

TEST REPORT

Applicant: HEBEI FANWO IMP.&EXP.CO.,LTD

Address of Applicant: NO.8 DASANZHOU INDUSTRIAL AREA, FENGJIAZHAI TOWN, GUANGZONG COUNTY, XINGTAI CICY, HEBEI PROVINCE, China

Manufacturer/Factory: HEBEI FANWO IMP.&EXP.CO.,LTD

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Equipment Under Test (EUT)

Product Name: Plastic Kids Ride On Car

Model No.: MT5001

FCC ID: 2A6HQ-MT5001

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

Date of sample receipt: April 18, 2022

Date of Test: April 19, 2022-May 09, 2022

Date of report issued: May 09, 2022

Test Result : PASS *

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

Authorized Signature:



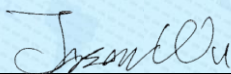
Robinson Luo
Laboratory Manager

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	May 09, 2022	Original

Prepared By:

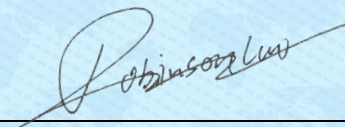


Date:

May 09, 2022

Project Engineer

Check By:



Date:

May 09, 2022

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 GENERAL DESCRIPTION OF EUT	5
5.2 TEST MODE	7
5.3 DESCRIPTION OF SUPPORT UNITS	7
5.4 DEVIATION FROM STANDARDS	7
5.5 ABNORMALITIES FROM STANDARD CONDITIONS	7
5.6 TEST FACILITY	7
5.7 TEST LOCATION	7
5.8 ADDITIONAL INSTRUCTIONS	7
6 TEST INSTRUMENTS LIST	8
7 TEST RESULTS AND MEASUREMENT DATA	10
7.1 ANTENNA REQUIREMENT	10
7.2 RADIATED EMISSION METHOD	11
7.2.1 Field Strength of The Fundamental Signal	13
7.2.2 Spurious emissions	14
7.2.3 Bandedge emissions	19
7.3 20dB OCCUPY BANDWIDTH	20
8 TEST SETUP PHOTO	22
9 EUT CONSTRUCTIONAL DETAILS	22

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.

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz-30MHz	3.1dB	(1)
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:	Plastic Kids Ride On Car
Model No.:	MT5001
Serial No.:	031462750011
Test sample(s) ID:	GTS202204000184-1
Sample(s) Status	Engineered sample
Operation Frequency:	2407MHz~2473MHz
Channel numbers:	67
Modulation type:	GFSK
Antenna Type:	PCB antenna
Antenna gain:	0dBi(Declared by applicant)
Power supply:	TX: DC 3.0V (2*1.5V Size “AAA” Battery)

Note:The report is only for TX device

Operation Frequency each of channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2407	18	2424	35	2441	52	2458
2	2408	19	2425	36	2442	53	2459
3	2409	20	2426	37	2443	54	2460
4	2410	21	2427	38	2444	55	2461
5	2411	22	2428	39	2445	56	2462
6	2412	23	2429	40	2446	57	2463
7	2413	24	2430	41	2447	58	2464
8	2414	25	2431	42	2448	59	2465
9	2415	26	2432	43	2449	60	2466
10	2416	27	2433	44	2450	61	2467
11	2417	28	2434	45	2451	62	2468
12	2418	29	2435	46	2452	63	2469
13	2419	30	2436	47	2453	64	2470
14	2420	31	2437	48	2454	65	2471
15	2421	32	2438	49	2455	66	2472
16	2422	33	2439	50	2456	67	2473
17	2423	34	2440	51	2457		

The test frequencies are below:

Channel	Frequency
The lowest channel	2407MHz
The middle channel	2440MHz
The Highest channel	2473MHz

5.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode.
Remark: New battery is used during all test.	

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)	79.39	80.11	78.14

5.3 Description of Support Units

None.

5.4 Deviation from Standards

None.

5.5 Abnormalities from Standard Conditions

None.

5.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations: ● FCC—Registration No.: 381383 Designation Number: CN5029 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. ● IC —Registration No.: 9079A CAB identifier: CN0091 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 ● NVLAP (LAB CODE:600179-0) Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).
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5.7 Test Location

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

5.8 Additional Instructions

Test Software	Special test 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. 24 2021	June. 23 2022
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 24 2021	June. 23 2022
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 24 2021	June. 23 2022
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 24 2021	June. 23 2022
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	June. 24 2021	June. 23 2022
9	Coaxial Cable	GTS	N/A	GTS211	June. 24 2021	June. 23 2022
10	Coaxial cable	GTS	N/A	GTS210	June. 24 2021	June. 23 2022
11	Coaxial Cable	GTS	N/A	GTS212	June. 24 2021	June. 23 2022
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 24 2021	June. 23 2022
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 24 2021	June. 23 2022
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 24 2021	June. 23 2022
15	Band filter	Amindeon	82346	GTS219	June. 24 2021	June. 23 2022
16	Power Meter	Anritsu	ML2495A	GTS540	June. 24 2021	June. 23 2022
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 24 2021	June. 23 2022
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 24 2021	June. 23 2022
19	Splitter	Agilent	11636B	GTS237	June. 24 2021	June. 23 2022
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 24 2021	June. 23 2022
21	Breitband hornantenne	SCHWARZBECK	BBHA 9170	GTS579	Oct. 17 2021	Oct. 16 2022
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 17 2021	Oct. 16 2022
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 17 2021	Oct. 16 2022
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 24 2021	June. 23 2022

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. 24 2021	June. 23 2022
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 24 2021	June. 23 2022
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June. 24 2021	June. 23 2022
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	June. 24 2021	June. 23 2022
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	June. 24 2021	June. 23 2022
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	June. 24 2021	June. 23 2022
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	June. 24 2021	June. 23 2022
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	June. 24 2021	June. 23 2022

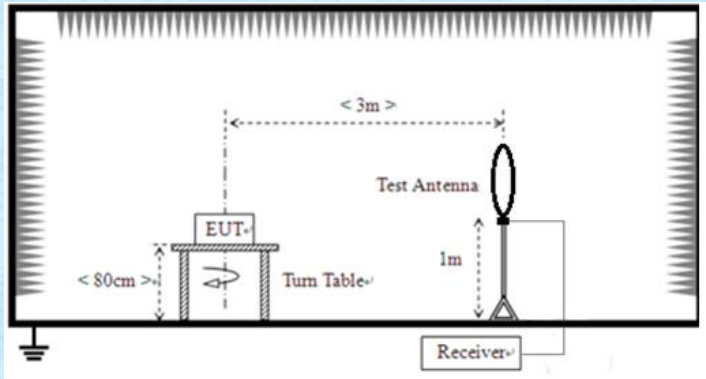
General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	June. 24 2021	June. 23 2022
2	Barometer	ChangChun	DYM3	GTS255	June. 24 2021	June. 23 2022

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. 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.	
EUT Antenna:	
<i>The antenna is PCB antenna, the best case gain of the are antennas 0dBi, reference to the appendix II for details</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	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	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 (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				
					
	For radiated emissions from 30MHz to1GHz				

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
2407.00	85.37	27.43	2.93	38.88	76.85	114.00	-37.15	Vertical
2407.00	82.29	27.43	2.93	38.88	73.77	114.00	-40.23	Horizontal
2440.00	88.58	27.55	2.96	38.98	80.11	114.00	-33.89	Vertical
2440.00	83.04	27.55	2.96	38.98	74.57	114.00	-39.43	Horizontal
2473.00	87.18	27.64	2.99	39.05	78.76	114.00	-35.24	Vertical
2473.00	79.79	27.64	2.99	39.05	71.37	114.00	-42.63	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
2407.00	72.71	27.43	2.93	38.88	64.19	94.00	-29.81	Vertical
2407.00	70.60	27.43	2.93	38.88	62.08	94.00	-31.92	Horizontal
2440.00	74.38	27.55	2.96	38.98	65.91	94.00	-28.09	Vertical
2440.00	71.14	27.55	2.96	38.98	62.67	94.00	-31.33	Horizontal
2473.00	73.34	27.64	2.99	39.05	64.92	94.00	-29.08	Vertical
2473.00	72.15	27.64	2.99	39.05	63.73	94.00	-30.27	Horizontal

Note: For fundamental frequency , RBW>20dB BW, VBW>=RBW, PK detector for PK value, RMS detector for AV value

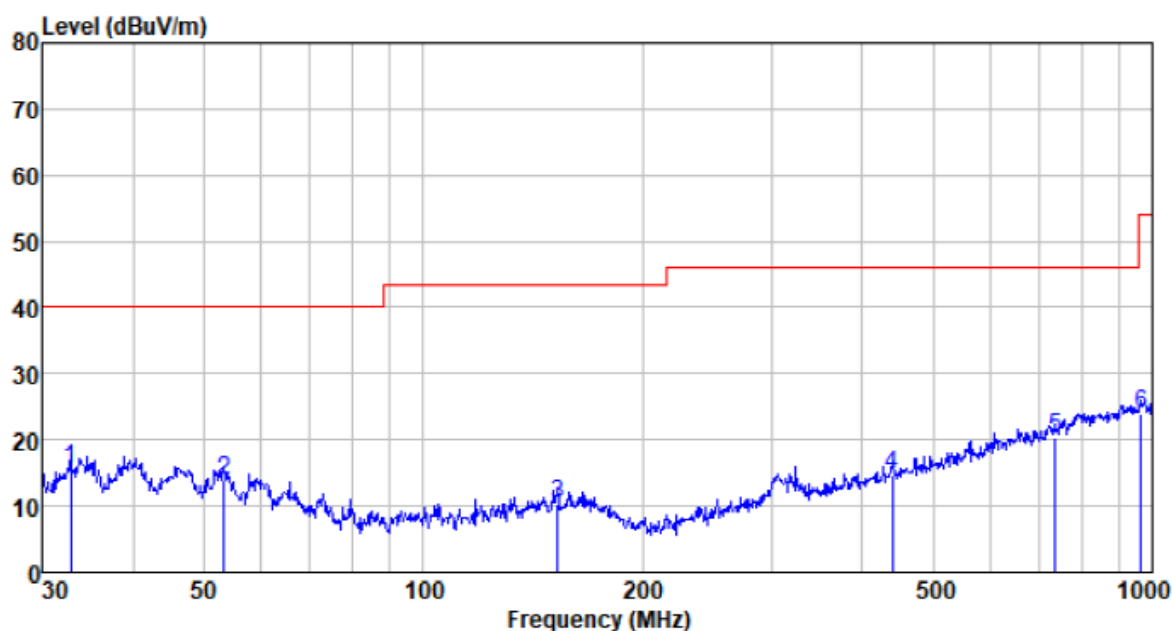
7.2.2 Spurious emissions

■ 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 reported.

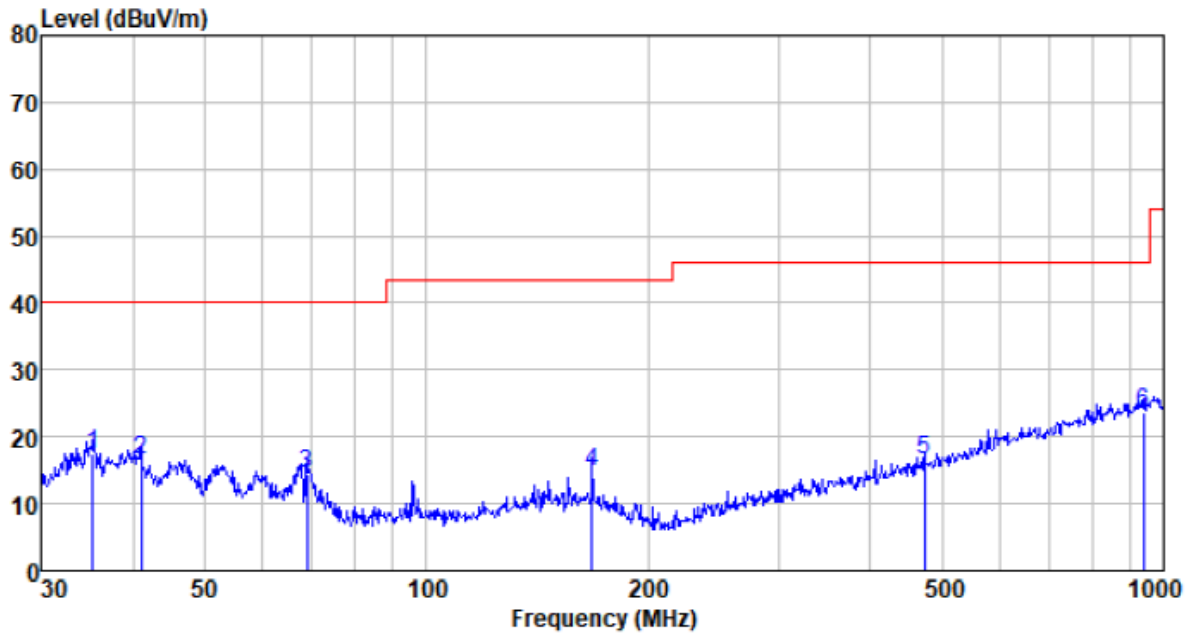
■ Below 1GHz

Horizontal:



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
32.864	38.02	12.36	0.58	35.21	15.75	40.00	-24.25	QP
53.318	36.67	12.71	0.80	36.23	13.95	40.00	-26.05	QP
152.664	33.14	12.80	1.59	37.09	10.44	43.50	-33.06	QP
440.196	33.48	15.75	3.05	37.52	14.76	46.00	-31.24	QP
737.071	32.58	21.25	4.23	37.63	20.43	46.00	-25.57	QP
965.542	32.47	23.99	5.09	37.54	24.01	54.00	-29.99	QP

Vertical:



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV/m	Limit level dBuV/m	Over limit dB	Remark
35.251	39.73	12.54	0.61	35.37	17.51	40.00	-22.49	QP
40.988	38.35	13.20	0.67	35.72	16.50	40.00	-23.50	QP
68.872	39.16	10.79	0.93	36.43	14.45	40.00	-25.55	QP
167.824	37.68	12.52	1.67	37.18	14.69	43.50	-28.81	QP
473.835	34.45	16.30	3.20	37.51	16.44	46.00	-29.56	QP
938.833	32.38	23.75	4.99	37.56	23.56	46.00	-22.44	QP

■ 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
4814.00	35.75	31.22	4.63	37.68	33.92	74.00	-40.08	Vertical
7221.00	30.80	36.25	6.52	37.81	35.76	74.00	-38.24	Vertical
9628.00	30.55	37.97	7.98	37.93	38.57	74.00	-35.43	Vertical
12035.00	*					74.00		Vertical
14442.00	*					74.00		Vertical
4814.00	39.72	31.22	4.63	37.68	37.89	74.00	-36.11	Horizontal
7221.00	32.42	36.25	6.52	37.81	37.38	74.00	-36.62	Horizontal
9628.00	29.82	37.97	7.98	37.93	37.84	74.00	-36.16	Horizontal
12035.00	*					74.00		Horizontal
14442.00	*					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
4814.00	24.86	31.22	4.63	37.68	23.03	54.00	-30.97	Vertical
7221.00	19.66	36.25	6.52	37.81	24.62	54.00	-29.38	Vertical
9628.00	18.83	37.97	7.98	37.93	26.85	54.00	-27.15	Vertical
12035.00	*					54.00		Vertical
14442.00	*					54.00		Vertical
4814.00	28.91	31.22	4.63	37.68	27.08	54.00	-26.92	Horizontal
7221.00	21.73	36.25	6.52	37.81	26.69	54.00	-27.31	Horizontal
9628.00	18.43	37.97	7.98	37.93	26.45	54.00	-27.55	Horizontal
12035.00	*					54.00		Horizontal
14442.00	*					54.00		Horizontal

Test channel:	Middle channel
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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
4880.00	36.11	31.33	4.69	37.62	34.51	74.00	-39.49	Vertical
7320.00	31.04	36.43	6.63	37.77	36.33	74.00	-37.67	Vertical
9760.00	30.76	38.10	8.03	37.95	38.94	74.00	-35.06	Vertical
12200.00	*					74.00		Vertical
14640.00	*					74.00		Vertical
4880.00	40.15	31.33	4.69	37.62	38.55	74.00	-35.45	Horizontal
7320.00	32.69	36.43	6.63	37.77	37.98	74.00	-36.02	Horizontal
9760.00	30.07	38.10	8.03	37.95	38.25	74.00	-35.75	Horizontal
12200.00	*					74.00		Horizontal
14640.00	*					74.00		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
4880.00	25.16	31.33	4.69	37.62	23.56	54.00	-30.44	Vertical
7320.00	19.86	36.43	6.63	37.77	25.15	54.00	-28.85	Vertical
9760.00	19.01	38.10	8.03	37.95	27.19	54.00	-26.81	Vertical
12200.00	*					54.00		Vertical
14640.00	*					54.00		Vertical
4880.00	29.25	31.33	4.69	37.62	27.65	54.00	-26.35	Horizontal
7320.00	21.96	36.43	6.63	37.77	27.25	54.00	-26.75	Horizontal
9760.00	18.65	38.10	8.03	37.95	26.83	54.00	-27.17	Horizontal
12200.00	*					54.00		Horizontal
14640.00	*					54.00		Horizontal

Test channel:	Highest channel
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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
4946.00	36.32	31.41	4.77	37.56	34.94	74.00	-39.06	Vertical
7419.00	31.17	36.62	6.73	37.73	36.79	74.00	-37.21	Vertical
9892.00	30.88	38.27	8.08	37.98	39.25	74.00	-34.75	Vertical
12365.00	*					74.00		Vertical
14838.00	*					74.00		Vertical
4946.00	40.40	31.41	4.77	37.56	39.02	74.00	-34.98	Horizontal
7419.00	32.84	36.62	6.73	37.73	38.46	74.00	-35.54	Horizontal
9892.00	30.21	38.27	8.08	37.98	38.58	74.00	-35.42	Horizontal
12365.00	*					74.00		Horizontal
14838.00	*					74.00		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
4946.00	25.37	31.41	4.77	37.56	23.99	54.00	-30.01	Vertical
7419.00	20.01	36.62	6.73	37.73	25.63	54.00	-28.37	Vertical
9892.00	19.14	38.27	8.08	37.98	27.51	54.00	-26.49	Vertical
12365.00	*					54.00		Vertical
14838.00	*					54.00		Vertical
4946.00	29.50	31.41	4.77	37.56	28.12	54.00	-25.88	Horizontal
7419.00	22.12	36.62	6.73	37.73	27.74	54.00	-26.26	Horizontal
9892.00	18.80	38.27	8.08	37.98	27.17	54.00	-26.83	Horizontal
12365.00	*					54.00		Horizontal
14838.00	*					54.00		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.

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)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2310.00	45.80	27.14	2.81	38.64	37.11	74.00	-36.89	Horizontal
2390.00	50.00	27.37	2.91	38.84	41.44	74.00	-32.56	Horizontal
2400.00	51.74	27.41	2.92	38.86	43.21	74.00	-30.79	Horizontal
2310.00	46.62	27.14	2.81	38.64	37.93	74.00	-36.07	Vertical
2390.00	51.35	27.37	2.91	38.84	42.79	74.00	-31.21	Vertical
2400.00	52.93	27.41	2.92	38.86	44.40	74.00	-29.60	Vertical

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
2310.00	35.69	27.14	2.81	38.64	27.00	54.00	-27.00	Horizontal
2390.00	37.10	27.37	2.91	38.84	28.54	54.00	-25.46	Horizontal
2400.00	38.47	27.41	2.92	38.86	29.94	54.00	-24.06	Horizontal
2310.00	35.84	27.14	2.81	38.64	27.15	54.00	-26.85	Vertical
2390.00	38.02	27.37	2.91	38.84	29.46	54.00	-24.54	Vertical
2400.00	39.05	27.41	2.92	38.86	30.52	54.00	-23.48	Vertical

Test channel:	Highest channel
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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
2483.50	48.25	27.82	2.99	39.05	40.01	74.00	-33.99	Horizontal
2500.00	46.86	27.70	3.01	39.10	38.47	74.00	-35.53	Horizontal
2483.50	49.58	27.82	2.99	39.05	41.34	74.00	-32.66	Vertical
2500.00	48.14	27.70	3.01	39.10	39.75	74.00	-34.25	Vertical

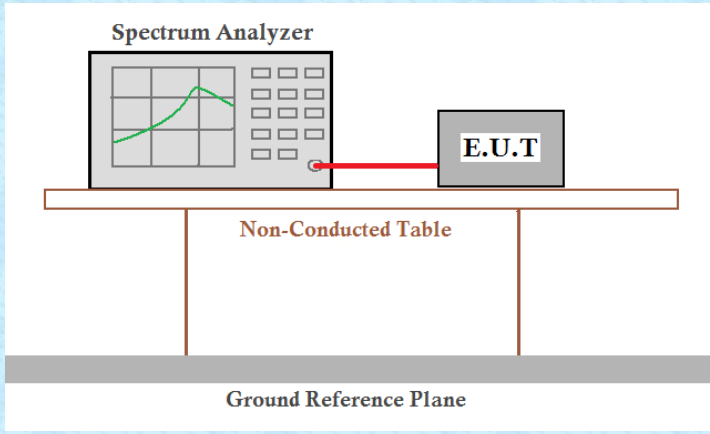
Average value:

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
2483.50	36.55	27.82	2.99	39.05	28.31	54.00	-25.69	Horizontal
2500.00	36.13	27.70	3.01	39.10	27.74	54.00	-26.26	Horizontal
2483.50	36.44	27.82	2.99	39.05	28.20	54.00	-25.80	Vertical
2500.00	36.30	27.70	3.01	39.10	27.91	54.00	-26.09	Vertical

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:	
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	2.326	Pass
Middle	2.169	Pass
Highest	1.432	Pass

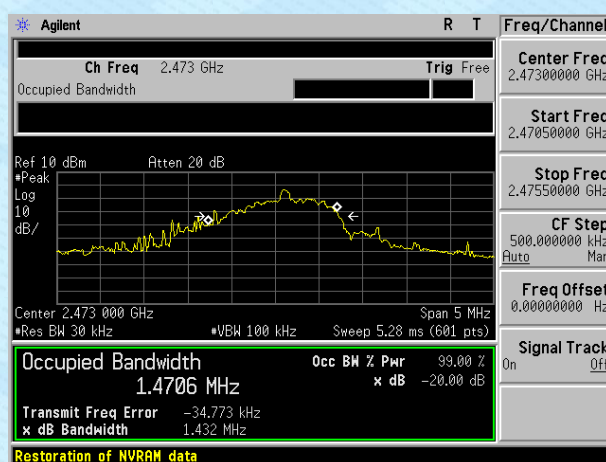
Test plot as follows:



Lowest channel



Middle channel



Highest channel

8 Test Setup Photo

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

9 EUT Constructional Details

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

-----End-----