.72	4.36	29.20	38.66	46.00	-7.34	Horizontal

■ Above 1GHz

Test channel:	Lowest channel
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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
4804.00	33.29	31.78	8.60	32.09	41.58	74.00	-32.42	Vertical
7206.00	29.17	36.15	11.65	32.00	44.97	74.00	-29.03	Vertical
9608.00	29.10	37.95	14.14	31.62	49.57	74.00	-24.43	Vertical
12010.00	*					74.00		Vertical
14412.00	*					74.00		Vertical
4804.00	36.76	31.78	8.60	32.09	45.05	74.00	-28.95	Horizontal
7206.00	30.57	36.15	11.65	32.00	46.37	74.00	-27.63	Horizontal
9608.00	28.14	37.95	14.14	31.62	48.61	74.00	-25.39	Horizontal
12010.00	*					74.00		Horizontal
14412.00	*					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
4804.00	22.87	31.78	8.60	32.09	31.16	54.00	-22.84	Vertical
7206.00	18.31	36.15	11.65	32.00	34.11	54.00	-19.89	Vertical
9608.00	17.64	37.95	14.14	31.62	38.11	54.00	-15.89	Vertical
12010.00	*					54.00		Vertical
14412.00	*					54.00		Vertical
4804.00	26.65	31.78	8.60	32.09	34.94	54.00	-19.06	Horizontal
7206.00	20.22	36.15	11.65	32.00	36.02	54.00	-17.98	Horizontal
9608.00	17.04	37.95	14.14	31.62	37.51	54.00	-16.49	Horizontal
12010.00	*					54.00		Horizontal
14412.00	*					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.

Test channel:	Middle channel
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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
4884.00	37.62	31.85	8.67	32.12	46.02	74.00	-27.98	Vertical
7326.00	32.04	36.37	11.72	31.89	48.24	74.00	-25.76	Vertical
9768.00	31.65	38.35	14.25	31.62	52.63	74.00	-21.37	Vertical
12210.00	*					74.00		Vertical
14652.00	*					74.00		Vertical
4884.00	41.97	31.85	8.67	32.12	50.37	74.00	-23.63	Horizontal
7326.00	33.82	36.37	11.72	31.89	50.02	74.00	-23.98	Horizontal
9768.00	31.11	38.35	14.25	31.62	52.09	74.00	-21.91	Horizontal
12210.00	*					74.00		Horizontal
14652.00	*					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
4884.00	26.39	31.85	8.67	32.12	34.79	54.00	-19.21	Vertical
7326.00	20.70	36.37	11.72	31.89	36.90	54.00	-17.10	Vertical
9768.00	19.76	38.35	14.25	31.62	40.74	54.00	-13.26	Vertical
12210.00	*					54.00		Vertical
14652.00	*					54.00		Vertical
4884.00	30.65	31.85	8.67	32.12	39.05	54.00	-14.95	Horizontal
7326.00	22.89	36.37	11.72	31.89	39.09	54.00	-14.91	Horizontal
9768.00	19.51	38.35	14.25	31.62	40.49	54.00	-13.51	Horizontal
12210.00	*					54.00		Horizontal
14652.00	*					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.

Test channel:	Highest channel
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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
4930.00	35.61	31.90	8.70	32.15	44.06	74.00	-29.94	Vertical
7395.00	30.71	36.52	11.76	31.83	47.16	74.00	-26.84	Vertical
9860.00	30.47	38.62	14.33	31.77	51.65	74.00	-22.35	Vertical
12325.00	*					74.00		Vertical
14790.00	*					74.00		Vertical
4930.00	39.55	31.90	8.70	32.15	48.00	74.00	-26.00	Horizontal
7395.00	32.31	36.52	11.76	31.83	48.76	74.00	-25.24	Horizontal
9860.00	29.73	38.62	14.33	31.77	50.91	74.00	-23.09	Horizontal
12325.00	*					74.00		Horizontal
14790.00	*					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
4930.00	24.78	31.90	8.70	32.15	33.23	54.00	-20.77	Vertical
7395.00	19.61	36.52	11.76	31.83	36.06	54.00	-17.94	Vertical
9860.00	18.79	38.62	14.33	31.77	39.97	54.00	-14.03	Vertical
12325.00	*					54.00		Vertical
14790.00	*					54.00		Vertical
4930.00	28.83	31.90	8.70	32.15	37.28	54.00	-16.72	Horizontal
7395.00	21.67	36.52	11.76	31.83	38.12	54.00	-15.88	Horizontal
9860.00	18.38	38.62	14.33	31.77	39.56	54.00	-14.44	Horizontal
12325.00	*					54.00		Horizontal
14790.00	*					54.00		Horizontal

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier 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
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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	40.33	27.59	5.38	30.18	43.12	74.00	-30.88	Horizontal
2400.00	56.75	27.58	5.39	30.18	59.54	74.00	-14.46	Horizontal
2390.00	40.63	27.59	5.38	30.18	43.42	74.00	-30.58	Vertical
2400.00	58.52	27.58	5.39	30.18	61.31	74.00	-12.70	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	31.46	27.59	5.38	30.18	34.25	54.00	-19.76	Horizontal
2400.00	42.54	27.58	5.39	30.18	45.33	54.00	-8.67	Horizontal
2390.00	31.22	27.59	5.38	30.18	34.01	54.00	-19.99	Vertical
2400.00	43.95	27.58	5.39	30.18	46.74	54.00	-7.26	Vertical

Test channel:	Highest channel
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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	42.13	27.53	5.47	29.93	45.20	74.00	-28.80	Horizontal
2500.00	41.79	27.55	5.49	29.93	44.90	74.00	-29.10	Horizontal
2483.50	42.55	27.53	5.47	29.93	45.62	74.00	-28.38	Vertical
2500.00	42.54	27.55	5.49	29.93	45.65	74.00	-28.35	Vertical

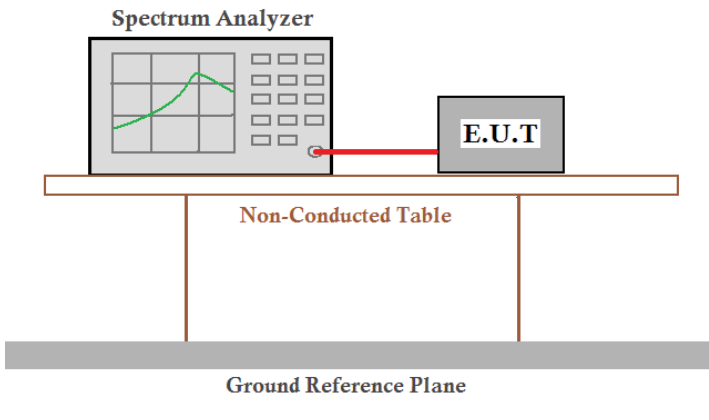
Average value:

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
2483.50	34.25	27.53	5.47	29.93	37.32	54.00	-16.68	Horizontal
2500.00	32.62	27.55	5.49	29.93	35.73	54.00	-18.27	Horizontal
2483.50	35.25	27.53	5.47	29.93	38.32	54.00	-15.68	Vertical
2500.00	32.33	27.55	5.49	29.93	35.44	54.00	-18.56	Vertical

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor

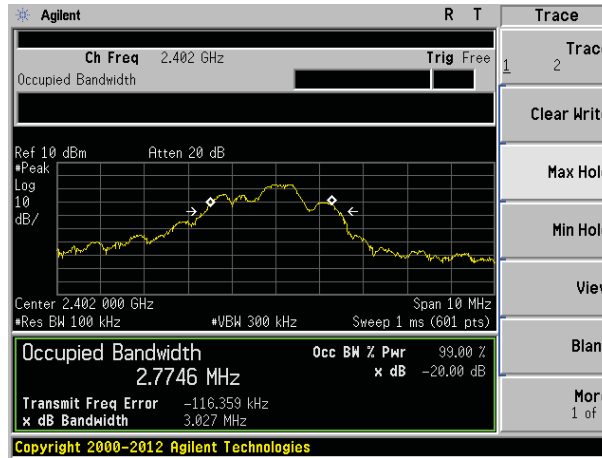
7.3 20dB Occupy Bandwidth

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:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both are placed on a Non-Conducted Table, which is supported by a Ground Reference Plane.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

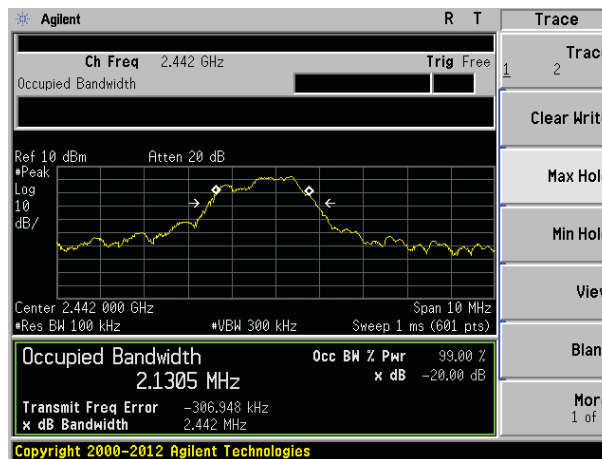
Measurement Data

Test channel	20dB bandwidth(MHz)	Result
Lowest	3.027	Pass
Middle	2.442	Pass
Highest	2.767	Pass

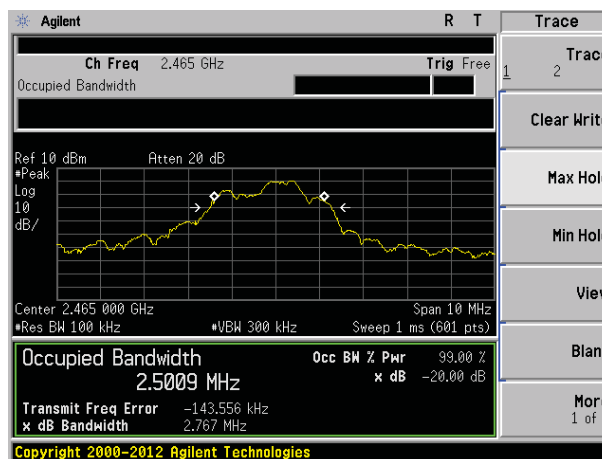
Test plot as follows:



Lowest channel



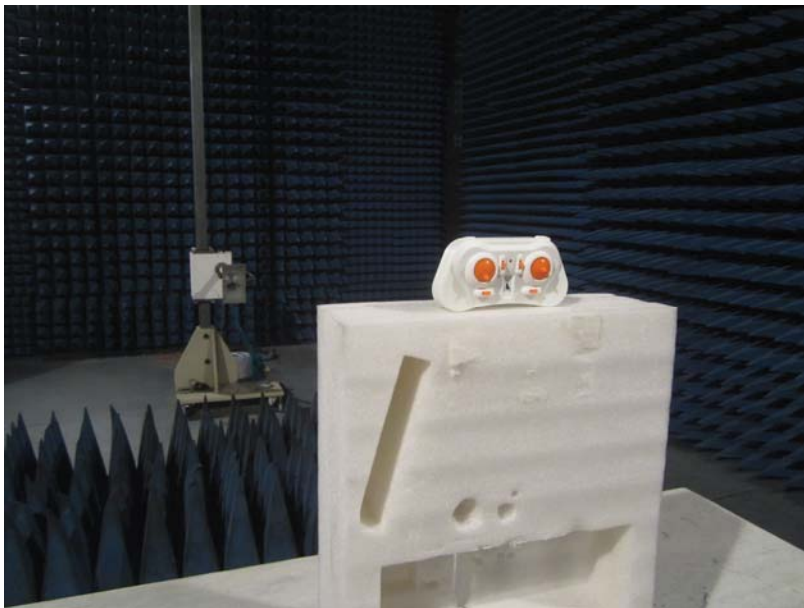
Middle channel



Highest channel

8 Test Setup Photo

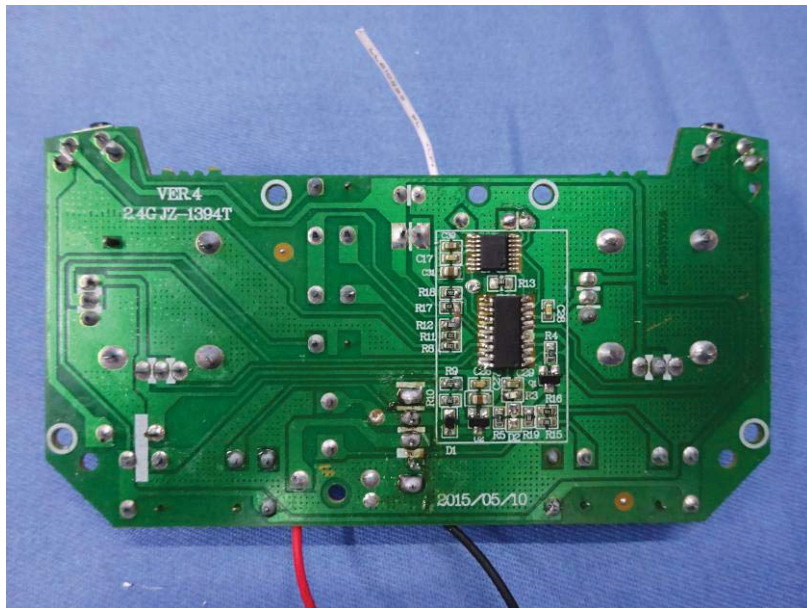
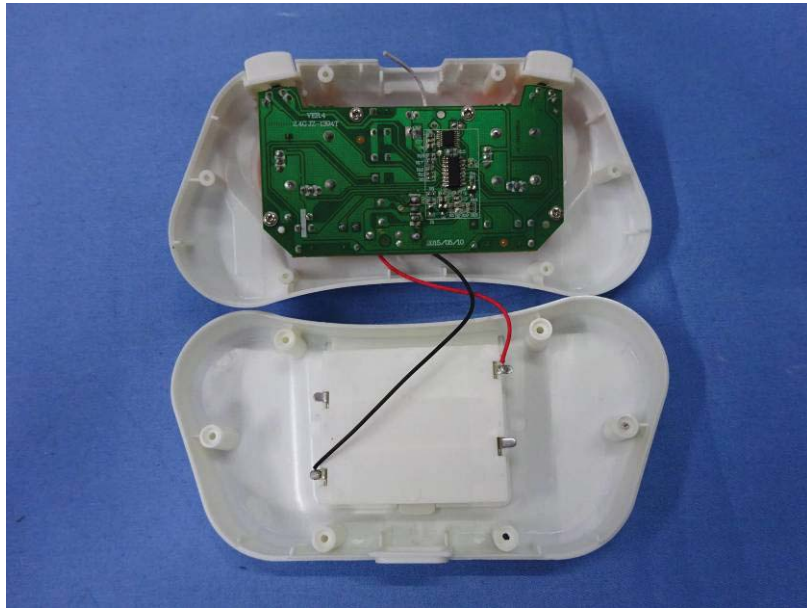
Radiated Emission

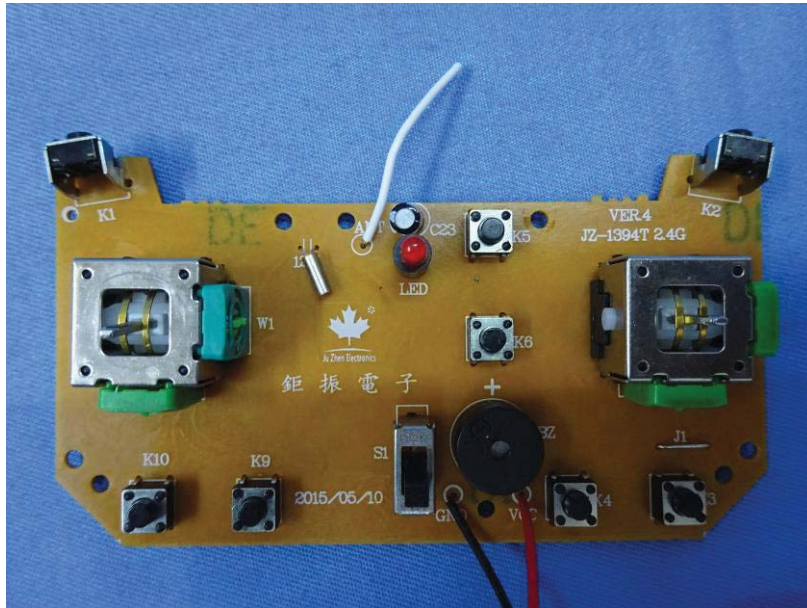


9 EUT Constructional Details









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