

MRT Technology (Suzhou) Co., Ltd

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Report No.: 1708RSU01701 Report Version: Issue Date: 08-29-2017

MEASUREMENT REPORT

FCC PART 15.231(a)

FCC ID: 2ANHJGDR11

APPLICANT: Shanghai shengzhen commercial & trade Ltd company

Certification **Application Type:**

Product: Remote Control

Model No.: **GD-R11**

FCC Classification: FCC Part 15 Security/Remote Control Transmitter

(DSC)

FCC Rule Part(s): Part 15.231(a)

ANSI C63.10-2013 Test Procedure(s):

August 20 ~ August 29, 2017 **Test Date:**

Reviewed By : Kevin Guo)

Approved By : Marlinchen

(Marlin Chen)





The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

FCC ID: 2ANHJGDR11 Page Number: 1 of 28



Revision History

Report No.	Version	Description	Issue Date	Note
1708RSU01701	Rev. 01	Initial report	08-29-2017	Valid

FCC ID: 2ANHJGDR11 Page Number: 2 of 28



CONTENTS

De	scriptic	on	Page
1.	INTR	ODUCTION	6
	1.1.	Scope	6
	1.2.	MRT Test Location	6
2.	PROI	DUCT INFORMATION	7
	2.1.	Equipment Description	7
	2.2.	Test Standards	
	2.3.	Test Methodology	7
	2.4.	EUT Setup and Test Mode	8
3.	ANTE	ENNA REQUIREMENTS	9
4.	TEST	EQUIPMENT CALIBRATION DATA	10
5.	MEA	SUREMENT UNCERTAINTY	11
6.	TEST	TRESULT	12
	6.1.	Summary	12
	6.2.	Radiated Emissions	
	6.2.1.	Standard Applicable	13
	6.2.2.		
	6.2.3.	Test Setup	14
	6.2.4.	Test Results	16
	6.3.	20dB Bandwidth	22
	6.3.1.	Standard Applicable	22
	6.3.2.	Test Procedure	22
	6.3.3.	Test Setup	22
	6.3.4.	Test Result	23
	6.4.	Release Time	24
	6.4.1.	Standard Applicable	24
	6.4.2.	Test Procedure	24
	6.4.3.	Test Setup	24
	6.4.4.	Test Result	25
	6.5.	Duty Cycle	26
	6.5.1.	Standard Applicable	26
	6.5.2.	Test Procedure	26
	6.5.3.	Test Setup	26
	6.5.4.	Test Result	27



7.	CONCLUSION	2	8
1.	CONCLUSION	-	. 4



§2.1033 General Information

Applicant:	Shanghai shengzhen commercial & trade Ltd company	
Applicant Address:	Xinlong road No.1373 Room 606 Minhang Distirct Shanghai China	
Manufacturer:	Shanghai shengzhen commercial & trade Ltd company	
Manufacturer Address:	Xinlong road No.1373 Room 606 Minhang Distirct Shanghai China	
Test Site:	MRT Technology (Suzhou) Co., Ltd	
Test Site Address:	D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong	
	Economic Development Zone, Suzhou, China	
MRT Registration No.: 893164		
FCC Rule Part(s):	Part 15.231(a)	
Model No.	GD-R11	
FCC ID:	2ANHJGDR11	
Test Device Serial No.:	N/A ☐ Production ☐ Pre-Production ☐ Engineering	
FCC Classification:	FCC Part 15 Security/Remote Control Transmitter(DSC)	

Test Facility / Accreditations

Measurements were performed at MRT Laboratory located in Tian'edang Rd., Suzhou, China.

- MRT facility is a FCC registered (MRT Reg. No. 893164) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules.
- MRT facility is an IC registered (MRT Reg. No. 11384A-1) test laboratory with the site description on file at Industry Canada.
- MRT facility is a VCCI registered (R-4179, G-814, C-4664, T-2206) test laboratory with the site description on file at VCCI Council.
- MRT Lab is accredited to ISO 17025 by the American Association for Laboratory Accreditation (A2LA) under the American Association for Laboratory Accreditation Program (A2LA Cert. No. 3628.01) in EMC, Telecommunications and Radio testing for FCC, Industry Canada, EU and TELEC Rules.



FCC ID: 2ANHJGDR11 Page Number: 5 of 28



1. INTRODUCTION

1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Industry Canada Certification and Engineering Bureau.

1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taihu Lake. These measurement tests were conducted at the MRT Technology (Suzhou) Co., Ltd. Facility located at D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4-2009 on September 30, 2013.



FCC ID: 2ANHJGDR11 Page Number: 6 of 28



2. PRODUCT INFORMATION

2.1. Equipment Description

Product Name	Remote Control
Model No.	GD-R11
Frequency Range	315 MHz
Type of modulation	ASK
Antenna Type	Integral Antenna
Antenna Gain	0 dBi

2.2. Test Standards

The following report is prepared on behalf of the Shanghai shengzhen commercial & trade Ltd company in accordance with FCC Part 15, Subpart C, and section 15.231, 15.203, 15.205 and 15.209 of the Federal Communication Commission rules.

The objective is to determine compliance with FCC Part 15, Subpart C, and section 15.231, 15.203, 15.205 and 15.209 of the Federal Communication Commission rules.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which results in lowering the emission/immunity, should be checked to ensure compliance has been maintained.

2.3. Test Methodology

The measurement procedures described in the American National Standard for Testing Unlicensed Wireless Devices (ANSI C63.10-2013).

Deviation from measurement procedure......None

FCC ID: 2ANHJGDR11 Page Number: 7 of 28



2.4. EUT Setup and Test Mode

The EUT was operated at continuous transmitting mode that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List						
Test Mode	Description	Remark				
Mode 1	Transmitting	With modulation				

FCC ID: 2ANHJGDR11 Page Number: 8 of 28



3. ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

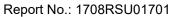
"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section."

- The antenna of the **Remote Control** is permanently attached.
- There are no provisions for connection to an external antenna.

Conclusion:

The Remote Control FCC ID: 2ANHJGDR11 unit complies with the requirement of §15.203.

FCC ID: 2ANHJGDR11 Page Number: 9 of 28





4. TEST EQUIPMENT CALIBRATION DATA

Radiated Disturbance - AC1

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cal. Due Date
MXE EMI Receiver	Agilent	N9038A	MRTSUE06125	1 year	2018/08/03
Microwave System Amplifier	Agilent	83017A	MRTSUE06076	1 year	2018/03/28
Bilog Period Antenna	Schwarzbeck	VULB 9168	MRTSUE06172	1 year	2017/11/19
Horn Antenna	Schwarzbeck	BBHA9120D	MRTSUE06023	1 year	2017/10/22
Loop Antenna	Schwarzbeck	FMZB1519	MRTSUE06025	1 year	2017/11/21
Digitial Thermometer &	Minagoo	ETH529	MRTSUE06170	1 4000	2017/11/29
Hygrometer	Minggao	E10329	INIK I SUEUD I 70	1 year	2017/11/29
Anechoic Chamber	TDK	Chamber-AC1	N/A	1 year	2018/05/10

20dB Bandwidth - AC1

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cal. Due Date
MXE EMI Receiver	Agilent	N9038A	MRTSUE06125	1 year	2018/08/03
Bilog Period Antenna	Schwarzbeck	VULB 9168	MRTSUE06172	1 year	2017/11/19
Digitial Thermometer &	Minggao	ETH529	MRTSUE06170	1 year	2017/11/29
Hygrometer	Iviiriggao	L111329	WINTSOLOGIA	i yeai	2017/11/29
Anechoic Chamber	TDK	Chamber-AC1	N/A	1 year	2018/05/10

Release Time - AC1

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cal. Due Date
MXE EMI Receiver	Agilent	N9038A	MRTSUE06125	1 year	2018/08/03
Bilog Period Antenna	Schwarzbeck	VULB 9168	MRTSUE06172	1 year	2017/11/19
Digitial Thermometer &	Minagoo	ETH529	MRTSUE06170	1 1/00"	2017/11/29
Hygrometer	Minggao	E10529	INIK I SUEU0 I 70	1 year	2017/11/29
Anechoic Chamber	TDK	Chamber-AC1	N/A	1 year	2018/05/10

Duty Cycle - AC1

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cal. Due Date
MXE EMI Receiver	Agilent	N9038A	MRTSUE06125	1 year	2018/08/03
Bilog Period Antenna	Schwarzbeck	VULB 9168	MRTSUE06172	1 year	2017/11/19
Digitial Thermometer &	Minggao	ETH529	MRTSUE06170	1 year	2017/11/29
Hygrometer	Iviiriggao	E111329	WK130E00170	1 year	2017/11/29
Anechoic Chamber	TDK	Chamber-AC1	N/A	1 year	2018/05/10

FCC ID: 2ANHJGDR11 Page Number: 10 of 28



5. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Radiated Emission Measurement - AC1

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

9kHz ~ 1GHz: 4.18dB 1GHz ~ 18GHz: 4.76dB

Release Time Measurement - AC1

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)):

0.09ms

FCC ID: 2ANHJGDR11 Page Number: 11 of 28



6. TEST RESULT

6.1. Summary

Company Name: Shanghai shengzhen commercial & trade Ltd company

FCC ID: 2ANHJGDR11

FCC Part Section(s)	Test Description	Test Condition	Test Result	
15.205	Radiated Spurious		Pass	
15.231(b)	Emissions			
15.231(c)	20dB Bandwidth	Radiated	Pass	
15.231(a)(1)	Release Time		Pass	
15.231(b)	Duty Cycle		Pass	

Notes:

- All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
- 2) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.
- 4) The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

FCC ID: 2ANHJGDR11 Page Number: 12 of 28



6.2. Radiated Emissions

6.2.1. Standard Applicable

According to §15.231(b), the field strength of emissions from intentional radiators operated under this section shall not exceed the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental (microvolts/meter)	Field Strength of Spurious Emissions (microvolts/meter)
40.66 - 40.70	2250	225
70 - 130	1250	125
130 - 174	¹ 1250 to 3750	¹ 125 to 375
174 - 260	3750	375
260 - 470	¹ 3750 to 12500	¹ 375 to 1250
Above 470	12500	1250

The limits on the field strength of the spurious emissions in the above table are based on the fundamental frequency of the intentional radiator. Spurious emissions shall be attenuated to the average (or, alternatively, CISPR quasi-peak) limits shown in this table or to the general limits shown in §15.209, whichever limit permits a higher field strength.

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements start below or at the lowest crystal frequency.

Compliance with the provisions of §15.205 shall be demonstrated using the measurement instrumentation specified in that section.

6.2.2. Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.231(b) and FCC Part 15.209 Limit.

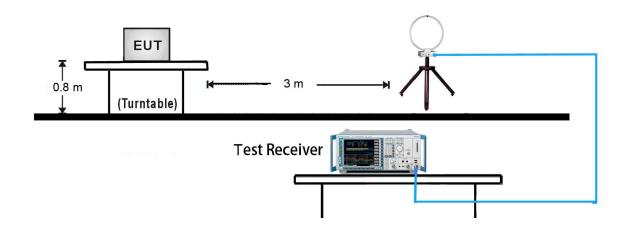
FCC ID: 2ANHJGDR11 Page Number: 13 of 28



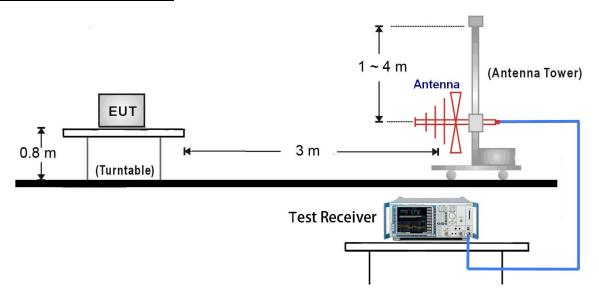
6.2.3. Test Setup

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.231(b) and FCC Part 15.209 Limit.

9kHz ~ 30MHz Test Setup:



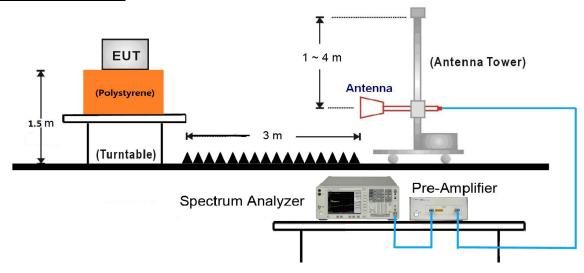
30MHz ~ 1GHz Test Setup:



FCC ID: 2ANHJGDR11 Page Number: 14 of 28



1GHz ~ 18GHz Test Setup:

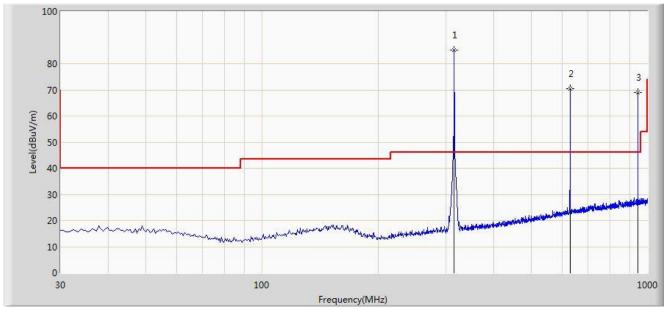


FCC ID: 2ANHJGDR11 Page Number: 15 of 28



6.2.4. Test Results

Site: AC1	Time: 2017/08/19 - 00:31
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: VULB 9168 _20-2000MHz	Polarity: Horizontal
EUT: Remote Control	Power: By Battery
Note: Transmit at Channel 315MHz	·



No	Frequency	Reading	Factor	Duty Cycle	Measure	Limit	Over	Туре
	(MHz)	Level	(dB)	Factor	Level	(dBuV/m)	Limit	
		(dBuV)		(dB)	(dBuV/m)		(dB)	
1	314.695	70.415	14.708	N/A	85.123	95.623	-10.500	PK
	314.695	70.415	14.708	16.654	68.469	75.623	-7.154	AV
2	629.945	49.234	21.096	N/A	70.330	75.623	-5.293	PK
	629.945	49.234	21.096	16.654	53.676	55.623	-1.947	AV
3	945.195	44.055	24.877	N/A	68.931	75.623	-6.692	PK
	945.195	44.055	24.877	16.654	52.277	55.623	-3.346	AV

Note 1: Testing is carried out with frequency rang 9 kHz to the tenth harmonics. There is the ambient noise within frequency range 9 kHz ~ 30 MHz, the permissible value is not show in the report.

Note 2: The fundamental frequency is 315MHz, so the fundamental and spurious emissions radiated limit base on the operating frequency 315MHz.

Note 3: Peak Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB).

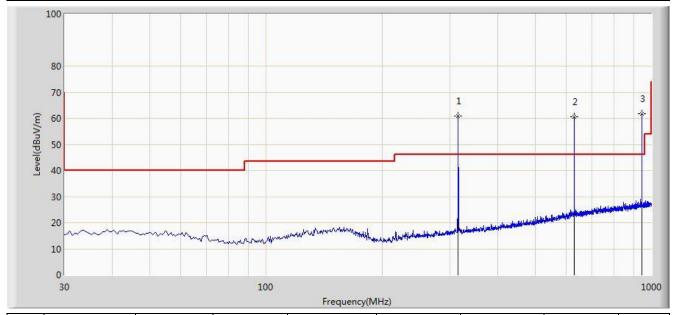
AV Measure Level = Peak Measure Level - Duty Cycle Factor.

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

FCC ID: 2ANHJGDR11 Page Number: 16 of 28



Site: AC1	Time: 2017/08/19 - 00:35
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: VULB 9168 _20-2000MHz	Polarity: Vertical
EUT: Remote Control	Power: By Battery
Note: Transmit at Channel 315MHz	



No	Frequency	Reading	Factor	Duty Cycle	Measure	Limit	Over	Туре
	(MHz)	Level	(dB)	Factor	Level	(dBuV/m)	Limit	
		(dBuV)		(dB)	(dBuV/m)		(dB)	
1	314.695	46.188	14.708	N/A	60.896	95.623	-34.727	PK
	314.695	46.188	14.708	16.654	44.242	75.623	-31.381	AV
2	629.945	39.611	21.096	N/A	60.707	75.623	-14.916	PK
	629.945	39.611	21.096	16.654	44.053	55.623	-11.570	AV
3	945.195	36.967	24.877	N/A	61.843	75.623	-13.780	PK
	945.195	36.967	24.877	16.654	45.189	55.623	-10.434	AV

Note 1: Testing is carried out with frequency rang 9 kHz to the tenth harmonics. There is the ambient noise within frequency range 9 kHz ~ 30 MHz, the permissible value is not show in the report.

Note 2: The fundamental frequency is 315MHz, so the fundamental and spurious emissions radiated limit base on the operating frequency 315MHz.

Note 3: Peak Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB).

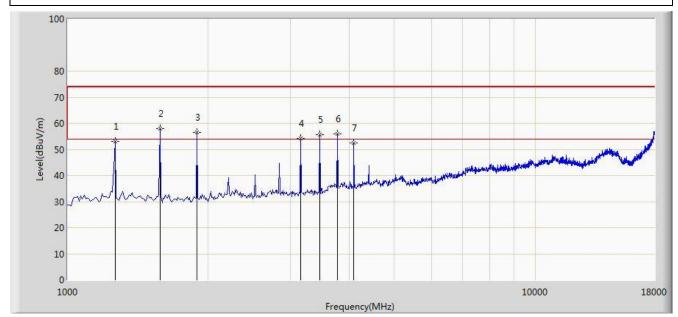
AV Measure Level = Peak Measure Level - Duty Cycle Factor.

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

FCC ID: 2ANHJGDR11 Page Number: 17 of 28



Site: AC1	Time: 2017/08/18 - 22:04
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Remote Control	Power: By Battery
Note: Transmit at Channel 315MHz	



No	Frequency	Reading	Factor	Duty Cycle	Measure	Limit	Over	Туре
	(MHz)	Level	(dB)	Factor	Level	(dBuV/m)	Limit	
		(dBuV)		(dB)	(dBuV/m)		(dB)	
1	1263.500	61.499	-8.439	N/A	53.060	75.623	-22.563	PK
	1263.500	61.499	-8.439	16.654	36.406	55.623	-19.217	AV
2	1578.000	65.786	-7.680	N/A	58.106	75.623	-17.517	PK
	1578.000	65.786	-7.680	16.654	41.452	55.623	-14.171	AV
3	1892.500	62.999	-6.349	N/A	56.650	75.623	-18.973	PK
	1892.500	62.999	-6.349	16.654	39.996	55.623	-15.627	AV
4	3150.500	55.777	-1.533	N/A	54.245	75.623	-21.378	PK
	3150.500	55.777	-1.533	16.654	37.591	55.623	-18.032	AV
5	3465.000	56.932	-1.333	N/A	55.599	75.623	-20.024	PK
	3465.000	56.932	-1.333	16.654	38.945	55.623	-16.678	AV
6	3779.500	56.320	-0.286	N/A	56.033	75.623	-19.590	PK
	3779.500	56.320	-0.286	16.654	39.379	55.623	-16.244	AV
7	4094.000	51.929	0.643	N/A	52.572	75.623	-23.051	PK
	4094.000	51.929	0.643	16.654	35.918	55.623	-19.705	AV

Note 1: Testing is carried out with frequency rang 9 kHz to the tenth harmonics. There is the ambient noise

FCC ID: 2ANHJGDR11 Page Number: 18 of 28



Report No.: 1708RSU01701

within frequency range 9 kHz ~ 30 MHz, the permissible value is not show in the report.

Note 2: The fundamental frequency is 315MHz, so the fundamental and spurious emissions radiated limit base on the operating frequency 315MHz.

Note 3: Peak Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB).

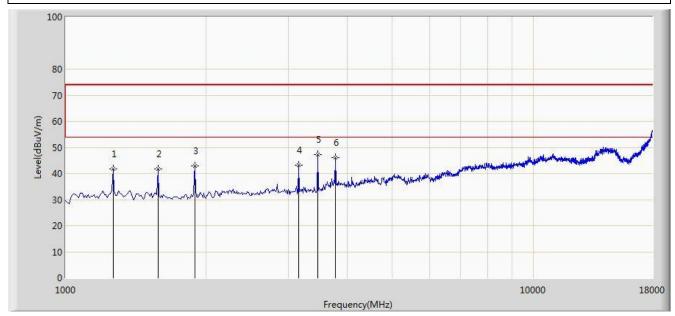
AV Measure Level = Peak Measure Level – Duty Cycle Factor.

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre_Amplifier Gain (dB).

FCC ID: 2ANHJGDR11 Page Number: 19 of 28



Site: AC1	Time: 2017/08/18 - 22:11
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Remote Control	Power: By Battery
Note: Transmit at Channel 315MHz	



No	Frequency	Reading	Factor	Duty Cycle	Measure	Limit	Over	Туре
	(MHz)	Level	(dB)	Factor	Level	(dBuV/m)	Limit	
		(dBuV)		(dB)	(dBuV/m)		(dB)	
1	1263.500	50.085	-8.439	N/A	41.646	75.623	-33.977	PK
	1263.500	50.085	-8.439	16.654	24.992	55.623	-30.631	AV
2	1578.000	49.294	-7.680	N/A	41.614	75.623	-34.009	PK
	1578.000	49.294	-7.680	16.654	24.960	55.623	-30.663	AV
3	1892.500	49.215	-6.349	N/A	42.866	75.623	-32.757	PK
	1892.500	49.215	-6.349	16.654	26.212	55.623	-29.411	AV
4	3150.500	44.705	-1.533	N/A	43.173	75.623	-32.450	PK
	3150.500	44.705	-1.533	16.654	26.519	55.623	-29.104	AV
5	3465.000	48.566	-1.333	N/A	47.233	75.623	-28.390	PK
	3465.000	48.566	-1.333	16.654	30.579	55.623	-25.044	AV
6	3779.500	46.360	-0.286	N/A	46.073	75.623	-29.550	PK
	3779.500	46.360	-0.286	16.654	29.419	55.623	-26.204	AV

Note 1: Testing is carried out with frequency rang 9 kHz to the tenth harmonics. There is the ambient noise within frequency range 9 kHz ~ 30 MHz, the permissible value is not show in the report.

Note 2: The fundamental frequency is 315MHz, so the fundamental and spurious emissions radiated limit base on the operating frequency 315MHz.

FCC ID: 2ANHJGDR11 Page Number: 20 of 28



Report No.: 1708RSU01701



Note 3: Peak Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB).

AV Measure Level = Peak Measure Level – Duty Cycle Factor.

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre_Amplifier Gain (dB).

FCC ID: 2ANHJGDR11 Page Number: 21 of 28



6.3. 20dB Bandwidth

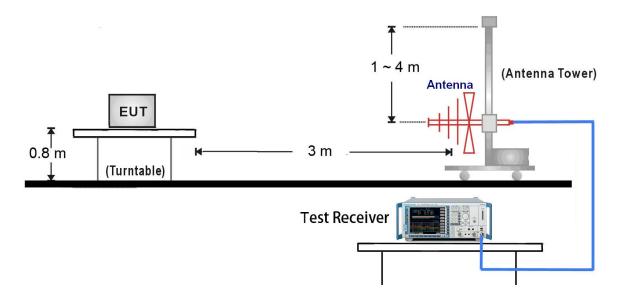
6.3.1. Standard Applicable

According to FCC Part 15.231(c), the bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70MHz and below 900MHz. Bandwidth is determined at the points 20 dB down from the modulated carrier.

6.3.2. Test Procedure

With the EUT's antenna attached, the EUT's 20dB Bandwidth power was received by the test antenna, which was connected to the spectrum analyzer with the START, and STOP frequencies set to the EUT's operation band.

6.3.3. Test Setup



FCC ID: 2ANHJGDR11 Page Number: 22 of 28

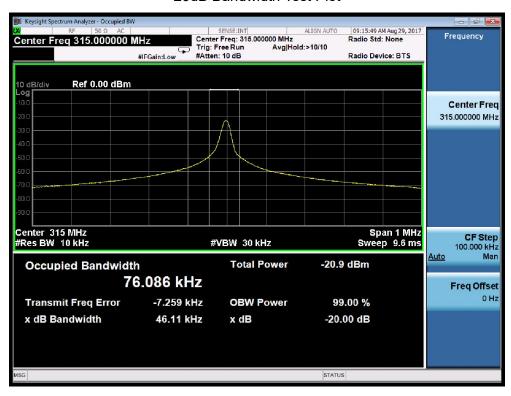


6.3.4. Test Result

Test Frequency	20dB Bandwidth	Limit	Result
(MHz)	(KHz)	(KHz)	
315	46.11	≤ 787.5	Pass

Limit = Fundamental Frequency * 0.25% = 315MHz * 0.25% = 787.5KHz

20dB Bandwidth Test Plot



FCC ID: 2ANHJGDR11 Page Number: 23 of 28



6.4. Release Time

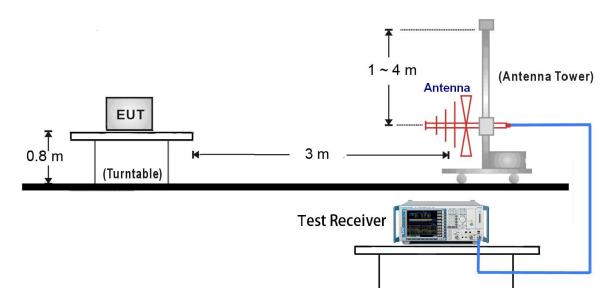
6.4.1. Standard Applicable

According to FCC 15.231(a), (1) A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

6.4.2. Test Procedure

With the EUT's antenna attached, the EUT's output signal was received by the test antenna, which was connected to the spectrum analyzer. Set the center frequency to 315MHz, than set the spectrum analyzer to Zero Span for the release time reading. During the testing, the switch was released then the EUT automatically deactivated.

6.4.3. Test Setup



FCC ID: 2ANHJGDR11 Page Number: 24 of 28

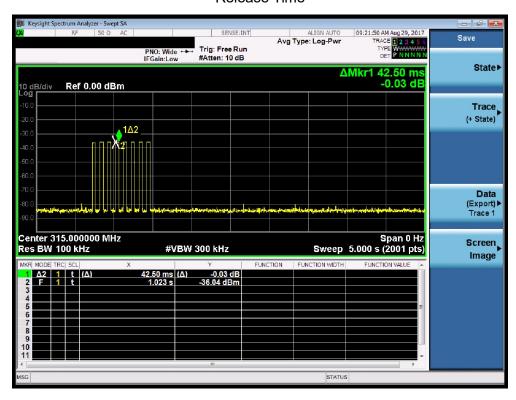


6.4.4. Test Result

Item	Measured Value	Limit	Result
Release Time	0.340 s	≤ 5 s	Pass

Measure Value = Release_(on time) = 42.50ms * 8 = 340ms

Release Time



FCC ID: 2ANHJGDR11 Page Number: 25 of 28



6.5. Duty Cycle

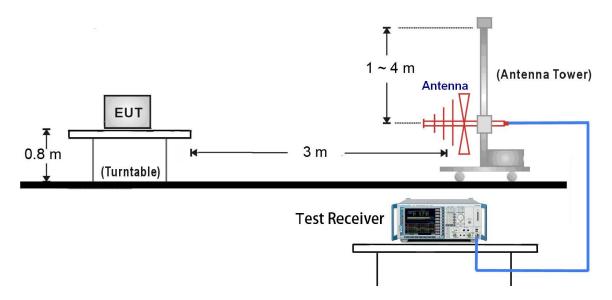
6.5.1. Standard Applicable

According to FCC Part 15.231(b) and 15.35(c), for pulse operation transmitter, the averaging pulsed emissions are calculated by peak value of measured emission plus duty cycle factor.

6.5.2. Test Procedure

With the EUT's antenna attached, the EUT's output signal was received by the test antenna, which was connected to the spectrum analyzer. Set the center frequency to 315MHz, than set the spectrum analyzer to Zero Span for the release time reading. During the testing, the switch was released then the EUT automatically deactivated.

6.5.3. Test Setup



FCC ID: 2ANHJGDR11 Page Number: 26 of 28



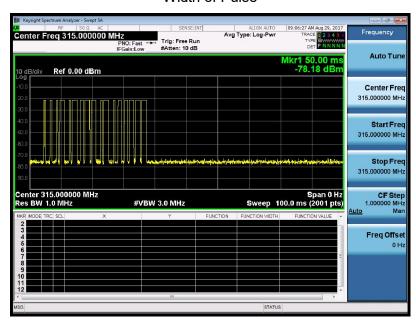
6.5.4. Test Result

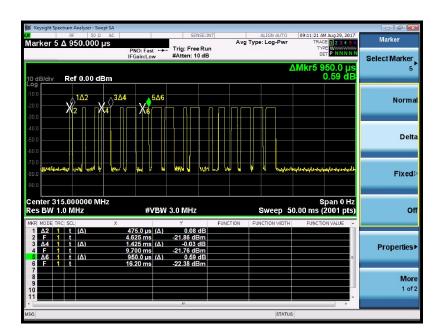
Total Time (Ton)	The duration of one cycle	Duty Cycle	Duty Cycle Factor
(ms)	(ms)	(%)	(dB)
14.700	100	14.700	16.654

Note: Duty Cycle Factor = 20*Log(Duty Cycle).

Total Time $(T_{on})(ms) = 0.475*6+1.425*8+0.95*3=14.700(ms)$

Width of Pulse





FCC ID: 2ANHJGDR11 Page Number: 27 of 28



7. CONCLUSION

The data collected relate only the item(s) tested and show that the Remote Control FCC ID
2ANHJGDR11 is in compliance with FCC Part 15.231(a) of the FCC Rules.

FCC ID: 2ANHJGDR11 Page Number: 28 of 28

——— The End