



FCC REPORT

Applicant: MegaGain International Ltd.

Address of Applicant: Rm 1908, Greenfield Tower, Concordia Plaza, 1 Science Museum Road, T.S.T. East. Kowloon, Hong Kong, China

Equipment Under Test (EUT)

Product Name: The Incredible RC Car

Model No.: 1801-COL00378 (5217-W), 1801-TDS02022 (5166-W)

FCC ID: SIP-5166R

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

Date of sample receipt: January 18, 2018

Date of Test: January 19-23, 2018

Date of report issued: January 24, 2018

Test Result : PASS *

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

Authorized Signature:

Robinson Lo

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	January 24, 2018	Original

Prepared By:

Bill. Yuan

Date:

January 24, 2018

Project Engineer

Check By:

Andy. Wu

Date:

January 24, 2018

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.

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

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	$\pm 4.34\text{dB}$	(1)
Radiated Emission	30MHz ~ 1000MHz	$\pm 4.24\text{dB}$	(1)
Radiated Emission	1GHz ~ 26.5GHz	$\pm 4.68\text{dB}$	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	$\pm 3.45\text{dB}$	(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 General Description of EUT

Product Name:	The Incredible RC Car
Model No.:	1801-COL00378 (5217-W), 1801-TDS02022 (5166-W)
Test Model No:	1801-COL00378 (5217-W)
<i>Remark: All above models are identical in the same PCB layout, interior structure and electrical circuits. The differences are shape and model name for commercial purpose.</i>	
Serial No.:	0011575166
Test sample(s) ID:	GTS201801000126-2
Sample(s) Status	Engineer sample
Hardware:	KCE#5166/5127TX-A2
Software:	5166A00
Operation Frequency:	2405MHz~2475MHz
Channel numbers:	3
Modulation type:	GFSK
Antenna Type:	Integral antenna
Antenna gain:	0 dBi(declare by Applicant)
Power supply:	Battery: DC 3V(1.5V*2 SIZE"AA")

Operation Frequency each of channel	
Channel	Frequency
1	2405MHz
2	2440MHz
3	2475MHz

5.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode.
<i>Remark: During the test, the dutycycle >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.</i>	

Pre-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)	86.26	86.71	86.45

5.3 Description of Support Units

None

5.4 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, January 08, 2018.

- **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, August 15, 2016

5.5 Test Location

All tests were performed at:
Global United Technology Services Co., Ltd. No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 Tel: 0755-27798480 Fax: 0755-27798960

5.6 Additional instructions

Engineer sample (Used for fixed frequency test)

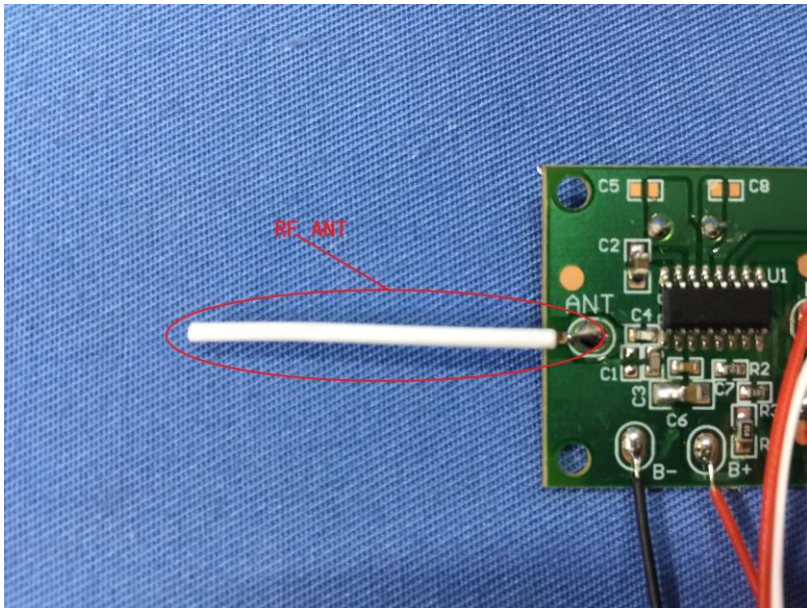
6 Test Instruments list

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	July 03 2015	July 02 2020
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	June 28 2017	June 27 2018
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June 28 2017	June 27 2018
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June 28 2017	June 27 2018
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 28 2017	June 27 2018
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	June 28 2017	June 27 2018
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
9	Coaxial Cable	GTS	N/A	GTS213	June 28 2017	June 27 2018
10	Coaxial Cable	GTS	N/A	GTS211	June 28 2017	June 27 2018
11	Coaxial cable	GTS	N/A	GTS210	June 28 2017	June 27 2018
12	Coaxial Cable	GTS	N/A	GTS212	June 28 2017	June 27 2018
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June 28 2017	June 27 2018
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	June 28 2017	June 27 2018
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 28 2017	June 27 2018
16	Band filter	Amindeon	82346	GTS219	June 28 2017	June 27 2018
17	Power Meter	Anritsu	ML2495A	GTS540	June 28 2017	June 27 2018
18	Power Sensor	Anritsu	MA2411B	GTS541	June 28 2017	June 27 2018

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	June 28 2017	June 27 2018

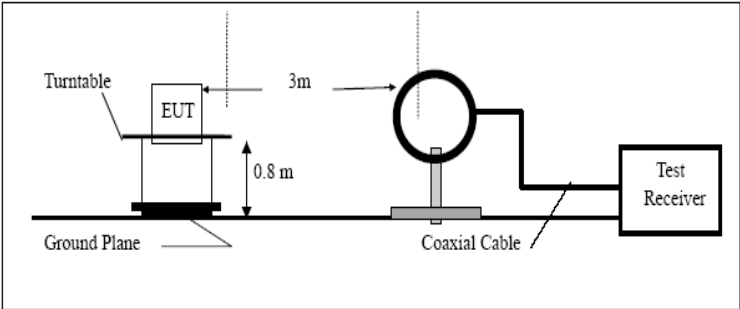
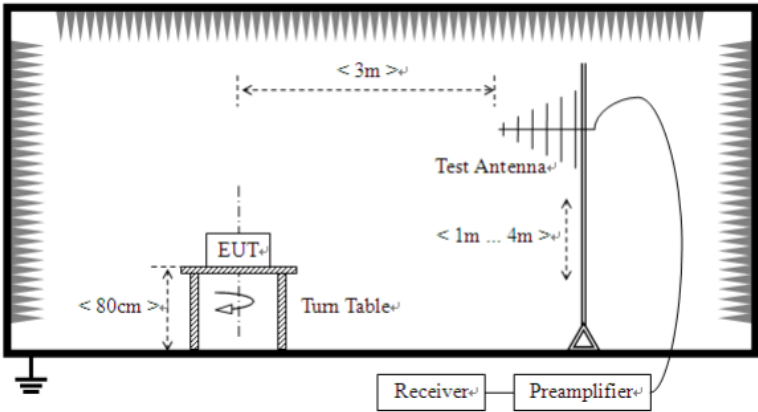
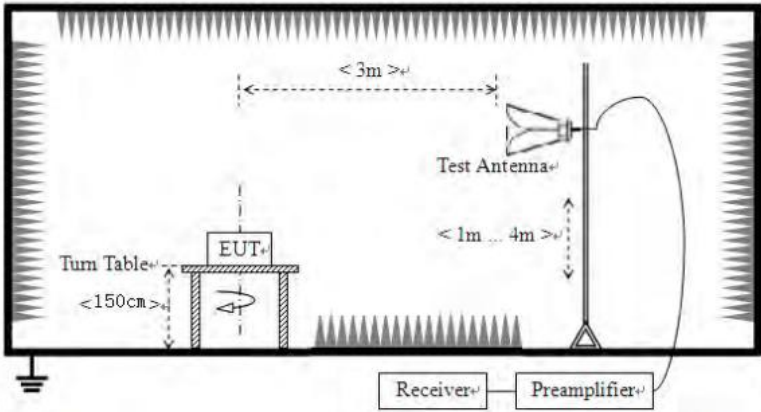
7 Test results and Measurement Data

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

7.2 Radiated Emission Method

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	Quasi-peak	200Hz	600Hz	Quasi-peak
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
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 (uV/m)	Value	Measurement Distance
	0.009MHz-0.490MHz		2400/F(KHz)	QP	300m
	0.490MHz-1.705MHz		24000/F(KHz)	QP	300m
	1.705MHz-30MHz		30	QP	30m
	30MHz-88MHz		100	QP	3m
	88MHz-216MHz		150	QP	
	216MHz-960MHz		200	QP	
	960MHz-1GHz		500	QP	
	Above 1GHz		500	Average	
			5000	Peak	
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:	Below 30MHz  Below 1GHz  Above 1GHz 
Test Procedure:	1. The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) 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.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 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)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2405.00	87.41	27.43	5.40	36.87	83.37	114.00	-30.63	Vertical
2405.00	90.55	27.43	5.40	36.87	86.51	114.00	-27.49	Horizontal
2440.00	86.45	27.53	5.43	36.89	82.52	114.00	-31.48	Vertical
2440.00	90.47	27.53	5.43	36.89	86.54	114.00	-27.46	Horizontal
2475.00	87.15	27.64	5.47	36.92	83.34	114.00	-30.66	Vertical
2475.00	90.52	27.64	5.47	36.92	86.71	114.00	-27.29	Horizontal

Average value:

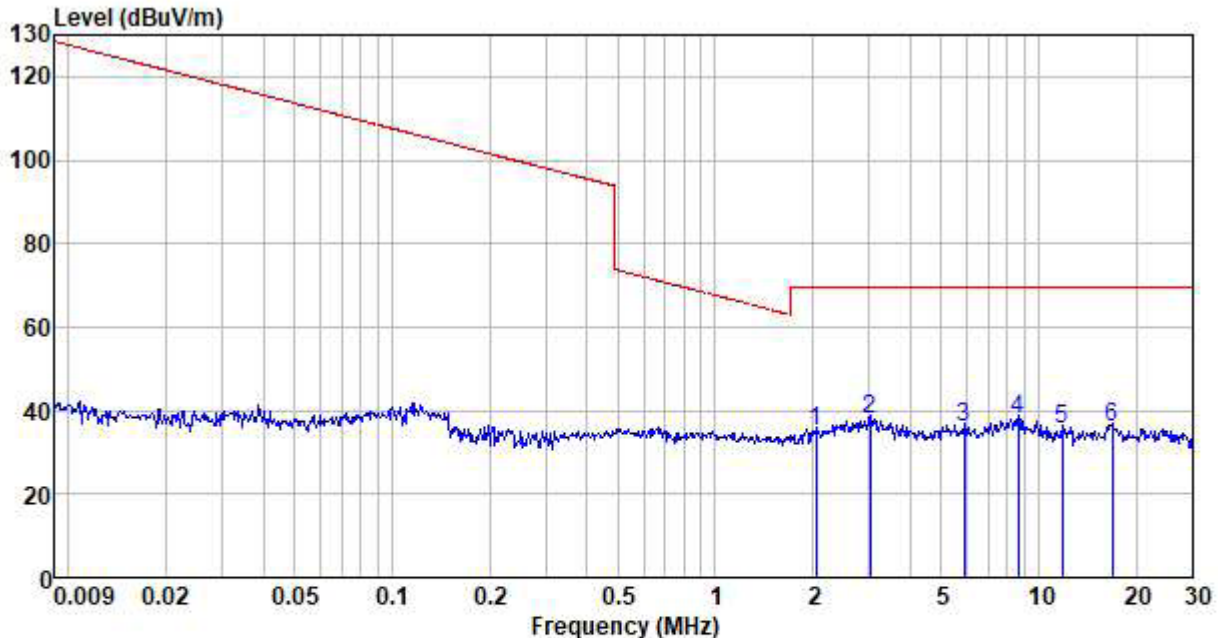
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2405.00	70.44	27.43	5.40	36.87	66.40	94.00	-27.60	Vertical
2405.00	75.12	27.43	5.40	36.87	71.08	94.00	-22.92	Horizontal
2440.00	70.10	27.53	5.43	36.89	66.17	94.00	-27.83	Vertical
2440.00	75.32	27.53	5.43	36.89	71.39	94.00	-22.61	Horizontal
2475.00	70.83	27.64	5.47	36.92	67.02	94.00	-26.98	Vertical
2475.00	75.65	27.64	5.47	36.92	71.84	94.00	-22.16	Horizontal

7.2.2 Spurious emissions

■ 9KHz to 30MHz

Note: Limit dBuV/m @3m = Limit dBuV/m @300m+ 80

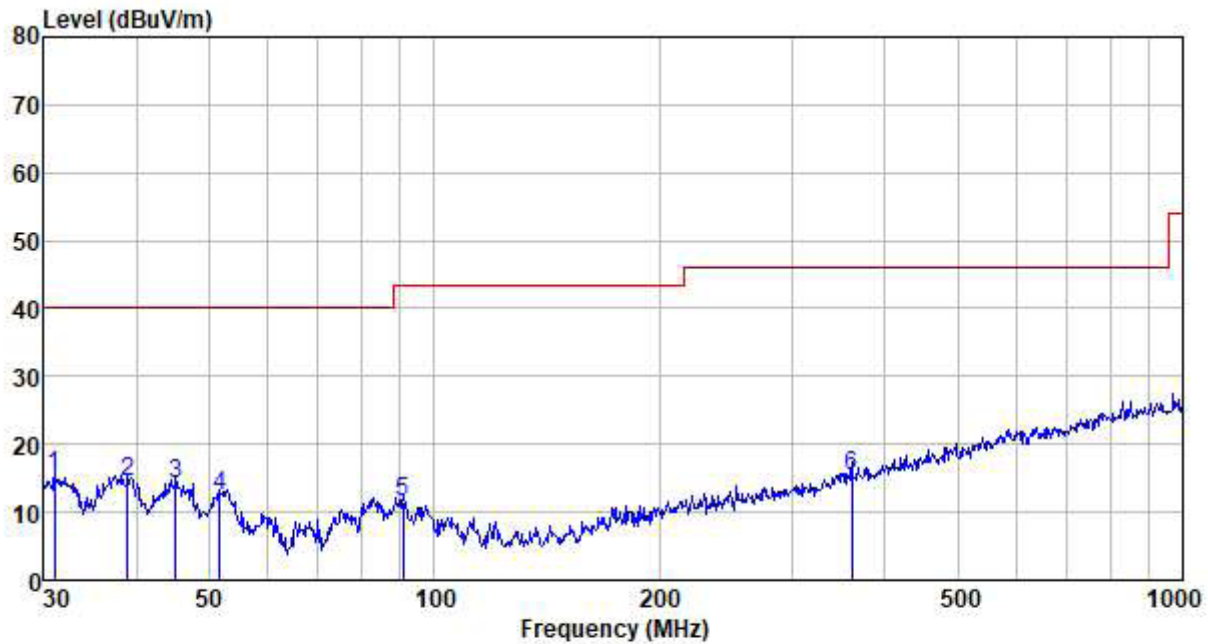
Limit dBuV/m @3m = Limit dBuV/m @30m + 40



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
2.047	28.50	25.41	0.37	19.23	35.05	69.54	-34.49	QP
3.021	30.91	25.60	0.40	19.06	37.85	69.54	-31.69	QP
5.875	28.78	26.04	0.45	19.19	36.08	69.54	-33.46	QP
8.672	31.52	26.15	0.47	20.24	37.90	69.54	-31.64	QP
11.803	29.83	25.45	0.50	20.31	35.47	69.54	-34.07	QP
16.865	31.32	23.88	0.52	19.77	35.95	69.54	-33.59	QP

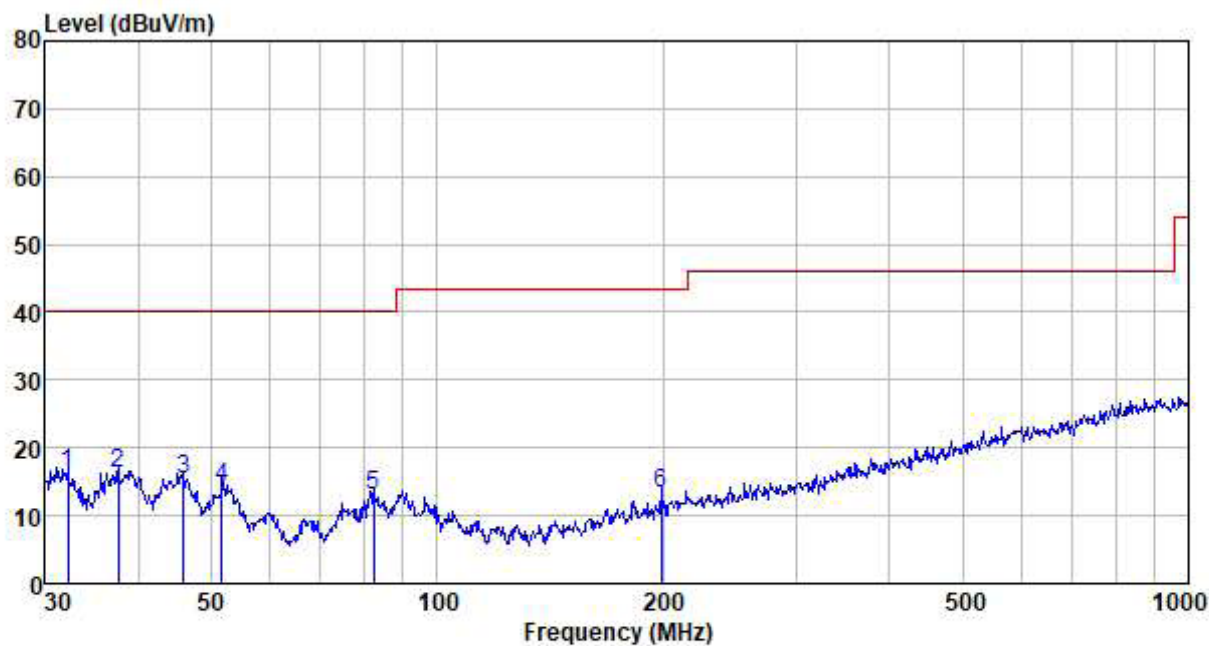
■ Below 1GHz

Horizontal :



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
31.079	33.71	11.22	0.56	30.19	15.30	40.00	-24.70	QP
38.921	31.98	12.04	0.65	30.10	14.57	40.00	-25.43	QP
45.110	31.31	12.26	0.72	30.04	14.25	40.00	-25.75	QP
51.707	29.48	12.12	0.79	30.00	12.39	40.00	-27.61	QP
90.920	29.46	10.84	1.12	29.91	11.51	43.50	-31.99	QP
361.270	27.85	14.70	2.68	29.78	15.45	46.00	-30.55	QP

Vertical :

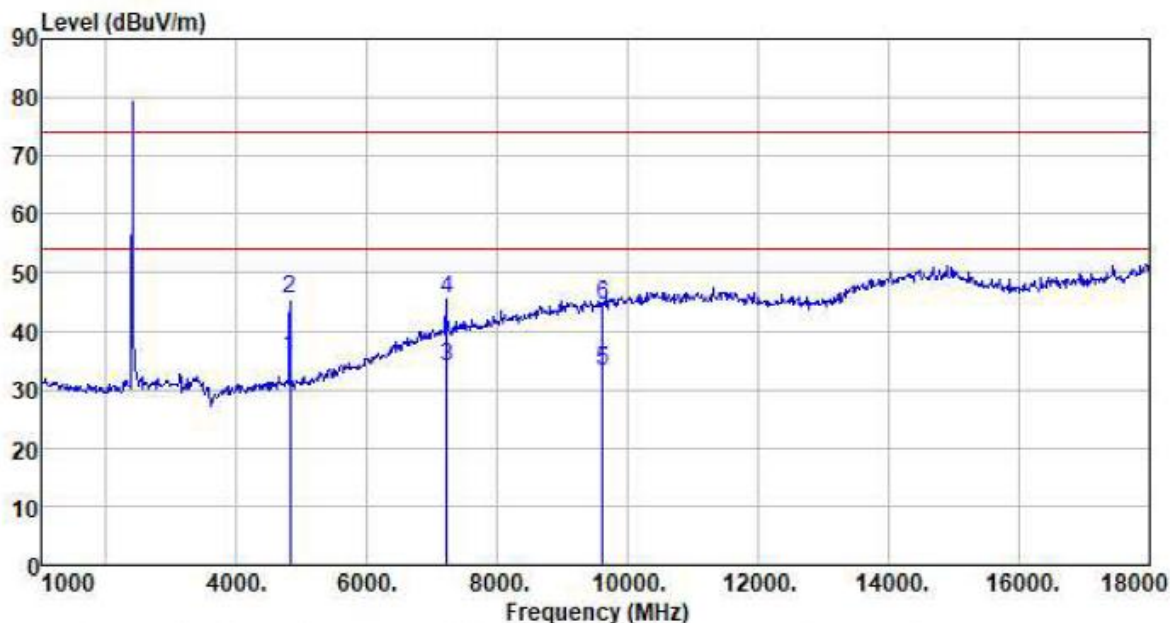


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
32.246	34.53	11.25	0.58	30.17	16.19	40.00	-23.81	QP
37.650	33.98	11.80	0.64	30.11	16.31	40.00	-23.69	QP
45.949	32.27	12.26	0.73	30.03	15.23	40.00	-24.77	QP
51.707	31.15	12.12	0.79	30.00	14.06	40.00	-25.94	QP
82.301	33.63	8.16	1.05	29.93	12.91	40.00	-27.09	QP
198.746	30.56	10.35	1.83	29.50	13.24	43.50	-30.26	QP

■ Above 1GHz

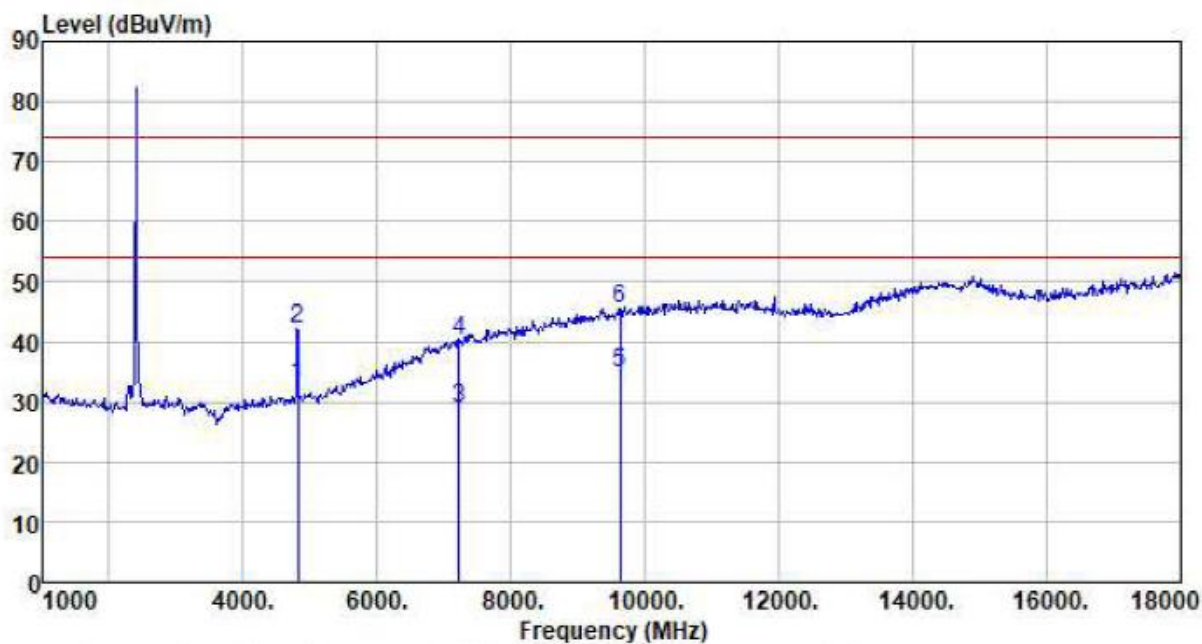
Test channel:	2405MHz
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Horizontal :



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamplifier factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
4810.000	33.56	31.20	8.60	37.73	35.63	54.00	-18.37	Average
4810.000	43.57	31.20	8.60	37.73	45.64	74.00	-28.36	Peak
7215.000	21.55	36.20	11.66	35.63	33.78	54.00	-20.22	Average
7215.000	33.41	36.20	11.66	35.63	45.64	74.00	-28.36	Peak
9619.000	15.96	37.93	14.14	34.94	33.09	54.00	-20.91	Average
9619.000	27.33	37.93	14.14	34.94	44.46	74.00	-29.54	Peak

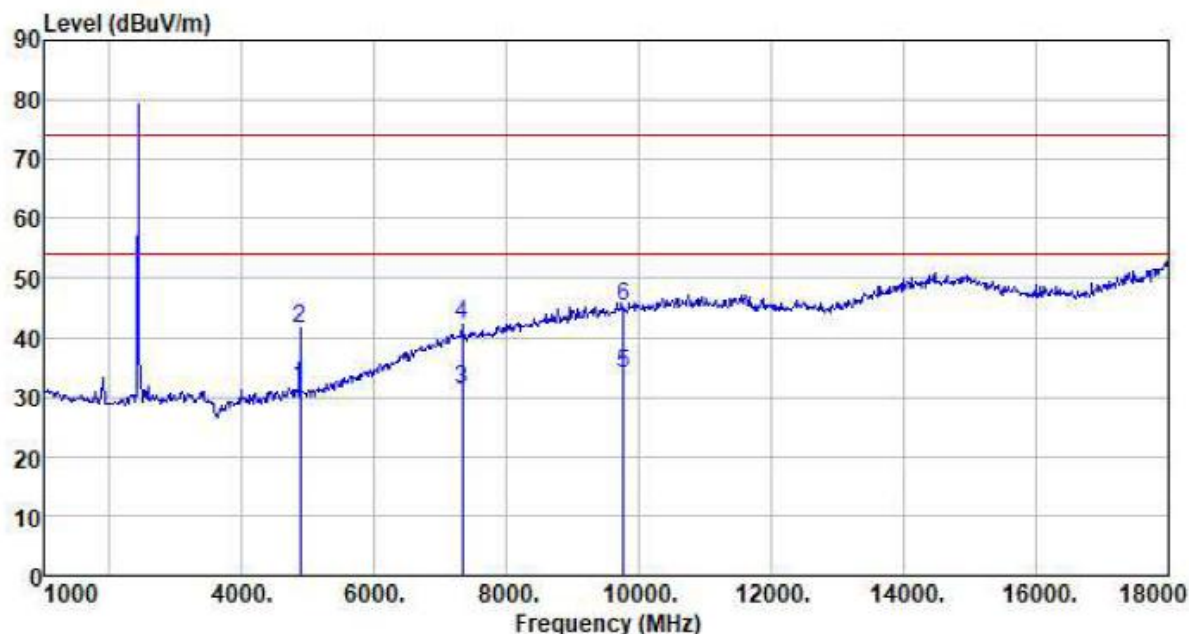
Vertical :



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
4810.000	30.86	31.20	8.60	37.73	32.93	54.00	-21.07	Average
4810.000	40.12	31.20	8.60	37.73	42.19	74.00	-31.81	Peak
7215.000	16.57	36.20	11.66	35.63	28.80	54.00	-25.20	Average
7215.000	28.04	36.20	11.66	35.63	40.27	74.00	-33.73	Peak
9620.000	17.63	37.93	14.14	34.94	34.76	54.00	-19.24	Average
9620.000	28.30	37.93	14.14	34.94	45.43	74.00	-28.57	Peak

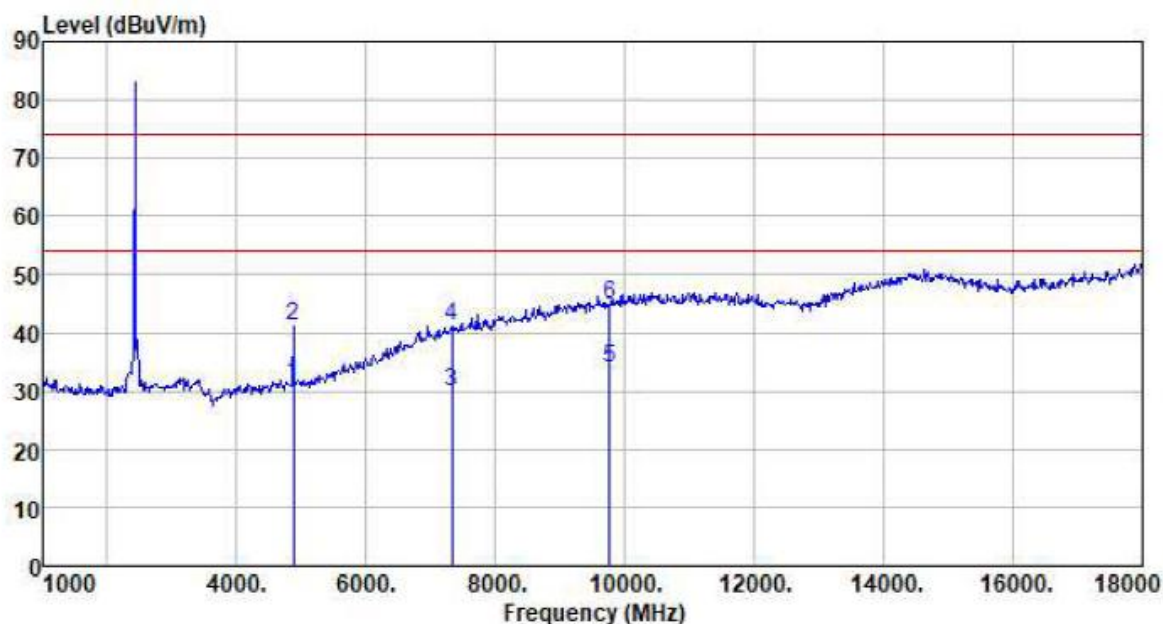
Test channel:	2440MHz
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Horizontal :



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
4880.000	29.32	31.31	8.66	37.75	31.54	54.00	-22.46	Average
4880.000	39.24	31.31	8.66	37.75	41.46	74.00	-32.54	Peak
7320.000	18.61	36.43	11.72	35.60	31.16	54.00	-22.84	Average
7320.000	29.48	36.43	11.72	35.60	42.03	74.00	-31.97	Peak
9760.000	16.56	38.10	14.25	35.03	33.88	54.00	-20.12	Average
9760.000	27.94	38.10	14.25	35.03	45.26	74.00	-28.74	Peak

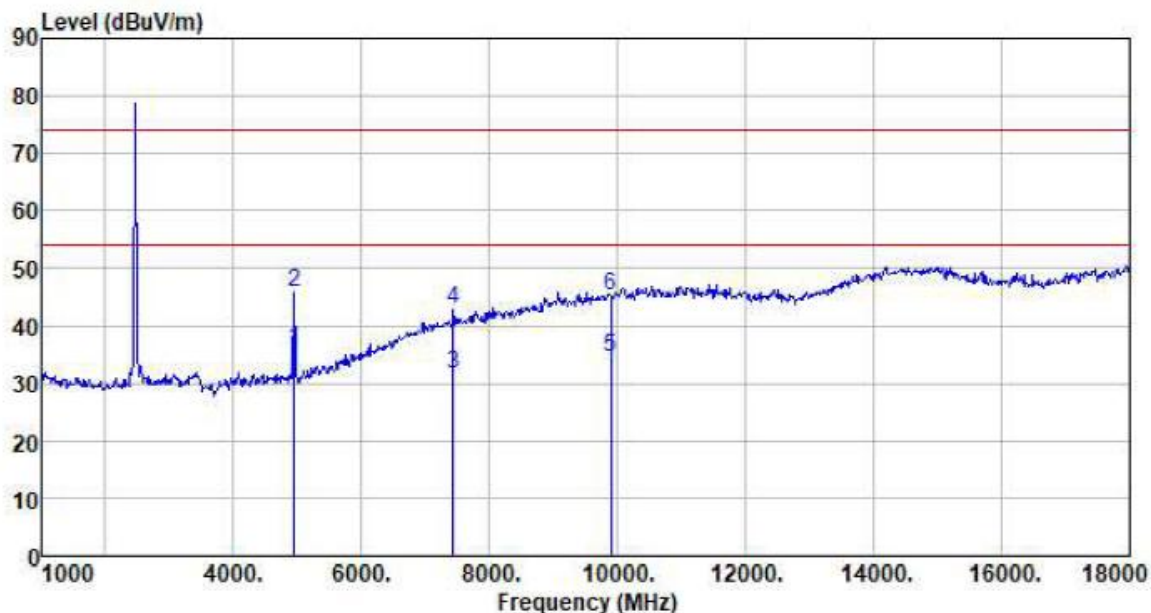
Vertical :



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
4880.000	29.14	31.31	8.66	37.75	31.36	54.00	-22.64	Average
4880.000	39.09	31.31	8.66	37.75	41.31	74.00	-32.69	Peak
7320.000	17.47	36.43	11.72	35.60	30.02	54.00	-23.98	Average
7320.000	28.76	36.43	11.72	35.60	41.31	74.00	-32.69	Peak
9760.000	16.56	38.10	14.25	35.03	33.88	54.00	-20.12	Average
9760.000	27.54	38.10	14.25	35.03	44.86	74.00	-29.14	Peak

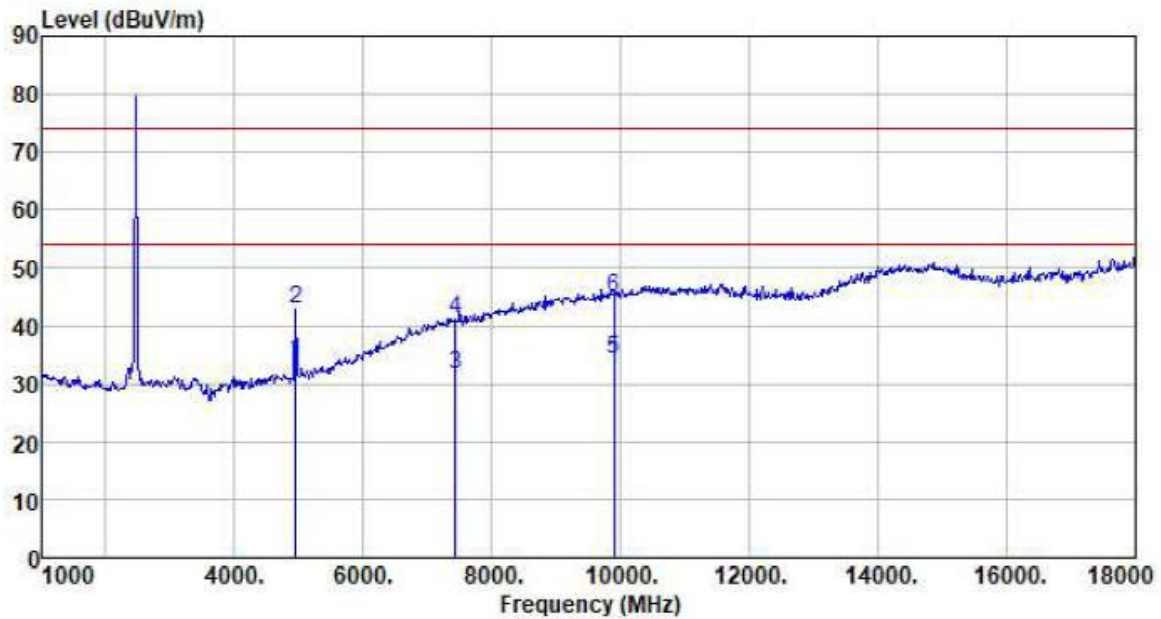
Test channel:	2475MHz
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Horizontal :



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamplifier factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
4950.000	33.51	31.41	8.71	37.78	35.85	54.00	-18.15	Average
4950.000	43.35	31.41	8.71	37.78	45.69	74.00	-28.31	Peak
7425.000	18.62	36.66	11.79	35.56	31.51	54.00	-22.49	Average
7425.000	29.88	36.66	11.79	35.56	42.77	74.00	-31.23	Peak
9900.000	16.98	38.27	14.35	35.12	34.48	54.00	-19.52	Average
9900.000	27.66	38.27	14.35	35.12	45.16	74.00	-28.84	Peak

Vertical :



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
4950.000	31.57	31.41	8.71	37.78	33.91	54.00	-20.09	Average
4950.000	40.66	31.41	8.71	37.78	43.00	74.00	-31.00	Peak
7425.000	18.50	36.66	11.79	35.56	31.39	54.00	-22.61	Average
7425.000	28.23	36.66	11.79	35.56	41.12	74.00	-32.88	Peak
9900.000	16.60	38.27	14.35	35.12	34.10	54.00	-19.90	Average
9900.000	27.46	38.27	14.35	35.12	44.96	74.00	-29.04	Peak

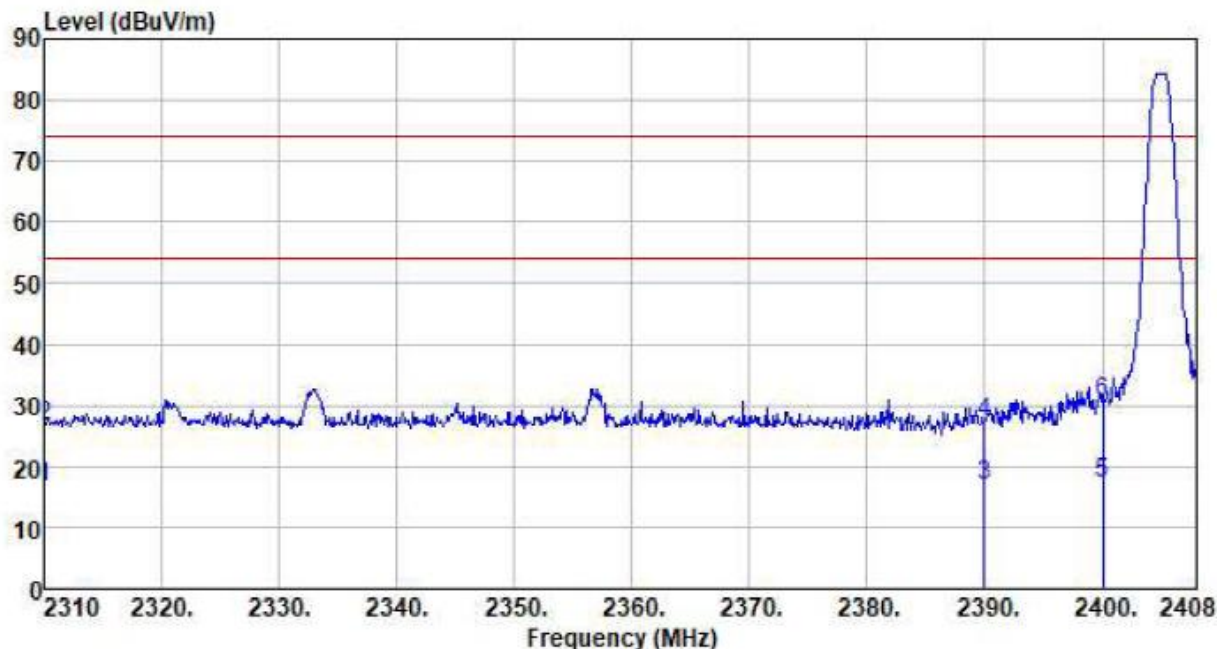
Remark:

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

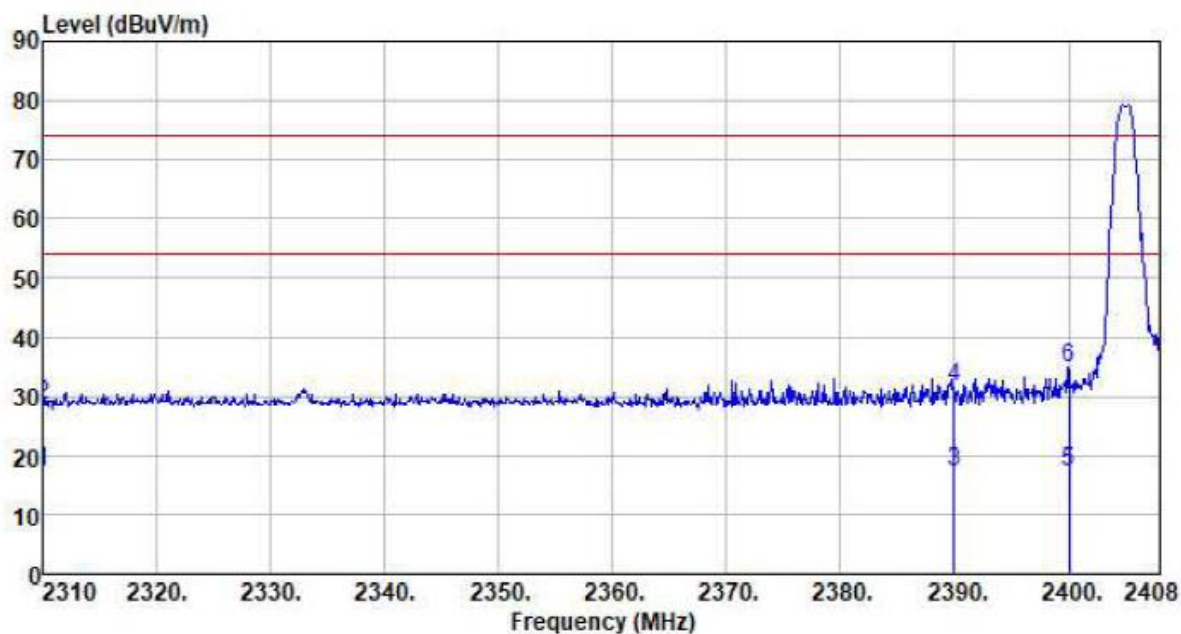
Test channel:	2405MHz
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Horizontal :



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
2310.000	21.11	27.14	5.30	36.79	16.76	54.00	-37.24	Average
2310.000	31.05	27.14	5.30	36.79	26.70	74.00	-47.30	Peak
2390.000	20.92	27.37	5.38	36.85	16.82	54.00	-37.18	Average
2390.000	31.31	27.37	5.38	36.85	27.21	74.00	-46.79	Peak
2400.000	21.38	27.41	5.39	36.86	17.32	54.00	-36.68	Average
2400.000	34.68	27.41	5.39	36.86	30.62	74.00	-43.38	Peak

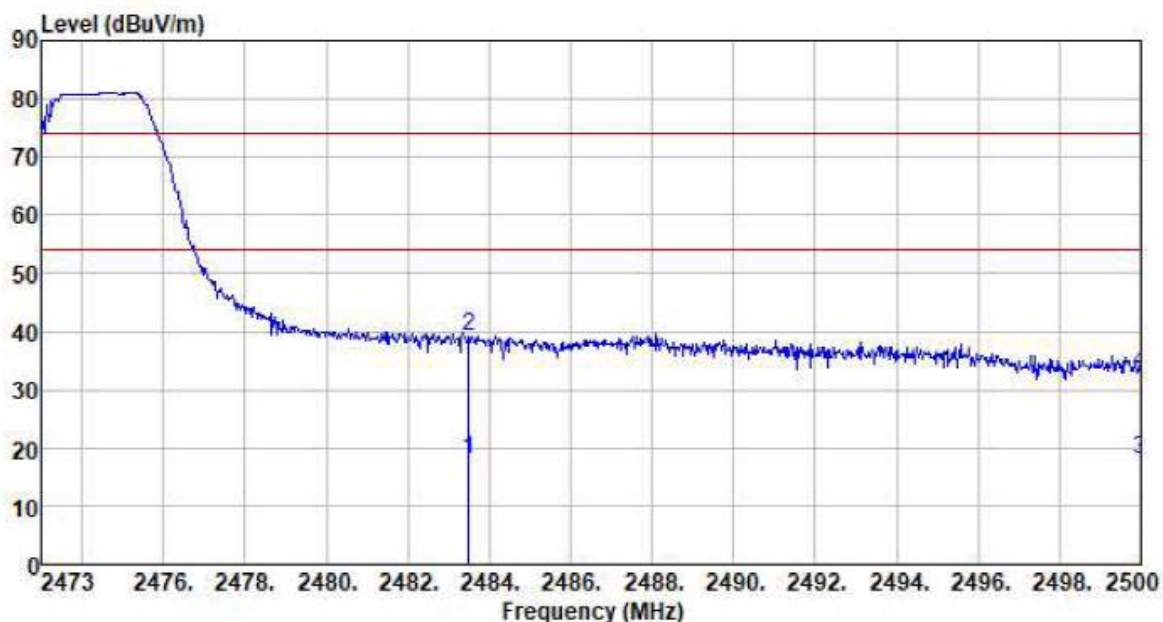
Vertical :



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
2310.000	21.48	27.14	5.30	36.79	17.13	54.00	-36.87	Average
2310.000	33.06	27.14	5.30	36.79	28.71	74.00	-45.29	Peak
2390.000	21.27	27.37	5.38	36.85	17.17	54.00	-36.83	Average
2390.000	35.49	27.37	5.38	36.85	31.39	74.00	-42.61	Peak
2400.000	21.47	27.41	5.39	36.86	17.41	54.00	-36.59	Average
2400.000	38.83	27.41	5.39	36.86	34.77	74.00	-39.23	Peak

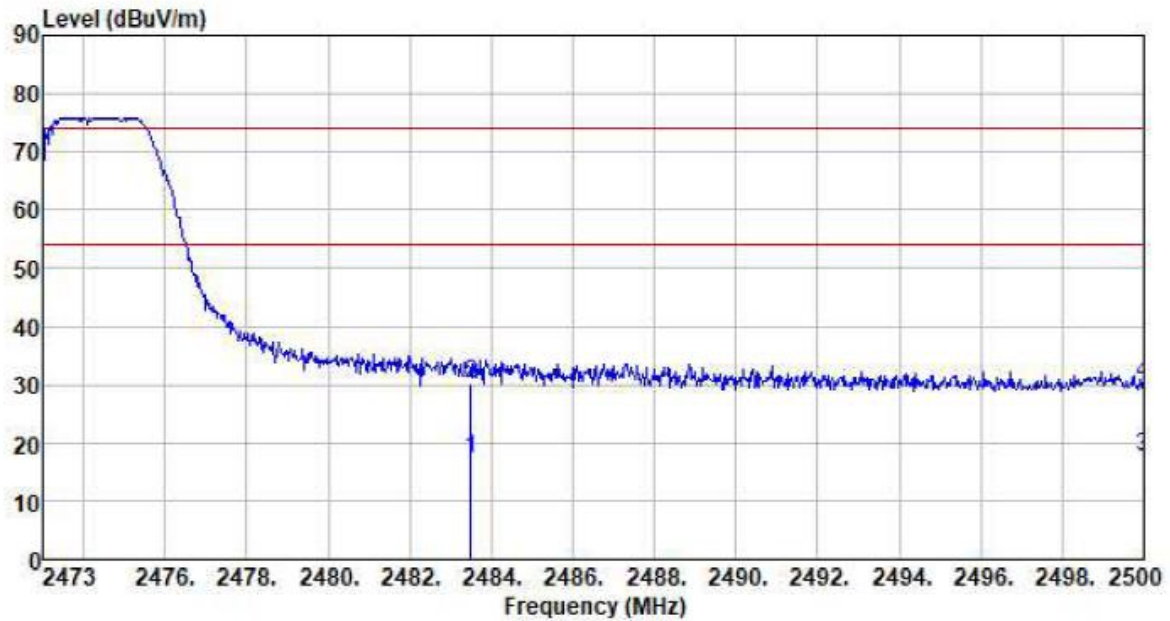
Test channel:	2475MHz
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Horizontal :



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
2483.500	21.63	27.66	5.47	36.93	17.83	54.00	-36.17	Average
2483.500	42.83	27.66	5.47	36.93	39.03	74.00	-34.97	Peak
2500.000	21.58	27.70	5.49	36.94	17.83	54.00	-36.17	Average
2500.000	36.54	27.70	5.49	36.94	32.79	74.00	-41.21	Peak

Vertical :

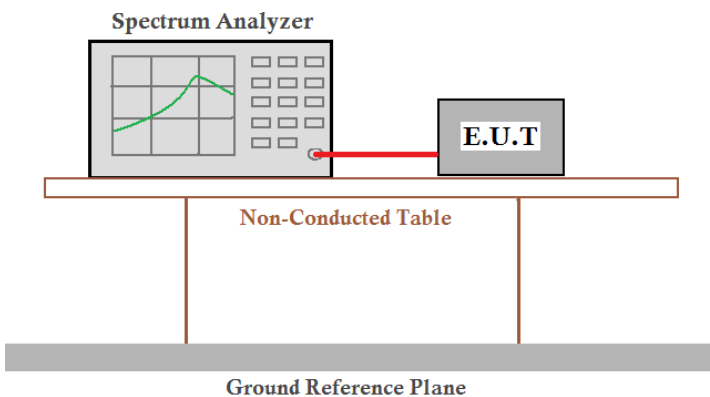


Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
2483.500	21.13	27.66	5.47	36.93	17.33	54.00	-36.67	Average
2483.500	34.03	27.66	5.47	36.93	30.23	74.00	-43.77	Peak
2500.000	21.20	27.70	5.49	36.94	17.45	54.00	-36.55	Average
2500.000	33.98	27.70	5.49	36.94	30.23	74.00	-43.77	Peak

Remark:

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

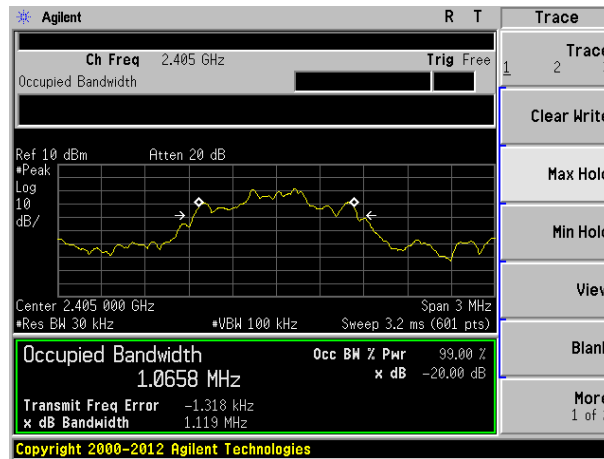
7.3 20dB Occupy Bandwidth

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:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

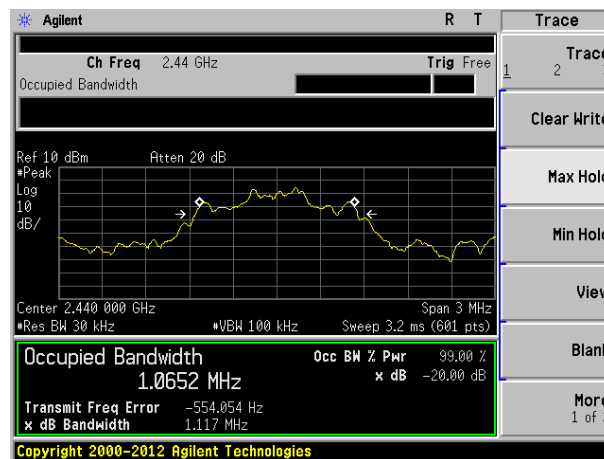
Measurement Data

Test channel	20dB bandwidth(MHz)	Result
2405MHz	1.119	Pass
2440MHz	1.117	Pass
2475MHz	1.120	Pass

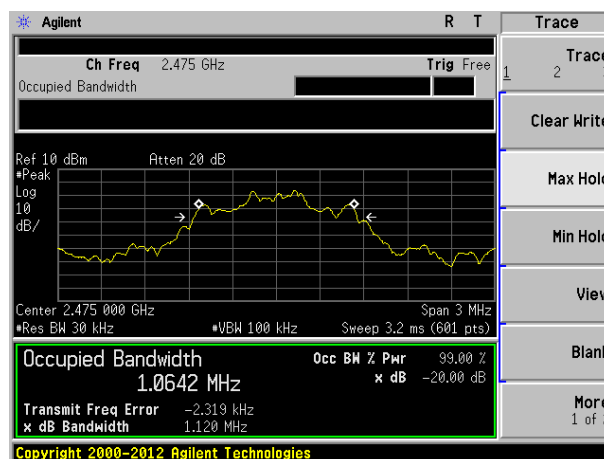
Test plot as follows:



2405MHz



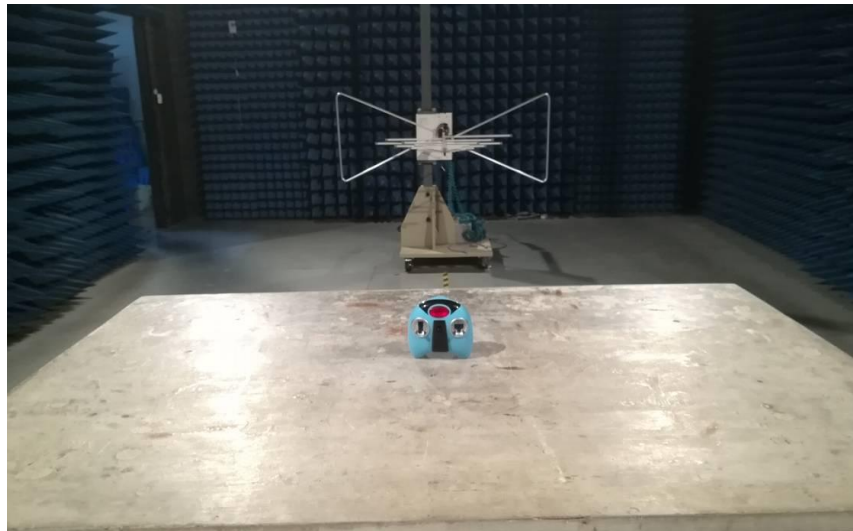
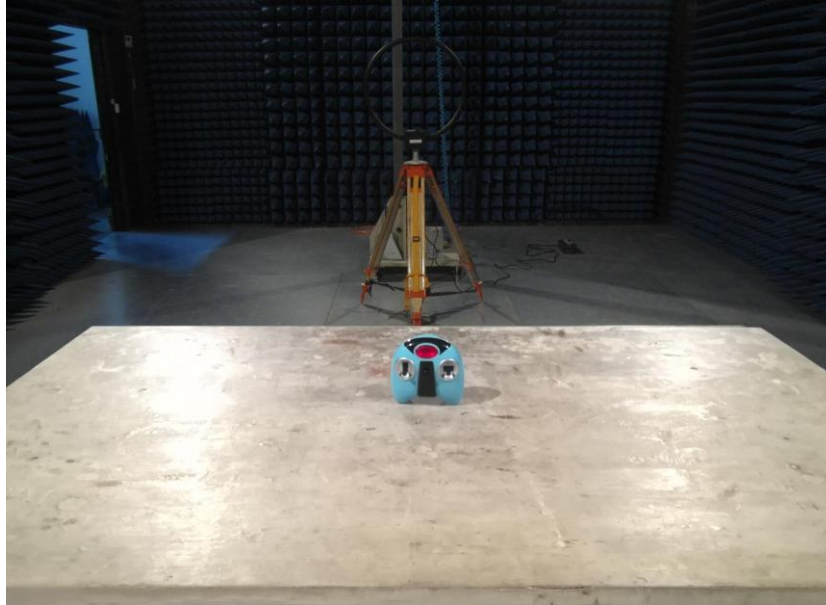
2440MHz

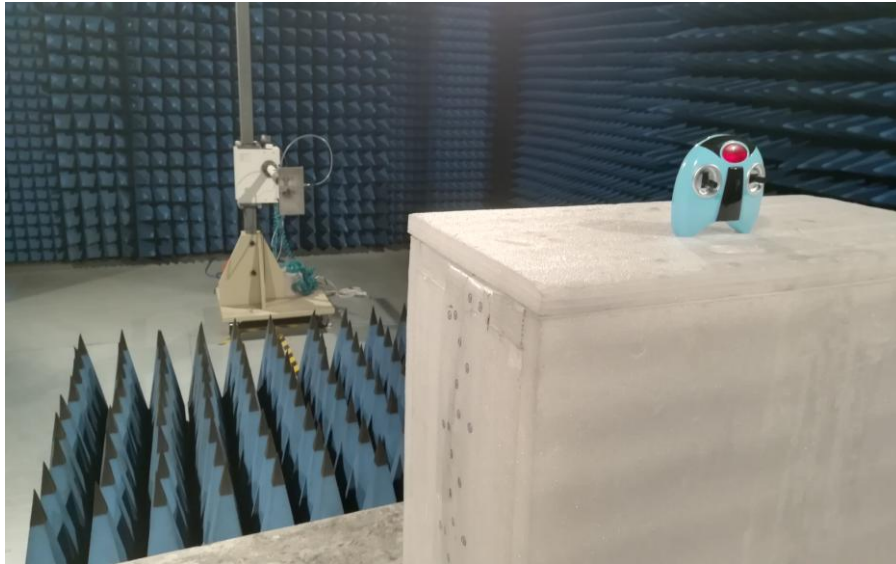


2475MHz

8 Test Setup Photo

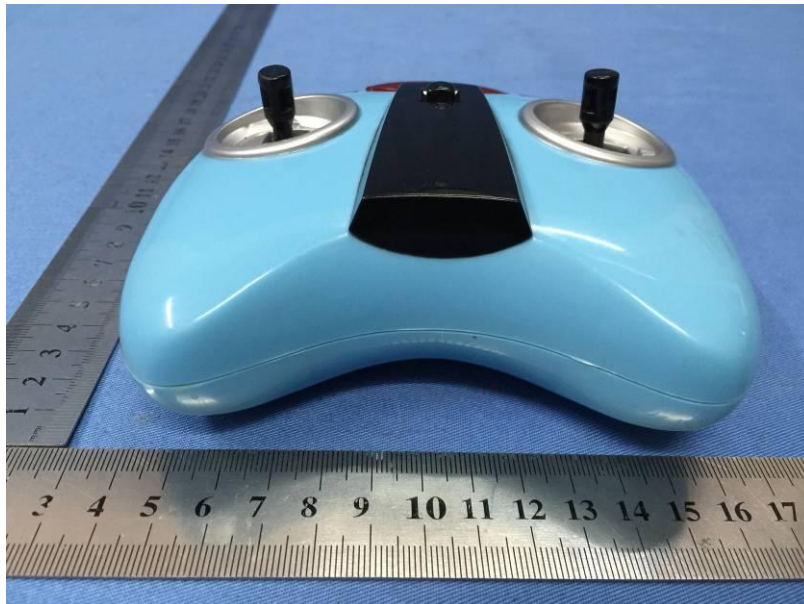
Radiated Emission

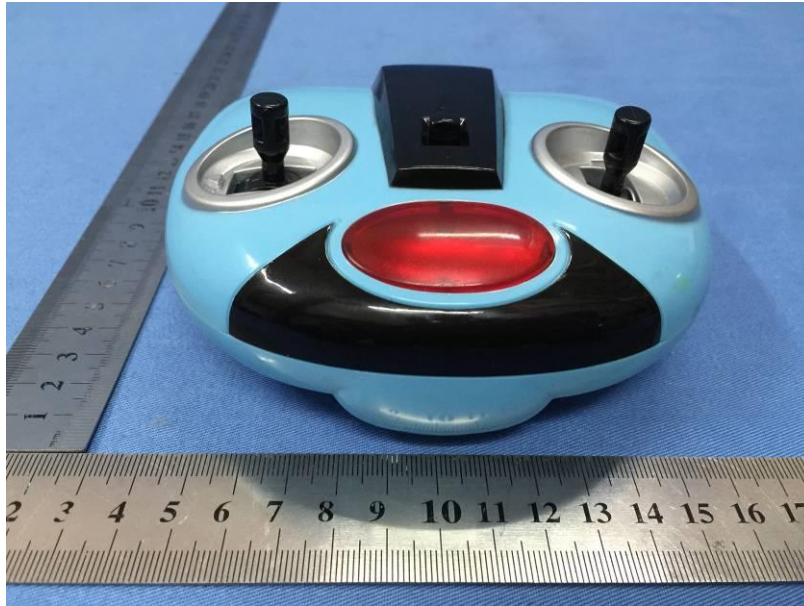




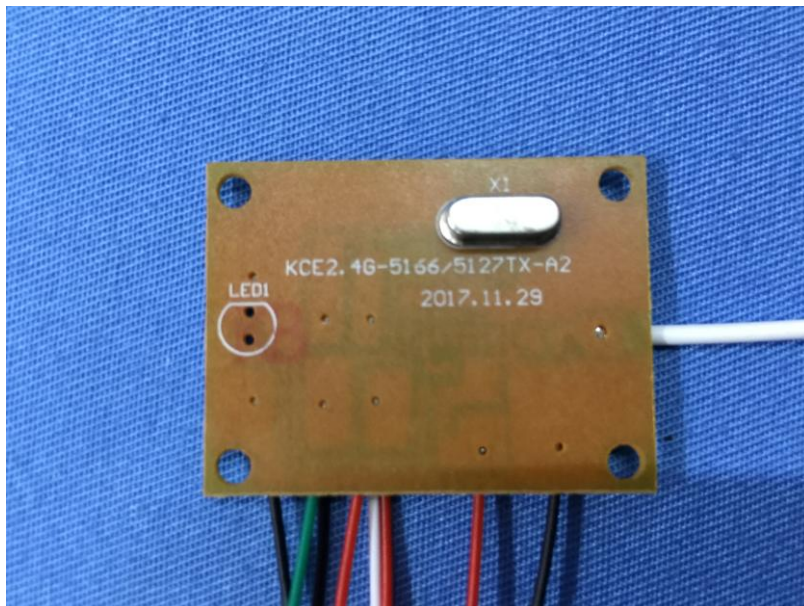
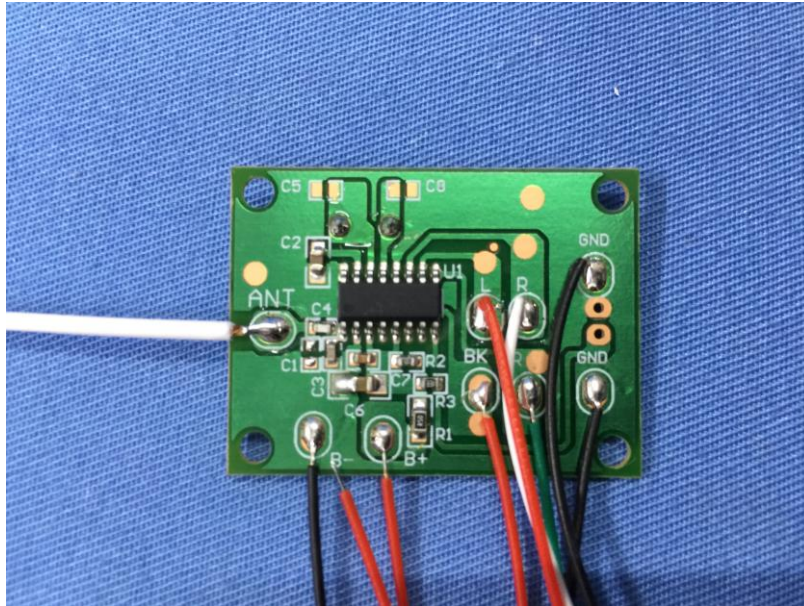
9 EUT Constructional Details

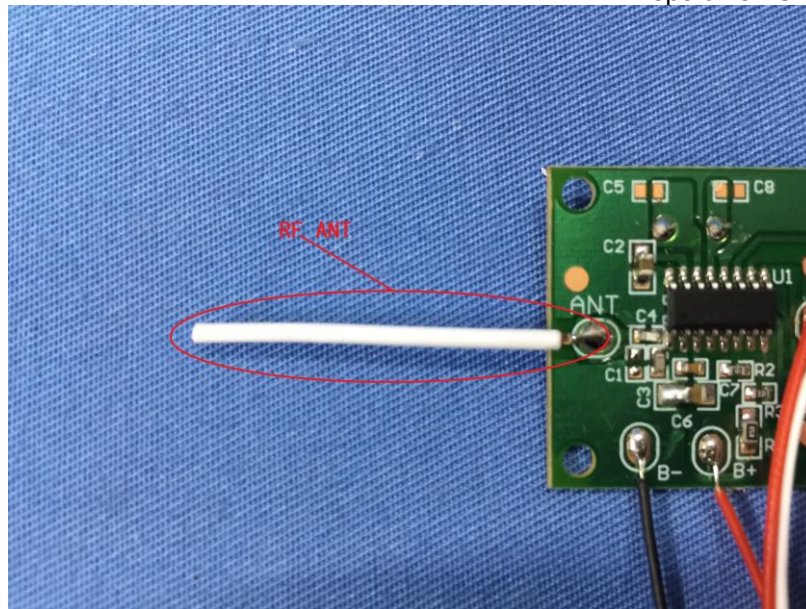












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