



# RF TEST REPORT

|                   |                               |
|-------------------|-------------------------------|
| <b>Applicant</b>  | NOKIA Shanghai Bell CO., Ltd. |
| <b>FCC ID</b>     | 2ADZRXS2426XA                 |
| <b>Product</b>    | ONT                           |
| <b>Brand</b>      | NOKIA                         |
| <b>Model</b>      | XS-2426X-A                    |
| <b>Report No.</b> | R2112A1145-R3                 |
| <b>Issue Date</b> | April 2, 2022                 |

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 15E (2021)**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

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Approved by: Kai Xu

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## Summary of measurement results

| Number | Test Case                         | Clause in FCC rules     | Verdict |
|--------|-----------------------------------|-------------------------|---------|
| 1      | DFS Detection Threshold           | 15.407/KDB 905462 5.2   | Pass    |
| 2      | U-NII Detection Bandwidth         | 15.407/KDB 905462 7.8.1 | Pass    |
| 3      | Channel Availability Check Time   | 15.407/KDB 905462 7.8.2 | Pass    |
| 4      | Channel Move Time                 | 15.407/KDB 905462 7.8.3 | Pass    |
| 5      | Channel Closing Transmission Time | 15.407/KDB 905462 7.8.3 | Pass    |
| 6      | Non-Occupancy Period(NOP)         | 15.407/KDB 905462 7.8.3 | Pass    |
| 7      | Statistical Performance Check     | 15.407/KDB 905462 7.8.4 | Pass    |

Date of Testing: January 21, 2022~ March 17, 2022

Date of Sample Received: December 6, 2021

Note: PASS: The EUT complies with the essential requirements in the standard.

FAIL: The EUT does not comply with the essential requirements in the standard.

All indications of Pass/Fail in this report are opinions expressed by TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.



## 1. Test Laboratory

### 1.1. Notes of the test report

This report shall not be reproduced in full or partial, without the written approval of **TA technology (shanghai) co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

### 1.2. Test facility

#### **FCC (Designation number: CN1179, Test Firm Registration Number: 446626)**

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

#### **A2LA (Certificate Number: 3857.01)**

TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

### 1.3. Testing Location

Company: TA Technology (Shanghai) Co., Ltd.  
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## 2. General Description of Equipment under Test

### 2.1. Applicant and Manufacturer Information

|                             |                                                                          |
|-----------------------------|--------------------------------------------------------------------------|
| <b>Applicant</b>            | Nokia ShangHai Bell Co., Ltd.                                            |
| <b>Applicant address</b>    | No. 388, Ningqiao Rd. Pilot Free Trade Zone Shanghai 201206<br>P.R.China |
| <b>Manufacturer</b>         | Nokia ShangHai Bell Co., Ltd.                                            |
| <b>Manufacturer address</b> | No. 388, Ningqiao Rd. Pilot Free Trade Zone Shanghai 201206<br>P.R.China |

### 2.2. General information

| EUT Description                                                                                             |                                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                                                                                                       | XS-2426X-A                                                                                                                                                    |
| SN                                                                                                          | ALCL00861234                                                                                                                                                  |
| Hardware Version                                                                                            | PEM2.0                                                                                                                                                        |
| Software Version                                                                                            | 3FE49864T48612                                                                                                                                                |
| Power Supply                                                                                                | AC adapter                                                                                                                                                    |
| Antenna Type                                                                                                | Internal Antenna                                                                                                                                              |
| Operating Frequency Range(s)                                                                                | U-NII-2A: 5250MHz-5350MHz<br>U-NII-2C: 5470MHz-5725MHz                                                                                                        |
| Modulation Type                                                                                             | 802.11a/n (HT20/ HT40) : OFDM<br>802.11ac (VHT20/ VHT40/ VHT80/ VHT160): OFDM<br>802.11ax (HE20/ HE40/ HE80/ HE160): OFDM, OFDMA                              |
| Operating Mode                                                                                              | <input checked="" type="checkbox"/> Master<br><input type="checkbox"/> Client with radar detection<br><input type="checkbox"/> Client without radar detection |
| Note: The EUT is sent from the applicant to TA and the information of the EUT is declared by the applicant. |                                                                                                                                                               |

**Information of Configuration:**

| No. | Name           | Model/Code No.                    | Edition | Serial No. or Quantity |
|-----|----------------|-----------------------------------|---------|------------------------|
| 1   | EMA-XS-2426X-A | 3FE 49691 AAAA                    | PEM2.0  | PEM 2.0                |
| 2   | Power adapter  | HONOR: ADS-40FKJ-12N<br>12036EPCU | A/0     | 1PCS                   |
| 3   | Power adapter  | FUHUA: UES36WU-120300SPA          | A/0     | 1PCS                   |
| 4   | UPS            | Cyber Power: DTC36U12V3-G         | A/0     | 1PCS                   |
| 5   | UPS            | PSI: PS36L-P7 and PS36L-EX-2      | A/0     | 1PCS                   |

| ONT Mnemonic | Kit Code    | EMA Code       | Part Description                                                                    | Power Adapter/UPS              |                              |
|--------------|-------------|----------------|-------------------------------------------------------------------------------------|--------------------------------|------------------------------|
| XS-2426X-A   | 3FE496 91AA | 3FE 49691 AAAA | Wi-Fi GPON RGW, 2xPOTS, 3xGE, 1x10GE, 1x USB, WiFi-6 4x4 + 4x4, Nokia logo          | ONT only                       | ONT only                     |
| XS-2426X-A   | 3FE496 90AA | 3FE 49691 AAAA | Wi-Fi GPON RGW, 2xPOTS, 3xGE, 1x10GE, 1x USB, WiFi-6 4x4 + 4x4, Kit with US plug PS | HONOR: ADS-40FKJ-12N 12036EPCU | FUHUA: UES36WU-12030 0SPA    |
| XS-2426X-A   | 3FE496 90AA | 3FE 49691 AAAA | Wi-Fi GPON RGW, 2xPOTS, 3xGE, 1x10GE, 1x USB, WiFi-6 4x4 + 4x4, Kit with US plug PS | Cyber Power: DTC36U12V3-G      | PSI: PS36L-P7 and PS36L-EX-2 |
| XS-2426X-A   | 3FE496 90AB | 3FE 49691 AAAA | Wi-Fi GPON RGW, 2xPOTS, 3xGE, 1x10GE, 1x USB, WiFi-6 4x4 + 4x4, Canada, US plug     | HONOR: ADS-40FKJ-12N 12036EPCU | FUHUA: UES36WU-12030 0SPA    |
| XS-2426X-A   | 3FE496 90AB | 3FE 49691 AAAA | Wi-Fi GPON RGW, 2xPOTS, 3xGE, 1x10GE, 1x USB, WiFi-6 4x4 + 4x4, Canada, US plug     | Cyber Power: DTC36U12V3-G      | PSI: PS36L-P7 and PS36L-EX-2 |

NOTE: For KIT code 3FE49229AAAA, UPS equipment customers buy their own.

### Auxiliary equipment details

| No. | Name        | Brand name | Model             | ASB code       | Valid Until         |
|-----|-------------|------------|-------------------|----------------|---------------------|
| 1   | Test Center | Spirent    | C1                | DE48D0         | No Cal.<br>Required |
| 2   | OLT         | Nokia      | 7360 ISAM<br>FX-4 | 7661MC4L3KW965 | No Cal.<br>Required |
| 3   | PC          | DELL       | N/A               | -              | No Cal.<br>Required |

### Information of Ports

| No. | Port name | Number | Shielded or<br>unshielded | Cable type (optic,<br>twisted pair, etc.) | Max. Cable length |
|-----|-----------|--------|---------------------------|-------------------------------------------|-------------------|
| 1   | AC port   | 1      | Unshielded                | N/A                                       | N/A               |
| 2   | POTS      | 2      | Unshielded                | Twisted pair                              | 2M                |
| 3   | GE        | 3      | Unshielded                | CAT-5E or above                           | 1.5M              |
| 4   | 10GE      | 1      | shielded                  | CAT-7 or above                            | 1.5M              |
| 5   | USB       | 1      | Unshielded                | N/A                                       | N/A               |

**Wireless Technology and Frequency Range**

| Wireless Technology                                                                                        |          | Bandwidth | Channel | Frequency |  |
|------------------------------------------------------------------------------------------------------------|----------|-----------|---------|-----------|--|
| Wi-Fi                                                                                                      | U-NII-2A | 20 MHz    | 52      | 5260MHz   |  |
|                                                                                                            |          |           | 56      | 5280MHz   |  |
|                                                                                                            |          |           | 60      | 5300MHz   |  |
|                                                                                                            |          |           | 64      | 5320MHz   |  |
|                                                                                                            |          | 40 MHz    | 54      | 5270MHz   |  |
|                                                                                                            |          |           | 62      | 5310MHz   |  |
|                                                                                                            |          | 80 MHz    | 58      | 5290MHz   |  |
|                                                                                                            |          | 160MHz    | 50      | 5250MHz   |  |
|                                                                                                            | U-NII-2C | 20 MHz    | 100     | 5500MHz   |  |
|                                                                                                            |          |           | 104     | 5520MHz   |  |
|                                                                                                            |          |           | 108     | 5540MHz   |  |
|                                                                                                            |          |           | 112     | 5560MHz   |  |
|                                                                                                            |          |           | 116     | 5580MHz   |  |
|                                                                                                            |          |           | 120     | 5600MHz   |  |
|                                                                                                            |          |           | 124     | 5620MHz   |  |
|                                                                                                            |          |           | 128     | 5640MHz   |  |
|                                                                                                            |          |           | 132     | 5660MHz   |  |
|                                                                                                            |          |           | 136     | 5680MHz   |  |
|                                                                                                            |          |           | 140     | 5700MHz   |  |
|                                                                                                            |          |           | 144     | 5720MHz   |  |
|                                                                                                            |          | 40 MHz    | 102     | 5510MHz   |  |
|                                                                                                            |          |           | 110     | 5550MHz   |  |
|                                                                                                            |          |           | 118     | 5590MHz   |  |
|                                                                                                            |          |           | 126     | 5630MHz   |  |
|                                                                                                            |          |           | 134     | 5670MHz   |  |
|                                                                                                            |          |           | 142     | 5710MHz   |  |
|                                                                                                            |          | 80 MHz    | 106     | 5530MHz   |  |
|                                                                                                            |          |           | 122     | 5610MHz   |  |
|                                                                                                            |          |           | 138     | 5690MHz   |  |
|                                                                                                            |          | 160MHz    | 114     | 5570MHz   |  |
| Does this device support TPC Function? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |          |           |         |           |  |
| Does this device support TDWR Band? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No    |          |           |         |           |  |





### 3. Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

**Test standards:**

**FCC CFR47 Part 15E (2021)** Unlicensed National Information Infrastructure Devices

**Reference standard:**

**FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02**

## 4. DFS Technical Requirements and Radar Test Waveforms

### 4.1. DFS Overview

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

## 4.2. DFS Detection Thresholds

**Table 3 DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection**

| Maximum Transmit Power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Value<br>(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                          |
| <p><b>Note 1:</b> This is the level at the input of the receiver assuming a 0 dBi receive antenna.</p> <p><b>Note 2:</b> 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.</p> <p><b>Note3:</b> EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.</p> |                                  |

**Table 4 DFS Response Requirement Values**

| Parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Value                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Non-occupancy period                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Minimum 30 minutes                                                                                        |
| Channel Availability Check Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 60 seconds                                                                                                |
| Channel Move Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10 seconds<br>See Note 1.                                                                                 |
| Channel Closing Transmission Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period.<br>See Notes 1 and 2. |
| U-NII Detection Bandwidth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.                                   |
| <p><b>Note 1:</b> Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.</p> <p><b>Note 2:</b> The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.</p> <p><b>Note 3:</b> During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic</p> |                                                                                                           |

### 4.3. RADAR TEST WAVEFORMS

**Table 5 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          | 60%                                        | 30                       |
|                                                                                                                                             |                    | Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A |                  |                                            |                          |
| 2                                                                                                                                           | 1-5                | 150-230                                                                                                                                                       | 23-29            | 60%                                        | 30                       |
| 3                                                                                                                                           | 6-10               | 200-500                                                                                                                                                       | 16-18            | 60%                                        | 30                       |
| 4                                                                                                                                           | 11-20              | 200-500                                                                                                                                                       | 12-16            | 60%                                        | 30                       |
| Aggregate (Radar Types 1-4)                                                                                                                 |                    |                                                                                                                                                               |                  | 80%                                        | 120                      |
| <b>Note 1:</b> Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests. |                    |                                                                                                                                                               |                  |                                            |                          |

**Table 5a Pulse Repetition Intervals Values for Test A**

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

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%                                        |
| 3                                                    | 30               | 27                              | 90%                                        |
| 4                                                    | 50               | 44                              | 88%                                        |
| Aggregate $(82.9\% + 60\% + 90\% + 88\%)/4 = 80.2\%$ |                  |                                 |                                            |

**Table 6 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                       |

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.

**Table 7 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                       |

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 – 5724 MHz. 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.

#### 4.4. Test set-ups

We test the data stream using MPEG-X files.

Channel loading is based on IP.

##### Setup for Master with injection at the Master

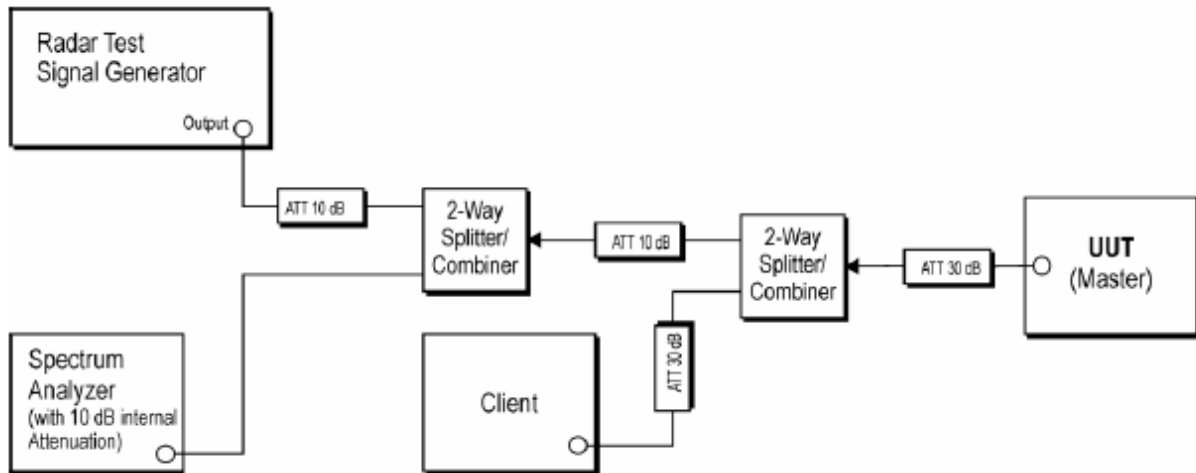


Figure 2: Example Conducted Setup where UUT is a Master and Radar Test Waveforms are injected into the Master

##### Setup for Client with injection at the Master

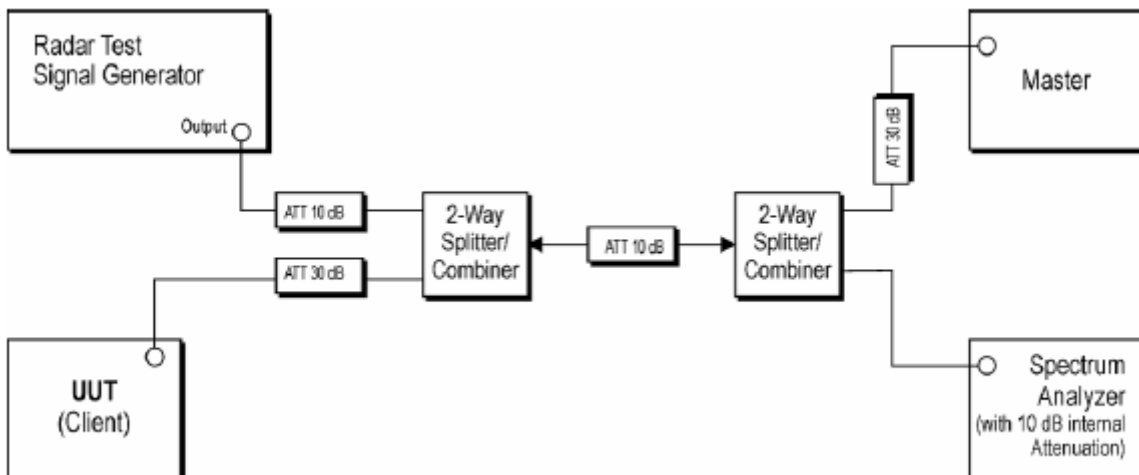


Figure 3: Example Conducted Setup where UUT is a Client and Radar Test Waveforms are injected into the Master

## Setup for Client with injection at the Client

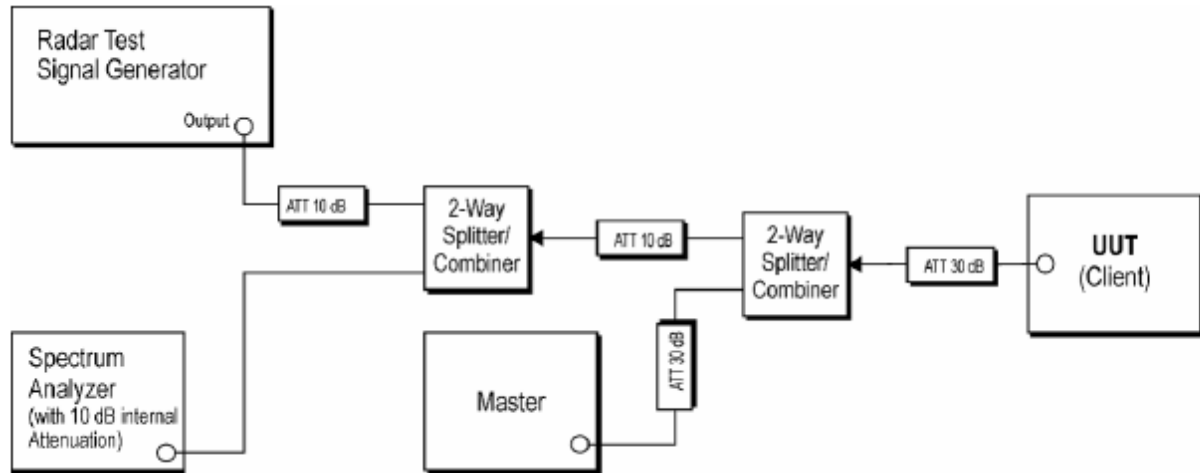


Figure 4: Example Conducted Setup where UUT is a Client and Radar Test Waveforms are injected into the Client



## 5. Test Case

### 5.1. DFS Detection Thresholds

#### Ambient condition

| Temperature | Relative humidity | Pressure |
|-------------|-------------------|----------|
| 23°C ~25°C  | 45%~50%           | 101.5kPa |

#### Methods of Measurement

Client with injection at the Master.

For a detection threshold level of -64dBm, the required signal strength at EUT antenna location is -64dBm, the tested level is lower than required level hence it provides margin to the limit.

| Frequency of Calibration |                   |
|--------------------------|-------------------|
| Bandwidth                | Central Frequency |
| 20MHz                    | 5300MHz           |
|                          | 5500MHz           |
| 40MHz                    | 5270MHz           |
|                          | 5550MHz           |
| 160MHz                   | 5250MHz           |
|                          | 5570MHz           |

#### Calibration Result

Refer to the section 6.1 of this report for test data.

## 5.2. U-NII Detection Bandwidth

### Ambient condition

| Temperature | Relative humidity | Pressure |
|-------------|-------------------|----------|
| 23°C ~25°C  | 45%~50%           | 101.5kPa |

### Methods of Measurement

- 1 Adjust the equipment to produce a single Burst of any one of the Short Pulse Radar Types 0 – 4 in **Table 5** at the center frequency of the EUT Operating Channel at the specified DFS Detection Threshold level found in **Table 3**.
- 2 Set the EUT up as a standalone device (no associated Client or Master, as appropriate) and no traffic. Frame based systems will be set to a talk/listen ratio reflecting the worst case (maximum) that is user configurable during this test.
- 3 Generate a single radar Burst, and note the response of the UUT. Repeat for a minimum of 10 trials. The EUT must detect the Radar Waveform within the DFS band using the specified U-NII Detection Bandwidth criterion shown in **Table 4**. In cases where the channel bandwidth may exceed past the DFS band edge on specific channels select a channel that has the entire emission bandwidth within the DFS band. If this is not possible, test the detection BW to the DFS band edge.
- 4 Starting at the center frequency of the EUT 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 specified in **Table 4**. 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 EUT 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 specified in **Table 4**. 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 The U-NII Detection Bandwidth must meet the U-NII Detection Bandwidth criterion specified in **Table 4**. Otherwise, the EUT does not comply with DFS requirements. This is essential to ensure that the EUT 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.

**Limits**

Rule FCC KDB 905462 7.8.1

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

**Measurement Uncertainty**

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 2$ ,  $U=0.44$  dB.

**Test Results**

Refer to the section 6.2 of this report for test data.

### 5.3. Channel Availability Check Time

#### Ambient condition

| Temperature | Relative humidity | Pressure |
|-------------|-------------------|----------|
| 23°C ~25°C  | 45%~50%           | 101.5kPa |

#### Methods of Measurement

##### Initial Channel Availability Check Time

The U-NII devices will be powered on and be instructed to operate on the appropriate U-NII Channel that must incorporate DFS functions. At the same time the EUT is powered on, the spectrum analyzer will be set to zero span mode with a 3 MHz RBW and 3 MHz VBW on the Channel occupied by the radar with a 2.5 minute sweep time.

The EUT should not transmit any beacon or data transmissions until at least 1 minute after the completion of the power-on cycle.

Confirm that the EUT initiates transmission on the channel

##### Radar Burst at the Beginning of the Channel Availability Check Time

The steps below define the procedure to verify successful radar detection on the test 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 beginning of the Channel Availability Check Time.

The Radar Waveform generator and EUT are connected using the applicable test setup described in the sections on configuration for Conducted Tests or Radiated Tests and the power of the EUT is switched off.

The EUT is powered on at  $T_0$ -  $T_1$  denotes the instant when the EUT has completed its power-up sequence ( $T_{\text{power\_up}}$ ). The Channel Availability Check Time commences on Chr at instant  $T_1$  and will end no sooner than  $T_1 + T_{\text{ch\_avail\_check}}$ .

A single Burst of one of the Short Pulse Radar Types 0-4 will commence within a 6 second window starting at  $T_1$ . An additional 1 dB is added to the radar test signal to ensure it is at or above the DFS Detection Threshold, accounting for equipment variations/errors.

Visual indication or measured results on the EUT of successful detection of the radar Burst will be recorded and reported. Observation of Chr for EUT emissions will continue for 2.5 minutes after the radar Burst has been generated.

Verify that during the 2.5 minute measurement window no EUT transmissions occurred on Chr. The Channel Availability Check results will be recorded.

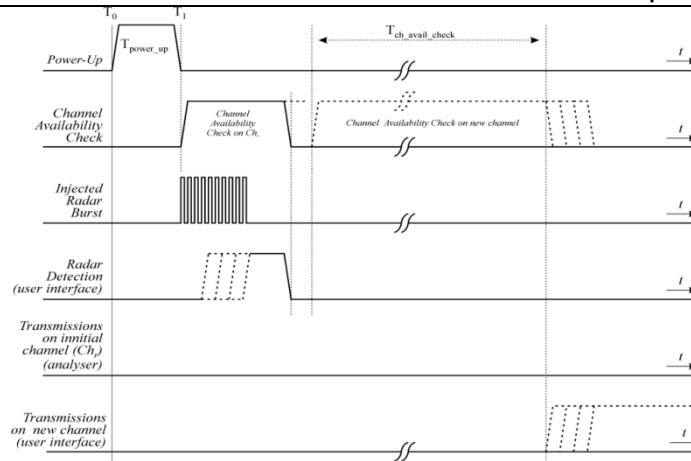


Figure: Example of timing for radar testing at the beginning of the Channel Availability Check Time

### Radar Burst at the End of the Channel Availability Check Time

The steps below define the procedure to verify successful radar detection on the test 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 + 1dB occurs at the end of the Channel Availability Check Time.

1. The Radar Waveform generator and EUT are connected using the applicable test setup described in the sections for Conducted Tests or Radiated Tests and the power of the EUT is switched off.
2. The EUT is powered on at  $T_0$  -  $T_1$  denotes the instant when the EUT has completed its power-up sequence ( $T_{\text{power\_up}}$ ). The Channel Availability Check Time commences on Chr at instant  $T_1$  and will end no sooner than  $T_1 + T_{\text{ch\_avail\_check}}$ .
3. A single Burst of one of the Short Pulse Radar Types 0-4 will commence within a 6 second window starting at  $T_1 + 54$  seconds. An additional 1 dB is added to the radar test signal to ensure it is at or above the DFS Detection Threshold, accounting for equipment variations/errors.
4. Visual indication or measured results on the EUT of successful detection of the radar Burst will be recorded and reported. Observation of Chr for EUT emissions will continue for 2.5 minutes after the radar Burst has been generated.
5. Verify that during the 2.5 minute measurement window no EUT transmissions occurred on Chr. The Channel Availability Check results will be recorded.

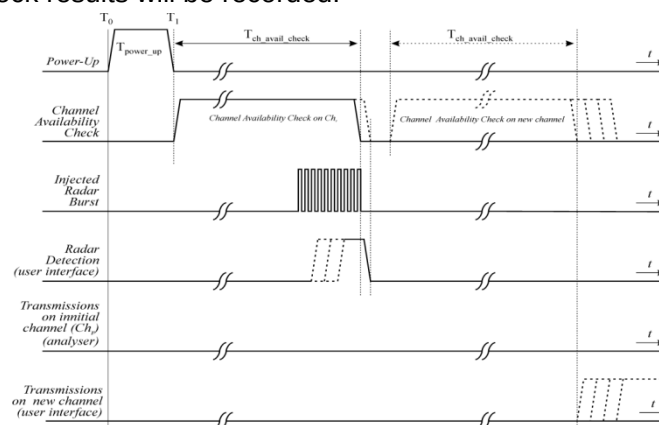


Figure : Example of timing for radar testing towards the end of the Channel Availability Check Time

**Limits**

|                                         |     |
|-----------------------------------------|-----|
| Initial Channel Availability Check Time | 60s |
|-----------------------------------------|-----|

**Measurement Uncertainty**

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 1.96$ .

**Test Results**

Refer to the section 6.3 of this report for test data.

## 5.4. Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period

### Ambient condition

| Temperature | Relative humidity | Pressure |
|-------------|-------------------|----------|
| 23°C ~25°C  | 45%~50%           | 101.5kPa |

### Methods of Measurement

These tests define how the following DFS parameters are verified during In-Service Monitoring;

- Channel Closing Transmission Time
- Channel Move Time
- Non-Occupancy Period

The steps below define the procedure to determine the above mentioned parameters 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).

1. One frequency will be chosen from the Operating Channels of the EUT within the 5250-5350 MHz or 5470-5725 MHz bands. For 802.11 devices, the test frequency must contain control signals. This can be verified by disabling channel loading and monitoring the spectrum analyzer. If no control signals are detected, another frequency must be selected within the emission bandwidth where control signals are detected.
2. In case the EUT is a U-NII device operating as a Client Device (with or without DFS), a U-NII device operating as a Master Device will be used to allow the EUT (Client device) to Associate with the Master Device. In case the EUT is a Master Device, a U-NII device operating as a Client Device will be used and it is assumed that the Client will Associate with the EUT (Master). In both cases for conducted tests, the Radar Waveform generator will be connected to the Master Device. For radiated tests, the emissions of the Radar Waveform generator will be directed towards the Master Device. If the Master Device has antenna gain, the main beam of the antenna will be directed toward the radar emitter. Vertical polarization is used for testing.
3. 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.
4. At time  $T_0$  the Radar Waveform generator sends a Burst of pulses for one of the Radar Type 0 in Table 5 at levels defined in Table 3, on the Operating Channel. An additional 1 dB is added to the radar test signal to ensure it is at or above the DFS Detection Threshold, accounting for equipment variations/errors.
5. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the EUT during the observation time (Channel Move Time). Measure and record the Channel Move Time and Channel Closing Transmission Time if radar detection occurs. Figure 17 illustrates Channel Closing

Transmission Time.

6. When operating as a Master Device, monitor the EUT for more than 30 minutes following instant  $T_2$  to verify that the EUT does not resume any transmissions on this Channel. Perform this test once and record the measurement result.

7. In case the EUT is a U-NII device operating as a Client Device with In-Service Monitoring, perform steps 1 to 6.

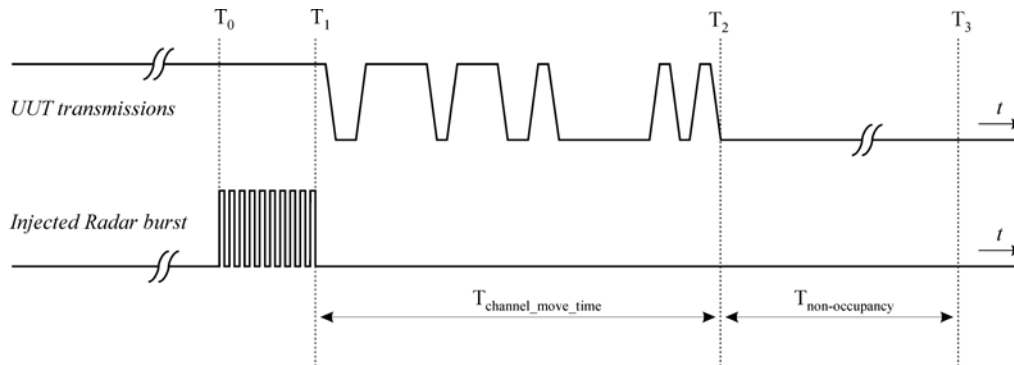


Figure 17: Example of Channel Closing Transmission Time & Channel Closing Time

## Limits

|                                   |                                                 |
|-----------------------------------|-------------------------------------------------|
| Channel Move Time                 | $\leq 10s$                                      |
| Channel Closing Transmission Time | $\leq 200ms + 60ms$ (over remaining 10s period) |
| Non-Occupancy Period              | $\geq 30min$                                    |

**Note 1:** Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

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

## Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 1.96$ ,  $U = 2.69$  dB.

## Test Results

Refer to the section 6.4 of this report for test data.



## 5.5. Statistical Performance Check

### Ambient condition

| Temperature | Relative humidity | Pressure |
|-------------|-------------------|----------|
| 23°C ~25°C  | 45%~50%           | 101.5kPa |

### Methods of Measurement

The steps below define the procedure to determine the minimum percentage of successful detection requirements found in Tables 5-7 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).

1. One frequency will be chosen from the Operating Channels of the UUT within the 5250-5350 MHz or 5470-5725 MHz bands.
2. In case the UUT is a U-NII device operating as a Client Device (with or without Radar Detection), a U-NII device operating as a Master Device will be used to allow the UUT (Client device) to Associate with the Master Device. In case the UUT is a Master Device, a U-NII device operating as a Client Device will be used and it is assumed that the Client will Associate with the UUT(Master). In both cases for conducted tests, the Radar Waveform generator will be connected to the Master Device. For radiated tests, the emissions of the Radar Waveform generator will be directed towards the Master Device. If the Master Device has antenna gain, the main beam of the antenna will be directed toward the radar emitter. Vertical polarization is used for testing.
3. 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.
4. At time T0 the Radar Waveform generator sends the individual waveform for each of the Radar Types 1- 6 in Tables 5-7, at levels defined in Table 3, on the Operating Channel. An additional 1 dB is added to the radar test signal to ensure it is at or above the DFS Detection Threshold, accounting for equipment variations/errors.
5. Observe the transmissions of the UUT at the end of the Burst on the Operating Channel for duration greater than 10 seconds for Radar Type 0 to ensure detection occurs.
6. Observe the transmissions of the UUT 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.
7. In case the UUT is a U-NII device operating as a Client Device with In-Service Monitoring, perform steps 1 to 6.

**Limits**

| Radar Type                     | Minimum Percentage of Successful Detection | Minimum Number of Trials |
|--------------------------------|--------------------------------------------|--------------------------|
| 1                              | 60%                                        | 30                       |
| 2                              | 60%                                        | 30                       |
| 3                              | 60%                                        | 30                       |
| 4                              | 60%                                        | 30                       |
| Aggregate<br>(Radar Types 1-4) | 80%                                        | 120                      |
| 5                              | 80%                                        | 30                       |
| 6                              | 70%                                        | 30                       |

**Measurement Uncertainty**

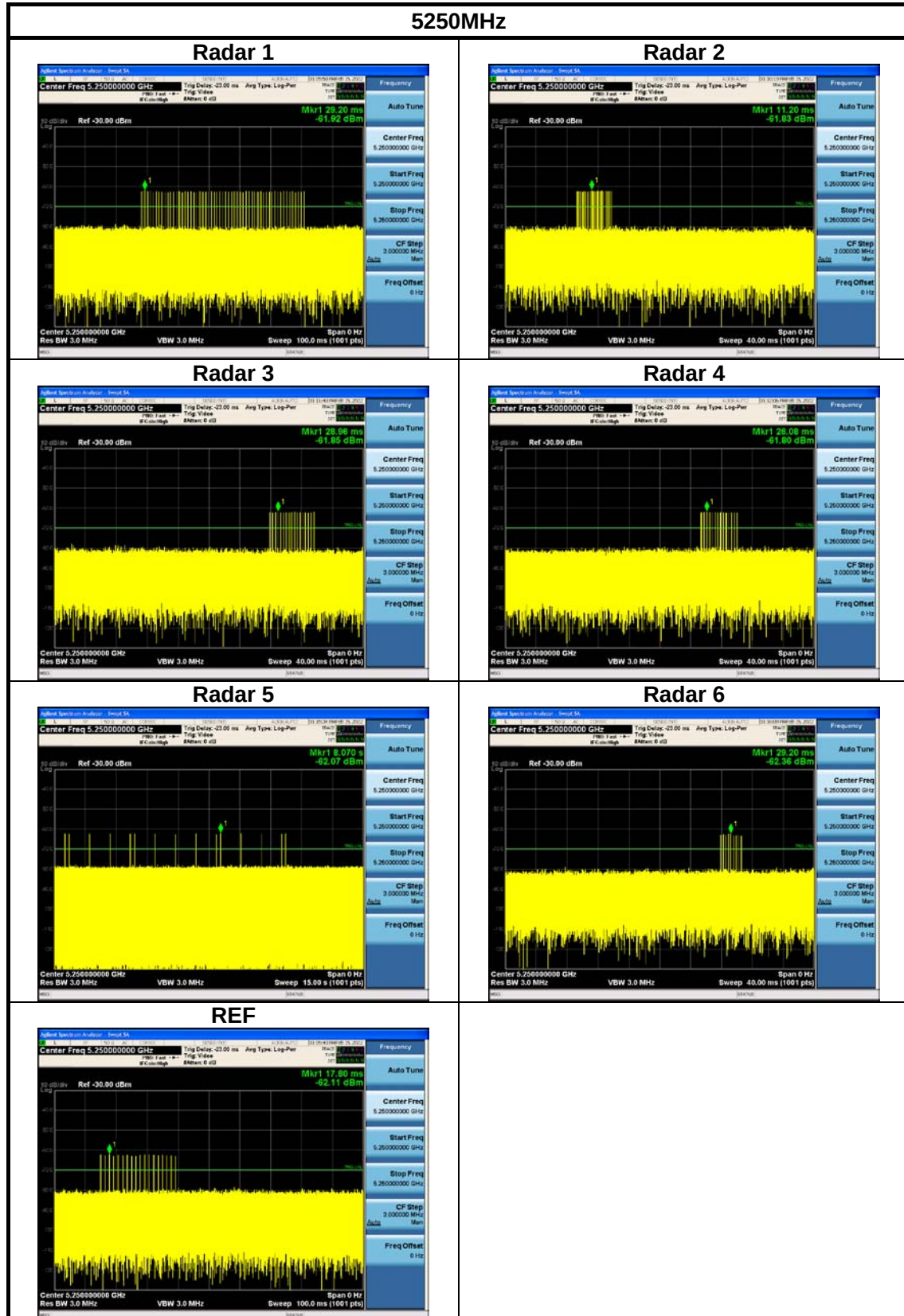
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 1.96$ ,  $U=2.69$  dB.

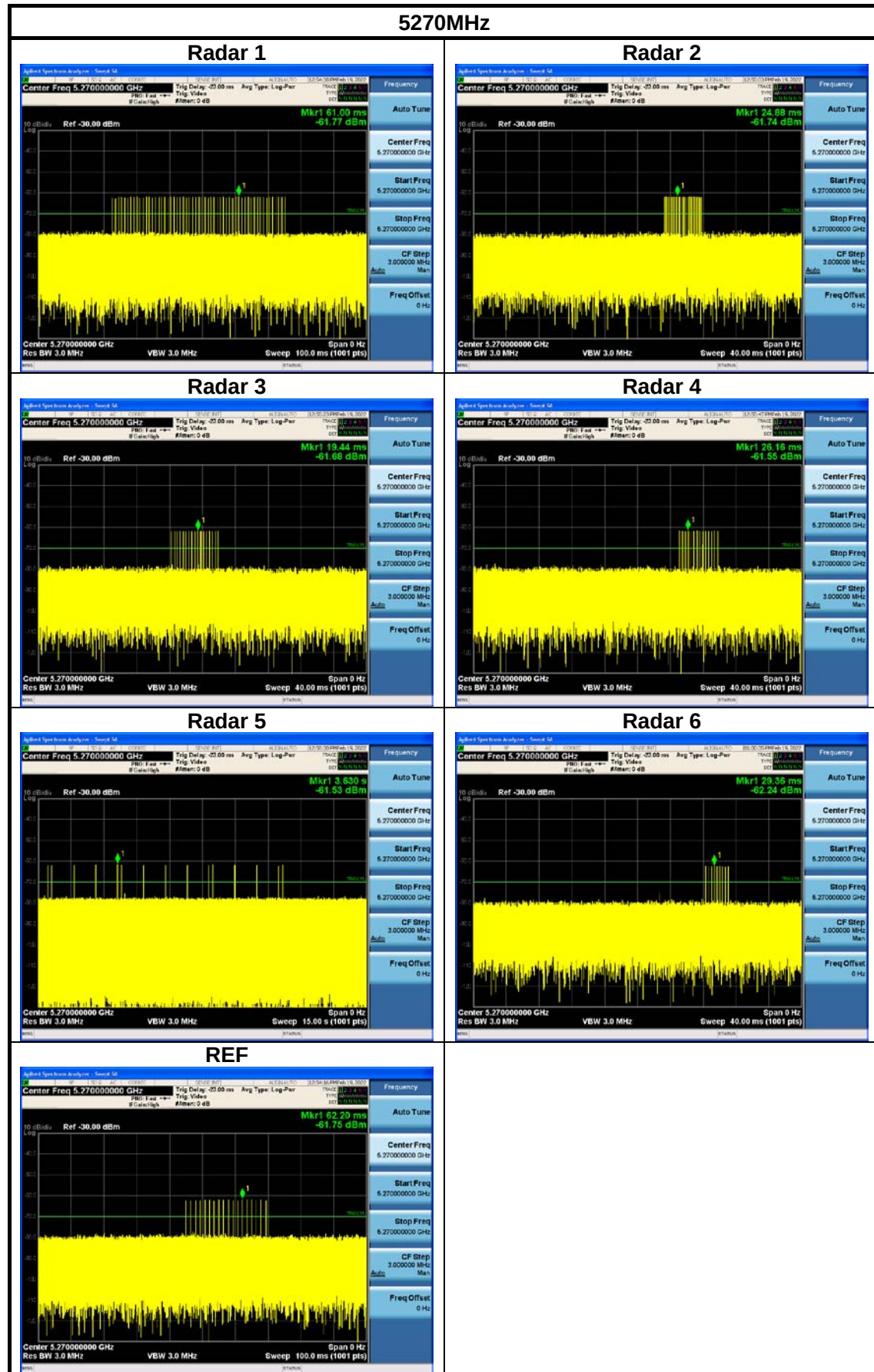
**Test Results**

Refer to the section 6.5 of this report for test data.

## 6. Test Results

### 6.1. DFS Detection Thresholds

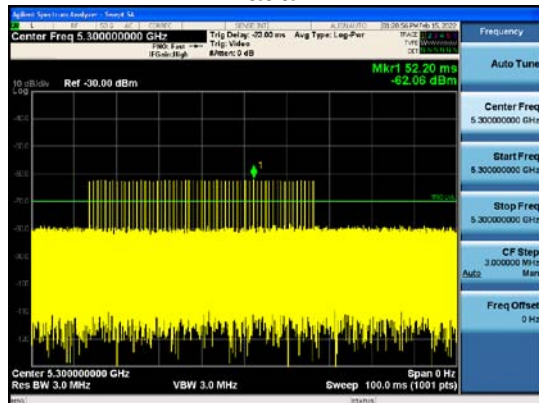




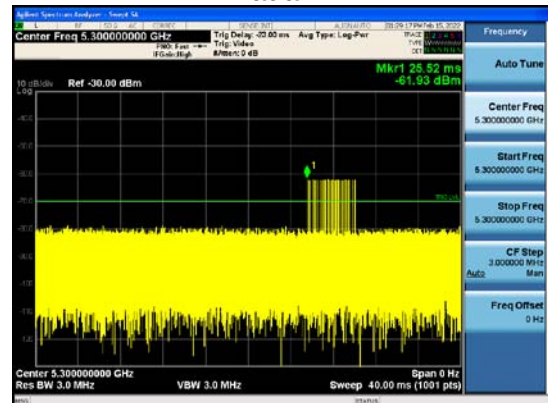


## 5300MHz

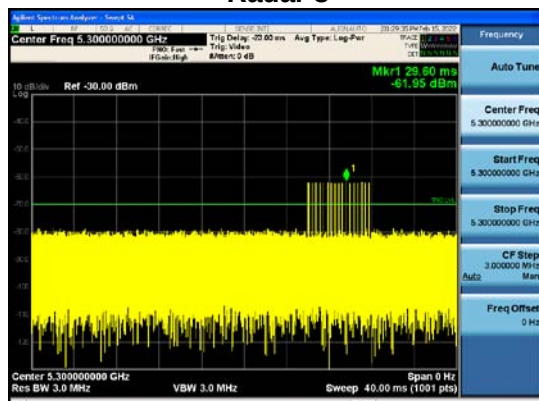
Radar 1



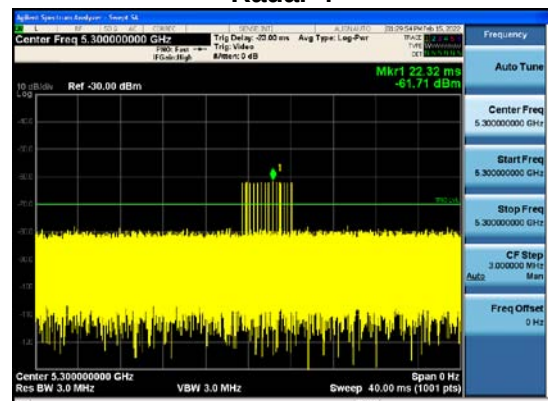
Radar 2



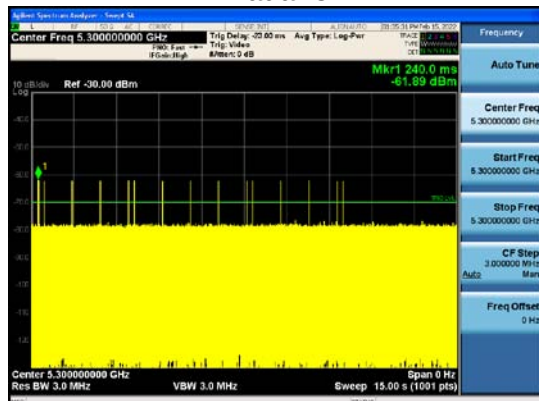
Radar 3



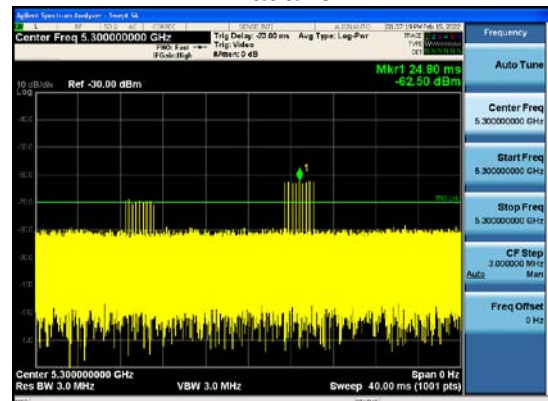
Radar 4



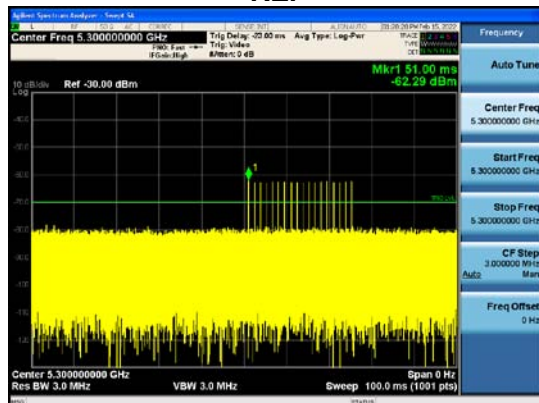
Radar 5



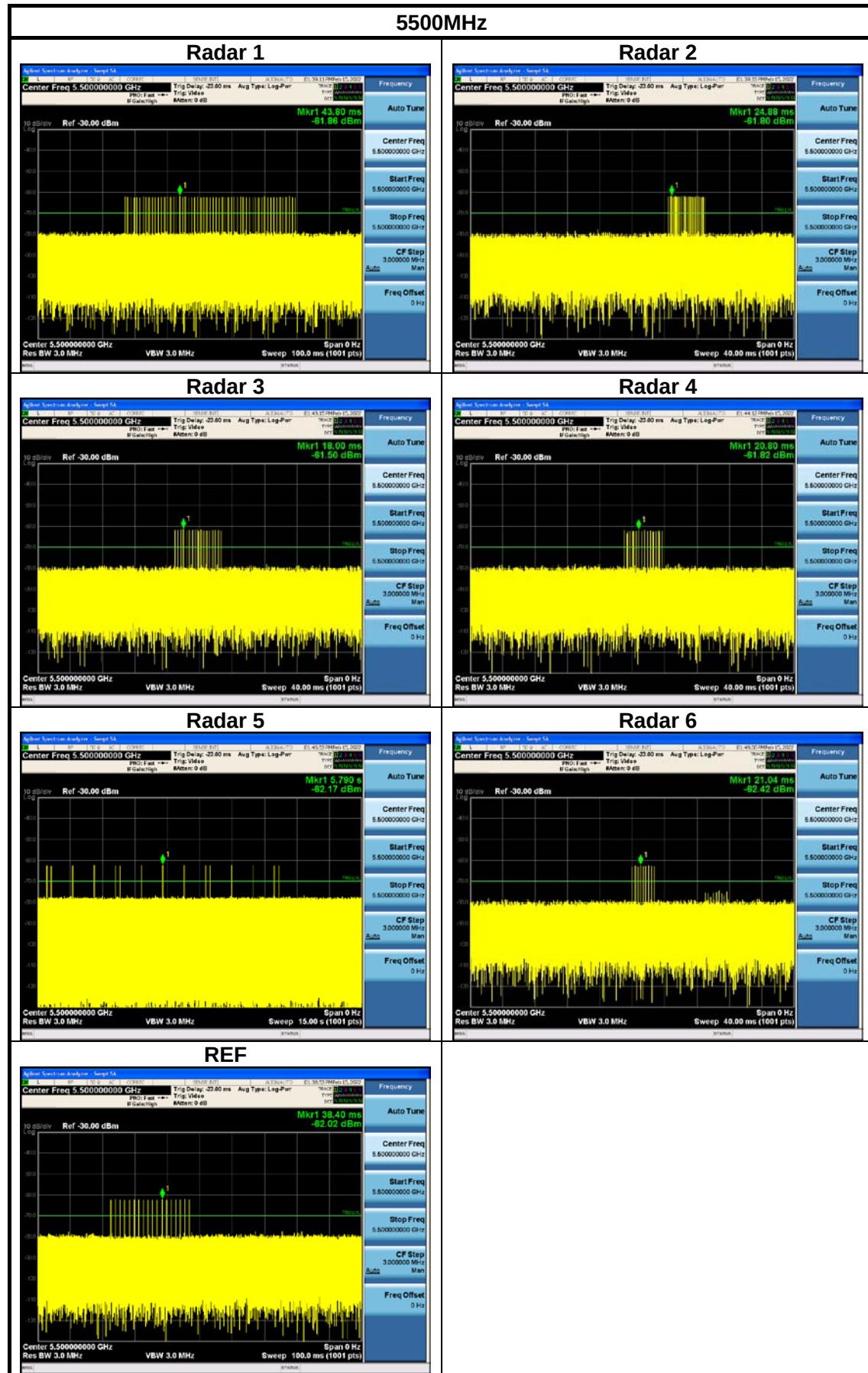
Radar 6

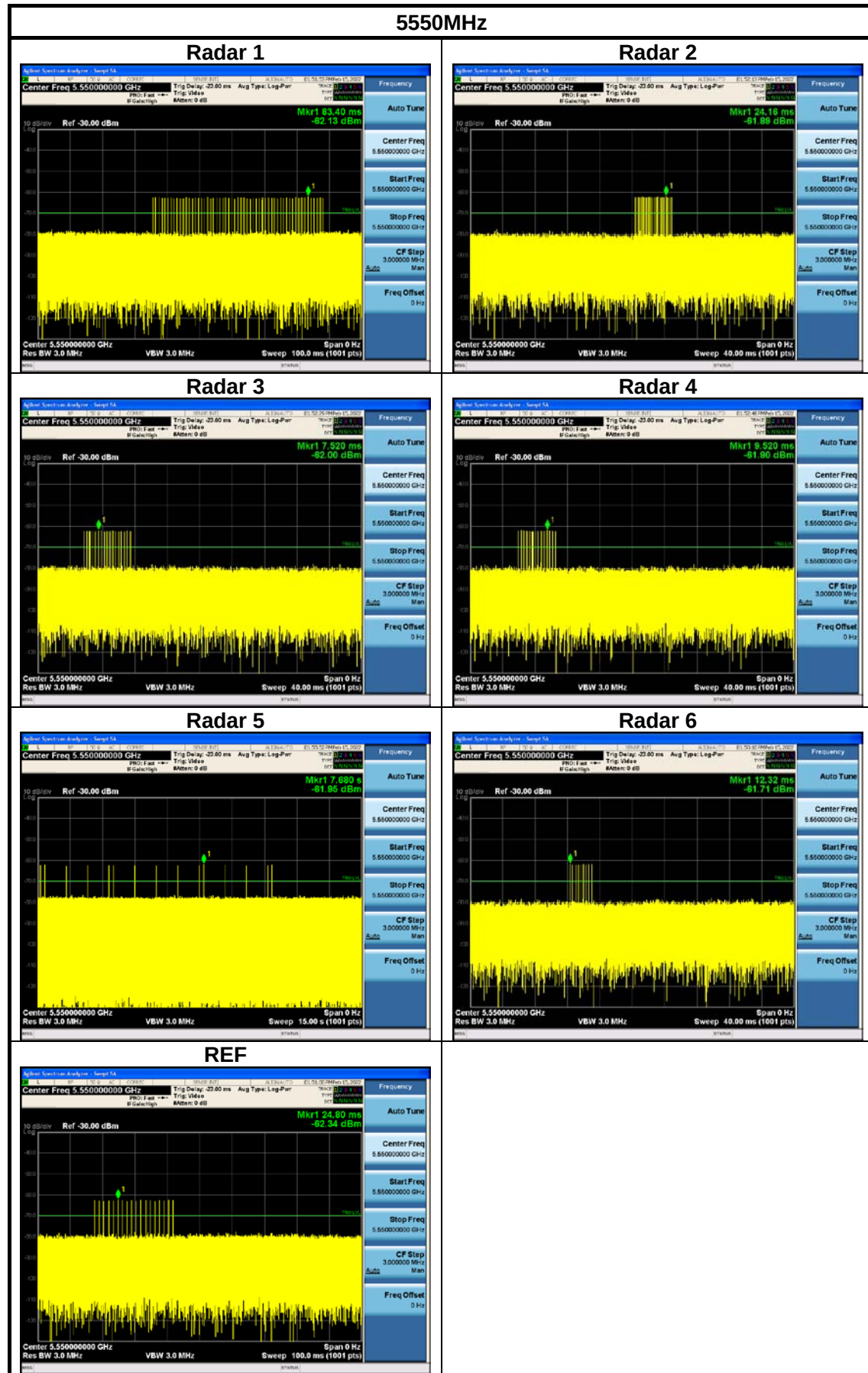


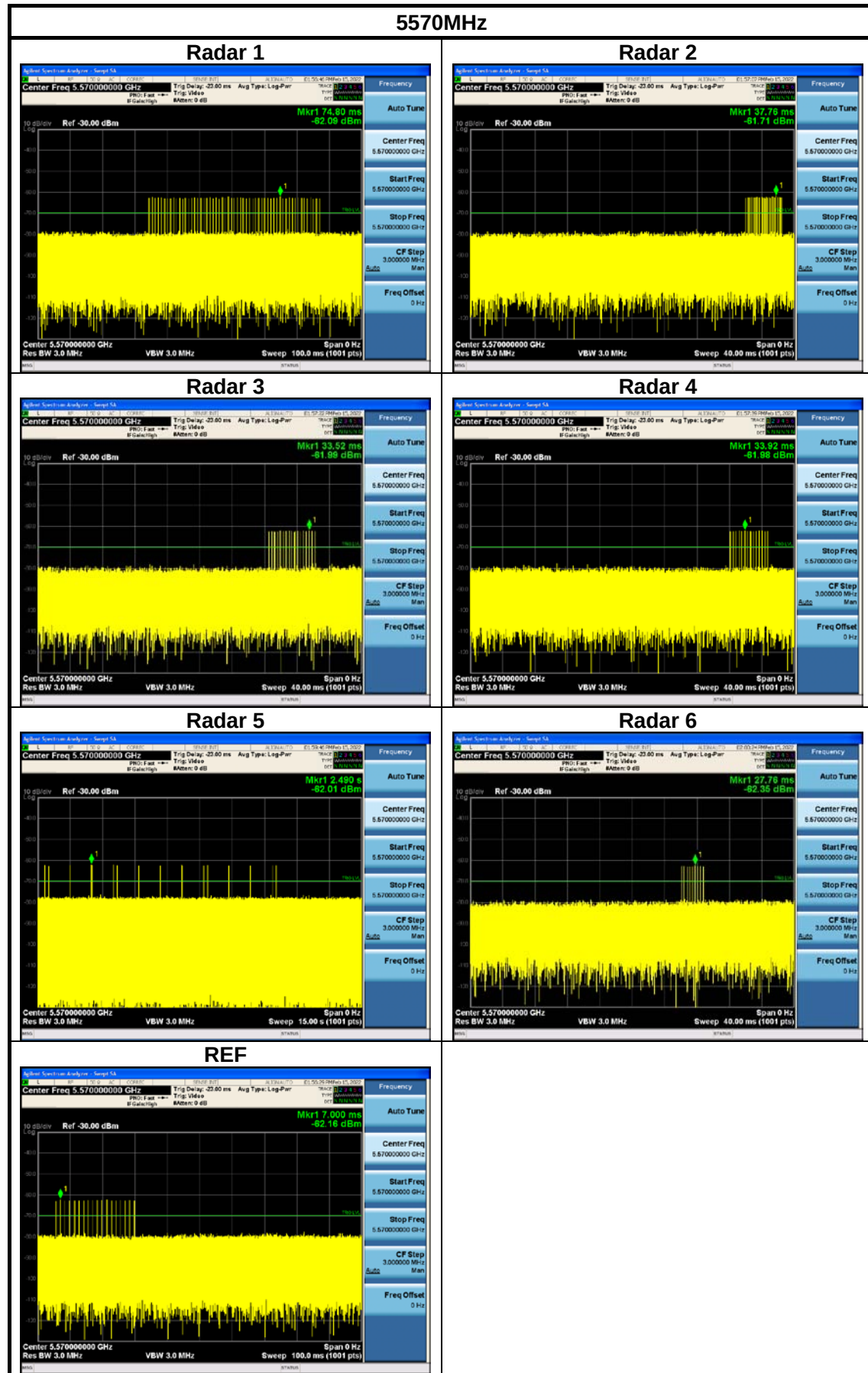
REF







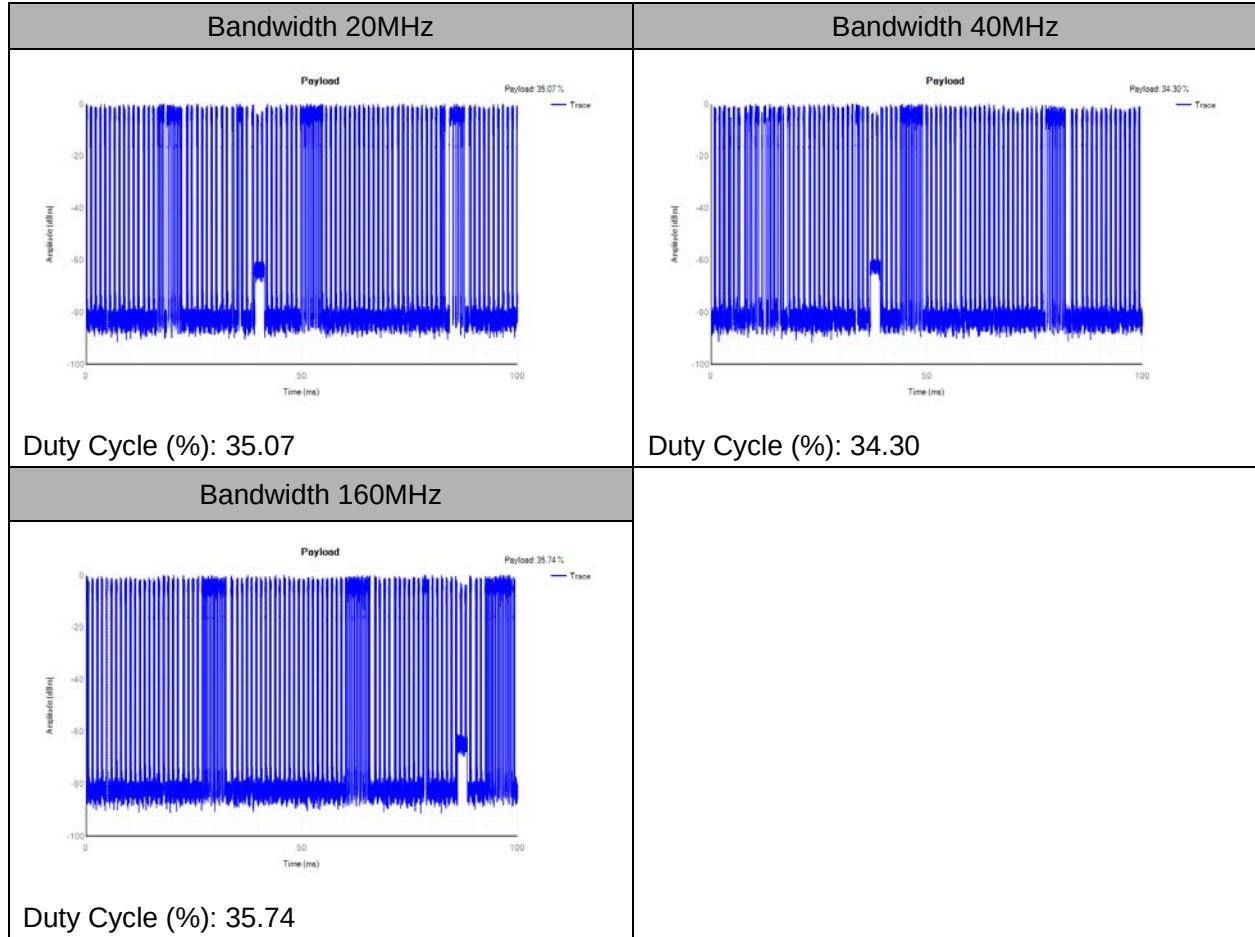






## 6.2. U-NII Detection Bandwidth

### Timing plot





Y=Detected; N=Non-detected

| Bandwidth | Frequency<br>(MHz) | Central Frequency: 5250 MHz |   |   |   |   |   |   |   |   |    |      |
|-----------|--------------------|-----------------------------|---|---|---|---|---|---|---|---|----|------|
|           |                    | 1                           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Rate |
| 160MHz    | 5330               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5329               | N                           | N | N | N | N | N | N | N | N | N  | 0%   |
|           | 5328 (FH)          | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5327               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5326               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5325               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5324               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5323               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5322               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5321               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5320               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5315               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5310               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5305               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5300               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5295               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5290               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5285               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5280               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5275               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5270               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5265               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5260               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5255               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5250               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5245               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5240               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5235               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5230               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5225               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5220               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5215               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5210               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5205               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5200               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5195               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5190               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5185               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5180               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5179               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |



|                            |           |                  |   |   |   |   |   |   |   |   |   |      |
|----------------------------|-----------|------------------|---|---|---|---|---|---|---|---|---|------|
|                            | 5178      | Y                | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100% |
|                            | 5177      | Y                | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100% |
|                            | 5176      | Y                | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100% |
|                            | 5175      | Y                | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100% |
|                            | 5174      | Y                | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100% |
|                            | 5173      | Y                | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100% |
|                            | 5172 (FL) | Y                | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100% |
|                            | 5171      | N                | N | N | N | N | N | N | N | N | N | 0%   |
|                            | 5170      | Y                | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100% |
| Detection Bandwidth>99%OCB |           | FH-FL=156>154.71 |   |   |   |   |   |   |   |   |   |      |

| Bandwidth                  | Frequency (MHz) | Central Frequency: 5270 MHz |   |   |   |   |   |   |   |   |    | Rate |
|----------------------------|-----------------|-----------------------------|---|---|---|---|---|---|---|---|----|------|
|                            |                 | 1                           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |      |
| 40 MHz                     | 5290            | N                           | N | N | N | N | N | N | N | N | N  | 0%   |
|                            | 5289(FH)        | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                            | 5288            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                            | 5287            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                            | 5286            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                            | 5285            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                            | 5280            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                            | 5275            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                            | 5270            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                            | 5265            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                            | 5260            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                            | 5255            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                            | 5254            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                            | 5253            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                            | 5252            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                            | 5251(FL)        | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                            | 5250            | N                           | N | N | N | N | N | N | N | N | N  | 0%   |
| Detection Bandwidth>99%OCB |                 | FH-FL= 38>37.664            |   |   |   |   |   |   |   |   |    |      |

| Bandwidth                    | Frequency (MHz) | Central Frequency: 5300 MHz |   |   |   |   |   |   |   |   |    |      |
|------------------------------|-----------------|-----------------------------|---|---|---|---|---|---|---|---|----|------|
|                              |                 | 1                           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Rate |
| 20 MHz                       | 5310 (FH)       | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                              | 5309            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                              | 5308            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                              | 5307            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                              | 5306            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                              | 5305            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                              | 5300            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                              | 5295            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                              | 5294            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                              | 5293            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                              | 5292            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                              | 5291            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                              | 5290 (FL)       | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
| Detection Bandwidth > 99%OCB |                 | FH-FL= 20>19.036            |   |   |   |   |   |   |   |   |    |      |

| Bandwidth                    | Frequency (MHz) | Central Frequency: 5500 MHz |   |   |   |   |   |   |   |   |    |      |
|------------------------------|-----------------|-----------------------------|---|---|---|---|---|---|---|---|----|------|
|                              |                 | 1                           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Rate |
| 20 MHz                       | 5510 (FH)       | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                              | 5509            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                              | 5508            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                              | 5507            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                              | 5506            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                              | 5505            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                              | 5500            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                              | 5495            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                              | 5494            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                              | 5493            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                              | 5492            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                              | 5491            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                              | 5490 (FL)       | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
| Detection Bandwidth > 99%OCB |                 | FH-FL= 20>19.040            |   |   |   |   |   |   |   |   |    |      |

| Bandwidth                    | Frequency (MHz) | Central Frequency: 5550 MHz |   |   |   |   |   |   |   |   |    |      |
|------------------------------|-----------------|-----------------------------|---|---|---|---|---|---|---|---|----|------|
|                              |                 | 1                           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Rate |
| 40 MHz                       | 5570            | N                           | N | N | N | N | N | N | N | N | N  | 0%   |
|                              | 5569 (FH)       | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                              | 5568            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                              | 5567            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                              | 5566            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                              | 5565            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                              | 5560            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                              | 5555            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                              | 5550            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                              | 5545            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                              | 5540            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                              | 5535            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                              | 5534            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                              | 5533            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                              | 5532            | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                              | 5531 (FL)       | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|                              | 5530            | N                           | N | N | N | N | N | N | N | N | N  | 0%   |
| Detection Bandwidth > 99%OCB |                 | FH-FL=38>37.605             |   |   |   |   |   |   |   |   |    |      |



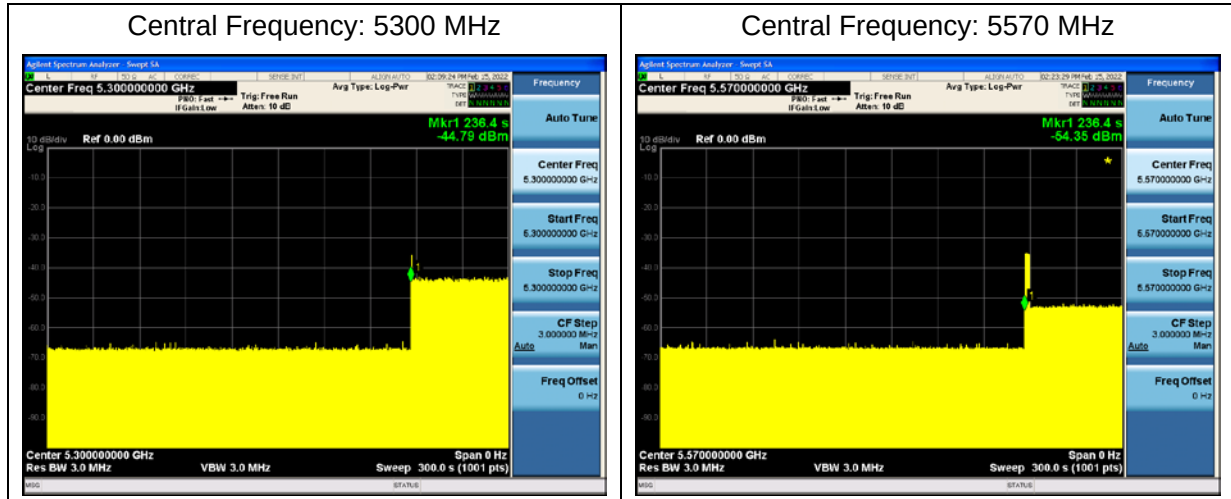
| Bandwidth | Frequency<br>(MHz) | Central Frequency: 5570 MHz |   |   |   |   |   |   |   |   |    |      |
|-----------|--------------------|-----------------------------|---|---|---|---|---|---|---|---|----|------|
|           |                    | 1                           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Rate |
| 160MHz    | 5650               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5649               | N                           | N | N | N | N | N | N | N | N | N  | 0%   |
|           | 5648 (FH)          | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5647               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5646               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5645               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5644               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5643               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5642               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5641               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5640               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5635               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5630               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5625               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5620               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5615               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5610               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5605               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5600               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5595               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5590               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5585               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5580               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5575               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5570               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5565               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5560               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5555               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5550               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5545               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5540               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5535               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5530               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5525               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5520               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5515               | 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% |
|           | 5500               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |
|           | 5499               | Y                           | Y | Y | Y | Y | Y | Y | Y | Y | Y  | 100% |

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|                            |          |                  |   |   |   |   |   |   |   |   |   |      |
|----------------------------|----------|------------------|---|---|---|---|---|---|---|---|---|------|
|                            | 5498     | Y                | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100% |
|                            | 5497     | Y                | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100% |
|                            | 5496     | Y                | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100% |
|                            | 5495     | Y                | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100% |
|                            | 5494     | Y                | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100% |
|                            | 5493     | Y                | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100% |
|                            | 5492(FL) | Y                | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100% |
|                            | 5491     | N                | N | N | N | N | N | N | N | N | N | 0%   |
|                            | 5490     | Y                | Y | Y | Y | Y | Y | Y | Y | Y | Y | 100% |
| Detection Bandwidth>99%OCB |          | FH-FL=156>154.53 |   |   |   |   |   |   |   |   |   |      |

## 5.6. Channel Availability Check Time

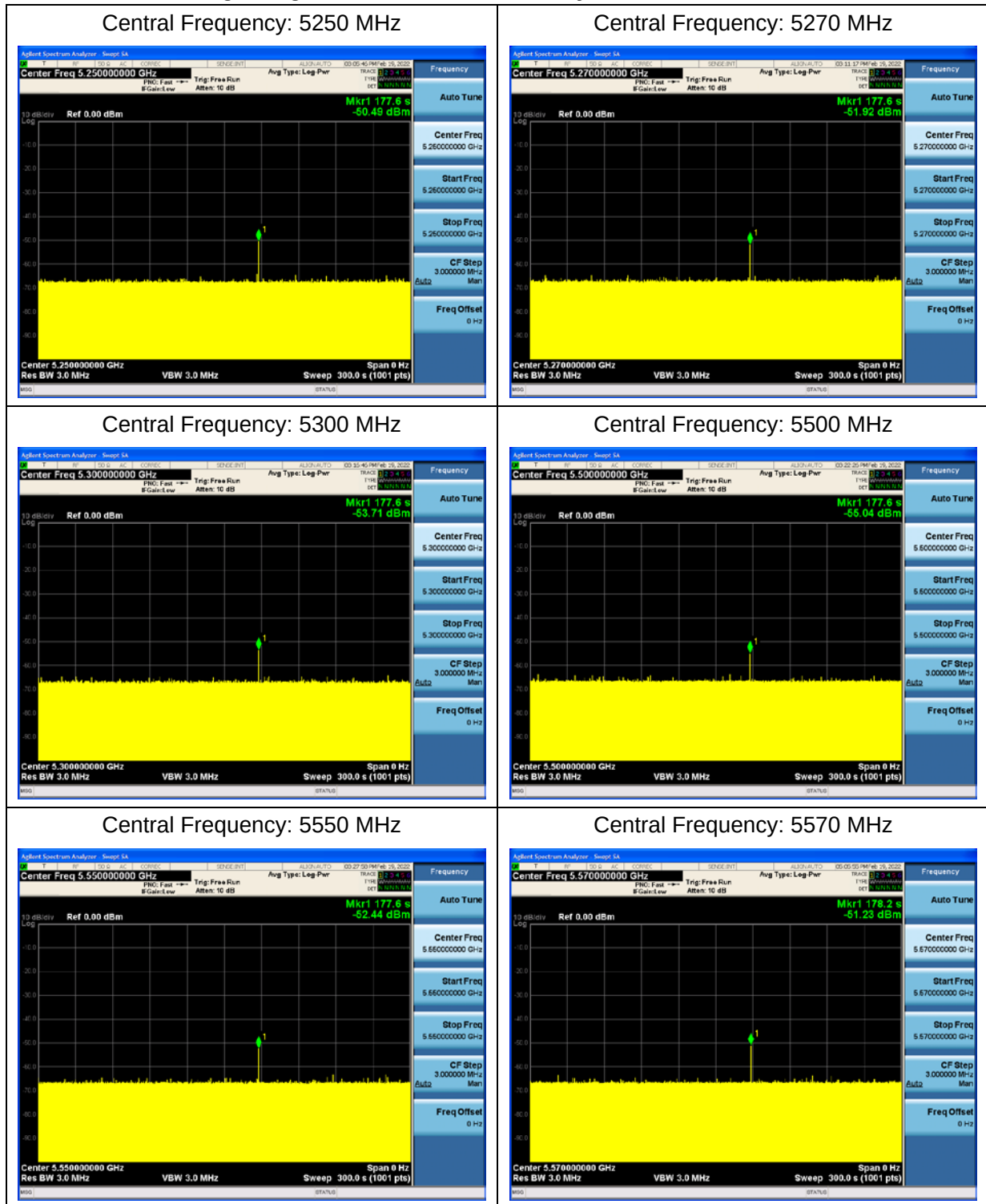
### Initial Channel Availability Check Time





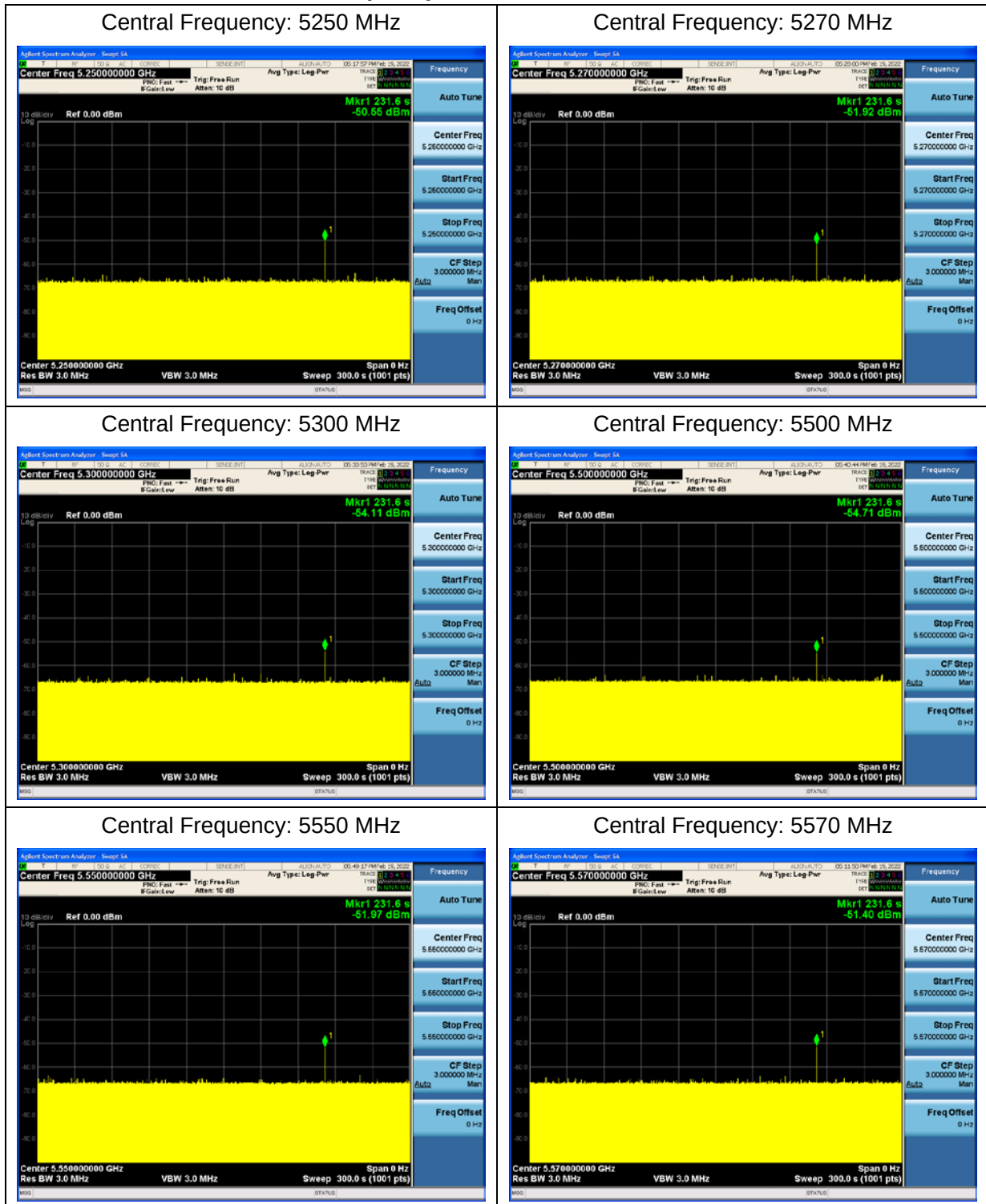


## Radar Burst at the Beginning of the Channel Availability Check Time



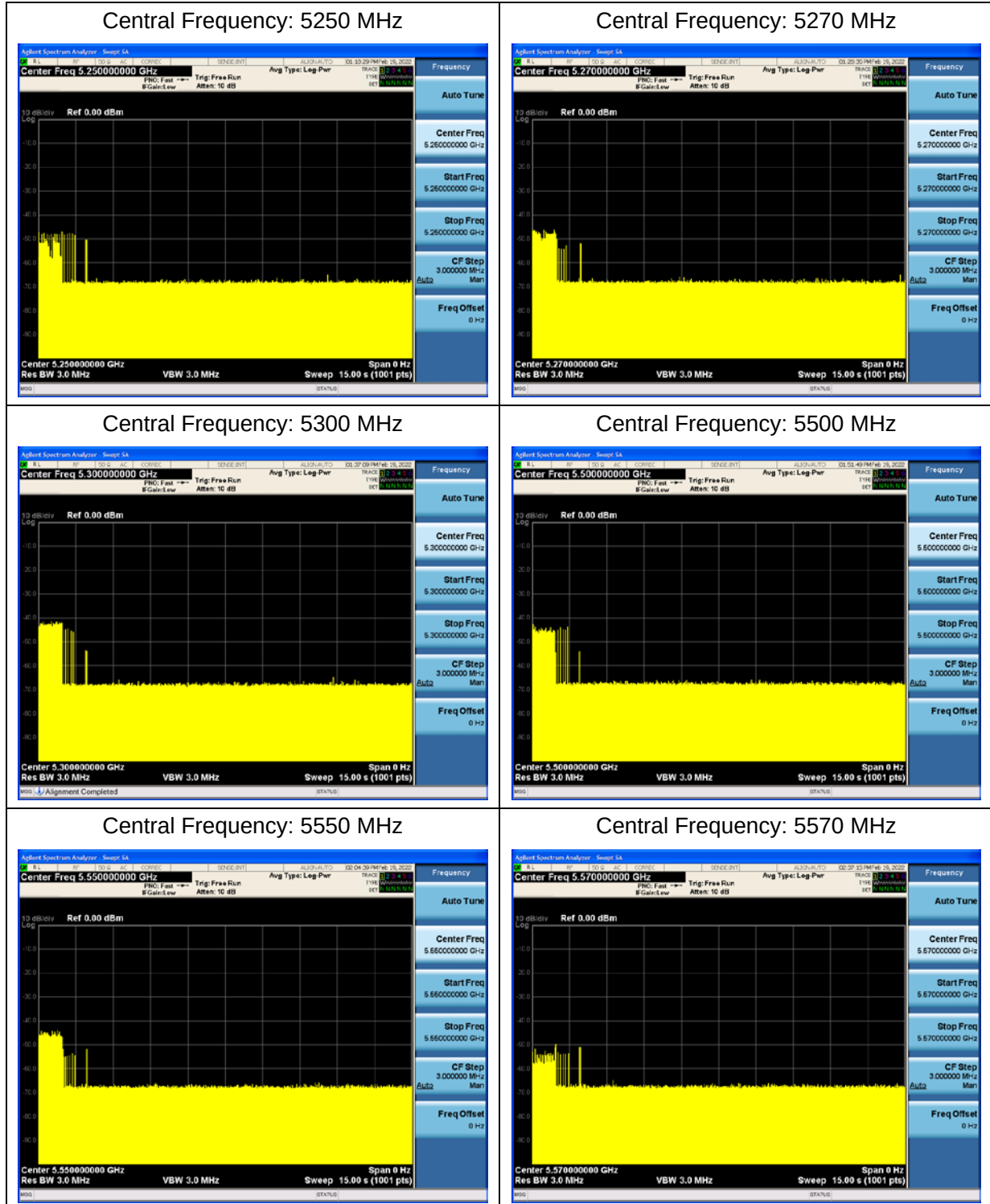


## Radar Burst at the End Central Frequency: 5500 MHz



## 5.7. Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period

### Channel Move Time



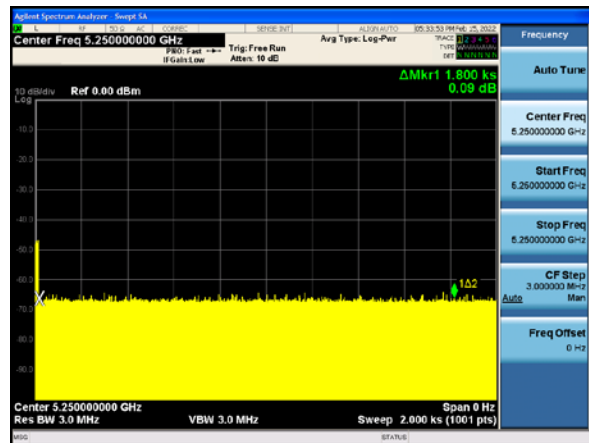
## Channel Closing Transmission Time



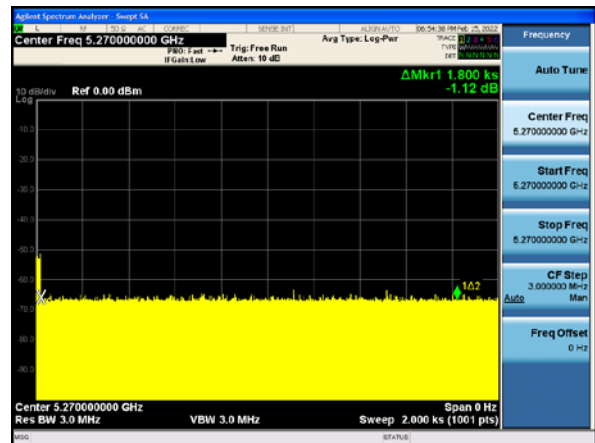


## Non-Occupancy Period

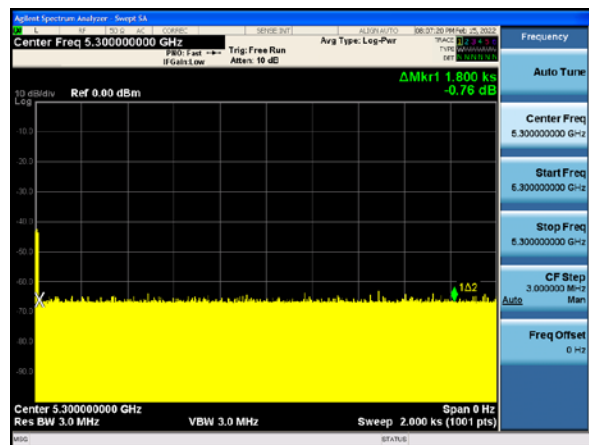
Central Frequency: 5250 MHz



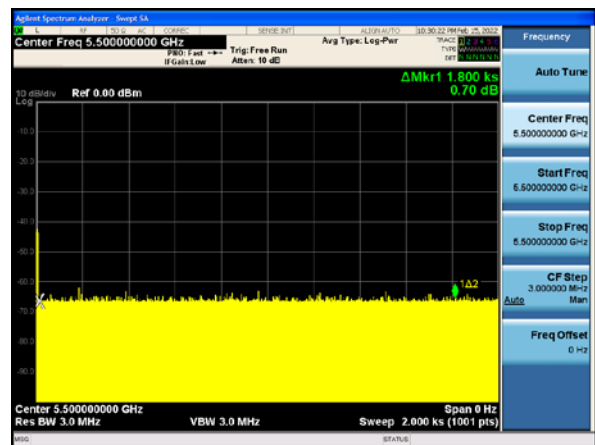
Central Frequency: 5270 MHz



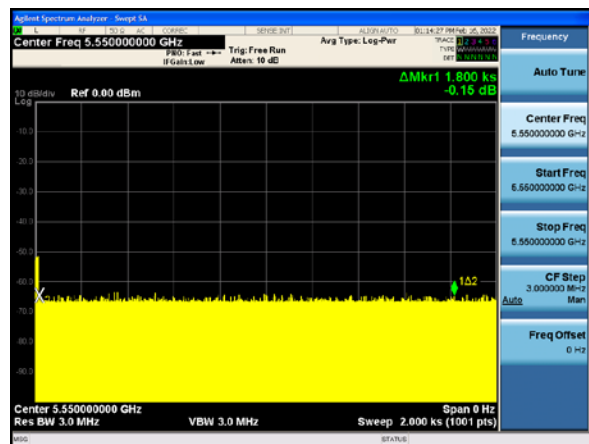
Central Frequency: 5300 MHz



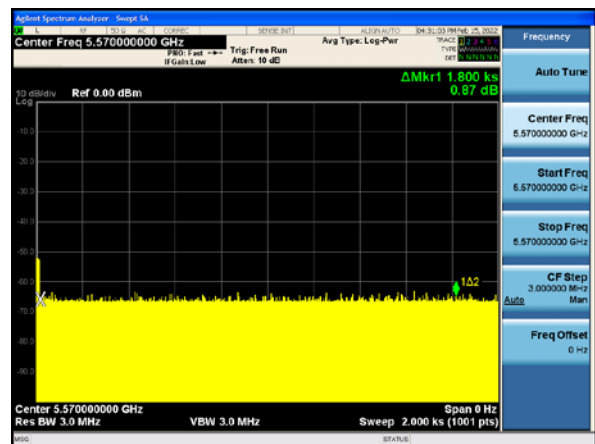
Central Frequency: 5500 MHz



Central Frequency: 5550 MHz



Central Frequency: 5570 MHz



## 5.8. Statistical Performance Check

Y=Detected; N=Non-detected

| Operating Freq<br>(MHz) | Radar Type                     | Test Result | Limit |
|-------------------------|--------------------------------|-------------|-------|
| ☒5250                   | 1                              | 100%        | 60%   |
|                         | 2                              | 100%        | 60%   |
|                         | 3                              | 97%         | 60%   |
|                         | 4                              | 100%        | 60%   |
|                         | Aggregate<br>(Radar Types 1-4) | 99.25%      | 80%   |
|                         | 5                              | 100%        | 80%   |
|                         | 6                              | 100%        | 70%   |
| ☒5270                   | 1                              | 100%        | 60%   |
|                         | 2                              | 100%        | 60%   |
|                         | 3                              | 100%        | 60%   |
|                         | 4                              | 100%        | 60%   |
|                         | Aggregate<br>(Radar Types 1-4) | 100%        | 80%   |
|                         | 5                              | 97%         | 80%   |
|                         | 6                              | 100%        | 70%   |
| ☒5300                   | 1                              | 100%        | 60%   |
|                         | 2                              | 100%        | 60%   |
|                         | 3                              | 100%        | 60%   |
|                         | 4                              | 100%        | 60%   |
|                         | Aggregate<br>(Radar Types 1-4) | 100%        | 80%   |
|                         | 5                              | 94%         | 80%   |
|                         | 6                              | 100%        | 70%   |
| ☒5500                   | 1                              | 100%        | 60%   |
|                         | 2                              | 100%        | 60%   |
|                         | 3                              | 100%        | 60%   |
|                         | 4                              | 100%        | 60%   |
|                         | Aggregate<br>(Radar Types 1-4) | 100%        | 80%   |
|                         | 5                              | 100%        | 80%   |
|                         | 6                              | 100%        | 70%   |



|       |                                |       |     |
|-------|--------------------------------|-------|-----|
| ☒5550 | 1                              | 100%  | 60% |
|       | 2                              | 100%  | 60% |
|       | 3                              | 97%   | 60% |
|       | 4                              | 97%   | 60% |
|       | Aggregate<br>(Radar Types 1-4) | 98.5% | 80% |
|       | 5                              | 100%  | 80% |
|       | 6                              | 100%  | 70% |
| ☒5570 | 1                              | 100%  | 60% |
|       | 2                              | 100%  | 60% |
|       | 3                              | 100%  | 60% |
|       | 4                              | 100%  | 60% |
|       | Aggregate<br>(Radar Types 1-4) | 100%  | 80% |
|       | 5                              | 100%  | 80% |
|       | 6                              | 100%  | 70% |



**5250MHz, Radar 1**

| Trial Id             | Radar Type | Pulse Width(μs) | PRI (μs) | Number of Pulses | Waveform Length (μs) | 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              | Y          |
| 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              | Y          |
| 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              | Y          |
| 24                   | 1          | 1.0             | 2878.0   | 19               | 54682.0              | Y          |
| 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              | Y          |
| 29                   | 1          | 1.0             | 1177.0   | 45               | 52965.0              | Y          |
| Detection rate: 100% |            |                 |          |                  |                      |            |



**5250MHz, Radar 2**

| Trial Id             | Radar Type | Pulse Width(μs) | PRI (μs) | Number of Pulses | Waveform Length (μs) | 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               | Y          |
| 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               | 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                 | Y          |
| 23                   | 2          | 2.9             | 202.0    | 26               | 5252.0               | Y          |
| 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               | Y          |
| 29                   | 2          | 4.2             | 159.0    | 28               | 4452.0               | Y          |
| Detection rate: 100% |            |                 |          |                  |                      |            |

**5250MHz, Radar 3**

| Trial Id            | Radar Type | Pulse Width(μs) | PRI (μs) | Number of Pulses | Waveform Length (μs) | 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               | Y          |
| 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: 97% |            |                 |          |                  |                      |            |

**5250MHz, Radar 4**

| Trial Id             | Radar Type | Pulse Width( $\mu$ s) | PRI ( $\mu$ s) | Number of Pulses | Waveform Length ( $\mu$ s) | conclusion |
|----------------------|------------|-----------------------|----------------|------------------|----------------------------|------------|
| 0                    | 4          | 16.0                  | 355.0          | 14               | 4970.0                     | Y          |
| 1                    | 4          | 11.3                  | 487.0          | 12               | 5844.0                     | Y          |
| 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                     | Y          |
| 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                     | Y          |
| 16                   | 4          | 19.9                  | 324.0          | 16               | 5184.0                     | Y          |
| 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                     | Y          |
| 20                   | 4          | 17.1                  | 373.0          | 15               | 5595.0                     | Y          |
| 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: 100% |            |                       |                |                  |                            |            |

**5250MHz, Radar 5**

| Trial Id             | Radar Type | Number of Pulses | Chip Width (MHz) | Burst Period (s) | Waveform Length (μs) | Center Frequency (MHZ) | conclusion |
|----------------------|------------|------------------|------------------|------------------|----------------------|------------------------|------------|
| 0                    | 5          | 15               | 13               | 0.8000000        | 12.0                 | 5.2700                 | Y          |
| 1                    | 5          | 8                | 19               | 1.5000000        | 12.0                 | 5.2700                 | Y          |
| 2                    | 5          | 11               | 11               | 1.0909091        | 12.0                 | 5.2700                 | Y          |
| 3                    | 5          | 20               | 12               | 0.6000000        | 12.0                 | 5.2700                 | Y          |
| 4                    | 5          | 17               | 6                | 0.7058824        | 12.0                 | 5.2700                 | Y          |
| 5                    | 5          | 14               | 15               | 0.8571429        | 12.0                 | 5.2700                 | Y          |
| 6                    | 5          | 15               | 16               | 0.8000000        | 12.0                 | 5.2700                 | Y          |
| 7                    | 5          | 12               | 17               | 1.0000000        | 12.0                 | 5.2700                 | Y          |
| 8                    | 5          | 14               | 19               | 0.8571429        | 12.0                 | 5.2700                 | Y          |
| 9                    | 5          | 8                | 12               | 1.5000000        | 12.0                 | 5.2700                 | Y          |
| 10                   | 5          | 17               | 7                | 0.7058824        | 12.0                 | 5.2564                 | Y          |
| 11                   | 5          | 19               | 11               | 0.6315789        | 12.0                 | 5.2576                 | Y          |
| 12                   | 5          | 15               | 14               | 0.8000000        | 12.0                 | 5.2552                 | Y          |
| 13                   | 5          | 12               | 16               | 1.0000000        | 12.0                 | 5.2540                 | Y          |
| 14                   | 5          | 19               | 9                | 0.6315789        | 12.0                 | 5.2572                 | Y          |
| 15                   | 5          | 14               | 16               | 0.8571429        | 12.0                 | 5.2548                 | Y          |
| 16                   | 5          | 20               | 13               | 0.6000000        | 12.0                 | 5.2580                 | Y          |
| 17                   | 5          | 12               | 7                | 1.0000000        | 12.0                 | 5.2540                 | Y          |
| 18                   | 5          | 14               | 10               | 0.8571429        | 12.0                 | 5.2548                 | Y          |
| 19                   | 5          | 12               | 19               | 1.0000000        | 12.0                 | 5.2540                 | Y          |
| 20                   | 5          | 16               | 12               | 0.7500000        | 12.0                 | 5.2840                 | Y          |
| 21                   | 5          | 12               | 14               | 1.0000000        | 12.0                 | 5.2864                 | Y          |
| 22                   | 5          | 20               | 9                | 0.6000000        | 12.0                 | 5.2820                 | Y          |
| 23                   | 5          | 14               | 14               | 0.8571429        | 12.0                 | 5.2852                 | Y          |
| 24                   | 5          | 13               | 6                | 0.9230769        | 12.0                 | 5.2856                 | Y          |
| 25                   | 5          | 8                | 7                | 1.5000000        | 12.0                 | 5.2880                 | Y          |
| 26                   | 5          | 17               | 18               | 0.7058824        | 12.0                 | 5.2836                 | Y          |
| 27                   | 5          | 19               | 16               | 0.6315789        | 12.0                 | 5.2824                 | Y          |
| 28                   | 5          | 12               | 17               | 1.0000000        | 12.0                 | 5.2860                 | Y          |
| 29                   | 5          | 18               | 16               | 0.6666667        | 12.0                 | 5.2832                 | Y          |
| Detection rate: 100% |            |                  |                  |                  |                      |                        |            |

**5270MHZ, Radar 6**

| Trial Id             | Radar Type | Pulse Width(μs) | PRI (μs) | 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                       | Y          |
| 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                       | Y          |
| 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                       | Y          |
| 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: 100% |            |                 |          |                |                    |                              |                          |            |

**5270MHz, Radar 1**

| Trial Id             | Radar Type | Pulse Width(μs) | PRI (μs) | Number of Pulses | Waveform Length (μs) | 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              | Y          |
| 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              | Y          |
| 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              | Y          |
| 24                   | 1          | 1.0             | 2878.0   | 19               | 54682.0              | Y          |
| 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              | Y          |
| 29                   | 1          | 1.0             | 1177.0   | 45               | 52965.0              | Y          |
| Detection rate: 100% |            |                 |          |                  |                      |            |

**5270MHz, Radar 2**

| Trial Id             | Radar Type | Pulse Width(μs) | PRI (μs) | Number of Pulses | Waveform Length (μs) | 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               | Y          |
| 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               | 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                 | Y          |
| 23                   | 2          | 2.9             | 202.0    | 26               | 5252.0               | Y          |
| 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               | Y          |
| 29                   | 2          | 4.2             | 159.0    | 28               | 4452.0               | Y          |
| Detection rate: 100% |            |                 |          |                  |                      |            |

**5270MHz, Radar 3**

| Trial Id             | Radar Type | Pulse Width(μs) | PRI (μs) | Number of Pulses | Waveform Length (μs) | 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               | Y          |
| 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               | Y          |
| 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: 100% |            |                 |          |                  |                      |            |



**5270MHz, Radar 4**

| Trial Id             | Radar Type | Pulse Width( $\mu$ s) | PRI ( $\mu$ s) | Number of Pulses | Waveform Length ( $\mu$ s) | conclusion |
|----------------------|------------|-----------------------|----------------|------------------|----------------------------|------------|
| 0                    | 4          | 16.0                  | 355.0          | 14               | 4970.0                     | Y          |
| 1                    | 4          | 11.3                  | 487.0          | 12               | 5844.0                     | Y          |
| 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                     | Y          |
| 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                     | Y          |
| 16                   | 4          | 19.9                  | 324.0          | 16               | 5184.0                     | Y          |
| 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                     | Y          |
| 20                   | 4          | 17.1                  | 373.0          | 15               | 5595.0                     | Y          |
| 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: 100% |            |                       |                |                  |                            |            |

**5270MHz, 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                 | 5.290                  | Y          |
| 1                   | 5          | 8                | 19                | 1.5000000        | 12.0                 | 5.258                  | Y          |
| 2                   | 5          | 11               | 11                | 1.0909091        | 12.0                 | 5.261                  | Y          |
| 3                   | 5          | 20               | 12                | 0.6000000        | 12.0                 | 5.259                  | Y          |
| 4                   | 5          | 17               | 6                 | 0.7058824        | 12.0                 | 5.262                  | Y          |
| 5                   | 5          | 14               | 15                | 0.8571429        | 12.0                 | 5.258                  | Y          |
| 6                   | 5          | 15               | 16                | 0.8000000        | 12.0                 | 5.259                  | Y          |
| 7                   | 5          | 12               | 17                | 1.0000000        | 12.0                 | 5.258                  | Y          |
| 8                   | 5          | 14               | 19                | 0.8571429        | 12.0                 | 5.320                  | Y          |
| 9                   | 5          | 8                | 12                | 1.5000000        | 12.0                 | 5.322                  | Y          |
| 10                  | 5          | 17               | 7                 | 0.7058824        | 12.0                 | 5.318                  | Y          |
| 11                  | 5          | 19               | 11                | 0.6315789        | 12.0                 | 5.321                  | Y          |
| 12                  | 5          | 15               | 14                | 0.8000000        | 12.0                 | 5.322                  | Y          |
| 13                  | 5          | 12               | 16                | 1.0000000        | 12.0                 | 5.324                  | Y          |
| 14                  | 5          | 19               | 9                 | 0.6315789        | 12.0                 | 5.320                  | Y          |
| 15                  | 5          | 14               | 16                | 0.8571429        | 12.0                 | 5.318                  | Y          |
| 16                  | 5          | 20               | 13                | 0.6000000        | 12.0                 | 5.322                  | Y          |
| 17                  | 5          | 12               | 7                 | 1.0000000        | 12.0                 | 5.319                  | Y          |
| 18                  | 5          | 14               | 10                | 0.8571429        | 12.0                 | 5.290                  | Y          |
| 19                  | 5          | 12               | 19                | 1.0000000        | 12.0                 | 5.258                  | Y          |
| 20                  | 5          | 16               | 12                | 0.7500000        | 12.0                 | 5.261                  | Y          |
| 21                  | 5          | 12               | 14                | 1.0000000        | 12.0                 | 5.259                  | Y          |
| 22                  | 5          | 20               | 9                 | 0.6000000        | 12.0                 | 5.262                  | N          |
| 23                  | 5          | 14               | 14                | 0.8571429        | 12.0                 | 5.258                  | Y          |
| 24                  | 5          | 13               | 6                 | 0.9230769        | 12.0                 | 5.259                  | Y          |
| 25                  | 5          | 8                | 7                 | 1.5000000        | 12.0                 | 5.258                  | Y          |
| 26                  | 5          | 17               | 18                | 0.7058824        | 12.0                 | 5.320                  | Y          |
| 27                  | 5          | 19               | 16                | 0.6315789        | 12.0                 | 5.322                  | Y          |
| 28                  | 5          | 12               | 17                | 1.0000000        | 12.0                 | 5.318                  | Y          |
| 29                  | 5          | 18               | 16                | 0.6666667        | 12.0                 | 5.321                  | Y          |
| Detection rate: 97% |            |                  |                   |                  |                      |                        |            |

**5270MHz, Radar 6**

| Trial Id             | Radar Type | Pulse Width(μs) | PRI (μs) | 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                       | Y          |
| 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                       | Y          |
| 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                       | Y          |
| 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: 100% |            |                 |          |                |                    |                              |                          |            |

**5300MHZ, Radar 1**

| Trial Id             | Radar Type | Pulse Width(μs) | PRI (μs) | Number of Pulses | Waveform Length (μs) | 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              | Y          |
| 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              | Y          |
| 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              | Y          |
| 24                   | 1          | 1.0             | 2878.0   | 19               | 54682.0              | Y          |
| 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              | Y          |
| 29                   | 1          | 1.0             | 1177.0   | 45               | 52965.0              | Y          |
| Detection rate: 100% |            |                 |          |                  |                      |            |

**5300MHZ, Radar 2**

| Trial Id             | Radar Type | Pulse Width(μs) | PRI (μs) | Number of Pulses | Waveform Length (μs) | 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               | Y          |
| 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               | 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                 | Y          |
| 23                   | 2          | 2.9             | 202.0    | 26               | 5252.0               | Y          |
| 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               | Y          |
| 29                   | 2          | 4.2             | 159.0    | 28               | 4452.0               | Y          |
| Detection rate: 100% |            |                 |          |                  |                      |            |

**5300MHZ, Radar 3**

| Trial Id             | Radar Type | Pulse Width(μs) | PRI (μs) | Number of Pulses | Waveform Length (μs) | 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               | Y          |
| 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               | Y          |
| 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: 100% |            |                 |          |                  |                      |            |

**5300MHZ, Radar 4**

| Trial Id             | Radar Type | Pulse Width( $\mu$ s) | PRI ( $\mu$ s) | Number of Pulses | Waveform Length ( $\mu$ s) | conclusion |
|----------------------|------------|-----------------------|----------------|------------------|----------------------------|------------|
| 0                    | 4          | 16.0                  | 355.0          | 14               | 4970.0                     | Y          |
| 1                    | 4          | 11.3                  | 487.0          | 12               | 5844.0                     | Y          |
| 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                     | Y          |
| 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                     | Y          |
| 16                   | 4          | 19.9                  | 324.0          | 16               | 5184.0                     | Y          |
| 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                     | Y          |
| 20                   | 4          | 17.1                  | 373.0          | 15               | 5595.0                     | Y          |
| 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: 100% |            |                       |                |                  |                            |            |

**5300MHZ, 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                 | 5.3000                 | Y          |
| 1                   | 5          | 8                | 19                | 1.5000000        | 12.0                 | 5.3000                 | Y          |
| 2                   | 5          | 11               | 11                | 1.0909091        | 12.0                 | 5.3000                 | Y          |
| 3                   | 5          | 20               | 12                | 0.6000000        | 12.0                 | 5.3000                 | Y          |
| 4                   | 5          | 17               | 6                 | 0.7058824        | 12.0                 | 5.3000                 | Y          |
| 5                   | 5          | 14               | 15                | 0.8571429        | 12.0                 | 5.3000                 | Y          |
| 6                   | 5          | 15               | 16                | 0.8000000        | 12.0                 | 5.3000                 | Y          |
| 7                   | 5          | 12               | 17                | 1.0000000        | 12.0                 | 5.3000                 | Y          |
| 8                   | 5          | 14               | 19                | 0.8571429        | 12.0                 | 5.3000                 | Y          |
| 9                   | 5          | 8                | 12                | 1.5000000        | 12.0                 | 5.3000                 | Y          |
| 10                  | 5          | 17               | 7                 | 0.7058824        | 12.0                 | 5.2964                 | Y          |
| 11                  | 5          | 19               | 11                | 0.6315789        | 12.0                 | 5.2976                 | Y          |
| 12                  | 5          | 15               | 14                | 0.8000000        | 12.0                 | 5.2952                 | N          |
| 13                  | 5          | 12               | 16                | 1.0000000        | 12.0                 | 5.2940                 | Y          |
| 14                  | 5          | 19               | 9                 | 0.6315789        | 12.0                 | 5.2972                 | Y          |
| 15                  | 5          | 14               | 16                | 0.8571429        | 12.0                 | 5.2948                 | N          |
| 16                  | 5          | 20               | 13                | 0.6000000        | 12.0                 | 5.2980                 | Y          |
| 17                  | 5          | 12               | 7                 | 1.0000000        | 12.0                 | 5.2940                 | Y          |
| 18                  | 5          | 14               | 10                | 0.8571429        | 12.0                 | 5.2948                 | Y          |
| 19                  | 5          | 12               | 19                | 1.0000000        | 12.0                 | 5.2940                 | Y          |
| 20                  | 5          | 16               | 12                | 0.7500000        | 12.0                 | 5.3040                 | Y          |
| 21                  | 5          | 12               | 14                | 1.0000000        | 12.0                 | 5.3064                 | Y          |
| 22                  | 5          | 20               | 9                 | 0.6000000        | 12.0                 | 5.3020                 | Y          |
| 23                  | 5          | 14               | 14                | 0.8571429        | 12.0                 | 5.3052                 | Y          |
| 24                  | 5          | 13               | 6                 | 0.9230769        | 12.0                 | 5.3056                 | Y          |
| 25                  | 5          | 8                | 7                 | 1.5000000        | 12.0                 | 5.3080                 | Y          |
| 26                  | 5          | 17               | 18                | 0.7058824        | 12.0                 | 5.3036                 | Y          |
| 27                  | 5          | 19               | 16                | 0.6315789        | 12.0                 | 5.3024                 | Y          |
| 28                  | 5          | 12               | 17                | 1.0000000        | 12.0                 | 5.3060                 | Y          |
| 29                  | 5          | 18               | 16                | 0.6666667        | 12.0                 | 5.3032                 | Y          |
| Detection rate: 94% |            |                  |                   |                  |                      |                        |            |



**5300MHZ, Radar 6**

| Trial Id             | Radar Type | Pulse Width(μs) | PRI (μs) | 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                       | Y          |
| 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                       | Y          |
| 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                       | Y          |
| 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: 100% |            |                 |          |                |                    |                              |                          |            |

**5500MHZ, Radar 1**

| Trial Id             | Radar Type | Pulse Width( $\mu$ s) | PRI ( $\mu$ s) | Number of Pulses | Waveform Length ( $\mu$ s) | 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                    | Y          |
| 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                    | Y          |
| 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                    | Y          |
| 24                   | 1          | 1.0                   | 2878.0         | 19               | 54682.0                    | Y          |
| 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                    | Y          |
| 29                   | 1          | 1.0                   | 1177.0         | 45               | 52965.0                    | Y          |
| Detection rate: 100% |            |                       |                |                  |                            |            |

**5500MHZ, Radar 2**

| Trial Id             | Radar Type | Pulse Width(μs) | PRI (μs) | Number of Pulses | Waveform Length (μs) | 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               | Y          |
| 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               | 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                 | Y          |
| 23                   | 2          | 2.9             | 202.0    | 26               | 5252.0               | Y          |
| 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               | Y          |
| 29                   | 2          | 4.2             | 159.0    | 28               | 4452.0               | Y          |
| Detection rate: 100% |            |                 |          |                  |                      |            |

**5500MHZ, Radar 3**

| Trial Id             | Radar Type | Pulse Width(μs) | PRI (μs) | Number of Pulses | Waveform Length (μs) | 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               | Y          |
| 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               | Y          |
| 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: 100% |            |                 |          |                  |                      |            |

**5500MHZ, Radar 4**

| Trial Id             | Radar Type | Pulse Width( $\mu$ s) | PRI ( $\mu$ s) | Number of Pulses | Waveform Length ( $\mu$ s) | conclusion |
|----------------------|------------|-----------------------|----------------|------------------|----------------------------|------------|
| 0                    | 4          | 16.0                  | 355.0          | 14               | 4970.0                     | Y          |
| 1                    | 4          | 11.3                  | 487.0          | 12               | 5844.0                     | Y          |
| 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                     | Y          |
| 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                     | Y          |
| 16                   | 4          | 19.9                  | 324.0          | 16               | 5184.0                     | Y          |
| 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                     | Y          |
| 20                   | 4          | 17.1                  | 373.0          | 15               | 5595.0                     | Y          |
| 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: 100% |            |                       |                |                  |                            |            |

**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                 | Y          |
| 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                 | Y          |
| 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                 | Y          |
| 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                 | Y          |
| 29                   | 5          | 18               | 16                | 0.6666667        | 12.0                 | 5.5032                 | Y          |
| Detection rate: 100% |            |                  |                   |                  |                      |                        |            |

**5500MHZ, Radar 6**

| Trial Id             | Radar Type | Pulse Width(μs) | PRI (μs) | 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                       | Y          |
| 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                       | Y          |
| 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                       | Y          |
| 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: 100% |            |                 |          |                |                    |                              |                          |            |

**5550MHZ, Radar 1**

| Trial Id             | Radar Type | Pulse Width(μs) | PRI (μs) | Number of Pulses | Waveform Length (μs) | 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              | Y          |
| 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              | Y          |
| 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              | Y          |
| 24                   | 1          | 1.0             | 2878.0   | 19               | 54682.0              | Y          |
| 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              | Y          |
| 29                   | 1          | 1.0             | 1177.0   | 45               | 52965.0              | Y          |
| Detection rate: 100% |            |                 |          |                  |                      |            |



**5550MHZ, Radar 2**

| Trial Id             | Radar Type | Pulse Width(μs) | PRI (μs) | Number of Pulses | Waveform Length (μs) | 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               | Y          |
| 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               | 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                 | Y          |
| 23                   | 2          | 2.9             | 202.0    | 26               | 5252.0               | Y          |
| 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               | Y          |
| 29                   | 2          | 4.2             | 159.0    | 28               | 4452.0               | Y          |
| Detection rate: 100% |            |                 |          |                  |                      |            |

**5550MHZ, Radar 3**

| Trial Id            | Radar Type | Pulse Width(μs) | PRI (μs) | Number of Pulses | Waveform Length (μs) | 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               | Y          |
| 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               | N          |
| 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               | Y          |
| 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: 97% |            |                 |          |                  |                      |            |

**5550MHZ, Radar 4**

| Trial Id            | Radar Type | Pulse Width( $\mu$ s) | PRI ( $\mu$ s) | Number of Pulses | Waveform Length ( $\mu$ s) | conclusion |
|---------------------|------------|-----------------------|----------------|------------------|----------------------------|------------|
| 0                   | 4          | 16.0                  | 355.0          | 14               | 4970.0                     | Y          |
| 1                   | 4          | 11.3                  | 487.0          | 12               | 5844.0                     | Y          |
| 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                     | Y          |
| 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                     | Y          |
| 16                  | 4          | 19.9                  | 324.0          | 16               | 5184.0                     | Y          |
| 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                     | Y          |
| 20                  | 4          | 17.1                  | 373.0          | 15               | 5595.0                     | Y          |
| 21                  | 4          | 13.8                  | 254.0          | 13               | 3302.0                     | N          |
| 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: 97% |            |                       |                |                  |                            |            |

**5550MHZ, Radar 5**

| Trial Id             | Radar Type | Number of Pulses | Chirp Width (MHz) | Burst Period (s) | Waveform Length (μs) | Center Frequency | conclusion |
|----------------------|------------|------------------|-------------------|------------------|----------------------|------------------|------------|
| 0                    | 5          | 15               | 13                | 0.8000000        | 12.0                 | 5.5500           | Y          |
| 1                    | 5          | 8                | 19                | 1.5000000        | 12.0                 | 5.5500           | Y          |
| 2                    | 5          | 11               | 11                | 1.0909091        | 12.0                 | 5.5500           | Y          |
| 3                    | 5          | 20               | 12                | 0.6000000        | 12.0                 | 5.5500           | Y          |
| 4                    | 5          | 17               | 6                 | 0.7058824        | 12.0                 | 5.5500           | Y          |
| 5                    | 5          | 14               | 15                | 0.8571429        | 12.0                 | 5.5500           | Y          |
| 6                    | 5          | 15               | 16                | 0.8000000        | 12.0                 | 5.5500           | Y          |
| 7                    | 5          | 12               | 17                | 1.0000000        | 12.0                 | 5.5500           | Y          |
| 8                    | 5          | 14               | 19                | 0.8571429        | 12.0                 | 5.5500           | Y          |
| 9                    | 5          | 8                | 12                | 1.5000000        | 12.0                 | 5.5500           | Y          |
| 10                   | 5          | 17               | 7                 | 0.7058824        | 12.0                 | 5.5364           | Y          |
| 11                   | 5          | 19               | 11                | 0.6315789        | 12.0                 | 5.5376           | Y          |
| 12                   | 5          | 15               | 14                | 0.8000000        | 12.0                 | 5.5352           | Y          |
| 13                   | 5          | 12               | 16                | 1.0000000        | 12.0                 | 5.5340           | Y          |
| 14                   | 5          | 19               | 9                 | 0.6315789        | 12.0                 | 5.5372           | Y          |
| 15                   | 5          | 14               | 16                | 0.8571429        | 12.0                 | 5.5348           | Y          |
| 16                   | 5          | 20               | 13                | 0.6000000        | 12.0                 | 5.5380           | Y          |
| 17                   | 5          | 12               | 7                 | 1.0000000        | 12.0                 | 5.5340           | Y          |
| 18                   | 5          | 14               | 10                | 0.8571429        | 12.0                 | 5.5348           | Y          |
| 19                   | 5          | 12               | 19                | 1.0000000        | 12.0                 | 5.5340           | Y          |
| 20                   | 5          | 16               | 12                | 0.7500000        | 12.0                 | 5.5640           | Y          |
| 21                   | 5          | 12               | 14                | 1.0000000        | 12.0                 | 5.5664           | Y          |
| 22                   | 5          | 20               | 9                 | 0.6000000        | 12.0                 | 5.5620           | Y          |
| 23                   | 5          | 14               | 14                | 0.8571429        | 12.0                 | 5.5652           | Y          |
| 24                   | 5          | 13               | 6                 | 0.9230769        | 12.0                 | 5.5656           | Y          |
| 25                   | 5          | 8                | 7                 | 1.5000000        | 12.0                 | 5.5680           | Y          |
| 26                   | 5          | 17               | 18                | 0.7058824        | 12.0                 | 5.5636           | Y          |
| 27                   | 5          | 19               | 16                | 0.6315789        | 12.0                 | 5.5624           | Y          |
| 28                   | 5          | 12               | 17                | 1.0000000        | 12.0                 | 5.5660           | Y          |
| 29                   | 5          | 18               | 16                | 0.6666667        | 12.0                 | 5.5632           | Y          |
| Detection rate: 100% |            |                  |                   |                  |                      |                  |            |

**5550MHZ, Radar 6**

| Trial Id             | Radar Type | Pulse Width(μs) | PRI (μs) | 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                       | Y          |
| 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                       | Y          |
| 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                       | Y          |
| 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: 100% |            |                 |          |                |                    |                              |                          |            |

**5570MHz, Radar 1**

| Trial Id             | Radar Type | Pulse Width(μs) | PRI (μs) | Number of Pulses | Waveform Length (μs) | 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              | Y          |
| 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              | Y          |
| 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              | Y          |
| 24                   | 1          | 1.0             | 2878.0   | 19               | 54682.0              | Y          |
| 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              | Y          |
| 29                   | 1          | 1.0             | 1177.0   | 45               | 52965.0              | Y          |
| Detection rate: 100% |            |                 |          |                  |                      |            |

**5570MHz, Radar 2**

| Trial Id             | Radar Type | Pulse Width(μs) | PRI (μs) | Number of Pulses | Waveform Length (μs) | 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               | Y          |
| 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               | 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                 | Y          |
| 23                   | 2          | 2.9             | 202.0    | 26               | 5252.0               | Y          |
| 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               | Y          |
| 29                   | 2          | 4.2             | 159.0    | 28               | 4452.0               | Y          |
| Detection rate: 100% |            |                 |          |                  |                      |            |

**5570MHz, Radar 3**

| Trial Id             | Radar Type | Pulse Width( $\mu$ s) | PRI ( $\mu$ s) | Number of Pulses | Waveform Length ( $\mu$ s) | 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                     | Y          |
| 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                     | Y          |
| 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: 100% |            |                       |                |                  |                            |            |



**5570MHz, Radar 4**

| Trial Id             | Radar Type | Pulse Width( $\mu$ s) | PRI ( $\mu$ s) | Number of Pulses | Waveform Length ( $\mu$ s) | conclusion |
|----------------------|------------|-----------------------|----------------|------------------|----------------------------|------------|
| 0                    | 4          | 16.0                  | 355.0          | 14               | 4970.0                     | Y          |
| 1                    | 4          | 11.3                  | 487.0          | 12               | 5844.0                     | Y          |
| 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                     | Y          |
| 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                     | Y          |
| 16                   | 4          | 19.9                  | 324.0          | 16               | 5184.0                     | Y          |
| 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                     | Y          |
| 20                   | 4          | 17.1                  | 373.0          | 15               | 5595.0                     | Y          |
| 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: 100% |            |                       |                |                  |                            |            |

**5570MHz, 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                 | 5.6100                 | Y          |
| 1                    | 5          | 8                | 19                | 1.5000000        | 12.0                 | 5.6100                 | Y          |
| 2                    | 5          | 11               | 11                | 1.0909091        | 12.0                 | 5.6100                 | Y          |
| 3                    | 5          | 20               | 12                | 0.6000000        | 12.0                 | 5.6100                 | Y          |
| 4                    | 5          | 17               | 6                 | 0.7058824        | 12.0                 | 5.6100                 | Y          |
| 5                    | 5          | 14               | 15                | 0.8571429        | 12.0                 | 5.6100                 | Y          |
| 6                    | 5          | 15               | 16                | 0.8000000        | 12.0                 | 5.6100                 | Y          |
| 7                    | 5          | 12               | 17                | 1.0000000        | 12.0                 | 5.6100                 | Y          |
| 8                    | 5          | 14               | 19                | 0.8571429        | 12.0                 | 5.6100                 | Y          |
| 9                    | 5          | 8                | 12                | 1.5000000        | 12.0                 | 5.6100                 | Y          |
| 10                   | 5          | 17               | 7                 | 0.7058824        | 12.0                 | 5.5764                 | Y          |
| 11                   | 5          | 19               | 11                | 0.6315789        | 12.0                 | 5.5776                 | Y          |
| 12                   | 5          | 15               | 14                | 0.8000000        | 12.0                 | 5.5752                 | Y          |
| 13                   | 5          | 12               | 16                | 1.0000000        | 12.0                 | 5.5740                 | Y          |
| 14                   | 5          | 19               | 9                 | 0.6315789        | 12.0                 | 5.5772                 | Y          |
| 15                   | 5          | 14               | 16                | 0.8571429        | 12.0                 | 5.5748                 | Y          |
| 16                   | 5          | 20               | 13                | 0.6000000        | 12.0                 | 5.5780                 | Y          |
| 17                   | 5          | 12               | 7                 | 1.0000000        | 12.0                 | 5.5740                 | Y          |
| 18                   | 5          | 14               | 10                | 0.8571429        | 12.0                 | 5.5748                 | Y          |
| 19                   | 5          | 12               | 19                | 1.0000000        | 12.0                 | 5.5740                 | Y          |
| 20                   | 5          | 16               | 12                | 0.7500000        | 12.0                 | 5.6440                 | Y          |
| 21                   | 5          | 12               | 14                | 1.0000000        | 12.0                 | 5.6464                 | Y          |
| 22                   | 5          | 20               | 9                 | 0.6000000        | 12.0                 | 5.6420                 | Y          |
| 23                   | 5          | 14               | 14                | 0.8571429        | 12.0                 | 5.6452                 | Y          |
| 24                   | 5          | 13               | 6                 | 0.9230769        | 12.0                 | 5.6456                 | Y          |
| 25                   | 5          | 8                | 7                 | 1.5000000        | 12.0                 | 5.6480                 | Y          |
| 26                   | 5          | 17               | 18                | 0.7058824        | 12.0                 | 5.6436                 | Y          |
| 27                   | 5          | 19               | 16                | 0.6315789        | 12.0                 | 5.6424                 | Y          |
| 28                   | 5          | 12               | 17                | 1.0000000        | 12.0                 | 5.6460                 | Y          |
| 29                   | 5          | 18               | 16                | 0.6666667        | 12.0                 | 5.6432                 | Y          |
| Detection rate: 100% |            |                  |                   |                  |                      |                        |            |

**5570MHz, Radar 6**

| Trial Id             | Radar Type | Pulse Width( $\mu$ s) | PRI ( $\mu$ 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                       | Y          |
| 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                       | Y          |
| 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                       | Y          |
| 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: 100% |            |                       |                |                |                    |                              |                          |            |

## 6. Main Test Instruments

| Name                     | Manufacturer     | Type     | Serial Number | Calibration Date | Expiration Date |
|--------------------------|------------------|----------|---------------|------------------|-----------------|
| Spectrum Analyzer        | Agilent          | N9020A   | MY52330084    | 2021-05-15       | 2022-05-14      |
| Signal Generator         | Agilent          | N5182B   | MY51350303    | 2021-05-15       | 2022-05-14      |
| Splitter                 | UCL<br>Microwave | 2 way    | UCL-PD0512-2S | /                | /               |
| RF Cable                 | Agilent          | SMA 15cm | 0001          | /                | /               |
| RF Cable                 | Agilent          | SMA 15cm | 0002          | /                | /               |
| RF Cable                 | Agilent          | SMA 15cm | 0003          | /                | /               |
| RF Cable                 | Agilent          | SMA 15cm | 0004          | /                | /               |
| Software                 | KEYSIGHT         | N7607C   | /             | /                | /               |
| Wireless Network Adapter | Intel            | AX200NGW | G86C0007U410  | /                | /               |

\*\*\*\*\*END OF REPORT \*\*\*\*\*



## ANNEX A: The EUT Appearance

The EUT Appearance is submitted separately.



## ANNEX B: Test Setup Photos

The Test Setup Photos is submitted separately.