

# **TEST REPORT**

Product Name : Nio-PoE Model Number : Nio-PoE

FCC ID : 2AWLO-NIO-POE

Prepared for : Kuna Systems Corporation

Address : 1900 S Norfolk St Ste 350 San Mateo California United

**States 94403** 

Prepared by : EMTEK (SHENZHEN) CO., LTD.

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Shenzhen, Guangdong, China

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Report Number : ENS2305040038W00104R Date(s) of Tests : May 4, 2023 to June 7, 2023

Date of issue: June 7, 2023



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#### 1. TEST RESULT CERTIFICATION

Applicant : Kuna Systems Corporation

Address : 1900 S Norfolk St Ste 350 San Mateo California United States 94403

Manufacturer : Kuna Systems Corporation

Address : 1900 S Norfolk St Ste 350 San Mateo California United States 94403

EUT : Nio-PoE

Model Name : Nio-PoE

Trademark : iDter

#### Measurement Procedure Used:

APPLICABLE STANDARDS						
STANDARD	TEST RESULT					
FCC 47 CFR Part 15, Subpart E	PASS					
IC RSS-247 Issue 2(02-2017)	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 requirements of FCC Rules Part 15.407 and IC RSS-247 Issue 2.

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

Date of Test :	May 4, 2023 to June 7, 2023
Prepared by :	Luo Pei Ye
	Luo peiye /Editor
	Tue Ha SHENZHEN,
Reviewer:	THE CO.
	Joe Xia/Supervisor
	* >ESTING
Approve & Authorized Signer:	Lisa Wang/Manager



## 2. EUT DESCRIPTION

Characteristics	Description
Product:	Nio-PoE
Model Number:	Nio-PoE
Sample Number:	2#
Wifi Type:	Wifi 5G with 5150MHz-5250MHz Band Wifi 5G with 5250MHz-5350MHz Band Wifi 5G with 5470MHz-5725MHz Band Wifi 5G with 5725MHz-5850MHz Band
WLAN Supported:	802.11a/n/ac
Data Rate :	802.11a: 54/48/36/24/18/12/9/6Mbps 802.11n: MCS0-MCS7 802.11ac: MCS0-MCS9
Modulation:	OFDM with BPSK/QPSK/16QAM/64QAM for 802.11a/n OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11ac
Frequency Range:	UNII-1: 5150MHz-5250MHz Band 5180-5240MHz for 802.11a/n(HT20)/ac(VHT20); 5190-5230MHz for 802.11n(HT40)/ac(VHT40); 5210MHz for 802.11ac(VHT80);  UNII-2A: 5250MHz-5350MHz Band 5260-5320MHz for 802.11a/n(HT20)/ac(VHT20); 5270-5310MHz for 802.11n(HT40)/ac(VHT40); 5290MHz for 802.11ac(VHT80);  UNII-2C: 5470MHz-5725MHz Band 5500-5700MHz for 802.11a/n(HT20)/ac(VHT20); 5510-5670MHz for 802.11n(HT40)/ac(VHT40); 5530MHz for 802.11ac(VHT80);  UNII-3 with 5725MHz-5850MHz Band 5745-5825MHz for 802.11a/n(HT20)/ac(VHT20); 5755-5795MHz for 802.11n(HT40)/ac(VHT40); 5775MHz for 802.11ac(VHT80);
TPC Function:	Not Applicable
Antenna Port:	⊠Antenna port 1, ⊠Antenna port 2
Antenna Type:	⊠ANT 1: FPC Antenna ⊠ANT 2: External Antenna
Antenna Gain:	⊠ANT 1: 2.83 dBi ⊠ANT 2: 1.81 dBi
Transmit Power:	UNII-1 Band: 15.82 dBm UNII-2A Band: 14.85 dBm UNII-2C Band: 14.39 dBm UNII-3 Band: 14.07 dBm



Power Supply:	54V from POE
POE:	Model:TPE-319GI/A 10G PoE++Injector Power Input Range: 100-240, 50Hz/60Hz, 2.0A max PoE Output: 54V, 1.67A
Test Voltage:	AC 120V/60Hz
Date of Received:	May 4, 2023
Temperature Range:	-40°C ~ +45°C

Note: 1. for more details, please refer to the User's manual of the EUT.

2. Equipment with 2 diversity antennas but only 1 antenna active at any moment in time.





## 3. SUMMARY OF TEST RESULT

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





#### 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
Signal Analyzer	Agilent	N9010A	MY53470879	2022/5/14	1Year
Vector Signal Generater	Agilent	N5182B	MY53050878	2022/5/14	1Year
Analog Signal Generator	Agilent	N5171B	MY53050553	2022/5/14	1Year
Power Meter	Agilent	PS-X10-100	\	2022/5/15	1Year
Switchgroup	THEDA	ETF-025(VASC6)	TW5451008	N/A	N/A
MIMO Matrix Switch	THEDA	4P5TM18	TW5451009	N/A	N/A
Temperature&Humidity Chamber	ESPEC	EL-02KA	12107166	2022/7/3	1 Year

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Signal Analyzer	Agilent	N9010A	MY53470879	2023/5/10	1Year
Vector Signal Generater	Agilent	N5182B	MY53050878	2023/5/10	1Year
Analog Signal Generator	Agilent	N5171B	MY53050553	2023/5/10	1Year
Power Meter	Agilent	PS-X10-100	\	2023/5/13	1Year
Switchgroup	THEDA	ETF-025(VASC6)	TW5451008	N/A	N/A
MIMO Matrix Switch	THEDA	4P5TM18	TW5451009	N/A	N/A
Temperature&Humidity Chamber	ESPEC	EL-02KA	12107166	2023/5/10	1Year



#### **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):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180 <sup>°</sup>	44	5220		,
40	5200	48	5240		

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

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

Frequency and Channel list for 802.11ac (VHT80):

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

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

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);

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):

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):

			,,	( · · · · · <del>- · /</del> ·	
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):

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

Frequency and Channel list for 802.11ac (VHT80):

	0		<b>∵</b> /·		
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
58	5290				

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

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):

Lowest Frequency		Middle F	requency	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):

Tool I Toquonoy and	out reduction and original for our reduction of the contract (viriou).									
Lowest Frequency		Middle Frequency		Highest Frequency						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)					
58	5290		200							



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

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

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):

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):

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):

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):

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):

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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):

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):

	• • • • • • • • • • • • • • • • • • • •	30 <u>=:::::</u> (::::::0),	00=::::	. • / .	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	159	5795		

Frequency and Channel list for 802.11ac (VHT80):

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

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

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):

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):

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

Qit_	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,

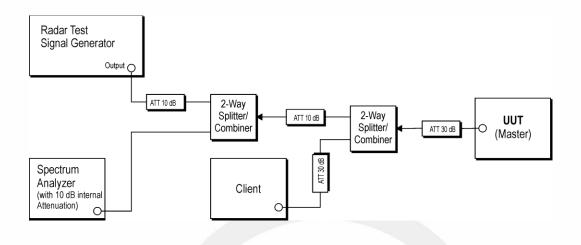
Nanshan District, Shenzhen, Guangdong, China



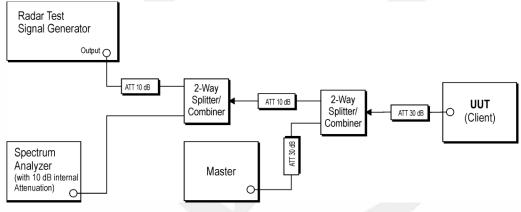
#### 6. SETUP OF EQUIPMENT UNDER TEST

#### **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 ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and	-62 dBm
power spectral density < 10 dBm/MHz	
EIRP < 200 milliwatt that do not meet the power	-64 dBm
spectral density requirement	

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

Dodon	Dulas Wista	DDI	Number of Duless	Minimum	Minimum
Radar	Pulse Width	PRI	Number of Pulses	Minimum	Minimum
Type	(µsec)	(µsec)		Percentage of	Number of
				Successful	Trials
				Detection	
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique	[(1)]	60%	30
		PRI values	$  \frac{360}{2} $ .		
		randomly selected	Roundup (360)		
		from the list of 23	19·10 <sup>6</sup>		
		PRI values in Table			
		5a	$\left(\left( \text{PRI}_{\mu \text{sec}} \right) \right)$		
		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 (I	Radar Types 1-	4)		80%	120
Note 1. She	ort Pulse Rada	r Type 0 should be u	sed for the detection ba	ndwidth test, ch	annel move

**Note 1:** 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 Percentag e 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 Percentag e of Successful Detection	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30



## 7.5TRANSMITTER OUTPUT POWER

## THE CONDUCTED OUTPUT POWER LIST

FREQUENCY	MAX. POWER				
(MHz)	OUTPUT POWER(dBm)	OUTPUT POWER(mW)			
5250 MHz-5350 MHz	14.85	30.55			
5470 MHz-5725 MHz	14.39	27.48			

#### THE MAX EIRP LIST

FREQUENCY	MAX. POWER			
(MHz)	OUTPUT POWER(dBm)	OUTPUT POWER(mW)		
5250 MHz-5350 MHz	17.68	58.61		
5470 MHz-5725 MHz	17.22	52.72		



## 7.6 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 assessedseparately.

Applicability of DFS Requirements Prior to Use of a Channel

	Operational Mode				
Requirement	Master	ClientWithout 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					
requirement	Master	ClientWithout 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			

#### 7.7 TEST PROCEDURE

According to KDB 905462 D02v02 Section 7.



## 8. TEST RESULT

## **8.1 DETAILED TEST RESULTS**

MODES	Test Parameter	Remark	Verdict
	DFS Detection Threshold	N/A	N/A
	Channel Availability Check Time	N/A	N/A
	Channel Move Time	N/A	N/A
□Master	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
	Radar Detection Threshold	N/A	N/A
	Channel Move Time	Applicable	PASS
⊠Slave	Channel Closing Transmission Time	Applicable	PASS
	Non-Occupancy Period	Applicable	PASS
	U-NII Detection Bandwidth	N/A	N/A



## **8.2 RADAR WAVEFORM**

#### Calibration:

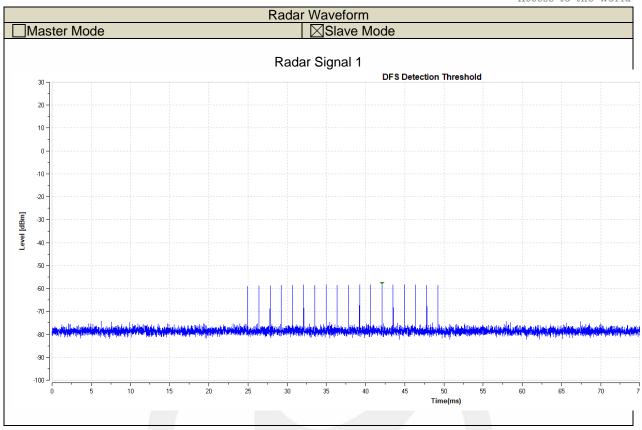
Maximum Transmit Power is begreater than 200 milliwatt and power spectral density <10 dBm/MHz in this report, so detection threshold level is -64dBm.

All the antenna(Antenna 1&2) and modes(802.11a/n/ac) has been tested and the worst(Antenna 1,802.11ac(VHT20)) result recorded was report as below:





Access to the World





## **8.3 IN-SERVICE MONITORING**

U-NII-Band II-A

O-MII-Dana I					
THEFT	Pulse	ar test singal	Number of	Waveform	Detection(Y/N)
Trial ID	Width(us)	PRI(us)	Pulses	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
	90%				

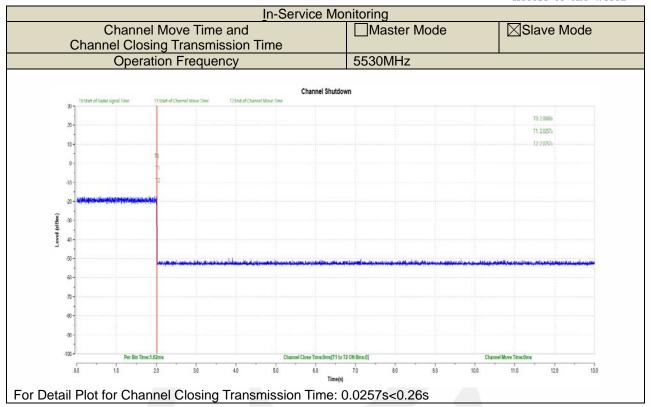


## U-NII-Band II-C

	Rad	ar test singal t	type 0		
Trial ID	Pulse		Number of	Waveform	Detection(Y/N)
Trial ID	Width(us)	PRI(us)	Pulses	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	Υ
4	1.0	1428.0	18	25704.0	Υ
5	1.0	1428.0	18	25704.0	Y
6	1.0	1428.0	18	25704.0	Υ
7	1.0	1428.0	18	25704.0	Υ
8	1.0	1428.0	18	25704.0	Υ
9	1.0	1428.0	18	25704.0	Υ
10	1.0	1428.0	18	25704.0	Υ
11	1.0	1428.0	18	25704.0	Υ
12	1.0	1428.0	18	25704.0	Υ
13	1.0	1428.0	18	25704.0	Υ
14	1.0	1428.0	18	25704.0	Υ
15	1.0	1428.0	18	25704.0	Υ
16	1.0	1428.0	18	25704.0	N
17	1.0	1428.0	18	25704.0	Υ
18	1.0	1428.0	18	25704.0	Υ
19	1.0	1428.0	18	25704.0	Υ
20	1.0	1428.0	18	25704.0	Υ
21	1.0	1428.0	18	25704.0	Y
22	1.0	1428.0	18	25704.0	Υ
23	1.0	1428.0	18	25704.0	Y
24	1.0	1428.0	18	25704.0	Υ
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	N
28	1.0	1428.0	18	25704.0	Y
29	1.0	1428.0	18	25704.0	Y
		<b>Detection Rat</b>	е		93.3%

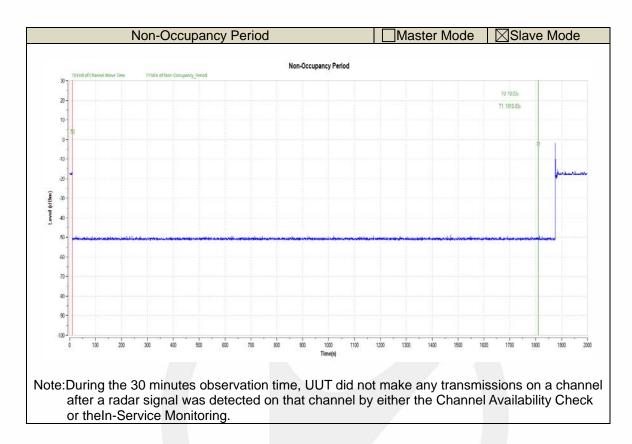


Access to the World





## **8.4 NON-OCCUPANCY PERIOD**



----- END OF REPORT -----