TECHNICAL REPORT

Report No.: FCC1906016
File reference No.: 2019-06-20

Applicant: Ningbo Troika Science & Technology Company Limited

Product: MT Micro Car And Romote

Model No.: OT027

Brand Name: N/A

Test Standards: FCC Part 15.249

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4&FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation of electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated: June 20, 2019

Results appearing herein relate only to the sample tested
The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China
Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com

Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

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

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 744189

The 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 our files. Registration No.: 744189.

Industry Canada (IC) —Registration No.:5205A-2

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A-2.

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Test Report Conclusion

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1.0 General Details

1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TESTING LABORATORIES.

Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Telephone: (755) 83448688

Fax: (755) 83442996

Site on File with the Federal Communications Commission – United Sates

Registration Number: 744189

For 3m Anechoic Chamber

1.2 Applicant Details

Applicant: Ningbo Troika Science & Technology Company Limited

Address: No.11 Gaoya Road, Jiangshan Town, Yinzhou District, Ningbo City, China

Telephone: --

Fax: --

1.3 Description of EUT

Product: MT Micro Car And Romote

Manufacturer: Ningbo Troika Science & Technology Company Limited

Address: No.11 Gaoya Road, Jiangshan Town, Yinzhou District, Ningbo City, China

Brand Name: N/A

Model Number: OT027

Additional Model Name: N/A

Input Voltage: DC3.0V, 2pcs AAA batteries

Modulation Type: GFSK

Operation Frequency 2405-2479MHz

Frequency List

2405MHz	2427MHz	2446MHz	2458MHz	2471MHz
2406MHz	2428MHz	2447MHz	2459MHz	2472MHz
2422MHz	2436MHz	2449MHz	2467MHz	2473MHz
2424MHz	2437MHz	2451MHz	2468MHz	2476MHz
2425MHz	2444MHz	2456MHz	2469MHz	2477MHz
2426MHz	2445MHz	2457MHz	2470MHz	2479MHz

Antenna Designation Integral antenna with gain 0dBi Max

1.4 Submitted Sample

5 Sample

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1.5 Test Duration

2019-06-03 to 2019-06-20

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty =5%

Conducted Emissions Uncertainty =3.6dB

1.7 Test Engineer

The sample tested by Terry Tang

Print Name: Terry Tang

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2018-06-22	2019-06-21
Ultra Broadband ANT	R&S	HL562	100157	2018-06-18	2019-06-17
Loop Antenna	EMCO	6507	00078608	2018-06-25	2019-06-24
Spectrum	R&S	FSIQ26	100292	2018-06-22	2019-06-21
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2018-06-25	2019-06-24
Horn Antenna	R&S	BBHA 9120D	9120D-631	2018-08-24	2019-08-23
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2018-07-04	2019-07-03
9*6*6 Anechoic	--	--	N/A	2018-02-07	2021-02-06
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2018-06-22	2019-06-21
Spectrum	RS	FSP	1164.4391.38	2019-01-18	2020-01-17
RF Cable	Zhengdi	ZT26-NJ-NJ-8 M/FA	--	2018-05-23	2020-05-22
RF Cable	Zhengdi	7m	--	2019-03-08	2020-03-07
RF Switch	EM	EMSW18	060391	2018-06-22	2019-06-21
Pre-Amplifier	Schwarebeck	BBV9743	#218	2018-06-22	2019-06-21
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2018-08-05	2019-08-04
DC Power Supply	Jingtong	JT12098	WYK-305	2018.08.20	2019-08-19
LISN	SCHAFFNER	NNB42	00012	2019-01-08	2020-01-07

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3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.207	Conducted Emission Test	N/A	Complies
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(d) Limit	Field Strength of Fundamental	PASS	Complies
FCC Part 15, Paragraph 15.209	Radiated Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	PASS	Complies

3.2 Test Standards

FCC Part 15 Subpart C, Paragraph 15.249 , ANSI C63.4 :2014 and ANSI C63.10 :2013

4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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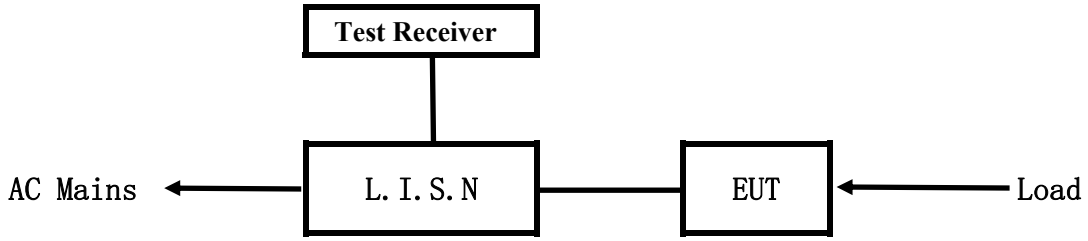
5. Power Line Conducted Emission Test

5.1 Schematics of the test

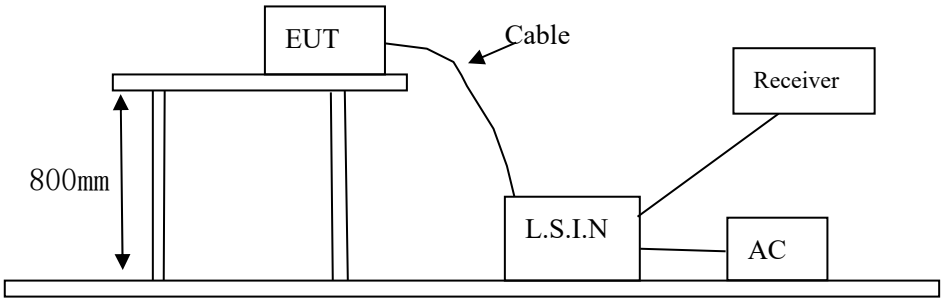


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2014.The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2014.

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2014. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

One channels are provided to the EUT

A. EUT

Device	Manufacturer	Model	FCC ID
MT Micro Car And Romote	Ningbo Troika Science & Technology Company Limited	OT027	2APNP-OT027

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B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	Rating
--	--	--	--

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2014

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.107 and 15.207

Frequency(MHz)	Class A Limits (dB μ V)		Class B Limits (dB μ V)	
	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ～ 0.50	79.0	66.0	66.0～56.0*	56.0～46.0*
0.50 ～ 5.00	73.0	60.0	56.0	46.0
5.00 ～ 30.00	73.0	60.0	60.0	50.0

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The tighter limit shall apply at the transition frequencies

5.6 Test Results Pass

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

Note: EUT Powered by AAA battery, this item not applicable.

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6 Radiated Emission Test

6.1 Test Method and test Procedure:

(1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189

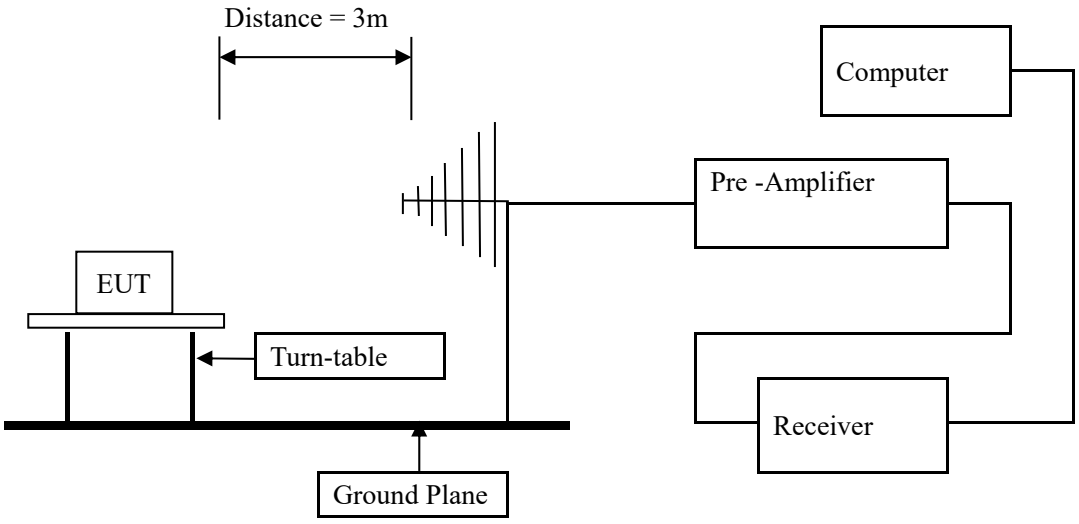
(2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.

(3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz (Note: for Fundamental frequency radiated emission measurement, RBW=3MHz, VBW=10MHz). PK detector is for PK value,RMS detector is for AV value .Measurements were made at 3 meters.

(4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.

(5) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup



6.2 Configuration of The EUT

Same as section 5.3 of this report

6.3 EUT Operating Condition

Same as section 5.4 of this report.

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6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

A FCC Part 15 Subpart C Paragraph 15.249(a) Limit

Fundamental Frequency (MHz)	Field Strength of Fundamental (3m)			Field Strength of Harmonics (3m)		
	mV/m	**dBuV/m**		**uV/m**	**dBuV/m**	
2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)

Note: 1. RF Field Strength (dBuV) = 20 log RF Voltage (uV)

2.Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

B. Frequencies in restricted band are complied to limit on Paragraph 15.209.

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note: 1. RF Voltage (dBuV) = 20 log RF Voltage (uV)

2. In the Above Table, the tighter limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

4. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

5. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-25G, the final emission level got using PK. For fundamental measurement, PK detector used.

6. New batteries were used during tests.

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6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

Product:	MT Micro Car And Romote	Test Mode:	Keep transmitting-Low Channel
Test Item:	Fundamental Radiated Emission Data	Temperature:	25℃
Test Voltage:	DC3.0V	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
2405	94.41(PK)/80.23(AV)	H	114/94	-15.59/-13.77
2405	98.10(PK)83.76(AV)	V	114/94	-15.90/-10.24
4810	56.07(PK)/48.21(AV)	H	74/54	-17.93/-5.79
4810	58.13(PK)/50.39(AV)	V	74/54	-15.87/-3.61
7215	54.07(PK)/46.29(AV)	H	74/54	-19.93/-7.71
7215	56.09(PK)/48.33(AV)	V	74/54	-17.91/-5.67
9620	--	H/V	74/54	--
12025	--	H/V	74/54	--
14430	--	H/V	74/54	--
16835	--	H/V	74/54	--
19240	--	H/V	74/54	--
21645	--	H/V	74/54	--
24050	--	H/V	74/54	--

Note: (1) PK= Peak, AV= Average
(2) Emission Level = Reading Level + Antenna Factor + Cable Loss.
(3)Margin=Emission-Limits
(4)According to section 15.35(b), the peak limit is 20dB higher than the average limit
(5) For test purpose, keep EUT continuous transmitting

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Product:	MT Micro Car And Romote	Test Mode:	Keep transmitting-Middle Channel
Test Item:	Fundamental Radiated Emission Data	Temperature:	25℃
Test Voltage:	DC3.0V	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	**Emission PK/AV (dBuV/m)**	**Horiz / Vert**	**Limits PK/AV (dBuV/m)**	**Margin (dB)**
2444	98.51(PK)/84.18(AV)	V	114/94	-15.49/-9.82
2444	92.89(PK)/79.06(AV)	H	114/94	-21.11/-14.94
4888	58.75(PK)/50.96(AV)	V	74/54	-15.25/-3.04
4888	55.64(PK)/47.78(AV)	H	74/54	-18.36/-6.22
7332	57.21(PK)/49.35(AV)	V	74/54	-16.79/-4.65
7332	54.06(PK)/46.52(AV)	H	74/54	-19.94/-7.48
9776	--	H/V	74/54	--
12220	--	H/V	74/54	--
14664	--	H/V	74/54	--
17108	--	H/V	74/54	--
19552	--	H/V	74/54	--
21996	--	H/V	74/54	--
24440	--	H/V	74/54	--

Note: (1) PK= Peak, AV= Average

(2) Emission Level = Reading Level + Antenna Factor + Cable Loss.

(3)Margin=Emission-Limits

(4)According to section 15.35(b), the peak limit is 20dB higher than the average limit

(5) For test purpose, keep EUT continuous transmitting

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Product:	MT Micro Car And Romote	Test Mode:	Keep transmitting-High Channel
Test Item:	Fundamental Radiated Emission Data	Temperature:	25℃
Test Voltage:	DC3.0V	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	**Emission PK/AV (dBuV/m)**	**Horiz / Vert**	**Limits PK/AV (dBuV/m)**	**Margin (dB)**
2479	94.22(PK)/80.05(AV)	H	114/94	-19.78/-13.95
2479	99.41(PK)/85.21(AV)	V	114/94	-14.59/-8.79
4958	58.45(PK)/50.57(AV)	H	74/54	-15.55/-3.43
4958	57.72(PK)/50.16(AV)	V	74/54	-16.28/-3.84
7437	54.99(PK)/47.29(AV)	H	74/54	-19.01/-6.71
7437	56.12(PK)/46.40(AV)	V	74/54	-17.88/-7.60
9916	--	H/V	74/54	
12495	--	H/V	74/54	--
14874	--	H/V	74/54	--
17353	--	H/V	74/54	--
19832	--	H/V	74/54	--
22311	--	H/V	74/54	--
24790	--	H/V	74/54	--

Note: (1) PK= Peak, AV= Average

(2) Emission Level = Reading Level + Antenna Factor + Cable Loss.

(3)Margin=Emission-Limits

(4)According to section 15.35(b), the peak limit is 20dB higher than the average limit

(5) For test purpose, keep EUT continuous transmitting

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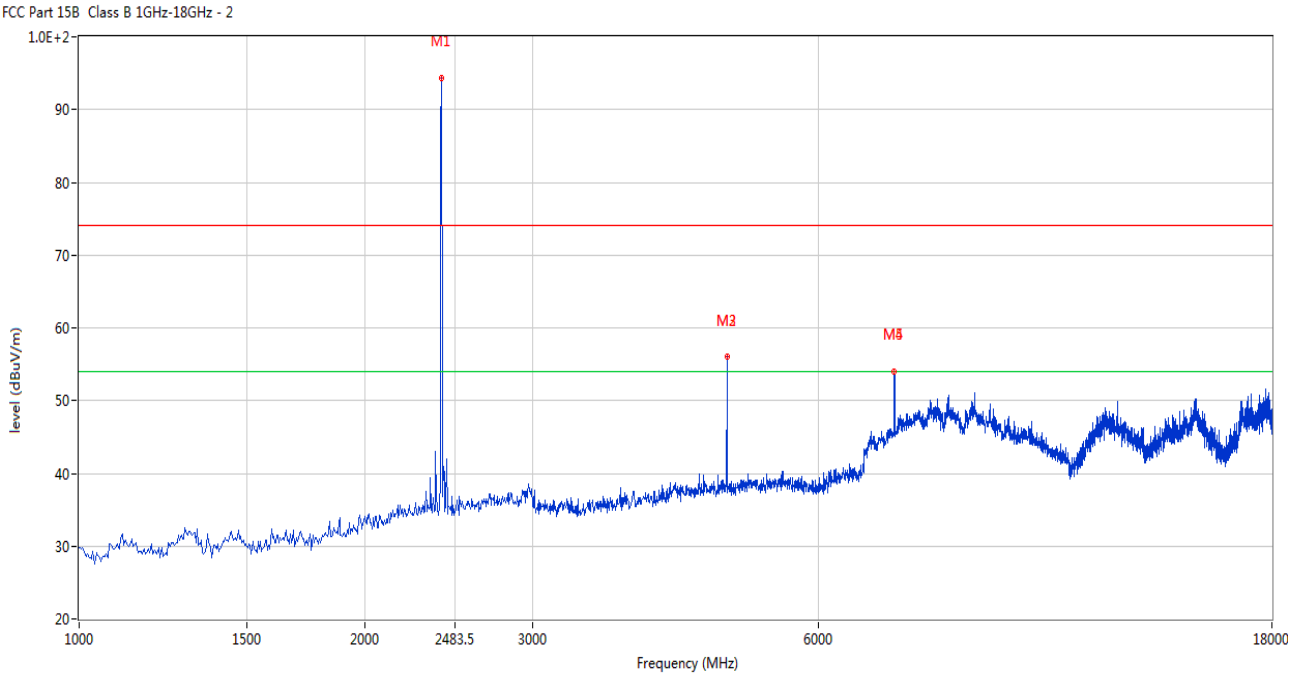
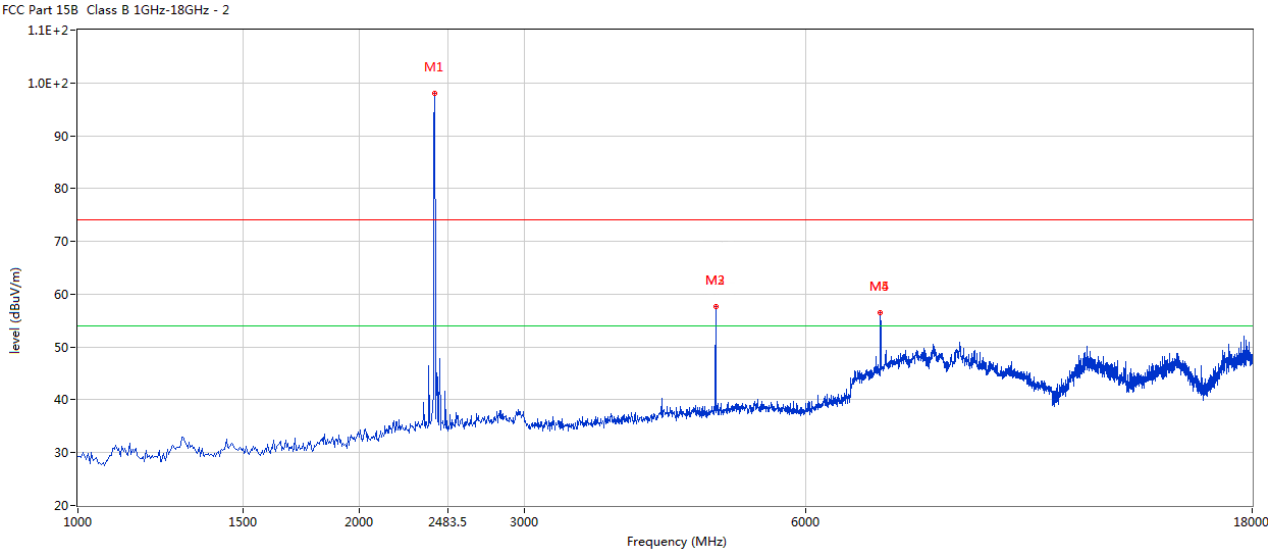
Please refer to the following test plots for details: Low Channel

Horizontal



Vertical



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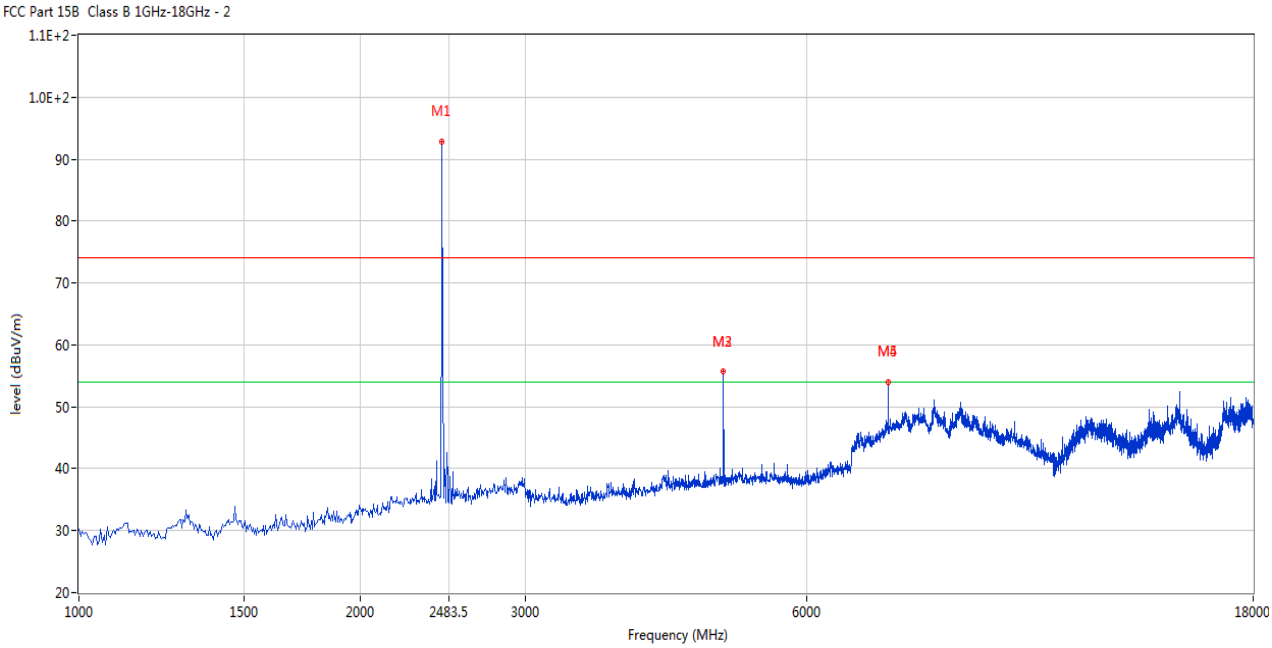
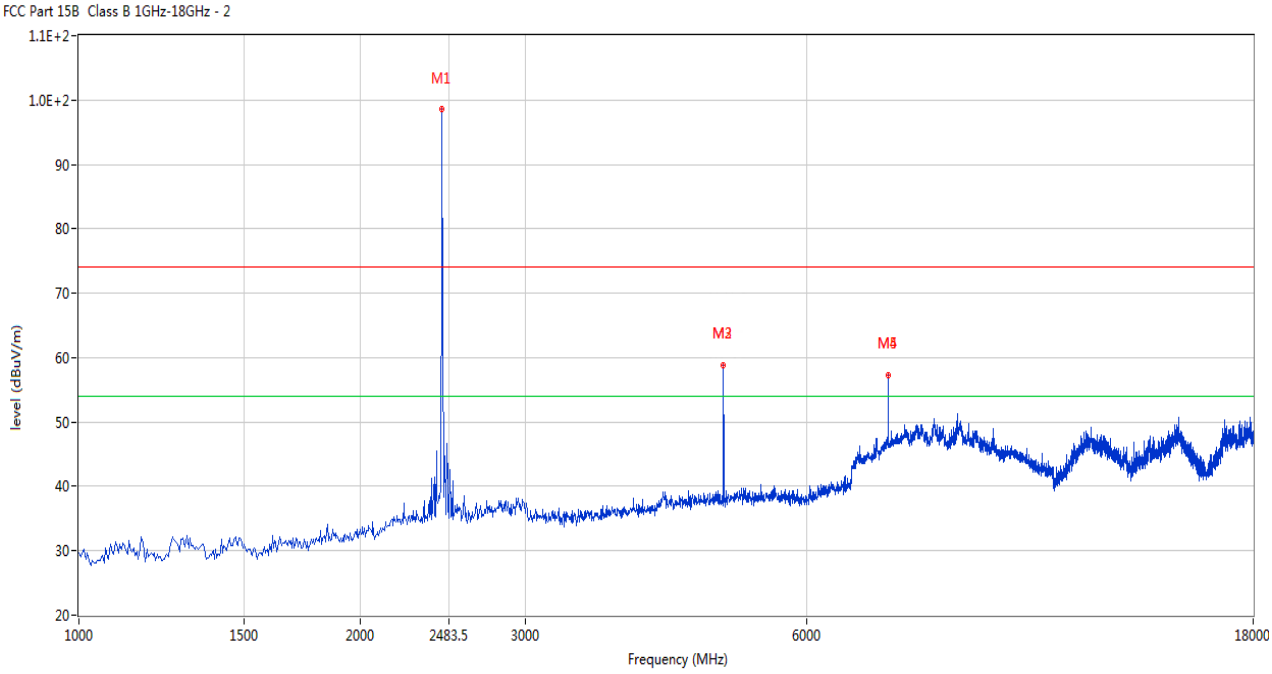
Please refer to the following test plots for details: Middle Channel

Horizontal



Vertical



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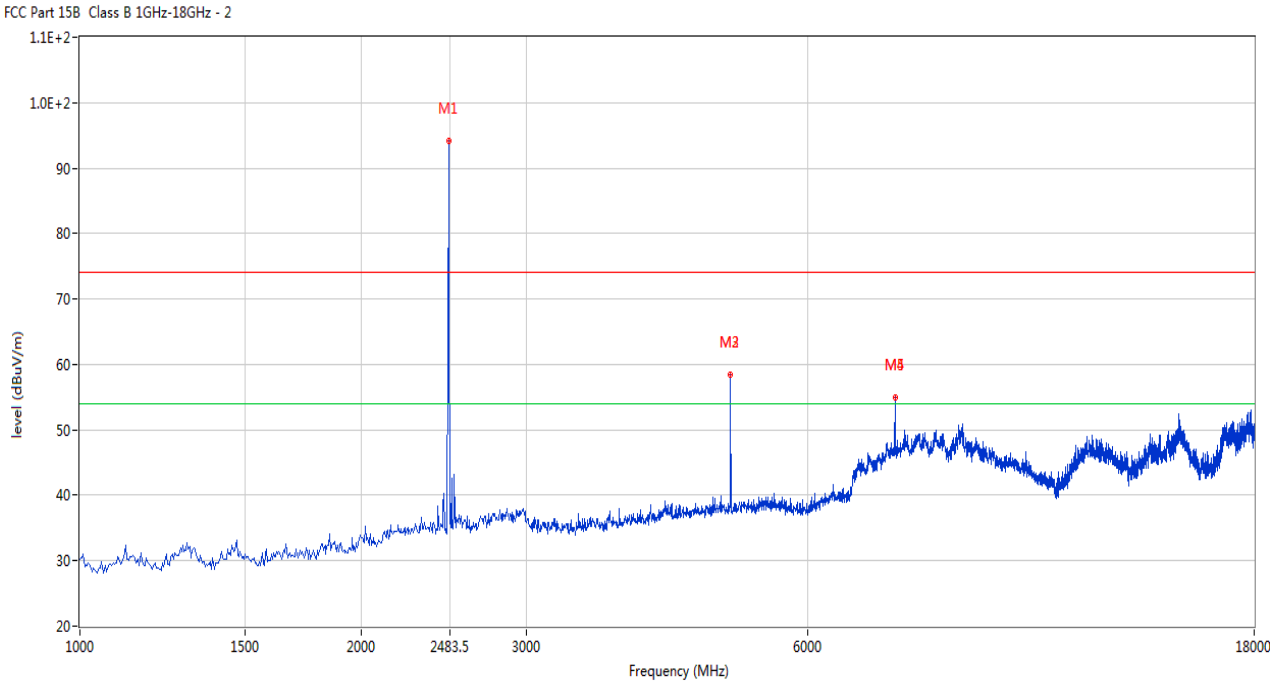
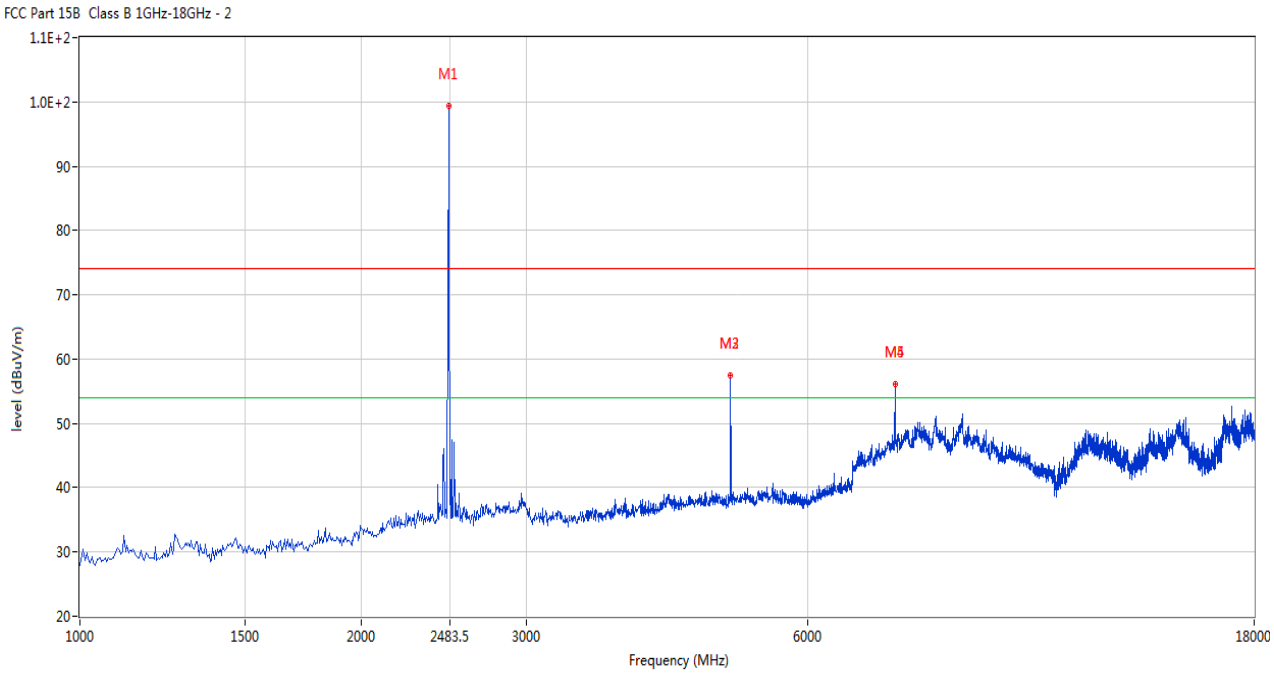
Please refer to the following test plots for details: High Channel

Horizontal



Vertical



For emission above 18GHz, It is only the floor noise. No necessary to take down.

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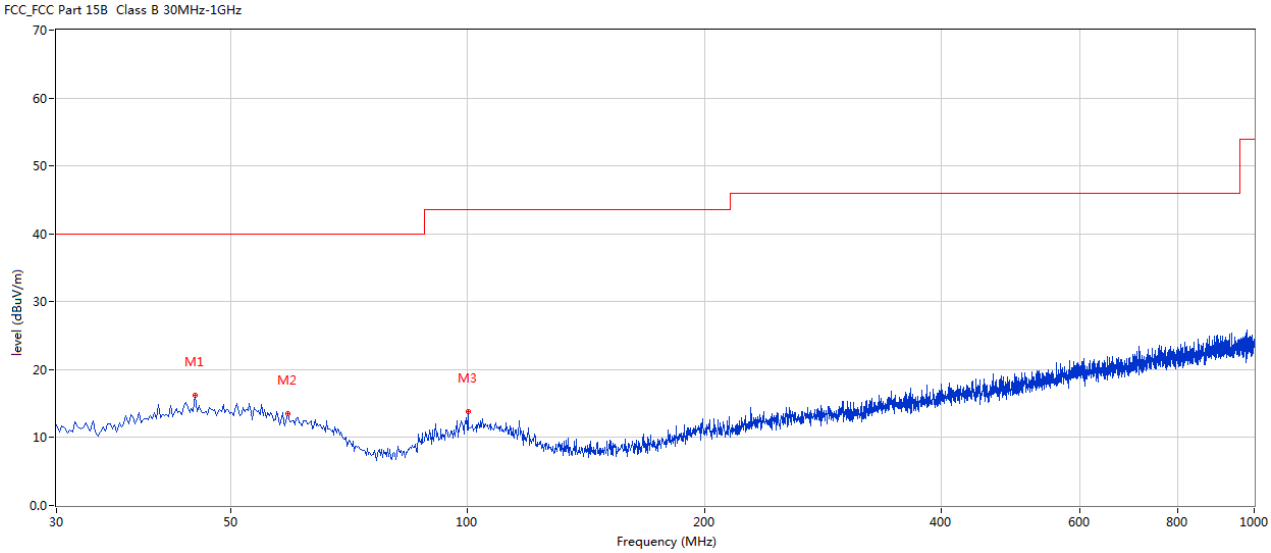
B. **General Radiated Emission Data**

Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	45.031	16.17	-11.41	40.0	-23.83	Peak	166.00	100	H	Pass
2	59.093	13.45	-12.87	40.0	-26.55	Peak	286.00	100	H	Pass
3	100.065	13.85	-13.52	40.0	-26.15	Peak	329.00	100	H	Pass

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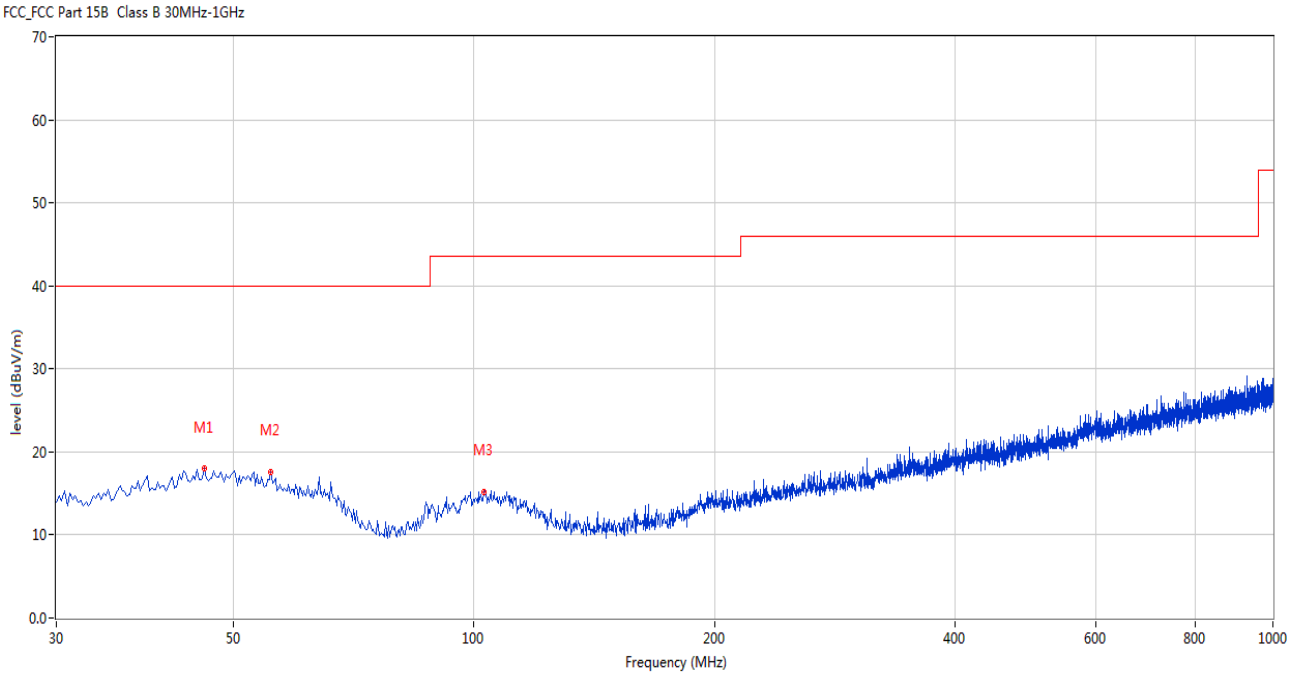
Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	46.001	18.03	-11.40	40.0	-21.97	Peak	119.00	100	V	Pass
2	55.699	17.63	-11.94	40.0	-22.37	Peak	190.00	100	V	Pass
3	102.974	15.23	-13.38	43.5	-28.27	Peak	96.00	100	V	Pass

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7. Band Edge

7.1 Test Method and test Procedure:

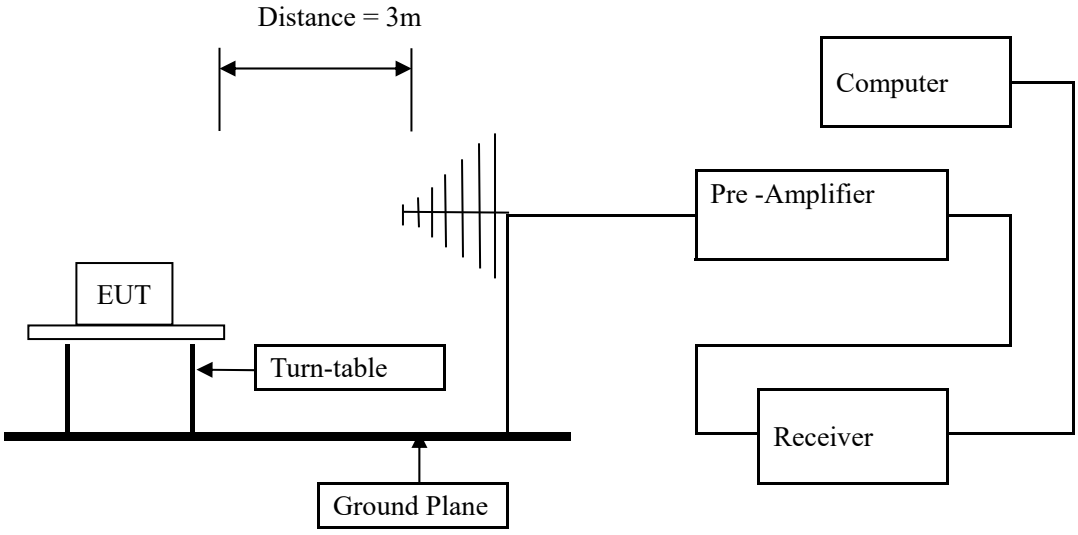
(1) The EUT was tested according to ANSI C63.10–2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189

(2) Set Spectrum as RBW=1MHz,VBW=3MHz and Peak detector used

(3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.

(4) The antenna polarization: Vertical polarization and Horizontal polarization.

7. 2 Radiated Test Setup



For the actual test configuration , please refer to the related items – Photos of Testing

7.3 Configuration of The EUT

Same as section 5.3 of this report

7.4 EUT Operating Condition

Same as section 5.4 of this report.

7.5 Band Edge Limit

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.

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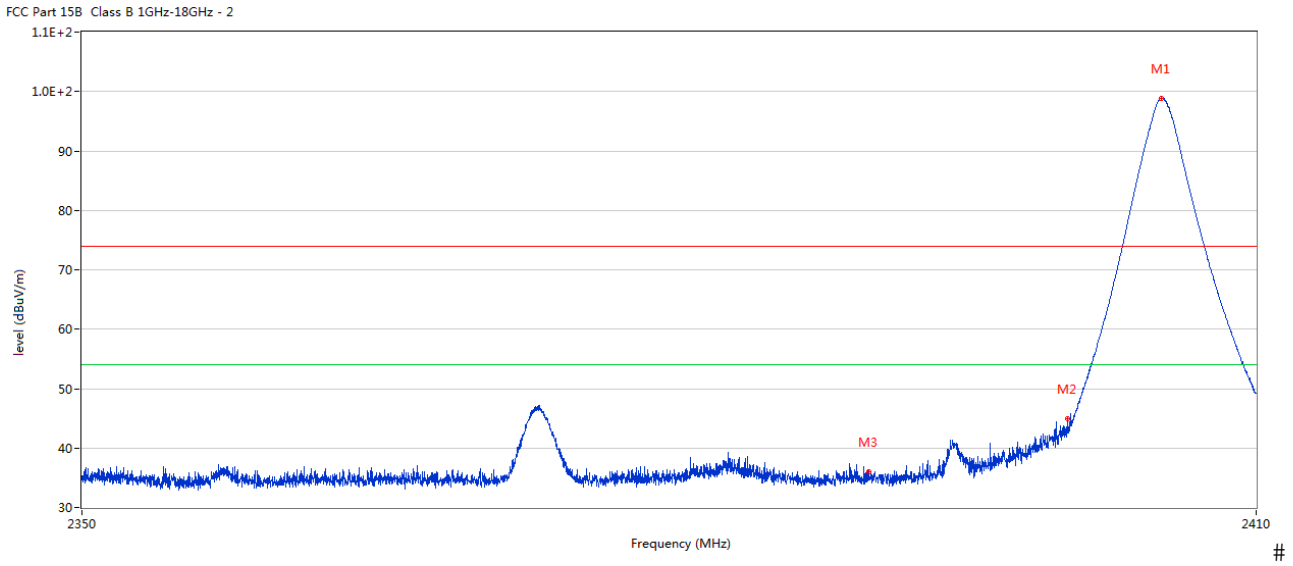
7.6 Test Result

Product:	MT Micro Car And Romote		Polarity	Horizontal
Mode	Keeping Transmitting		Test Voltage	DC3.0V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		--	--
2400MHz	PK (dBμV/m)	44.88	Limit	74 dBμV/m
2400MHz	AV (dBμV/m)	--	Limit	54 dBμV/m
2390 MHz	PK (dBμV/m)	36.06	Limit	74 dBμV/m
2390 MHz	AV (dBμV/m)	--	Limit	54 dBμV/m



#

#

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2405.096	98.83	-3.57	74.0	24.83	Peak	201.00	100	H	N/A
2	2400.200	44.88	-3.57	74.0	-29.12	Peak	287.00	100	H	Pass
3	2390.000	36.06	-3.53	74.0	-37.94	Peak	196.00	100	H	Pass

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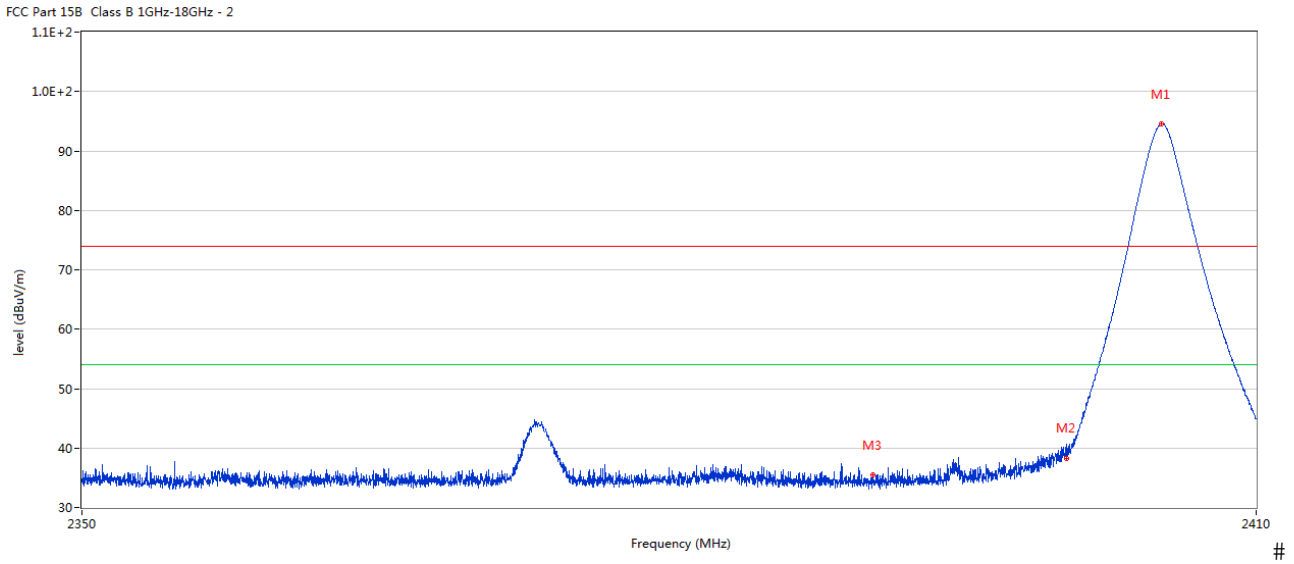
Product:	MT Micro Car And Romote		Detector	Vertical
Mode	Keeping Transmitting		Test Voltage	DC3.0V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		--	--
2400MHz	PK (dBμV/m)	38.24	Limit	74 dBμV/m
2400MHz	AV (dBμV/m)	--	Limit	54 dBμV/m
2390 MHz	PK (dBμV/m)	35.52	Limit	74 dBμV/m
2390 MHz	AV (dBμV/m)	--	Limit	54 dBμV/m



#

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2405.081	94.50	-3.57	74.0	20.50	Peak	337.00	100	V	N/A
2	2400.000	38.24	-3.57	74.0	-35.76	Peak	0.00	100	V	Pass
3	2390.000	35.52	-3.53	74.0	-38.48	Peak	191.00	100	V	Pass

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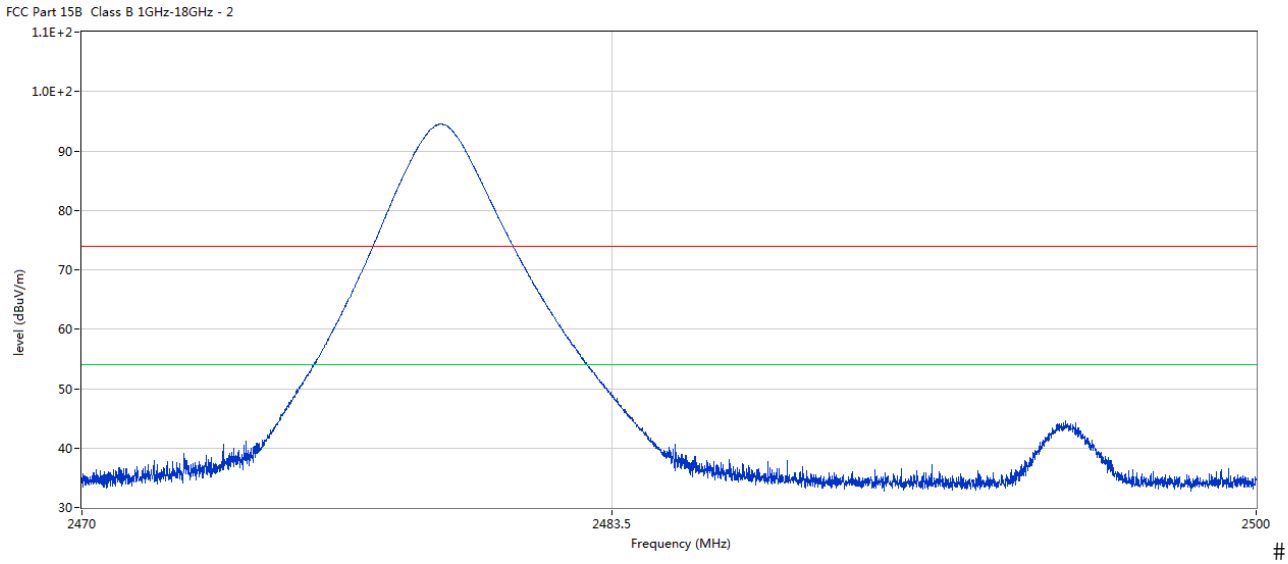
Product:	MT Micro Car And Romote		Polarity	Horizontal
Mode	Keeping Transmitting		Test Voltage	DC3.0V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		--	--
2483.5MHz	PK (dBμV/m)	49.18	Limit	74 dBμV/m
2483.5MHz	AV (dBμV/m)	--	Limit	54 dBμV/m



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2479.110	94.54	-3.57	74.0	20.54	Peak	319.00	100	H	N/A
2	2483.500	49.18	-3.57	74.0	-24.82	Peak	306.00	100	H	Pass

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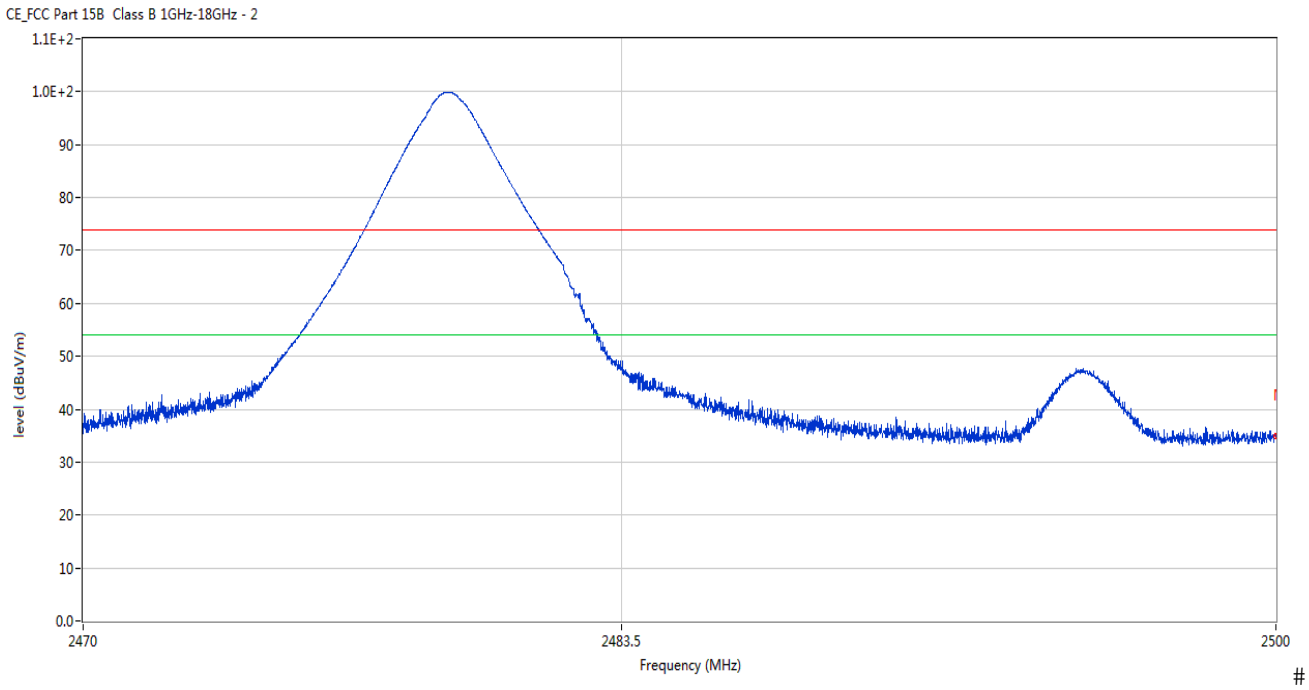
Product:	MT Micro Car And Romote		Detector	Vertical
Mode	Keeping Transmitting		Test Voltage	DC3.0V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		--	--
2483.5MHz	PK (dBμV/m)	49.02	Limit	74 dBμV/m
2483.5MHz	AV (dBμV/m)	--	Limit	54 dBμV/m



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2479.118	99.81	-3.57	74.0	25.81	Peak	193.00	100	V	N/A
2	2483.5	49.02	-3.57	74.0	-25.98	Peak	193.00	100	V	Pass

Note: The PK emission level less than the AV limit. No necessary to record the AV emission level.

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8.0 Antenna Requirement

Applicable Standard

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 shall be considered sufficient to comply with the provisions of this section.

This product has a PCB antenna. The antenna gain is 0dBi Max. It fulfills the requirement of this section.

Test Result: Pass

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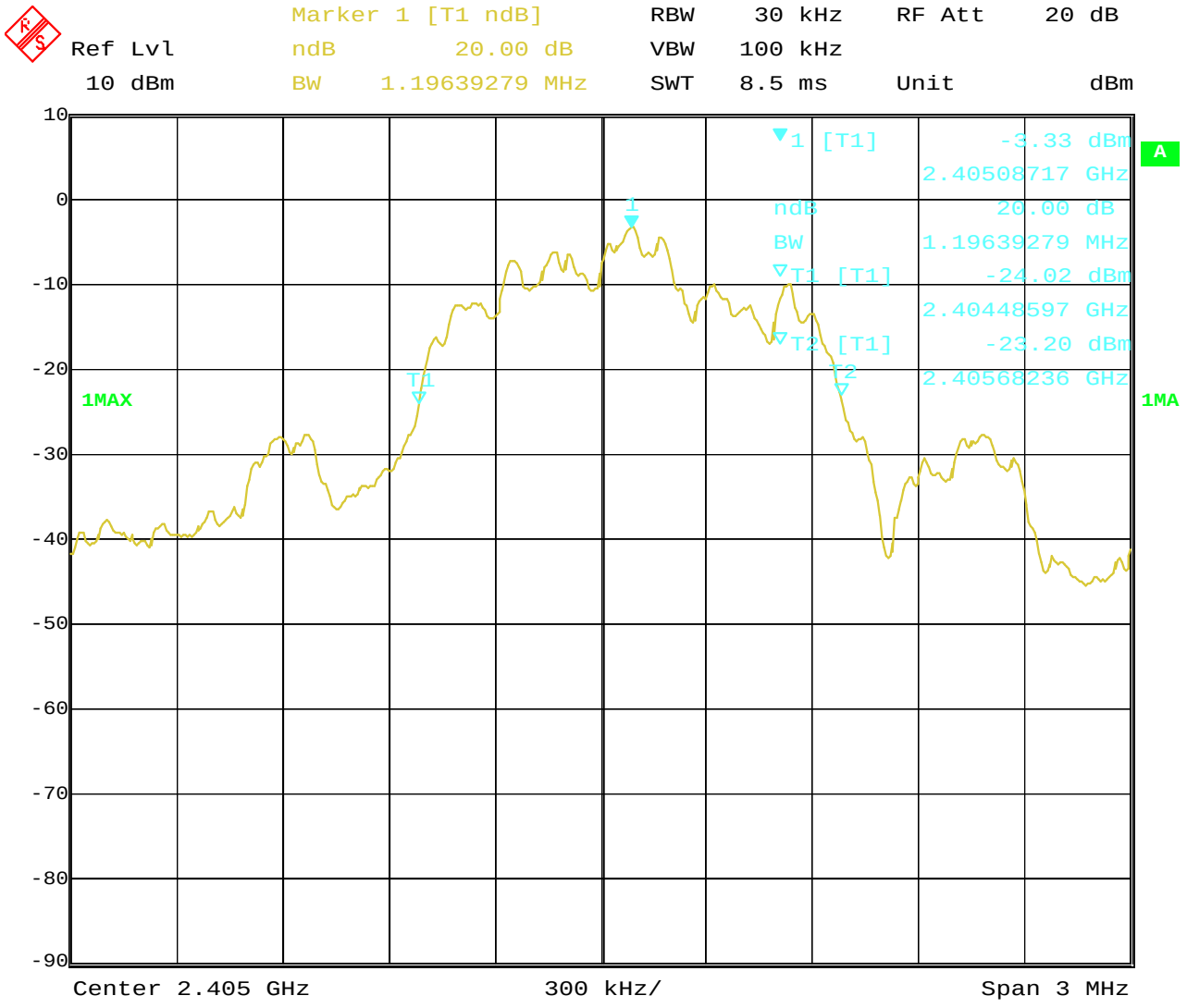
9.0 20dB Bandwidth Measurement			
Product:	MT Micro Car And Romote	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.0V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.20MHz	--	--



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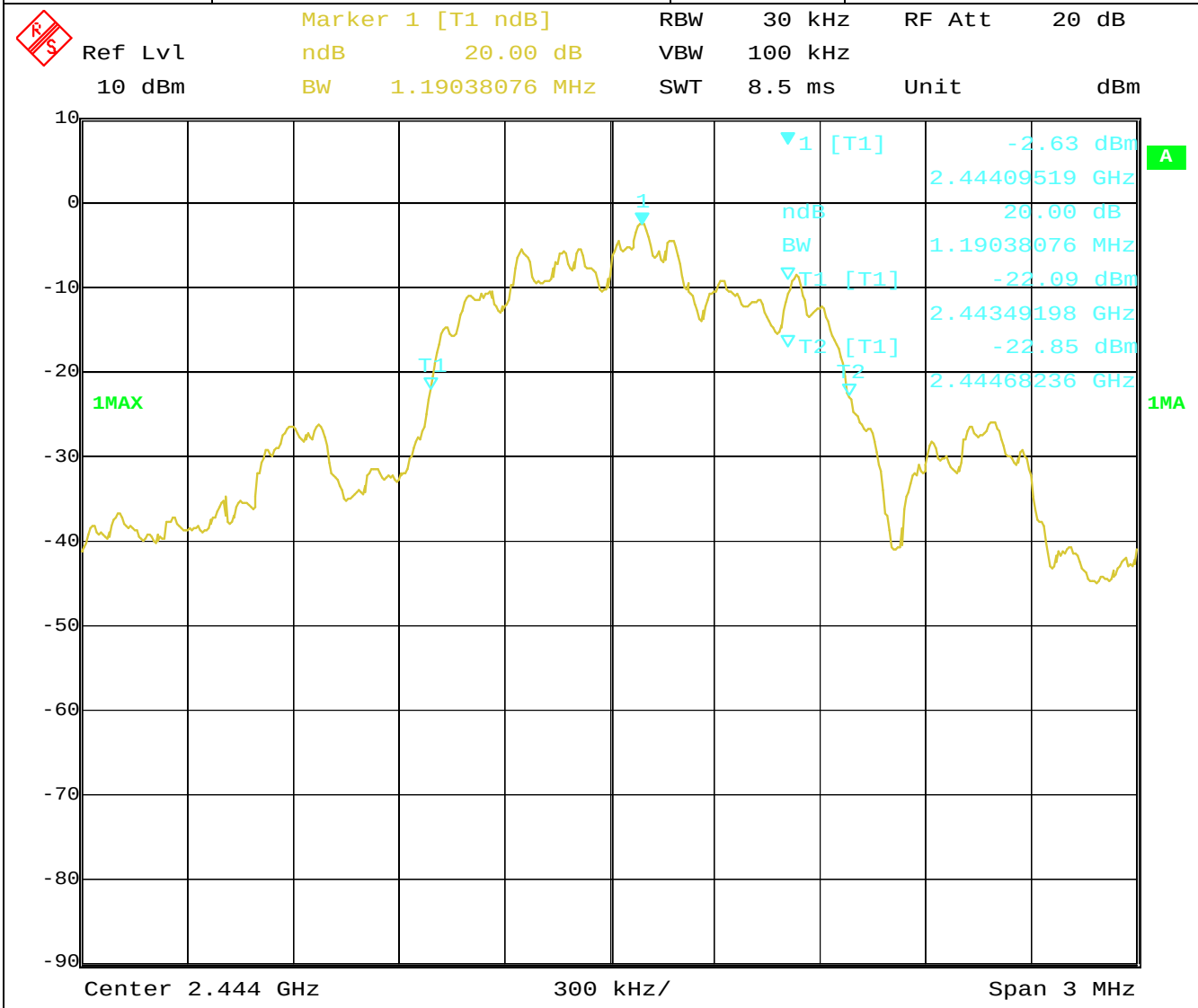
Product:	MT Micro Car And Romote	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.0V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.19MHz	--	--



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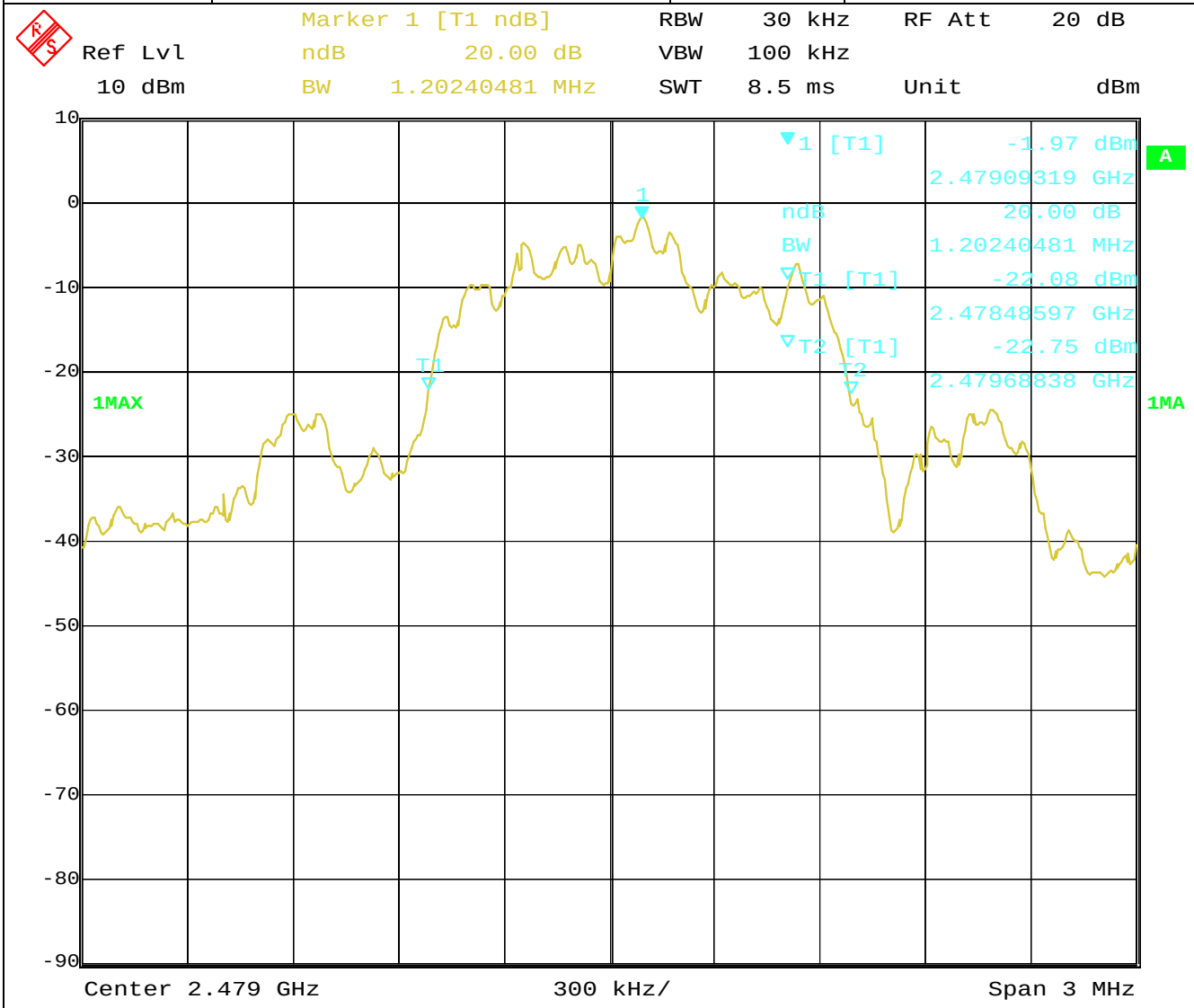
Product:	MT Micro Car And Romote	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.0V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.20MHz	--	--



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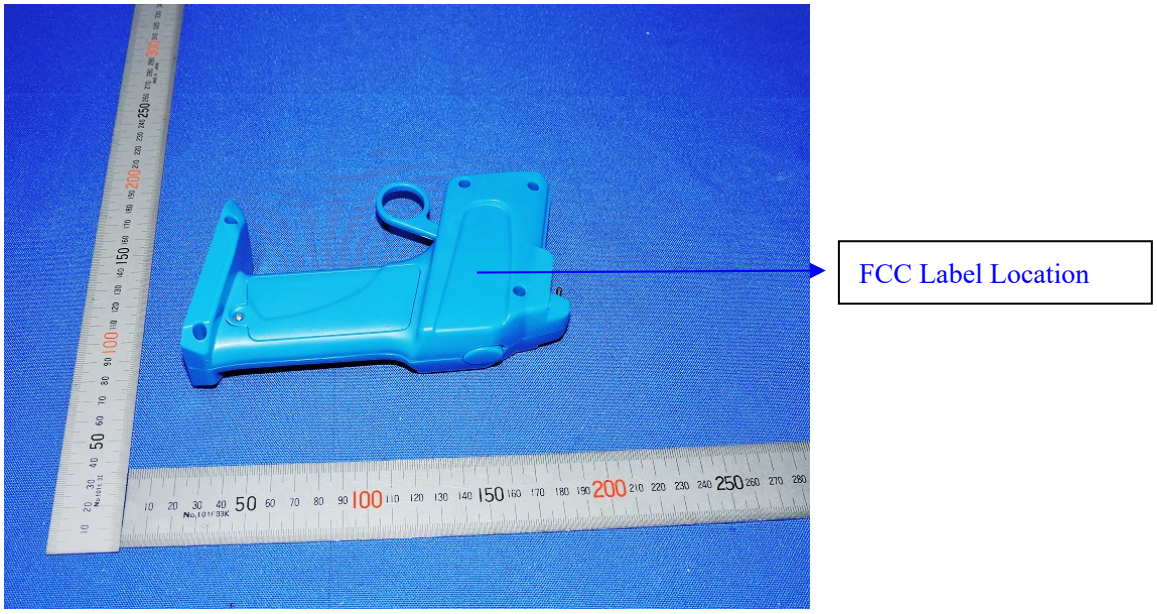
10.0 FCC ID Label

FCC ID: 2APNP-OT027

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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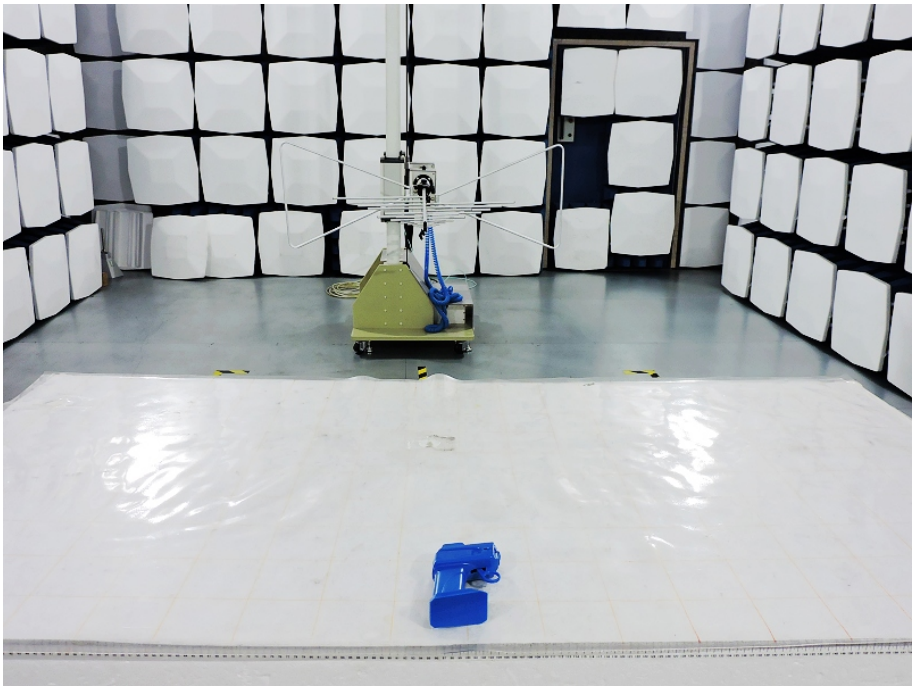
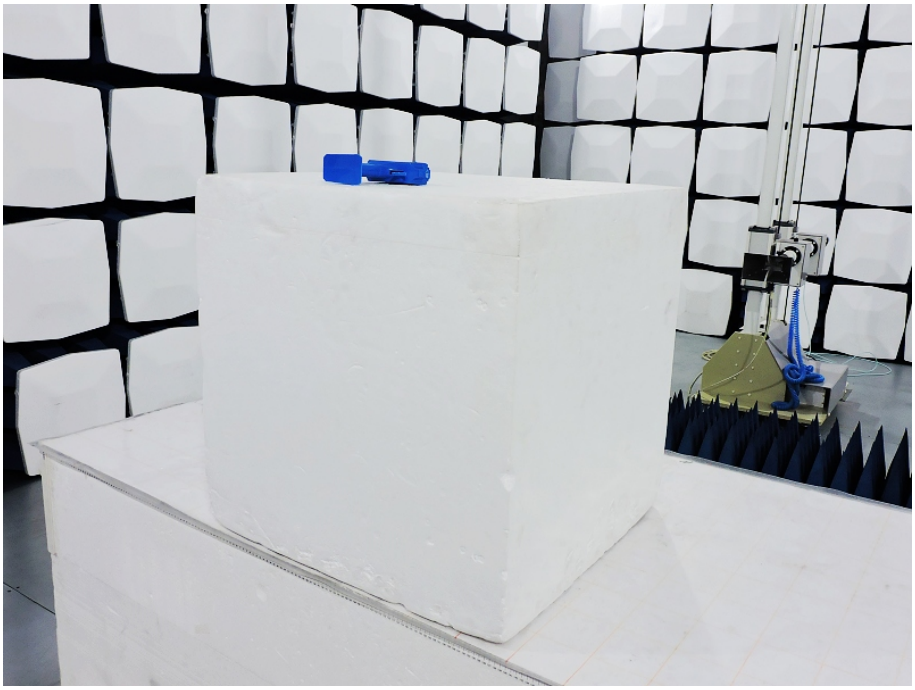
11.0 Photo of testing

11.1 Conducted test View

N/A

11.2 Radiated emission test view





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11.3 Photographs – EUT

Outside View

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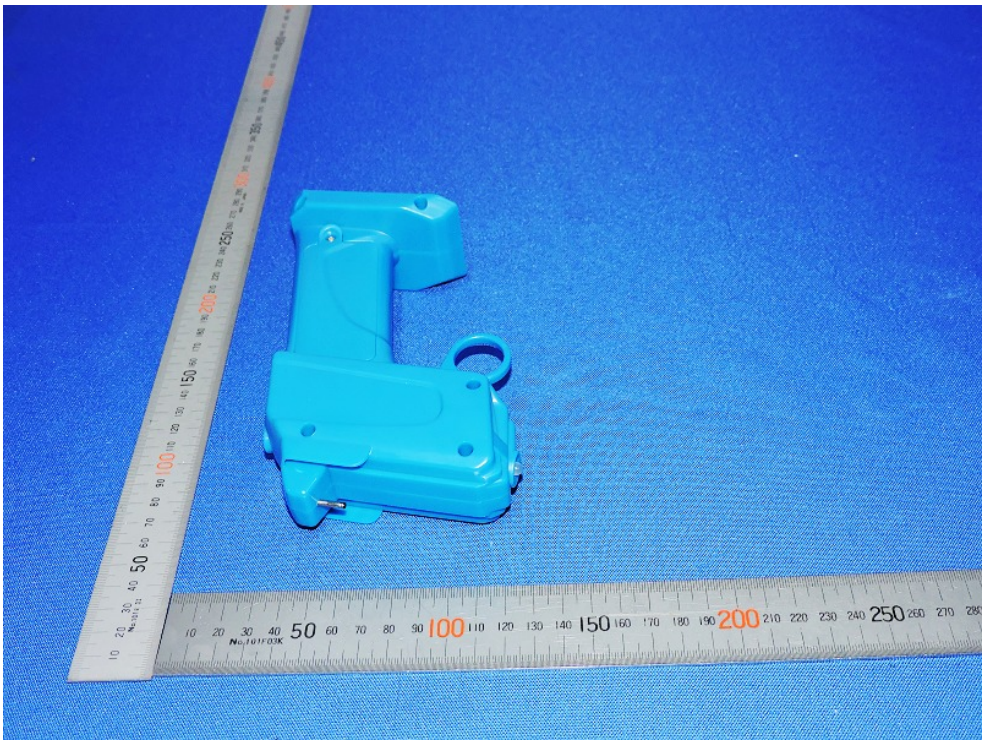
Outside View



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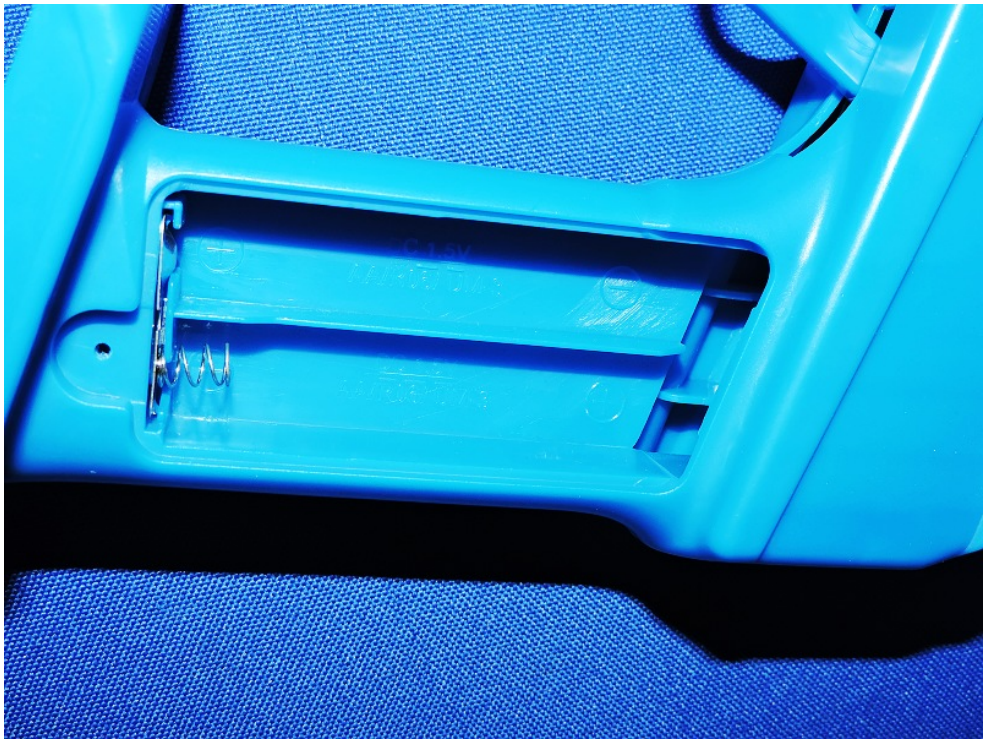
Outside View



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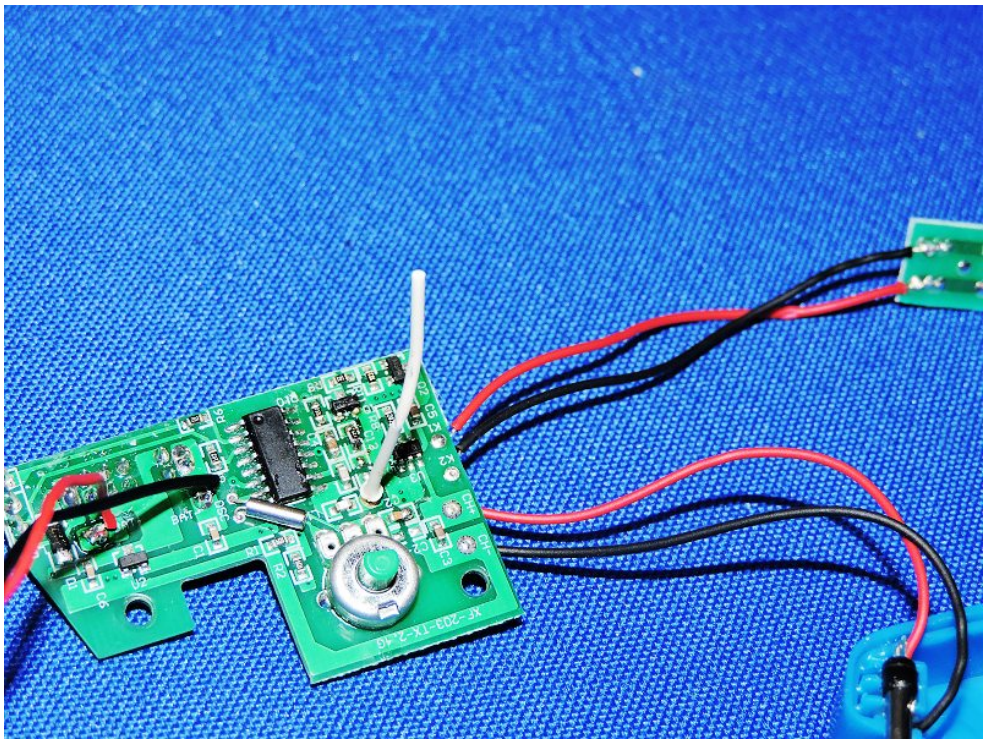
Inside view



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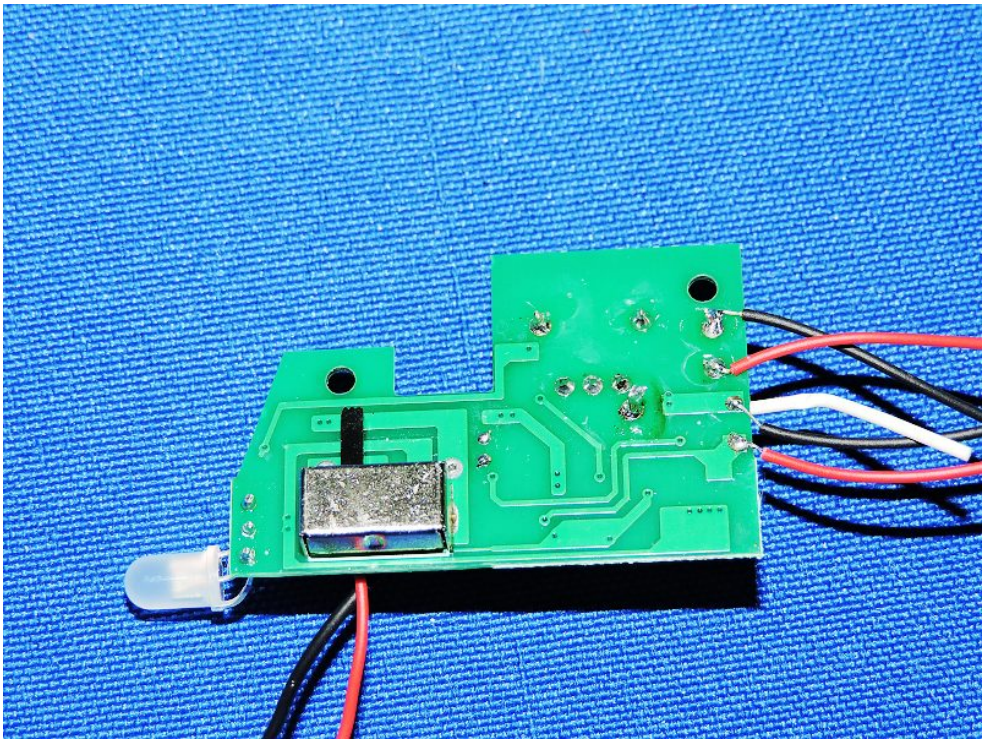
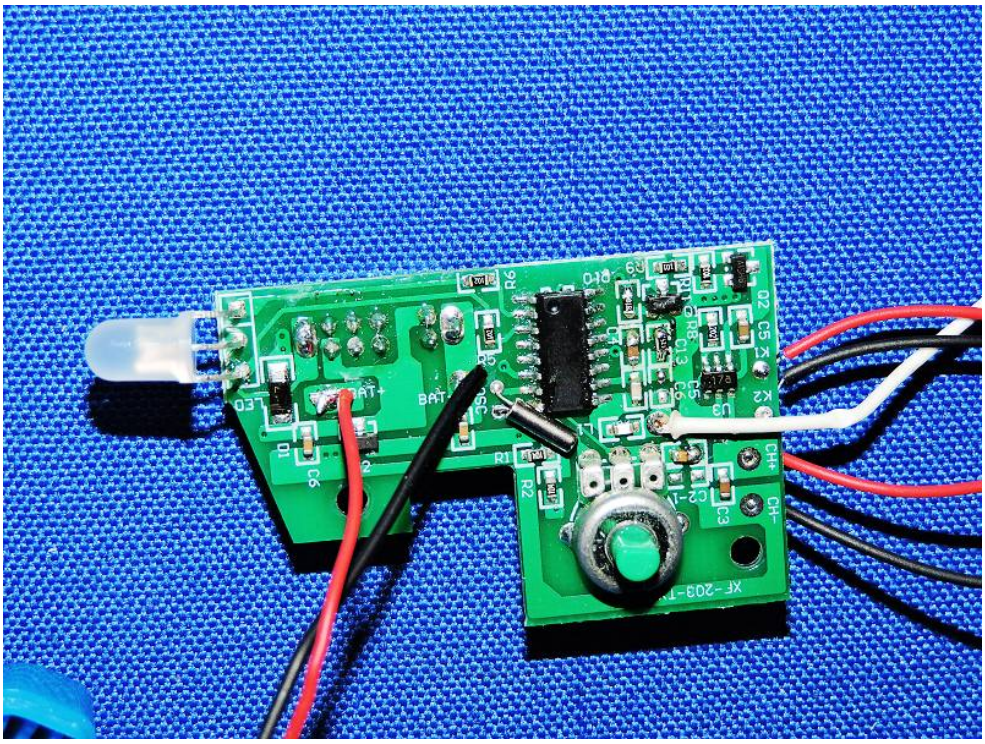
Inside view





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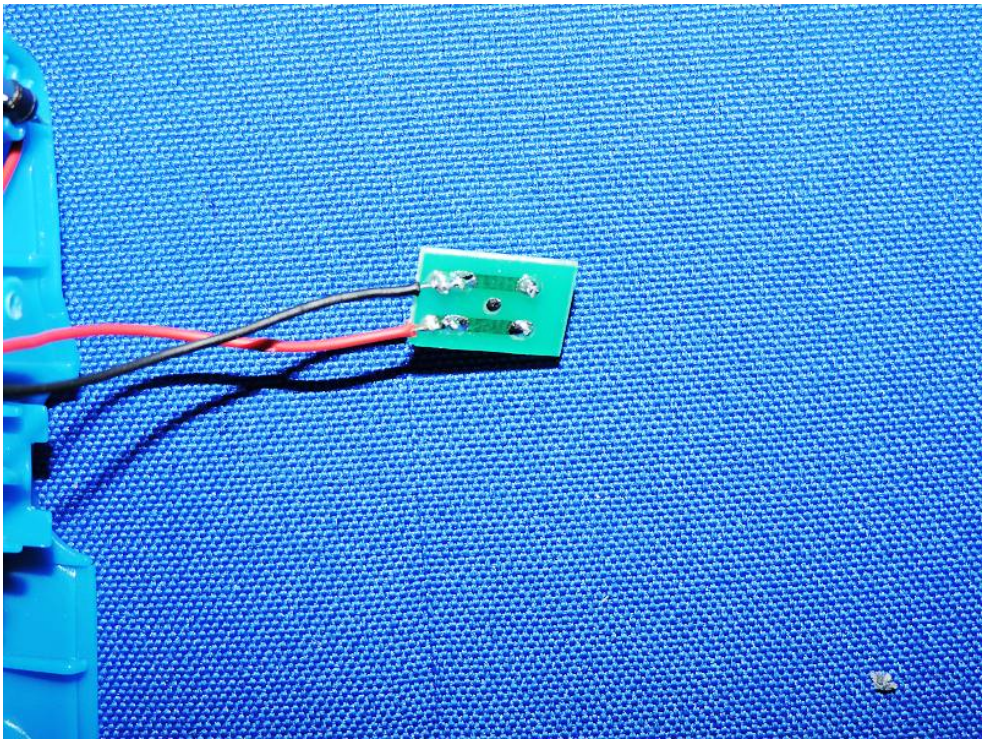
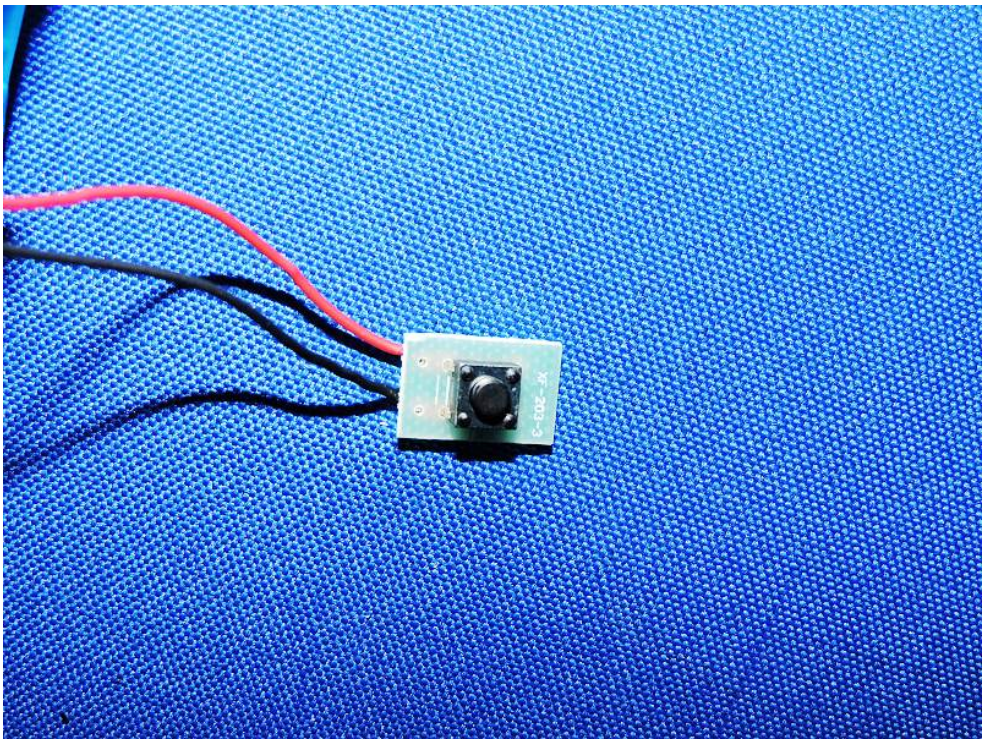
Inside view





--End of the report--

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