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Report No.: GZEM150700364401  
Page: 1 of 19  
FCC ID: O8520130908456

## **TEST REPORT**

The following sample(s) was/were submitted and identified on behalf of the client as:

<b>Application No.:</b>	GZEM1507003644CR
<b>Applicant:</b>	Shantou Chenghai Weili Toy Co. Ltd.
<b>Manufacturer:</b>	Shantou Chenghai Weili Toy Co. Ltd.
<b>Factory:</b>	Shantou Chenghai Weili Toy Co. Ltd.
<b>FCC ID:</b>	O8520130908456
<b>Product Description:</b>	FIRST PERSON VIEW, CLOUD RIDER WITH STREAMING VIDEO
<b>Model No.:</b>	V686, V686+G, Q282, Q282+G, Q212, Q212+G, Q222, Q222+G, V606, V606+G, PL-1450 ♣
<b>♣</b>	Please refer to section 3 of this report for further details.
<b>Standards:</b>	CFR 47 PART 15 Subpart C: 2013 section 15.249
<b>Date of Receipt:</b>	2015-08-13
<b>Date of Test:</b>	2015-08-28 to 2015-09-24
<b>Date of Issue:</b>	2015-10-09
<b>Test Result :</b>	<b>Pass*</b>

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



The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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## 2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
00		2015-10-09		Original

Authorized for issue by:			
Tested By			2015-08-28 to 2015-09-24 Date
	(Little Xiang) / Reviewer		
Prepared By			2015-09-29 Date
	(Julia Zhu) / Clerk		
Checked By			2015-09-29 Date
	(Ricky Liu) / Project Engineer		



### 3 Test Summary

Test	Test Requirement	Test method	Result
Field Strength of Fundamental	FCC PART 15 C section 15.249 (a)	ANSI C63.10: Clause 6.6	PASS
Field Strength of Unwanted Emissions	FCC PART 15 C section 15.249 (a) section 15.249 (d)	ANSI C63.10: Clause 6.4, 6.6 and 6.7	PASS
Band Edges	FCC PART 15 C section 15.249 (d)	ANSI C63.10: Clause 6.9.2	PASS
Occupied Bandwidth	FCC PART 15 C section 15.215(c)	ANSI C63.10: Clause 6.9.1	PASS
<b>Remark:</b> EUT: In this whole report EUT means Equipment Under Test. Tx: In this whole report Tx (or tx) means Transmitter. Rx: In this whole report Rx (or rx) means Receiver. RF: In this whole report RF means Radio Frequency. ANSI C63.10: the detail version is ANSI C63.10:2009 in the whole report.			
<b>♣ Model No.: V686, V686+G, Q282, Q282+G, Q212, Q212+G, Q222, Q222+G, V606, V606+G, PL-1450</b> According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference being the color, appearance, package and accessories. Therefore only one model <b>V686</b> was tested in this report.			



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## 5 General Information

### 5.1 Client Information

Applicant:	Shantou Chenghai Weili Toy Co. Ltd.
Address of Applicant:	D Zone, XieHe Industrial Park, LaiMei Road, ChengHai District, Shantou City, GuangDong Province, China (Mainland)
Manufacturer:	Shantou Chenghai Weili Toy Co. Ltd.
Address of Manufacturer:	D Zone, XieHe Industrial Park, LaiMei Road, ChengHai District, Shantou City, GuangDong Province, China (Mainland)
Factory:	Shantou Chenghai Weili Toy Co. Ltd.
Factory of Address:	D Zone, XieHe Industrial Park, LaiMei Road, ChengHai District, Shantou City, GuangDong Province, China (Mainland)

### 5.2 General Description of E.U.T.

Product Description:	FIRST PERSON VIEW, CLOUD RIDER WITH STREAMING VIDEO
Model No.:	V686

### 5.3 Details of E.U.T.

Operating Frequency	5790MHz
Type of Modulation:	GFSK
Number of Channels	1
Antenna Type	Integral Antenna
Antenna gain:	2.0 dBi
Function:	5.8GHz is used for common channel for data transfer. The channel of the transmitter will be fixed.
Power Supply:	DC 3.7V for Tx.

### 5.4 Description of Support Units

The EUT has been test as an independent unit.

### 5.5 Other Information Requested by the Customer

None.

### 5.6 Deviation from Standards

Biconical and log periodic antennas were used instead of dipole antennas.



## **5.7 Test Location**

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,  
198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District,  
Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.

## 5.8 Test Facility

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

- **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2006 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

- **FCC (Registration No.: 282399)**

SGS-CSTC Standards Technical Services Co., Ltd., 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 282399, May 31, 2002.

- **Industry Canada (Registration No.: 4620B-1)**

The 3m/10m Alternate Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Certification and Engineering of Industry Canada for radio equipment testing with Registration No. 4620B-1.

- **VCCI (Registration No.: R-2460, C-2584, G-449 and T-1179)**

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co. Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2460, C-2584, G-449 and T-1179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2005, the Basic Rules, IEC 61010-1:2006-10 and Rules of procedure IEC 61010-1:2006-10, and the relevant IEC 61010-1:2006-10 Scheme Operational documents.



## 6 Equipment List

RE in Chamber						
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. date	Cal. Due date
					(YYYY-MM-DD)	(YYYY-MM-DD)
EMC0525	Compact Semi-Anechoic Chamber	ChangZhou ZhongYu	N/A	N/A	2014-12-05	2015-12-05
EMC0522	EMI Test Receiver	Rohde & Schwarz	ESIB26	100283	2015-03-02	2016-03-02
EMC0056	EMI Test Receiver	Rohde & Schwarz	ESCI	100236	2015-04-07	2016-04-07
EMC0528	RI High frequency Cable	SGS	20 m	N/A	2014-04-19	2016-04-19
EMC2025	Trilog Broadband Antenna 30-1000MHz	SCHWARZBECK MESS-ELEKTRONIK	VULB 9160	9160-3372	2014-07-14	2017-07-14
EMC0524	Bi-log Type Antenna	Schaffner -Chase	CBL6112B	2966	2013-08-31	2016-08-31
EMC0519	Bilog Type Antenna	Schaffner -Chase	CBL6143	5070	2014-05-04	2017-05-04
EMC2026	Horn Antenna 1-18GHz	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	9120D-841	2013-08-31	2016-08-31
EMC0521	1-26.5 GHz Pre-Amplifier	Agilent	8449B	3008A01649	2015-03-02	2016-03-02
EMC2065	Amplifier	HP	8447F	N/A	2015-07-18	2016-07-17
EMC0075	310N Amplifier	Sonoma	310N	272683	2015-03-02	2016-03-02
EMC0523	Active Loop Antenna	EMCO	6502	42963	2014-03-03	2016-03-03
EMC2041	Broad-Band Horn Antenna (14)15-26.5(40)GHz	SCHWARZBECK MESS-ELEKTRONI	BBHA 9170	9170-375	2014-05-26	2017-05-26
EMC2079	High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	009	2015-03-02	2016-03-02
EMC2069	2.4GHz filter	Micro-Tronics	BRM 50702	149	2015-03-02	2016-03-02
EMC0530	10m Semi-Anechoic Chamber	ETS	N/A	N/A	2014-05-03	2016-05-03

General used equipment						
No.	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. date	Cal. Due date
					(YYYY-MM-DD)	(YYYY-MM-DD)
EMC0006	DMM	Fluke	73	70681569	2015-09-17	2016-09-16
EMC0007	DMM	Fluke	73	70671122	2015-09-17	2016-09-16



## 7 Test Results

### 7.1 E.U.T. Operation

<b>Test Voltage:</b>	DC 3.7V
<b>Temperature:</b>	20.0 -25.0 °C
<b>Humidity:</b>	38-50 % RH
<b>Atmospheric Pressure:</b>	1000 -1010 mbar

**Test frequencies and frequency range:** According to the 15.31(m) Measurements on intentional radiators or receivers, other than TV broadcast receivers, shall be performed and, if required, reported for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table:

According to the 15.33 (a) For an intentional radiator, the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to at least the frequency shown in the following table:

#### Number of fundamental frequencies to be tested in EUT transmit band

Frequency range in which device operates	Number of frequencies	Location in frequency range of operation
1 MHz or less	1	Middle
1 MHz to 10 MHz	2	1 near top and 1 near bottom
More than 10 MHz	3	1 near top, 1 near middle and 1 near bottom

#### Frequency range of radiated emission measurements

Lowest frequency generated in the device	Upper frequency range of measurement
9 kHz to below 10 GHz	10th harmonic of highest fundamental frequency or to 40 GHz, whichever is lower
At or above 10 GHz to below 30 GHz	5th harmonic of highest fundamental frequency or to 100 GHz, whichever is lower
At or above 30 GHz	5th harmonic of highest fundamental frequency or to 200 GHz, whichever is lower, unless otherwise specified

## 7.2 Antenna Requirement

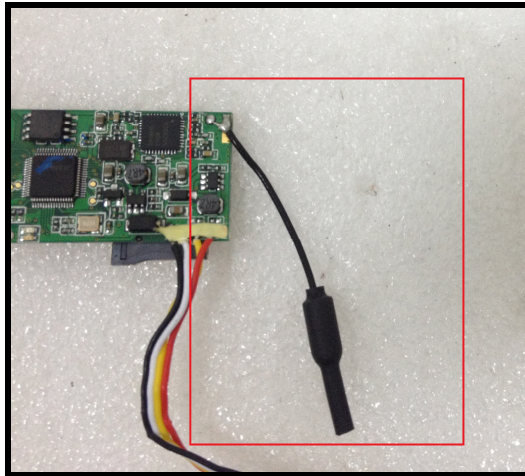
### Standard requirement

15.203 requirement:

For intentional device. According to 15.203. 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.

### EUT Antenna

The antenna is an integral antenna. The best case gain of the antenna is 2.0 dBi.



**Test result: The unit does meet the FCC requirements.**

### 7.3 Field Strength of Fundamental & Field Strength of Unwanted Emissions & Band Edge

Test Requirement: FCC Part 15 C section 15.249

(a) Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental (dB $\mu$ V/m @ 3m)	Field Strength of Harmonics (dB $\mu$ V/m @ 3m)
902 to 928	94.0	54.0
2400 to 2483.5	94.0	54.0
5725 to 5875	94.0	54.0
24000 to 24250	108.0	68.0

(d) 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.

Limits: The fundamental frequency range is in the frequency band of the EUT is 5733MHz ~ 5847MHz.

The limit for Average field strength dB $\mu$ V/m for the fundamental frequency = 94.0 dB $\mu$ V/m.

The limit for Peak field strength dB $\mu$ V/m for the fundamental frequency = 114.0 dB $\mu$ V/m.

No fundamental is allowed in the restricted bands.

The limit for average field strength dB $\mu$ V/m for the harmonics = 54.0 dB $\mu$ V/m.

The limit for peak field strength dB $\mu$ V/m for the harmonics = 74.0 dB $\mu$ V/m.

Emission radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or 54.0 dB $\mu$ V/m in 15.209. Here the limit for the other emission is 54.0 dB $\mu$ V/m.

Test Method: ANSI C63.10: Clause 6.4, 6.6 and 6.7 for Field Strength of Fundamental & Field Strength of Unwanted Emissions

ANSI C63.10: Clause 6.9.2 for Band Edge

Status: Pre-test the EUT in continuous transmitting mode with setup as stand-alone in X, Y, Z three axes, found the worst case is X axes and report the data.

Measurement Distance: 3m (Semi-Anechoic Chamber)

Frequency range: 9 kHz – 25 GHz for transmitting mode.

Test instrumentation resolution bandwidth

9 kHz (9 kHz - 30 MHz), 120 kHz (30 MHz - 1000 MHz), 1 MHz (1000 MHz – 25 GHz)



**Test Procedure:**

1)9 kHz to 30 MHz emissions:

For testing performed with the loop antenna, testing was performed in accordance to ANSI C63.10. The centre of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT, During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane.

2)30 MHz to 1 GHz emissions:

For testing performed with the bi-log type antenna, testing was performed in accordance to ANSI C63.10. The measurement is performed with the EUT rotated 360°, the antenna height scanned between 1m and 4m, and the antenna rotated to repeat the measurement for both the horizontal and vertical antenna polarizations.

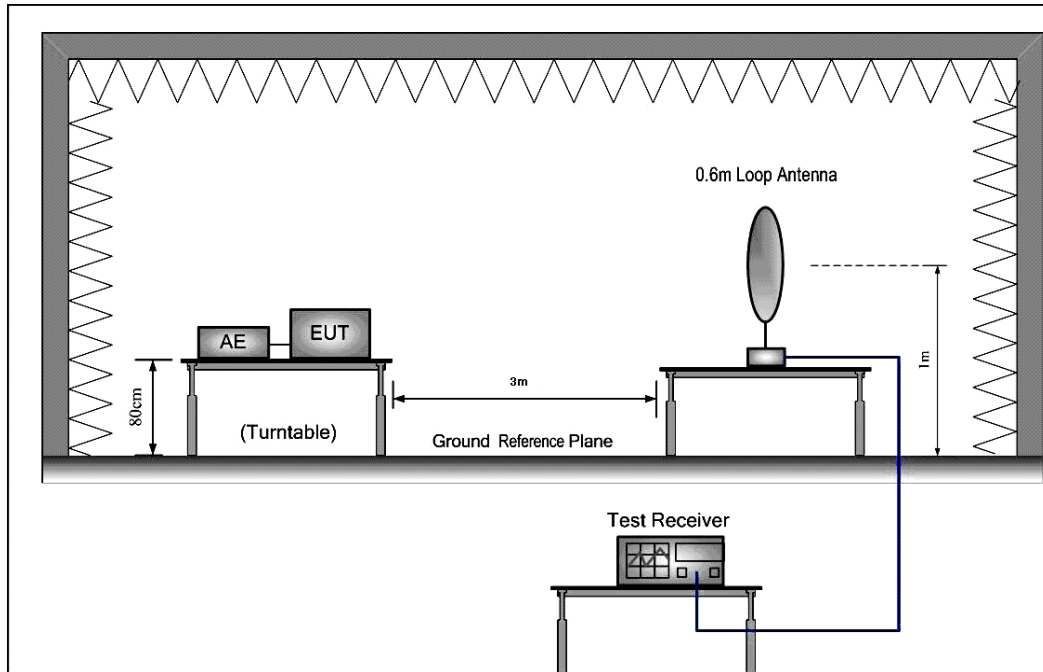
3)1 GHz to 25 GHz emissions:

Test site with RF absorbing material covering the ground plane that met the site validation criterion called out in CISPR 16-1-4:2007 was used to perform radiated emission test above 1 GHz.

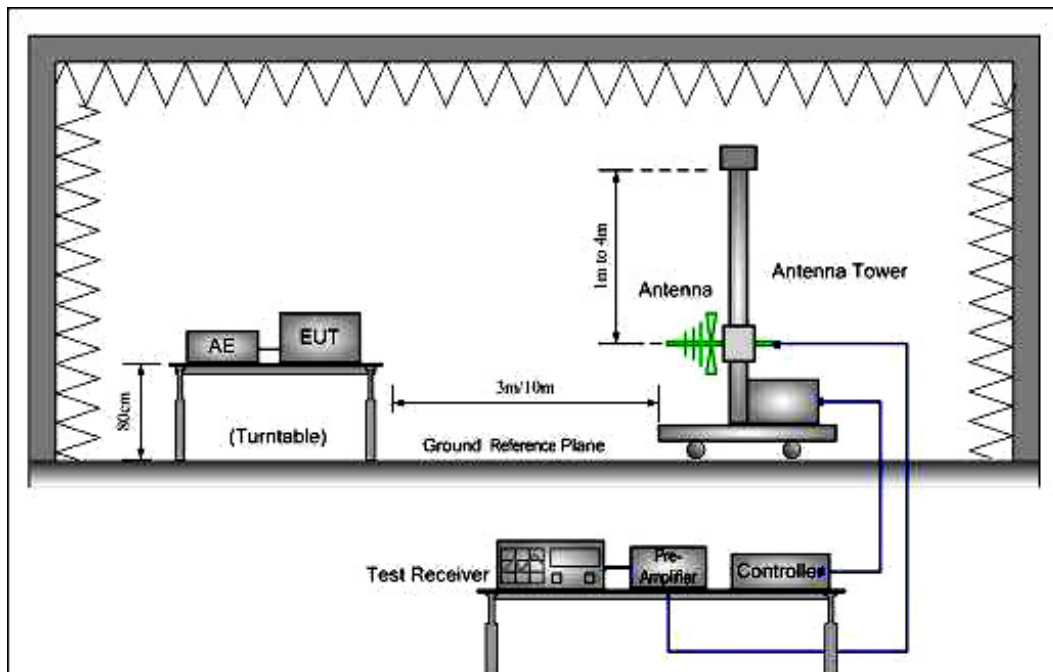
For testing performed with the horn antenna, testing was performed in accordance to ANSI C63.10. The measurement is performed with the EUT rotated 360°, the antenna height scan between 1m and 4m, and the antenna rotated to repeat the measurement for both the horizontal and vertical antenna polarizations.

**Test Configuration:**

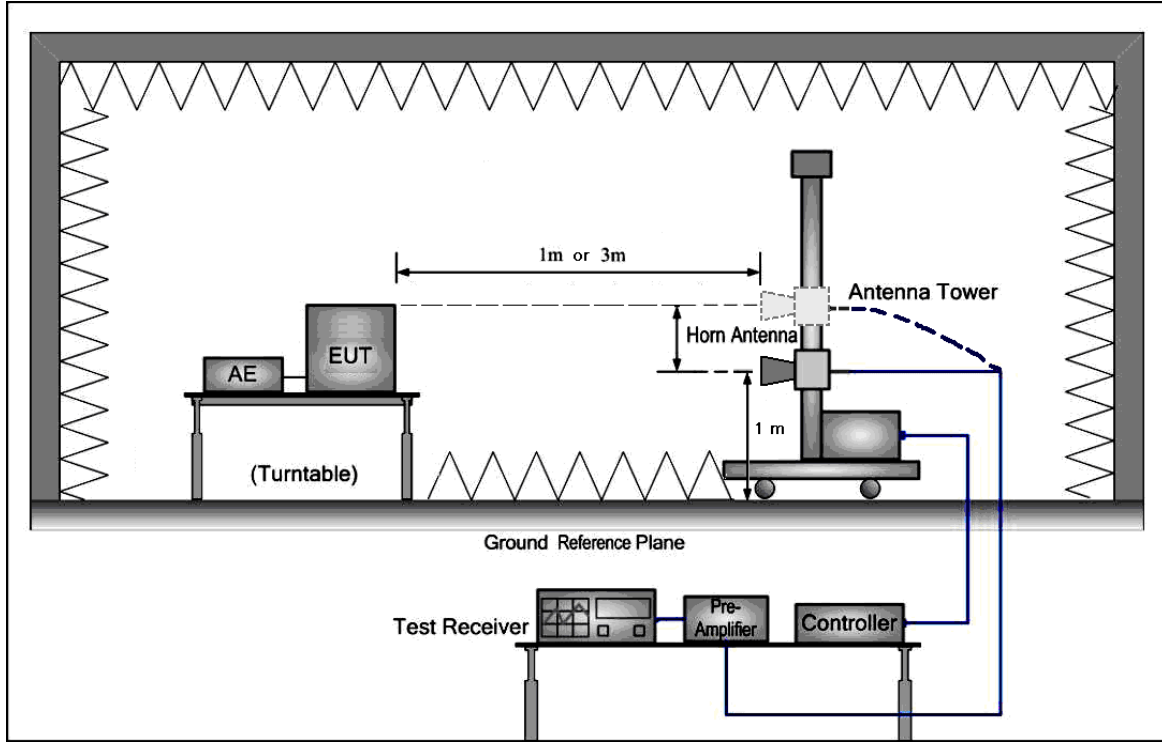
1) 9 kHz to 30 MHz emissions:



2) 30 MHz to 1 GHz emissions:



3) 1 GHz to 25 GHz emissions:



The field strength is calculated by adding the Antenna Factor, Cable Loss & Per-amplifier. The basic equation with a sample calculation is as follows:

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Preamplifier Factor}$$

**Test at low Channel in transmitting status**

9 kHz~30 MHz Field Strength of Unwanted Emissions. Quasi-Peak Measurement

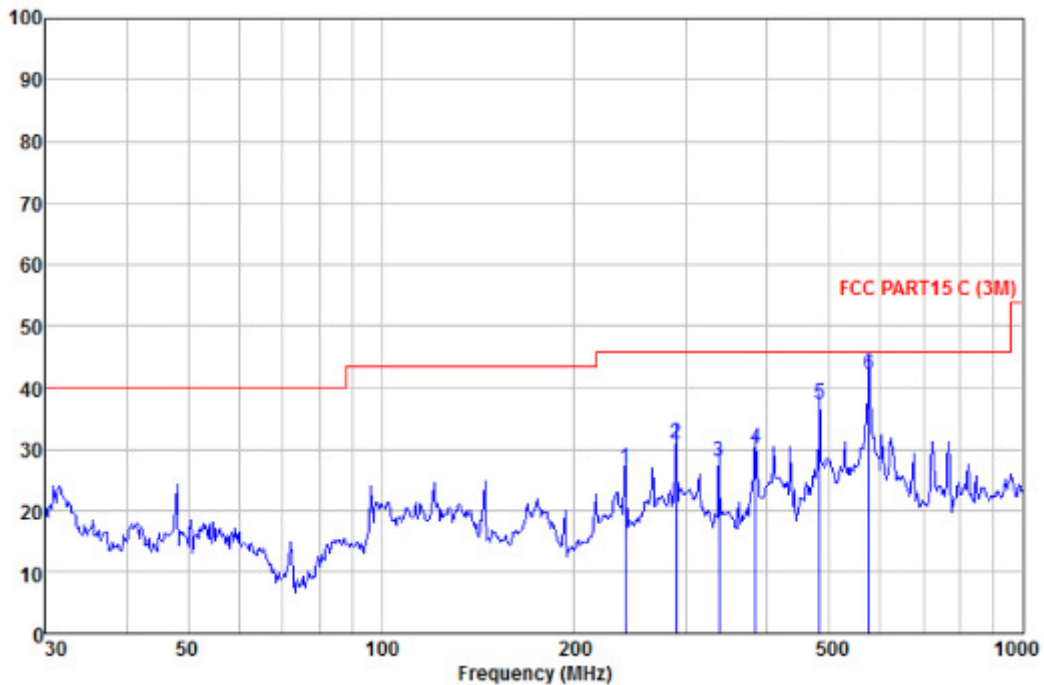
The measurements with active loop antenna were greater than 20dB below the limit, so the test data were not recorded in the test report.

**30 MHz~1 GHz Field Strength of Unwanted Emissions. Quasi-Peak Measurement**

Vertical:

Peak scan

Level (dB $\mu$ V/m)



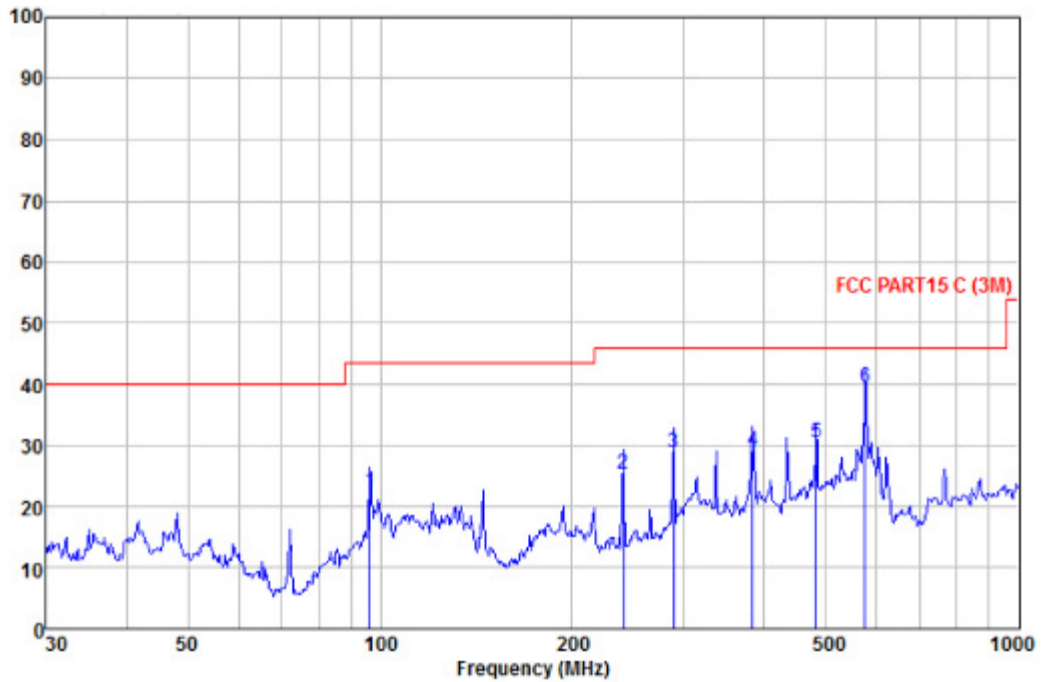
Quasi-peak measurement

Freq	ReadAntenna Level	Cable Preamp Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
239.987	44.66	12.60	2.05	32.35	26.96	46.00	-19.04	QP
287.990	47.75	13.10	2.37	32.31	30.91	46.00	-15.09	QP
336.035	43.66	14.17	2.50	32.34	27.99	46.00	-18.01	QP
383.932	44.00	15.85	2.77	32.39	30.23	46.00	-15.77	QP
482.216	51.07	15.62	3.07	32.49	37.27	46.00	-8.73	QP
574.626	54.21	17.30	3.18	32.58	42.11	46.00	-3.89	QP

**Horizontal:**

Peak scan

Level (dB $\mu$ V/m)



Quasi-peak measurement

Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over	Remark
MHz	Level	Factor	Loss	Factor	Line	Limit	
	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
96.436	40.57	12.87	1.36	32.40	22.40	43.50	-21.10 QP
239.987	42.98	12.60	2.05	32.35	25.28	46.00	-20.72 QP
287.990	45.74	13.10	2.37	32.31	28.90	46.00	-17.10 QP
383.932	42.82	15.85	2.77	32.39	29.05	46.00	-16.95 QP
482.216	44.29	15.62	3.07	32.49	30.49	46.00	-15.51 QP
574.626	51.47	17.30	3.18	32.58	39.37	46.00	-6.63 QP





1~25 GHz Field Strength of Fundamental & Field Strength of Unwanted Emissions.  
Peak & Average Measurement

Peak Measurement:							
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dB $\mu$ V)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Antenna polarization
5790.00	32.54	12.09	38.51	90.35	96.47	114.00	V
4831.96	31.55	11.16	38.57	45.09	49.23	74.00	V
8995.12	36.82	15.68	39.4	43.45	56.55	74.00	V
5790.00	32.54	12.09	38.51	83.71	91.35	114.00	H
4573.76	30.96	11.1	38.58	44.58	48.06	74.00	H
7076.51	35.94	12.84	38.79	44.03	54.02	74.00	H
Average Measurement:							
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dB $\mu$ V)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Antenna polarization
5790.00	32.54	12.09	38.51	69.02	78.52	94.00	V
4831.96	31.55	11.16	38.57	37.84	41.98	54.00	V
8995.12	36.82	15.68	39.4	34.64	47.74	54.00	V
5790.00	32.54	12.09	38.51	71.44	77.56	94.00	H
4573.76	30.96	11.1	38.58	38.38	41.86	54.00	H
7076.51	35.94	12.84	38.79	37.28	47.27	54.00	H



**Band Edge:**

<b>Peak Measurement:</b>							
<b>Frequency (MHz)</b>	<b>Antenna factors (dB/m)</b>	<b>Cable loss (dB)</b>	<b>Preamp factor (dB)</b>	<b>Reading Level (dBμV)</b>	<b>Emission Level (dBμV/m)</b>	<b>Limit (dBμV/m)</b>	<b>Antenna polarization</b>
5725.00	32.28	12.04	38.51	43.94	49.75	74.00	V
5875.00	32.72	12.15	38.50	44.55	50.92	74.00	V
5725.00	32.28	12.04	38.51	42.76	48.57	74.00	H
5875.00	32.72	12.15	38.50	43.94	50.31	74.00	H
<b>Average Measurement:</b>							
<b>Frequency (MHz)</b>	<b>Antenna factors (dB/m)</b>	<b>Cable loss (dB)</b>	<b>Preamp factor (dB)</b>	<b>Reading Level (dBμV)</b>	<b>Emission Level (dBμV/m)</b>	<b>Limit (dBμV/m)</b>	<b>Antenna polarization</b>
5725.00	32.28	12.04	38.51	36.08	41.89	54.00	V
5875.00	32.72	12.15	38.50	37.27	43.64	54.00	V
5725.00	32.28	12.04	38.51	36.40	42.21	54.00	H
5875.00	32.72	12.15	38.50	37.05	43.42	54.00	H

**Remark:**

- 1). The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:  
Final Test Level =Receiver Reading + Antenna Factor + Cable Loss –Preamplifier Factor.
- 2). As shown in Section, for frequencies above 1000 MHz. the above field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.
- 3). The test only perform the EUT in transmitting status since the test frequencies were over 1GHz only required transmitting status.
- 4). For Radiated Emissions fall in the restricted bands, which set out in Section 15.205 Restricted bands.  
Also there is not any other emission which falls in restricted bands can be detected and reported.

**Test result: The unit does meet the FCC requirements.**

## 7.4 Occupied Bandwidth

Test Requirement: FCC Part 15 C section 15.249

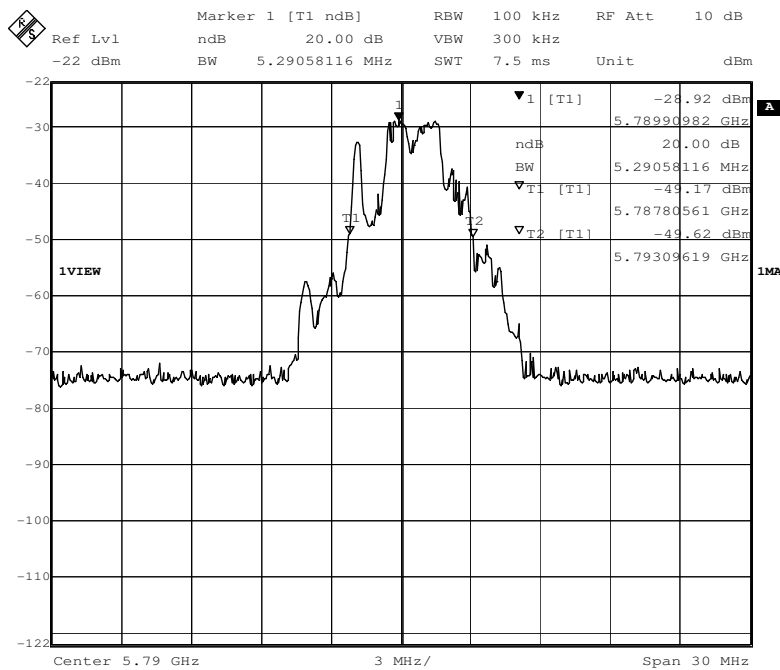
(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

Test Method: ANSI C63.10: Clause 6.9.1

Operation within the band 5.725 to 5.875 GHz

Method of measurement: A small sample of the transmitter output was fed into the Spectrum Analyzer and the attached plot was taken.

### 1. Test in the lowest frequency 5.790 GHz



After a more accurate measurement, the occupied bandwidth revises to 5.29058116MHz.

**The results: The unit does meet the FCC requirements.**

**Remark: The emissions radiated outside of the specified frequency bands meet the requirement of the limits in Section 15.209. Please refer to Section 7.3 in this report for details.**

**--End of the report--**