

# TEST REPORT

**Product Name** : Pos Terminal  
**Model Number** : M1, M1s, M1B, M1K  
**FCC ID** : 2AJ2B-M1

**Prepared for** : Telepower Communication Co., Ltd.  
**Address** : 5 Bld, Zone A, Hantian Technology Town No.17 ShenHai  
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**Prepared by** : EMTEK (SHENZHEN) CO., LTD.  
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**Report Number** : ENS2204150045W00206R  
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**1. TEST RESULT CERTIFICATION**

Applicant : Telepower Communication Co., Ltd.

Address : 5 Bld, Zone A, Hantian Technology Town No.17 ShenHai RD, Nanhai District, Foshan, China

Manufacturer : Telepower Communication Co., Ltd.

Address : 5 Bld, Zone A, Hantian Technology Town No.17 ShenHai RD, Nanhai District, Foshan, China

EUT : Pos Terminal

Model Name : M1, M1s, M1B, M1K  
(Note: all models are different for color and silk screen, the others are the same.)

Trademark : **Telpo**

**Measurement Procedure Used:**

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC 47 CFR Part 15, Subpart E	PASS

The above equipment was tested by EMTEK (SHENZHEN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the above table standards requirement.

The test results of this report relate only to the tested sample identified in this report.

## Modified Information

Version	Report No.	Revision Date	Summary
Ver.1.0	ENS2204150045W00206R	/	Original Report



## 2. EUT DESCRIPTION

Characteristics	Description	
Product	Pos Terminal	
Model Number	M1, M1s, M1B, M1K (Note: all models are different for color and silk screen, the others are the same.)	
Wifi Type	<input checked="" type="checkbox"/> UNII-1: 5150MHz-5250MHz Band <input checked="" type="checkbox"/> UNII-2A: with 5250MHz-5350MHz Band <input checked="" type="checkbox"/> UNII-2C: with 5470MHz-5725MHz Band <input checked="" type="checkbox"/> UNII-3 with 5725MHz-5850MHz Band	
WLAN Supported	<input checked="" type="checkbox"/> 802.11a <input checked="" type="checkbox"/> 802.11n(20MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11n(40MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11ac(20MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11ac(40MHz channel bandwidth) <input checked="" type="checkbox"/> 802.11ac(80MHz channel bandwidth)	
Data Rate	802.11a:54/48/36/24/18/12/9/6Mbps 802.11n:up to 600 Mbps 802.11ac:up to 1.733Gbps	
Modulation	<input checked="" type="checkbox"/> OFDM with BPSK/QPSK/16QAM/64QAM for 802.11a/n <input checked="" type="checkbox"/> OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11ac	
Frequency Range	<input checked="" type="checkbox"/> UNII-1: 5150MHz-5250MHz Band	
	<input checked="" type="checkbox"/> 5180-5240MHz for 802.11a	<input checked="" type="checkbox"/> 5190-5230MHz for 802.11n(HT40)
	<input checked="" type="checkbox"/> 5180-5240MHz for 802.11n(HT20)	<input checked="" type="checkbox"/> 5190-5230MHz for 802.11ac(HT40)
	<input checked="" type="checkbox"/> 5180-5240MHz for 802.11ac(HT20)	<input checked="" type="checkbox"/> 5210MHz for 802.11ac(HT80)
	<input checked="" type="checkbox"/> UNII-2A: with 5250MHz-5350MHz Band	
	<input checked="" type="checkbox"/> 5260-5320MHz for 802.11a	<input checked="" type="checkbox"/> 5270-5310MHz for 802.11n(HT40)
	<input checked="" type="checkbox"/> 5260-5320MHz for 802.11n(HT20)	<input checked="" type="checkbox"/> 5270-5310MHz for 802.11ac(HT40)
	<input checked="" type="checkbox"/> 5260-5320MHz for 802.11ac(HT20)	<input checked="" type="checkbox"/> 5290MHz for 802.11ac(HT80)
TPC Function	<input type="checkbox"/> Applicable	
	<input checked="" type="checkbox"/> Not Applicable	
Antenna Type	Integrated Antenna	
Antenna Gain	2.5dBi	
Transmit Power	Output Power (Max.) for UNII-1 (1TX)	802.11a: 15.61dBm 802.11n(HT 20 MHz): 15.45dBm 802.11n(HT 40 MHz): 16.11dBm 802.11ac (HT 20 MHz): 14.99dBm 802.11ac (HT 40 MHz): 15.36dBm 802.11ac (HT 80 MHz): 14.98dBm

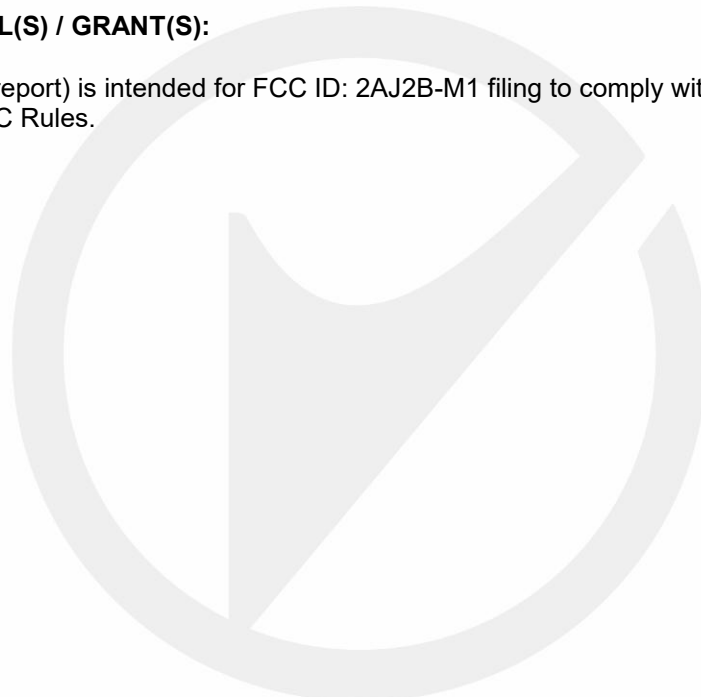
	Output Power (Max.) for UNII-2A (1TX)	802.11a: 15.33dBm 802.11n(HT 20 MHz): 15.16dBm 802.11n(HT 40 MHz): 14.39dBm 802.11ac (HT 20 MHz): 14.34dBm 802.11ac (HT 40 MHz): 14.71dBm 802.11ac (HT 80 MHz): 13.95dBm
	Output Power (Max.) for UNII-2C (1TX)	802.11a: 15.07dBm 802.11n(HT 20 MHz): 14.89dBm 802.11n(HT 40 MHz): 14.84dBm 802.11ac (HT 20 MHz): 14.09dBm 802.11ac (HT 40 MHz): 14.61dBm 802.11ac (HT 80 MHz): 14.30dBm
	Output Power (Max.) for UNII-3 (1TX)	802.11a: 15.72dBm 802.11n(HT 20 MHz): 15.55dBm 802.11n(HT 40 MHz): 15.10dBm 802.11ac (HT 20 MHz): 14.87dBm 802.11ac (HT 40 MHz): 15.17dBm 802.11ac (HT 80 MHz): 15.00dBm
<b>Power Supply</b>	7.6V/2500mAH,Li-ion(Non-removable) Adapter: Model: SOY-131QC3.0EU Input: 100~240V, 50/60Hz, 0.5A Output: 3.6-6.5V, 3A; 6.5-9V, 2A; 9.0-12V, 1.5A; 18W	
<b>Note1:</b> For more details, please refer to the user's manual of the EUT.		
<b>Note2:</b> The Clients confirm that the Power-On Cycle is 5 minutes.		

### 3. SUMMARY OF TEST RESULT

FCC Part Clause	IC Part Clause	Test Parameter	Remarks	Pass/Fail
15.407(h)	RSS-247 6.3	DFS Detection Threshold	N/A	N/A
		Channel Availability Check Time	N/A	N/A
		Channel Move Time	Applicable	Pass
		Channel Closing Transmission Time	Applicable	Pass
		Non- Occupancy Period	N/A	N/A
		Uniform Spreading	N/A	N/A
		U-NII Detection Bandwidth	N/A	N/A

#### RELATED SUBMITTAL(S) / GRANT(S):

This submittal(s) (test report) is intended for FCC ID: 2AJ2B-M1 filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.



#### 4. TEST METHODOLOGY

##### 4.1 GENERAL DESCRIPTION OF APPLIED STANDARDS

According to its specifications, the EUT must comply with the requirements of the following standards:

FCC 06-96

FCC 47 CFR Parts 15, Subpart E

FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

IC RSS-247 Issue 2(02-2017)

##### 4.2 MEASUREMENT EQUIPMENT USED

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Wireless Connectivity Tester	R&S	CMW270	102543	Aug. 27, 2021	1Year
UP/DOWN-Converter	R&S	CMW-Z800A	100274	Sep. 14, 2021	1Year
Signal Analyzer	KEYSIGHT	N9010B	MY60242456	Jan. 21, 2022	1Year
Analog Signal Generator	KEYSIGHT	N5173B	MY61252625	Oct. 29, 2021	1Year
Vector Signal Generator	KEYSIGHT	N5182B	MY61252674	Oct. 28, 2021	1Year
Frequency Extender	KEYSIGHT	N5182BX07	MY59362541	Nov. 23, 2021	1Year
RF Control Unit	Tonscend	JS0806-2	218060480	N/A	N/A
Temperature&Humidity Chamber	ESPEC	EL-02KA	12107166	Jul. 03, 2021	1 Year



### 4.3 DESCRIPTION OF TEST MODES

The EUT has been tested under its typical operating condition.

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

#### Wifi 5G with U-NII - 1

Frequency and Channel list for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220		
40	5200	48	5240		

Frequency and Channel list for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	46	5230		

Frequency and Channel list for 802.11ac (VHT80), 802.11ax (HE80):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	5210				

Test Frequency and Channel for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	40	5200	48	5240

Test Frequency and channel for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	N/A	N/A	46	5230

Test Frequency and channel for 802.11ac (VHT80), 802.11ax (HE80):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	5210	N/A	N/A	N/A	N/A

**Wifi 5G with U-NII -2A**

Frequency and Channel list 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	60	5300		
56	5280	64	5320		

Frequency and Channel list for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
54	5270				
62	5310				

Frequency and Channel list for 802.11ac (VHT80), 802.11ax (HE80):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
58	5290				

Test Frequency and Channel for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	56	5280	64	5320

Test Frequency and channel for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
54	5270	N/A	N/A	62	5310

Test Frequency and channel for 802.11ac (VHT80), 802.11ax (HE80):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
58	5290				

**Wifi 5G with U-NII -2C**

Frequency and Channel list for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	116	5580	132	5660
104	5520	120	5600	136	5680
108	5540	124	5620	140	5700
112	5560	128	5640		

Frequency and Channel list for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
102	5510	118	5590	134	5670
110	5550	126	5630		

Frequency and Channel list for 802.11ac (VHT80), 802.11ax (HE80):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
106	5530	122	5610		

Test Frequency and Channel for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	120	5600	140	5700

Test Frequency and channel for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
102	5510			134	5670

Test Frequency and channel for 802.11ac (VHT80), 802.11ax (HE80):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
106	5530				

**Wifi 5G with U-NII -3**

Frequency and Channel list for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	157	5785	165	5825
153	5765	161	5805		

Frequency and Channel list for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	159	5795		

Frequency and Channel list for 802.11ac (VHT80), 802.11ax (HE80):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
155	5775				

Test Frequency and Channel for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	157	5785	165	5825

Test Frequency and channel for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	N/A	N/A	159	5795

Test Frequency and channel for 802.11ac (VHT80), 802.11ax (HE80):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
155	5775				

#### 4.4 TEST SOFTWARE

Item	Software
RF conducted	ETSI Certification of Regulations Test Solution(V1.04.01)
	N7607B Signal Studio for DFS Radar Profiles



## 5. FACILITIES AND ACCREDITATIONS

### 5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

Building 69, Majialong Industry Zone District, Nanshan District, Shenzhen, China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

### 5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with preselectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

### 5.3 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

EMC Lab.

: **Accredited by CNAS**

The Certificate Registration Number is L2291

The Laboratory has been assessed and proved to be in compliance with CNAS-CL01 (identical to ISO/IEC 17025:2017)

**Accredited by FCC**

Designation Number: CN1204

Test Firm Registration Number: 882943

**Accredited by A2LA**

The Certificate Number is 4321.01

**Accredited by Industry Canada**

The Conformity Assessment Body Identifier is CN0008

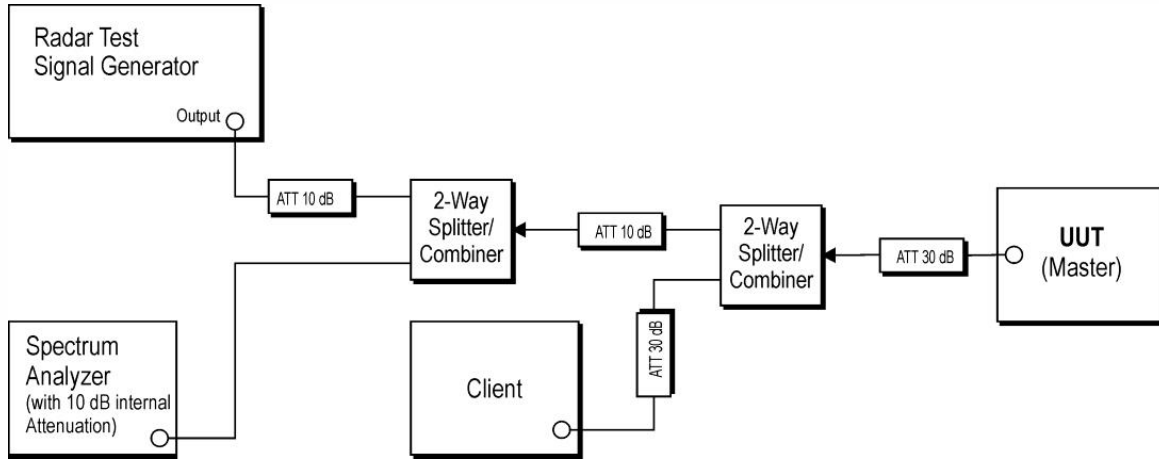
Name of Firm : EMTEK (SHENZHEN) CO., LTD.

Site Location : Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China

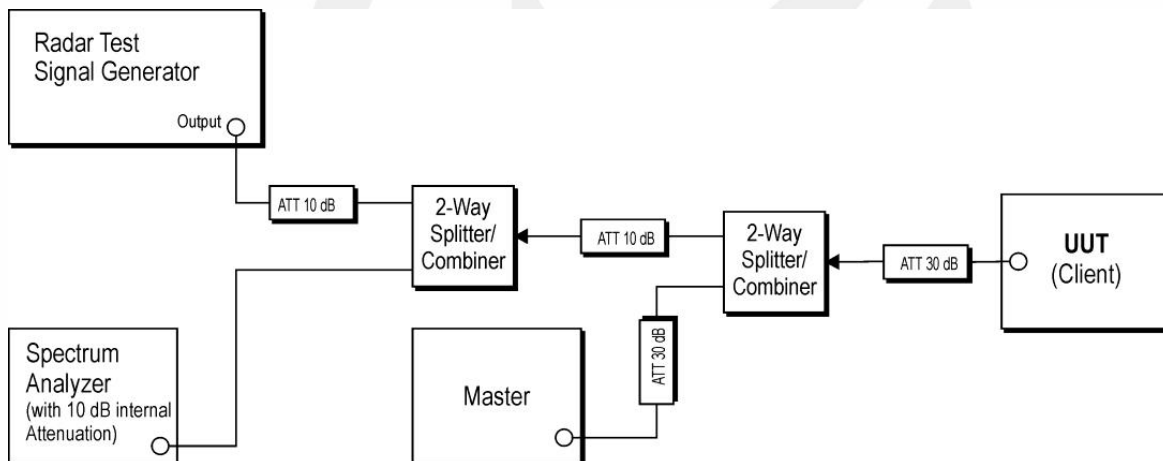
## 6. SETUP OF EQUIPMENT UNDER TEST

### 6.1 SETUP CONFIGURATION OF EUT

#### Master Modes



#### Slave Mode



### 6.2 CALIBRATION OF DFS DETECTION THRESHOLD LEVEL:

A 50 ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected in place of the master device and the signal generator is set to CW mode. The amplitude of the signal generator is adjusted to yield a level of  $-62$  dBm as measured on the spectrum analyzer. Without changing any of the instrument settings, the spectrum analyzer is reconnected to the Common port of the Spectrum Analyzer Combiner/Divider. Measure the amplitude and calculate the difference from  $-62$  dBm. Adjust the Reference Level Offset of the spectrum analyzer to this difference. The spectrum analyzer displays the level of the signal generator as received at the antenna ports of the Master Device. The interference detection threshold may be varied from the calibrated value of  $-62$  dBm and the spectrum analyzer will still indicate the level as received by the Master Device. Set the signal generator to produce a radar waveform, trigger a burst manually and measure the level on the spectrum analyzer. Readjust the amplitude of the signal generator as required so that the peak level of the waveform is at a displayed level equal to the required or desired interference detection threshold. Separate signal generator amplitude settings are determined as required for each radar type.

**6.3 SUPPORT EQUIPMENT**

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	FCC ID/IC
1.	Wireless Access Point	Cisco	AIR-CAP3702E-A-K9	FTX182276QD	FCC ID: LDK102087 IC:2461B-102087

Note: Software for transferring data between master and slave devices is TFGEN-1.00 (transmission rate >80%)

**Notes:**

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.





## 7. DYNAMIC FREQUENCY SELECTION REQUIREMENTS

### 7.1 APPLICABLE STANDARD

According to 15.407(h) and RSS-247 6.3

### 7.2 CONFORMANCE LIMIT

The dynamic frequency selection requirement

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 periods. 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.

The following table lists the DFS The detection threshold values

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.

**Note3:** EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

### 7.3 TEST CONFIGURATION

Conducted measurements shall be used for DFS test

### 7.4 TEST PARAMETERS OF DFS TEST SIGNAL

The following table lists the parameters of radar test signals

#### 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 5a	Roundup $\left\{ \begin{matrix} \left( \frac{1}{360} \right) \cdot \\ \left( \frac{19 \cdot 10^6}{PRI_{\mu sec}} \right) \end{matrix} \right\}$	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
<b>Note 1:</b> Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					

#### 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

#### 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

### 7.5 OPERATION MODES AND REQUIREMENT TEST ITEMS

The manufacture shall state whether the EUT is capable of operating as a Master or a Slave modes, if the EUT is capable of operating in more than one operational mode then every operating mode shall be assessed separately.

Applicability of DFS Requirements Prior to Use of a Channel

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
Uniform Spreading	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Applicability of DFS requirements during normal operation

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

### 7.6 TEST PROCEDURE

According to KDB 905462 D02v02 Section 7.

## 8. TEST RESULT

### 8.1 DETAILED TEST RESULTS

MODES	Test Parameter	Remark	Verdict
<input type="checkbox"/> Master	DFS Detection Threshold	N/A	N/A
	Channel Availability Check Time	N/A	N/A
	Channel Move Time	N/A	N/A
	Channel Closing Transmission Time	N/A	N/A
	Non-Occupancy Period	N/A	N/A
	Uniform Spreading	N/A	N/A
	U-NII Detection Bandwidth	N/A	N/A
<input checked="" type="checkbox"/> Slave	Radar Detection Threshold	N/A	N/A
	Channel Move Time	Applicable	PASS
	Channel Closing Transmission Time	Applicable	PASS
	Non-Occupancy Period	N/A	N/A
	U-NII Detection Bandwidth	N/A	N/A

## 8.2 RADAR WAVEFORM

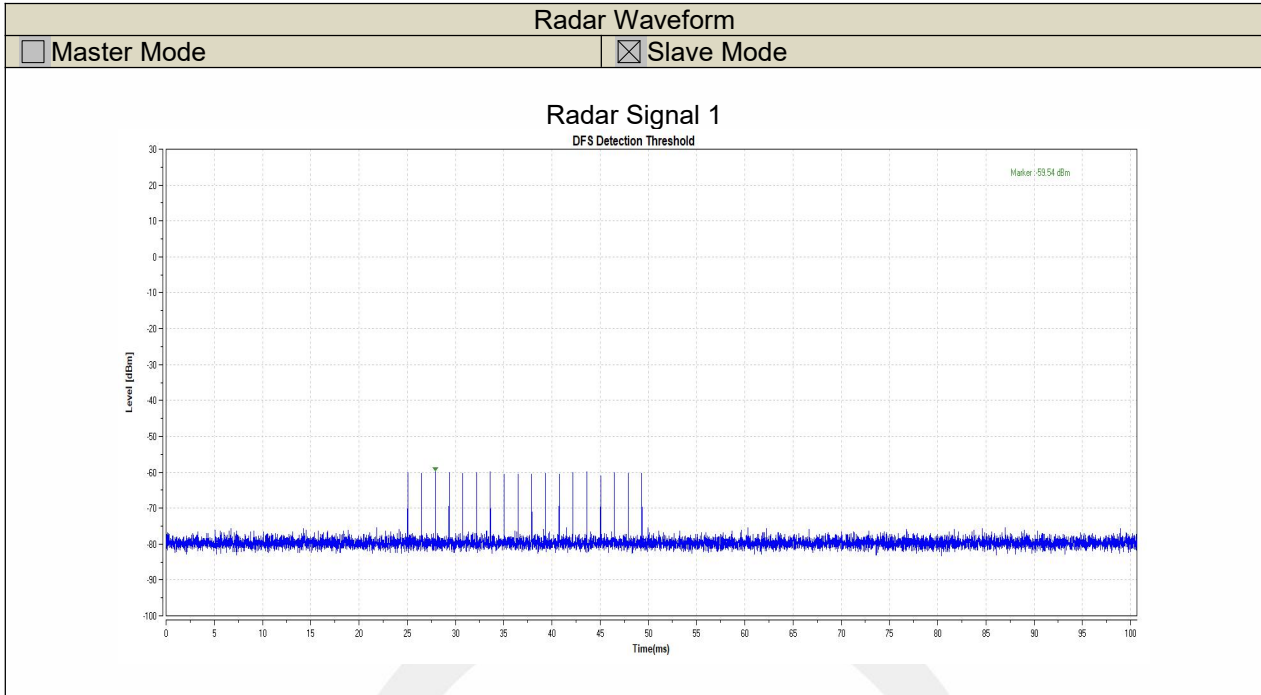
Calibration:

Maximum Transmit Power is be greater than 200 milliwatt and power spectral density <10 dBm/MHz in this report, so detection threshold level is -64dBm.

All the antenna(Antenna 1&2) and modes(802.11a/n/ac/ax) has been tested and the worst result have been recorded in the below page.

The manufacturer's statement confirming that information concerning radar waveforms is not made available to the user.





### 8.3 IN-SERVICE MONITORING

U-NII-Band II-A

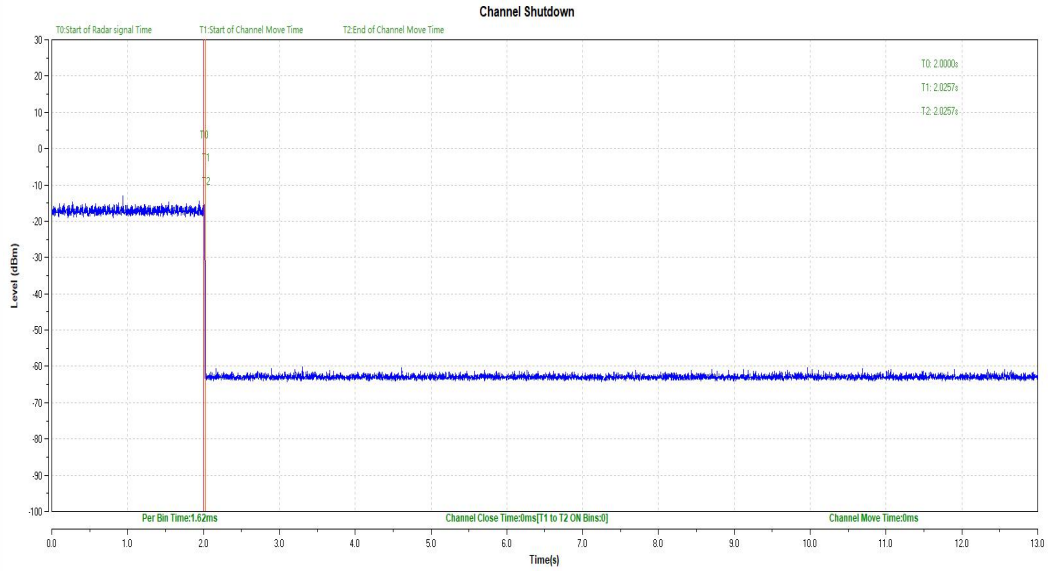
Radar test signal type 0					Detection(Y/N)
Trial ID	Pulse Width(us)	PRI(us)	Number of Pulses	Waveform Length(us)	
0	1.0	1428.0	18	25704.0	Y
1	1.0	1428.0	18	25704.0	Y
2	1.0	1428.0	18	25704.0	Y
3	1.0	1428.0	18	25704.0	Y
4	1.0	1428.0	18	25704.0	Y
5	1.0	1428.0	18	25704.0	N
6	1.0	1428.0	18	25704.0	Y
7	1.0	1428.0	18	25704.0	Y
8	1.0	1428.0	18	25704.0	Y
9	1.0	1428.0	18	25704.0	Y
10	1.0	1428.0	18	25704.0	Y
11	1.0	1428.0	18	25704.0	N
12	1.0	1428.0	18	25704.0	Y
13	1.0	1428.0	18	25704.0	Y
14	1.0	1428.0	18	25704.0	Y
15	1.0	1428.0	18	25704.0	Y
16	1.0	1428.0	18	25704.0	Y
17	1.0	1428.0	18	25704.0	Y
18	1.0	1428.0	18	25704.0	Y
19	1.0	1428.0	18	25704.0	Y
20	1.0	1428.0	18	25704.0	Y
21	1.0	1428.0	18	25704.0	Y
22	1.0	1428.0	18	25704.0	Y
23	1.0	1428.0	18	25704.0	Y
24	1.0	1428.0	18	25704.0	Y
25	1.0	1428.0	18	25704.0	N
26	1.0	1428.0	18	25704.0	Y
27	1.0	1428.0	18	25704.0	Y
28	1.0	1428.0	18	25704.0	Y
29	1.0	1428.0	18	25704.0	Y
<b>Detection Rate</b>					<b>90%</b>

U-NII-Band II-C

Radar test signal type 0					Detection(Y/N)
Trial ID	Pulse Width(us)	PRI(us)	Number of Pulses	Waveform Length(us)	
0	1.0	1428.0	18	25704.0	Y
1	1.0	1428.0	18	25704.0	Y
2	1.0	1428.0	18	25704.0	Y
3	1.0	1428.0	18	25704.0	Y
4	1.0	1428.0	18	25704.0	Y
5	1.0	1428.0	18	25704.0	Y
6	1.0	1428.0	18	25704.0	N
7	1.0	1428.0	18	25704.0	Y
8	1.0	1428.0	18	25704.0	Y
9	1.0	1428.0	18	25704.0	Y
10	1.0	1428.0	18	25704.0	Y
11	1.0	1428.0	18	25704.0	Y
12	1.0	1428.0	18	25704.0	Y
13	1.0	1428.0	18	25704.0	N
14	1.0	1428.0	18	25704.0	Y
15	1.0	1428.0	18	25704.0	Y
16	1.0	1428.0	18	25704.0	Y
17	1.0	1428.0	18	25704.0	Y
18	1.0	1428.0	18	25704.0	Y
19	1.0	1428.0	18	25704.0	Y
20	1.0	1428.0	18	25704.0	Y
21	1.0	1428.0	18	25704.0	Y
22	1.0	1428.0	18	25704.0	Y
23	1.0	1428.0	18	25704.0	Y
24	1.0	1428.0	18	25704.0	Y
25	1.0	1428.0	18	25704.0	Y
26	1.0	1428.0	18	25704.0	Y
27	1.0	1428.0	18	25704.0	Y
28	1.0	1428.0	18	25704.0	N
29	1.0	1428.0	18	25704.0	Y
<b>Detection Rate</b>					<b>90%</b>

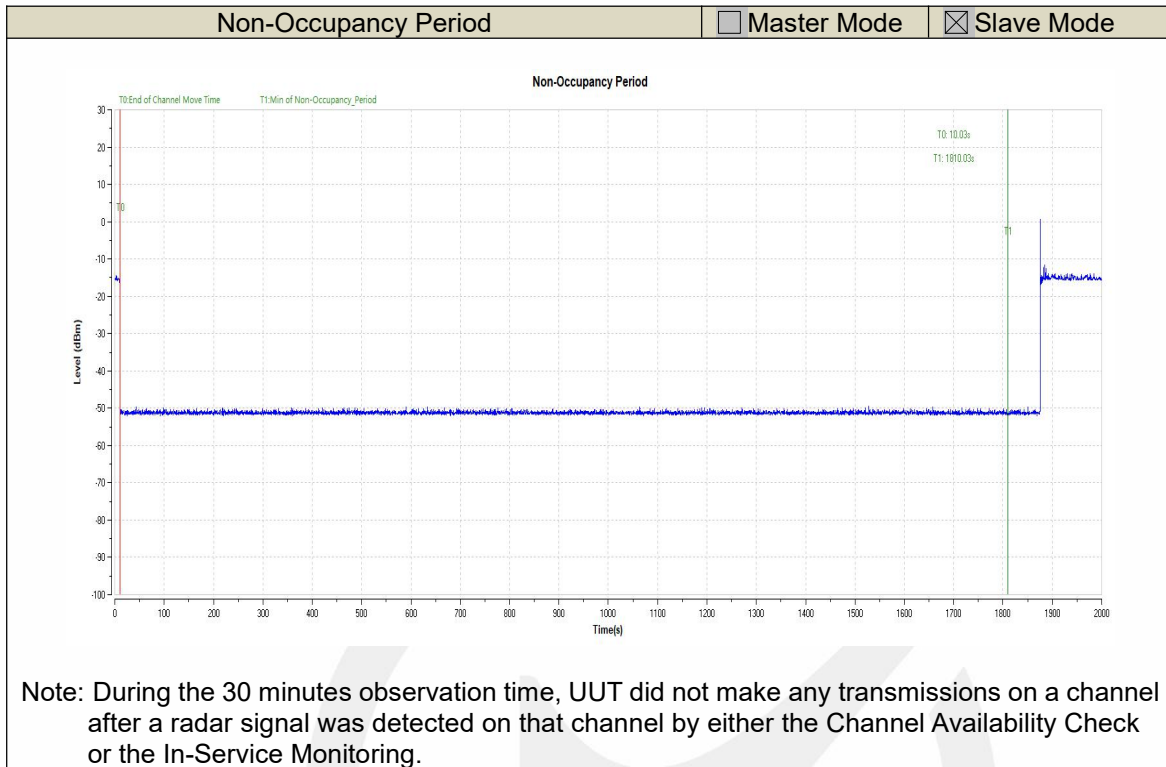


In-Service Monitoring		
Channel Move Time and Channel Closing Transmission Time	<input type="checkbox"/> Master Mode	<input checked="" type="checkbox"/> Slave Mode
Operation Frequency	5530MHz	



**Note:** T0 = Start time of Radar Burst  
 T1 = end time of Radar Burst  
 T2 = 200ms from end of Radar Burst  
 T3 = Last traffic burst from Client (Channel Move Time)

**8.4 NON-OCCUPANCY PERIOD**



--- End of Report ---