

**WUHAN HAHA CONVENIENCE TECHNOLOGY
CO., LTD**

RF TEST REPORT

Report Type:

FCC Part 15.407 & ISSED RSS-247 RF report

Model:

Max 620S, Cooler 620S, Max 620, Cooler 620, Max 660,
Cooler 660, Max 660S, Cooler 660S, Plus 440, Cooler 440,
Freezer 550, Cooler 550

REPORT NUMBER:

2601B0310SHA-003

ISSUE DATE:

May 26, 2026

DOCUMENT CONTROL NUMBER:

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TEST REPORT

Telephone: 86 21 6127 8200
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Report no.: 2601B0310SHA-003

Applicant: WUHAN HAHA CONVENIENCE TECHNOLOGY CO., LTD
Room 301, Building A, Wanqili Science and Innovation Center No. 8, East
Lake High-Tech Development Zone, Wuhan City, Hubei Province, China

Manufacturer: WUHAN HAHA CONVENIENCE TECHNOLOGY CO., LTD
Room 301, Building A, Wanqili Science and Innovation Center No. 8, East
Lake High-Tech Development Zone, Wuhan City, Hubei Province, China

Product Name (PMN): AI Vending Machine
Type/Model (HVIN): Max 620S, Cooler 620S, Max 620, Cooler 620, Max 660,
Cooler 660, Max 660S, Cooler 660S, Plus 440, Cooler 440,
Freezer 550, Cooler 550

FCC ID: 2BUXP-HH-US-001
IC: 35194-HHUS001

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:
47CFR Part 15 (2024): Radio Frequency Devices
RSS-247 Issue 4 (July 2025): Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices
KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02: Compliance Measurement Procedures for Unlicensed-National Information Infrastructure Devices Operating In The 5250-5350 MHz and 5470-5725 MHz Bands Incorporating Dynamic Frequency Selection

PREPARED BY:	REVIEWED BY:
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Alexander Li



Project Engineer
Alexander Li

Reviewer
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TEST REPORT

Content

REVISION HISTORY.....	5
MEASUREMENT RESULT SUMMARY	6
1 GENERAL INFORMATION	7
1.1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)	7
1.2 RF TECHNICAL INFORMATION	8
1.3 DESCRIPTION OF TEST FACILITY.....	9
2 TEST SPECIFICATIONS.....	10
2.1 STANDARDS OR SPECIFICATION	10
2.2 MODE OF OPERATION DURING THE TEST	10
2.3 TEST SOFTWARE	10
2.4 TEST PERIPHERALS LIST.....	10
2.5 INSTRUMENT LIST	11
3 DFS TECHNICAL REQUIREMENTS.....	12
3.1 DFS OVERVIEW	12
4 DFS DETECTION THRESHOLDS AND RADAR TEST WAVEFORMS.....	13
4.1 INTERFERENCE THRESHOLD VALUES	13
4.2 DFS RESPONSE REQUIREMENT VALUES.....	13
4.3 RADAR TEST WAVEFORMS MINIMUM STEP	14
4.4 SHORT PULSE RADAR TEST WAVEFORMS.....	14
4.5 LONG PULSE RADAR TEST WAVEFORM	16
4.6 FREQUENCY HOPPING RADAR TEST WAVEFORM	17
4.7 CALIBRATION SETUP.....	18
4.8 RADAR WAVEFORM CALIBRATION PROCEDURE.....	20
4.9 RADAR WAVEFORM CALIBRATION RESULT	22
5 TEST CASE RESULTS.....	29
5.1 TEST SETUP	29
5.2 TEST SETUP OPERATION.....	30
5.3 INITIAL CHANNEL AVAILABILITY CHECK TIME MEASUREMENT	30
5.3.1 <i>Limit</i>	30
5.3.2 <i>Test Procedures</i>	30
5.3.3 <i>Test Result</i>	31
5.4 RADAR BURST AT THE BEGINNING OF THE CAC TIME MEASUREMENT	32
5.4.1 <i>Limit</i>	32
5.4.2 <i>Test Procedures</i>	32
5.4.3 <i>Test Result</i>	33
5.5 RADAR BURST AT THE END OF THE CAC TIME MEASUREMENT	34
5.5.1 <i>Limit</i>	34
5.5.2 <i>Test Procedures</i>	34
5.5.3 <i>Test Result</i>	35
5.6 MOVE TIME, CLOSING TIME, NON-OCCUPANCY PERIOD MEASUREMENT	36
5.6.1 <i>Limit</i>	36
5.6.2 <i>Test Procedures</i>	36
5.6.3 <i>Test Result</i>	37
5.7 UNII DETECTION BANDWIDTH MEASUREMENT.....	39
5.7.1 <i>Limit</i>	39
5.7.2 <i>Test Procedures</i>	39

TEST REPORT

5.7.3	Test Result	40
5.8	STATISTICAL PERFORMANCE CHECK MEASUREMENT	43
5.8.1	Limit	43
5.8.2	Test Procedures	43
5.8.3	Test Result	44

Revision History

Report No.	Version	Description	Issued Date
2601B0310SHA-003	Rev. 01	Initial issue of report	May 26, 2026

Measurement result summary

Test item	FCC CLAUSE	IC CLAUSE	TEST RESULT
Initial Channel Availability Check Time	15.407 (h)(2)	RSS247 clause 7.3.6	Pass
Radar Burst at the Beginning of the Channel Availability Check & End of the Channel Availability Check Time	15.407 (h)(2)	RSS247 clause 7.3.6	Pass
Channel Move Time, Channel Closing Time	15.407 (h)(2)	RSS247 clause 7.3.6	Pass
Non-occupancy period	15.407 (h)(2)	RSS247 clause 7.3.6	Pass
UNII Detection Bandwidth Measurement	15.407 (h)(2)	RSS247 clause 7.3.6	Pass
Statistical Performance Check	15.407 (h)(2)	RSS247 clause 7.3.6	Pass

Notes:

- 1: NA =Not Applicable
- 2: Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.
- 3: Additions, Deviations and Exclusions from Standards: None.

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	AI Vending Machine
Model name:	Max 620S, Cooler 620S, Max 620, Cooler 620, Max 660, Cooler 660, Max 660S, Cooler 660S, Plus 440, Cooler 440, Freeze 550, Cooler 550
Description of EUT:	The EUT is the AI Vending Machine, it supports 2.4GHz and 5GHz WIFI function, it also contains LTE module, FCC ID: XMR201706SC20A, IC: 10224A-201707SC20A. All models share the same wireless module. Plus 440 and Cooler 440 are identical except model name. Freezer 550 and Cooler 550 are identical except model name. Max 620S, Cooler 620S, Max 620, Cooler 620, Max 660, Cooler 660, Max 660S and Cooler 660S are identical except model name. After review, model Cooler 440 was selected to perform all tests.
Rating:	Plus 440, Cooler 440: 110-120V/60Hz, 2.9A Freezer 550, Cooler 550: 110-120V/60Hz, 6A Max 620S, Cooler 620S, Max 620, Cooler 620, Max 660, Cooler 660, Max 660S, Cooler 660S: 110-120V/60Hz, 2.85A
Brand Name:	/
EUT type:	☐ Table top ☒ Floor standing
Software Version:	/
Hardware Version:	/
Sample Identification No.:	A251209-55-001, A251209-55-002, A251209-55-003,
Sample received date:	December 9, 2025
Date of test:	December 9, 2025 to May 26, 2026

TEST REPORT

1.2 RF Technical Information

Specification Items	Description
Protocol	802.11a/n20/n40/ac20/ac40/ac80
Modulation	BPSK / QPSK / 16QAM / 64QAM / 256QAM
Channel Frequency	5250-5350; 5470-5725MHz
Channel Bandwidth	20/40/80MHz
Weather Band (5600~5650MHz) for IC	☐ Yes ☒ No
Max. EIRP Power	☒ < 200mW ☐ ≥ 200mW
Operating Mode	☒ Master ☐ Slave
Antenna	2*2 MIMO
Manufacturer Statement	Manufacturer statement confirming that information regarding the parameters of the detected Radar Waveforms are not available to the end user.

1.3 Description of Test Facility

Name:	Intertek Testing Services (Shanghai FTZ) Co., Ltd
Address:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L21189
	FCC Accredited Lab Designation Number: CN0175
	IC Registration Lab CAB identifier.: CN0014
	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252
	A2LA Accreditation Lab Certificate Number: 3309.02

2 TEST SPECIFICATIONS

2.1 Standards or specification

47CFR Part 15 (2024): Radio Frequency Devices

RSS-247 Issue 4 (July 2025): Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices

KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02: Compliance Measurement Procedures for Unlicensed-National Information Infrastructure Devices Operating In The 5250-5350 MHz and 5470-5725 MHz Bands Incorporating Dynamic Frequency Selection

2.2 Mode of operation during the test

Stream the channel loading test file from the Master Device to the Client Device on the test Channel for the entire period of the test if necessary.

2.3 Test software

Item No.	Name	Description
1	Iperf3	Used to stream the channel loading
2	Putty	Used to detect Radar signal
3	DFS Tool	DFS Test Software

2.4 Test peripherals list

Item No.	Name	Band and Model	Description
1	Laptop computer	DELL, 5480	--
2	Laptop computer	DELL, P137G	--

2.5 Instrument list

RF test					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
☒	PXA Signal Analyzer	Keysight	N9030A	EC 5338	2026-05-25
☒	Vector Signal Generator	Agilent	N5182B	EC 5175	2027-03-11
☒	Universal Radio Communication Tester	R&S	CMW500	EC5944	2027-03-11
☒	MXG Analog Signal Generator	Agilent	N5181A	EC 5338-2	2027-03-11
☐	Mobile Test System	Litepoint	lqxel	EC 5176	2027-01-09
☐	Test Receiver	R&S	ESCI 7	EC 4501	2027-03-04
☐	Climate chamber	GWS	MT3065	EC 6021	2027-03-07
☐	Spectrum Analyzer	Keysight	N9030B	EC 6078	2027-03-25
☐	Universal Radio Communication Tester	R&S	CMW500	EC 6209	2027-01-14
☐	Signal generator	Agilent	N5182A	EC 6172	2026-08-05
☐	Signal generator	Agilent	N5181A	EC 6171	2026-08-05
Additional instrument					
Used	Equipment	Manufacturer	Type	Internal no.	Due date
☒	Thermo-Hygrograph	Testo	175h1	EC 6640	2026-08-03
☒	Pressure meter	YM3	Shanghai Mengde	EC 3320	2026-08-04

3 DFS Technical Requirements

3.1 DFS Overview

A U-NII network will employ a DFS function to detect signals from radar systems and to avoid co-channel operation with these systems. This applies to the 5250-5350 MHz and/or 5470-5725 MHz bands.

Within the context of the operation of the DFS function, a U-NII device will operate in either *Master Mode* or *Client Mode*. U-NII devices operating in *Client Mode* can only operate in a network controlled by a UNII device operating in *Master Mode*.

Table 1: 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
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

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

Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required
Note: Frequencies selected for statistical performance check (Section 7.8.4) should include Several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.		

4 DFS Detection Thresholds and Radar Test Waveforms

Test result: Pass

4.1 Interference Threshold values

Maximum Transmit Power	Value (see note)
EIRP $\geq$ 200 mW	-64 dBm
EIRP < 200 mW and PSD < 10dBm/MHz	-62 dBm
EIRP < 200 mW that do not meet the PSD requirement	-64 dBm
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. Note 3: EIRP is based on the highest antenna gain, for MIMO devices refer to KDB Publication 662911 D01.	

4.2 DFS Response requirement values

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

TEST REPORT

4.3 Radar Test Waveforms Minimum Step

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

4.4 Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μs)	PRI (μs)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1a	1	15 unique PRI values randomly selected from the list of 23 PRI values in Note 2	Roundup $\{(1/360) \cdot (19 \cdot 10^6 / \text{PRI})\}$	60%	30
1b		15 unique PRI values randomly selected within the range of 518-3066μsec, with a minimum increment of 1 μsec, excluding PRI values selected in radar type 1a			
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.					

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B. For example if in Short Pulse Radar Type 1 Test B a PRI of 3066us is selected, the number of pulses would be

$$\text{Roundup} \left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{3066} \right) \right\} = \text{Roundup} \{17.2\} = 18.$$

TEST REPORT

Table 5a - Pulse Repetition Intervals Values for Test A

Pulse Repetition Frequency No	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (us)
1	1930.5	518
2	1858.7	538
3	1792.1	558
4	1730.1	578
5	1672.2	598
6	1618.1	618
7	1567.4	638
8	1519.8	658
9	1474.9	678
10	1432.7	698
11	1392.8	718
12	1355	738
13	1319.3	758
14	1285.3	778
15	1253.1	798
16	1222.5	818
17	1193.3	838
18	1165.6	858
19	1139	878
20	1113.6	898
21	1089.3	918
22	1066.1	938
23	326.2	3066

The aggregate is the average of the percentage of successful detections of Short Pulse Radar Types 1-4. For example, the following table indicates how to compute the aggregate of percentage of successful detections.

Radar Type	Number of Trials	Number of Successful Detections	Minimum Percentage of Successful Detection
1	35	29	82.9%
2	30	18	60.0%
3	30	27	90.0%
4	50	44	88.0%
Aggregate $(82.9\% + 60\% + 90\% + 88\%)/4 = 80.2\%$			

4.5 Long Pulse Radar Test Waveform

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

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

Each waveform is defined as follows:

- 1) The transmission period for the Long Pulse Radar test signal is 12 seconds.
- 2) There are a total of 8 to 20 *Bursts* in the 12 second period, with the number of *Bursts* being randomly chosen. This number is *Burst_Count*.
- 3) Each *Burst* consists of 1 to 3 pulses, with the number of pulses being randomly chosen. Each *Burst* within the 12 second sequence may have a different number of pulses.
- 4) The pulse width is between 50 and 100 microseconds, with the pulse width being randomly chosen. Each pulse within a *Burst* will have the same pulse width. Pulses in different *Bursts* may have different pulse widths.
- 5) Each pulse has a linear frequency modulated chirp between 5 and 20 MHz, with the chirp width being randomly chosen. Each pulse within a *Burst* will have the same chirp width. Pulses in different *Bursts* may have different chirp widths. The chirp is centered on the pulse. For example, with a radar frequency of 5300 MHz and a 20 MHz chirped signal, the chirp starts at 5290 MHz and ends at 5310 MHz.
- 6) If more than one pulse is present in a *Burst*, the time between the pulses will be between 1000 and 2000 microseconds, with the time being randomly chosen. If three pulses are present in a *Burst*, the random time interval between the first and second pulses is chosen independently of the random time interval between the second and third pulses.
- 7) The 12 second transmission period is divided into even intervals. The number of intervals is equal to *Burst_Count*. Each interval is of length $(12,000,000 / \text{Burst_Count})$ microseconds. Each interval contains one *Burst*. The start time for the *Burst*, relative to the beginning of the interval, is between 1 and $[(12,000,000 / \text{Burst_Count}) - (\text{Total Burst Length}) + (\text{One Random PRI Interval})]$ microseconds, with the start time being randomly chosen. The step interval for the start time is 1 microsecond. The start time for each *Burst* is chosen randomly.

A representative example of a Long Pulse Radar Type waveform:

- 1) The total test waveform length is 12 seconds.
- 2) Eight (8) *Bursts* are randomly generated for the *Burst_Count*.
- 3) *Burst* 1 has 2 randomly generated pulses.
- 4) The pulse width (for both pulses) is randomly selected to be 75 microseconds.
- 5) The PRI is randomly selected to be at 1213 microseconds.
- 6) *Bursts* 2 through 8 are generated using steps 3 – 5.

TEST REPORT

7) Each *Burst* is contained in even intervals of 1,500,000 microseconds. The starting location for Pulse 1, *Burst* 1 is randomly generated (1 to 1,500,000 minus the total *Burst* 1 length + 1 random PRI interval) at the 325,001 microsecond step. *Bursts* 2 through 8 randomly fall in successive 1,500,000 microsecond intervals (i.e. *Burst* 2 falls in the 1,500,001 – 3,000,000 microsecond range).

4.6 Frequency Hopping Radar Test Waveform

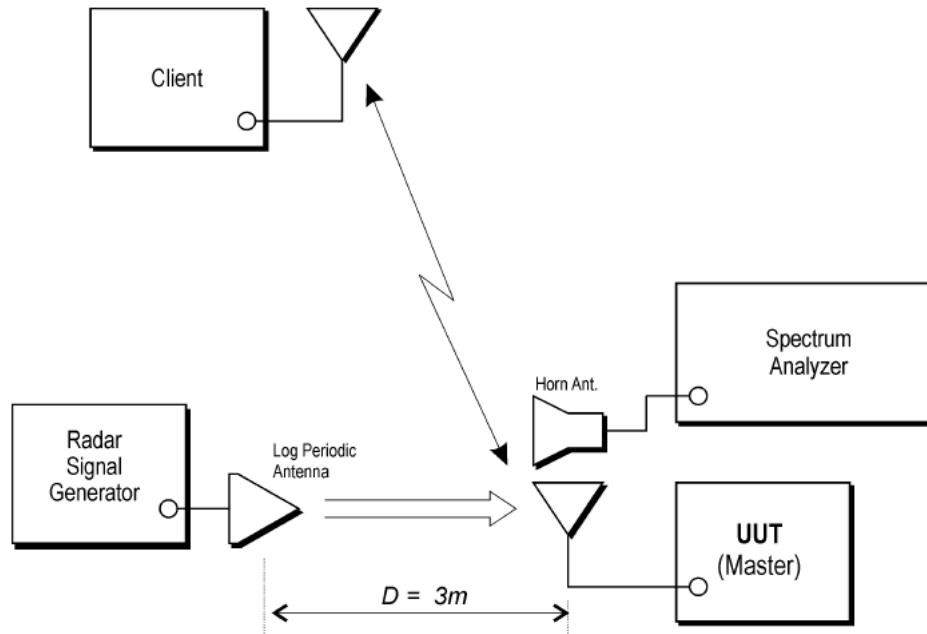
Radar Type	Pulse Width (μs)	PRI (μs)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30

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

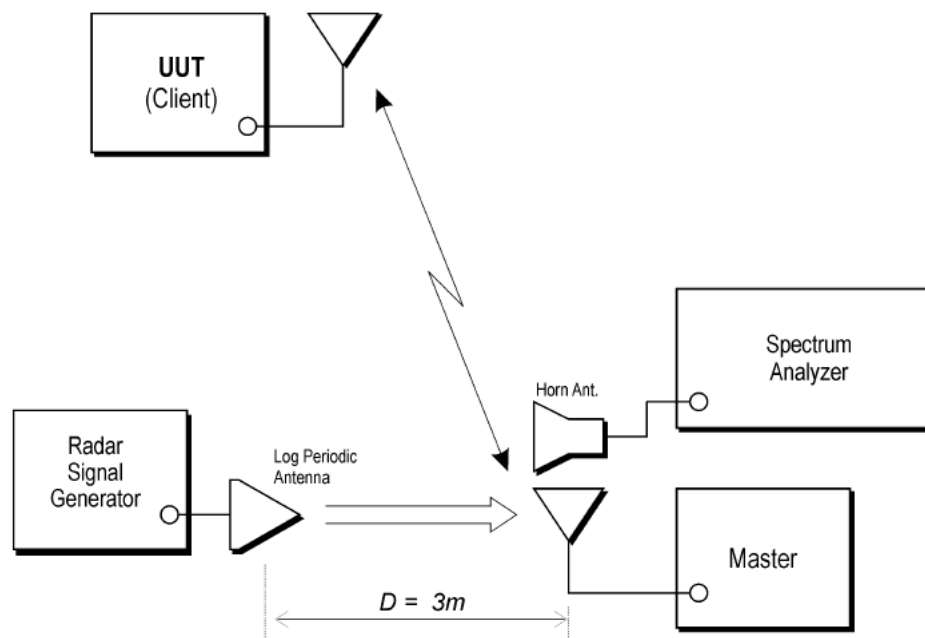
The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250 – 5724MHz. Next, the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues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

4.7 Calibration Setup

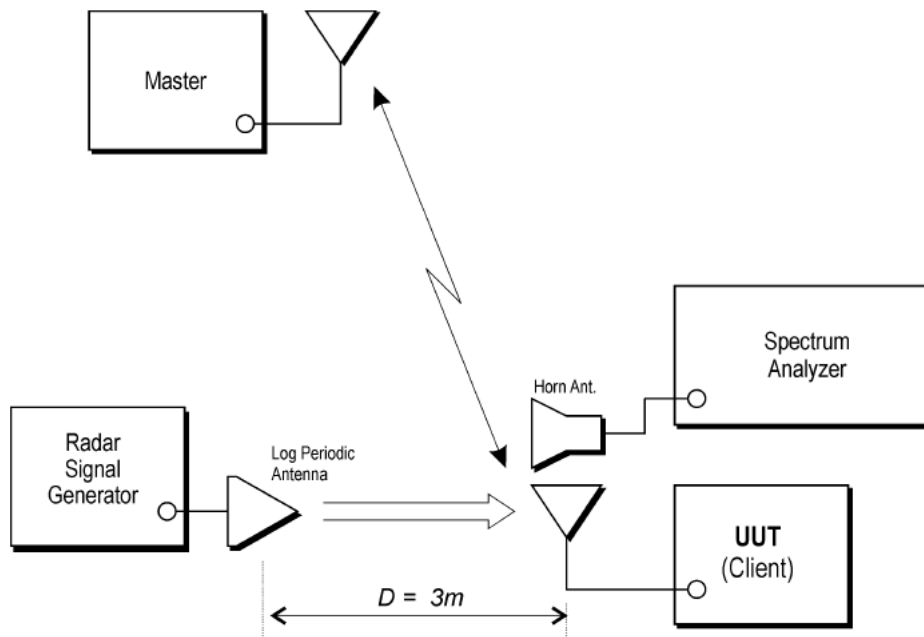
☐ Radiated Method



Example Radiated Setup where UUT is a Master and Radar Test Waveforms are injected into the Master

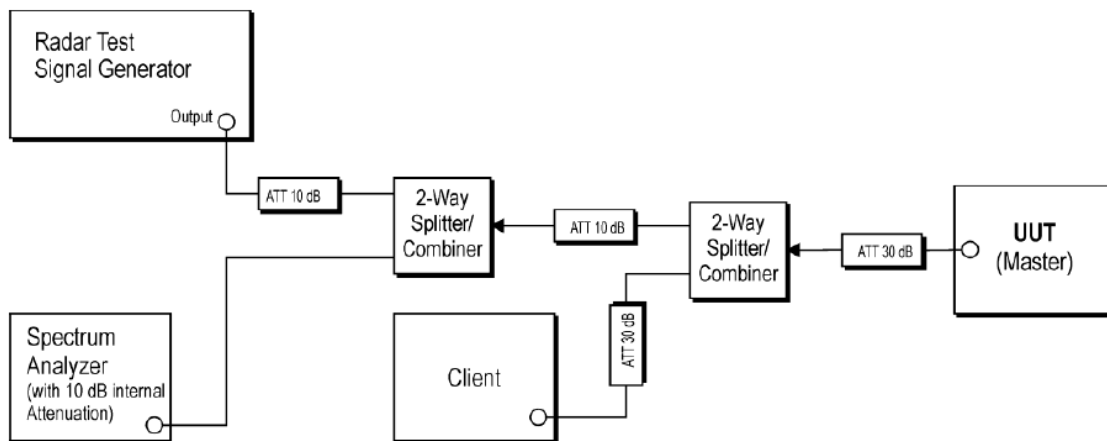


Example Radiated Setup where UUT is a Client and Radar Test Waveforms are injected into the Master



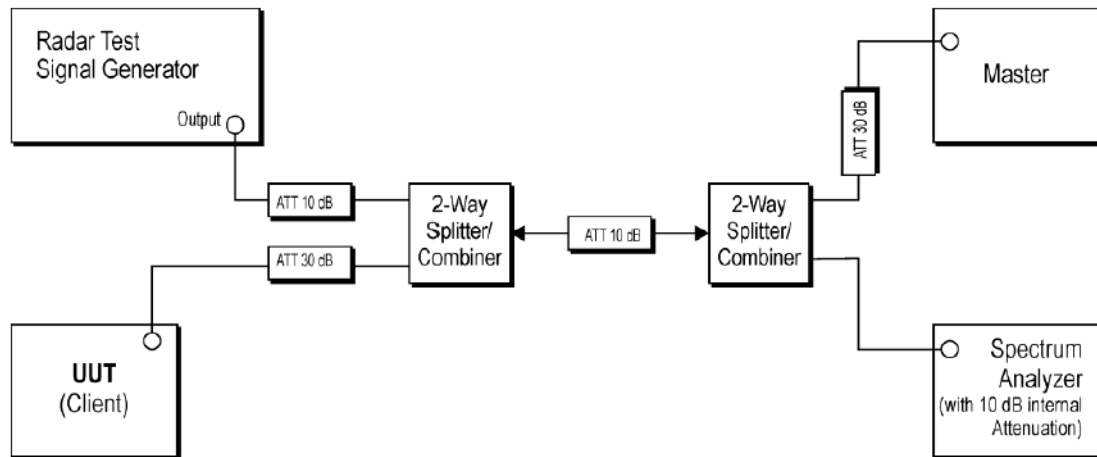
Example Radiated Setup where UUT is a Client and radar Test Waveforms are injected into the Client

☒ Conducted Method

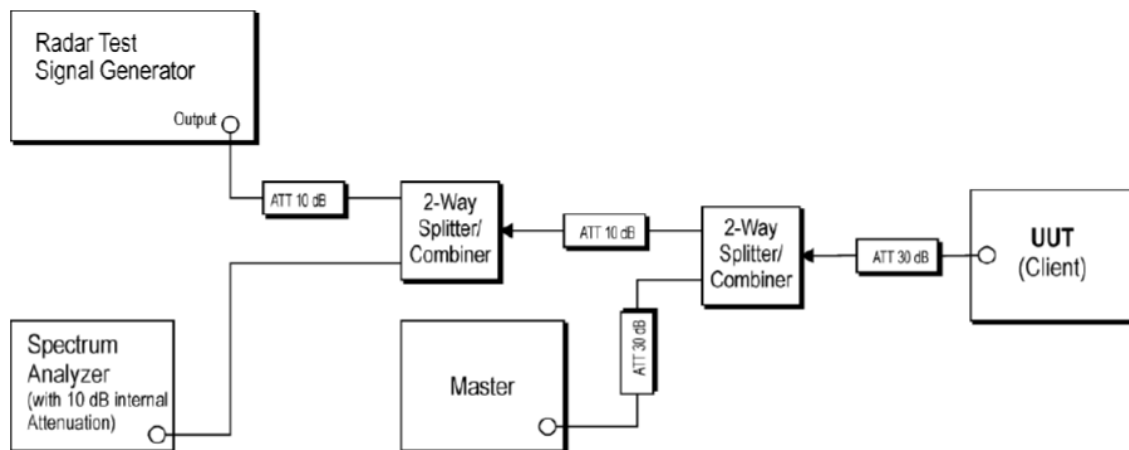


Example Conducted Setup where UUT is a Master and Radar Test Waveforms are injected into the Master

TEST REPORT



Example Conducted Setup where UUT is a Client and Radar Test Waveforms are injected into the Master



Example Conducted Setup where UUT is a Client and Radar Test Waveforms are injected into the Client

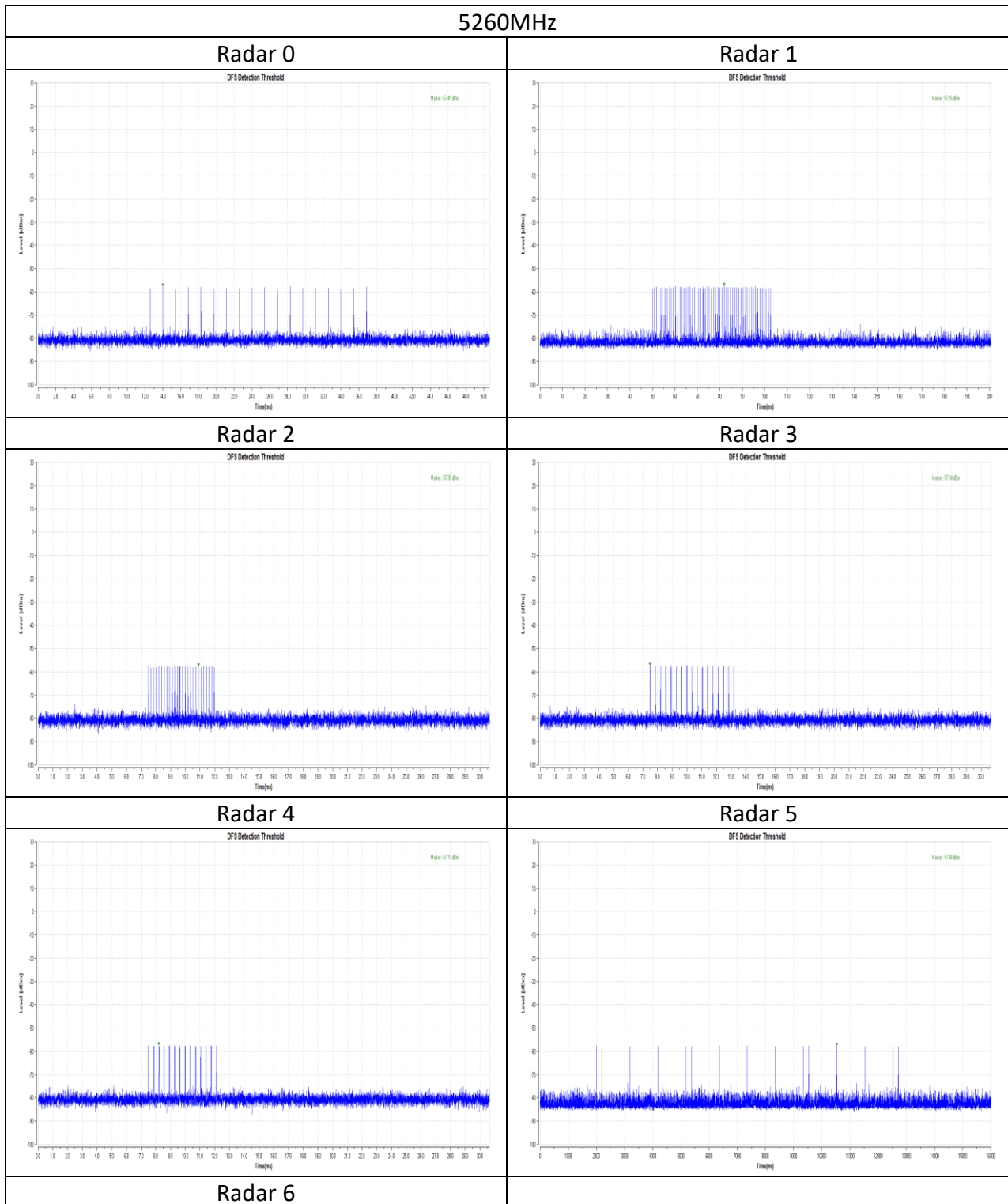
4.8 Radar Waveform Calibration Procedure

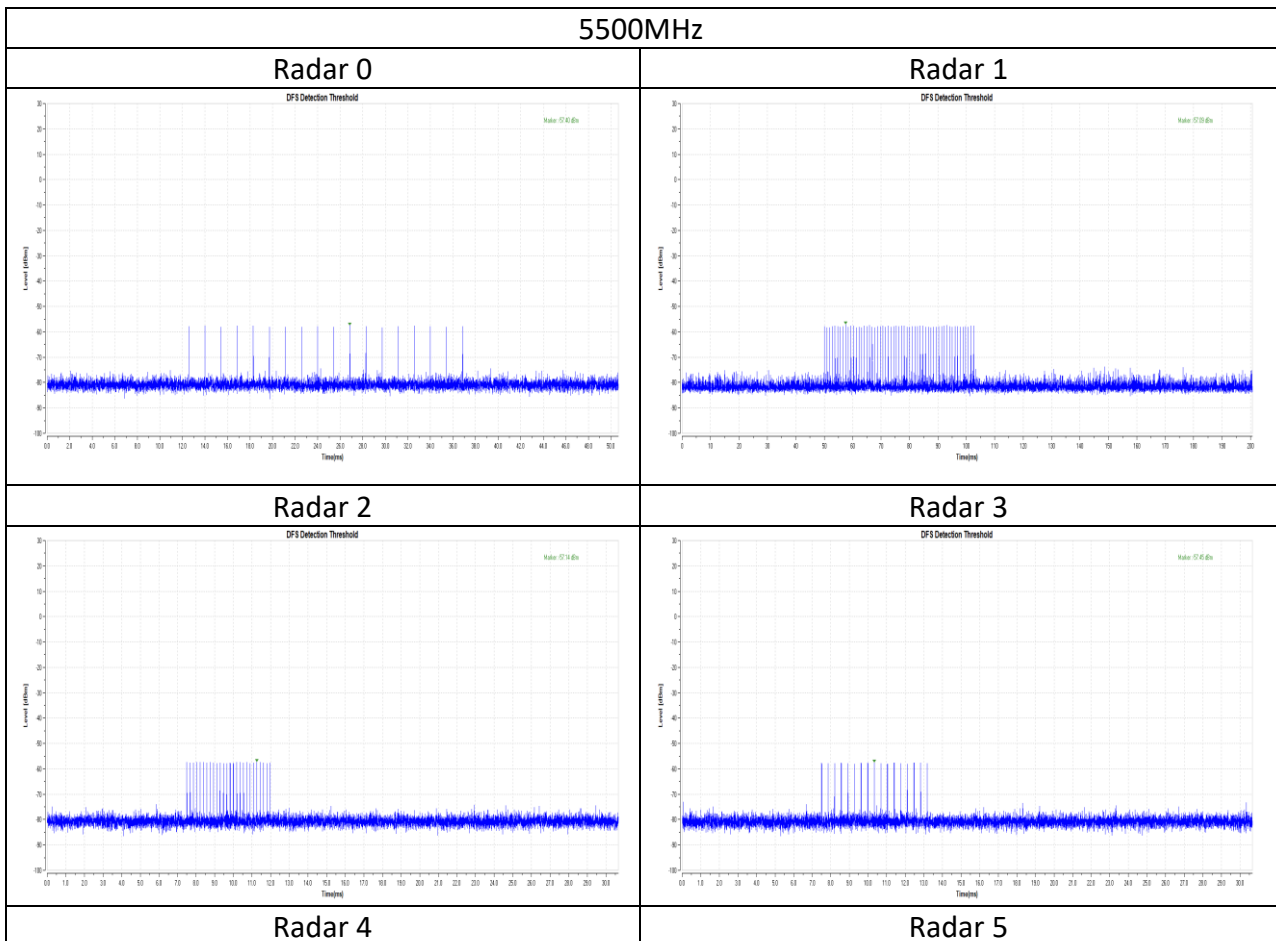
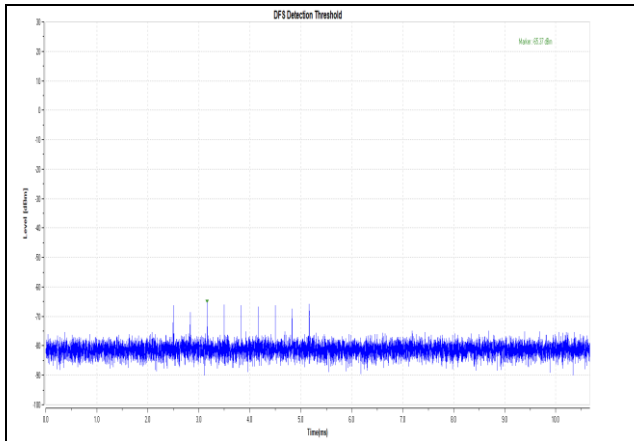
The Interference Radar Detection Threshold Level is -64dBm or -62dBm + 0 [dBi] + 1 dB that had been taken into account the output power range and antenna gain. The above equipment setup was used to calibrate the conducted Radar Waveform. A vector signal generator was utilized to establish the test signal level for each radar type. During this process there were replace 50ohm terminal form Master and Client device and no transmissions by either the Master or Client Device. The spectrum analyzer was switched to the zero span (Time Domain) at the frequency of the Radar Waveform generator. Peak detection was used. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to at least 3MHz. The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was -64dBm or -62dBm + 0 [dBi] + 1 dB. Capture the spectrum analyzer plots on short pulse radar types, long pulse radar type and hopping radar waveform.

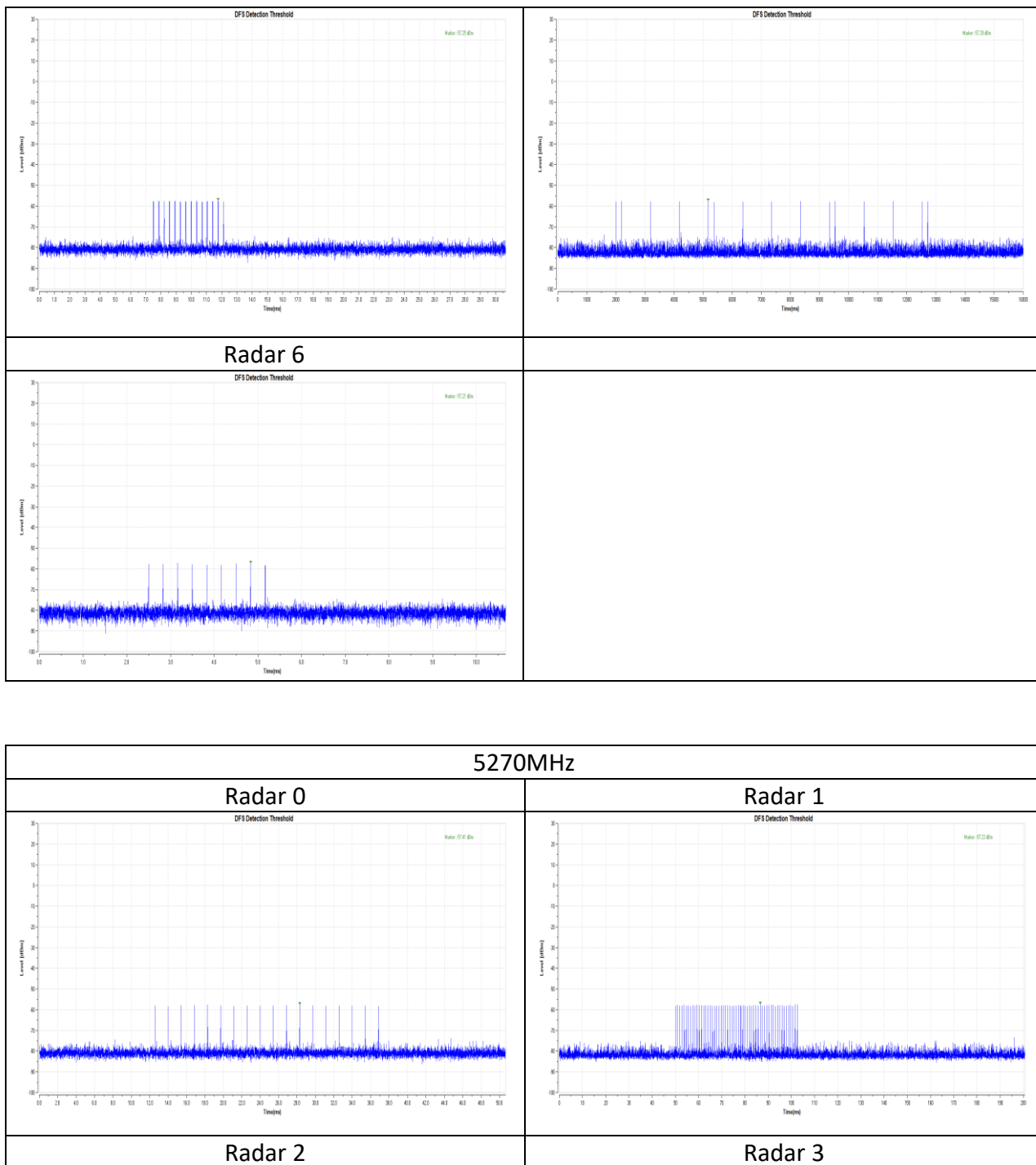
TEST REPORT

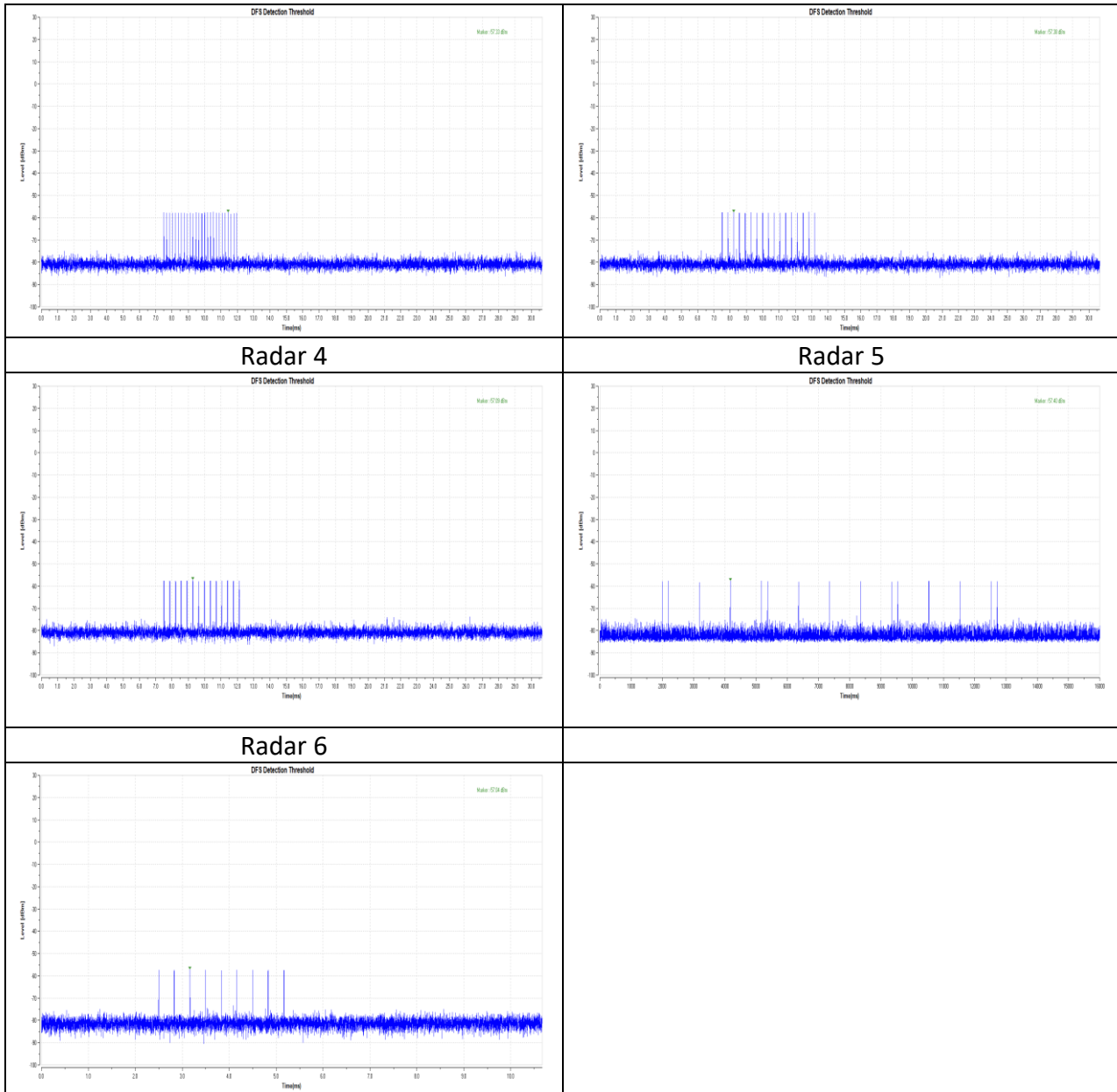
Central Frequency of Calibration	
Bandwidth	Central Frequency
20MHz	5260MHz
	5500MHz
40MHz	5270MHz
	5510MHz
80MHz	5290MHz
	5530MHz

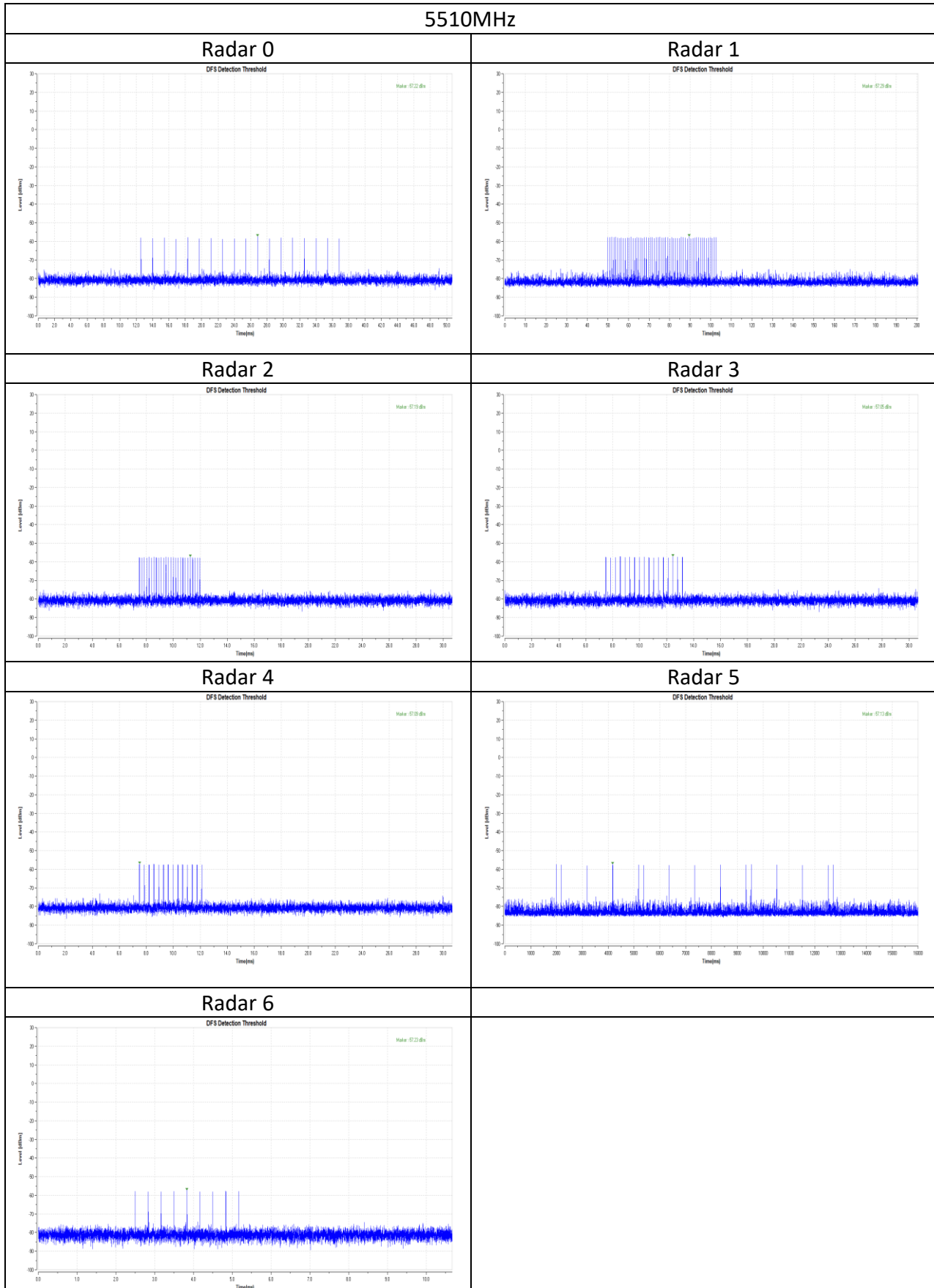
4.9 Radar Waveform Calibration Result

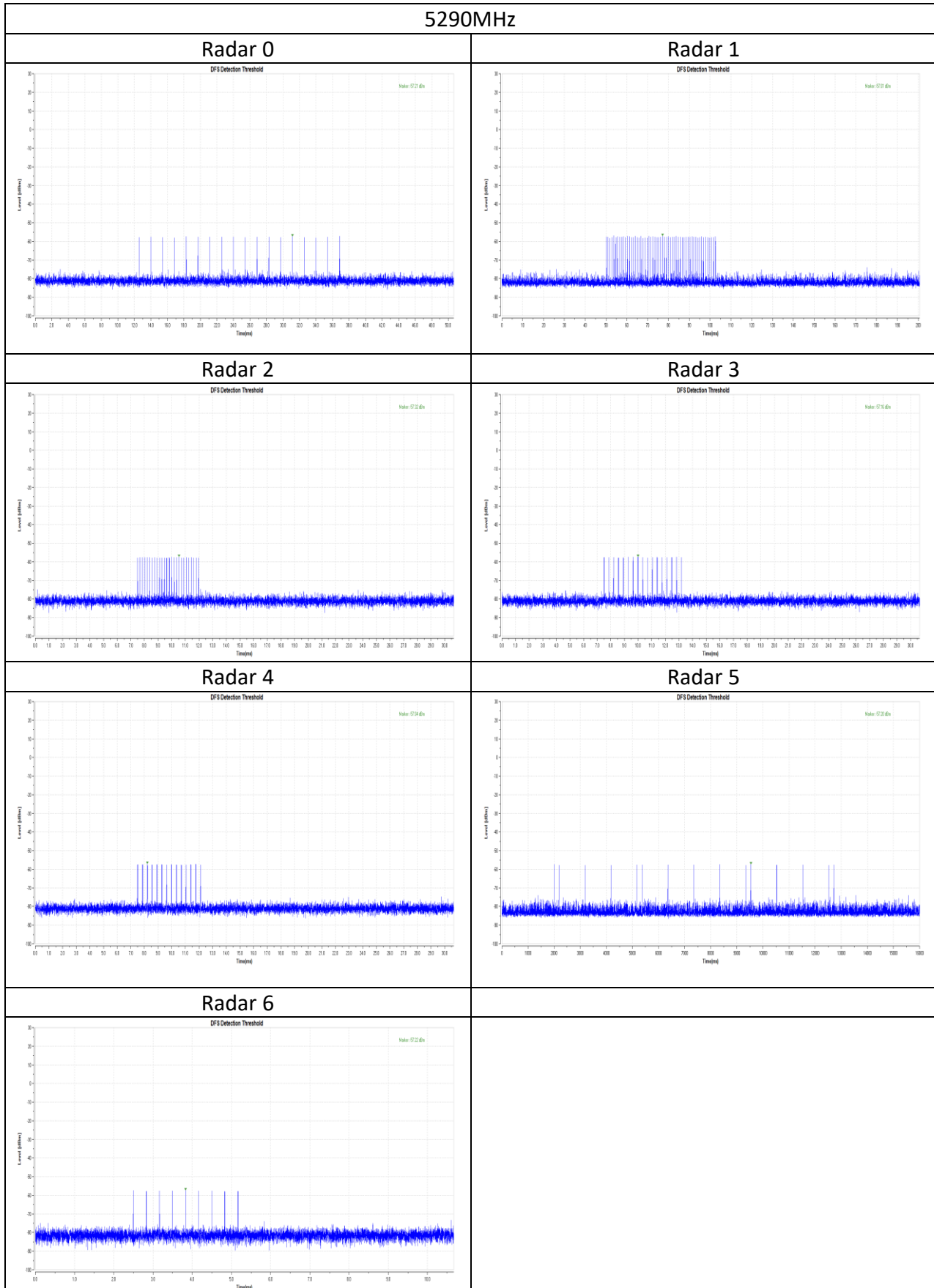


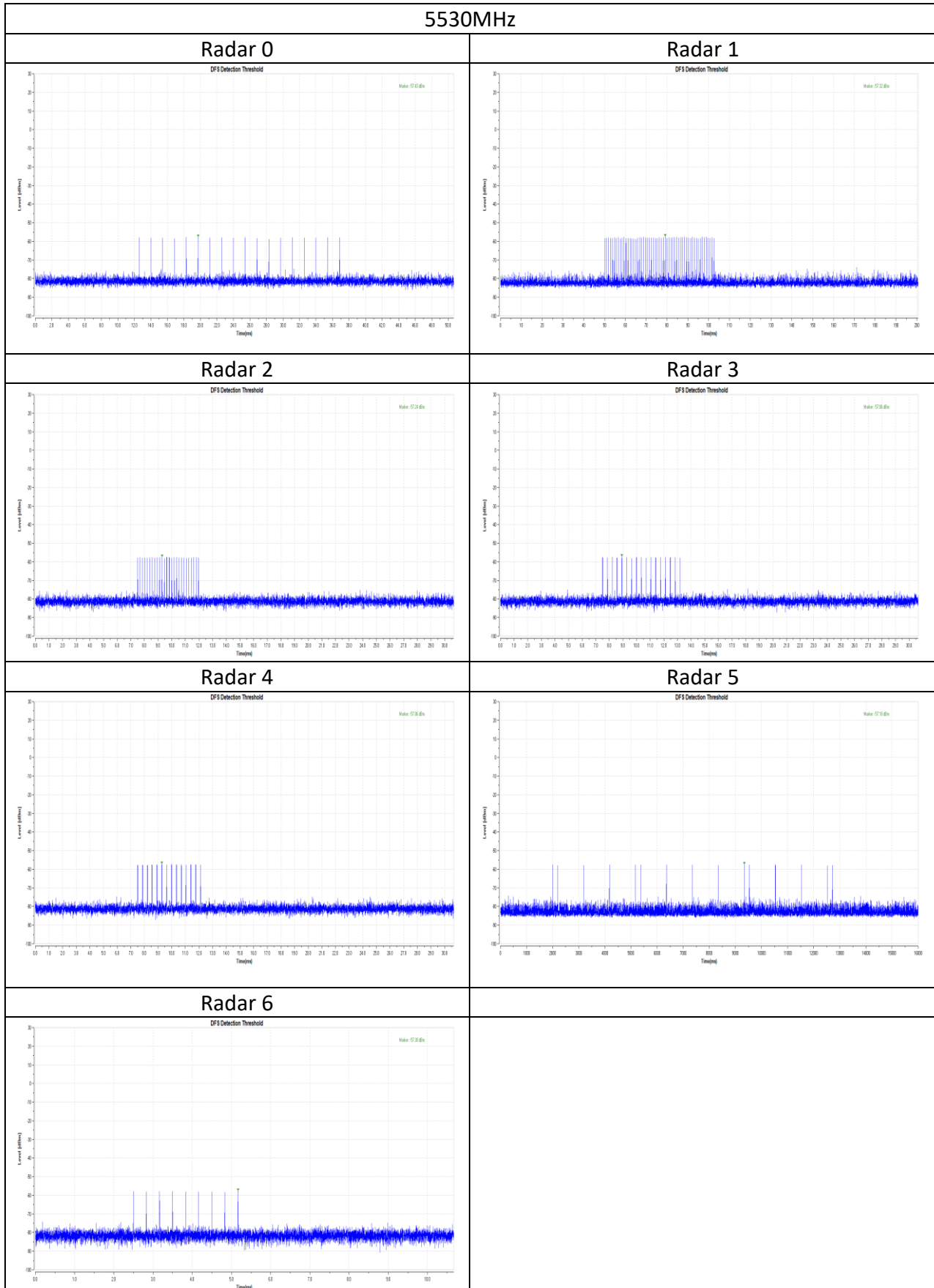








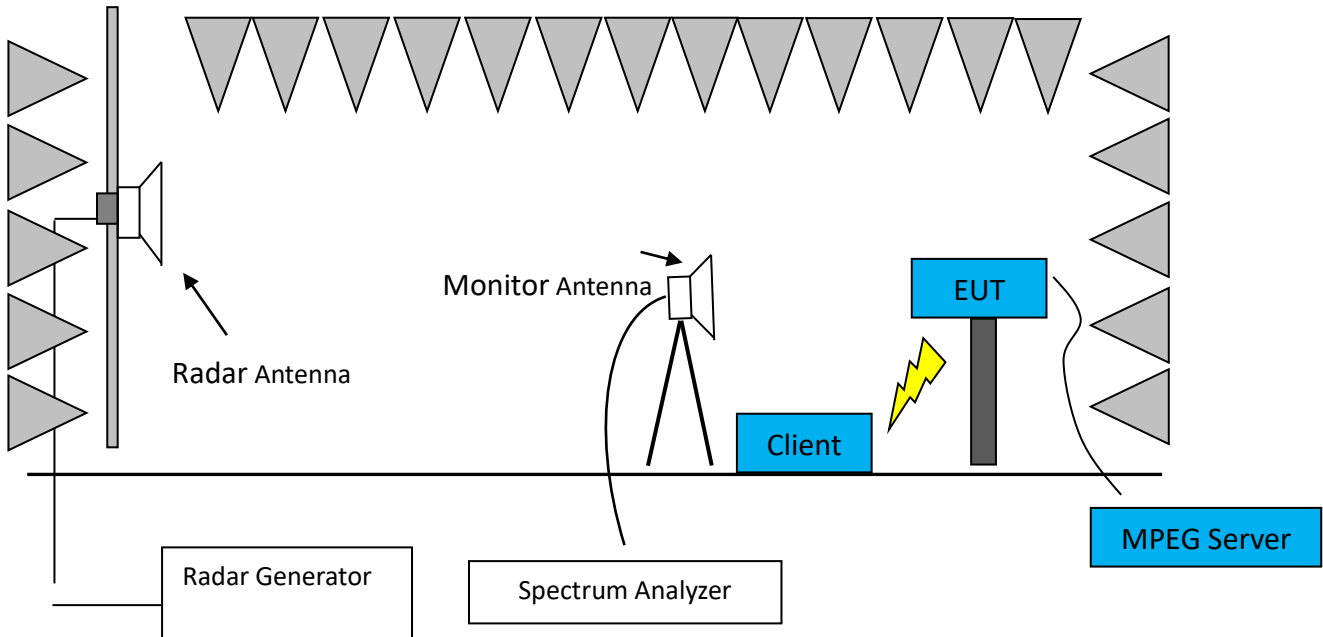




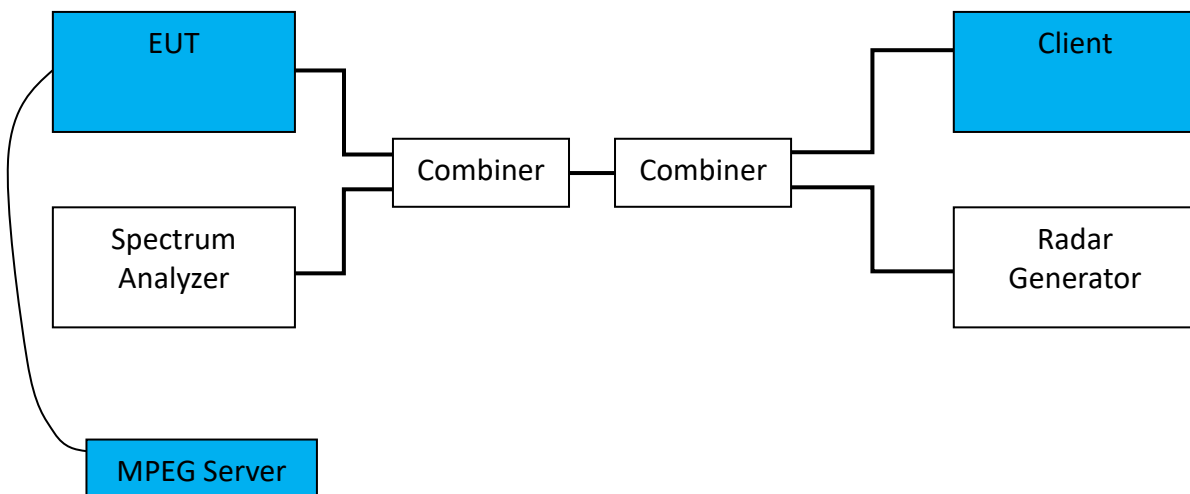
5 Test Case Results

5.1 Test setup

☐ Radiated Method



☒ Conducted Method



TEST REPORT**5.2 Test Setup Operation**

System testing was performed with the designated MPEG test file that streams full motion video from the Access Point to the Client in full motion video mode using the media player. This file is used by IP and Frame based systems for loading the test channel during the In-service compliance testing.

A spectrum analyzer is used as a monitor to verify that the EUT has vacated the Channel within the Channel Closing Transmission Time and Channel Move Time, and does not transmit on a Channel during the Non-Occupancy Period after the detection and Channel move. It is also used to monitor EUT transmissions during the Channel Availability Check Time.

5.3 Initial Channel Availability Check Time Measurement**5.3.1 Limit**

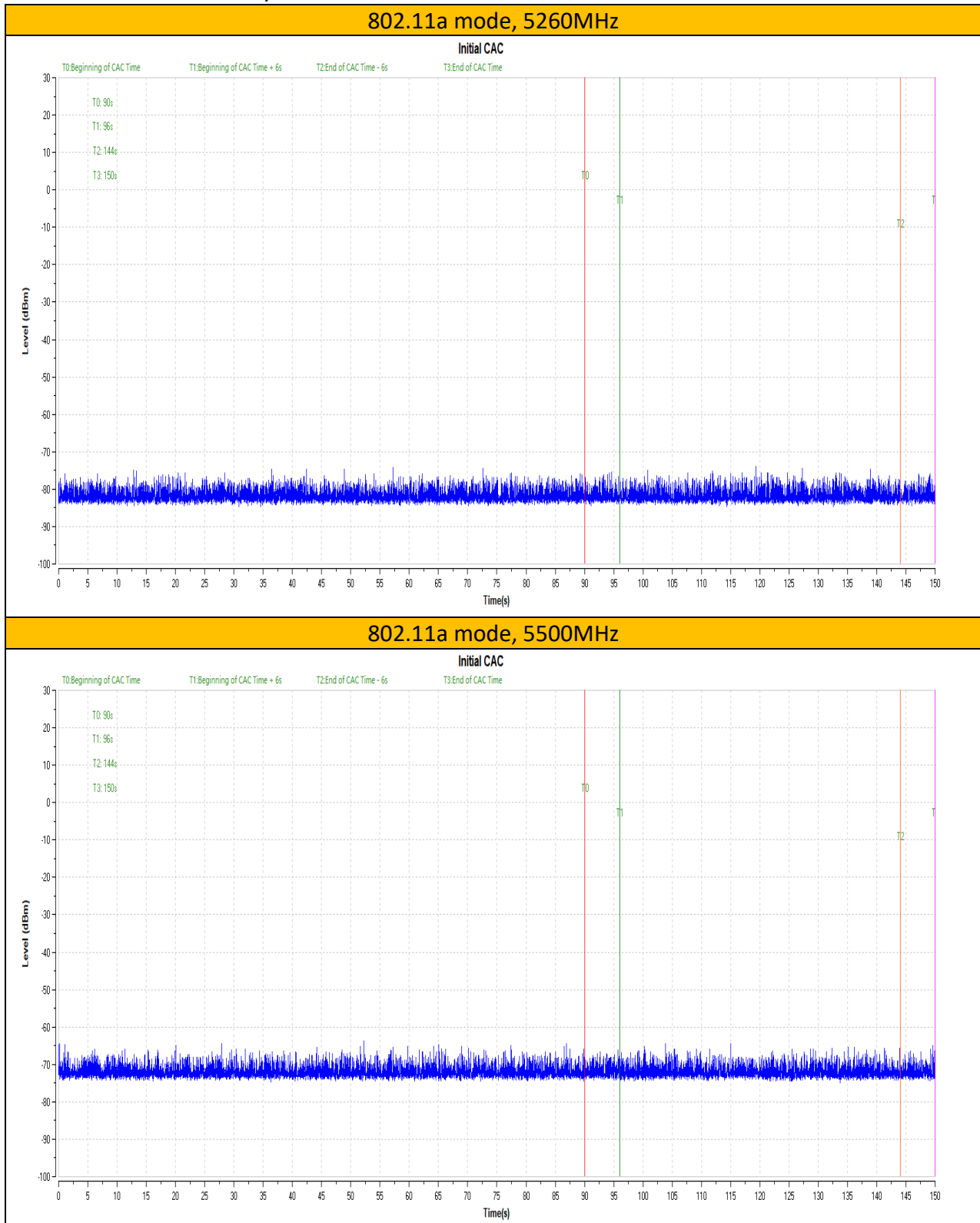
The EUT shall perform a Channel Availability Check to ensure that there is no radar operating on the channel. After power-up sequence, receive at least 60s on the intended operating frequency.

5.3.2 Test Procedures

1. The U-NII devices will be powered on and be instructed to operate on the appropriate channel. The spectrum analyzer will be set to zero span with a 3 MHz RBW and 3 MHz VBW on the Channel occupied by the radar. The spectrum analyzer's sweep will be started at the same time power is applied to the U-NII device.
2. The EUT should not transmit any beacon or data transmissions until at least 60s after the completion of the power-on cycle.

5.3.3 Test Result

Initial Channel Availability Check Time



5.4 Radar Burst at the Beginning of the CAC Time Measurement

5.4.1 Limit

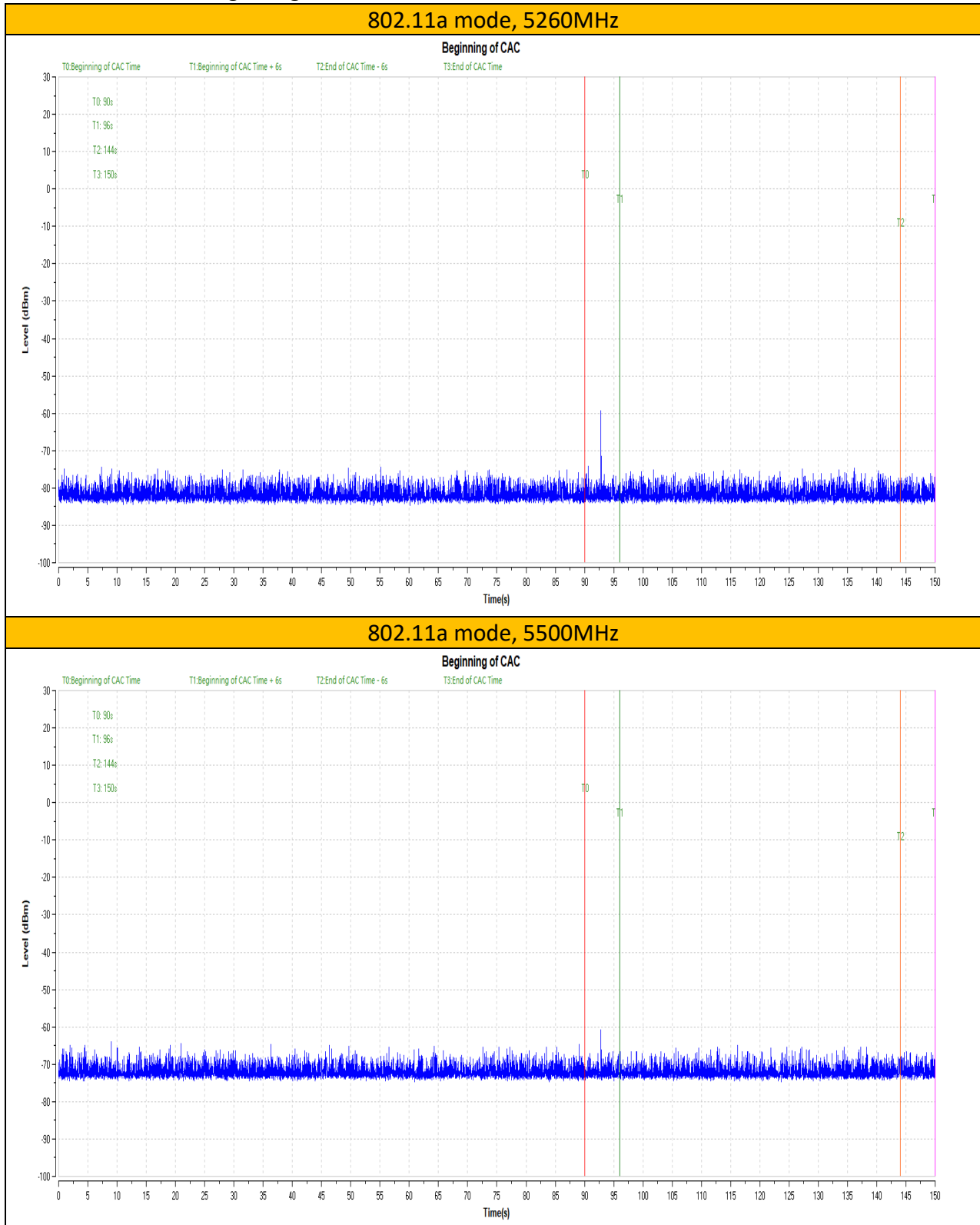
In beginning of the Channel Availability Check (CAC) Time, radar is detected on this channel, select another intended channel and perform a CAC on that channel.

5.4.2 Test Procedures

1. The steps below define the procedure to verify successful radar detection on the selected Channel during a period equal to the Channel Availability Check Time and avoidance of operation on that Channel when a radar Burst with a level equal to the DFS Detection Threshold + 1 dB occurs at the end of the Channel Availability Check Time.
2. The EUT is powered on at T0. T1 denotes the instant when the EUT has completed its power-up sequence. The Channel Availability Check Time commences at instant T1 and will end no sooner than T1 + 60 seconds. A single Burst of radar type 0 at DFS Detection Threshold + 1 dB will commence within a 6 second window starting at T1.
3. Visual indication on the EUT of successful detection of the radar Burst will be recorded and reported.

5.4.3 Test Result

Radar Burst at the Beginning of the CAC Time



TEST REPORT**5.5 Radar Burst at the End of the CAC Time Measurement****5.5.1 Limit**

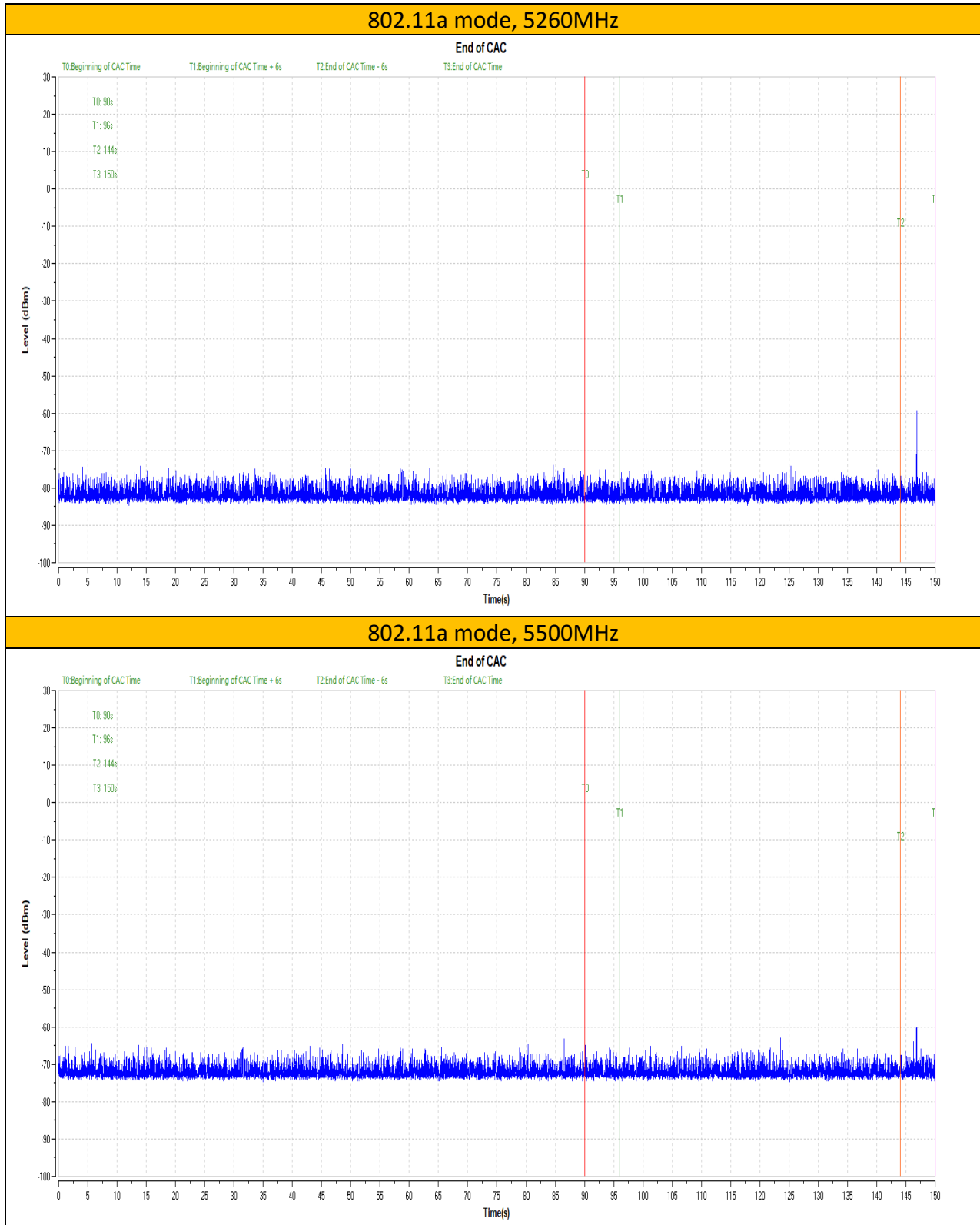
In the end of the Channel Availability Check (CAC) Time, radar is detected on this channel, select another intended channel and perform a CAC on that channel.

5.5.2 Test Procedures

1. The steps below define the procedure to verify successful radar detection on the selected Channel during a period equal to the Channel Availability Check Time and avoidance of operation on that Channel when a radar Burst with a level equal to the DFS Detection Threshold + 1 dB occurs at the end of the Channel Availability Check Time.
2. The EUT is powered on at T0. T1 denotes the instant when the EUT has completed its power-up sequence. The Channel Availability Check Time commences at instant T1 and will end no sooner than T1 + 60 seconds. A single Burst radar type 0 at DFS Detection Threshold + 1 dB will commence within a 6 second window starting at T1+ 54 seconds.
3. Visual indication on the EUT of successful detection of the radar Burst will be recorded and reported.

5.5.3 Test Result

Radar Burst at the End of the CAC Time



5.6 Move Time, Closing Time, Non-Occupancy Period Measurement

5.6.1 Limit

The Channel Move Time to cease all transmissions on the current Channel upon detection of a Radar Waveform above the DFS Detection Threshold within 10 sec.

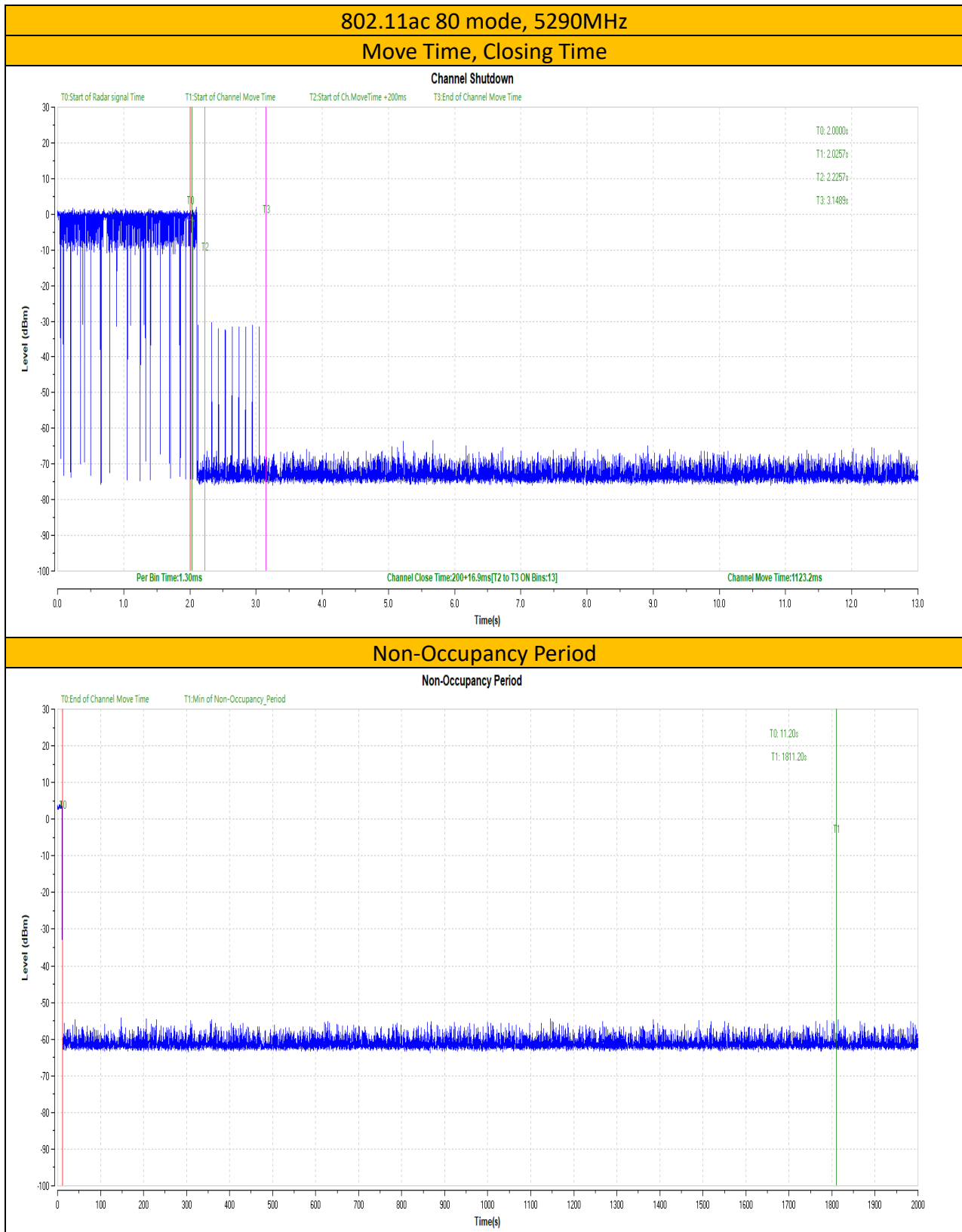
The total duration of Channel Closing Transmission Time is 200ms + an aggregate of 60ms over remaining 10s period.

The Non-Occupancy Period time is 30 minute during which a Channel will not be utilized after a Radar Waveform is detected on that Channel.

5.6.2 Test Procedures

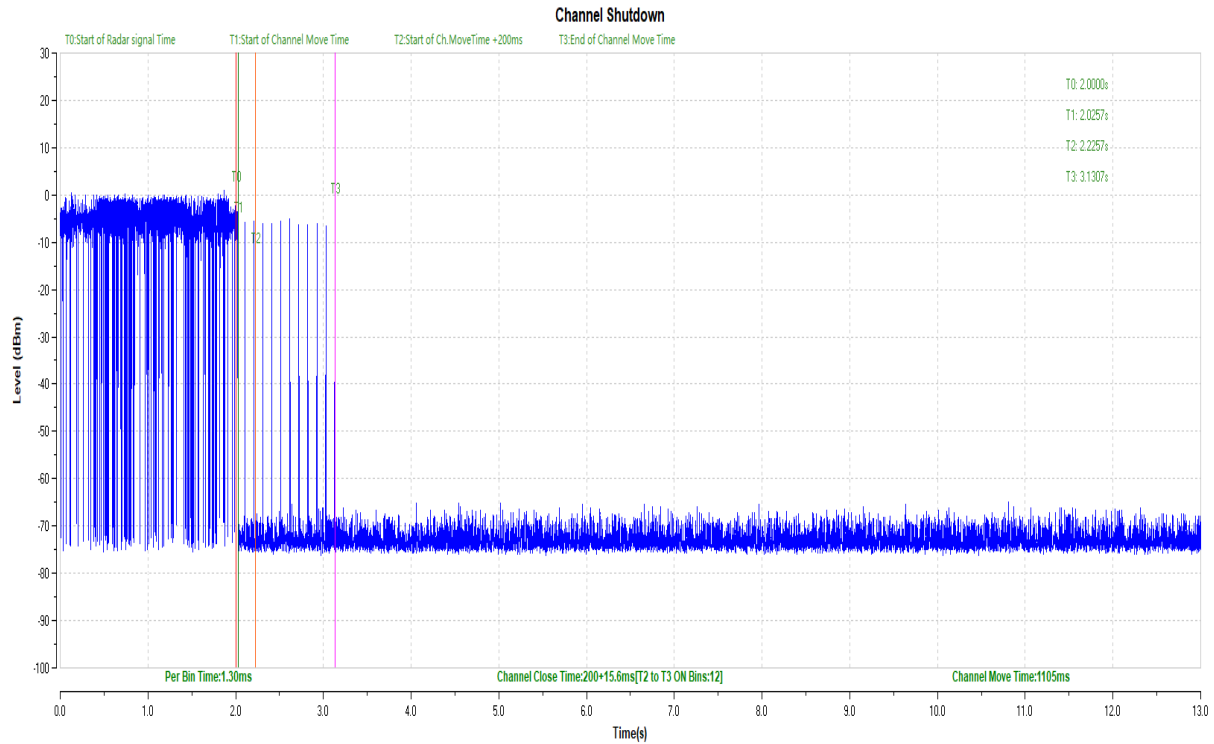
1. When a radar Burst with a level equal to the DFS Detection Threshold + 1dB is generated on the Operating Channel of the U-NII device. A U-NII device operating as a Client Device will associate with the Master at Channel. Stream the MPEG test file from the Master Device to the Client Device on the selected Channel for the entire period of the test. At time T0 the Radar Waveform generator sends a Burst of radar type 0 at Detection Threshold + 1dB.
2. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the EUT during the observation time (Channel Move Time). At least a 10 second plot is reported. The *Channel Move Time* will be calculated based on the plot.
3. Measurement of the aggregate duration of the Channel Closing Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell = S / B$; where dwell is the dwell time per spectrum analyzer sampling bin, S is the sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of *Channel Closing Transmission Time* is calculated by: $C = N * Dwell$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
4. Measure the EUT for more than 30 minutes following the channel close/move time to verify that the EUT does not resume any transmissions on this Channel.

5.6.3 Test Result

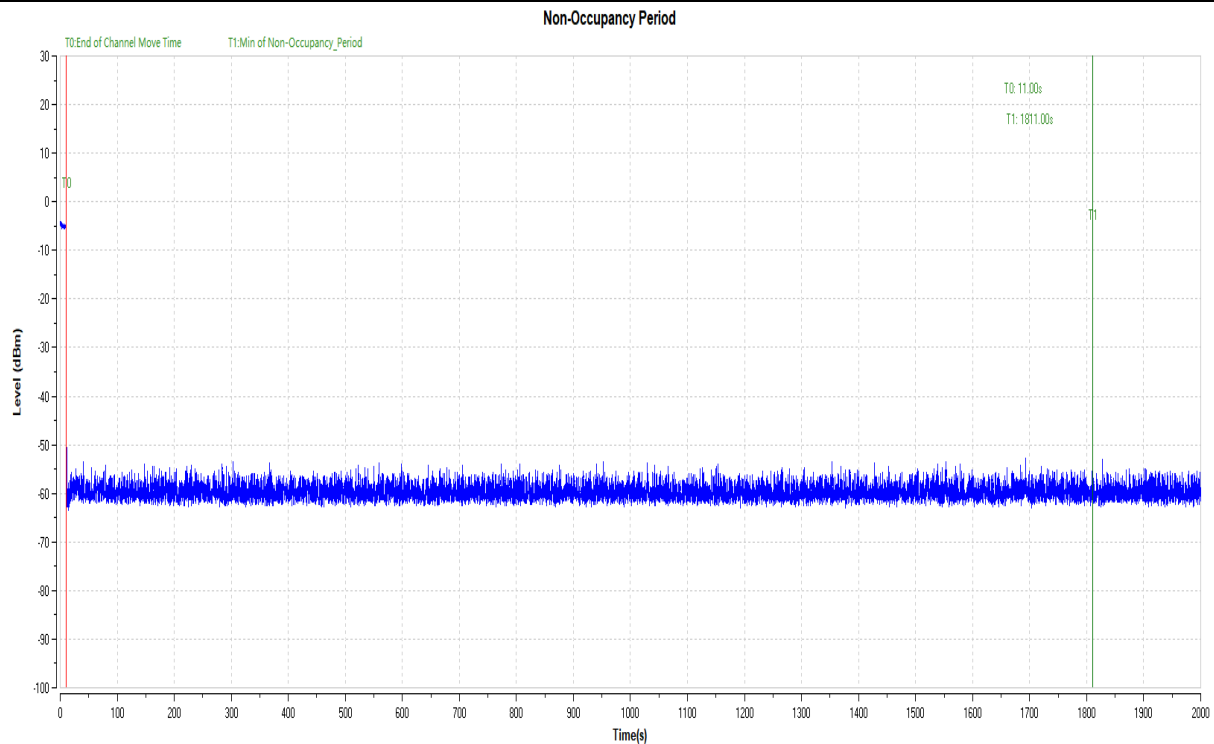


802.11ac 80 mode, 5530MHz

Move Time, Closing Time



Non-Occupancy Period



TEST REPORT**5.7 UNII Detection Bandwidth Measurement****5.7.1 Limit**

Minimum 100% of the UNII 99% transmission power bandwidth. During the U-NII Detection Bandwidth detection test, radar type 0 is used and for each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

5.7.2 Test Procedures

1. Adjust the equipment to produce a single Burst of Radar Type 0 at the center frequency of the EUT Operating Channel at the specified DFS Detection Threshold level.
2. The EUT is set up as a stand-alone device (no associated Client and no traffic). Frame based systems will be set to a talk/listen ratio of 0%/100% during this test.
3. Generate single radar Burst, and note the response of the EUT. Repeat for a minimum of 10 trials. The EUT must detect the Radar Waveform using the specified U-NII Detection Bandwidth criterion.
4. Starting at the center frequency of the UUT operating Channel, increase the radar frequency in 5 MHz steps, repeating the above test sequence, until the detection rate falls below the U-NII Detection Bandwidth criterion. Repeat this measurement in 1MHz steps at frequencies 5 MHz below where the detection rate begins to fall. Record the highest frequency (denote as FH) at which detection is greater than or equal to the U-NII Detection Bandwidth criterion. Recording the detection rate at frequencies above FH is not required to demonstrate compliance.
5. Starting at the center frequency of the UUT operating Channel, decrease the radar frequency in 5 MHz steps, repeating the above test sequence, until the detection rate falls below the U-NII Detection Bandwidth criterion. Repeat this measurement in 1MHz steps at frequencies 5 MHz above where the detection rate begins to fall. Record the lowest frequency (denote as FL) at which detection is greater than or equal to the U-NII Detection Bandwidth criterion. Recording the detection rate at frequencies below FL is not required to demonstrate compliance.
6. The U-NII Detection Bandwidth is calculated as follows: $\text{U-NII Detection Bandwidth} = \text{FH} - \text{FL}$
7. This is essential to ensure that the UUT is capable of detecting Radar Waveforms across the same frequency spectrum that contains the significant energy from the system. In the case that the U-NII Detection Bandwidth is greater than or equal to the 99 percent power bandwidth for the measured FH and FL, the test can be truncated and the U-NII Detection Bandwidth can be reported as the measured FH and FL.

TEST REPORT

5.7.3 Test Result

Operating freq (MHz)	Test Result (MHz)	Limit (min 99% bandwidth) (MHz)
☒ 5500	17.873	Refer to the RF test report
☒ 5510	36.177	
☒ 5530	75.239	

5500MHz											
Radar Frequency (MHz)	DFS Detection Trails (Y = Detected; N = Non-detected)										Rate
	1	2	3	4	5	6	7	8	9	10	
5485	N	N	N	N	N	N	N	N	N	N	0
5486	N	N	N	N	N	N	N	N	N	N	0
5487	N	N	N	N	N	N	N	N	N	N	0
5488	N	N	N	N	N	N	N	N	N	N	0
5489	N	N	N	N	N	N	N	N	N	N	0
5490 (FL)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%
5495	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%
5500	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%
5505	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%
5510 (FH)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%
5511	N	N	N	N	N	N	N	N	N	N	0
5512	N	N	N	N	N	N	N	N	N	N	0
5513	N	N	N	N	N	N	N	N	N	N	0
5514	N	N	N	N	N	N	N	N	N	N	0
5515	N	N	N	N	N	N	N	N	N	N	0
Detection Bandwidth > 99%OBW	FH-FL=20 > 17.873										

TEST REPORT

5510MHz											
Radar Frequency (MHz)	DFS Detection Trails (<i>Y = Detected; N = Non-detected</i>)										Rate
	1	2	3	4	5	6	7	8	9	10	
5485	N	N	N	N	N	N	N	N	N	N	0
5486	N	N	N	N	N	N	N	N	N	N	0
5487	N	N	N	N	N	N	N	N	N	N	0
5488	N	N	N	N	N	N	N	N	N	N	0
5489	N	N	N	N	N	N	N	N	N	N	0
5490 (FL)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%
5495	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%
5500	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%
5505	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%
5510	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%
5505	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%
5510	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%
5515	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%
5520	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%
5525	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%
5530 (FH)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%
5531	N	N	N	N	N	N	N	N	N	N	0
5532	N	N	N	N	N	N	N	N	N	N	0
5533	N	N	N	N	N	N	N	N	N	N	0
5534	N	N	N	N	N	N	N	N	N	N	0
5535	N	N	N	N	N	N	N	N	N	N	0
Detection Bandwidth > 99%OBW	FH-FL=40 > 36.177										

TEST REPORT

5530MHz											
Radar Frequency (MHz)	DFS Detection Trails (<i>Y = Detected; N = Non-detected</i>)										Rate
	1	2	3	4	5	6	7	8	9	10	
5490	N	N	N	N	N	N	N	N	N	N	0
5491 (FL)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%
5495	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%
5500	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%
5505	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%
5510	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%
5515	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%
5520	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%
5525	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%
5530	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%
5535	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%
5540	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%
5545	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%
5550	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%
5555	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%
5560	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%
5565	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%
5568 (FH)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100%
5569	N	N	N	N	N	N	N	N	N	N	0
5570	N	N	N	N	N	N	N	N	N	N	0
Detection Bandwidth > 99%OBW	FH-FL=77 > 75.239										

5.8 Statistical Performance Check Measurement

5.8.1 Limit

The minimum percentage of successful detection requirements found in below table when a radar burst with a level equal to the DFS Detection Threshold + 1dB is generated on the Operating Channel of the U-NII device (In- Service Monitoring).

Radar Type	Detection Probability (Pd)	Minimum Number of Trials
1	60%	30
2	60%	30
3	60%	30
4	60%	30
Aggregate (Radar Types 1-4)	80%	120
5	80%	30
6	70%	30

The percentage of successful detection is calculated by:

Total Waveform Detections / Total Waveform Trails *100% = Probability of Detection Radar

Waveform In addition an aggregate minimum percentage of successful detection across all

Short Pulse Radar Types 1-4 is required and is calculated as follows: $(Pd1 + Pd2 + Pd3 + Pd4) / 4$.

5.8.2 Test Procedures

1. Stream the MPEG test file from the Master Device to the Client Device on the test Channel for the entire period of the test.
2. At time T0 the Radar Waveform generator sends the individual waveform for each of the Radar Types 1-6, at levels equal to the DFS Detection Threshold + 1dB, on the Operating Channel.
3. Observe the transmissions of the EUT at the end of the Burst on the Operating Channel for duration greater than 10 seconds for Short Pulse Radar Types 1-4 and 6 to ensure detection occurs.
4. Observe the transmissions of the EUT at the end of the Burst on the Operating Channel for duration greater than 22 seconds for Long Pulse Radar Type 5 to ensure detection occurs.
5. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trial runs.
6. The Minimum number of trails, minimum percentage of successful detection and the average minimum percentage of successful detection are found in below table.

TEST REPORT

5.8.3 Test Result

Operating freq (MHz)	Radar Type	Test Result	Limit
☒ 5500	1	83.3%	60%
	2	86.7%	60%
	3	93.3%	60%
	4	80.0%	60%
	Aggregate (Radar Types 1-4)	85.8%	80%
	5	86.7%	80%
	6	90.0%	70%
☒ 5510	1	83.3%	60%
	2	86.7%	60%
	3	86.7%	60%
	4	80.0%	60%
	Aggregate (Radar Types 1-4)	84.2%	80%
	5	86.7%	80%
	6	86.7%	70%
☒ 5530	1	80.0%	60%
	2	86.7%	60%
	3	86.7%	60%
	4	76.7%	60%
	Aggregate (Radar Types 1-4)	90.0%	80%
	5	83.3%	80%
	6	86.7%	70%

TEST REPORT

5500MHz, Radar 1

Trial Id	Radar Type	Pulse Width(us)	PRI (us)	Number of Pulses	Waveform Length (us)	Conclusion
0	1	1.0	938.0	57	53466.0	Y
1	1	1.0	698.0	76	53048.0	Y
2	1	1.0	618.0	86	53148.0	Y
3	1	1.0	538.0	99	53262.0	Y
4	1	1.0	878.0	61	53558.0	Y
5	1	1.0	3066.0	18	55188.0	N
6	1	1.0	638.0	83	52954.0	Y
7	1	1.0	918.0	58	53244.0	Y
8	1	1.0	838.0	63	52794.0	Y
9	1	1.0	858.0	62	53196.0	Y
10	1	1.0	798.0	67	53466.0	Y
11	1	1.0	718.0	74	53132.0	Y
12	1	1.0	578.0	92	53176.0	Y
13	1	1.0	598.0	89	53222.0	Y
14	1	1.0	558.0	95	53010.0	N
15	1	1.0	2536.0	21	53256.0	Y
16	1	1.0	966.0	55	53130.0	Y
17	1	1.0	827.0	64	52928.0	Y
18	1	1.0	2501.0	22	55022.0	Y
19	1	1.0	2595.0	21	54495.0	Y
20	1	1.0	1114.0	48	53472.0	Y
21	1	1.0	1302.0	41	53382.0	Y
22	1	1.0	3045.0	18	54810.0	Y
23	1	1.0	1624.0	33	53592.0	N
24	1	1.0	2878.0	19	54682.0	N
25	1	1.0	1027.0	52	53404.0	Y
26	1	1.0	2485.0	22	54670.0	Y
27	1	1.0	1600.0	33	52800.0	Y
28	1	1.0	1172.0	46	53912.0	N
29	1	1.0	1177.0	45	52965.0	Y
Detection Rate: 83.3%						

TEST REPORT

5500MHz, Radar 2

Trial Id	Radar Type	Pulse Width(us)	PRI (us)	Number of Pulses	Waveform Length (us)	Conclusion
0	2	3.2	179.0	26	4654.0	Y
1	2	1.1	207.0	23	4761.0	Y
2	2	2.1	230.0	24	5520.0	Y
3	2	4.8	200.0	29	5800.0	N
4	2	3.9	214.0	28	5992.0	Y
5	2	2.9	222.0	26	5772.0	Y
6	2	3.2	204.0	26	5304.0	Y
7	2	2.5	192.0	25	4800.0	Y
8	2	3.1	164.0	26	4264.0	Y
9	2	1.2	156.0	23	3588.0	Y
10	2	3.9	210.0	27	5670.0	Y
11	2	4.6	201.0	29	5829.0	Y
12	2	3.2	162.0	26	4212.0	Y
13	2	2.2	197.0	25	4925.0	Y
14	2	4.5	163.0	29	4727.0	Y
15	2	3.0	203.0	26	5278.0	Y
16	2	5.0	168.0	29	4872.0	N
17	2	2.4	217.0	25	5425.0	Y
18	2	2.9	191.0	26	4966.0	Y
19	2	2.3	166.0	25	4150.0	Y
20	2	3.7	150.0	27	4050.0	Y
21	2	2.2	176.0	25	4400.0	Y
22	2	4.9	195.0	29	5655.0	Y
23	2	2.9	202.0	26	5252.0	N
24	2	2.5	178.0	25	4450.0	Y
25	2	1.1	206.0	23	4738.0	Y
26	2	3.8	155.0	27	4185.0	Y
27	2	4.7	157.0	29	4553.0	Y
28	2	2.4	224.0	25	5600.0	N
29	2	4.2	159.0	28	4452.0	Y
Detection Rate: 86.7%						

TEST REPORT

5500MHz, Radar 3

Trial Id	Radar Type	Pulse Width(us)	PRI (us)	Number of Pulses	Waveform Length (us)	Conclusion
0	3	8.2	355.0	17	6035.0	Y
1	3	6.1	487.0	16	7792.0	Y
2	3	7.1	344.0	16	5504.0	Y
3	3	9.8	288.0	18	5184.0	Y
4	3	8.9	230.0	18	4140.0	Y
5	3	7.9	432.0	17	7344.0	N
6	3	8.2	207.0	17	3519.0	Y
7	3	7.5	443.0	17	7531.0	Y
8	3	8.1	439.0	17	7463.0	Y
9	3	6.2	223.0	16	3568.0	Y
10	3	8.9	208.0	18	3744.0	Y
11	3	9.6	463.0	18	8334.0	Y
12	3	8.2	441.0	17	7497.0	Y
13	3	7.2	323.0	16	5168.0	Y
14	3	9.5	297.0	18	5346.0	Y
15	3	8.0	412.0	17	7004.0	Y
16	3	10.0	324.0	18	5832.0	Y
17	3	7.4	271.0	17	4607.0	Y
18	3	7.9	349.0	17	5933.0	Y
19	3	7.3	409.0	16	6544.0	Y
20	3	8.7	373.0	18	6714.0	Y
21	3	7.2	254.0	16	4064.0	Y
22	3	9.9	274.0	18	4932.0	Y
23	3	7.9	278.0	17	4726.0	Y
24	3	7.5	317.0	17	5389.0	N
25	3	6.1	260.0	16	4160.0	Y
26	3	8.8	211.0	18	3798.0	Y
27	3	9.7	272.0	18	4896.0	Y
28	3	7.4	264.0	17	4488.0	Y
29	3	9.2	284.0	18	5112.0	Y
Detection Rate: 93.3%						

TEST REPORT

5500MHz, Radar 4

Trial Id	Radar Type	Pulse Width(us)	PRI (us)	Number of Pulses	Waveform Length (us)	Conclusion
0	4	16.0	355.0	14	4970.0	Y
1	4	11.3	487.0	12	5844.0	N
2	4	13.5	344.0	13	4472.0	Y
3	4	19.4	288.0	16	4608.0	Y
4	4	17.5	230.0	15	3450.0	Y
5	4	15.3	432.0	14	6048.0	Y
6	4	15.9	207.0	14	2898.0	Y
7	4	14.3	443.0	13	5759.0	Y
8	4	15.8	439.0	14	6146.0	Y
9	4	11.5	223.0	12	2676.0	Y
10	4	17.4	208.0	15	3120.0	Y
11	4	19.0	463.0	16	7408.0	Y
12	4	16.0	441.0	14	6174.0	N
13	4	13.8	323.0	13	4199.0	Y
14	4	18.9	297.0	16	4752.0	Y
15	4	15.5	412.0	14	5768.0	N
16	4	19.9	324.0	16	5184.0	N
17	4	14.1	271.0	13	3523.0	Y
18	4	15.2	349.0	14	4886.0	Y
19	4	13.8	409.0	13	5317.0	N
20	4	17.1	373.0	15	5595.0	N
21	4	13.8	254.0	13	3302.0	Y
22	4	19.8	274.0	16	4384.0	Y
23	4	15.3	278.0	14	3892.0	Y
24	4	14.5	317.0	13	4121.0	Y
25	4	11.3	260.0	12	3120.0	Y
26	4	17.3	211.0	15	3165.0	Y
27	4	19.2	272.0	16	4352.0	Y
28	4	14.2	264.0	13	3432.0	Y
29	4	18.2	284.0	15	4260.0	Y
Detection Rate: 80%						

TEST REPORT

5500MHz, Radar 5

Trial Id	Radar Type	Number of Pulses	Chirp Width (MHz)	Burst Period (s)	Waveform Length (μs)	Center Frequency (MHz)	conclusion
0	5	15	13	0.8000000	12.0	5.5000	Y
1	5	8	19	1.5000000	12.0	5.5000	N
2	5	11	11	1.0909091	12.0	5.5000	Y
3	5	20	12	0.6000000	12.0	5.5000	Y
4	5	17	6	0.7058824	12.0	5.5000	Y
5	5	14	15	0.8571429	12.0	5.5000	Y
6	5	15	16	0.8000000	12.0	5.5000	Y
7	5	12	17	1.0000000	12.0	5.5000	Y
8	5	14	19	0.8571429	12.0	5.5000	Y
9	5	8	12	1.5000000	12.0	5.5000	N
10	5	17	7	0.7058824	12.0	5.4964	Y
11	5	19	11	0.6315789	12.0	5.4976	Y
12	5	15	14	0.8000000	12.0	5.4952	Y
13	5	12	16	1.0000000	12.0	5.4940	Y
14	5	19	9	0.6315789	12.0	5.4972	Y
15	5	14	16	0.8571429	12.0	5.4948	Y
16	5	20	13	0.6000000	12.0	5.4980	Y
17	5	12	7	1.0000000	12.0	5.4940	Y
18	5	14	10	0.8571429	12.0	5.4948	Y
19	5	12	19	1.0000000	12.0	5.4940	Y
20	5	16	12	0.7500000	12.0	5.5040	Y
21	5	12	14	1.0000000	12.0	5.5064	Y
22	5	20	9	0.6000000	12.0	5.5020	Y
23	5	14	14	0.8571429	12.0	5.5052	Y
24	5	13	6	0.9230769	12.0	5.5056	Y
25	5	8	7	1.5000000	12.0	5.5080	N
26	5	17	18	0.7058824	12.0	5.5036	Y
27	5	19	16	0.6315789	12.0	5.5024	Y
28	5	12	17	1.0000000	12.0	5.5060	N
29	5	18	16	0.6666667	12.0	5.5032	Y
Detection rate: 86.7%							

TEST REPORT

5500MHz, Radar 6

Trial Id	Radar Type	Pulse Width(μ s)	PRI(μ s)	Pulses Per Hop	Hopping Rate(kHz)	Hopping Sequence Length(ms)	Visible Frequency Number	conclusion
0	6	1.0	333.3	9	0.3333	300.00	33	Y
1	6	1.0	333.3	9	0.3333	300.00	29	Y
2	6	1.0	333.3	9	0.3333	300.00	28	Y
3	6	1.0	333.3	9	0.3333	300.00	35	Y
4	6	1.0	333.3	9	0.3333	300.00	35	Y
5	6	1.0	333.3	9	0.3333	300.00	31	Y
6	6	1.0	333.3	9	0.3333	300.00	33	N
7	6	1.0	333.3	9	0.3333	300.00	29	Y
8	6	1.0	333.3	9	0.3333	300.00	33	Y
9	6	1.0	333.3	9	0.3333	300.00	32	Y
10	6	1.0	333.3	9	0.3333	300.00	36	Y
11	6	1.0	333.3	9	0.3333	300.00	40	N
12	6	1.0	333.3	9	0.3333	300.00	37	Y
13	6	1.0	333.3	9	0.3333	300.00	34	Y
14	6	1.0	333.3	9	0.3333	300.00	31	Y
15	6	1.0	333.3	9	0.3333	300.00	39	Y
16	6	1.0	333.3	9	0.3333	300.00	35	Y
17	6	1.0	333.3	9	0.3333	300.00	36	Y
18	6	1.0	333.3	9	0.3333	300.00	29	Y
19	6	1.0	333.3	9	0.3333	300.00	32	Y
20	6	1.0	333.3	9	0.3333	300.00	35	Y
21	6	1.0	333.3	9	0.3333	300.00	38	Y
22	6	1.0	333.3	9	0.3333	300.00	40	N
23	6	1.0	333.3	9	0.3333	300.00	37	Y
24	6	1.0	333.3	9	0.3333	300.00	31	Y
25	6	1.0	333.3	9	0.3333	300.00	33	Y
26	6	1.0	333.3	9	0.3333	300.00	29	Y
27	6	1.0	333.3	9	0.3333	300.00	35	Y
28	6	1.0	333.3	9	0.3333	300.00	32	Y
29	6	1.0	333.3	9	0.3333	300.00	37	Y
Detection rate: 90%								

TEST REPORT

5510MHz, Radar 1

Trial Id	Radar Type	Pulse Width(us)	PRI (us)	Number of Pulses	Waveform Length (us)	Conclusion
0	1	1.0	938.0	57	53466.0	Y
1	1	1.0	698.0	76	53048.0	Y
2	1	1.0	618.0	86	53148.0	Y
3	1	1.0	538.0	99	53262.0	Y
4	1	1.0	878.0	61	53558.0	Y
5	1	1.0	3066.0	18	55188.0	N
6	1	1.0	638.0	83	52954.0	Y
7	1	1.0	918.0	58	53244.0	Y
8	1	1.0	838.0	63	52794.0	Y
9	1	1.0	858.0	62	53196.0	Y
10	1	1.0	798.0	67	53466.0	Y
11	1	1.0	718.0	74	53132.0	Y
12	1	1.0	578.0	92	53176.0	Y
13	1	1.0	598.0	89	53222.0	Y
14	1	1.0	558.0	95	53010.0	N
15	1	1.0	2536.0	21	53256.0	Y
16	1	1.0	966.0	55	53130.0	Y
17	1	1.0	827.0	64	52928.0	Y
18	1	1.0	2501.0	22	55022.0	Y
19	1	1.0	2595.0	21	54495.0	Y
20	1	1.0	1114.0	48	53472.0	Y
21	1	1.0	1302.0	41	53382.0	Y
22	1	1.0	3045.0	18	54810.0	Y
23	1	1.0	1624.0	33	53592.0	N
24	1	1.0	2878.0	19	54682.0	N
25	1	1.0	1027.0	52	53404.0	Y
26	1	1.0	2485.0	22	54670.0	Y
27	1	1.0	1600.0	33	52800.0	Y
28	1	1.0	1172.0	46	53912.0	N
29	1	1.0	1177.0	45	52965.0	Y
Detection Rate: 83.3%						

TEST REPORT

5510MHz, Radar 2

Trial Id	Radar Type	Pulse Width(us)	PRI (us)	Number of Pulses	Waveform Length (us)	Conclusion
0	2	3.2	179.0	26	4654.0	Y
1	2	1.1	207.0	23	4761.0	Y
2	2	2.1	230.0	24	5520.0	Y
3	2	4.8	200.0	29	5800.0	N
4	2	3.9	214.0	28	5992.0	Y
5	2	2.9	222.0	26	5772.0	Y
6	2	3.2	204.0	26	5304.0	Y
7	2	2.5	192.0	25	4800.0	Y
8	2	3.1	164.0	26	4264.0	Y
9	2	1.2	156.0	23	3588.0	Y
10	2	3.9	210.0	27	5670.0	Y
11	2	4.6	201.0	29	5829.0	Y
12	2	3.2	162.0	26	4212.0	Y
13	2	2.2	197.0	25	4925.0	Y
14	2	4.5	163.0	29	4727.0	Y
15	2	3.0	203.0	26	5278.0	Y
16	2	5.0	168.0	29	4872.0	N
17	2	2.4	217.0	25	5425.0	Y
18	2	2.9	191.0	26	4966.0	Y
19	2	2.3	166.0	25	4150.0	Y
20	2	3.7	150.0	27	4050.0	Y
21	2	2.2	176.0	25	4400.0	Y
22	2	4.9	195.0	29	5655.0	Y
23	2	2.9	202.0	26	5252.0	N
24	2	2.5	178.0	25	4450.0	Y
25	2	1.1	206.0	23	4738.0	Y
26	2	3.8	155.0	27	4185.0	Y
27	2	4.7	157.0	29	4553.0	Y
28	2	2.4	224.0	25	5600.0	N
29	2	4.2	159.0	28	4452.0	Y
Detection Rate: 86.7%						

TEST REPORT

5510MHz, Radar 3

Trial Id	Radar Type	Pulse Width(us)	PRI (us)	Number of Pulses	Waveform Length (us)	Conclusion
0	3	8.2	355.0	17	6035.0	Y
1	3	6.1	487.0	16	7792.0	Y
2	3	7.1	344.0	16	5504.0	Y
3	3	9.8	288.0	18	5184.0	Y
4	3	8.9	230.0	18	4140.0	Y
5	3	7.9	432.0	17	7344.0	N
6	3	8.2	207.0	17	3519.0	Y
7	3	7.5	443.0	17	7531.0	Y
8	3	8.1	439.0	17	7463.0	Y
9	3	6.2	223.0	16	3568.0	Y
10	3	8.9	208.0	18	3744.0	Y
11	3	9.6	463.0	18	8334.0	Y
12	3	8.2	441.0	17	7497.0	Y
13	3	7.2	323.0	16	5168.0	Y
14	3	9.5	297.0	18	5346.0	Y
15	3	8.0	412.0	17	7004.0	Y
16	3	10.0	324.0	18	5832.0	Y
17	3	7.4	271.0	17	4607.0	Y
18	3	7.9	349.0	17	5933.0	N
19	3	7.3	409.0	16	6544.0	Y
20	3	8.7	373.0	18	6714.0	N
21	3	7.2	254.0	16	4064.0	Y
22	3	9.9	274.0	18	4932.0	Y
23	3	7.9	278.0	17	4726.0	Y
24	3	7.5	317.0	17	5389.0	N
25	3	6.1	260.0	16	4160.0	Y
26	3	8.8	211.0	18	3798.0	Y
27	3	9.7	272.0	18	4896.0	Y
28	3	7.4	264.0	17	4488.0	Y
29	3	9.2	284.0	18	5112.0	Y
Detection Rate: 86.7%						

TEST REPORT

5510MHz, Radar 4

Trial Id	Radar Type	Pulse Width(us)	PRI (us)	Number of Pulses	Waveform Length (us)	Conclusion
0	4	16.0	355.0	14	4970.0	Y
1	4	11.3	487.0	12	5844.0	N
2	4	13.5	344.0	13	4472.0	Y
3	4	19.4	288.0	16	4608.0	Y
4	4	17.5	230.0	15	3450.0	Y
5	4	15.3	432.0	14	6048.0	Y
6	4	15.9	207.0	14	2898.0	Y
7	4	14.3	443.0	13	5759.0	Y
8	4	15.8	439.0	14	6146.0	Y
9	4	11.5	223.0	12	2676.0	Y
10	4	17.4	208.0	15	3120.0	Y
11	4	19.0	463.0	16	7408.0	Y
12	4	16.0	441.0	14	6174.0	N
13	4	13.8	323.0	13	4199.0	Y
14	4	18.9	297.0	16	4752.0	Y
15	4	15.5	412.0	14	5768.0	N
16	4	19.9	324.0	16	5184.0	N
17	4	14.1	271.0	13	3523.0	Y
18	4	15.2	349.0	14	4886.0	Y
19	4	13.8	409.0	13	5317.0	N
20	4	17.1	373.0	15	5595.0	N
21	4	13.8	254.0	13	3302.0	Y
22	4	19.8	274.0	16	4384.0	Y
23	4	15.3	278.0	14	3892.0	Y
24	4	14.5	317.0	13	4121.0	Y
25	4	11.3	260.0	12	3120.0	Y
26	4	17.3	211.0	15	3165.0	Y
27	4	19.2	272.0	16	4352.0	Y
28	4	14.2	264.0	13	3432.0	Y
29	4	18.2	284.0	15	4260.0	Y
Detection Rate: 80%						

TEST REPORT

5510MHz, Radar 5

Trial Id	Radar Type	Number of Pulses	Chirp Width (MHz)	Burst Period (s)	Waveform Length (μs)	Center Frequency (MHz)	conclusion
0	5	15	13	0.8000000	12.0	5.5000	Y
1	5	8	19	1.5000000	12.0	5.5000	N
2	5	11	11	1.0909091	12.0	5.5000	Y
3	5	20	12	0.6000000	12.0	5.5000	Y
4	5	17	6	0.7058824	12.0	5.5000	Y
5	5	14	15	0.8571429	12.0	5.5000	Y
6	5	15	16	0.8000000	12.0	5.5000	Y
7	5	12	17	1.0000000	12.0	5.5000	Y
8	5	14	19	0.8571429	12.0	5.5000	Y
9	5	8	12	1.5000000	12.0	5.5000	N
10	5	17	7	0.7058824	12.0	5.4964	Y
11	5	19	11	0.6315789	12.0	5.4976	Y
12	5	15	14	0.8000000	12.0	5.4952	Y
13	5	12	16	1.0000000	12.0	5.4940	Y
14	5	19	9	0.6315789	12.0	5.4972	Y
15	5	14	16	0.8571429	12.0	5.4948	Y
16	5	20	13	0.6000000	12.0	5.4980	Y
17	5	12	7	1.0000000	12.0	5.4940	Y
18	5	14	10	0.8571429	12.0	5.4948	Y
19	5	12	19	1.0000000	12.0	5.4940	Y
20	5	16	12	0.7500000	12.0	5.5040	Y
21	5	12	14	1.0000000	12.0	5.5064	Y
22	5	20	9	0.6000000	12.0	5.5020	Y
23	5	14	14	0.8571429	12.0	5.5052	Y
24	5	13	6	0.9230769	12.0	5.5056	Y
25	5	8	7	1.5000000	12.0	5.5080	N
26	5	17	18	0.7058824	12.0	5.5036	Y
27	5	19	16	0.6315789	12.0	5.5024	Y
28	5	12	17	1.0000000	12.0	5.5060	N
29	5	18	16	0.6666667	12.0	5.5032	Y
Detection rate: 86.7%							

TEST REPORT

5510MHz, Radar 6

Trial Id	Radar Type	Pulse Width(μ s)	PRI(μ s)	Pulses Per Hop	Hopping Rate(kHz)	Hopping Sequence Length(ms)	Visible Frequency Number	conclusion
0	6	1.0	333.3	9	0.3333	300.00	33	Y
1	6	1.0	333.3	9	0.3333	300.00	29	Y
2	6	1.0	333.3	9	0.3333	300.00	28	Y
3	6	1.0	333.3	9	0.3333	300.00	35	Y
4	6	1.0	333.3	9	0.3333	300.00	35	Y
5	6	1.0	333.3	9	0.3333	300.00	31	Y
6	6	1.0	333.3	9	0.3333	300.00	33	N
7	6	1.0	333.3	9	0.3333	300.00	29	Y
8	6	1.0	333.3	9	0.3333	300.00	33	Y
9	6	1.0	333.3	9	0.3333	300.00	32	Y
10	6	1.0	333.3	9	0.3333	300.00	36	Y
11	6	1.0	333.3	9	0.3333	300.00	40	N
12	6	1.0	333.3	9	0.3333	300.00	37	Y
13	6	1.0	333.3	9	0.3333	300.00	34	Y
14	6	1.0	333.3	9	0.3333	300.00	31	Y
15	6	1.0	333.3	9	0.3333	300.00	39	Y
16	6	1.0	333.3	9	0.3333	300.00	35	Y
17	6	1.0	333.3	9	0.3333	300.00	36	Y
18	6	1.0	333.3	9	0.3333	300.00	29	Y
19	6	1.0	333.3	9	0.3333	300.00	32	Y
20	6	1.0	333.3	9	0.3333	300.00	35	Y
21	6	1.0	333.3	9	0.3333	300.00	38	Y
22	6	1.0	333.3	9	0.3333	300.00	40	N
23	6	1.0	333.3	9	0.3333	300.00	37	Y
24	6	1.0	333.3	9	0.3333	300.00	31	Y
25	6	1.0	333.3	9	0.3333	300.00	33	N
26	6	1.0	333.3	9	0.3333	300.00	29	Y
27	6	1.0	333.3	9	0.3333	300.00	35	Y
28	6	1.0	333.3	9	0.3333	300.00	32	Y
29	6	1.0	333.3	9	0.3333	300.00	37	Y
Detection rate: 86.7%								

TEST REPORT

5530MHz, Radar 1

Trial Id	Radar Type	Pulse Width(us)	PRI (us)	Number of Pulses	Waveform Length (us)	Conclusion
0	1	1.0	938.0	57	53466.0	Y
1	1	1.0	698.0	76	53048.0	Y
2	1	1.0	618.0	86	53148.0	Y
3	1	1.0	538.0	99	53262.0	Y
4	1	1.0	878.0	61	53558.0	Y
5	1	1.0	3066.0	18	55188.0	N
6	1	1.0	638.0	83	52954.0	Y
7	1	1.0	918.0	58	53244.0	Y
8	1	1.0	838.0	63	52794.0	Y
9	1	1.0	858.0	62	53196.0	Y
10	1	1.0	798.0	67	53466.0	Y
11	1	1.0	718.0	74	53132.0	Y
12	1	1.0	578.0	92	53176.0	Y
13	1	1.0	598.0	89	53222.0	Y
14	1	1.0	558.0	95	53010.0	N
15	1	1.0	2536.0	21	53256.0	Y
16	1	1.0	966.0	55	53130.0	Y
17	1	1.0	827.0	64	52928.0	Y
18	1	1.0	2501.0	22	55022.0	Y
19	1	1.0	2595.0	21	54495.0	Y
20	1	1.0	1114.0	48	53472.0	Y
21	1	1.0	1302.0	41	53382.0	Y
22	1	1.0	3045.0	18	54810.0	Y
23	1	1.0	1624.0	33	53592.0	N
24	1	1.0	2878.0	19	54682.0	N
25	1	1.0	1027.0	52	53404.0	Y
26	1	1.0	2485.0	22	54670.0	N
27	1	1.0	1600.0	33	52800.0	Y
28	1	1.0	1172.0	46	53912.0	Y
29	1	1.0	1177.0	45	52965.0	N
Detection Rate: 80%						

TEST REPORT

5530MHz, Radar 2

Trial Id	Radar Type	Pulse Width(us)	PRI (us)	Number of Pulses	Waveform Length (us)	Conclusion
0	2	3.2	179.0	26	4654.0	Y
1	2	1.1	207.0	23	4761.0	Y
2	2	2.1	230.0	24	5520.0	Y
3	2	4.8	200.0	29	5800.0	N
4	2	3.9	214.0	28	5992.0	Y
5	2	2.9	222.0	26	5772.0	Y
6	2	3.2	204.0	26	5304.0	Y
7	2	2.5	192.0	25	4800.0	Y
8	2	3.1	164.0	26	4264.0	Y
9	2	1.2	156.0	23	3588.0	Y
10	2	3.9	210.0	27	5670.0	Y
11	2	4.6	201.0	29	5829.0	Y
12	2	3.2	162.0	26	4212.0	Y
13	2	2.2	197.0	25	4925.0	Y
14	2	4.5	163.0	29	4727.0	Y
15	2	3.0	203.0	26	5278.0	N
16	2	5.0	168.0	29	4872.0	Y
17	2	2.4	217.0	25	5425.0	Y
18	2	2.9	191.0	26	4966.0	Y
19	2	2.3	166.0	25	4150.0	Y
20	2	3.7	150.0	27	4050.0	Y
21	2	2.2	176.0	25	4400.0	Y
22	2	4.9	195.0	29	5655.0	Y
23	2	2.9	202.0	26	5252.0	N
24	2	2.5	178.0	25	4450.0	Y
25	2	1.1	206.0	23	4738.0	Y
26	2	3.8	155.0	27	4185.0	Y
27	2	4.7	157.0	29	4553.0	Y
28	2	2.4	224.0	25	5600.0	N
29	2	4.2	159.0	28	4452.0	Y
Detection Rate: 86.7%						

TEST REPORT

5530MHz, Radar 3

Trial Id	Radar Type	Pulse Width(us)	PRI (us)	Number of Pulses	Waveform Length (us)	Conclusion
0	3	8.2	355.0	17	6035.0	Y
1	3	6.1	487.0	16	7792.0	Y
2	3	7.1	344.0	16	5504.0	N
3	3	9.8	288.0	18	5184.0	Y
4	3	8.9	230.0	18	4140.0	Y
5	3	7.9	432.0	17	7344.0	N
6	3	8.2	207.0	17	3519.0	Y
7	3	7.5	443.0	17	7531.0	Y
8	3	8.1	439.0	17	7463.0	Y
9	3	6.2	223.0	16	3568.0	Y
10	3	8.9	208.0	18	3744.0	Y
11	3	9.6	463.0	18	8334.0	Y
12	3	8.2	441.0	17	7497.0	Y
13	3	7.2	323.0	16	5168.0	Y
14	3	9.5	297.0	18	5346.0	N
15	3	8.0	412.0	17	7004.0	Y
16	3	10.0	324.0	18	5832.0	Y
17	3	7.4	271.0	17	4607.0	Y
18	3	7.9	349.0	17	5933.0	Y
19	3	7.3	409.0	16	6544.0	Y
20	3	8.7	373.0	18	6714.0	Y
21	3	7.2	254.0	16	4064.0	Y
22	3	9.9	274.0	18	4932.0	Y
23	3	7.9	278.0	17	4726.0	Y
24	3	7.5	317.0	17	5389.0	N
25	3	6.1	260.0	16	4160.0	Y
26	3	8.8	211.0	18	3798.0	Y
27	3	9.7	272.0	18	4896.0	Y
28	3	7.4	264.0	17	4488.0	Y
29	3	9.2	284.0	18	5112.0	Y
Detection Rate: 86.7%						

TEST REPORT

5530MHz, Radar 4

Trial Id	Radar Type	Pulse Width(us)	PRI (us)	Number of Pulses	Waveform Length (us)	Conclusion
0	4	16.0	355.0	14	4970.0	Y
1	4	11.3	487.0	12	5844.0	N
2	4	13.5	344.0	13	4472.0	Y
3	4	19.4	288.0	16	4608.0	Y
4	4	17.5	230.0	15	3450.0	Y
5	4	15.3	432.0	14	6048.0	Y
6	4	15.9	207.0	14	2898.0	Y
7	4	14.3	443.0	13	5759.0	N
8	4	15.8	439.0	14	6146.0	Y
9	4	11.5	223.0	12	2676.0	Y
10	4	17.4	208.0	15	3120.0	Y
11	4	19.0	463.0	16	7408.0	Y
12	4	16.0	441.0	14	6174.0	N
13	4	13.8	323.0	13	4199.0	Y
14	4	18.9	297.0	16	4752.0	Y
15	4	15.5	412.0	14	5768.0	N
16	4	19.9	324.0	16	5184.0	N
17	4	14.1	271.0	13	3523.0	Y
18	4	15.2	349.0	14	4886.0	Y
19	4	13.8	409.0	13	5317.0	N
20	4	17.1	373.0	15	5595.0	N
21	4	13.8	254.0	13	3302.0	Y
22	4	19.8	274.0	16	4384.0	Y
23	4	15.3	278.0	14	3892.0	Y
24	4	14.5	317.0	13	4121.0	Y
25	4	11.3	260.0	12	3120.0	Y
26	4	17.3	211.0	15	3165.0	Y
27	4	19.2	272.0	16	4352.0	Y
28	4	14.2	264.0	13	3432.0	Y
29	4	18.2	284.0	15	4260.0	Y
Detection Rate: 76.7%						

TEST REPORT

5530MHz, Radar 5

Trial Id	Radar Type	Number of Pulses	Chirp Width (MHz)	Burst Period (s)	Waveform Length (μs)	Center Frequency (MHz)	conclusion
0	5	15	13	0.8000000	12.0	5.5000	Y
1	5	8	19	1.5000000	12.0	5.5000	N
2	5	11	11	1.0909091	12.0	5.5000	Y
3	5	20	12	0.6000000	12.0	5.5000	Y
4	5	17	6	0.7058824	12.0	5.5000	Y
5	5	14	15	0.8571429	12.0	5.5000	Y
6	5	15	16	0.8000000	12.0	5.5000	Y
7	5	12	17	1.0000000	12.0	5.5000	N
8	5	14	19	0.8571429	12.0	5.5000	Y
9	5	8	12	1.5000000	12.0	5.5000	N
10	5	17	7	0.7058824	12.0	5.4964	Y
11	5	19	11	0.6315789	12.0	5.4976	Y
12	5	15	14	0.8000000	12.0	5.4952	Y
13	5	12	16	1.0000000	12.0	5.4940	Y
14	5	19	9	0.6315789	12.0	5.4972	Y
15	5	14	16	0.8571429	12.0	5.4948	Y
16	5	20	13	0.6000000	12.0	5.4980	Y
17	5	12	7	1.0000000	12.0	5.4940	Y
18	5	14	10	0.8571429	12.0	5.4948	Y
19	5	12	19	1.0000000	12.0	5.4940	Y
20	5	16	12	0.7500000	12.0	5.5040	Y
21	5	12	14	1.0000000	12.0	5.5064	Y
22	5	20	9	0.6000000	12.0	5.5020	Y
23	5	14	14	0.8571429	12.0	5.5052	Y
24	5	13	6	0.9230769	12.0	5.5056	Y
25	5	8	7	1.5000000	12.0	5.5080	N
26	5	17	18	0.7058824	12.0	5.5036	Y
27	5	19	16	0.6315789	12.0	5.5024	Y
28	5	12	17	1.0000000	12.0	5.5060	N
29	5	18	16	0.6666667	12.0	5.5032	Y
Detection rate: 83.3%							

TEST REPORT

5530MHz, Radar 6

Trial Id	Radar Type	Pulse Width(μ s)	PRI(μ s)	Pulses Per Hop	Hopping Rate(kHz)	Hopping Sequence Length(ms)	Visible Frequency Number	conclusion
0	6	1.0	333.3	9	0.3333	300.00	33	Y
1	6	1.0	333.3	9	0.3333	300.00	29	Y
2	6	1.0	333.3	9	0.3333	300.00	28	Y
3	6	1.0	333.3	9	0.3333	300.00	35	Y
4	6	1.0	333.3	9	0.3333	300.00	35	Y
5	6	1.0	333.3	9	0.3333	300.00	31	Y
6	6	1.0	333.3	9	0.3333	300.00	33	N
7	6	1.0	333.3	9	0.3333	300.00	29	Y
8	6	1.0	333.3	9	0.3333	300.00	33	Y
9	6	1.0	333.3	9	0.3333	300.00	32	Y
10	6	1.0	333.3	9	0.3333	300.00	36	Y
11	6	1.0	333.3	9	0.3333	300.00	40	N
12	6	1.0	333.3	9	0.3333	300.00	37	Y
13	6	1.0	333.3	9	0.3333	300.00	34	Y
14	6	1.0	333.3	9	0.3333	300.00	31	Y
15	6	1.0	333.3	9	0.3333	300.00	39	N
16	6	1.0	333.3	9	0.3333	300.00	35	Y
17	6	1.0	333.3	9	0.3333	300.00	36	Y
18	6	1.0	333.3	9	0.3333	300.00	29	Y
19	6	1.0	333.3	9	0.3333	300.00	32	Y
20	6	1.0	333.3	9	0.3333	300.00	35	Y
21	6	1.0	333.3	9	0.3333	300.00	38	Y
22	6	1.0	333.3	9	0.3333	300.00	40	N
23	6	1.0	333.3	9	0.3333	300.00	37	Y
24	6	1.0	333.3	9	0.3333	300.00	31	Y
25	6	1.0	333.3	9	0.3333	300.00	33	Y
26	6	1.0	333.3	9	0.3333	300.00	29	Y
27	6	1.0	333.3	9	0.3333	300.00	35	Y
28	6	1.0	333.3	9	0.3333	300.00	32	Y
29	6	1.0	333.3	9	0.3333	300.00	37	Y
Detection rate: 86.7%								