

FCC Test Report

Report No. : 1812C50233112501

Applicant : VIETNAM LAC HAO ELECTRONIC

TECHNOLOGY CO.,LTD

Address Hoe Lam Hamlet, Ngoc Lam Commune, My

Hao District, Hung Yen Province, Vietnam

Product Name : UNIVERSAL WIRELESS CHARGING CAR

MOUNT

Report Date : 2025-06-17

Shenzhen Anbotek Compliance Laboratory Limited

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TEST REPORT

Applicant : VIETNAM LAC HAO ELECTRONIC TECHNOLOGY CO.,LTD

Manufacturer : VIETNAM LAC HAO ELECTRONIC TECHNOLOGY CO.,LTD

Product Name : UNIVERSAL WIRELESS CHARGING CAR MOUNT

Model No. : 2IHCM1012-BLK-G7, 2IHCM1012

Trade Mark : iHome

Rating(s) Input: 5V=2A, 9V=2A

Wireless Charging Output: 15W/10W/7.5W/5W

Test Standard(s) : 47 CFR Part 15 Subpart C

Test Method(s) : ANSI C63.10: 2020

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the 47 CFR Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt

2025-05-19

Date of Test

2025-05-19 to 2025-06-03

Cicla Clen

(Cecilia Chen)

Approved & Authorized Signer

(Hugo Chen)

Shenzhen Anbotek Compliance Laboratory Limited





Revision History

Report Version	Description	Issued Date
R00	Original Issue.	2025-06-17

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1. General Information

1.1. Client Information

Applicant	:	VIETNAM LAC HAO ELECTRONIC TECHNOLOGY CO.,LTD
Address	:	Hoe Lam Hamlet, Ngoc Lam Commune, My Hao District, Hung Yen
Manufacturan		Province, Vietnam
Manufacturer	•	VIETNAM LAC HAO ELECTRONIC TECHNOLOGY CO.,LTD
Address	:	Hoe Lam Hamlet, Ngoc Lam Commune, My Hao District, Hung Yen Province, Vietnam
Factory	:	VIETNAM LAC HAO ELECTRONIC TECHNOLOGY CO.,LTD
Address	:	Hoe Lam Hamlet, Ngoc Lam Commune, My Hao District, Hung Yen Province, Vietnam

1.2. Description of Device (EUT)

Product Name	:	UNIVERSAL WIRELESS CHARGING CAR MOUNT		
		2IHCM1012-BLK-G7, 2IHCM1012		
Model No.	:	(Note: All samples are the same except the model number and		
		appearance color, so we prepare "2IHCM1012-BLK-G7" for test only.)		
Trade Mark	:	iHome		
Test Power Supply	:	DC 5V from adapter input AC 120V/60Hz		
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)		
Adapter	:	N/A		
RF Specification				
Operation Frequency	:	120-208kHz		
Modulation Type	:	ASK		
Antenna Type	:	Inductive loop coil Antenna		
Remark: 1) All of the RF specification are provided by customer. 2) For a more detailed features				
description, please refer to the manufacturer's specifications or the User's Manual.				

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1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
Apple Phone	Apple	iPhone 12	DNPDJC7T0DYF
Xiaomi 33W adapter	Xiaomi	MDY-11-EX	SA62212LA04358J

1.4. Description of Test Modes

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

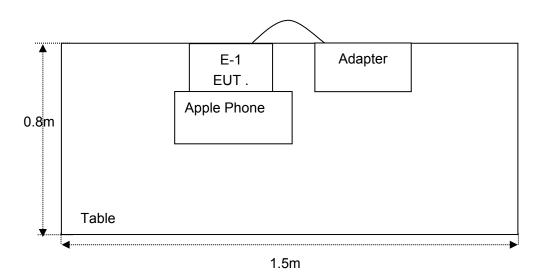
Pretest Modes	Descriptions			
TM1	Adapter+WTP Mode (15W 1% Load)			
TM2	Adapter+WTP Mode (15W 50% Load)			
TM3	Adapter+WTP Mode (15W 99% Load)			
TM4	Adapter+WTP Mode (10W 1% Load)			
TM5	Adapter+WTP Mode (10W 50% Load)			
TM6	Adapter+WTP Mode (10W 99% Load)			
TM7	Adapter+WTP Mode (7.5W 1% Load)			
TM8	Adapter+WTP Mode (7.5W 50% Load)			
TM9	Adapter+WTP Mode (7.5W 99% Load)			
TM10	Adapter+WTP Mode (5W 1% Load)			
TM11	Adapter+WTP Mode (5W 50% Load)			
TM12	Adapter+WTP Mode (5W 99% Load)			
TM13	Standby Mode			

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1.5. Description Of Test Setup

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1.6. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-09-09	1 Year
2.	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT00	2025-01-13	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	2025-01-13	1 Year
4.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2025-01-14	1 Year
5.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	2024-09-09	1 Year
6.	EMI Preamplifier	SKET Electronic	LNPA-0118G- 45	SKET-PA-002	2025-01-13	1 Year
7.	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	3 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	3 Year
9.	Loop Antenna(9K- 30M)	Schwarzbeck	FMZB1519B	00053	2024-09-12	1 Year
10.	Horn Antenna	A-INFO	LB-180400-KF	J211060628	2024-01-22	3 Year
11.	Pre-amplifier	SONOMA	310N	186860	2025-01-14	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
13.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	2024-09-09	1 Year
14.	MXG RF Vector Signal Generator	Agilent	N5182A	MY47420647	2025-01-14	1 Year
15.	Signal Generator	Agilent	E4421B	MY41000743	2025-02-21	1 Year
16.	DC Power Supply	IVYTECH	IV3605	1804D360510	2024-09-09	1 Year
17.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	N/A	2024-10-14	1 Year
18.	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2025-04-25	1 Year

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1.7. Measurement Uncertainty

Parameter	Uncertainty				
Conducted emissions (AMN 150kHz~30MHz)	3.2dB				
Occupied Bandwidth	925Hz				
Radiated spurious emissions (Below 30MHz)	3.26dB				
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.70dB; Vertical: 4.42dB				
The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032.					

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.8. Description of Test Facility

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

FCC-Registration No.: 279531

Shenzhen Anbotek Compliance Laboratory Limited, 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 No. 279531.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

1.9. Disclaimer

- 1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- 2. The test report is invalid if there is any evidence and/or falsification.
- 3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- 4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
- 5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- 6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.
- 7. The data in this report will be synchronized with the corresponding national market supervision and management departments and cross-border e-commerce platforms as required by regulatory agencies.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.



2. Summary of Test Results

Standard Section	Test Item	Result
15.203	Antenna Requirement	PASS
15.207	Conducted Emission Test	N/A
15.205/15.209	Spurious Emission	PASS
15.215(c)	20dB Occupy Bandwidth	PASS

Note: N/A" denotes test is not applicable in this Test Report



3. Conducted Emission Test

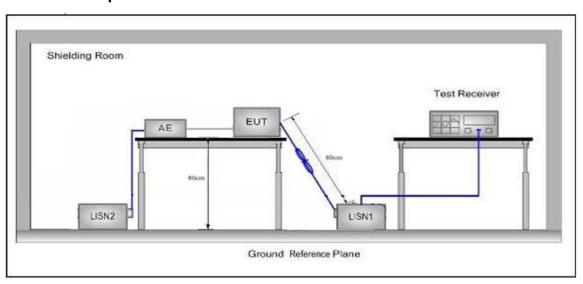
3.1. Test Standard and Limit

FCC Part15 Section 15.207			
Fraguanay	Maximum RF Line Voltage (dBuV)		
Frequency	Quasi-peak Level	Average Level	
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *	
500kHz~5MHz	56	46	
5MHz~30MHz 60		50	
	Frequency 150kHz~500kHz 500kHz~5MHz	Frequency Maximum RF Li Quasi-peak Level 66 ~ 56 * 500kHz~5MHz 56	

Remark: (1) *Decreasing linearly with logarithm of the frequency.

(2) The lower limit shall apply at the transition frequency.

3.2. Test Setup



3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10-2020 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

Not applicable.

This is a Car device, which is intended to be installed on a vehicle only, not connect to the public utility under normal use.15.207 test is exempted.

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4. Radiation Spurious Emission

4.1. Test Standard and Limit

Test Standard FCC Part15 C Section 15.209 and 15.205						
	Frequency	Field strength	Limit	Remark	Measurement	
	(MHz)	(microvolt/meter)	(dBuV/m)	Remark	distance (m)	
	0.009MHz~0.490MHz	2400/F(kHz)	-	-	300	
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30	
	1.705MHz-30MHz	30	-	-	30	
Test Limit	30MHz~88MHz	100	40.0	Quasi-peak	3	
	88MHz~216MHz	150	43.5	Quasi-peak	3	
	216MHz~960MHz	200	46.0	Quasi-peak	3	
	960MHz~1000MHz	500	54.0	Quasi-peak	3	
	Above 1000MHz	500	54.0	Average	3	
	Above 1000IVIHZ	-	74.0	Peak	3	

Remark:

- (1) The lower limit shall apply at the transition frequency.
- (2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

4.2. Test Setup

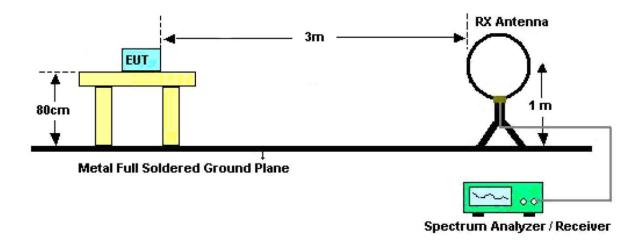


Figure 1. Below 30MHz



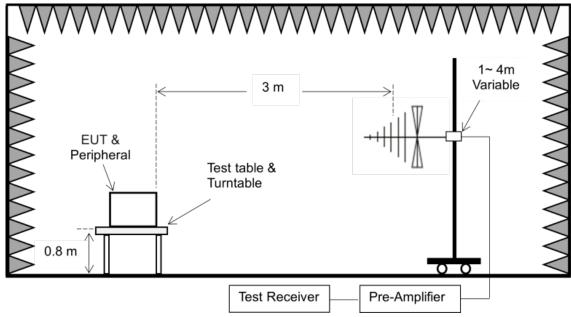


Figure 2. 30MHz to 1GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW =1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9kHz, VBW =30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW =300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

4.4. Test Data

PASS

During the test, pre-scan all modes, only the worst case is recorded in the report.

During the test, Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis is the worst case.

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Test Results (Between 9kHz - 150kHz)

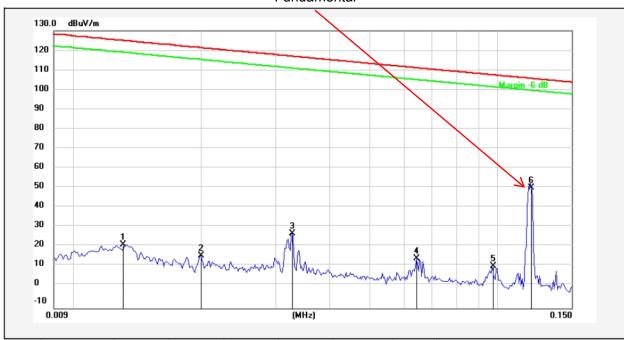
Test Mode: Mode 1

Distance: 3m

Power Source: DC 12V

Temp.(°C)/Hum.(%RH): 25.1°C/49%RH

Fundamental



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	(dBuV/m)	Limit (dBuV/m)	(dB)	Detector	Remark
1	0.0131	1.74	20.16	21.90	125.07	-103.17	AVG	
2	0.0200	-3.78	20.29	16.51	121.41	-104.90	AVG	
3	0.0328	7.21	20.56	27.77	117.14	-89.37	AVG	
4	0.0645	-5.33	20.38	15.05	111.30	-96.25	QP	
5	0.0973	-9.17	20.29	11.12	107.76	-96.64	QP	
6	0.1200	30.29	20.34	50.63	105.95	-55.32	QP	

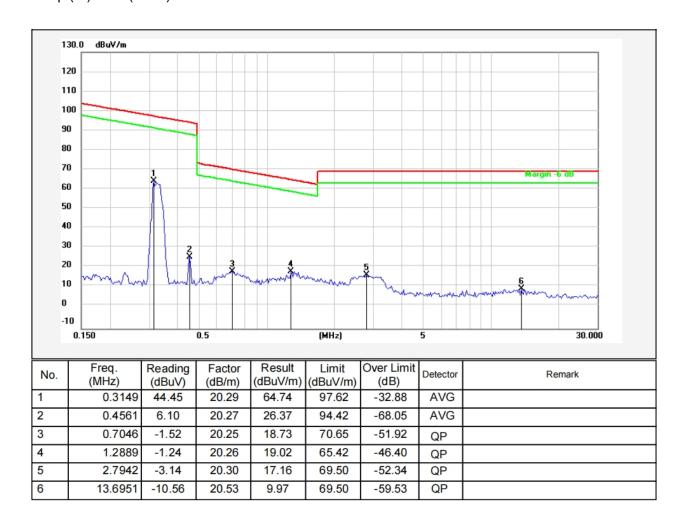


Test Results (Between 0.15MHz - 30MHz)

Test Mode: Mode 1
Distance: 3m

Power Source: DC 12V

Temp.(°C)/Hum.(%RH): 25.1°C/49%RH



Remark: According to FCC PART 15.209 (d), the emission limits for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, Radiated emission limits in these three bands are based on measurements employing an average detector.

Code:AB-RF-05-b

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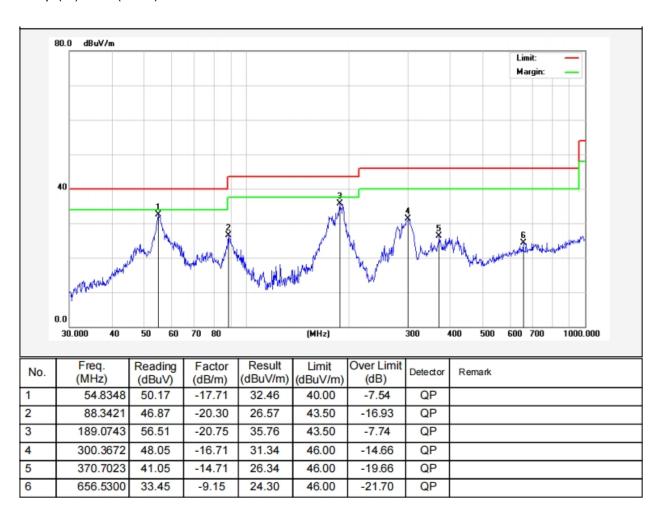
Test Results (Between 30MHz -1000 MHz)

Test Mode: Mode 1 Distance: 3m

Power Source: DC 5V from adapter input AC 120V/60Hz

Polarization: Horizontal

Temp.(°C)/Hum.(%RH): 22.5°C/55%RH



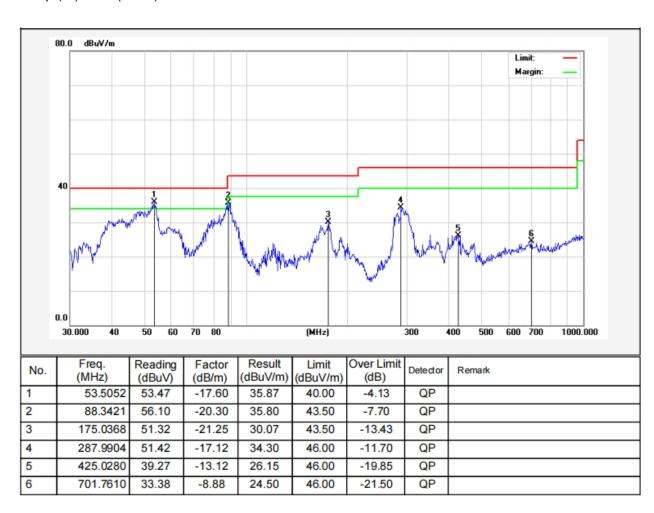


Test Mode: Mode 1
Distance: 3m

Power Source: DC 5V from adapter input AC 120V/60Hz

Polarization: Horizontal

Temp.(°C)/Hum.(%RH): 22.5°C/55%RH

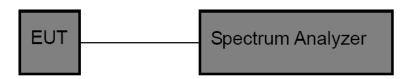


5. 20dB Occupy Bandwidth Test

5.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.215(c)
Test Limit	Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

5.2. Test Setup



5.3. Test Procedure

The bandwidth of the fundamental frequency was measured by spectrum analyzer with RBW=1%-5%OBW, VBW≥3*RBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

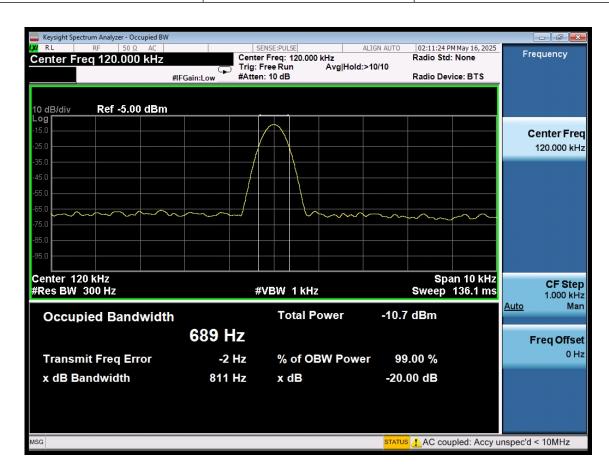
5.4. Test Data

T	05.7.00	I I	FC 0/	Atas a sala sai a Das a sausa	404 l-D-
Temperature:	25.7 °C	Humidity:	56 %	Atmospheric Pressure:	101 kPa

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Freq. (MHz)	Bandwidth (kHz)	Results
0.120	0.811	PASS



Note: The measured signal is Cw-like, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 300 Hz to perform the occupied bandwidth test.

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6. Antenna Requirement

6.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203
	1) 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
Requirement	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.

6.2. Antenna Connected Construction

The antenna is a Inductive loop coil Antenna which permanently attached. It complies with the standard requirement.

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APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_RF

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

 End of Report	
 End of Report	

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