



Fangguang Inspection & Testing Co., Ltd.

Phone: +86-510-68790033

Web: www.fgtest.cn



DFS MEASUREMENT REPORT

FCC PART 15 Subpart E

Report No.: S202307034506E14

Issue Date: 01-10-2024

Applicant: BDStar Intelligent & Connected Vehicle Technology Co.,Ltd.
Address: No. 2, Building 81, Tonggui Avenue, Yufengshan Town, Yubei District, Chongqing P.R. China
FCC ID: 2BAQL-CFDLMMI001
Product: Motorcycle Media Players
Model No.: CFDLMMI001
FCC Rule Part(s): Part 15 Subpart E - 15.407 Section (h)(2)
Test Procedure(s): KDB 905462 D02v02, KDB 905462 D04v01
Type of Device: Slave Device
Item Receipt date: Jul 05, 2023
Test Date: Jul 25, 2023

Compiled By

(Amos Xia)
Senior Test Engineer

Approved By

(Line Chen)
Engineer Manager

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 KDB 905462 D02v02. 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 Fangguang Inspection & Testing Co., Ltd. Wuxi Branch.

The test report must not be used by the client to claim product certifications, approval, or endorsement by NVLAP, NIST or any agency of U.S. Government.



Revision History

Report No.	Version	Description	Issue Date
S202307034506E14	Rev. 01	/	01-10-2024

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§2.1033 General Information

Applicant:	BDStar Intelligent & Connected Vehicle Technology Co.,Ltd.
Applicant Address:	No. 2, Building 81, Tonggui Avenue, Yufengshan Town, Yubei District, Chongqing P.R. China
Manufacturer:	BDStar Intelligent & Connected Vehicle Technology Co.,Ltd.
Manufacturer Address:	No. 2, Building 81, Tonggui Avenue, Yufengshan Town, Yubei District, Chongqing P.R. China
Factory:	JiangSu BDStar Navigation Automotive Electronic Co., Ltd.
Factory Address:	No. 1, Emeishan Road, Suyu Economic Development Zone, Suqian City Jiangsu Province, P.R.China
Test Site:	Fangguang Inspection & Testing Co., Ltd.
LAB ID:	CN5037
Test Site Address:	G9 Building, China Sensor Network International Innovation Park No.200, Linghu Avenue Wuxi, Jiangsu 214000 China
Test Device Serial No.:	N/A <input type="checkbox"/> Production <input checked="" type="checkbox"/> Pre-Production <input type="checkbox"/> Engineering
FCC Classification:	Unlicensed National Information Infrastructure (UNII)

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 Innovation, Science and Economic Development Canada.

1.2. Fangguang Test Location

These measurement tests were performed at the Fangguang Inspection and testing Co.,LTD located at 200 Linghu Avenue, Xinwu District, Wuxi City. The detailed description of the measurement facility was found to be in compliance with the requirements of ANSI C63.4-2014.

2. PRODUCT INFORMATION

2.1. Equipment Description

Product Name:	Motorcycle Media Players																																																														
Model No.:	CFDLMMI001																																																														
Additional Model:	CFDLMMI001,CFDLMMI002,CFDLMMI003,CFDLMMI004,CFDLMMI005,CFDLMMI006,CFDLMMI007																																																														
Model Description:	They are have the same technical construction including circuit diagram, PCB LAYOUT, hardware version and software version identical. the difference refer the below table.																																																														
	<table border="1"> <thead> <tr> <th>Model</th><th>Size</th><th>RG440: Wifi+BT</th><th>BE470:BT</th><th>FM/AM</th><th>GP S</th><th>USB</th></tr> </thead> <tbody> <tr> <td>CFDLMMI001</td><td>12.3 “</td><td>√</td><td>√</td><td>√</td><td>√</td><td>√</td></tr> <tr> <td>CFDLMMI002</td><td>12.3 “</td><td>√</td><td>√</td><td>×</td><td>√</td><td>√</td></tr> <tr> <td>CFDLMMI003</td><td>12.3 “</td><td>√</td><td>√</td><td>√</td><td>×</td><td>√</td></tr> <tr> <td>CFDLMMI004</td><td>12.3 “</td><td>√</td><td>√</td><td>√</td><td>√</td><td>×</td></tr> <tr> <td>CFDLMMI005</td><td>12.3 “</td><td>√</td><td>√</td><td>×</td><td>×</td><td>√</td></tr> <tr> <td>CFDLMMI006</td><td>12.3 “</td><td>√</td><td>√</td><td>√</td><td>×</td><td>×</td></tr> <tr> <td>CFDLMMI007</td><td>12.3 “</td><td>√</td><td>√</td><td>×</td><td>√</td><td>×</td></tr> </tbody> </table>							Model	Size	RG440: Wifi+BT	BE470:BT	FM/AM	GP S	USB	CFDLMMI001	12.3 “	√	√	√	√	√	CFDLMMI002	12.3 “	√	√	×	√	√	CFDLMMI003	12.3 “	√	√	√	×	√	CFDLMMI004	12.3 “	√	√	√	√	×	CFDLMMI005	12.3 “	√	√	×	×	√	CFDLMMI006	12.3 “	√	√	√	×	×	CFDLMMI007	12.3 “	√	√	×	√	×
Model	Size	RG440: Wifi+BT	BE470:BT	FM/AM	GP S	USB																																																									
CFDLMMI001	12.3 “	√	√	√	√	√																																																									
CFDLMMI002	12.3 “	√	√	×	√	√																																																									
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CFDLMMI004	12.3 “	√	√	√	√	×																																																									
CFDLMMI005	12.3 “	√	√	×	×	√																																																									
CFDLMMI006	12.3 “	√	√	√	×	×																																																									
CFDLMMI007	12.3 “	√	√	×	√	×																																																									
Input Voltage Range:	DC 13.5V																																																														
Wi-Fi Specification:	802.11a/n-HT20/n-HT40/ac-VHT20/ac-VHT40/ac-VHT80																																																														

2.2. DFS Band Carrier Frequencies Operation

802.11a/n-HT20/ac-VHT20

Channel	Frequency	Channel	Frequency	Channel	Frequency
52	5260 MHz	56	5280 MHz	60	5300 MHz
64	5320 MHz	100	5500 MHz	104	5520 MHz
108	5540 MHz	112	5560 MHz	116	5580 MHz
120	5600 MHz	124	5620 MHz	128	5640 MHz
132	5660 MHz	136	5680 MHz	140	5700 MHz
--	--	--	--	--	--

802.11n-HT40/ac-VHT40

Channel	Frequency	Channel	Frequency	Channel	Frequency
54	5270 MHz	62	5310 MHz	102	5510 MHz
110	5550 MHz	118	5590 MHz	126	5630 MHz
134	5670 MHz	--	--	--	--

802.11ac-VHT80

Channel	Frequency	Channel	Frequency	Channel	Frequency
58	5290 MHz	106	5530 MHz	122	5610 MHz
--	--	--	--	--	--

2.3. Test Mode

Test Mode	Mode 1: Communication with Notebook
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2.4. ANTENNA REQUIREMENTS

The EUT has one antennas. The antennas are PCB Antennas.

The max gain of 5G antenna is 3.8dBi. which accordance 15.203. is considered sufficient to comply with the provisions of this section

- The antenna of the **WIFI Range Extender** uses a unique connector.

Antenna Type	Antenna Connector Type
PCB Antenna	IPEX connector

3. DFS DETECTION THRESHOLDS AND RADAR TEST WAVEFORMS

3.1. Applicability

The following table from FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 lists the applicable requirements for the DFS testing.

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 3-1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode	
	Master Device or Client With Radar Detection	Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required

Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required
Note: Frequencies selected for statistical performance check should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.		

Table 3-2: Applicability of DFS Requirements during normal operation

3.2. DFS Devices Requirements

Per FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 the following are the requirements for Client Devices:

- a) The Master Device will use DFS in order to detect Radar Waveforms with received signal strength above the DFS Detection Threshold in the 5250 ~ 5350 MHz and 5470 ~ 5725 MHz bands. DFS is not required in the 5150 ~ 5250 MHz or 5725 ~ 5825 MHz bands.
- b) Before initiating a network on a Channel, the Master Device will perform a Channel Availability Check for a specified time duration (Channel Availability Check Time) to ensure that there is no radar system operating on the Channel, using DFS described under subsection a) above.
- c) The Master Device initiates a U-NII network by transmitting control signals that will enable other U-NII devices to Associate with the Master Device.
- d) During normal operation, the Master Device will monitor the Channel (In-Service Monitoring) to ensure that there is no radar system operating on the Channel, using DFS described under a).
- e) If the Master Device has detected a Radar Waveform during In-Service Monitoring as described under d), the Operating Channel of the U-NII network is no longer an Available Channel. The Master Device will instruct all associated Client Device(s) to stop transmitting on this Channel within the Channel Move Time. The transmissions during the Channel Move Time will be limited to the Channel Closing Transmission Time.
- f) Once the Master Device has detected a Radar Waveform it will not utilize the Channel for the duration of the Non-Occupancy Period.
- g) If the Master Device delegates the In-Service Monitoring to a Client Device, then the combination will be tested to the requirements described under d) through f) above.

Channel Move Time and Channel Closing Transmission Time requirements are listed in the following table.

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with

Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

Table 3-3: DFS Response Requirements

3.3. DFS Detection Threshold Values

The DFS detection thresholds are defined for Master devices and Client Devices with In-service monitoring. These detection thresholds are listed in the following table.

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP \geq 200 milliwatt	-64 dBm
EIRP $<$ 200 milliwatt and power spectral density $<$ 10 dBm/MHz	-62 dBm
EIRP $<$ 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.

Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

Note 3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

Table 3-4: Detection Thresholds for Master Devices and Client Devices with Radar Detection

3.4. Parameters of DFS Test Signals

This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 3-6	Roundup $\left\lceil \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\rceil$	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					

Table 3-5: Parameters for Short Pulse Radar Waveforms

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms.

Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (Microseconds)
1	1930.5	518
2	1858.7	538
3	1792.1	558
4	1730.1	578
5	1672.2	598
6	1618.1	618
7	1567.4	638
8	1519.8	658
9	1474.9	678
10	1432.7	698
11	1392.8	718
12	1355	738
13	1319.3	758
14	1285.3	778
15	1253.1	798
16	1222.5	818
17	1193.3	838
18	1165.6	858
19	1139	878
20	1113.6	898
21	1089.3	918
22	1066.1	938
23	326.2	3066

Table 3-6: Pulse Repetition Intervals Values for Test A

Long Pulse Radar Test Waveform

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50 - 100	5 - 20	1000 - 2000	1 - 3	8 - 20	80%	30

Table 3-7: Parameters for Long Pulse Radar Waveforms

The parameters for this waveform are randomly chosen. Thirty unique waveforms are required for the Long Pulse Radar Type waveforms. If more than 30 waveforms are used for the Long Pulse Radar Type waveforms, then each additional waveform must also be unique and not repeated from the previous waveforms.

Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses Per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30

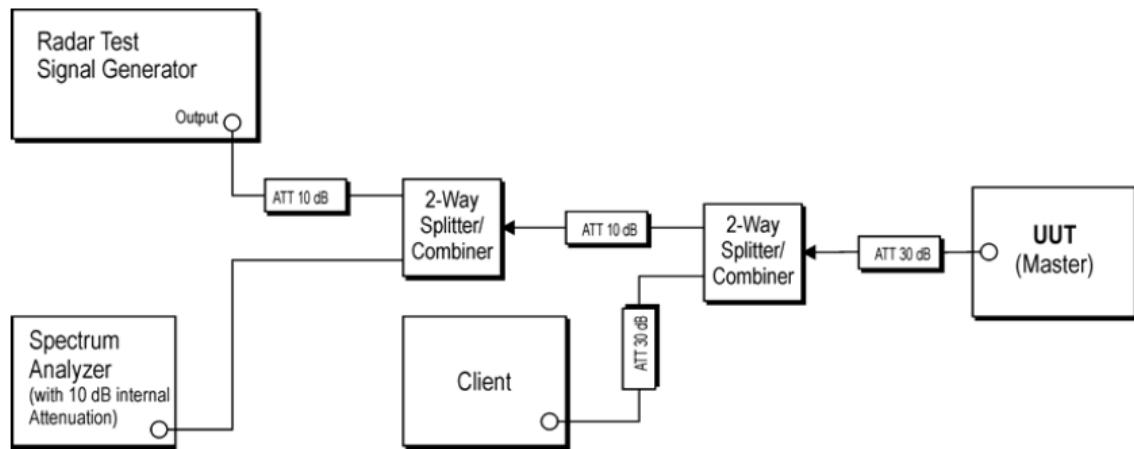
Table 3-8: Parameters for Frequency Hopping Radar Waveforms

For the Frequency Hopping Radar Type, the same Burst parameters are used for each waveform. The hopping sequence is different for each waveform and a 100-length segment is selected from the hopping sequence defined by the following algorithm:

The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250 – 5724MHz. Next, the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues until all 475 frequencies are chosen for the set. For selection of a random frequency, the frequencies remaining within the group are always treated as equally likely.

3.5. Conducted Test Setup

The FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v01 describes a radiated test setup and a conducted test setup. The conducted test setup was used for this testing. Figure 3-1 shows the typical test setup.



4. TEST EQUIPMENT CALIBRATION DATE

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EXA Signal Analyzer	Keysight	N9010B	FWXGJC-2018-010	1 year	2024/03/13
RF Control Unit	Toncend	JS0806-2	FWXGJC-2018-013	1 year	2024/05/14
Signal Generator	Keysight	N5182B	FWXGJC-2018-011	1 year	2024/03/13
Signal Generator	Keysight	N5171B	FWXGJC-2018-012	1 year	2024/03/13
Thermohygrometer	Yuhuaze	HTC-1	FWXDA-2016-385	1 year	2024/03/21

Test Software	Manufacturer	Version	Asset No.	Function
RF Test Software	Tonscend	3.3.10	/	/

5. TEST RESULT

5.1. Summary

Band	Parameter	Condition	Limit	Result
U-NII Band 2A/2C	Channel Move Time	Conducted	10 Seconds	Pass
	Channel Closing Transmission Time		200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period.	

Note: Test modes for DFS testing used according to KDB 905462 D02 v02.

5.2. Radar Waveform Calibration

5.2.1. Calibration Setup

The conducted test setup was used for this calibration testing. Figure 3-2 shows the typical test setup.

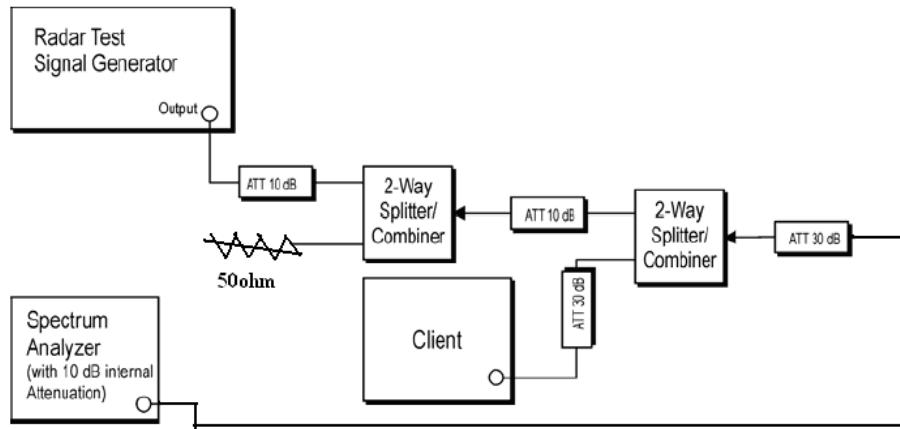


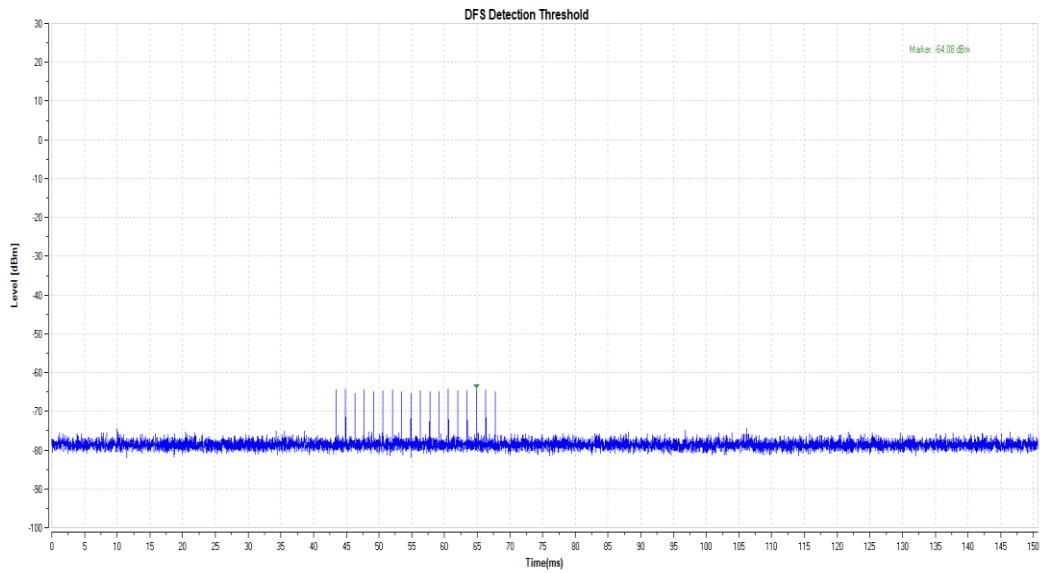
Figure 3-2: Conducted Test Setup

5.2.2. Calibration Procedure

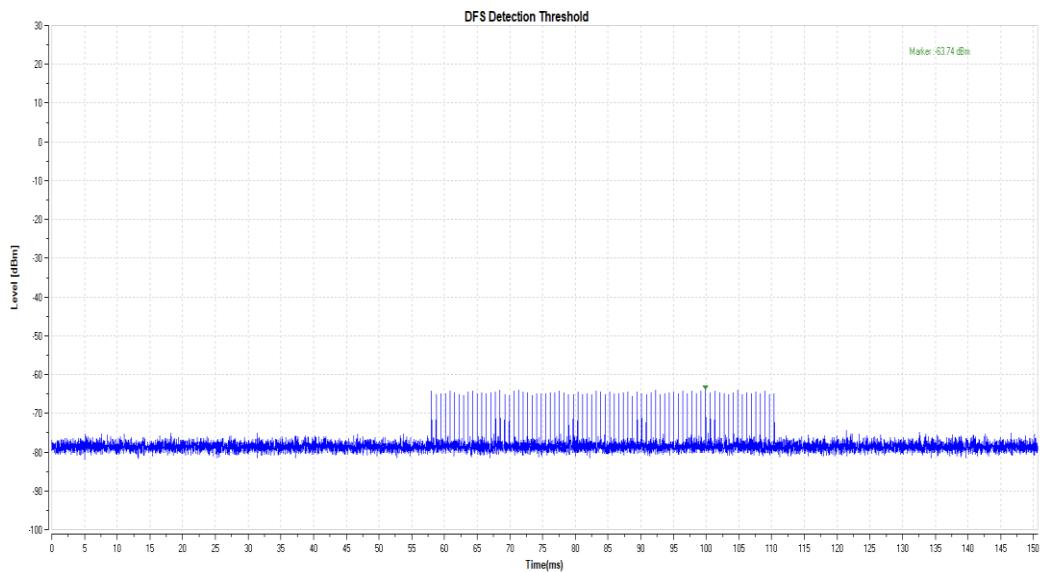
The Interference Radar Detection Threshold Level is $(-64\text{dBm}) + (0) [\text{dBi}] + 1 \text{ dB} = -63 \text{ dBm}$ that had been taken into account the output power range and antenna gain. The above equipment setup was used to calibrate the conducted Radar Waveform. A vector signal generator was utilized to establish the test signal level for each radar type. During this process there were replace 50ohm terminal form Master and Client device and no transmissions by either the Master or Client Device. The spectrum analyzer was switched to the zero span (Time Domain) at the frequency of the Radar Waveform generator. Peak detection was used. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to at least 3MHz. The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was $(-64\text{dBm}) + (0) [\text{dBi}] + 1 \text{ dB} = -63\text{dBm}$. Capture the spectrum analyzer plots on short pulse radar types, long pulse radar type and hopping radar waveform.

5.2.3.Cablibration Result

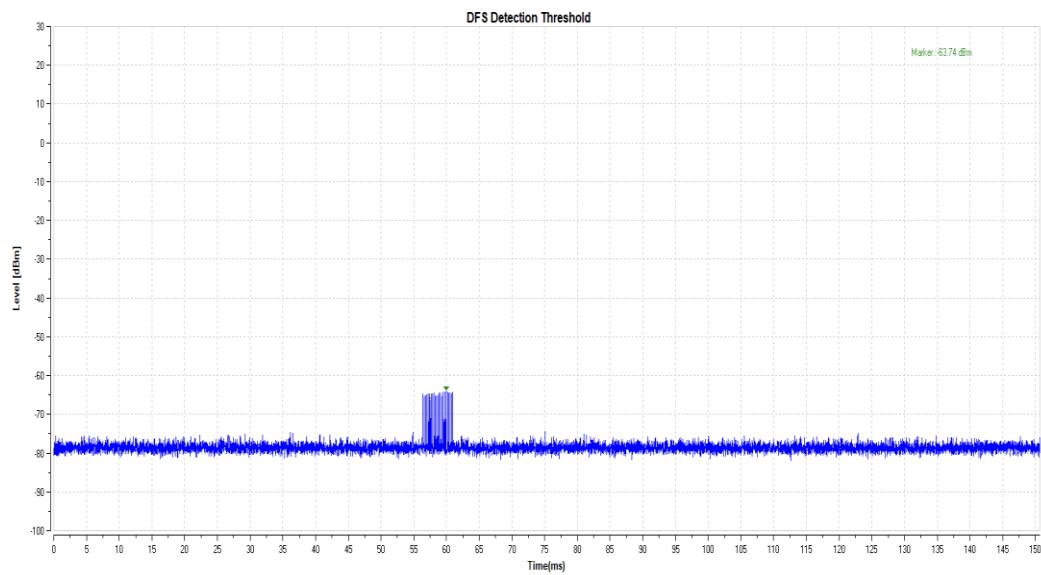
Radar #0 DFS detection threshold level and the burst of pulses on the Channel frequency



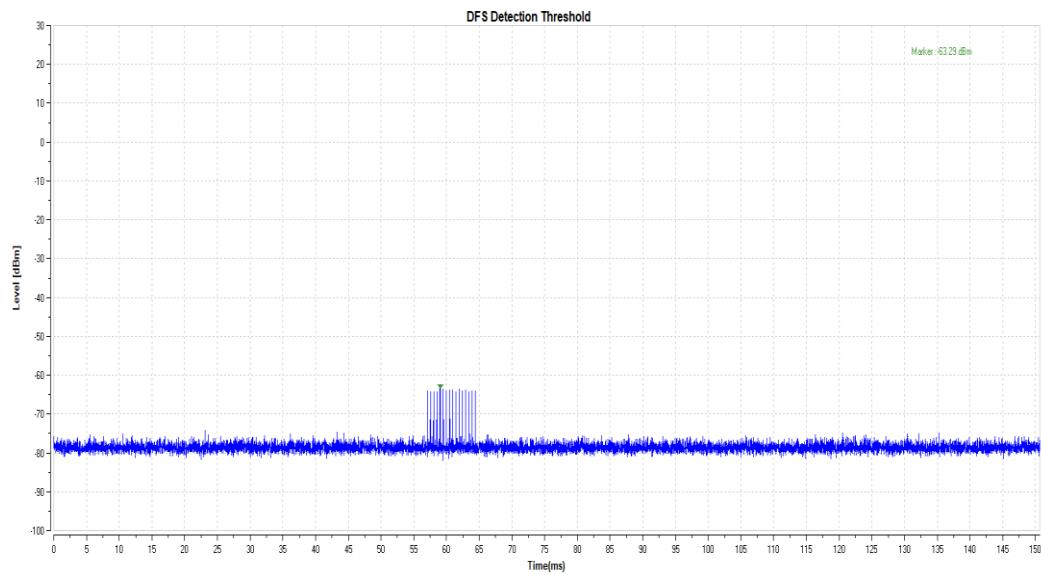
Radar #1 DFS detection threshold level and the burst of pulses on the Channel frequency



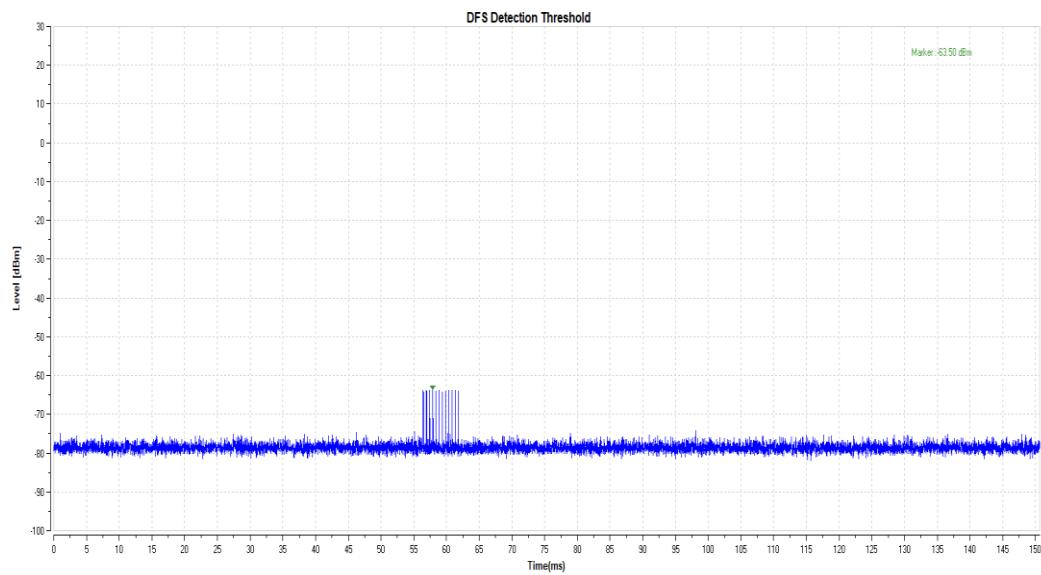
Radar #2 DFS detection threshold level and the burst of pulses on the Channel frequency



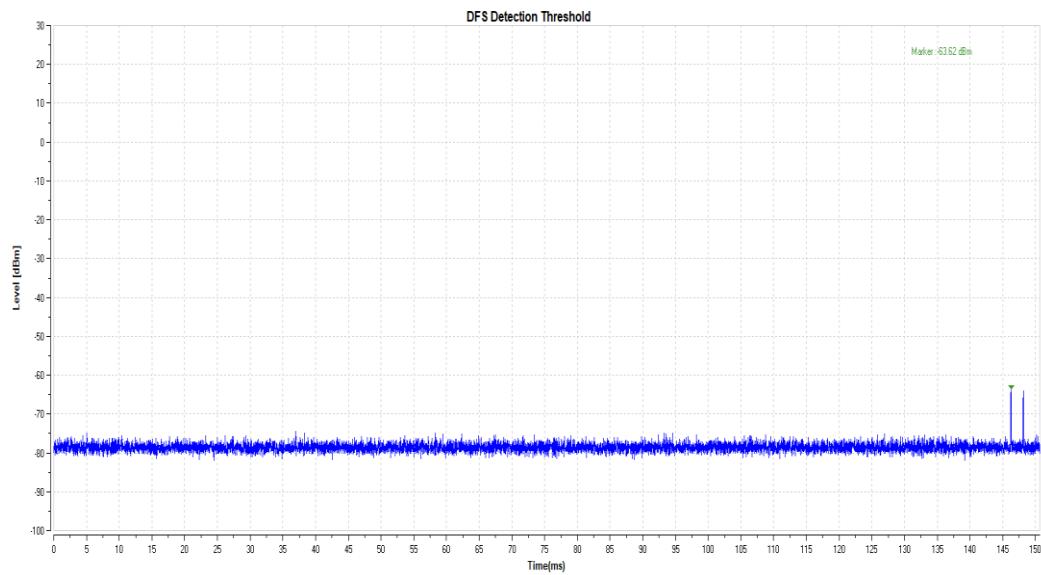
Radar #3 DFS detection threshold level and the burst of pulses on the Channel frequency



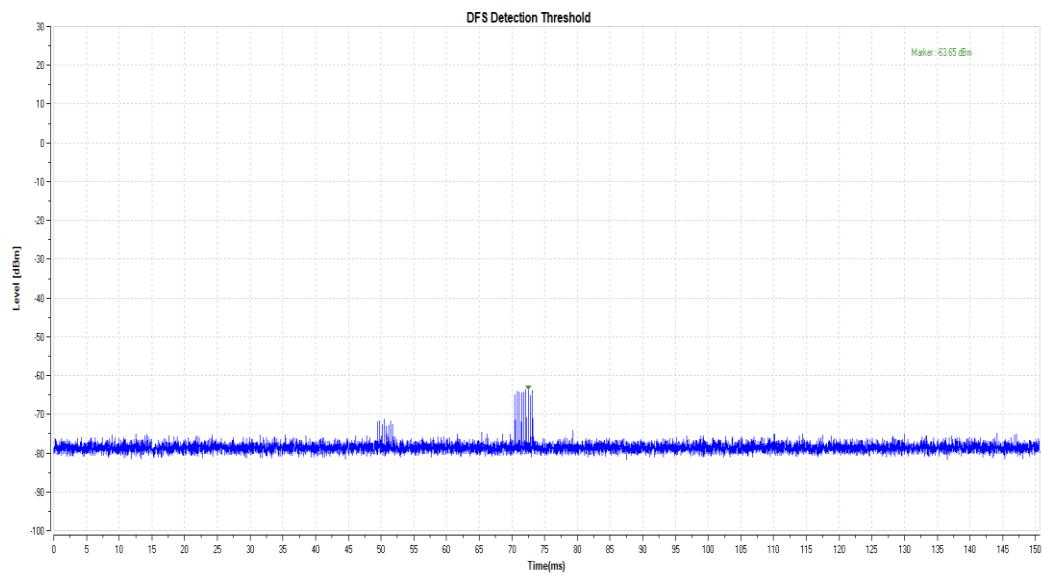
Radar #4 DFS detection threshold level and the burst of pulses on the Channel frequency



Radar #5 DFS detection threshold level and 12sec long burst on the Channel frequency

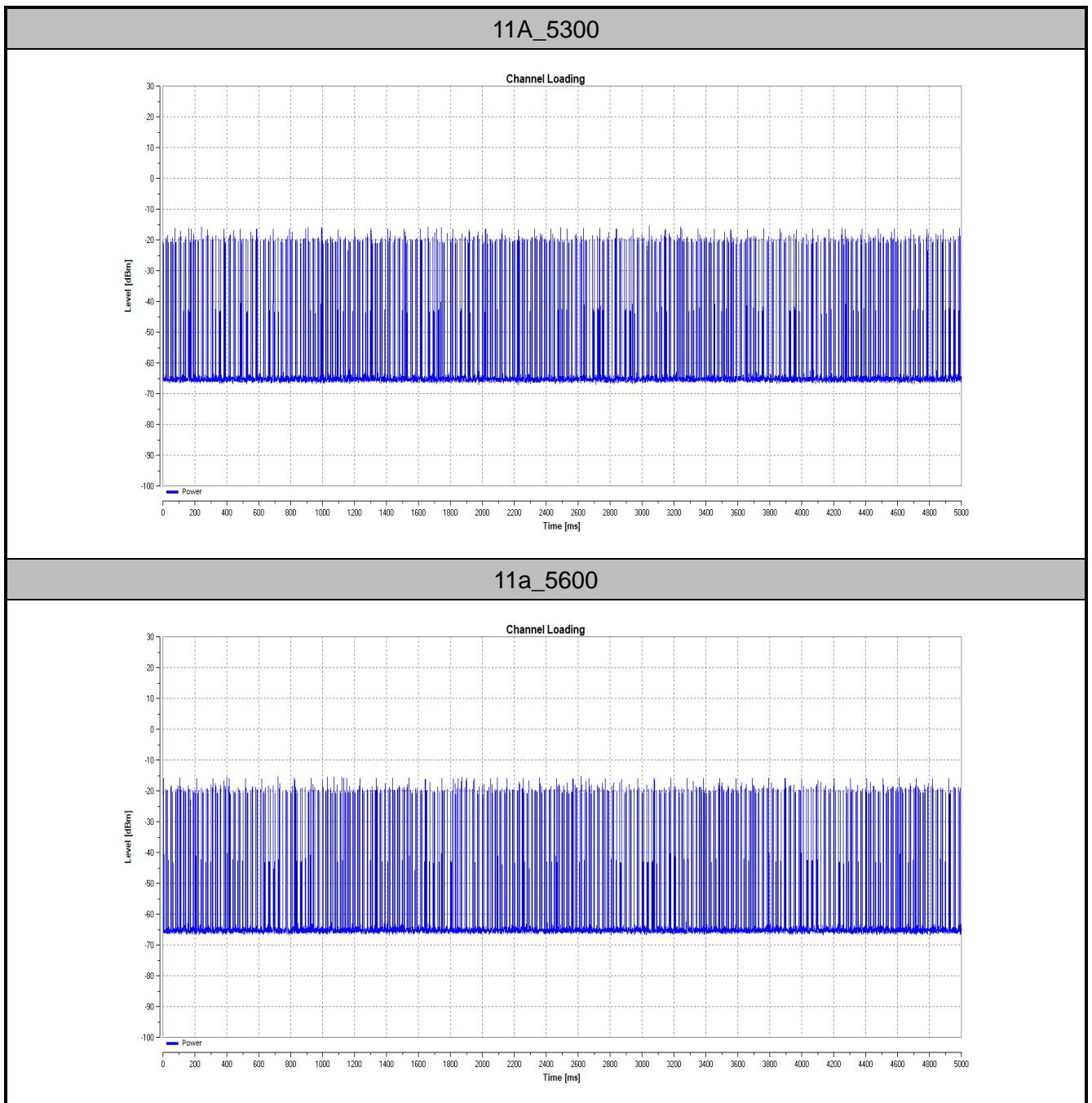


Radar #6 DFS detection threshold level and a single hop (9 pulses) on the Channel frequency within



5.2.4. Channel Loading Test Result

Test Mode	Packet ratio	Requirement ratio	Test Result
11a - 5300MHz	22.22%	>17%	Pass
11a - 5600MHz	17.25%	>17%	Pass



5.3. Channel Move Time, Channel Closing Transmission Time Measurement

5.3.1. Test Limit

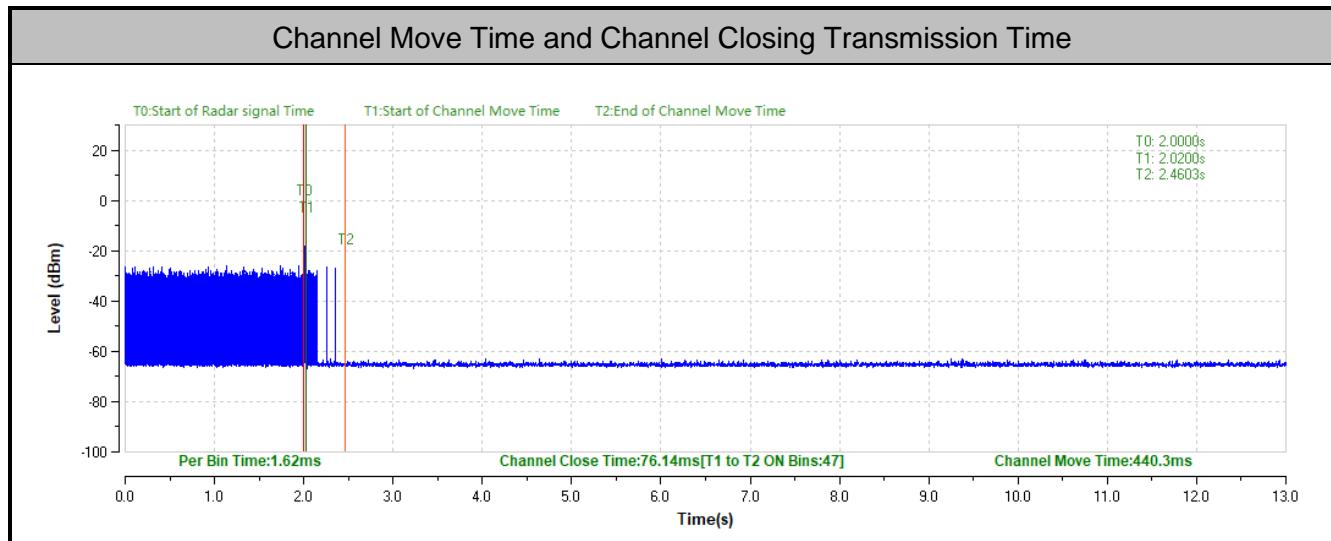
The Channel Move Time to cease all transmissions on the current channel upon detection of a Radar Waveform above the DFS Detection Threshold within 10 sec. The total duration of Channel Closing Transmission Time is 260ms, consisting of data signals and the aggregate of control signals, by a U-NII device during the Channel Move Time.

5.3.2. Test Procedure Used

1. The test should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0.
2. When the radar burst with a level equal to the DFS Detection Threshold + 1dB is generated on the Operating Channel of the U-NII device. A U-NII device operating as a Master Device will associate with the Client Device at Channel. Stream the MPEG test file from the Master Device to the Client Device on the selected Channel for the entire period of the test. At time T0 the Radar Waveform generator sends a Burst of pulses for each of the radar types at Detection Threshold + 1dB.
3. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the EUT during the observation time (Channel Move Time).
4. Measurement of the aggregate duration of the Channel Closing Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by:
$$\text{Dwell (1.5ms)} = S (12 \text{ sec}) / B (8000)$$
where Dwell is the dwell time per spectrum analyzer sampling bin, S is the sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: 80MHz:
$$C = N \times \text{Dwell}$$
where C is the Closing Time, N is the number of spectrum analyzer sampling bins showing a U-NII transmission and Dwell is the dwell time per bin.
5. Measure the UUT for more than 30 minutes following the channel close/move time to verify that the UUT does not resume any transmissions on this Channel.

5.3.3. Test Result

Test Engineer	Amos Xia	Temperature	25°C
Test Date	2023-07-25	Relative Humidity	54%
Remark	Channel Move Time and Channel Closing Transmission Time (802.11a-5300MHz)		



Parameter	Test Result	Limit
	Type 0	
Channel Move Time (s)	440.3ms	<10s
Channel Closing Transmission Time (ms) (Note)	76.1ms	<260ms

Note: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 seconds period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Test Engineer	Amos Xia	Temperature	25°C
Test Date	2023-07-25	Relative Humidity	54%
Remark	Channel Move Time and Channel Closing Transmission Time (802.11a-5600MHz)		



Parameter	Test Result	Limit
	Type 0	
Channel Move Time (s)	184.7ms	<10s
Channel Closing Transmission Time (ms) (Note)	1.6ms	<260ms
<p>Note: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 seconds period. The aggregate duration of control signals will not count quiet periods in between transmissions.</p>		

6. CONCLUSION

The data collected relate only the item(s) tested and show that the **Motorcycle Media Players** is in compliance with Part 15E of the FCC Rules.

The End
