

TEST REPORT

Applicant: Shantou Chenghai Lihuang Plastic Toys Co.,Ltd

Address of Applicant: No.1,1 Road, Huaihe Industrial park,Lianxia,
Chenghai,Shantou, China

Manufacturer: Shantou Chenghai Lihuang Plastic Toys Co.,Ltd

**Address of
Manufacturer:** No.1,1 Road, Huaihe Industrial park,Lianxia,
Chenghai,Shantou, China

Equipment Under Test (EUT)

Product Name: Remote control car

Model No.: Refer to page 5.

Trade Mark: N/A

FCC ID: 2AJGILHWJLHC026-1

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

Date of sample receipt: Mar. 30, 2021

Date of Test: Mar. 30, 2021~Apr. 09, 2021

Date of report issued: Apr. 10, 2021

Test Result : PASS *

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

Authorized Signature:



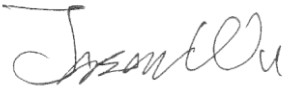
Robinson Lo


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	Apr. 10, 2021	Original

Prepared By:  **Date:** Apr. 10, 2021
Tested/Project Engineer

Check By:  **Date:** Apr. 10, 2021
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

Remarks:

1. Test according to ANSI C63.10: 2013.
2. Pass: The EUT complies with the essential requirements in the standard.
3. N/A: Not applicable

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	30MHz-200MHz	3.8039dB	(1)
Radiated Emission	200MHz-1GHz	3.9679dB	(1)
Radiated Emission	1GHz-18GHz	4.29dB	(1)
Radiated Emission	18GHz-40GHz	3.30dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	3.44dB	(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:	Remote control car
Model No.:	LH-C026-1,MT1265,MT1251,LH-C001,LH-C002,LH-C003,LH-C004, LH-C005,LH-C006,LH-C008,LH-C008S,LH-C009,LH-C009A,LH-C010, LH-C010B-1,LH-C010B-2,LH-C011,LH-C011S,LH-C012,LH-C013,LH-C013S,LH-C014,LH-C014B,LH-C014S,LH-C015A,LH-C015B,LH-C015C, LH-C015,LH-C016S,LH-C018,LH-C019S,LH-C020,LH-C020S,LH-C021, LH-C021S,LH-C022,LH-C022S,LHC023A,LH-C023B,LH-C025A,LH-C025A-1,LH-C025A-2,LH-C025A-3,LH-C026-2,LH-C026-3,LH-C026S-1,LH-C026S-2,LH-C026S-3,LH-C028,LH-C028S,LH-C029,LH-C029B, MT1322, MT1323, MT1324, MT1265, MT1251, 18807, 18832, LH-C026
Test Model No.:	LH-C026-1
<i>Remark: All above models are identical in the same PCB layout, interior structure and electrical circuits. The difference is product appearance and model name for commercial purpose.</i>	
Serial No.:	/
Hardware Version:	/
Software Version:	/
Test sample(s) ID:	GTSL202104000161-1
Operation Frequency:	2405MHz~2475MHz
Channel numbers:	67
Channel separation:	1MHz
Modulation type:	GFSK
Antenna Type:	Integrated antenna
Antenna gain:	2dBi
Power supply:	DC 3.0V(2*1.5V "AA" battery) (for remote control)

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2405	22	2428	44	2452	66	2475
1	2406	23	2429	45	2453		
2	2407	24	2430	46	2454		
3	2408	25	2431	47	2455		
4	2409	26	2433	48	2456		
5	2410	27	2434	49	2457		
6	2411	28	2435	50	2458		
7	2412	29	2436	51	2459		
8	2413	30	2437	52	2460		
9	2414	31	2438	53	2461		
10	2415	32	2439	54	2462		
11	2417	33	2440	55	2463		
12	2418	34	2441	56	2465		
13	2419	35	2442	57	2466		
14	2420	36	2443	58	2467		
15	2421	37	2444	59	2468		
16	2422	38	2445	60	2469		
17	2423	39	2446	61	2470		
18	2424	40	2447	62	2471		
19	2425	41	2449	63	2472		
20	2426	42	2450	64	2473		
21	2427	43	2451	65	2474		

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	2405MHz
The middle channel	2445MHz
The Highest channel	2475MHz

5.2 Test mode

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

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)	86.33	89.51	72.61

5.3 Description of Support Units

Manufacturer	Description	Model	Serial Number
-	-	-	-

5.4 Deviation from Standards

None.

5.5 Abnormalities from Standard Conditions

None.

5.6 Test Facility

<p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none"> ● 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. ● IC —Registration No.: 9079A 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 ● NVLAP (LAB CODE:600179-0) Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). LAB CODE:600179-0

5.7 Test Location

All tests were performed at:
<p>Global United Technology Services Co., Ltd.</p> <p>Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102</p> <p>Tel: 0755-27798480</p> <p>Fax: 0755-27798960</p>

5.8 Additional Instructions

Test Software	Special test AT command provided by manufacturer
Power level setup	Default

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. 02 2020	July. 01 2025
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June. 25 2020	June. 24 2021
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 25 2020	June. 24 2021
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 25 2020	June. 24 2021
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 25 2020	June. 24 2021
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	June. 25 2020	June. 24 2021
9	Coaxial Cable	GTS	N/A	GTS211	June. 25 2020	June. 24 2021
10	Coaxial cable	GTS	N/A	GTS210	June. 25 2020	June. 24 2021
11	Coaxial Cable	GTS	N/A	GTS212	June. 25 2020	June. 24 2021
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 25 2020	June. 24 2021
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 25 2020	June. 24 2021
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 25 2020	June. 24 2021
15	Band filter	Amindeon	82346	GTS219	June. 25 2020	June. 24 2021
16	Power Meter	Anritsu	ML2495A	GTS540	June. 25 2020	June. 24 2021
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 25 2020	June. 24 2021
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 25 2020	June. 24 2021
19	Splitter	Agilent	11636B	GTS237	June. 25 2020	June. 24 2021
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 25 2020	June. 24 2021
21	Breitband hornantenne	SCHWARZBECK	BBHA 9170	GTS579	Oct. 18 2020	Oct. 17 2021
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 18 2020	Oct. 17 2021
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 18 2020	Oct. 17 2021
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 25 2020	June. 24 2021

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	7.3(L)x3.1(W)x2.9(H)	GTS252	May.15 2019	May.14 2022
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 25 2020	June. 24 2021
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 25 2020	June. 24 2021
4	ENV216 2-L-V-NETZNACHB.DE	ROHDE&SCHWARZ	ENV216	GTS226	June. 25 2020	June. 24 2021
5	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
7	Thermo meter	KTJ	TA328	GTS233	June. 25 2020	June. 24 2021
8	Absorbing clamp	Elektronik-Feinmechanik	MDS21	GTS229	June. 25 2020	June. 24 2021
9	ISN	SCHWARZBECK	NTFM 8158	GTD565	June. 25 2020	June. 24 2021

RF Conducted Test:						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	June. 25 2020	June. 24 2021
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 25 2020	June. 24 2021
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June. 25 2020	June. 24 2021
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	June. 25 2020	June. 24 2021
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	June. 25 2020	June. 24 2021
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	June. 25 2020	June. 24 2021
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	June. 25 2020	June. 24 2021
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	June. 25 2020	June. 24 2021

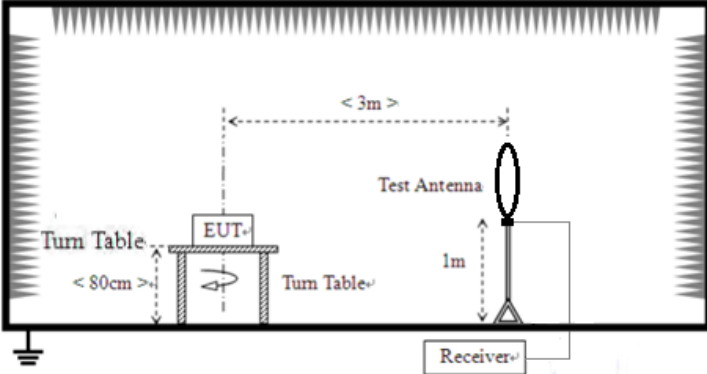
General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	June. 25 2020	June. 24 2021
2	Barometer	ChangChun	DYM3	GTS255	June. 25 2020	June. 24 2021

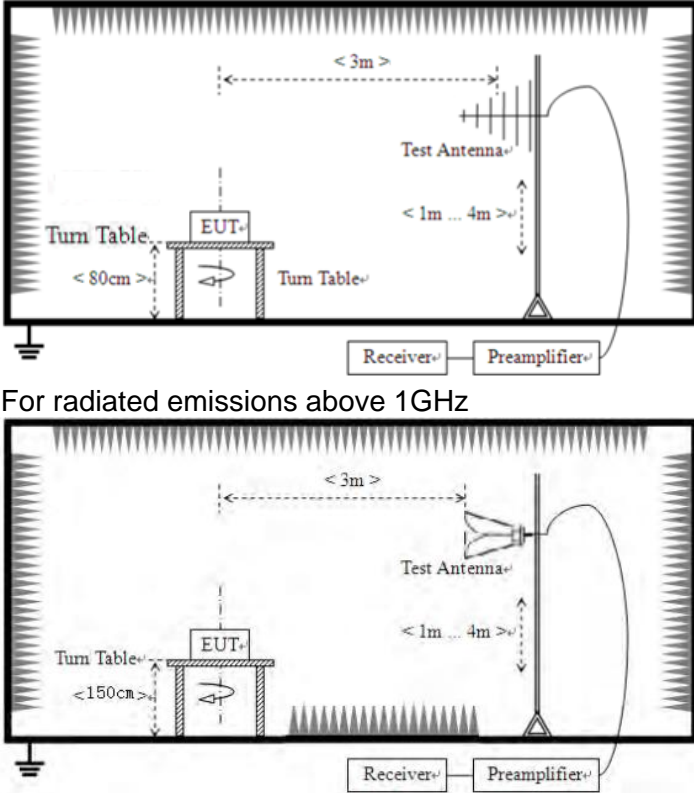
7 Test results and Measurement Data

7.1 Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203
<p>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.</p> <p>15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.</p>	
EUT Antenna:	
<p><i>The antenna is Integrated antenna, the best case gain of the antenna is 2dBi, reference to the appendix II for details</i></p>	

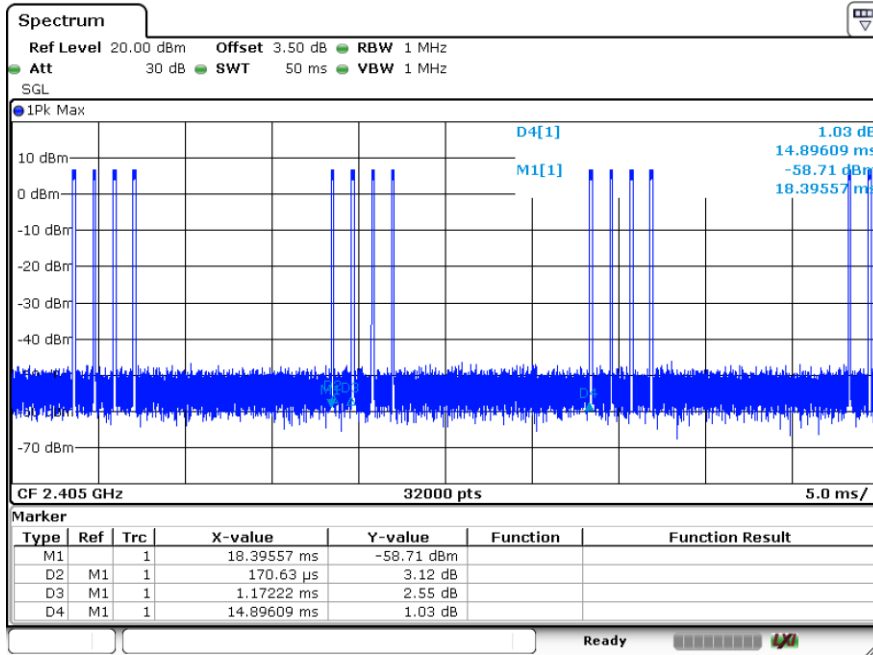
7.2 Radiated Emission Method

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	Remark
	9kHz-150kHz	Quasi-peak	200Hz	300Hz	Quasi-peak Value
	150kHz-30MHz	Quasi-peak	9kHz	10kHz	Quasi-peak Value
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
Peak		1MHz	(1/T)Hz	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 (uV/m)		Remark	
	0.009MHz-0.490MHz	2400/F(kHz) @300m		Quasi-peak Value	
	0.490MHz-1.705MHz	24000/F(kHz) @30m		Quasi-peak Value	
	1.705MHz-30.0MHz	30 @30m		Quasi-peak Value	
	30MHz-88MHz	100 @3m		Quasi-peak Value	
	88MHz-216MHz	150 @3m		Quasi-peak Value	
	216MHz-960MHz	200 @3m		Quasi-peak Value	
	960MHz-1GHz	500 @3m		Quasi-peak Value	
	Above 1GHz	500 @3m		Average Value	
		5000 @3m		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:	For radiated emissions from 9kHz to 30MHz				
	 <p>The diagram illustrates the test setup for radiated emissions from 9kHz to 30MHz. It shows an Equipment Under Test (EUT) placed on a turntable. The turntable is positioned at a height of less than 80cm. A test antenna is positioned at a distance of 3m from the EUT. A receiver is positioned at a distance of 1m from the test antenna. The setup is shown within a shielded enclosure.</p>				
	For radiated emissions from 30MHz to 1GHz				

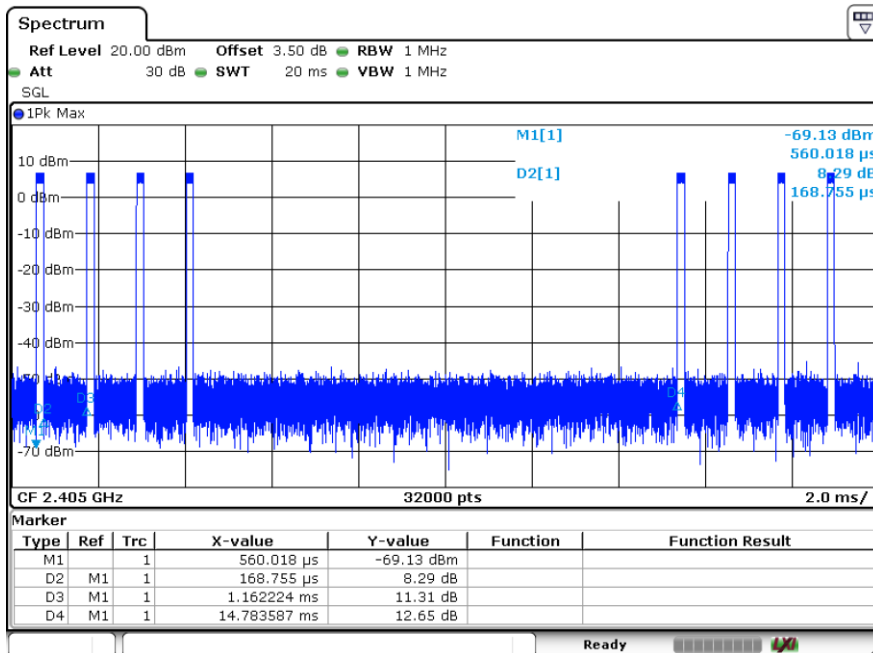
	 <p>For radiated emissions above 1GHz</p>						
<p>Test Procedure:</p>	<ol style="list-style-type: none"> 1. The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position 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 5.2 for details</p>						
<p>Test environment:</p>	<table border="1"> <tr> <td>Temp.:</td> <td>25 °C</td> <td>Humid.:</td> <td>52%</td> <td>Press.:</td> <td>1012mbar</td> </tr> </table>	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar
Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar		
<p>Test voltage:</p>	<p>DC 3.0V</p>						
<p>Test results:</p>	<p>Pass</p>						

Measurement data:

7.2.1 Duty cycle measurement:



$$\text{Duty cycle} = 0.17063 / 14.89609 = 0.01145$$



$$\text{Duty cycle} = 0.168755 / 14.783587 = 0.01142$$

7.2.2 Field Strength of The Fundamental Signal

Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2405	88.34	-5.65	82.69	114.00	-31.31	Vertical
2405	95.16	-5.65	89.51	114.00	-24.49	Horizontal
2445	84.57	-5.32	79.25	114.00	-34.75	Vertical
2445	91.33	-5.32	86.01	114.00	-27.99	Horizontal
2475	83.24	-5.05	78.19	114.00	-35.81	Vertical
2475	90.69	-5.05	85.64	114.00	-28.36	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2405	71.64	-5.65	65.99	94.00	-28.01	Vertical
2405	78.87	-5.65	73.22	94.00	-20.78	Horizontal
2445	68.57	-5.32	63.25	94.00	-30.75	Vertical
2445	75.16	-5.32	69.84	94.00	-24.16	Horizontal
2475	66.20	-5.05	61.15	94.00	-32.85	Vertical
2475	73.25	-5.05	68.20	94.00	-25.80	Horizontal

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

7.2.3 Spurious emissions

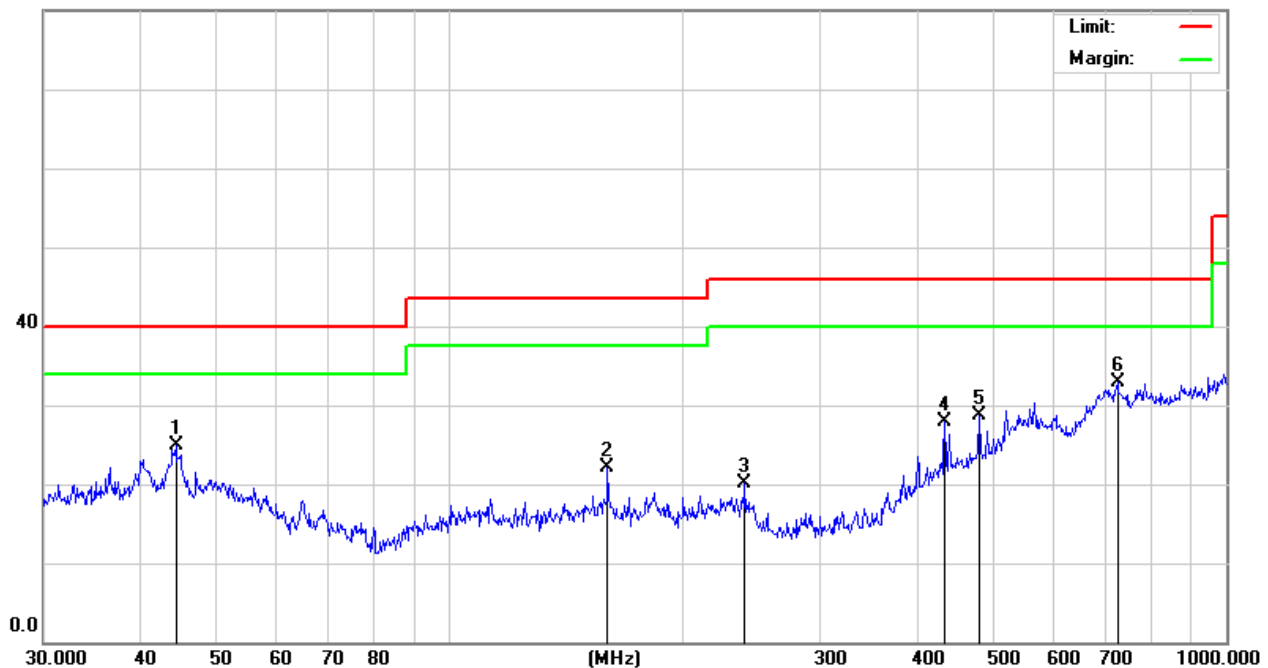
■ Below 30MHz

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o), the test result no need to report.

■ Below 1GHz

Horizontal:

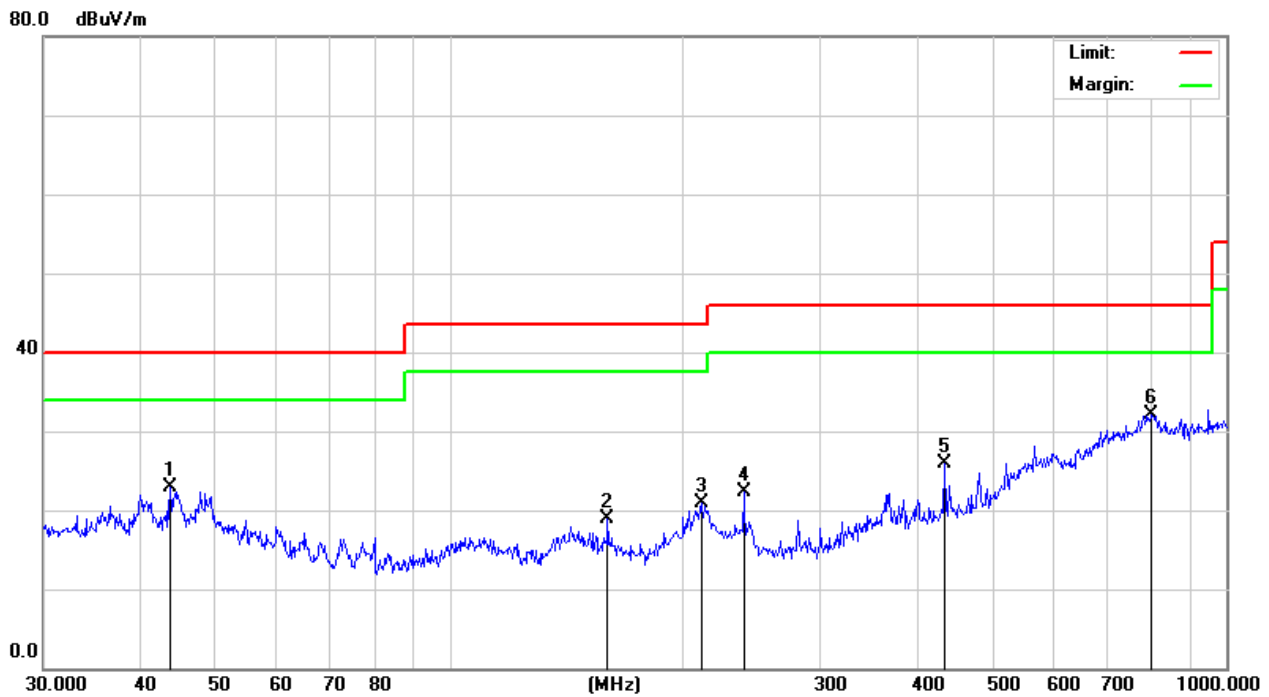
80.0 dBuV/m



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		44.4308	27.10	-2.20	24.90	40.00	-15.10	peak
2		159.7844	28.67	-6.54	22.13	43.50	-21.37	peak
3		239.9874	26.60	-6.52	20.08	46.00	-25.92	peak
4		434.0651	28.90	-0.95	27.95	46.00	-18.05	peak
5		480.5276	28.13	0.56	28.69	46.00	-17.31	peak
6	*	724.2611	25.52	7.29	32.81	46.00	-13.19	peak

Final Level =Receiver Read level + Correct Factor

Vertical:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		43.6584	27.33	-4.44	22.89	40.00	-17.11	peak
2		159.7844	27.58	-8.61	18.97	43.50	-24.53	peak
3		210.7860	24.79	-3.97	20.82	43.50	-22.68	peak
4		239.1473	28.85	-6.60	22.25	46.00	-23.75	peak
5		434.0651	29.39	-3.53	25.86	46.00	-20.14	peak
6	*	801.7863	24.49	7.67	32.16	46.00	-13.84	peak

Final Level =Receiver Read level + Correct Factor

■ Above 1GHz

Test channel:	Lowest channel
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4810.332	51.57	5.07	56.64	74.00	-17.36	Vertical
7215.174	51.33	7.07	58.4	74.00	-15.60	Vertical
4810.332	56.49	5.07	61.56	74.00	-12.44	Horizontal
7215.174	51.27	7.07	58.34	74.00	-15.66	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4810.332	34.77	5.07	39.84	54.00	-14.16	Vertical
7215.174	33.76	7.07	40.83	54.00	-13.17	Vertical
4810.332	40.37	5.07	45.44	54.00	-8.56	Horizontal
7215.174	35.09	7.07	42.16	54.00	-11.84	Horizontal

Remarks:

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.

Test channel:	Middle
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4890.559	51.49	5.15	56.64	74.00	-17.36	Vertical
7335.637	49.63	7.59	57.22	74.00	-16.78	Vertical
4890.559	55.85	5.15	61.00	74.00	-13.00	Horizontal
7335.637	50.49	7.59	58.08	74.00	-15.92	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4890.559	33.82	5.15	38.97	54.00	-15.03	Vertical
7335.637	33.64	7.59	41.23	54.00	-12.77	Vertical
4890.559	39.90	5.15	45.05	54.00	-8.95	Horizontal
7335.637	33.06	7.59	40.65	54.00	-13.35	Horizontal

Remarks:

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
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4950.274	50.17	5.21	55.38	74.00	-18.62	Vertical
7425.176	46.85	7.99	54.84	74.00	-19.16	Vertical
4950.274	54.29	5.21	59.5	74.00	-14.50	Horizontal
7425.176	48.27	7.99	56.26	74.00	-17.74	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4950.274	34.28	5.21	39.49	54.00	-14.51	Vertical
7425.176	29.68	7.99	37.67	54.00	-16.33	Vertical
4950.274	38.32	5.21	43.53	54.00	-10.47	Horizontal
7425.176	30.53	7.99	38.52	54.00	-15.48	Horizontal

Remarks:

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.*

7.2.4 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)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2373.300	57.49	-5.92	51.57	74.00	-22.43	Vertical
2390.000	53.67	-5.79	47.88	74.00	-26.12	Vertical
2373.300	66.28	-5.92	60.36	74.00	-13.64	Horizontal
2390.000	59.74	-5.79	53.95	74.00	-20.05	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
-	-	-	-	-	-	Vertical
-	-	-	-	-	-	Vertical
2373.300	55.99	-5.92	50.07	54.00	-3.93	Horizontal
-	-	-	-	-	-	Horizontal

Test channel:	Highest channel
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2483.500	60.24	-4.98	55.26	74.00	-18.74	Vertical
2483.500	51.85	-4.98	46.87	74.00	-27.13	Horizontal

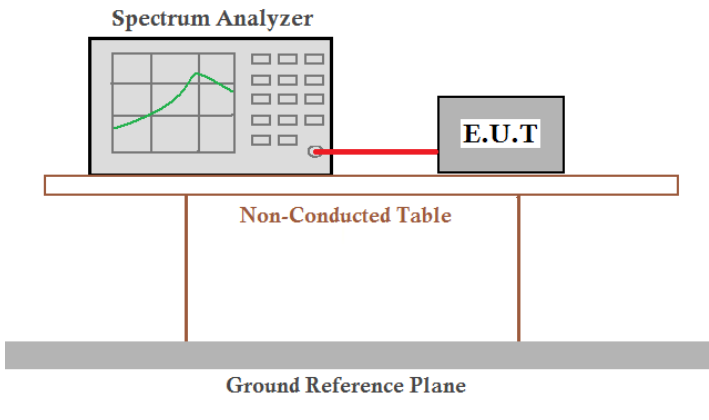
Average value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2483.500	48.61	-4.98	43.63	54.00	-10.37	Vertical
-	-	-	-	-	-	Horizontal

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 two vertical legs. Below the table is a Ground Reference Plane.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data

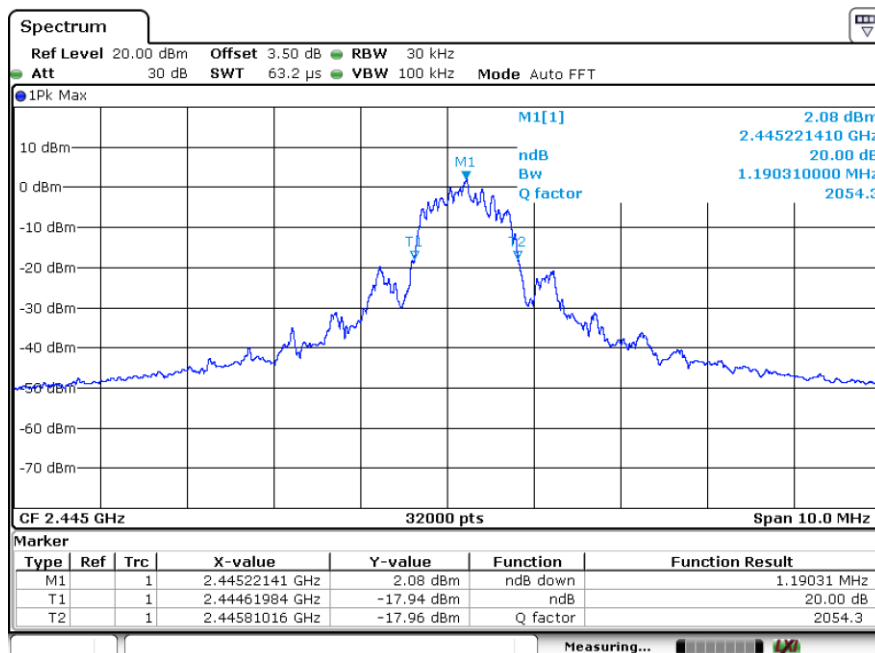
Test channel	20dB bandwidth(MHz)	Result
Lowest	1.18969	Pass
Middle	1.19031	Pass
Highest	1.24437	Pass

Test plot as follows:

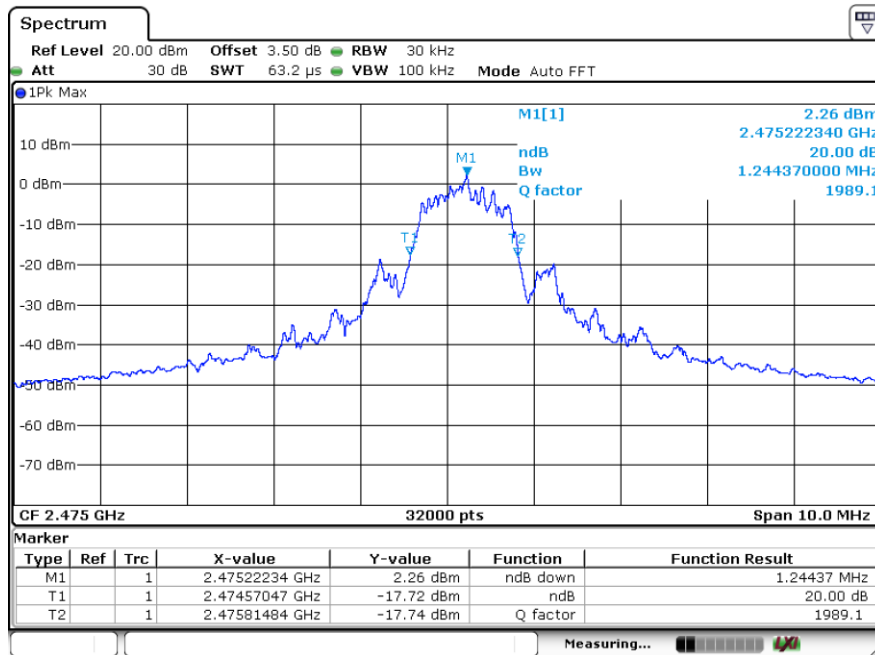
Lowest channel



Middle channel



Middle channel



8 Test Setup Photo

Reference to the **appendix I** for details.

9 EUT Constructional Details

Reference to the **appendix II** for details.

-----End-----