

# FCC REPORT

## (WIFI)

**Applicant:** SHENZHEN DOME TECHNOLOGY CO., LTD.

**Address of Applicant:** Room 1801-1808, Haiyun Building, No. 468 Minzhi Avenue, Longhua New District, Shenzhen, China 518131

### Equipment Under Test (EUT)

**Product Name:** CAR DVR

**Model No.:** G75

**FCC ID:** 2ALJ7-G70

**Applicable standards:** FCC CFR Title 47 Part 15 Subpart C Section 15.247

**Date of sample receipt:** 28 Mar., 2018

**Date of Test:** 28 Mar., to 26 Dec., 2018

**Date of report issued:** 27 Dec., 2018

**Test Result:** PASS\*

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

Authorized Signature:



Bruce Zhang  
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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## 2 Version

Version No.	Date	Description
00	27 Dec., 2018	<p><i>This report was amended on FCC ID: 2ALJ7-G70 follow FCC Class II Permissive Change. The differences between them as below: model number, appearance, loudspeaker, antenna. Base on the differences description, AC Power Line Conducted Emission and Radiated emission were re-tested.</i></p>

Tested by:

Zora Lee

Date:

27 Dec., 2018

Test Engineer

Reviewed by:

Wimer Wang

Date:

27 Dec., 2018

Project Engineer

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## 4 Test Summary

Test Items	Section in CFR 47	Result
Antenna requirement	15.203 & 15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(3)	Pass*
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Pass*
Power Spectral Density	15.247 (e)	Pass*
Band Edge	15.247 (d)	Pass*
Spurious Emission	15.205 & 15.209	Pass

*Pass: The EUT complies with the essential requirements in the standard.*  
*Pass\*: please refer to the FCC ID: 2ALJ7-G70*  
*N/A: N/A: Not Applicable.*

## 5 General Information

### 5.1 Client Information

Applicant:	SHENZHEN DOME TECHNOLOGY CO., LTD.
Address:	Room 1801-1808, Haiyun Building, No. 468 Minzhi Avenue, Longhua New District, Shenzhen, China 518131
Manufacturer/ Factory:	DONGGUAN KAKA ELECTRONIC TECHNOLOGY CO., LTD.
Address:	No.395, Huansi East Road, Shitanpu, Tangxia Town, Dongguan, Guangdong, China

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

Product Name:	CAR DVR
Model No.:	G75
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(H20)) 2422MHz~2452MHz (802.11n(H40))
Channel numbers:	11 for 802.11b/802.11g/802.11(H20) 7 for 802.11n(H40)
Channel separation:	5MHz
Modulation technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Modulation technology: (IEEE 802.11g/802.11n)	Orthogonal Frequency Division Multiplexing(OFDM)
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps
Data speed (IEEE 802.11n):	Up to 150Mbps
Antenna Type:	Internal Antenna
Antenna gain:	1.55dBi
Power supply:	DC12V/ DC 24V
Car charging:	Model No.: XHC051500 Input: DC12-24V Output: DC 5V, 1.5A

Operation Frequency each of channel for 802.11b/g/n(H20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

1. For 802.11n-HT40 mode, the channel number is from 3 to 9;
2. Channel 1, 6 & 11 selected for 802.11b/g/n-HT20 as Lowest, Middle and Highest channel, Channel; 3, 6 & 9 selected for 802.11n-HT40 as Lowest, Middle and Highest channel, Channel.

### 5.3 Test environment and test mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
Transmitting mode	Keep the EUT in continuous transmitting with modulation
<p>The sample was placed 0.8m (below 1GHz)/1.5m (above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y &amp; Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.</p> <p>We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:</p>	
Per-scan all kind of data rate, the follow list were the worst case.	
Mode	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(H20)	6.5Mbps
802.11n(H40)	13.5Mbps

### 5.4 Description of Support Units

The EUT has been tested as an independent unit.

### 5.5 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±2.22 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±2.76 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.28 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.72 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±2.88 dB (k=2)

### 5.6 Laboratory Facility

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

- **FCC - Registration No.: 727551**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The Registration No. is 727551.

- **IC - Registration No.: 10106A-1**

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **CNAS - Registration No.: CNAS L6048**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

- **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

## 5.7 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.  
 Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,  
 Bao'an District, Shenzhen, Guangdong, China  
 Tel: +86-755-23118282, Fax: +86-755-23116366  
 Email: info@ccis-cb.com, Website: http://www.ccis-cb.com

## 5.8 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	SAEMC	9m*6m*6m	966	07-22-2017	07-21-2020
Loop Antenna	SCHWARZBECK	FMZB1519B	00044	03-16-2018	03-15-2019
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-16-2018	03-15-2019
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-16-2018	03-15-2019
EMI Test Software	AUDIX	E3	6.110919b	N/A	N/A
Pre-amplifier	HP	8447D	2944A09358	03-07-2018	03-06-2019
Pre-amplifier	CD	PAP-1G18	11804	03-07-2018	03-06-2019
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-07-2018	03-06-2019
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-07-2018	03-06-2019
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2018	03-06-2019
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2018	03-06-2019
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2018	03-06-2019

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-07-2018	03-06-2019
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-07-2018	03-06-2019
LISN	CHASE	MN2050D	1447	03-19-2018	03-18-2019
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2018	07-20-2019
Cable	HP	10503A	N/A	03-07-2018	03-06-2019
EMI Test Software	AUDIX	E3	6.110919b	N/A	N/A

## 6 Test results and Measurement Data

### 6.1 Antenna requirement

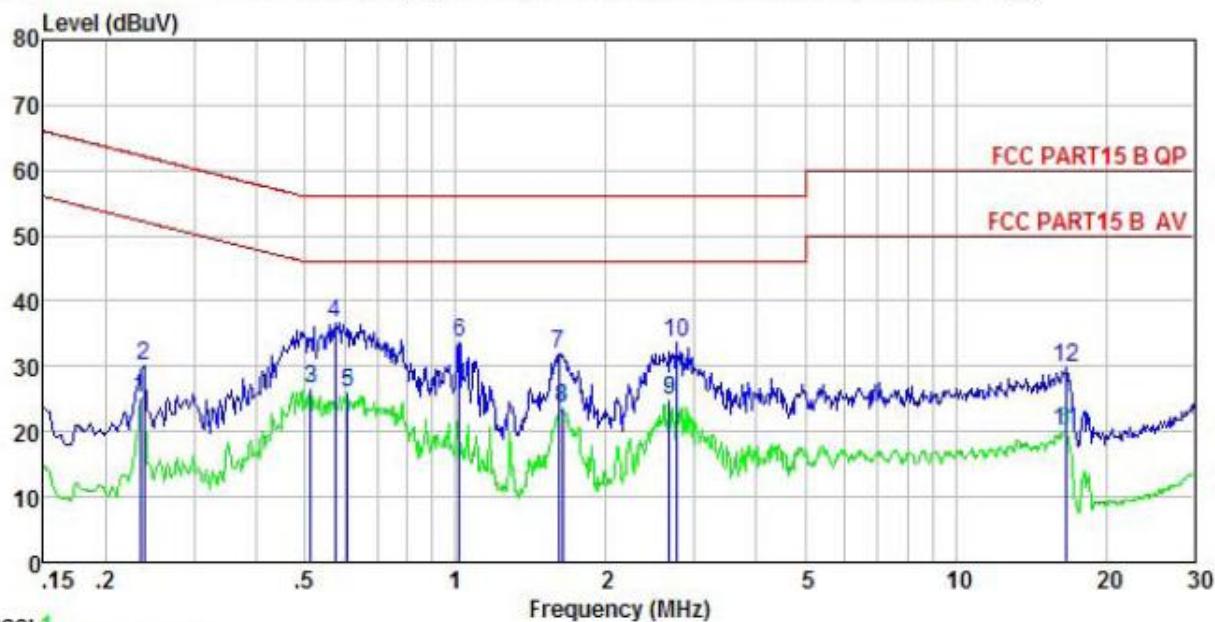
Standard requirement:	FCC Part 15 C Section 15.203 /247(c)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique 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.
<b>E.U.T Antenna:</b>	The WiFi antenna is an Internal antenna which cannot replace by end-user, the best case gain of the antenna is 1.55 dBi.

## 6.2 Conducted Emission

Test Requirement:	FCC Part 15 C Section 15.207		
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150 kHz to 30 MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9 kHz, VBW=30 kHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test procedure	<ol style="list-style-type: none"> <li>1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which provides a 50ohm/50uH coupling impedance for the measuring equipment.</li> <li>2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</li> <li>3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement.</li> </ol>		
Test setup:	<p style="text-align: center;"><b>Reference Plane</b></p> <p><i>Remark:</i>  <i>E.U.T: Equipment Under Test</i>  <i>LISN: Line Impedance Stabilization Network</i>  <i>Test table height=0.8m</i></p>		
Test Instruments:	Refer to section 5.8 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Passed		

## Measurement Data:

Product name:	CAR DVR	Product model:	G75
Test by:	Zora	Test mode:	Wi-Fi Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	DC 24V	Environment:	Temp: 22.5°C Huni: 55%

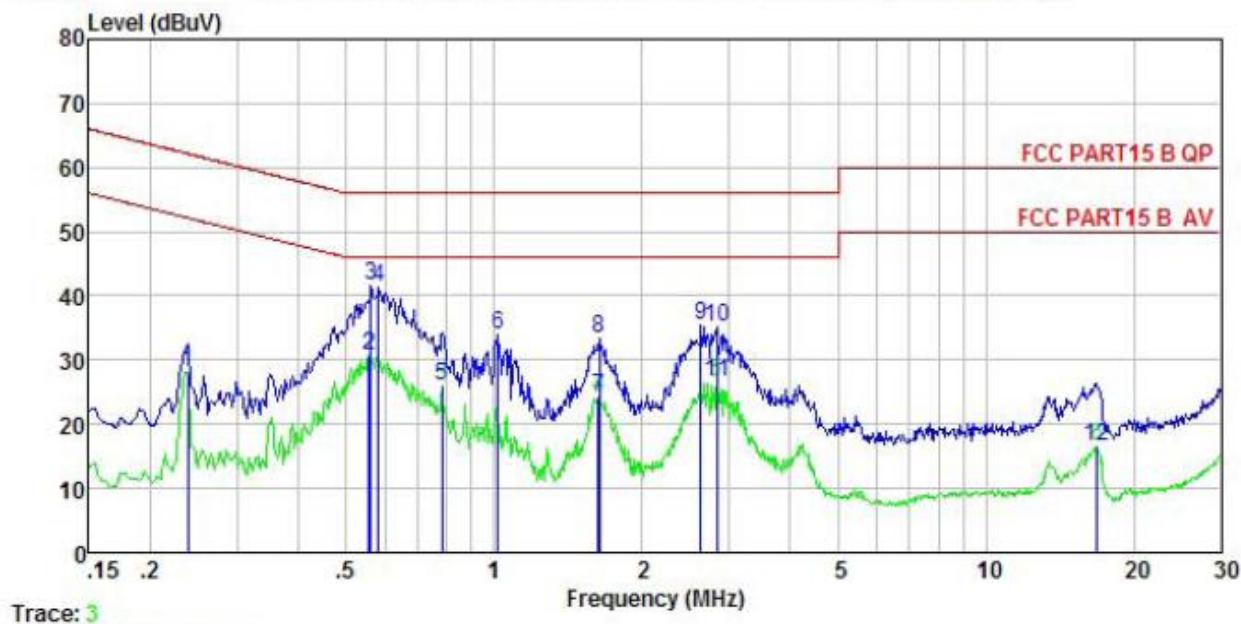


Freq MHz	Read Level dBuV	LISN Factor dB	Cable Loss dB	Limit Level dBuV	Line Limit dB	Over Limit dB	Remark
	MHz	dBuV	dB				
1	0.234	14.24	0.14	10.75	25.13	52.30	-27.17 Average
2	0.238	19.10	0.14	10.75	29.99	62.17	-32.18 QP
3	0.513	15.62	0.12	10.76	26.50	46.00	-19.50 Average
4	0.573	25.71	0.12	10.76	36.59	56.00	-19.41 QP
5	0.608	15.07	0.13	10.77	25.97	46.00	-20.03 Average
6	1.016	22.64	0.13	10.87	33.64	56.00	-22.36 QP
7	1.610	20.82	0.14	10.93	31.89	56.00	-24.11 QP
8	1.636	12.63	0.14	10.93	23.70	46.00	-22.30 Average
9	2.678	13.75	0.16	10.93	24.84	46.00	-21.16 Average
10	2.765	22.56	0.16	10.93	33.65	56.00	-22.35 QP
11	16.573	8.94	0.30	10.91	20.15	50.00	-29.85 Average
12	16.661	18.49	0.30	10.91	29.70	60.00	-30.30 QP

## Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss.

Product name:	CAR DVR	Product model:	G75
Test by:	Zora	Test mode:	Wi-Fi Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	DC 24V	Environment:	Temp: 22.5°C Huni: 55%

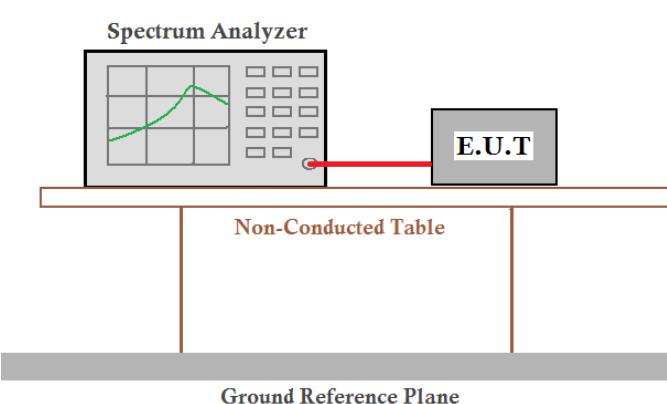


Freq MHz	Read Level dBuV	LISN Factor dB	Cable Loss dB	Level dBuV	Limit Line dBuV	Over Line dB	Over Limit Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.238	16.43	0.94	10.75	28.12	52.17	-24.05 Average
2	0.555	19.09	0.97	10.76	30.82	46.00	-15.18 Average
3	0.561	29.90	0.97	10.76	41.63	56.00	-14.37 QP
4	0.582	29.70	0.97	10.76	41.43	56.00	-14.57 QP
5	0.783	14.08	0.97	10.81	25.86	46.00	-20.14 Average
6	1.016	22.08	0.97	10.87	33.92	56.00	-22.08 QP
7	1.628	12.24	0.98	10.93	24.15	46.00	-21.85 Average
8	1.636	21.30	0.98	10.93	33.21	56.00	-22.79 QP
9	2.636	23.54	0.99	10.93	35.46	56.00	-20.54 QP
10	2.839	23.12	0.99	10.93	35.04	56.00	-20.96 QP
11	2.839	14.52	0.99	10.93	26.44	46.00	-19.56 Average
12	16.839	4.84	0.82	10.91	16.57	50.00	-33.43 Average

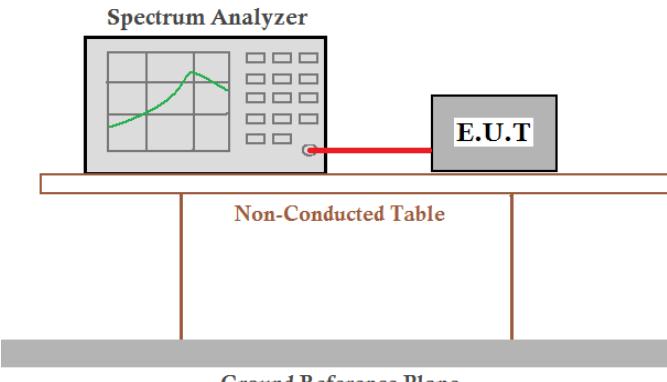
## Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss.

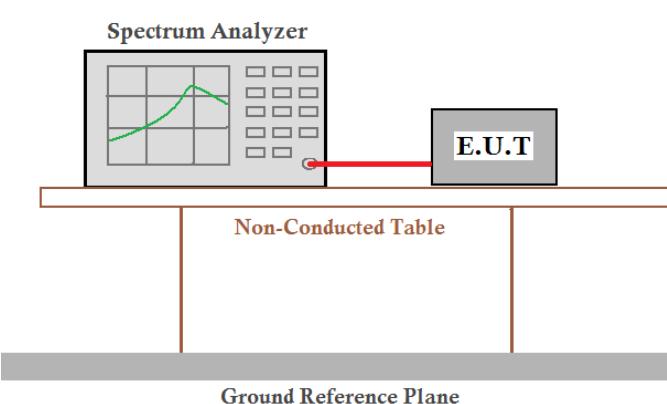
### 6.3 Conducted Output Power

Test Requirement:	FCC Part 15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.10:2013 and KDB 558074
Limit:	30dBm
Test setup:	
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Refer to the FCC ID: 2ALJ7-G70

## 6.4 Occupy Bandwidth

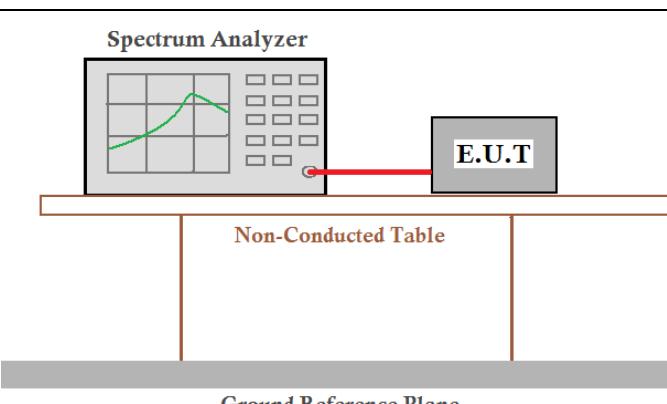
Test Requirement:	FCC Part 15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.10:2013 and KDB 558074
Limit:	>500kHz
Test setup:	
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Refer to the FCC ID: 2ALJ7-G70

## 6.5 Power Spectral Density

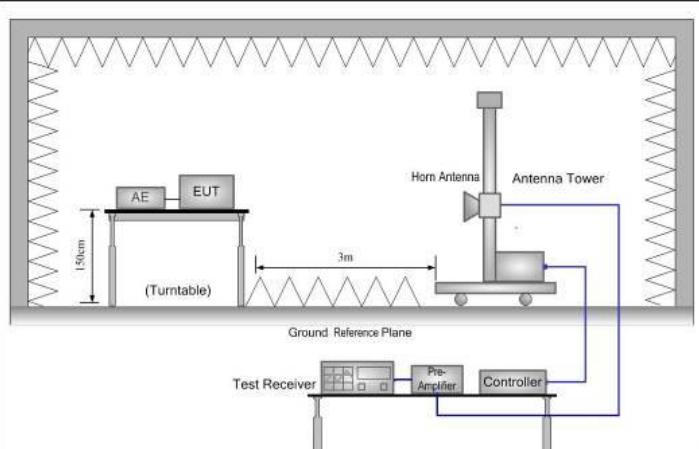
Test Requirement:	FCC Part 15 C Section 15.247 (e)
Test Method:	ANSI C63.10:2013 and KDB 558074
Limit:	8dBm
Test setup:	
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Refer to the FCC ID: 2ALJ7-G70

## 6.6 Band Edge

### 6.6.1 Conducted Emission Method

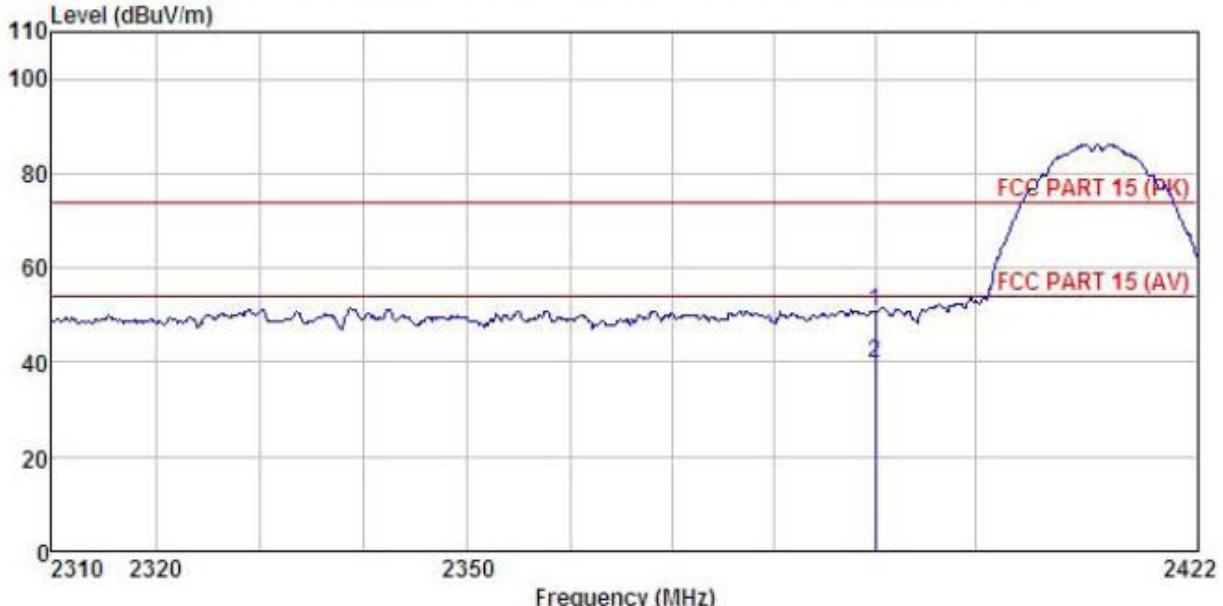
Test Requirement:	FCC Part 15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 and KDB 558074
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Refer to the FCC ID: 2ALJ7-G70

### 6.6.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.209 and 15.205								
Test Method:	ANSI C63.10: 2013 and KDB 558074								
Test Frequency Range:	2.3GHz to 2.5GHz								
Test Distance:	3m								
Receiver setup:	Frequency	Detector	RBW	VBW	Remark				
	Above 1GHz	Peak	1MHz	3MHz	Peak Value				
		RMS	1MHz	3MHz	Average Value				
Limit:	Frequency	Limit (dBuV/m @3m)		Remark					
	Above 1GHz	54.00		Average Value					
		74.00		Peak Value					
Test Procedure:	<ol style="list-style-type: none"> <li>The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>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.</li> <li>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.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>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.</li> </ol>								
Test setup:									
Test Instruments:	Refer to section 5.8 for details								
Test mode:	Refer to section 5.3 for details								
Test results:	Refer to the FCC ID: 2ALJ7-G70								

## 802.11b mode:

<b>Product Name:</b>	CAR DVR		<b>Product Model:</b>	G75	
<b>Test By:</b>	Zora		<b>Test mode:</b>	802.11b Tx mode	
<b>Test Channel:</b>	Lowest channel		<b>Polarization:</b>	Vertical	
<b>Test Voltage:</b>	DC 24V		<b>Environment:</b>	Temp: 24°C Huni: 57%	

The graph plots Level (dBuV/m) on the y-axis (0 to 110) against Frequency (MHz) on the x-axis (2310 to 2422). A blue line represents the measured emission, which is relatively flat around 50 dBuV/m until approximately 2390 MHz, where it rises sharply to a peak of about 85 dBuV/m. Two horizontal red lines represent the FCC PART 15 limits: the upper line is labeled 'FCC PART 15 (P)' and the lower line is labeled 'FCC PART 15 (AV)'. The peak of the emission curve exceeds the FCC PART 15 (P) limit. Two vertical lines are drawn at the peak frequency: line 1 is at 2390.000 MHz and line 2 is at 2390.000 MHz.

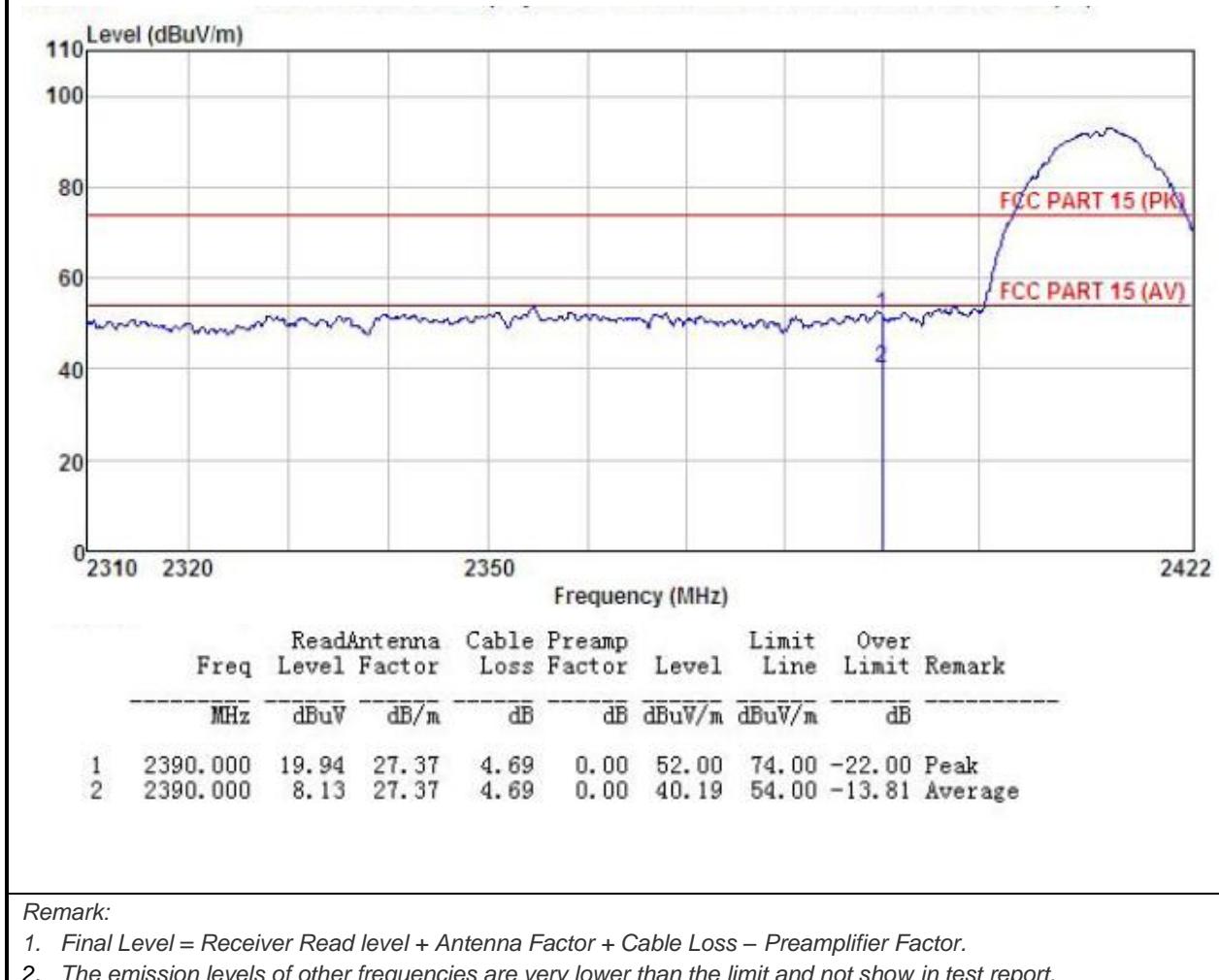
Freq	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Line Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	18.82	27.37	4.69	0.00	50.88	74.00	-23.12 Peak
2	2390.000	7.85	27.37	4.69	0.00	39.91	54.00	-14.09 Average

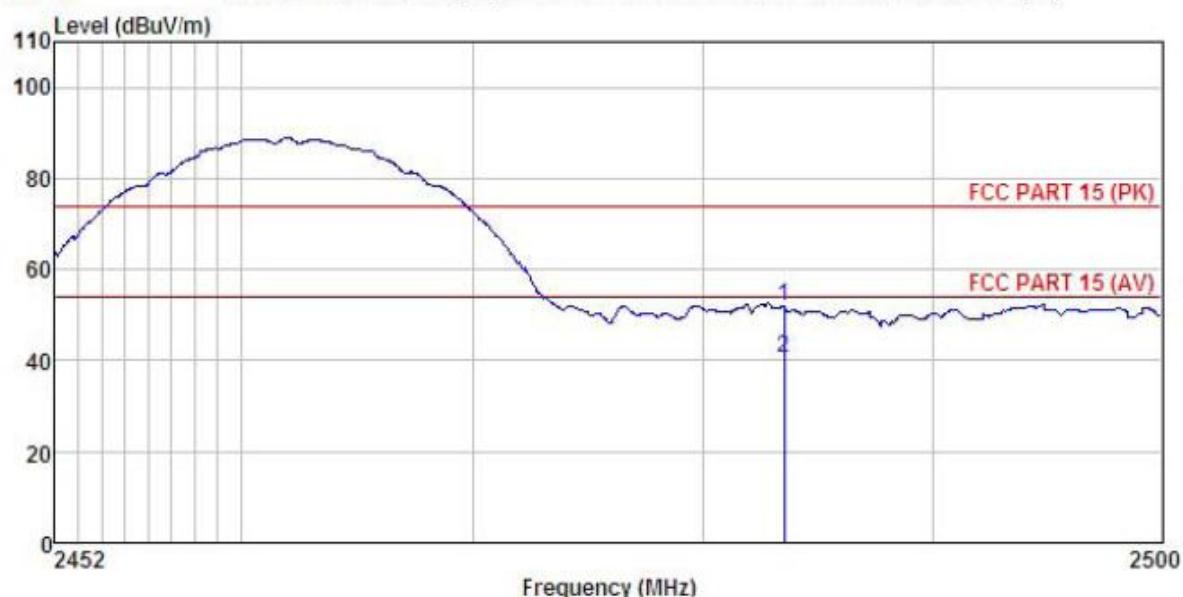
**Remark:**

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.

Product Name:	CAR DVR	Product Model:	G75
Test By:	Zora	Test mode:	802.11b Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 24V	Environment:	Temp: 24°C Huni: 57%



Product Name:	CAR DVR	Product Model:	G75
Test By:	Zora	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 24V	Environment:	Temp: 24°C Huni: 57%

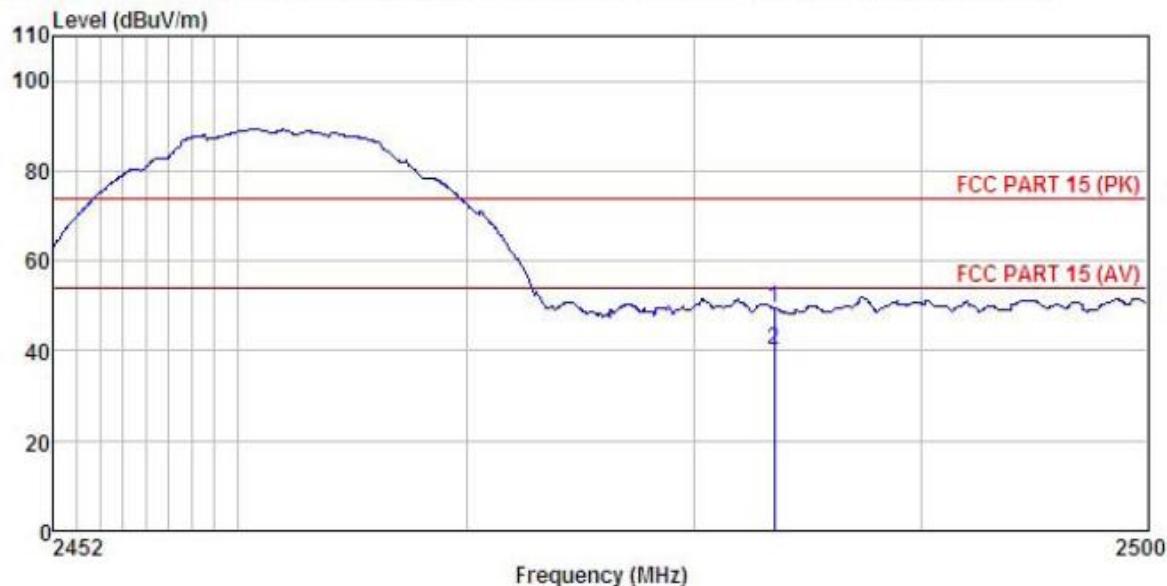


Freq	Read		Antenna		Cable		Preamp		Limit	Over	Line	Limit	Remark	
	Level	Antenna	Level	Factor	Loss	Factor	Level	dBuV/m	dBuV/m					
MHz	dBuV	dB/m			dB			dB	dBuV/m	dB				
1	2483.500	19.47	27.57	4.81	0.00	51.85	74.00	-22.15	Peak					
2	2483.500	8.41	27.57	4.81	0.00	40.79	54.00	-13.21	Average					

## Remark:

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.

Product Name:	CAR DVR	Product Model:	G75
Test By:	Zora	Test mode:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 24V	Environment:	Temp: 24°C Huni: 57%



Freq	Read Antenna Level		Cable Preamp		Limit Level	Line Limit	Over Limit	Remark
	MHz	dBuV	Antenna Factor	Cable Loss Factor				
1	2483.500	16.95	27.57	4.81	0.00	49.33	74.00	-24.67 Peak
2	2483.500	8.00	27.57	4.81	0.00	40.38	54.00	-13.62 Average

## Remark:

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.

## 802.11g mode:

<b>Product Name:</b>	CAR DVR		<b>Product Model:</b>	G75	
<b>Test By:</b>	Zora		<b>Test mode:</b>	802.11g Tx mode	
<b>Test Channel:</b>	Lowest channel		<b>Polarization:</b>	Vertical	
<b>Test Voltage:</b>	DC 24V		<b>Environment:</b>	Temp: 24°C Huni: 57%	

Level (dBuV/m)

FCC PART 15 (PK)

FCC PART 15 (AV)

Frequency (MHz)

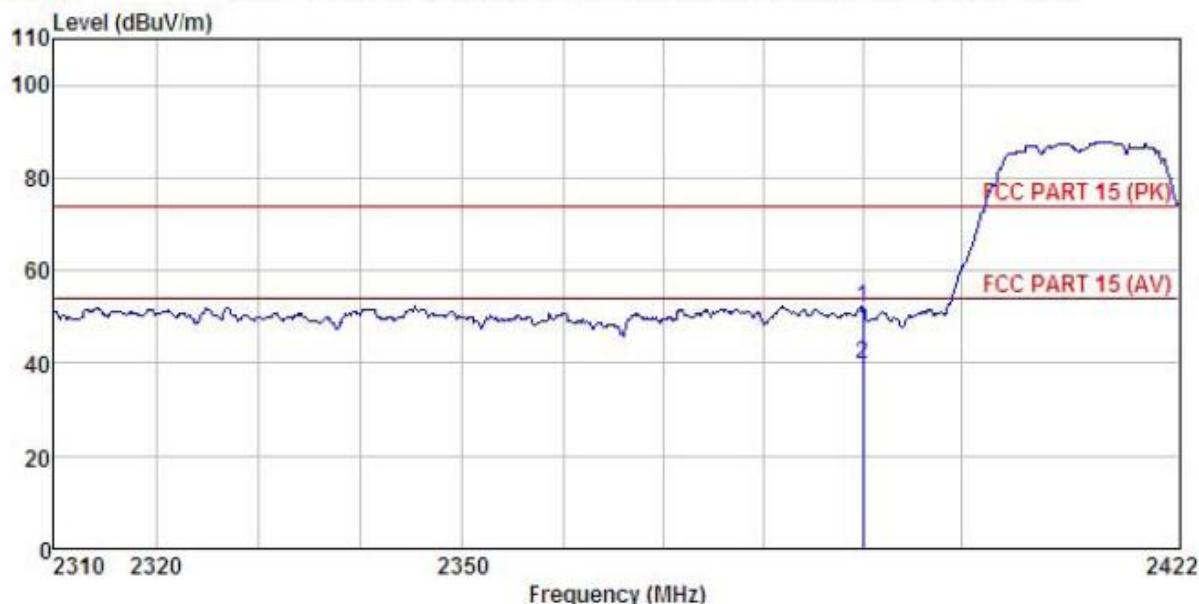
  

Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Limit Level	Line Limit	Over Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 2390.000	20.06	27.37	4.69	0.00	52.12	74.00	-21.88	Peak
2 2390.000	7.55	27.37	4.69	0.00	39.61	54.00	-14.39	Average

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	CAR DVR	Product Model:	G75
Test By:	Zora	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 24V	Environment:	Temp: 24°C Huni: 57%

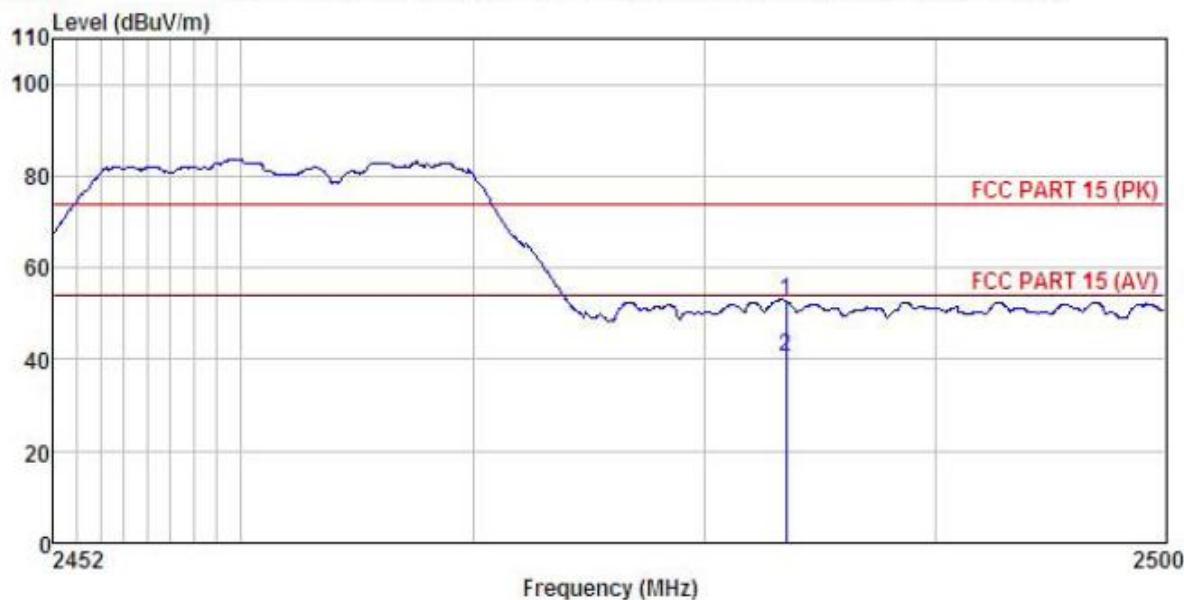


Freq	Read	Antenna	Cable	Preamp	Limit	Line	Over	Remark
	Freq	Level	Factor	Loss				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	20.08	27.37	4.69	0.00	52.14	74.00	-21.86 Peak
2	2390.000	7.90	27.37	4.69	0.00	39.96	54.00	-14.04 Average

## Remark:

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.

Product Name:	CAR DVR	Product Model:	G75
Test By:	Zora	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 24V	Environment:	Temp: 24°C Huni: 57%

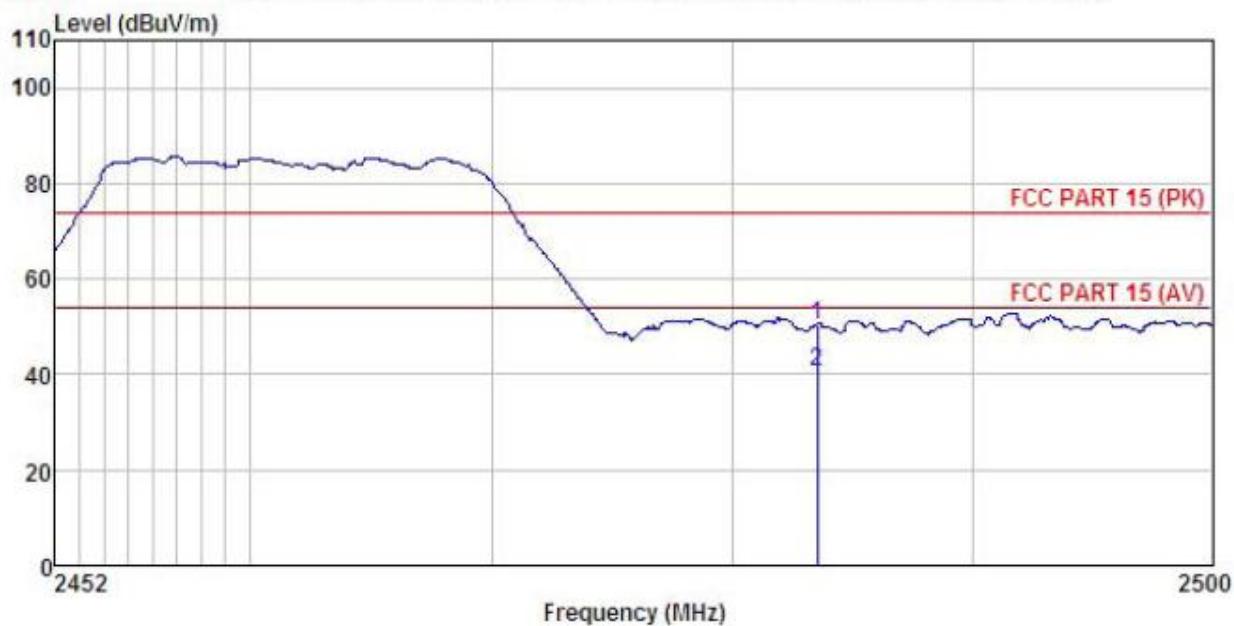


Freq	Read	Antenna	Cable	Preamp	Limit	Over	Remark	
	Freq	Level	Factor	Loss				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2483.500	20.46	27.57	4.81	0.00	52.84	74.00	-21.16 Peak
2	2483.500	8.32	27.57	4.81	0.00	40.70	54.00	-13.30 Average

## Remark:

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.

Product Name:	CAR DVR	Product Model:	G75
Test By:	Zora	Test mode:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 24V	Environment:	Temp: 24°C Huni: 57%

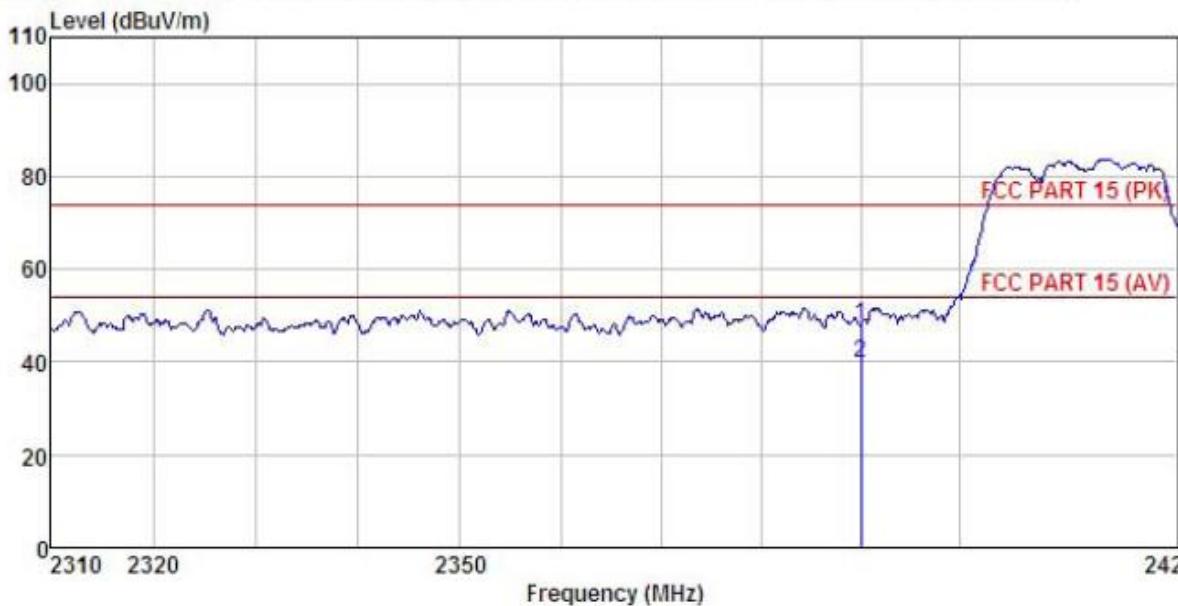


Freq	Read	Antenna	Cable	Preamp	Limit	Over	Remark	
	Freq	Level	Factor	Loss	Level	Line		
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2483.500	18.14	27.57	4.81	0.00	50.52	74.00	-23.48 Peak
2	2483.500	8.28	27.57	4.81	0.00	40.66	54.00	-13.34 Average

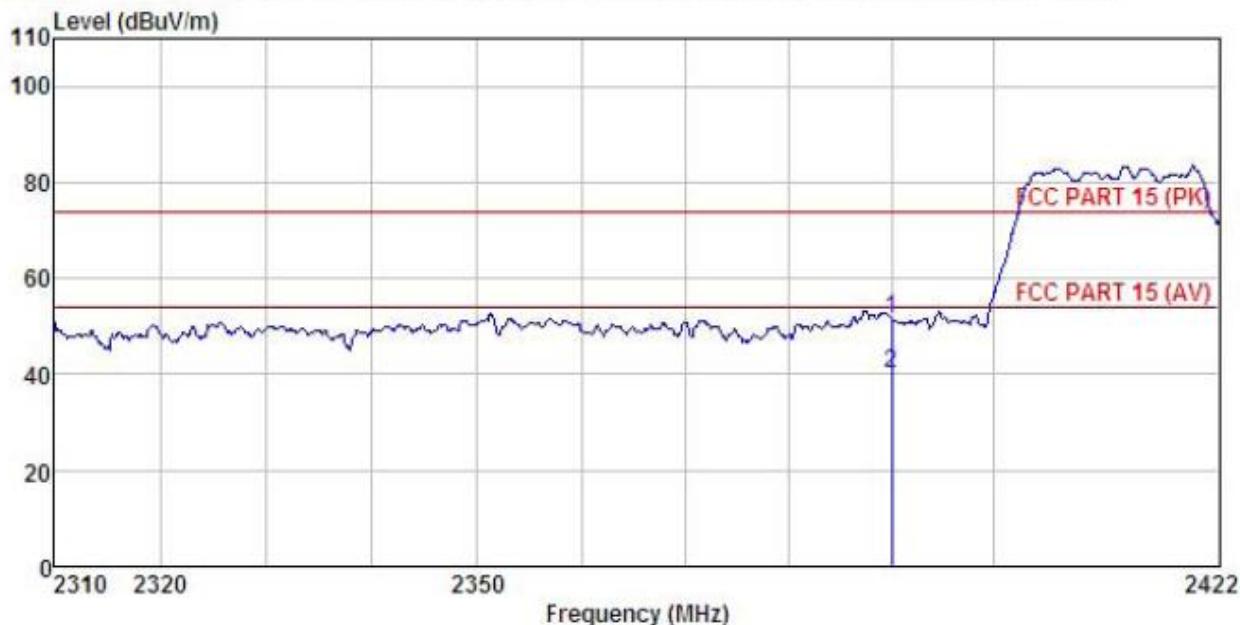
## Remark:

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.

## 802.11n(HT20):

Product Name:	CAR DVR		Product Model:	G75																																													
Test By:	Zora		Test mode:	802.11n(HT20) Tx mode																																													
Test Channel:	Lowest channel		Polarization:	Vertical																																													
Test Voltage:	DC 24V		Environment:	Temp: 24°C Huni: 57%																																													
																																																	
<table border="1"> <thead> <tr> <th></th> <th>Read</th> <th>Antenna</th> <th>Cable</th> <th>Preamp</th> <th>Limit</th> <th>Over</th> <th></th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> <th>Level</th> <th>Line</th> <th>Limit</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>MHz</td> <td>dBuV</td> <td>dB/m</td> <td>dB</td> <td>dB</td> <td>dBuV/m</td> <td>dBuV/m</td> <td>dB</td> <td></td> </tr> <tr> <td>1 2390.000</td> <td>15.88</td> <td>27.37</td> <td>4.69</td> <td>0.00</td> <td>47.94</td> <td>74.00</td> <td>-26.06</td> <td>Peak</td> </tr> <tr> <td>2 2390.000</td> <td>7.74</td> <td>27.37</td> <td>4.69</td> <td>0.00</td> <td>39.80</td> <td>54.00</td> <td>-14.20</td> <td>Average</td> </tr> </tbody> </table>							Read	Antenna	Cable	Preamp	Limit	Over		Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		1 2390.000	15.88	27.37	4.69	0.00	47.94	74.00	-26.06	Peak	2 2390.000	7.74	27.37	4.69	0.00	39.80	54.00	-14.20	Average
	Read	Antenna	Cable	Preamp	Limit	Over																																											
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark																																									
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB																																										
1 2390.000	15.88	27.37	4.69	0.00	47.94	74.00	-26.06	Peak																																									
2 2390.000	7.74	27.37	4.69	0.00	39.80	54.00	-14.20	Average																																									
<p>Remark:</p> <ol style="list-style-type: none"> <li>Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.</li> <li>The emission levels of other frequencies are very lower than the limit and not show in test report.</li> </ol>																																																	

Product Name:	CAR DVR	Product Model:	G75
Test By:	Zora	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 24V	Environment:	Temp: 24°C Huni: 57%

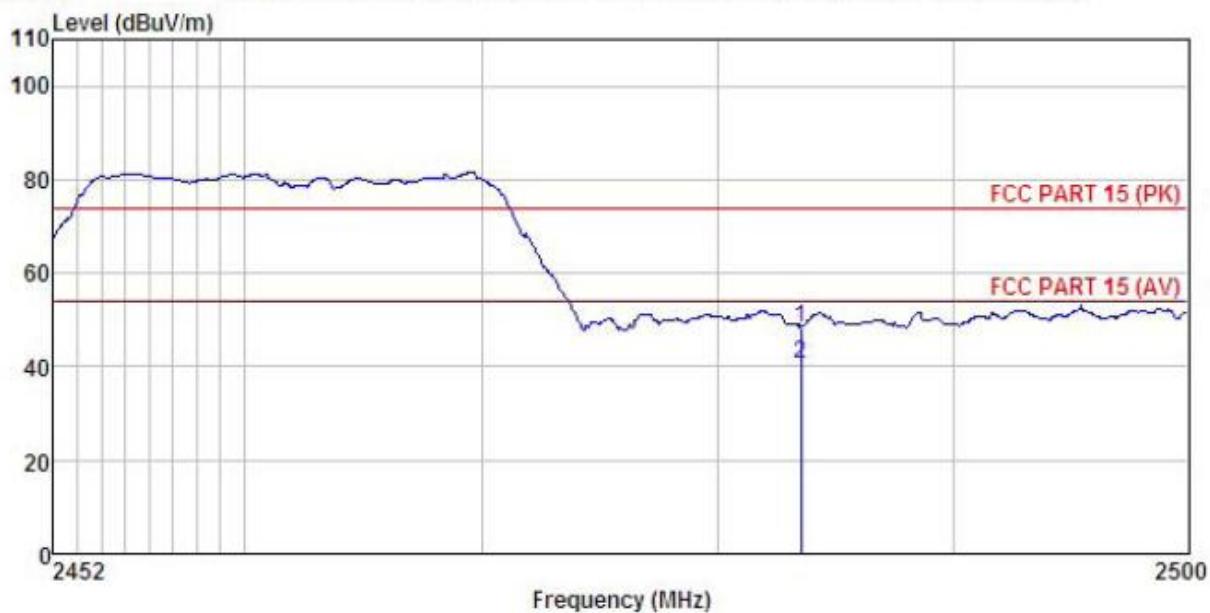


Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Over	Remark
	MHz	dBuV	Level Factor	dB		dB	dBuV/m	dBuV/m	dB	
1	2390.000	19.46	27.37	4.69	0.00	51.52	74.00	-22.48	Peak	
2	2390.000	8.04	27.37	4.69	0.00	40.10	54.00	-13.90	Average	

## Remark:

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.

Product Name:	CAR DVR	Product Model:	G75
Test By:	Zora	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 24V	Environment:	Temp: 24°C Huni: 57%

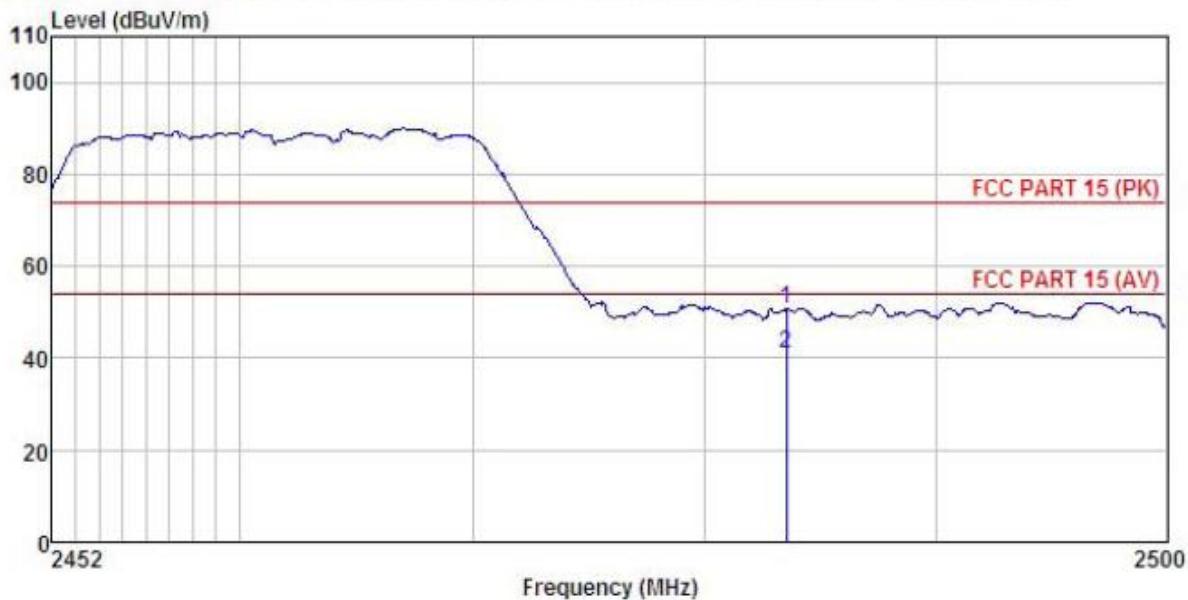


Freq MHz	Read	Antenna Level Factor	Cable Loss Factor	Preamp Level dB	Limit Level dB	Line dBuV/m	Over Line dBuV/m	Over Line dB	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	dB	
1	2483.500	16.10	27.57	4.81	0.00	48.48	74.00	-25.52	Peak
2	2483.500	8.37	27.57	4.81	0.00	40.75	54.00	-13.25	Average

## Remark:

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.

Product Name:	CAR DVR	Product Model:	G75
Test By:	Zora	Test mode:	802.11n(HT20) Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 24V	Environment:	Temp: 24°C Huni: 57%



Freq	Read	Antenna	Cable	Preamp	Limit	Over	Line	Limit	Remark
	MHz	dBuV	Level	Factor					
1	2483.500	18.16	27.57	4.81	0.00	50.54	74.00	-23.46	Peak
2	2483.500	8.56	27.57	4.81	0.00	40.94	54.00	-13.06	Average

Remark:

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.

## 802.11n(HT40):

<b>Product Name:</b>	CAR DVR		<b>Product Model:</b>	G75
<b>Test By:</b>	Zora		<b>Test mode:</b>	802.11n(HT40) Tx mode
<b>Test Channel:</b>	Lowest channel		<b>Polarization:</b>	Vertical
<b>Test Voltage:</b>	DC 24V		<b>Environment:</b>	Temp: 24°C Huni: 57%

Level (dBuV/m)

Frequency (MHz)

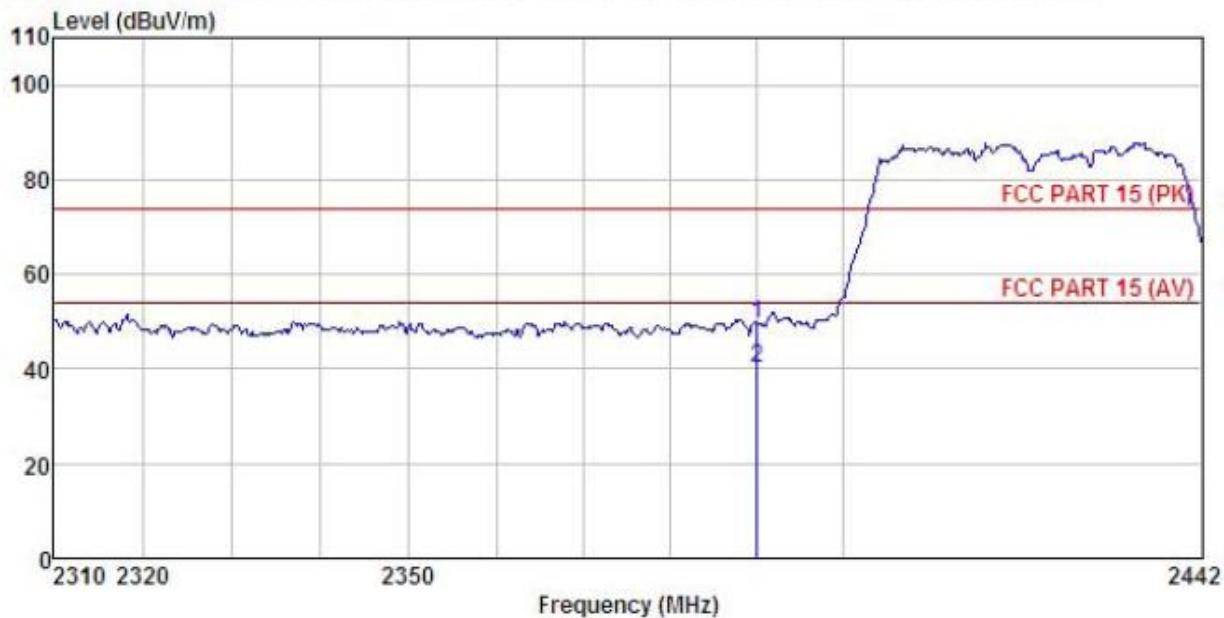
Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Line Level	Limit	Over Line Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	17.26	27.37	4.69	0.00	49.32	74.00	-24.68 Peak
2	2390.000	8.11	27.37	4.69	0.00	40.17	54.00	-13.83 Average

Remark:

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.

Product Name:	CAR DVR	Product Model:	G75
Test By:	Zora	Test mode:	802.11n(HT40) Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	DC 24V	Environment:	Temp: 24°C Huni: 57%

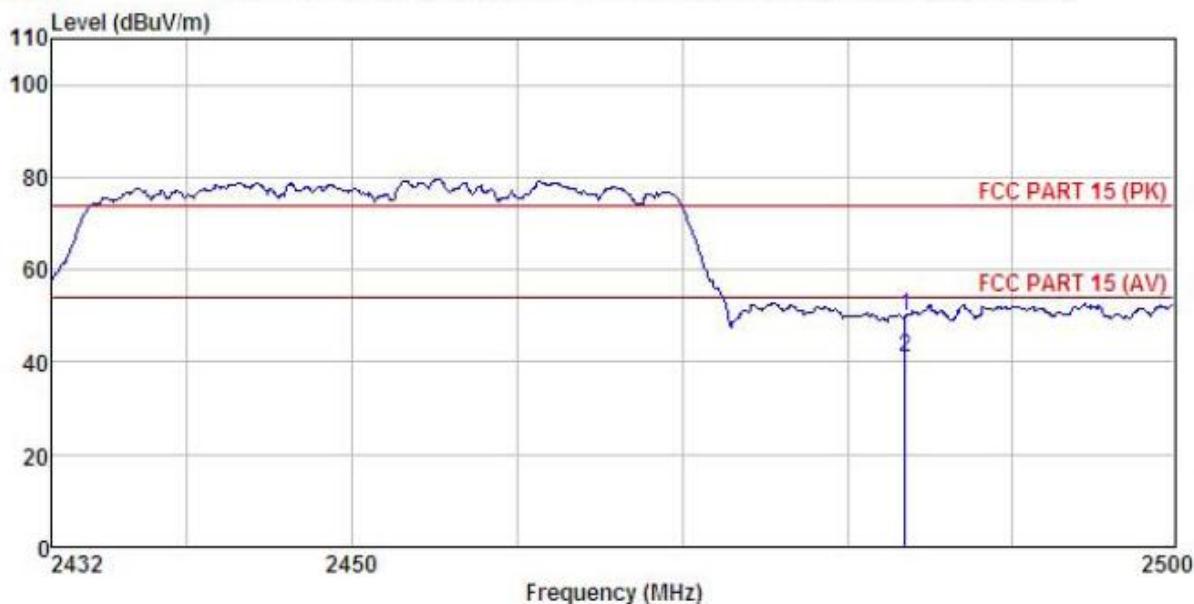


Freq MHz	Read Level dBuV	Antenna Factor dB/m	Cable Loss Factor dB	Preamp Level dB	Line Limit dBuV/m	Over Line Limit dBuV/m	Over Line Limit dB	Remark
1 2390.000	17.66	27.37	4.69	0.00	49.72	74.00	-24.28	Peak
2 2390.000	8.24	27.37	4.69	0.00	40.30	54.00	-13.70	Average

## Remark:

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.

Product Name:	CAR DVR	Product Model:	G75
Test By:	Zora	Test mode:	802.11n(HT40) Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	DC 24V	Environment:	Temp: 24°C Huni: 57%

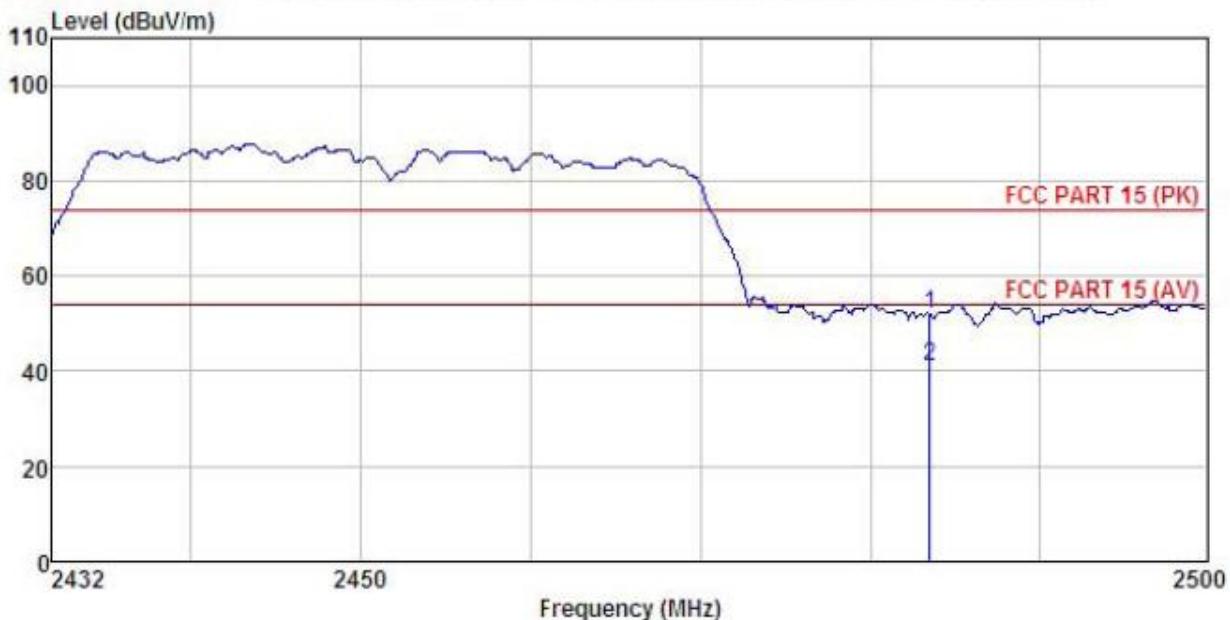


Freq MHz	Read	Antenna Level dBuV	Cable Loss dB	Preamp Factor dB	Preamp Level dBuV/m	Limit Line dBuV/m	Over Line dB	Over Line Remark
	Antenna Level dB/m	Cable Loss dB	Preamp Factor dB	Preamp Level dBuV/m	Limit Line dBuV/m	Over Line dB	Over Line Remark	Over Line Remark
1 2483.500	17.58	27.57	4.81	0.00	49.96	74.00	-24.04	Peak
2 2483.500	8.75	27.57	4.81	0.00	41.13	54.00	-12.87	Average

## Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	CAR DVR	Product Model:	G75
Test By:	Zora	Test mode:	802.11n(HT40) Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	DC 24V	Environment:	Temp: 24°C Huni: 57%



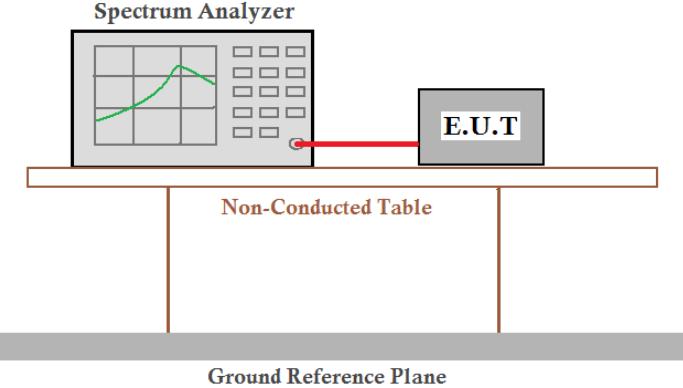
Freq	ReadAntenna		Cable		Preamp	Limit	Over	Remark
	Freq	Level	Antenna	Cable				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2483.500	19.63	27.57	4.81	0.00	52.01	74.00	-21.99 Peak
2	2483.500	8.61	27.57	4.81	0.00	40.99	54.00	-13.01 Average

## Remark:

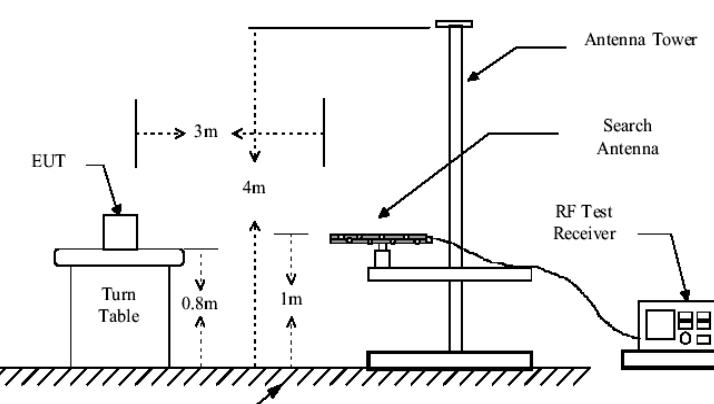
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

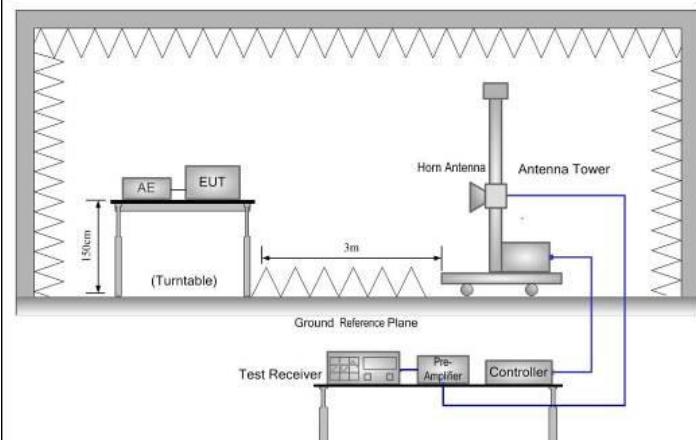
## 6.7 Spurious Emission

### 6.7.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 and KDB 558074
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph(b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
Test setup:	<p style="text-align: center;">    <b>Spectrum Analyzer</b>  <b>E.U.T</b>  <b>Non-Conducted Table</b>  <b>Ground Reference Plane</b> </p>
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Refer to the FCC ID: 2ALJ7-G70

### 6.7.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.209 and 15.205								
Test Method:	ANSI C63.10:2013								
Test Frequency Range:	9kHz to 25GHz								
Test Distance:	3m								
Receiver setup:	Frequency	Detector	RBW	VBW	Remark				
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value				
	Above 1GHz	Peak	1MHz	3MHz	Peak Value				
Limit:	Frequency	Limit (dBuV/m @3m)		Remark					
	30MHz-88MHz	40.0		Quasi-peak Value					
	88MHz-216MHz	43.5		Quasi-peak Value					
	216MHz-960MHz	46.0		Quasi-peak Value					
	960MHz-1GHz	54.0		Quasi-peak Value					
	Above 1GHz	54.0		Average Value					
		74.0		Peak Value					
Test Procedure:	<ol style="list-style-type: none"> <li>The EUT was placed on the top of a rotating table 0.8m(below 1GHz)/1.5m(above 1GHz) above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>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.</li> <li>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.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>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.</li> </ol>								
Test setup:	<p>Below 1GHz</p>  <p>Above 1GHz</p>								

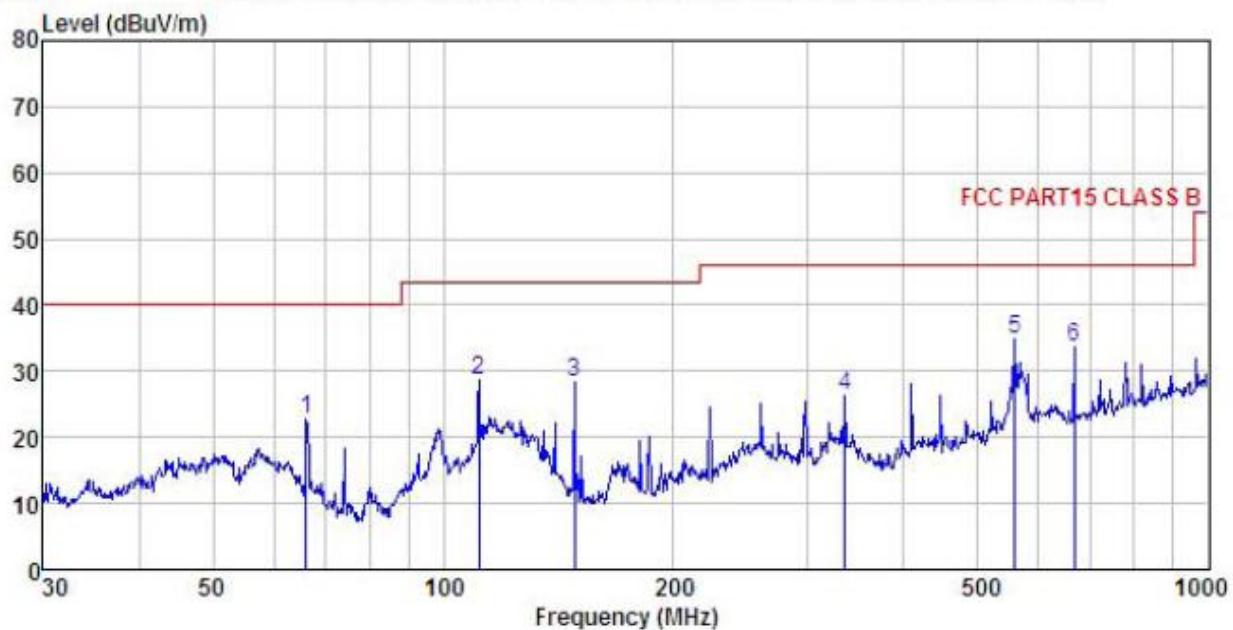


Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	<ol style="list-style-type: none"><li>1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case.</li><li>2. 9 kHz to 30MHz is too low, so only shows the data of above 30MHz in this report.</li></ol>

## Measurement Data (worst case):

Below 1GHz:

Product Name:	CAR DVR	Product Model:	G75
Test By:	Zora	Test mode:	Wi-Fi Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	DC 12V	Environment:	Temp: 24°C Huni: 57%

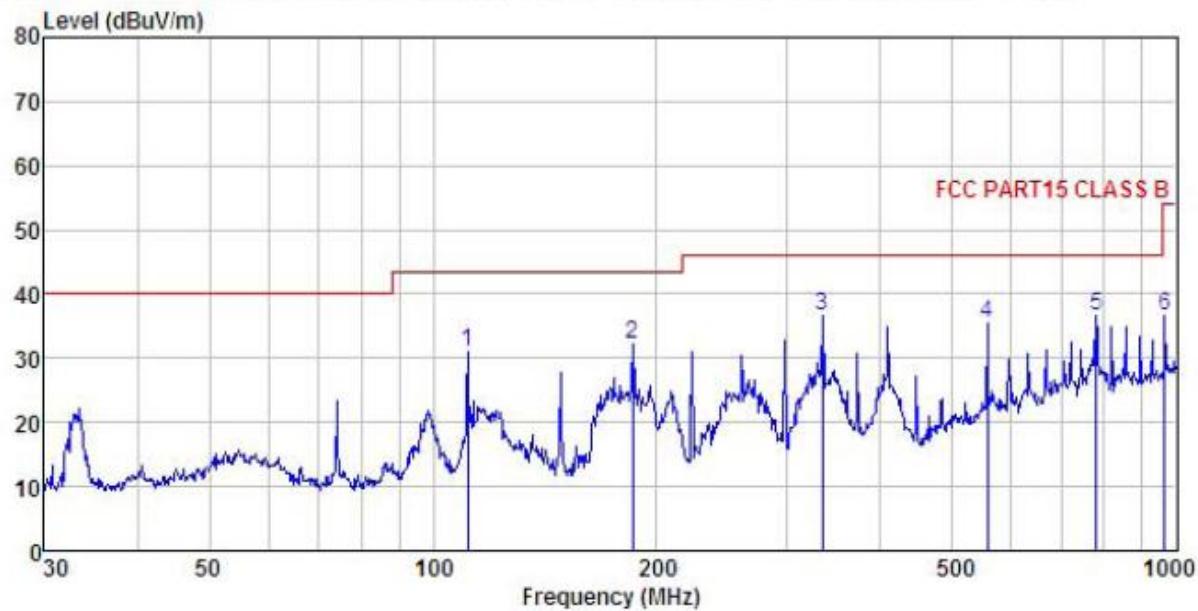


Freq	Read	Antenna	Cable	Preamp	Limit	Over	Line	Over
	Level	Factor	Loss	Factor				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB
1	66.266	40.90	10.27	1.41	29.75	22.83	40.00	-17.17 QP
2	111.347	44.13	12.01	2.07	29.45	28.76	43.50	-14.74 QP
3	148.441	46.60	8.52	2.50	29.23	28.39	43.50	-15.11 QP
4	334.859	37.58	14.31	3.05	28.53	26.41	46.00	-19.59 QP
5	558.730	41.88	18.22	3.90	29.07	34.93	46.00	-11.07 QP
6	668.142	38.51	19.80	3.97	28.74	33.54	46.00	-12.46 QP

## Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.

<b>Product Name:</b>	CAR DVR	<b>Product Model:</b>	G75
<b>Test By:</b>	Zora	<b>Test mode:</b>	Wi-Fi Tx mode
<b>Test Frequency:</b>	30 MHz ~ 1 GHz	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	DC 12V	<b>Environment:</b>	Temp: 24°C Huni: 57%



Freq MHz	Read	Antenna	Cable	Preamp	Limit Line dBuV/m	Over Line dB	Over Limit Remark
	Level MHz	Factor	Loss dB	Factor			
1 111.347	46.34	12.01	2.07	29.45	30.97	43.50	-12.53 QP
2 185.788	47.71	10.62	2.77	28.93	32.17	43.50	-11.33 QP
3 333.687	47.83	14.29	3.05	28.52	36.65	46.00	-9.35 QP
4 556.774	42.54	18.17	3.90	29.08	35.53	46.00	-10.47 QP
5 779.607	39.65	21.00	4.35	28.31	36.69	46.00	-9.31 QP
6 965.542	37.56	22.53	4.29	27.63	36.75	54.00	-17.25 QP

## Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.

## Above 1GHz

802.11b								
Test channel: Lowest channel								
Detector: 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
4824.00	49.78	30.94	6.81	41.82	45.71	74.00	-28.29	Vertical
4824.00	51.64	30.94	6.81	41.82	47.57	74.00	-26.43	Horizontal
Detector: 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
4824.00	44.56	30.94	6.81	41.82	40.49	54.00	-13.51	Vertical
4824.00	48.68	30.94	6.81	41.82	44.61	54.00	-9.39	Horizontal
Test channel: Middle channel								
Detector: 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
4874.00	49.62	31.20	6.85	41.84	45.83	74.00	-28.17	Vertical
4874.00	50.45	31.20	6.85	41.84	46.66	74.00	-27.34	Horizontal
Detector: 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
4874.00	44.36	31.20	6.85	41.84	40.57	54.00	-13.43	Vertical
4874.00	47.12	31.20	6.85	41.84	43.33	54.00	-10.67	Horizontal
Test channel: Highest channel								
Detector: 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
4924.00	48.07	31.46	6.89	41.86	44.56	74.00	-29.44	Vertical
4924.00	50.10	31.46	6.89	41.86	46.59	74.00	-27.41	Horizontal
Detector: 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
4924.00	43.91	31.46	6.89	41.86	40.40	54.00	-13.60	Vertical
4924.00	47.76	31.46	6.89	41.86	44.25	54.00	-9.75	Horizontal

## Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.

802.11g								
Test channel: Lowest channel								
Detector: 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
4824.00	47.26	30.94	6.81	41.82	43.19	74.00	-30.81	Vertical
4824.00	48.63	30.94	6.81	41.82	44.56	74.00	-29.44	Horizontal
Detector: 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
4824.00	43.57	30.94	6.81	41.82	39.50	54.00	-14.50	Vertical
4824.00	45.36	30.94	6.81	41.82	41.29	54.00	-12.71	Horizontal
Test channel: Middle channel								
Detector: 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
4874.00	47.15	31.20	6.85	41.84	43.36	74.00	-30.64	Vertical
4874.00	49.26	31.20	6.85	41.84	45.47	74.00	-28.53	Horizontal
Detector: 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
4874.00	43.15	31.20	6.85	41.84	39.36	54.00	-14.64	Vertical
4874.00	44.89	31.20	6.85	41.84	41.10	54.00	-12.90	Horizontal
Test channel: Highest channel								
Detector: 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
4924.00	47.52	31.46	6.89	41.86	44.01	74.00	-29.99	Vertical
4924.00	48.52	31.46	6.89	41.86	45.01	74.00	-28.99	Horizontal
Detector: 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
4924.00	43.27	31.46	6.89	41.86	39.76	54.00	-14.24	Vertical
4924.00	44.86	31.46	6.89	41.86	41.35	54.00	-12.65	Horizontal

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.

802.11n(HT20)								
Test channel: Lowest channel								
Detector: 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
4824.00	47.56	36.06	6.81	41.82	48.61	74.00	-25.39	Vertical
4824.00	48.69	36.06	6.81	41.82	49.74	74.00	-24.26	Horizontal
Detector: 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
4824.00	43.25	36.06	6.81	41.82	44.30	54.00	-9.70	Vertical
4824.00	44.17	36.06	6.81	41.82	45.22	54.00	-8.78	Horizontal
Test channel: Middle channel								
Detector: 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
4874.00	46.89	36.32	6.85	41.84	48.22	74.00	-25.78	Vertical
4874.00	48.57	36.32	6.85	41.84	49.90	74.00	-24.10	Horizontal
Detector: 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
4874.00	42.69	36.32	6.85	41.84	44.02	54.00	-9.98	Vertical
4874.00	44.14	36.32	6.85	41.84	45.47	54.00	-8.53	Horizontal
Test channel: Highest channel								
Detector: 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
4924.00	47.62	36.58	6.89	41.86	49.23	74.00	-24.77	Vertical
4924.00	47.95	36.58	6.89	41.86	49.56	74.00	-24.44	Horizontal
Detector: 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
4924.00	43.56	36.58	6.89	41.86	45.17	54.00	-8.83	Vertical
4924.00	43.75	36.58	6.89	41.86	45.36	54.00	-8.64	Horizontal

## Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.

802.11n(HT40)								
Test channel: Lowest channel								
Detector: 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
4844.00	47.56	36.06	6.81	41.82	48.61	74.00	-25.39	Vertical
4844.00	48.25	36.06	6.81	41.82	49.30	74.00	-24.70	Horizontal
Detector: 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
4844.00	43.52	36.06	6.81	41.82	44.57	54.00	-9.43	Vertical
4844.00	44.17	36.06	6.81	41.82	45.22	54.00	-8.78	Horizontal
Test channel: Middle channel								
Detector: 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
4874.00	47.69	36.32	6.85	41.84	49.02	74.00	-24.98	Vertical
4874.00	47.85	36.32	6.85	41.84	49.18	74.00	-24.82	Horizontal
Detector: 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
4874.00	43.63	36.32	6.85	41.84	44.96	54.00	-9.04	Vertical
4874.00	43.79	36.32	6.85	41.84	45.12	54.00	-8.88	Horizontal
Test channel: Highest channel								
Detector: 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
4904.00	46.85	36.45	6.87	41.85	48.32	74.00	-25.68	Vertical
4904.00	48.19	36.45	6.87	41.85	49.66	74.00	-24.34	Horizontal
Detector: 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
4904.00	42.89	36.45	6.87	41.85	44.36	54.00	-9.64	Vertical
4904.00	43.92	36.45	6.87	41.85	45.39	54.00	-8.61	Horizontal

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.