

TEST REPORT

Product Name : Wireless Access Point
Model Number : RG-RAP2200(E)
FCC ID : 2AX5J-RAP2200E

Prepared for : Ruijie Networks Co., Ltd.
Address : Building 19, Juyuanzhou Industrial Park, No.618 Jinshan Road, Cangshan District, Fuzhou, Fujian, China

Prepared by : EMTEK (SHENZHEN) CO., LTD.
Address : Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China

Tel: (0755) 26954280
Fax: (0755) 26954282

Report Number : ENS2211290156W00203R
Date(s) of Tests : December 08, 2022 to December 30, 2022
Date of Issue : December 30, 2022

TABLE OF CONTENTS

1 EUT DESCRIPTION.....	5
2 SUMMARY OF TEST RESULT.....	6
3 TEST METHODOLOGY.....	7
3.1 GENERAL DESCRIPTION OF APPLIED STANDARDS.....	7
3.2 MEASUREMENT EQUIPMENT USED.....	7
3.3 DESCRIPTION OF TEST MODES.....	8
4 FACILITIES AND ACCREDITATIONS.....	10
4.1 FACILITIES.....	10
4.2 EQUIPMENT.....	10
4.3 LABORATORY ACCREDITATIONS AND LISTINGS.....	10
5 SETUP OF EQUIPMENT UNDER TEST.....	11
5.1 SETUP CONFIGURATION OF EUT.....	11
5.2 CALIBRATION OF DFS DETECTION THRESHOLD LEVEL.....	11
5.3 SUPPORT EQUIPMENT.....	12
6 DYNAMIC FREQUENCY SELECTION REQUIREMENTS.....	13
6.1 APPLICABLE STANDARD.....	13
6.2 CONFORMANCE LIMIT.....	13
6.3 TEST CONFIGURATION.....	13
6.4 TEST PARAMETERS OF DFS TEST SIGNAL.....	14
6.5 OPERATION MODES AND REQUIREMENT TEST ITEMS.....	22
6.6 TEST PROCEDURE.....	22
7 TEST RESULT.....	23
7.1 DFS DETECTION THRESHOLD.....	23
7.2 CHANNEL AVAILABILITY CHECK TIME.....	35
7.3 NON- OCCUPANCY PERIOD.....	57
7.4 UNIFORM SPREADING.....	57
7.5 U-NII DETECTION BANDWIDTH.....	58

Modified Information

Version	Report No.	Revision Date	Summary
Ver.1.0	ENS2211290156W00203R	/	Original Report

TEST RESULT CERTIFICATION

Applicant: : Ruijie Networks Co., Ltd.
Address: Building 19,Juyuanzhou Industrial Park, No.618 Jinshan Road,
CangshanDistrict,Fuzhou,Fujian, China
Manufacturer: : Ruijie Networks Co., Ltd.
Address: Building 19,Juyuanzhou Industrial Park, No.618 Jinshan Road,
CangshanDistrict,Fuzhou,Fujian, China
EUT: : Wireless Access Point
Model Name: : RG-RAP2200(E)
Trademark: : **Ruijie**, **Reyee**, **Ruijie** | **Reyee**, **Reyee**, **Ruijie** | **Reyee**

Measurement Procedure Used:

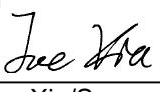
APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart E	PASS

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 requirements of FCC Rules Part 2 and Part 15.247.

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

Date of Test : December 08, 2022 to December 30, 2022

Prepared by : 
Una Yu/Editor

Reviewer : 
Joe Xia/Supervisor

Approved & Authorized Signer : 
Lisa Wang/Manager

1 EUT DESCRIPTION

Characteristics	Description
Product	Wireless Access Point
Model Number	RG-RAP2200(E)
Wifi Type	☒ UNII-2A: with 5250MHz-5350MHz Band ☒ UNII-2C: with 5470MHz-5725MHz Band
WLAN Supported	☒ 802.11a ☒ 802.11n(20MHz channel bandwidth) ☒ 802.11n(40MHz channel bandwidth) ☒ 802.11ac(20MHz channel bandwidth) ☒ 802.11ac(40MHz channel bandwidth) ☒ 802.11ac(80MHz channel bandwidth)
Data Rate	802.11a:54/48/36/24/18/12/9/6Mbps 802.11n:up to 300 Mbps 802.11ac:up to 866.7Mbps
Modulation	☒ OFDM with BPSK/QPSK/16QAM/64QAM for 802.11a/n ☒ OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11ac
Frequency Range	☒ UNII-2A: with 5250MHz-5350MHz Band ☒ 5260-5320MHz for 802.11a ☒ 5260-5320MHz for 802.11n(HT20) ☒ 5260-5320MHz for 802.11ac(VHT20) ☒ 5270-5310MHz for 802.11n(HT40) ☒ 5270-5310MHz for 802.11ac(VHT40) ☒ 5290MHz for 802.11ac(VHT80) ☒ UNII-2C: with 5470MHz-5725MHz Band ☒ 5500-5720MHz for 802.11a ☒ 5500-5720MHz for 802.11n(HT20) ☒ 5500-5720MHz for 802.11ac(VHT20) ☒ 5510-5710MHz for 802.11n(HT40) ☒ 5510-5710MHz for 802.11ac(VHT40) ☒ 5530-5690MHz for 802.11ac(VHT80)
TCP Function	☒ Applicable ☐ Not Applicable
Antenna Type	Integrated Antenna
Antenna Gain	5250-5350MHz: Ant 1: 4.67dBi, Ant 2: 4.67dBi 5470-5725MHz: Ant 1: 4.67dBi, Ant 2: 4.67dBi
Device Type	Master
Power Supply	DC 48V by POE adapter DC 12V by Power adapter
Temperature Range	0°C ~40°C

2 SUMMARY OF TEST RESULT

Clause	MODES	Test Parameter	Verdict	Remark
15.407	☒ Master	DFS Detection Threshold	PASS	Applicable
15.407		Channel Availability Check Time	PASS	Applicable
15.407		Channel Move Time	PASS	Applicable
15.407		Channel Closing Transmission Time	PASS	Applicable
15.407		Non-Occupancy Period	PASS	Applicable
15.407		Uniform Spreading	PASS	Applicable
15.407		U-NII Detection Bandwidth	PASS	Applicable
15.407	☐ Slave	Radar Detection Threshold	N/A	N/A
15.407		Channel Move Time	N/A	N/A
15.407		Channel Closing Transmission Time	N/A	N/A
15.407		Non-Occupancy Period	N/A	N/A
15.407		U-NII Detection Bandwidth	N/A	N/A



3 TEST METHODOLOGY

3.1 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

3.2 MEASUREMENT EQUIPMENT USED

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Signal Analyzer	Agilent	N9010A	MY53470879	2022/5/14	1Year
Vector Signal Generator	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
Thermometer	Hegao	HTC-1	\	2022/5/17	1Year

3.3 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 -2A

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

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):

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

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

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	60	5300	64	5320

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)
54	5270	N/A	N/A	62	5310

Test Frequency and channel for 802.11ac (VHT80):

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/n (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	144	5720

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	142	5710

Frequency and Channel list for 802.11ac (VHT80):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
106	5530	122	5610		
138	5690				

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

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	116	5580	144	5720

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	110	5550	142	5710

Test Frequency and channel for 802.11ac (VHT80):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
106	5530	138	5690		

4 FACILITIES AND ACCREDITATIONS

4.1 FACILITIES

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

Bldg 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.

4.2 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."

4.3 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.

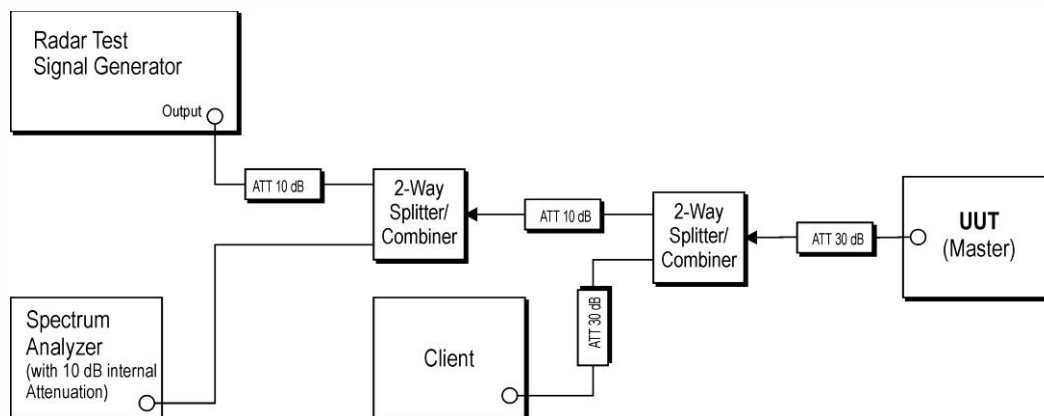
Site Location

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

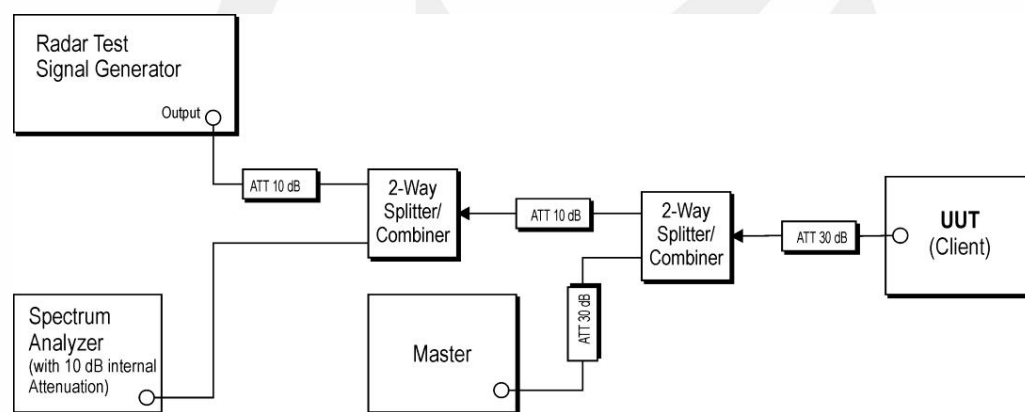
5 SETUP OF EQUIPMENT UNDER TEST

5.1 SETUP CONFIGURATION OF EUT

Master Mode



Slave Mode



5.2 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.

5.3 SUPPORT EQUIPMENT

Wireless Access Point	:	Model: AIR-CAP3702E-A-K9
		Mfr/Brand: Cisco
		Series No.:FTX182276QD
		FCC ID: LDK102087
POE Adapter		IC:2461B-102087
	:	Model: PSA16U-480(POE)
		Input: 100-240V~0.4A, 50-60Hz
		Output: 48V, 0.32A
Power Adapter		CE, FCC
	:	Model: RD1201500-C55-198GB
		Input: 100-240V~50/60Hz, 0.6A
		Output: 12V, 1.5A

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.

6 DYNAMIC FREQUENCY SELECTION REQUIREMENTS

6.1 APPLICABLE STANDARD

According to 15.407

6.2 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: <i>Channel Move Time</i> and the <i>Channel Closing Transmission Time</i> should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. Note 2: The <i>Channel Closing Transmission Time</i> is comprised of 200 milliseconds starting at the beginning of the <i>Channel Move Time</i> plus any additional intermittent control signals required to facilitate a <i>Channel</i> 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 <i>U-NII Detection Bandwidth</i> 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.	

6.3 TEST CONFIGURATION

Conducted measurements shall be used for DFS test

6.4 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 $\left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$	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
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 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

Radar 0 Statical Performances

Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
0	Type 0	1.0	1428.0	18	25704.0
1	Type 0	1.0	1428.0	18	25704.0
2	Type 0	1.0	1428.0	18	25704.0
3	Type 0	1.0	1428.0	18	25704.0
4	Type 0	1.0	1428.0	18	25704.0
5	Type 0	1.0	1428.0	18	25704.0
6	Type 0	1.0	1428.0	18	25704.0
7	Type 0	1.0	1428.0	18	25704.0
8	Type 0	1.0	1428.0	18	25704.0
9	Type 0	1.0	1428.0	18	25704.0
10	Type 0	1.0	1428.0	18	25704.0
11	Type 0	1.0	1428.0	18	25704.0
12	Type 0	1.0	1428.0	18	25704.0
13	Type 0	1.0	1428.0	18	25704.0
14	Type 0	1.0	1428.0	18	25704.0
15	Type 0	1.0	1428.0	18	25704.0
16	Type 0	1.0	1428.0	18	25704.0
17	Type 0	1.0	1428.0	18	25704.0
18	Type 0	1.0	1428.0	18	25704.0
19	Type 0	1.0	1428.0	18	25704.0
20	Type 0	1.0	1428.0	18	25704.0
21	Type 0	1.0	1428.0	18	25704.0
22	Type 0	1.0	1428.0	18	25704.0
23	Type 0	1.0	1428.0	18	25704.0
24	Type 0	1.0	1428.0	18	25704.0
25	Type 0	1.0	1428.0	18	25704.0
26	Type 0	1.0	1428.0	18	25704.0
27	Type 0	1.0	1428.0	18	25704.0
28	Type 0	1.0	1428.0	18	25704.0
29	Type 0	1.0	1428.0	18	25704.0

Radar 1 Statical Performances

Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
0	Type 1	1.0	938.0	57	53466.0
1	Type 1	1.0	698.0	76	53048.0
2	Type 1	1.0	618.0	86	53148.0
3	Type 1	1.0	538.0	99	53262.0
4	Type 1	1.0	878.0	61	53558.0
5	Type 1	1.0	3066.0	18	55188.0
6	Type 1	1.0	638.0	83	52954.0
7	Type 1	1.0	918.0	58	53244.0
8	Type 1	1.0	838.0	63	52794.0
9	Type 1	1.0	858.0	62	53196.0
10	Type 1	1.0	798.0	67	53466.0
11	Type 1	1.0	718.0	74	53132.0
12	Type 1	1.0	578.0	92	53176.0
13	Type 1	1.0	598.0	89	53222.0
14	Type 1	1.0	558.0	95	53010.0
15	Type 1	1.0	2536.0	21	53256.0
16	Type 1	1.0	966.0	55	53130.0
17	Type 1	1.0	827.0	64	52928.0
18	Type 1	1.0	2501.0	22	55022.0
19	Type 1	1.0	2595.0	21	54495.0
20	Type 1	1.0	1114.0	48	53472.0
21	Type 1	1.0	1302.0	41	53382.0
22	Type 1	1.0	3045.0	18	54810.0
23	Type 1	1.0	1624.0	33	53592.0
24	Type 1	1.0	2878.0	19	54682.0
25	Type 1	1.0	1027.0	52	53404.0
26	Type 1	1.0	2485.0	22	54670.0
27	Type 1	1.0	1600.0	33	52800.0
28	Type 1	1.0	1172.0	46	53912.0
29	Type 1	1.0	1177.0	45	52965.0

Radar 2 Statical Performances

Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
0	Type 2	3.2	179.0	26	4654.0
1	Type 2	1.1	207.0	23	4761.0
2	Type 2	2.1	230.0	24	5520.0
3	Type 2	4.8	200.0	29	5800.0
4	Type 2	3.9	214.0	28	5992.0
5	Type 2	2.9	222.0	26	5772.0
6	Type 2	3.2	204.0	26	5304.0
7	Type 2	2.5	192.0	25	4800.0
8	Type 2	3.1	164.0	26	4264.0
9	Type 2	1.2	156.0	23	3588.0
10	Type 2	3.9	210.0	27	5670.0
11	Type 2	4.6	201.0	29	5829.0
12	Type 2	3.2	162.0	26	4212.0
13	Type 2	2.2	197.0	25	4925.0
14	Type 2	4.5	163.0	29	4727.0
15	Type 2	3.0	203.0	26	5278.0
16	Type 2	5.0	168.0	29	4872.0
17	Type 2	2.4	217.0	25	5425.0
18	Type 2	2.9	191.0	26	4966.0
19	Type 2	2.3	166.0	25	4150.0
20	Type 2	3.7	150.0	27	4050.0
21	Type 2	2.2	176.0	25	4400.0
22	Type 2	4.9	195.0	29	5655.0
23	Type 2	2.9	202.0	26	5252.0
24	Type 2	2.5	178.0	25	4450.0
25	Type 2	1.1	206.0	23	4736.0
26	Type 2	3.8	155.0	27	4185.0
27	Type 2	4.7	157.0	29	4553.0
28	Type 2	2.4	224.0	25	5600.0
29	Type 2	4.2	159.0	28	4452.0

Radar 3 Statical Performances

Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
0	Type 3	8.2	355.0	17	6035.0
1	Type 3	6.1	487.0	16	7792.0
2	Type 3	7.1	344.0	16	5504.0
3	Type 3	9.8	288.0	18	5184.0
4	Type 3	8.9	230.0	18	4140.0
5	Type 3	7.9	432.0	17	7344.0
6	Type 3	8.2	207.0	17	3519.0
7	Type 3	7.5	443.0	17	7531.0
8	Type 3	8.1	439.0	17	7463.0
9	Type 3	6.2	223.0	16	3568.0
10	Type 3	8.9	208.0	18	3744.0
11	Type 3	9.6	463.0	18	8334.0
12	Type 3	8.2	441.0	17	7497.0
13	Type 3	7.2	323.0	16	5168.0
14	Type 3	9.5	297.0	18	5346.0
15	Type 3	8.0	412.0	17	7004.0
16	Type 3	10.0	324.0	18	5832.0
17	Type 3	7.4	271.0	17	4607.0
18	Type 3	7.9	349.0	17	5933.0
19	Type 3	7.3	409.0	16	6544.0
20	Type 3	8.7	373.0	18	6714.0
21	Type 3	7.2	254.0	16	4064.0
22	Type 3	9.9	274.0	18	4932.0
23	Type 3	7.9	278.0	17	4726.0
24	Type 3	7.5	317.0	17	5389.0
25	Type 3	6.1	260.0	16	4160.0
26	Type 3	8.8	211.0	18	3798.0
27	Type 3	9.7	272.0	18	4896.0
28	Type 3	7.4	264.0	17	4488.0
29	Type 3	9.2	284.0	18	5112.0

Radar 4 Statical Performances

Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
0	Type 4	16.0	355.0	14	4970.0
1	Type 4	11.3	487.0	12	5844.0
2	Type 4	13.5	344.0	13	4472.0
3	Type 4	19.4	288.0	16	4608.0
4	Type 4	17.5	230.0	15	3450.0
5	Type 4	15.3	432.0	14	6048.0
6	Type 4	15.9	207.0	14	2898.0
7	Type 4	14.3	443.0	13	5759.0
8	Type 4	15.8	439.0	14	6146.0
9	Type 4	11.5	223.0	12	2676.0
10	Type 4	17.4	208.0	15	3120.0
11	Type 4	19.0	463.0	16	7408.0
12	Type 4	16.0	441.0	14	6174.0
13	Type 4	13.8	323.0	13	4199.0
14	Type 4	18.9	297.0	16	4752.0
15	Type 4	15.5	412.0	14	5768.0
16	Type 4	19.9	324.0	16	5184.0
17	Type 4	14.1	271.0	13	3523.0
18	Type 4	15.2	349.0	14	4886.0
19	Type 4	13.8	409.0	13	5317.0
20	Type 4	17.1	373.0	15	5595.0
21	Type 4	13.8	254.0	13	3302.0
22	Type 4	19.8	274.0	16	4384.0
23	Type 4	15.3	278.0	14	3892.0
24	Type 4	14.5	317.0	13	4121.0
25	Type 4	11.3	260.0	12	3120.0
26	Type 4	17.3	211.0	15	3165.0
27	Type 4	19.2	272.0	16	4352.0
28	Type 4	14.2	264.0	13	3432.0
29	Type 4	18.2	284.0	15	4260.0

Radar 5 Statical Performances

Trial Id	Radar Type	Number of Bursts	Burst Period (s)	Waveform Length (s)	Center Frequency (GHz)
0	Type 5	15	0.8000000	12.0000000	5.500000000
1	Type 5	8	1.5000000	12.0000000	5.500000000
2	Type 5	11	1.0909091	12.0000000	5.500000000
3	Type 5	20	0.6000000	12.0000000	5.500000000
4	Type 5	17	0.7058824	12.0000000	5.500000000
5	Type 5	14	0.8571429	12.0000000	5.500000000
6	Type 5	15	0.8000000	12.0000000	5.500000000
7	Type 5	12	1.0000000	12.0000000	5.500000000
8	Type 5	14	0.8571429	12.0000000	5.500000000
9	Type 5	8	1.5000000	12.0000000	5.500000000
10	Type 5	17	0.7058824	12.0000000	5.496400000
11	Type 5	19	0.6315789	12.0000000	5.497600000
12	Type 5	15	0.8000000	12.0000000	5.495200000
13	Type 5	12	1.0000000	12.0000000	5.494000000
14	Type 5	19	0.6315789	12.0000000	5.497200000
15	Type 5	14	0.8571429	12.0000000	5.494800000
16	Type 5	20	0.6000000	12.0000000	5.498000000
17	Type 5	12	1.0000000	12.0000000	5.494000000
18	Type 5	14	0.8571429	12.0000000	5.494800000
19	Type 5	12	1.0000000	12.0000000	5.494000000
20	Type 5	16	0.7500000	12.0000000	5.504000000
21	Type 5	12	1.0000000	12.0000000	5.506400000
22	Type 5	20	0.6000000	12.0000000	5.502000000
23	Type 5	14	0.8571429	12.0000000	5.505200000
24	Type 5	13	0.9230769	12.0000000	5.505800000
25	Type 5	8	1.5000000	12.0000000	5.508000000
26	Type 5	17	0.7058824	12.0000000	5.503600000
27	Type 5	19	0.6315789	12.0000000	5.502400000
28	Type 5	12	1.0000000	12.0000000	5.506000000
29	Type 5	18	0.6666667	12.0000000	5.503200000

Radar 6 Statical Performances

Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (ms)	Visible Frequency Number
0	Type 6	1.0	333.3	9	0.3333	300.0000000	5
1	Type 6	1.0	333.3	9	0.3333	300.0000000	1
2	Type 6	1.0	333.3	9	0.3333	300.0000000	4
3	Type 6	1.0	333.3	9	0.3333	300.0000000	6
4	Type 6	1.0	333.3	9	0.3333	300.0000000	2
5	Type 6	1.0	333.3	9	0.3333	300.0000000	1
6	Type 6	1.0	333.3	9	0.3333	300.0000000	4
7	Type 6	1.0	333.3	9	0.3333	300.0000000	6
8	Type 6	1.0	333.3	9	0.3333	300.0000000	5
9	Type 6	1.0	333.3	9	0.3333	300.0000000	1
10	Type 6	1.0	333.3	9	0.3333	300.0000000	4
11	Type 6	1.0	333.3	9	0.3333	300.0000000	8
12	Type 6	1.0	333.3	9	0.3333	300.0000000	5
13	Type 6	1.0	333.3	9	0.3333	300.0000000	5
14	Type 6	1.0	333.3	9	0.3333	300.0000000	4
15	Type 6	1.0	333.3	9	0.3333	300.0000000	6
16	Type 6	1.0	333.3	9	0.3333	300.0000000	2
17	Type 6	1.0	333.3	9	0.3333	300.0000000	5
18	Type 6	1.0	333.3	9	0.3333	300.0000000	4
19	Type 6	1.0	333.3	9	0.3333	300.0000000	5
20	Type 6	1.0	333.3	9	0.3333	300.0000000	5
21	Type 6	1.0	333.3	9	0.3333	300.0000000	8
22	Type 6	1.0	333.3	9	0.3333	300.0000000	5
23	Type 6	1.0	333.3	9	0.3333	300.0000000	2
24	Type 6	1.0	333.3	9	0.3333	300.0000000	3
25	Type 6	1.0	333.3	9	0.3333	300.0000000	3
26	Type 6	1.0	333.3	9	0.3333	300.0000000	4
27	Type 6	1.0	333.3	9	0.3333	300.0000000	5
28	Type 6	1.0	333.3	9	0.3333	300.0000000	7
29	Type 6	1.0	333.3	9	0.3333	300.0000000	3

6.5 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

6.6 TEST PROCEDURE

According to KDB 905462 D02v02 Section 7.

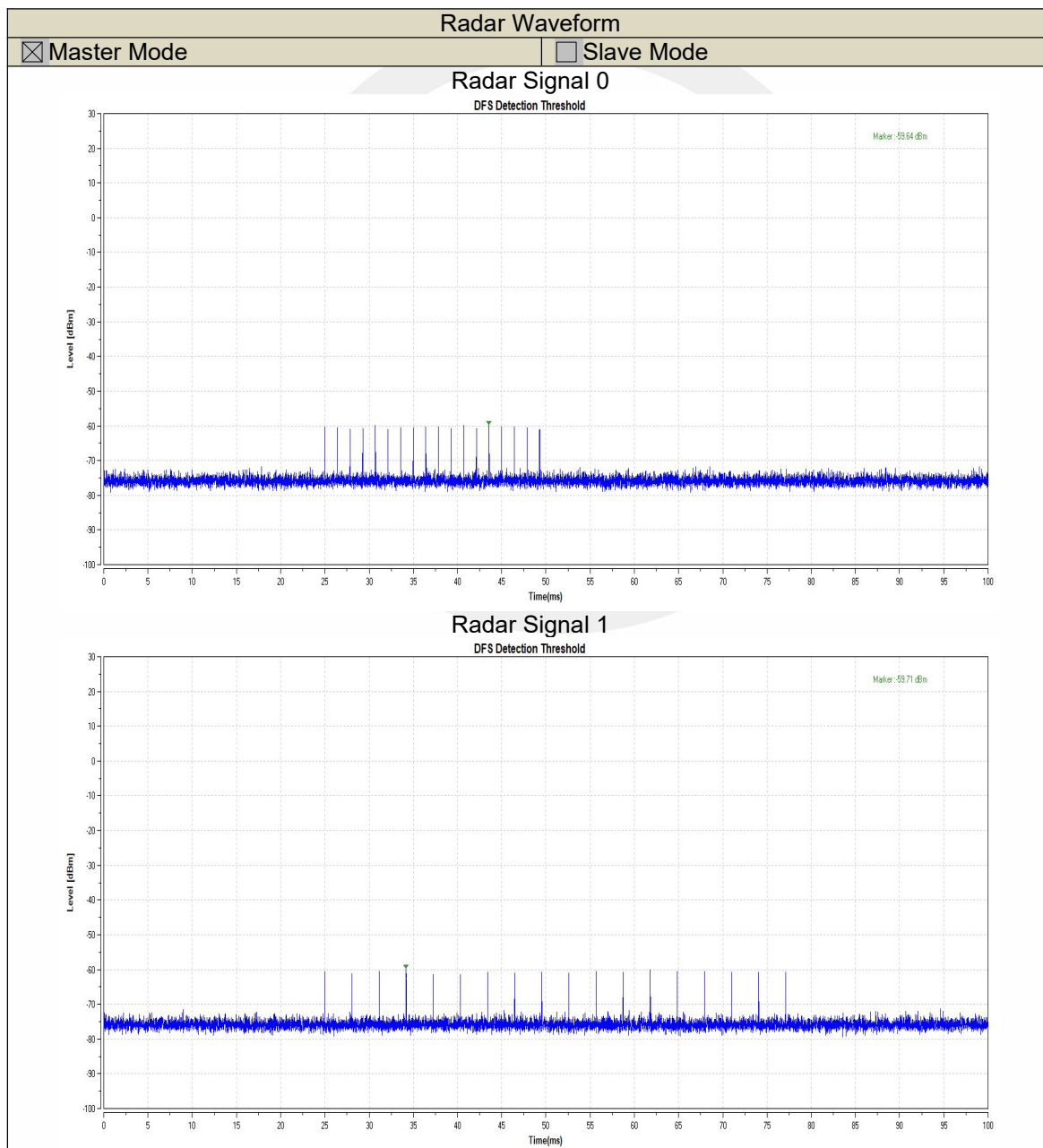
7 TEST RESULT

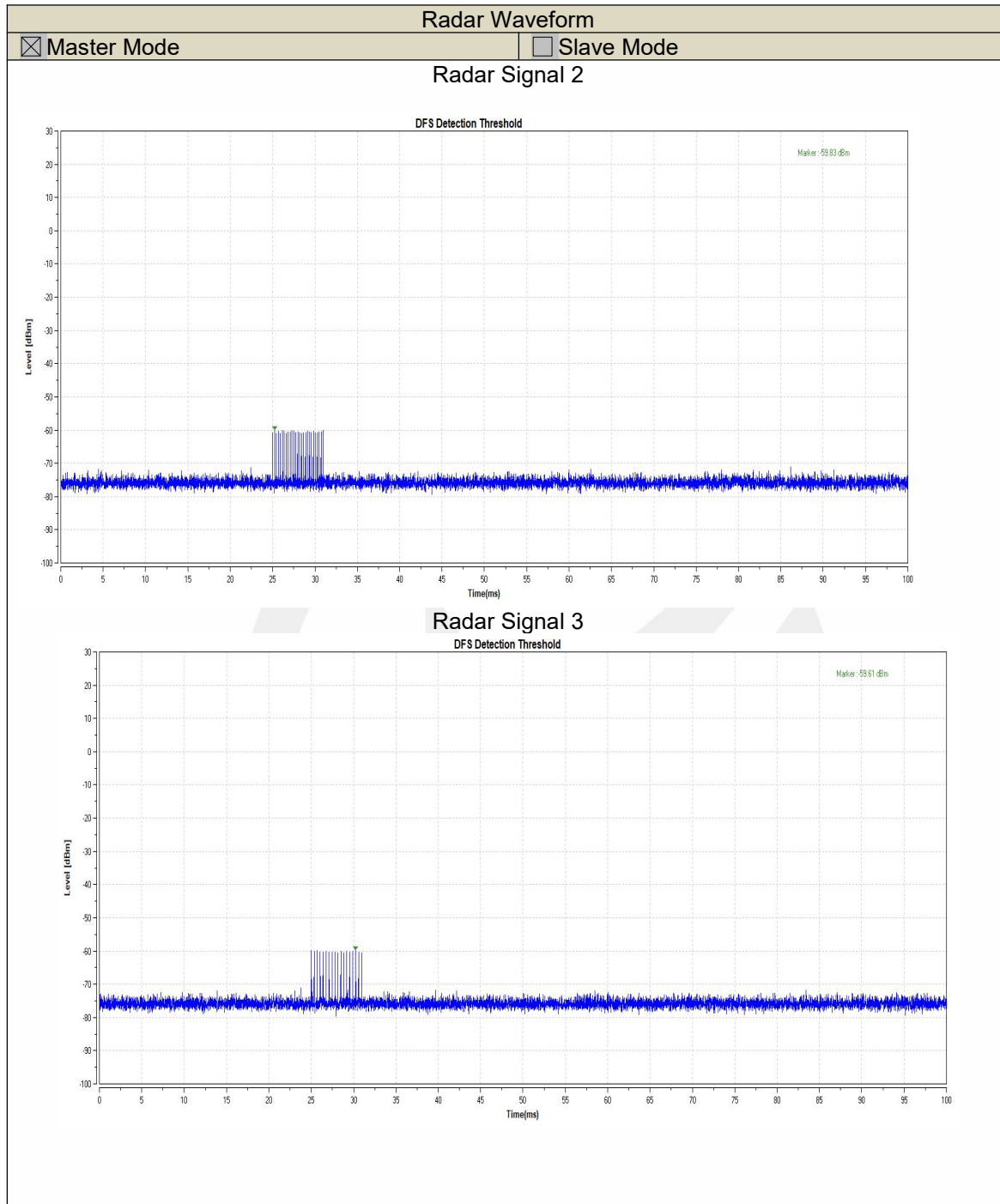
7.1 DFS DETECTION THRESHOLD

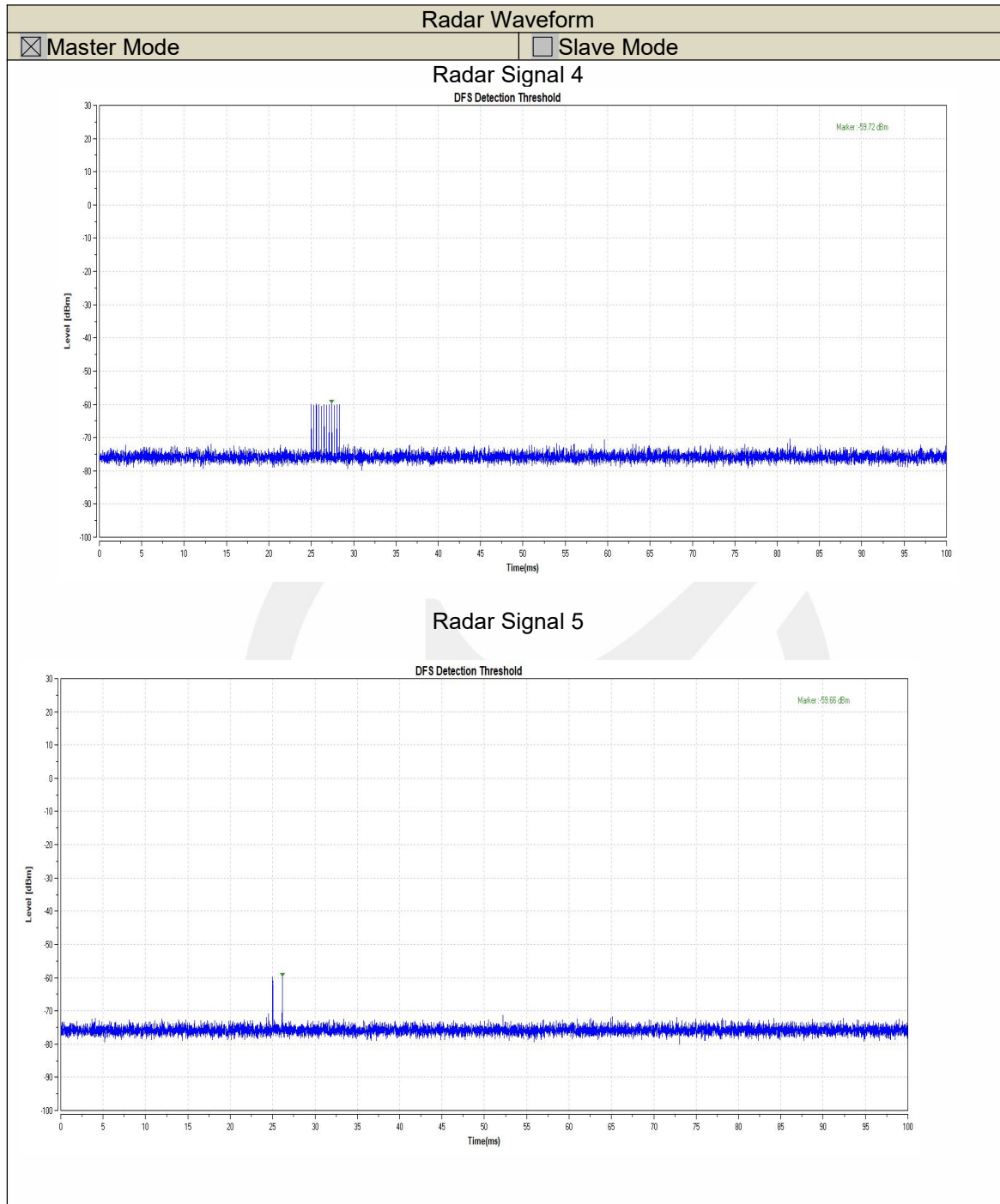
(1)20MHz

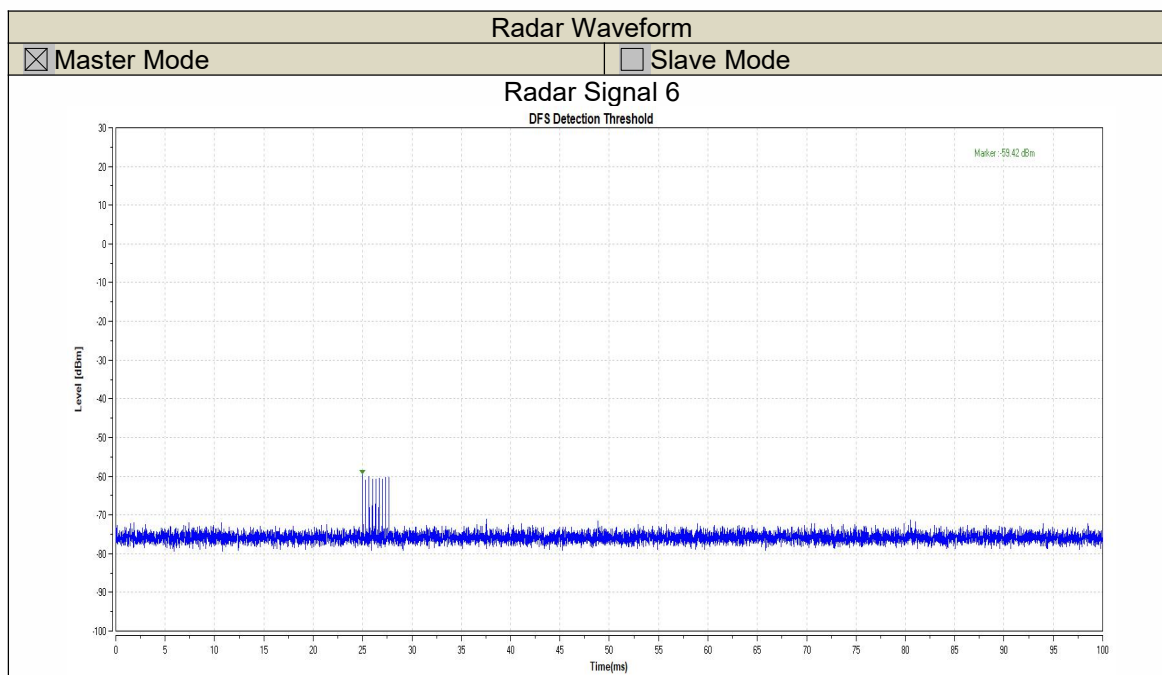
The waveforms that were used for all test mode.

TestMode	Frequency[MHz]	Radar Type	Result[dbm]	Limit[dbm]	Verdict
11AC20	5260	Type0	-59.64	-59.33	PASS
		Type1	-59.71	-59.33	PASS
		Type2	-59.83	-59.33	PASS
		Type3	-59.61	-59.33	PASS
		Type4	-59.72	-59.33	PASS
		Type5	-59.66	-59.33	PASS
		Type6	-59.42	-59.33	PASS





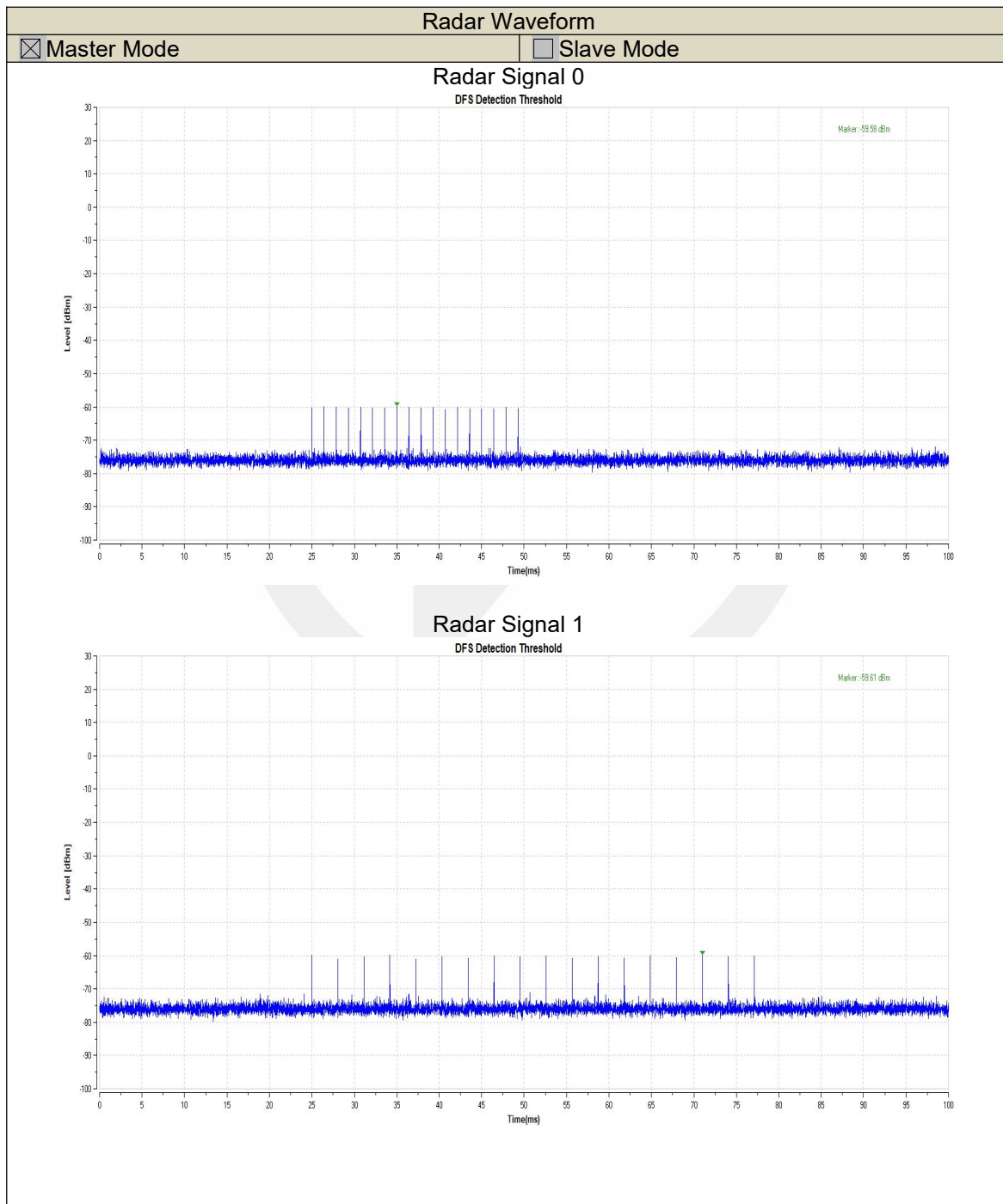


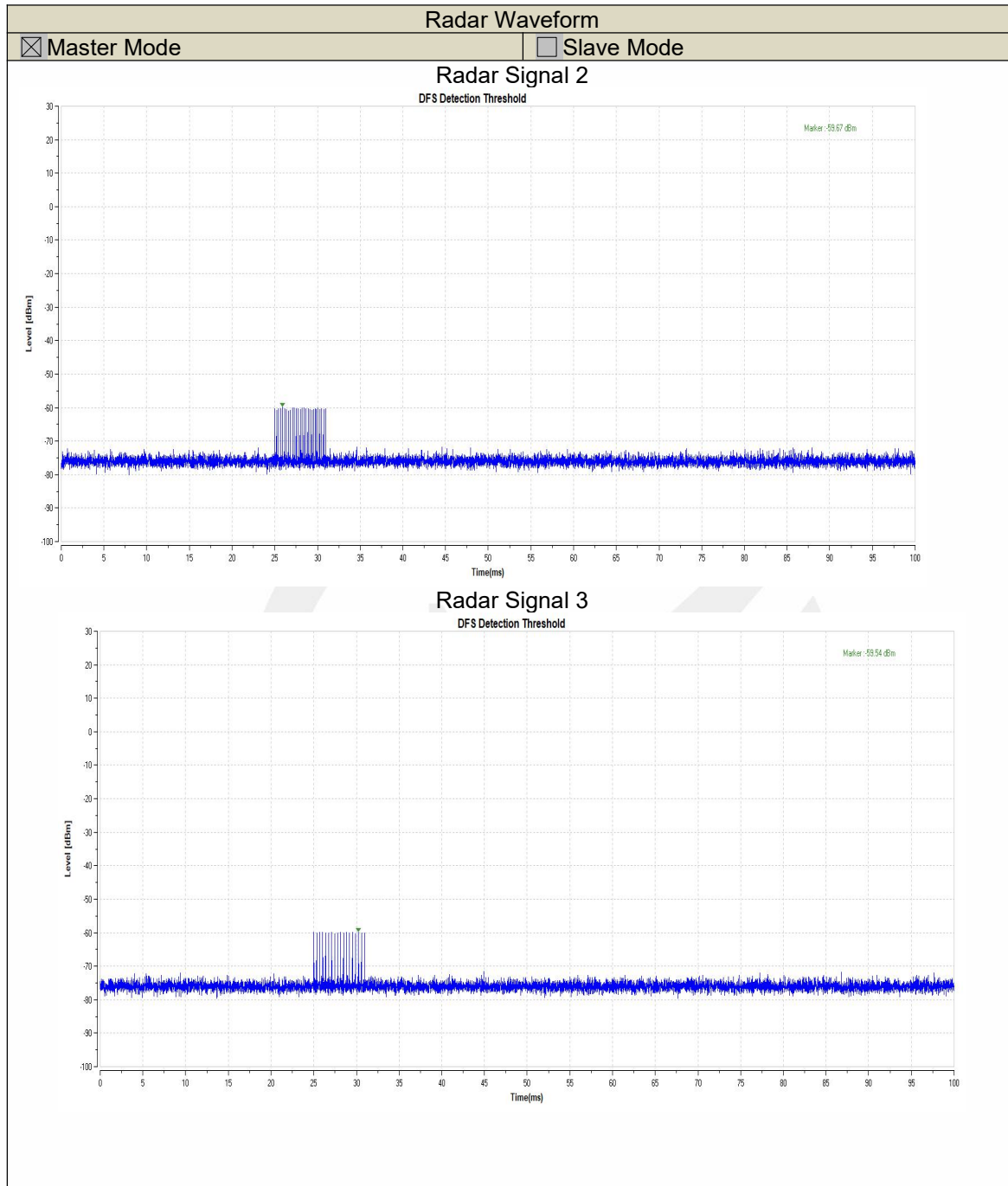


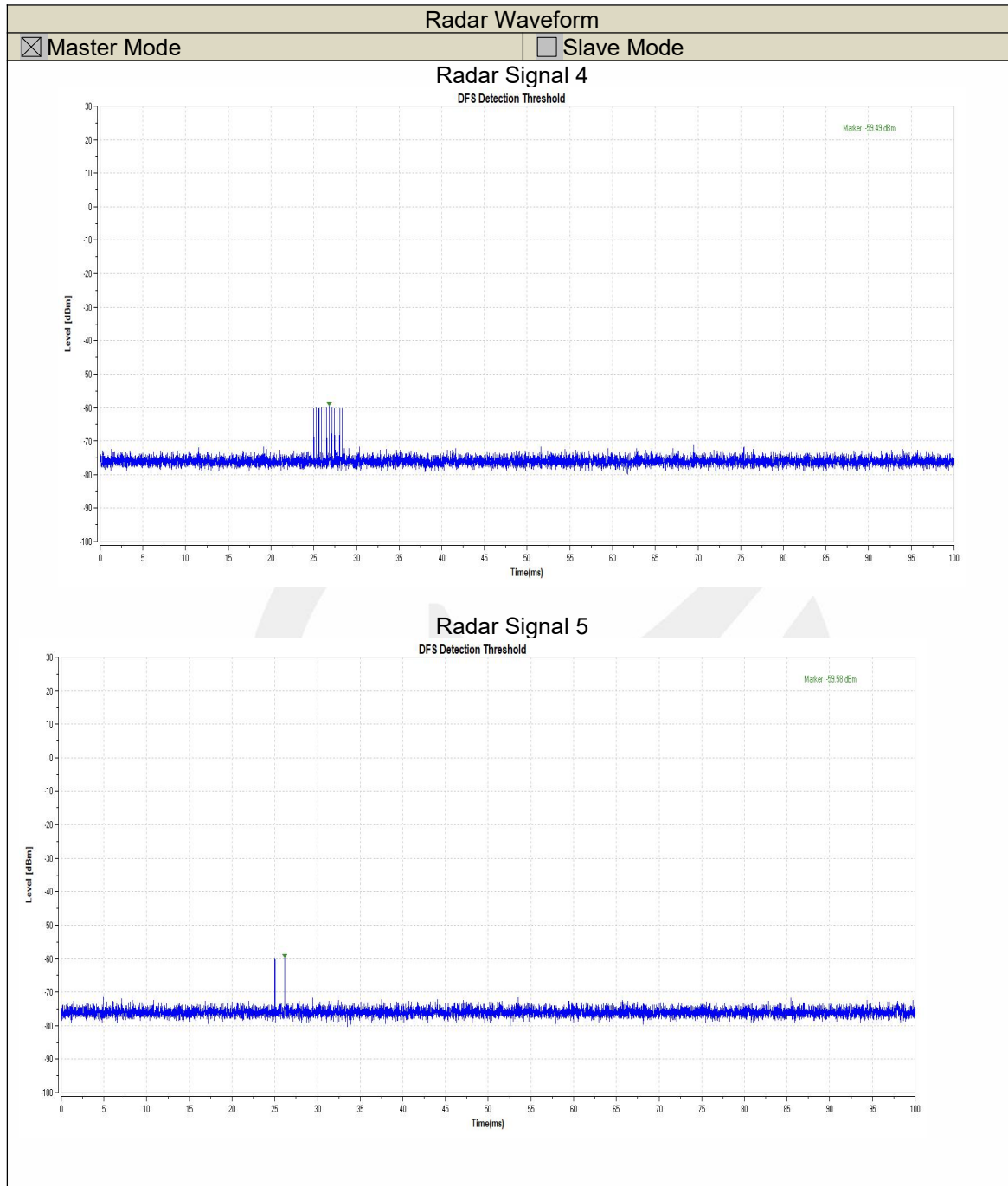
(2)40MHz

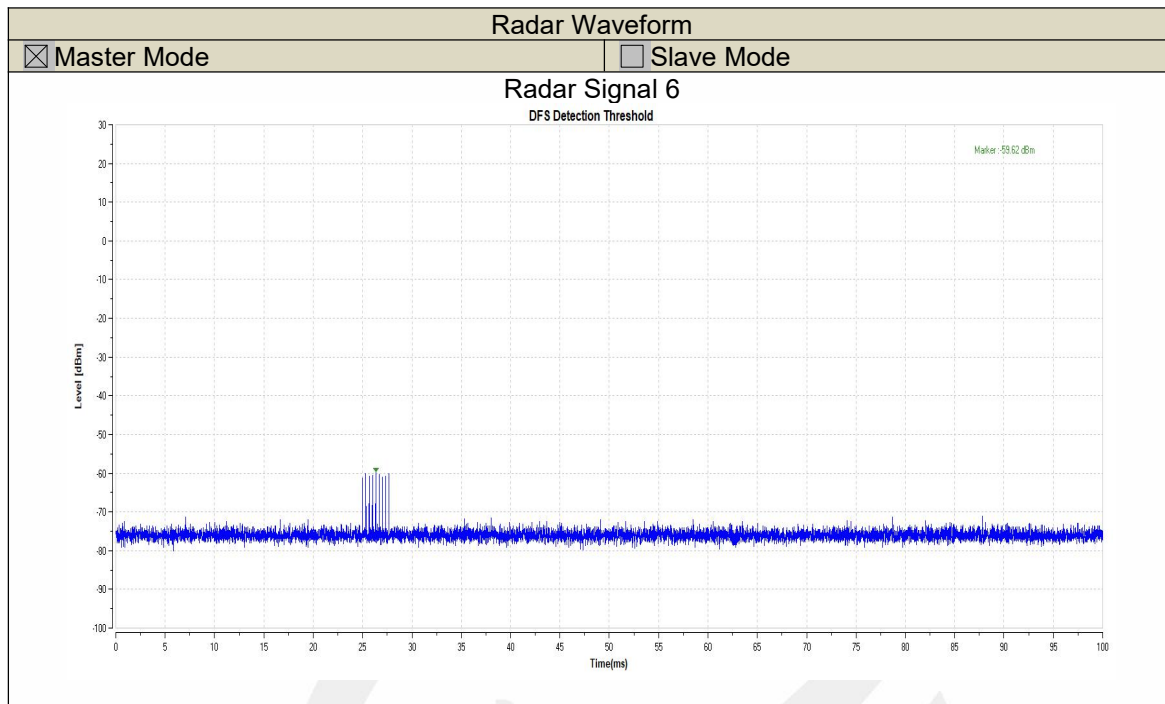
The waveforms that were used for all test mode.

TestMode	Frequency[MHz]	Radar Type	Result[dbm]	Limit[dbm]	Verdict
11AC40	5270	Type0	-59.58	-59.33	PASS
		Type1	-59.61	-59.33	PASS
		Type2	-59.67	-59.33	PASS
		Type3	-59.54	-59.33	PASS
		Type4	-59.49	-59.33	PASS
		Type5	-59.58	-59.33	PASS
		Type6	-59.62	-59.33	PASS





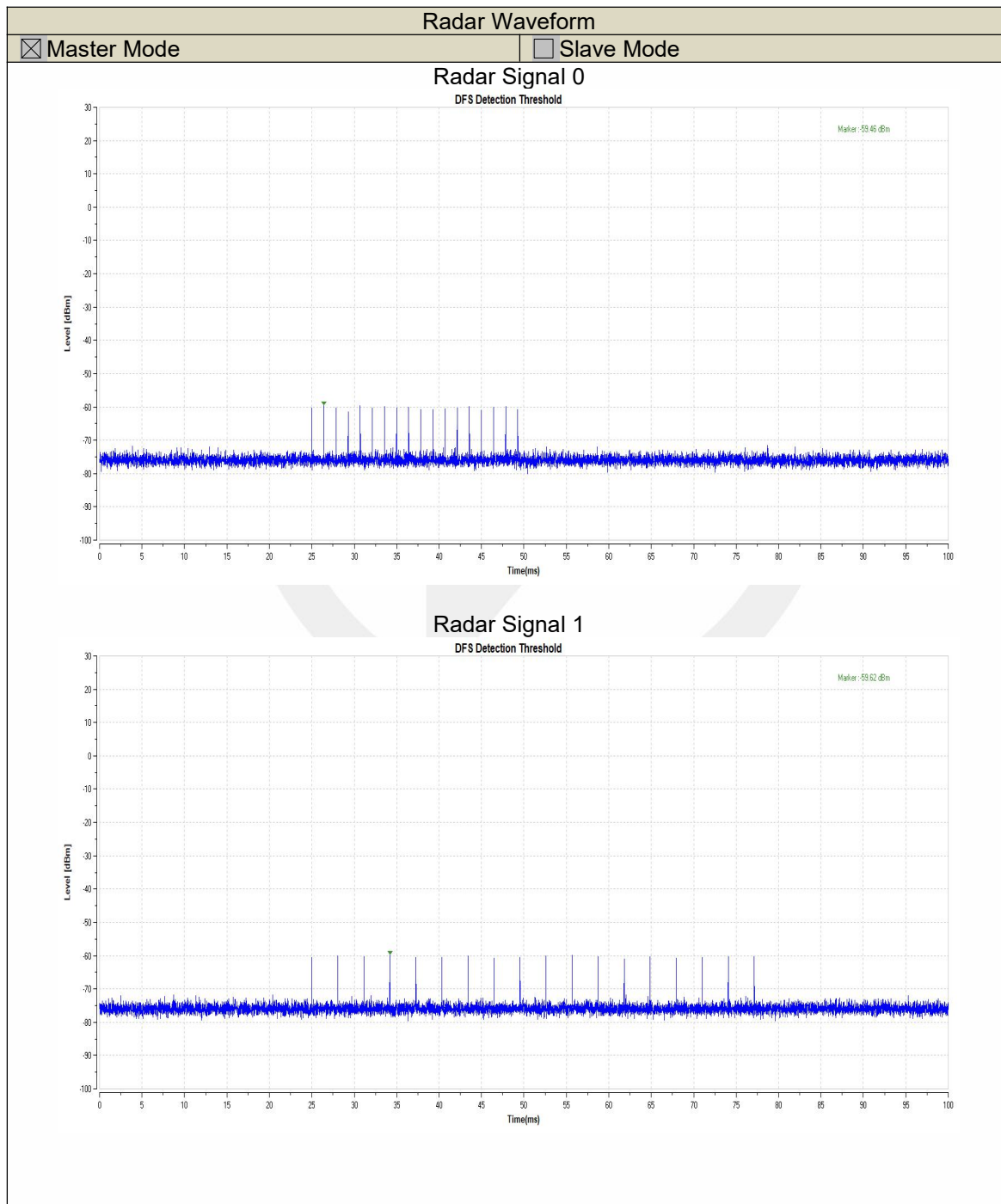


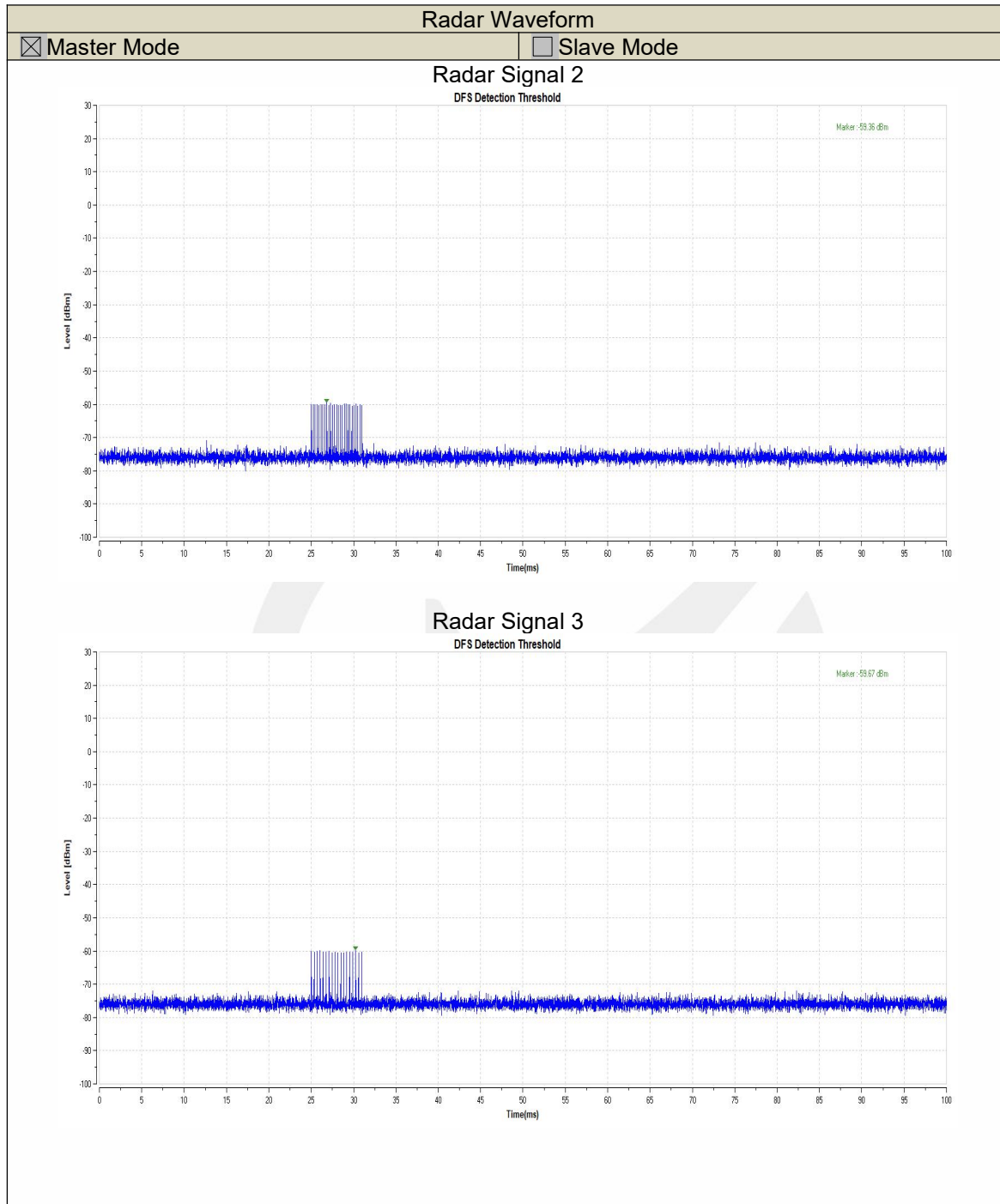


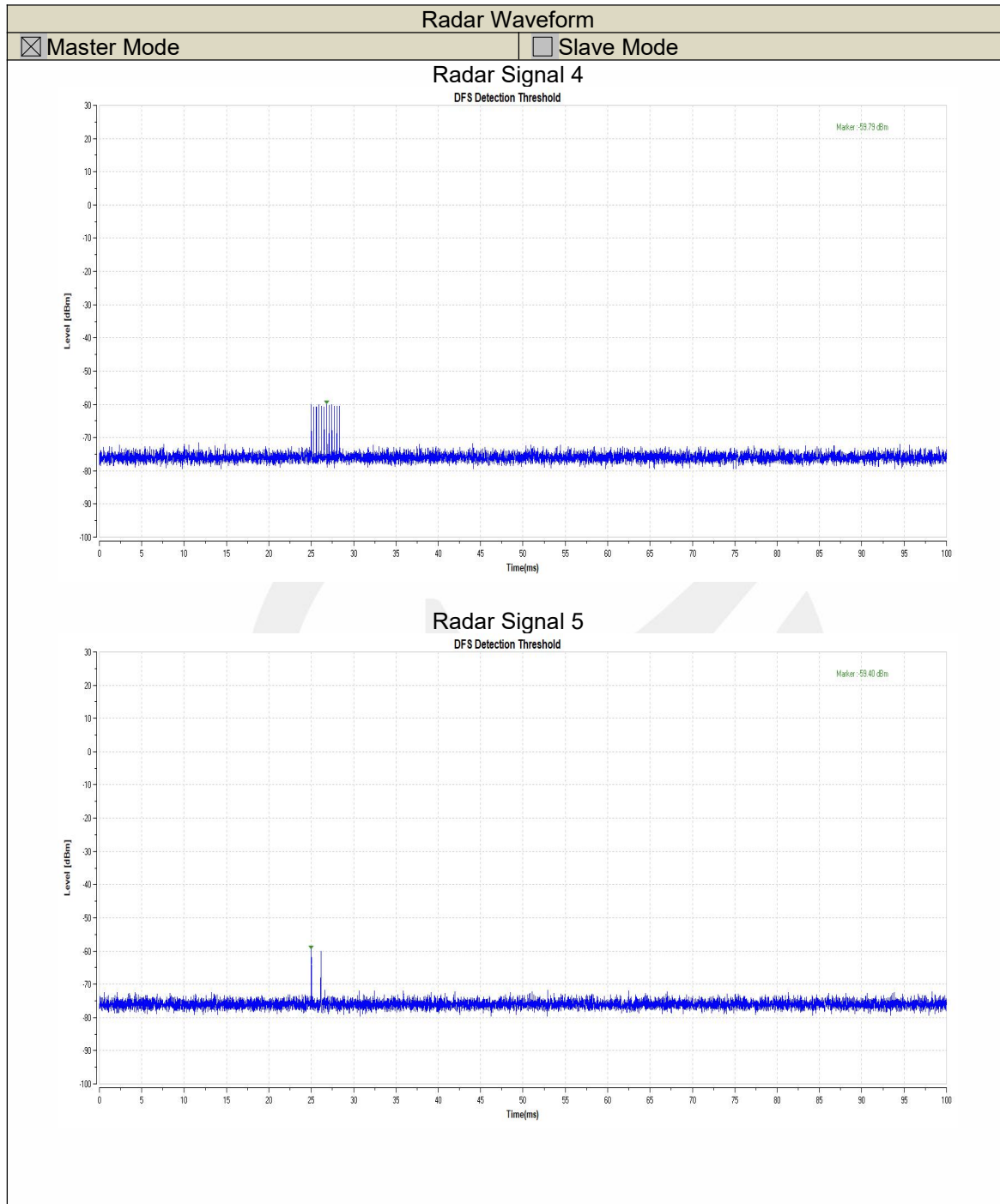
(3)80MHz

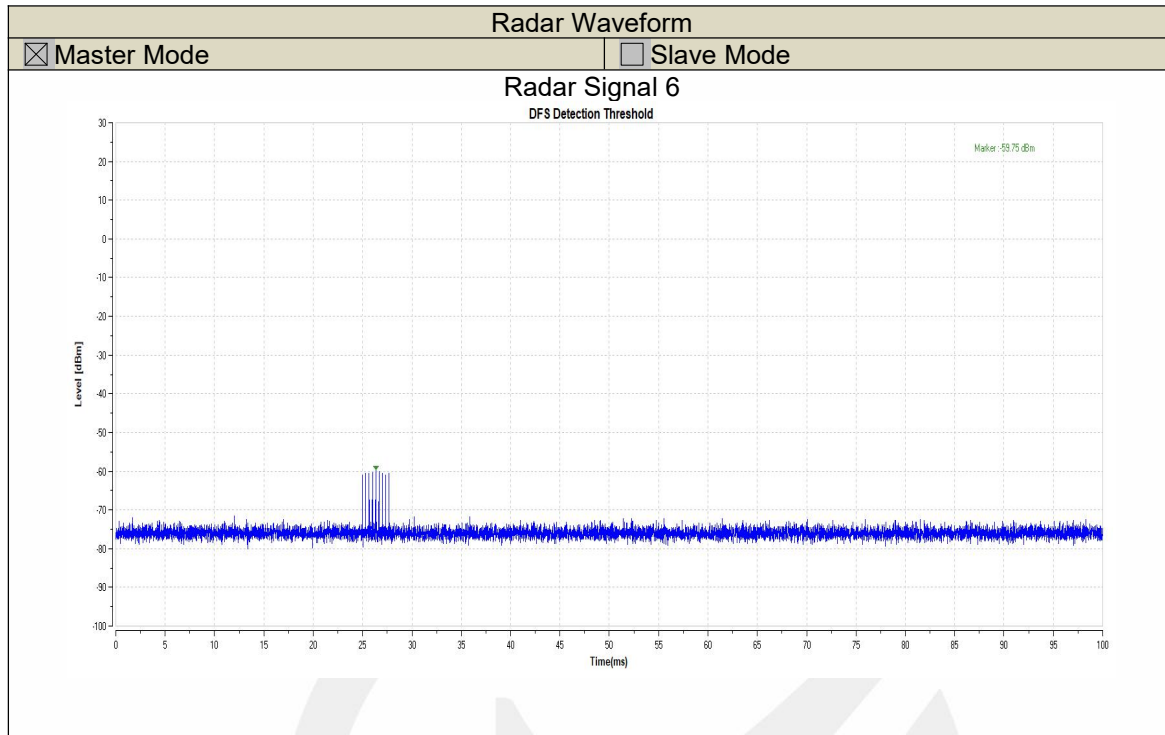
The waveforms that were used for all test mode.

TestMode	Frequency[MHz]	Radar Type	Result[dbm]	Limit[dbm]	Verdict
11AC80	5290	Type0	-59.46	-59.33	PASS
		Type1	-59.62	-59.33	PASS
		Type2	-59.36	-59.33	PASS
		Type3	-59.67	-59.33	PASS
		Type4	-59.79	-59.33	PASS
		Type5	-59.40	-59.33	PASS
		Type6	-59.75	-59.33	PASS







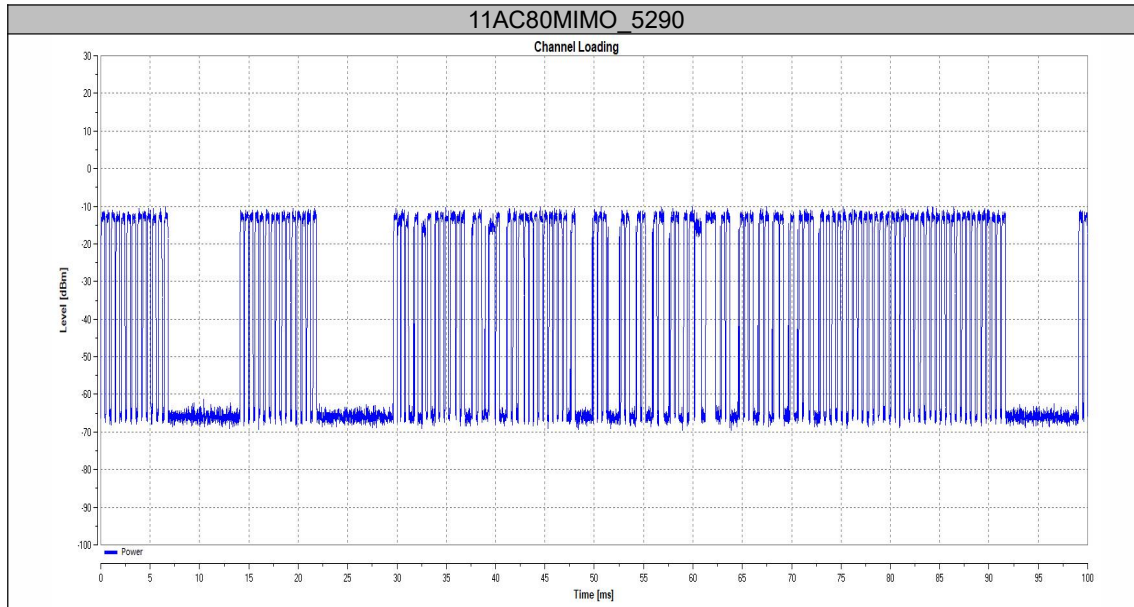


7.2 CHANNEL AVAILABILITY CHECK TIME

If the UUT successfully detected the radar burst, it should be observed as the UUT has no transmissions occurred until the UUT starts transmitting on another channel.

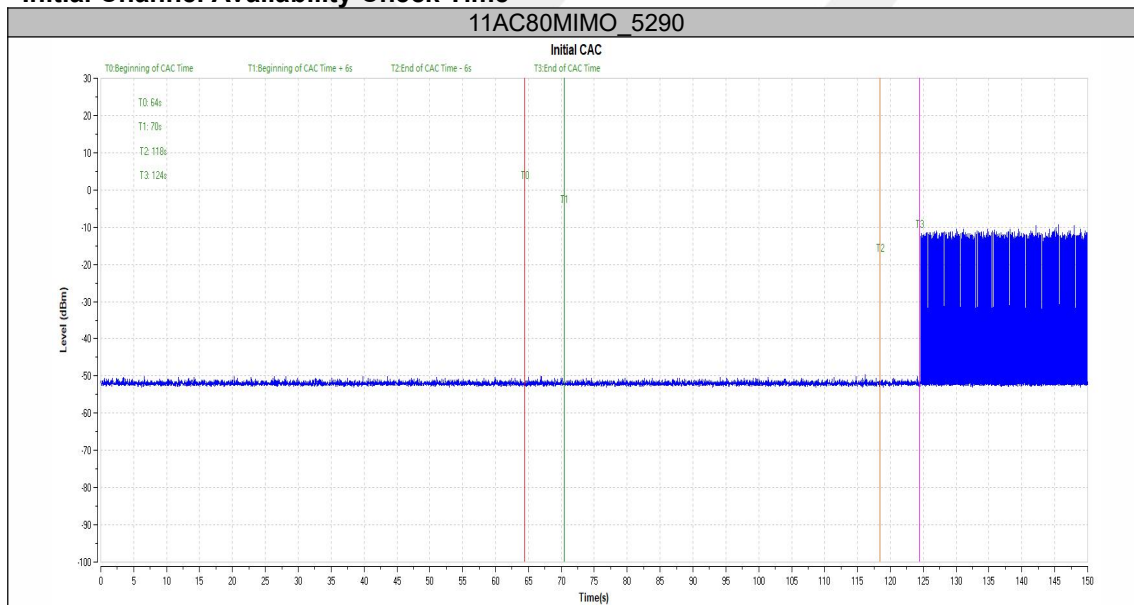
Channel Loading

TestMode	Frequency[MHz]	Result	Limit [%]	Verdict
11AC80MIMO	5290	49.23	17	PASS



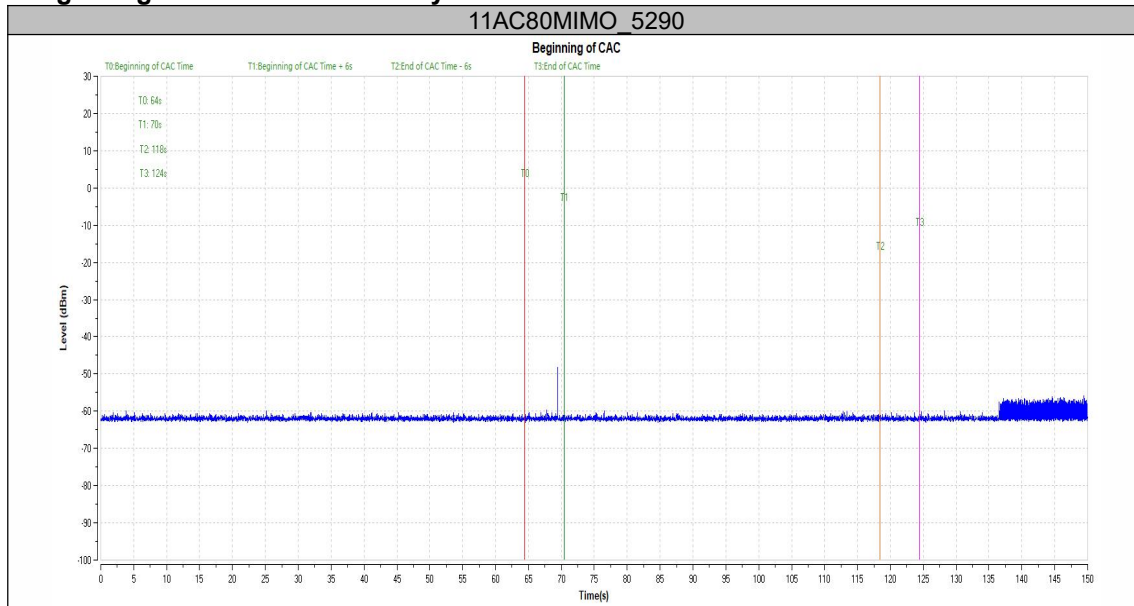
Note: All the modes are tested, only the worst data are described in the report.

Initial Channel Availability Check Time



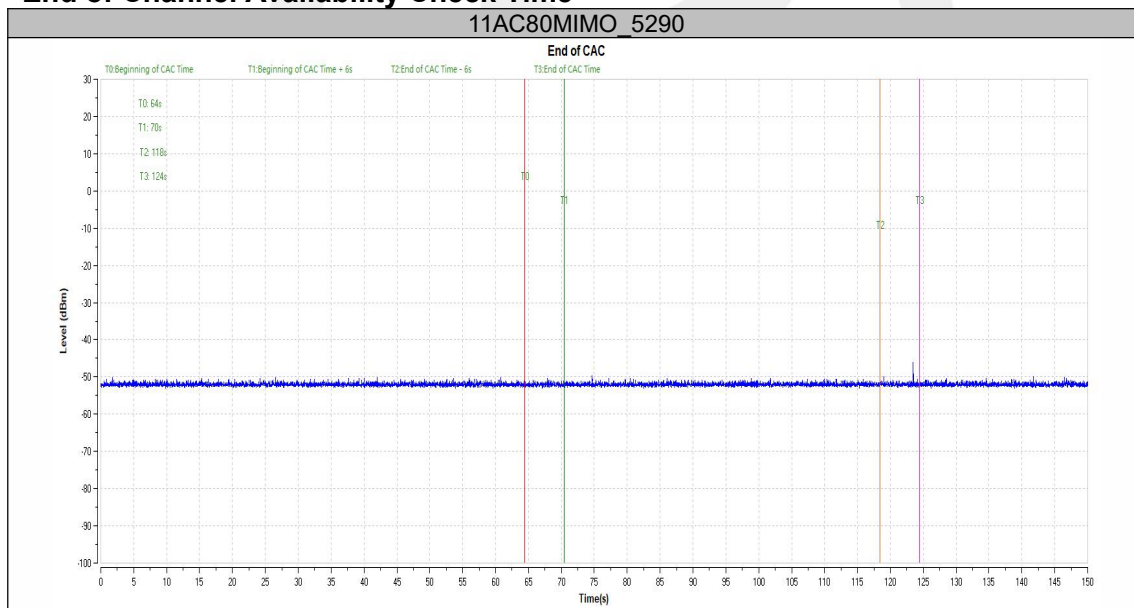
Note: All the modes are tested, only the worst data are described in the report.

Beginning of Channel Availability Check Time



Note: All the modes are tested, only the worst data are described in the report.

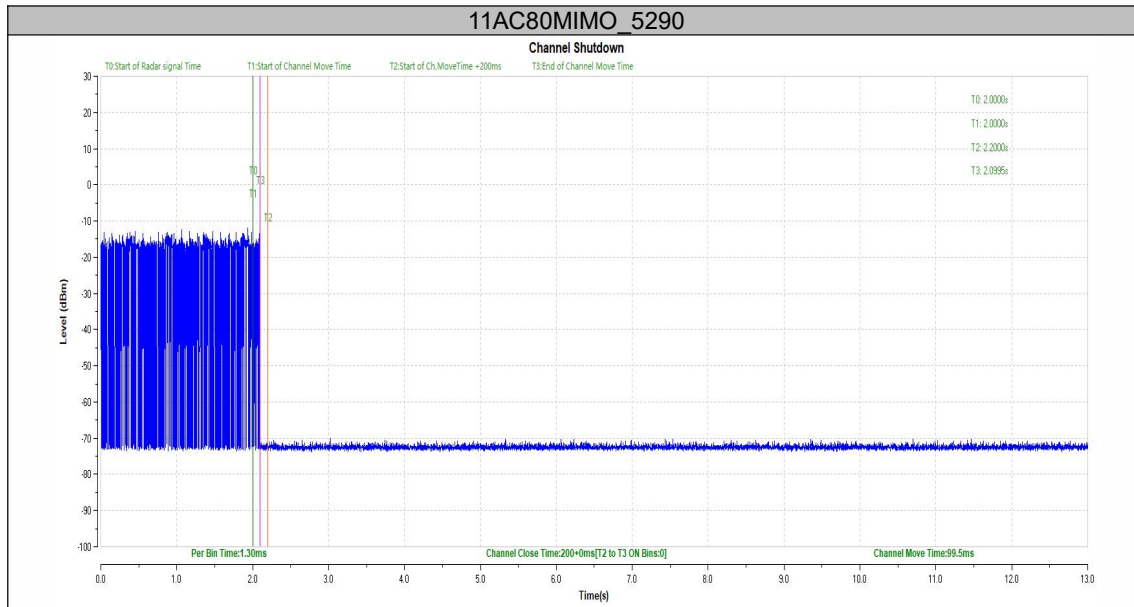
End of Channel Availability Check Time



Note: All the modes are tested, only the worst data are described in the report.

Channel Move Time and Channel Closing

TestMode	Frequency[MHz]	CCTT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AC80MIMO	5290	200+0	200+60	99.5	10000	PASS



Note: All the modes are tested, only the worst data are described in the report.

Statistical Performance check

TestMode	Frequency[MHz]	Radar Type	Pass Times	Fail Times	Probability (%)	Limit (%)	Verdict
11A	5260	Type1	28	2	93.33	60	PASS
		Type2	27	3	90.00	60	PASS
		Type3	29	1	96.67	60	PASS
		Type4	28	2	93.33	60	PASS
		Type 1-4	---	---	93.33	80	PASS
	5500	Type1	30	0	100.00	60	PASS
		Type2	29	1	96.67	60	PASS
		Type3	28	2	93.33	60	PASS
		Type4	29	1	96.67	60	PASS
		Type 1-4	---	---	96.67	80	PASS
11N40MIMO	5270	Type1	29	1	96.67	60	PASS
		Type2	29	1	96.67	60	PASS
		Type3	28	2	93.33	60	PASS
		Type4	29	1	96.67	60	PASS
		Type 1-4	---	---	95.84	80	PASS
	5510	Type1	29	1	96.67	60	PASS
		Type2	28	2	93.33	60	PASS
		Type3	28	2	93.33	60	PASS
		Type4	27	3	90.00	60	PASS
		Type 1-4	---	---	93.33	80	PASS
11AC80MIMO	5290	Type1	28	2	93.33	60	PASS
		Type2	28	2	93.33	60	PASS
		Type3	29	1	96.67	60	PASS
		Type4	29	1	96.67	60	PASS
		Type 1-4	---	---	95.00	80	PASS
		Type5	27	3	90.00	70	PASS
		Type6	28	2	93.33	80	PASS

TestMode	Frequency[MHz]	Radar Type	Trial ID	Detection
				(1: Yes; 0: No)
11A	5260	Type1	0	1
		Type1	1	1
		Type1	2	1
		Type1	3	1
		Type1	4	1
		Type1	5	1
		Type1	6	1
		Type1	7	1
		Type1	8	1
		Type1	9	1
		Type1	10	1
		Type1	11	1
		Type1	12	1
		Type1	13	1
		Type1	14	1
		Type1	15	0
		Type1	16	1
		Type1	17	1
		Type1	18	1
		Type1	19	1
		Type1	20	1
		Type1	21	1
		Type1	22	1
		Type1	23	1
		Type1	24	1
		Type1	25	0
		Type1	26	1
		Type1	27	1
		Type1	28	1
		Type1	29	1
		Type2	0	1
		Type2	1	1
		Type2	2	1
		Type2	3	1
		Type2	4	1
		Type2	5	1

	Type2	6	0
	Type2	7	1
	Type2	8	1
	Type2	9	1
	Type2	10	1
	Type2	11	1
	Type2	12	0
	Type2	13	1
	Type2	14	1
	Type2	15	1
	Type2	16	1
	Type2	17	1
	Type2	18	1
	Type2	19	1
	Type2	20	1
	Type2	21	1
	Type2	22	1
	Type2	23	1
	Type2	24	0
	Type2	25	1
	Type2	26	1
	Type2	27	1
	Type2	28	1
	Type2	29	1
	Type3	0	1
	Type3	1	1
	Type3	2	1
	Type3	3	1
	Type3	4	1
	Type3	5	1
	Type3	6	1
	Type3	7	1
	Type3	8	1
	Type3	9	1
	Type3	10	1
	Type3	11	1
	Type3	12	1
	Type3	13	1
	Type3	14	1

	Type3	15	0
	Type3	16	1
	Type3	17	1
	Type3	18	1
	Type3	19	1
	Type3	20	1
	Type3	21	1
	Type3	22	1
	Type3	23	1
	Type3	24	1
	Type3	25	1
	Type3	26	1
	Type3	27	1
	Type3	28	1
	Type3	29	1
	Type4	0	1
	Type4	1	1
	Type4	2	1
	Type4	3	1
	Type4	4	1
	Type4	5	1
	Type4	6	1
	Type4	7	1
	Type4	8	1
	Type4	9	0
	Type4	10	1
	Type4	11	1
	Type4	12	1
	Type4	13	1
	Type4	14	1
	Type4	15	1
	Type4	16	1
	Type4	17	1
	Type4	18	1
	Type4	19	1
	Type4	20	1
	Type4	21	1
	Type4	22	1
	Type4	23	1

5500	Type4	24	1
		25	0
		26	1
		27	1
		28	1
		29	1
	Type1	0	1
	Type1	1	1
	Type1	2	1
	Type1	3	1
	Type1	4	1
	Type1	5	1
	Type1	6	1
	Type1	7	1
	Type1	8	1
	Type1	9	1
	Type1	10	1
	Type1	11	1
	Type1	12	1
	Type1	13	1
	Type1	14	1
	Type1	15	1
	Type1	16	1
	Type1	17	1
	Type1	18	1
	Type1	19	1
	Type1	20	1
	Type1	21	1
	Type1	22	1
	Type1	23	1
	Type1	24	1
	Type1	25	1
	Type1	26	1
	Type1	27	1
	Type1	28	1
	Type1	29	1
	Type2	0	1
	Type2	1	1
	Type2	2	1

	Type2	3	1
	Type2	4	1
	Type2	5	1
	Type2	6	1
	Type2	7	1
	Type2	8	1
	Type2	9	1
	Type2	10	1
	Type2	11	1
	Type2	12	1
	Type2	13	1
	Type2	14	1
	Type2	15	1
	Type2	16	1
	Type2	17	1
	Type2	18	1
	Type2	19	1
	Type2	20	1
	Type2	21	0
	Type2	22	1
	Type2	23	1
	Type2	24	1
	Type2	25	1
	Type2	26	1
	Type2	27	1
	Type2	28	1
	Type2	29	1
	Type3	0	1
	Type3	1	1
	Type3	2	1
	Type3	3	1
	Type3	4	1
	Type3	5	1
	Type3	6	1
	Type3	7	1
	Type3	8	1
	Type3	9	1
	Type3	10	1
	Type3	11	1

	Type3	12	1
	Type3	13	1
	Type3	14	1
	Type3	15	1
	Type3	16	1
	Type3	17	1
	Type3	18	1
	Type3	19	0
	Type3	20	1
	Type3	21	1
	Type3	22	1
	Type3	23	1
	Type3	24	0
	Type3	25	1
	Type3	26	1
	Type3	27	1
	Type3	28	1
	Type3	29	1
	Type4	0	1
	Type4	1	1
	Type4	2	1
	Type4	3	1
	Type4	4	1
	Type4	5	1
	Type4	6	1
	Type4	7	1
	Type4	8	1
	Type4	9	1
	Type4	10	1
	Type4	11	1
	Type4	12	1
	Type4	13	1
	Type4	14	0
	Type4	15	1
	Type4	16	1
	Type4	17	1
	Type4	18	1
	Type4	19	1
	Type4	20	1

		Type4	21	1
		Type4	22	1
		Type4	23	1
		Type4	24	1
		Type4	25	1
		Type4	26	1
		Type4	27	1
		Type4	28	1
		Type4	29	1
11N40MIMO	5270	Type1	0	1
		Type1	1	1
		Type1	2	1
		Type1	3	1
		Type1	4	1
		Type1	5	1
		Type1	6	1
		Type1	7	1
		Type1	8	1
		Type1	9	1
		Type1	10	1
		Type1	11	1
		Type1	12	1
		Type1	13	1
		Type1	14	1
		Type1	15	1
		Type1	16	1
		Type1	17	1
		Type1	18	0
		Type1	19	1
		Type1	20	1
		Type1	21	1
		Type1	22	1
		Type1	23	1
		Type1	24	1
		Type1	25	1
		Type1	26	1
		Type1	27	1
		Type1	28	1
		Type1	29	1

	Type2	0	1
	Type2	1	1
	Type2	2	1
	Type2	3	1
	Type2	4	1
	Type2	5	1
	Type2	6	1
	Type2	7	1
	Type2	8	1
	Type2	9	1
	Type2	10	1
	Type2	11	1
	Type2	12	1
	Type2	13	1
	Type2	14	1
	Type2	15	1
	Type2	16	1
	Type2	17	1
	Type2	18	1
	Type2	19	1
	Type2	20	1
	Type2	21	1
	Type2	22	1
	Type2	23	1
	Type2	24	1
	Type2	25	0
	Type2	26	1
	Type2	27	1
	Type2	28	1
	Type2	29	1
	Type3	0	1
	Type3	1	1
	Type3	2	1
	Type3	3	1
	Type3	4	1
	Type3	5	1
	Type3	6	1
	Type3	7	1
	Type3	8	1

	Type3	9	1
	Type3	10	1
	Type3	11	1
	Type3	12	1
	Type3	13	1
	Type3	14	1
	Type3	15	1
	Type3	16	1
	Type3	17	1
	Type3	18	1
	Type3	19	1
	Type3	20	1
	Type3	21	0
	Type3	22	1
	Type3	23	1
	Type3	24	1
	Type3	25	1
	Type3	26	0
	Type3	27	1
	Type3	28	1
	Type3	29	1
	Type4	0	1
	Type4	1	1
	Type4	2	1
	Type4	3	1
	Type4	4	1
	Type4	5	1
	Type4	6	1
	Type4	7	1
	Type4	8	1
	Type4	9	1
	Type4	10	1
	Type4	11	1
	Type4	12	1
	Type4	13	1
	Type4	14	1
	Type4	15	1
	Type4	16	1
	Type4	17	0

		Type4	18	1
		Type4	19	1
		Type4	20	1
		Type4	21	1
		Type4	22	1
		Type4	23	1
		Type4	24	1
		Type4	25	1
		Type4	26	1
		Type4	27	1
		Type4	28	1
		Type4	29	1
	5510	Type1	0	1
		Type1	1	1
		Type1	2	1
		Type1	3	1
		Type1	4	1
		Type1	5	1
		Type1	6	1
		Type1	7	1
		Type1	8	1
		Type1	9	1
		Type1	10	1
		Type1	11	1
		Type1	12	1
		Type1	13	1
		Type1	14	1
		Type1	15	1
		Type1	16	1
		Type1	17	1
		Type1	18	1
		Type1	19	1
		Type1	20	1
		Type1	21	1
		Type1	22	1
		Type1	23	1
		Type1	24	1
		Type1	25	1
		Type1	26	1

	Type1	27	1
	Type1	28	0
	Type1	29	1
	Type2	0	1
	Type2	1	1
	Type2	2	1
	Type2	3	1
	Type2	4	1
	Type2	5	1
	Type2	6	1
	Type2	7	1
	Type2	8	1
	Type2	9	1
	Type2	10	1
	Type2	11	1
	Type2	12	1
	Type2	13	1
	Type2	14	1
	Type2	15	1
	Type2	16	1
	Type2	17	1
	Type2	18	1
	Type2	19	1
	Type2	20	0
	Type2	21	1
	Type2	22	1
	Type2	23	1
	Type2	24	1
	Type2	25	0
	Type2	26	1
	Type2	27	1
	Type2	28	1
	Type2	29	1
	Type3	0	1
	Type3	1	1
	Type3	2	1
	Type3	3	1
	Type3	4	1
	Type3	5	1

	Type3	6	1
	Type3	7	1
	Type3	8	0
	Type3	9	1
	Type3	10	1
	Type3	11	1
	Type3	12	1
	Type3	13	1
	Type3	14	1
	Type3	15	0
	Type3	16	1
	Type3	17	1
	Type3	18	1
	Type3	19	1
	Type3	20	1
	Type3	21	1
	Type3	22	1
	Type3	23	1
	Type3	24	1
	Type3	25	1
	Type3	26	1
	Type3	27	1
	Type3	28	1
	Type3	29	1
	Type4	0	1
	Type4	1	1
	Type4	2	1
	Type4	3	1
	Type4	4	1
	Type4	5	1
	Type4	6	1
	Type4	7	1
	Type4	8	1
	Type4	9	1
	Type4	10	1
	Type4	11	1
	Type4	12	1
	Type4	13	1
	Type4	14	0

		Type4	15	1
		Type4	16	1
		Type4	17	1
		Type4	18	1
		Type4	19	1
		Type4	20	1
		Type4	21	1
		Type4	22	1
		Type4	23	0
		Type4	24	1
		Type4	25	1
		Type4	26	0
		Type4	27	1
		Type4	28	1
		Type4	29	1
11AC80MIMO	5290	Type1	0	1
		Type1	1	1
		Type1	2	1
		Type1	3	1
		Type1	4	1
		Type1	5	1
		Type1	6	1
		Type1	7	1
		Type1	8	1
		Type1	9	1
		Type1	10	0
		Type1	11	1
		Type1	12	1
		Type1	13	1
		Type1	14	1
		Type1	15	1
		Type1	16	1
		Type1	17	1
		Type1	18	1
		Type1	19	1
		Type1	20	1
		Type1	21	0
		Type1	22	1
		Type1	23	1

	Type1	24	1
	Type1	25	1
	Type1	26	1
	Type1	27	1
	Type1	28	1
	Type1	29	1
	Type2	0	1
	Type2	1	1
	Type2	2	1
	Type2	3	1
	Type2	4	1
	Type2	5	1
	Type2	6	0
	Type2	7	1
	Type2	8	1
	Type2	9	1
	Type2	10	1
	Type2	11	1
	Type2	12	1
	Type2	13	1
	Type2	14	1
	Type2	15	0
	Type2	16	1
	Type2	17	1
	Type2	18	1
	Type2	19	1
	Type2	20	1
	Type2	21	1
	Type2	22	1
	Type2	23	1
	Type2	24	1
	Type2	25	1
	Type2	26	1
	Type2	27	1
	Type2	28	1
	Type2	29	1
	Type3	0	1
	Type3	1	1
	Type3	2	1

	Type3	3	1
	Type3	4	1
	Type3	5	1
	Type3	6	1
	Type3	7	1
	Type3	8	0
	Type3	9	1
	Type3	10	1
	Type3	11	1
	Type3	12	1
	Type3	13	1
	Type3	14	1
	Type3	15	1
	Type3	16	1
	Type3	17	1
	Type3	18	1
	Type3	19	1
	Type3	20	1
	Type3	21	1
	Type3	22	1
	Type3	23	1
	Type3	24	1
	Type3	25	1
	Type3	26	1
	Type3	27	1
	Type3	28	1
	Type3	29	1
	Type4	0	1
	Type4	1	1
	Type4	2	1
	Type4	3	1
	Type4	4	1
	Type4	5	1
	Type4	6	1
	Type4	7	1
	Type4	8	1
	Type4	9	1
	Type4	10	1
	Type4	11	1

	Type4	12	1
	Type4	13	1
	Type4	14	1
	Type4	15	0
	Type4	16	1
	Type4	17	1
	Type4	18	1
	Type4	19	1
	Type4	20	1
	Type4	21	1
	Type4	22	1
	Type4	23	1
	Type4	24	1
	Type4	25	1
	Type4	26	1
	Type4	27	1
	Type4	28	1
	Type4	29	1

TestMode	Frequency[MHz]	Radar Type	Trial ID	Detection (1: Yes; 0: No)
11AC80MIMO	5290	Type5	0	1
		Type5	1	1
		Type5	2	1
		Type5	3	1
		Type5	4	1
		Type5	5	1
		Type5	6	1
		Type5	7	1
		Type5	8	1
		Type5	9	1
		Type5	10	1
		Type5	11	1
		Type5	12	1
		Type5	13	0
		Type5	14	1
		Type5	15	1
		Type5	16	1
		Type5	17	1
		Type5	18	1
		Type5	19	1
		Type5	20	0
		Type5	21	1
		Type5	22	1
		Type5	23	1
		Type5	24	1
		Type5	25	0
		Type5	26	1
		Type5	27	1
		Type5	28	1
		Type5	29	1

Note: All the modes are tested, only the worst data are described in the report.

TestMode	Frequency[MHz]	Radar Type	Trial ID	Detection (1: Yes; 0: No)
11AC80MIMO	5290	Type6	0	1
		Type6	1	1
		Type6	2	1
		Type6	3	1
		Type6	4	1
		Type6	5	1
		Type6	6	1
		Type6	7	1
		Type6	8	1
		Type6	9	1
		Type6	10	0
		Type6	11	1
		Type6	12	1
		Type6	13	1
		Type6	14	1
		Type6	15	1
		Type6	16	1
		Type6	17	1
		Type6	18	1
		Type6	19	1
		Type6	20	1
		Type6	21	1
		Type6	22	1
		Type6	23	1
		Type6	24	0
		Type6	25	1
		Type6	26	1
		Type6	27	1
		Type6	28	1
		Type6	29	1

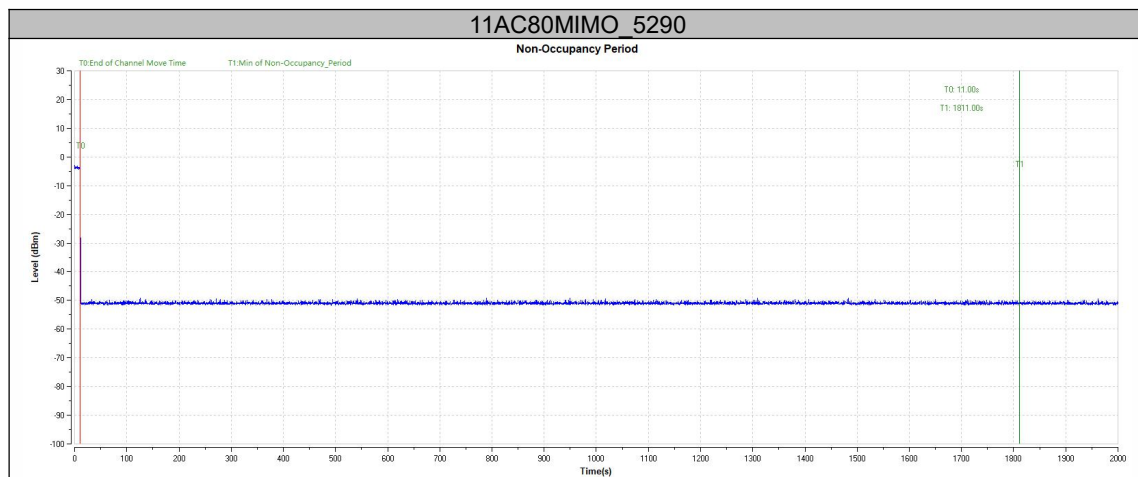
Note:

All the modes are tested, only the worst data are described in the report.

The detailed parameters of the radar signal can be found in the local corresponding table file(in the software local folder DFS_Wave List).

7.3 NON- OCCUPANCY PERIOD

During the 30 minutes observation time, UUT did not make any transmissions on a channel after a radar signal was detected on that channel by either the Channel Availability Check or the In-Service Monitoring.



Note: All the modes are tested, only the worst data are described in the report.

7.4 UNIFORM SPREADING

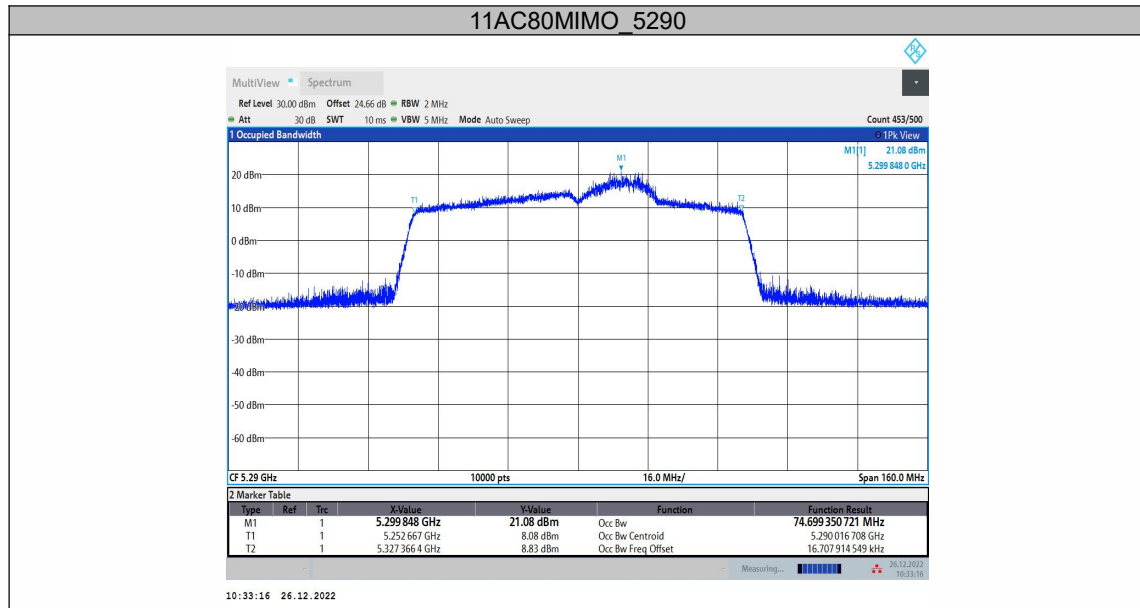
The intention of the uniform spreading is to provide, on aggregate, a uniform loading of the spectrum. The UUT using the bands 5250 to 5350MHz and 5470 to 5600 MHz channels so that the probability of electing a given channel shall be the same for channels. The UUT will select channel by random mode and remember this channel when detect radar signal, so that will select unused channel by random mode.

7.5 U-NII DETECTION BANDWIDTH

TestMode	Frequency[MHz]	FL[MHz]	FH[MHz]	Detection Bandwidth [MHz]	OCB [MHz]	Ratio [%]	Limit [%]	Verdict
11A	5260	5250	5270	20	17.224	116.12	≥100	PASS
	5500	5490	5510	20	17.226	116.10	≥100	PASS
11N40MIMO	5270	5249	5291	42	36.305	115.69	≥100	PASS
	5510	5489	5531	42	36.265	115.81	≥100	PASS
11AC80MIMO	5290	5249	5331	82	74.699	109.77	≥100	PASS

Test Mode	Frequency[MHz]	Radar Freq.	Trial 1	Trial 2	Trial 3	Trial 4	Trial 5	Trial 6	Trial 7	Trial 8	Trial 9	Trial 10	Ratio (%)
11A	5260	5249	1	1	1	1	1	0	0	1	1	1	80
		5250	1	1	1	0	1	1	1	1	1	1	90
		5255	1	1	1	1	1	1	0	1	1	1	90
		5260	1	1	1	1	1	1	1	1	1	1	100
		5265	1	1	1	1	1	1	1	1	1	1	100
		5270	1	1	1	1	1	1	1	0	1	1	90
		5271	1	1	1	1	1	0	1	0	1	1	80
	5500	5489	1	1	1	0	1	1	1	1	1	0	80
		5490	1	1	0	1	1	1	1	1	1	1	90
		5495	1	1	1	1	1	1	1	1	1	1	100
		5500	1	1	1	1	1	1	1	1	1	1	100
		5505	1	1	1	1	1	1	1	1	1	1	100
		5510	1	1	1	1	1	1	0	1	1	1	90
		5511	1	1	1	0	1	1	0	1	1	1	80

11N40MI MO	5270	5248	1	0	1	1	1	1	0	1	1	1	80
		5249	1	1	1	1	1	0	1	1	1	1	90
		5250	1	1	1	1	1	1	1	1	0	1	90
		5255	1	1	0	1	1	1	1	1	1	1	90
		5260	1	1	1	1	1	1	1	1	1	1	100
		5265	1	1	1	1	1	1	1	1	1	1	100
		5270	1	1	1	1	1	1	1	1	1	1	100
		5275	1	1	1	1	1	1	1	1	1	1	100
		5280	1	1	1	1	1	1	1	1	1	1	100
		5285	1	1	1	1	1	1	1	0	1	1	90
		5290	1	1	1	1	0	1	1	1	1	1	90
		5291	1	1	0	1	1	1	1	1	1	1	90
		5292	1	1	0	1	1	1	1	0	1	1	80
	5510	5488	1	0	1	1	1	1	1	0	1	1	80
		5489	1	1	1	1	1	0	1	1	1	1	90
		5490	1	1	1	1	1	0	1	1	1	1	90
		5495	1	1	1	0	1	1	1	1	1	1	90
		5500	1	1	1	1	1	1	1	1	1	1	100
		5505	1	1	1	1	1	1	1	1	1	1	100
		5510	1	1	1	1	1	1	1	1	1	1	100
		5515	1	1	1	1	1	1	1	1	1	1	100
		5520	1	1	1	1	1	1	1	1	1	1	100
		5525	1	1	1	1	1	0	1	1	1	1	90
		5530	1	0	1	1	1	1	1	1	1	1	90
		5531	1	1	1	1	1	1	0	1	1	1	90
		5532	1	1	0	1	1	0	1	1	1	1	80
11AC80M IMO	5290	5248	1	1	1	0	1	1	1	0	1	1	80
		5249	1	1	1	1	1	0	1	1	1	1	90
		5250	1	1	1	1	0	1	1	1	1	1	90
		5255	1	1	1	1	0	1	1	1	1	1	90
		5260	1	1	1	1	1	1	1	1	1	1	100
		5265	1	1	1	1	1	1	1	1	1	1	100
		5270	1	1	1	1	1	1	1	1	1	1	100
		5275	1	1	1	1	1	1	1	1	1	1	100
		5280	1	1	1	1	1	1	1	1	1	1	100
		5285	1	1	1	1	1	1	1	1	1	1	100
		5290	1	1	1	1	1	1	1	1	1	1	100
		5295	1	1	1	1	1	1	1	1	1	1	100
		5300	1	1	1	1	1	1	1	1	1	1	100
		5305	1	1	1	1	1	1	1	1	1	1	100
		5310	1	1	1	1	1	1	1	1	1	1	100
		5315	1	1	1	1	1	1	1	1	1	1	100
		5320	1	1	1	1	1	0	1	1	1	1	90
		5325	1	1	1	1	1	0	1	1	1	1	90
		5330	1	1	1	0	1	1	1	1	1	1	90
		5331	1	1	1	0	1	1	1	1	1	1	90
		5332	1	0	1	1	1	1	0	1	1	1	80



Note: All the modes are tested, only the worst data are described in the report.

--- End of Report ---