

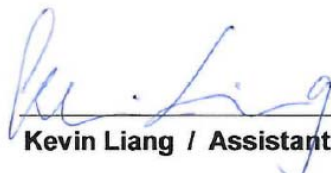
# FCC DFS Test Report

**Equipment** : AC1750 Wi-Fi Range Extender  
**Brand Name** : TP-LINK  
**Model No.** : RE450  
**FCC ID** : TE7RE450  
**Standard** : 47 CFR FCC Part 15.407  
**Applicant** : TP-LINK TECHNOLOGIES CO., LTD.  
**Manufacturer** : Building 24 (floors 1,3,4,5) and 28  
(floors1-4) Central Science and  
Technology Park,Shennan Rd, Nanshan,  
Shenzhen,China  
**Operate Mode** : Master/Client without radar detection

The product sample received on May 22, 2015 and completely tested on Jun. 30, 2016. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by:

  
Kevin Liang / Assistant Manager

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## Summary of Test Result

| <b>Conformance Test Specifications<br/>(FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02)</b> |                         |                                                                          |                                                                                      |                                    |               |
|--------------------------------------------------------------------------------------------------------------|-------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------|---------------|
| <b>Report Clause</b>                                                                                         | <b>Ref. Std. Clause</b> | <b>Description</b>                                                       | <b>Measured</b>                                                                      | <b>Limit</b>                       | <b>Result</b> |
| 3.3                                                                                                          | 7.8.1                   | DFS: UNII Detection Bandwidth Measurement                                | VHT20: 17.660 MHz<br>VHT40: 36.643 MHz<br>VHT80: 76.265 MHz<br>N/A (Client w/o test) | 100% of the 99% BW for type0       | Complied      |
| 3.4                                                                                                          | 7.8.2.1                 | DFS: Initial Channel Availability Check Time                             | CAC = 60 sec<br>N/A (Client w/o test)                                                | CAC ≥ 60 sec                       | Complied      |
| 3.4                                                                                                          | 7.8.2.2                 | DFS: Radar Burst at the Beginning of the Channel Availability Check Time | Detect Radar Signal<br>N/A (Client w/o test)                                         | Detection Threshold: -64 dBm       | Complied      |
| 3.4                                                                                                          | 7.8.2.3                 | DFS: Radar Burst at the End of the Channel Availability Check Time       | Detect Radar Signal<br>N/A (Client w/o test)                                         | Detection Threshold: -64 dBm       | Complied      |
| 3.5                                                                                                          | 7.8.3                   | DFS: In-Service Monitoring for Channel Move Time (CMT)                   | CMT < 10sec                                                                          | CMT ≤ 10sec                        | Complied      |
| 3.5                                                                                                          | 7.8.3                   | DFS: In-Service Monitoring for Channel Closing Transmission Time (CCTT)  | CCTT < 60 ms                                                                         | CCTT ≤ 60 ms starting at CMT 200ms | Complied      |
| 3.5                                                                                                          | 7.8.3                   | DFS: In-Service Monitoring for Non-Occupancy Period (NOP)                | NOP > 30 min                                                                         | NOP ≥ 30 min                       | Complied      |
| 3.6                                                                                                          | 7.8.4                   | DFS: Statistical Performance Check                                       | All Pd > Table 5 - 7 (KDB 905462)                                                    | Table 5 - 7 (KDB 905462)           | Complied      |
| 3.1.4                                                                                                        | 8.1                     | User Access Restrictions                                                 | Manufacturer attestation NOT accessible to user                                      | DFS controls                       | Complied      |



SPORTON INTERNATIONAL INC.  
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FAX : 886-3-327-0973

# 1 General Description

## 1.1 Information

EUT support repeater mode.

### 1.1.1 RF General Information

| IEEE Std. 802.11                                                                                                                                               | Channel Bandwidth (MHz) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| a, n (HT20) / ac (VHT20)                                                                                                                                       | 20                      |
| n (HT40) / ac (VHT40)                                                                                                                                          | 40                      |
| ac (VHT80)                                                                                                                                                     | 80                      |
| 802.11 a/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.<br>802.11ac uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation. |                         |

### 1.1.2 Antenna Information

| Antenna Category                    |                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/>            | Equipment placed on the market without antennas                                                                                                                                                                                                                                                                   |
| <input type="checkbox"/>            | Integral antenna (antenna permanently attached)                                                                                                                                                                                                                                                                   |
| <input type="checkbox"/>            | Temporary RF connector provided                                                                                                                                                                                                                                                                                   |
| <input type="checkbox"/>            | No temporary RF connector provided<br>Transmit chains bypass antenna and soldered temporary RF connector provided for connected measurement. In case of conducted measurements the transmitter shall be connected to the measuring equipment via a suitable attenuator and correct for all losses in the RF path. |
| <input checked="" type="checkbox"/> | External antenna (dedicated antennas)                                                                                                                                                                                                                                                                             |
| <input type="checkbox"/>            | Single power level with corresponding antenna(s).                                                                                                                                                                                                                                                                 |
| <input type="checkbox"/>            | Multiple power level and corresponding antenna(s).                                                                                                                                                                                                                                                                |
| <input checked="" type="checkbox"/> | RF connector provided                                                                                                                                                                                                                                                                                             |
| <input checked="" type="checkbox"/> | Unique antenna connector. (e.g., MMCX, U.FL, IPX, and RP-SMA, RP-N type...)                                                                                                                                                                                                                                       |
| <input type="checkbox"/>            | Standard antenna connector. (e.g., SMA, N, BNC, and TNC type...)                                                                                                                                                                                                                                                  |

| Antenna General Information                                                                                                                                                                                            |           |           |            |                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|------------|------------------------|
| No.                                                                                                                                                                                                                    | Ant. Cat. | Ant. Type | Model      | G <sub>ANT</sub> (dBi) |
| 1                                                                                                                                                                                                                      | External  | Dipole    | 3101500590 | 1.50                   |
| 2                                                                                                                                                                                                                      | External  | Dipole    | 3101500588 | 1.91                   |
| 3                                                                                                                                                                                                                      | External  | Dipole    | 3101500589 | 1.36                   |
| <input checked="" type="checkbox"/> For radiated tests, the DFS test should be performed with lowest antenna gain (regardless of antenna type). Then Ant. No. <u>3</u> shall be performed the radiated DFS test.       |           |           |            |                        |
| <input type="checkbox"/> For conducted tests, antenna ports are used for the tests and Master lowest antenna gain [0] dBi that was used to set the DFS Detection Threshold level during calibration of the test setup. |           |           |            |                        |

Note: we select minimum gain of each antenna, and show in the table.

### 1.1.3 Type of EUT

| Type of EUT                         |                                                                                                                               |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | Stand-alone                                                                                                                   |
| <input type="checkbox"/>            | Combined (EUT where the radio part is fully integrated within another device)<br>Combined Equipment - Brand Name / Model No.: |
| <input type="checkbox"/>            | Plug-in radio (EUT intended for a variety of host systems)<br>Host System - Brand Name / Model No.:                           |
| <input type="checkbox"/>            | Other:                                                                                                                        |

### 1.2 Support Equipment

| Support Equipment |                |            |                |               |
|-------------------|----------------|------------|----------------|---------------|
| No.               | Equipment      | Brand Name | Model Name     | FCC ID        |
| 1                 | AP (Master)    | EDIMAX     | EW-7679WIC     | NDD9576791401 |
| 2                 | NoteBook PC    | Dell       | Latitude E5540 | -             |
| 3                 | Adapter        | Dell       | DA65NM111-00   | -             |
| 4                 | NoteBook PC    | Dell       | Latitude E5550 | -             |
| 5                 | Adapter        | Dell       | LA65NM130      | -             |
| 6                 | Dongle(Client) | Netgear    | EW-7811USC     | -             |
| 7                 | NoteBook PC    | Dell       | Latitude E5510 | -             |
| 8                 | Adapter        | Dell       | DA90E3-00      | -             |

### 1.3 Testing Applied Standards

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

- FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02
- 47 CFR FCC Part 15.407

### 1.4 Testing Location Information

| Testing Location                    |               |                                                                                                                                                     |                  |            |
|-------------------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------|
| <input checked="" type="checkbox"/> | HWA YA        | ADD : No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Taoyuan City, Taiwan, R.O.C.<br>TEL : 886-3-327-3456 FAX : 886-3-318-0055 |                  |            |
| Test Condition                      | Test Site No. | Test Engineer                                                                                                                                       | Test Environment | Test Date  |
| DFS Site                            | DF01-HY       | Sam Tsai                                                                                                                                            | 25.4°C / 60.3%   | 30/06/2016 |

## 1.5 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

| Measurement Uncertainty       |                          |
|-------------------------------|--------------------------|
| Test Item                     | Uncertainty              |
| Radio frequency               | $\pm 8.7 \times 10^{-7}$ |
| RF output power, conducted    | $\pm 0.6$ dB             |
| All emissions, conducted      | $\pm 0.8$ dB             |
| All emissions, radiated       | $\pm 2.8$ dB             |
| Temperature                   | $\pm 0.8$ °C             |
| Humidity                      | $\pm 3$ %                |
| DC and low frequency voltages | $\pm 3$ %                |
| Time                          | $\pm 1.4$ %              |

## 2 Test Configuration of EUT

### 2.1 DFS and TPC Information

| The DFS Related Operating Mode(s) of the Equipment                 |                                               |                                                           |                                      |
|--------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------|--------------------------------------|
| <input checked="" type="checkbox"/> Master                         |                                               |                                                           |                                      |
| <input type="checkbox"/> Client with radar detection               |                                               |                                                           |                                      |
| <input checked="" type="checkbox"/> Client without radar detection |                                               |                                                           |                                      |
| Hardware Version                                                   |                                               | -                                                         |                                      |
| Software/Firmware Version                                          |                                               | 1.0.0.0 Build 20151030 Rel. 74722                         |                                      |
| Power-on Cycle. (Master VHT80)                                     |                                               | 102.5 sec                                                 |                                      |
| Master                                                             |                                               |                                                           |                                      |
| Communication Mode                                                 |                                               | <input checked="" type="checkbox"/> IP Based (Load Based) | <input type="checkbox"/> Frame Based |
| IEEE Std. 802.11                                                   | Frequency Range (MHz)                         | TPC (Transmit Power Control)                              | Active Scan                          |
| 11a<br>n (HT20/HT40)<br>ac (VHT20)<br>ac (VHT40)<br>ac (VHT80)     | <input checked="" type="checkbox"/> 5250-5350 | Yes                                                       | Yes                                  |
|                                                                    | <input checked="" type="checkbox"/> 5470-5725 | Yes                                                       | Yes                                  |
|                                                                    | <input type="checkbox"/> 5600-5650            | -                                                         | -                                    |
| Client without radar detection                                     |                                               |                                                           |                                      |
| Communication Mode                                                 |                                               | <input checked="" type="checkbox"/> IP Based (Load Based) | <input type="checkbox"/> Frame Based |
| IEEE Std. 802.11                                                   | Frequency Range (MHz)                         | TPC (Transmit Power Control)                              | Active Scan                          |
| 11a<br>n (HT20/HT40)<br>ac (VHT20)<br>ac (VHT40)<br>ac (VHT80)     | <input checked="" type="checkbox"/> 5250-5350 | Yes                                                       | Yes                                  |
|                                                                    | <input checked="" type="checkbox"/> 5470-5725 | Yes                                                       | Yes                                  |
|                                                                    | <input type="checkbox"/> 5600-5650            | -                                                         | -                                    |

### 2.2 The Worst Case Measurement Configuration

| The Worst Case Mode for Following Conformance Tests                                                           |                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tests Item                                                                                                    | Dynamic Frequency Selection (DFS)                                                                                                                                                                                                                                              |
| Test Condition                                                                                                | Conducted measurement at transmit chains<br>The EUT shall be configured to operate at the highest transmitter output power setting. If more than one antenna assembly is intended for this power setting, the gain of the antenna assembly with the lowest gain shall be used. |
| Modulation Mode                                                                                               | VHT20, VHT40, VHT80                                                                                                                                                                                                                                                            |
| Modulation modes consist of below configuration: 11a: IEEE 802.11a, HT20/HT40/VHT20/VHT40/VHT80: IEEE 802.11n |                                                                                                                                                                                                                                                                                |

### 3 Dynamic Frequency Selection (DFS) Test Result

#### 3.1 General DFS Information

##### 3.1.1 DFS Parameters

| Table D.1: DFS requirement values                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Parameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Value                                                                                                   |
| Non-occupancy period                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Minimum 30 minutes                                                                                      |
| Channel Availability Check Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 60 seconds                                                                                              |
| Channel Move Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 10 seconds See Note 1.                                                                                  |
| Channel Closing Transmission Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second periods. See Notes 1 and 2. |
| U-NII Detection Bandwidth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.                                 |
| <p>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.</p> <p>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.</p> <p>Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.</p> |                                                                                                         |

| Table D.2: Interference threshold values                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Maximum Transmit Power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Value (See Notes 1, 2, and 3) |
| EIRP $\geq$ 200 milliwatt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -64 dBm                       |
| EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -62 dBm                       |
| EIRP < 200 milliwatt that do not meet the power spectral density requirement                                                                                                                                                                                                                                                                                                                                                                                                                                           | -64 dBm                       |
| <p>Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.</p> <p>Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.</p> <p>Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.</p> |                               |

### 3.1.2 Applicability of DFS Requirements Prior to Use of a Channel

| Requirement                            | DFS Operational mode |                                |                             |
|----------------------------------------|----------------------|--------------------------------|-----------------------------|
|                                        | Master               | Client without radar detection | Client with radar detection |
| <i>Non-Occupancy Period</i>            | Yes                  | Not required                   | Yes                         |
| <i>DFS Detection Threshold</i>         | Yes                  | Not required                   | Yes                         |
| <i>Channel Availability Check Time</i> | Yes                  | Not required                   | Not required                |
| <i>U-NII Detection Bandwidth</i>       | Yes                  | Not required                   | Yes                         |

### 3.1.3 Applicability of DFS Requirements during Normal Operation

| Requirement                              | DFS Operational mode |                                |                             |
|------------------------------------------|----------------------|--------------------------------|-----------------------------|
|                                          | Master               | Client without radar detection | Client with radar detection |
| <i>DFS Detection Threshold</i>           | Yes                  | Not required                   | Yes                         |
| <i>Channel Closing Transmission Time</i> | Yes                  | Yes                            | Yes                         |
| <i>Channel Move Time</i>                 | Yes                  | Yes                            | Yes                         |
| <i>U-NII Detection Bandwidth</i>         | Yes                  | Not required                   | Yes                         |

### 3.1.4 User Access Restrictions

| User Access Restrictions            |                                                                                                                                                                                                                                              |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | DFS controls (hardware or software) related to radar detection are NOT accessible to the user. Manufacturer statement confirming that information regarding the parameters of the detected Radar Waveforms is not available to the end user. |

### 3.1.5 Channel Loading/Data Streaming

|                                     |                                                                                                                                                                                                                                                          |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | IP Based (Load Based) - stream the test file from the Master to the Client.                                                                                                                                                                              |
| <input type="checkbox"/>            | The client device is link with the master device and plays the WAV audio file from master device to client device. Test file download in NTIA website ( <a href="http://ntiacsd.ntia.doc.gov/dfs/">http://ntiacsd.ntia.doc.gov/dfs/</a> )                |
| <input type="checkbox"/>            | The client device is link with the master device and plays the MPEG file (6 1/2 Magic Hours) from master device to client device. Test file download in NTIA website ( <a href="http://ntiacsd.ntia.doc.gov/dfs/">http://ntiacsd.ntia.doc.gov/dfs/</a> ) |
| <input checked="" type="checkbox"/> | Alternative streaming e.g., FTP with about 17 to 20% loading and submit proposal to FCC.                                                                                                                                                                 |
| <input type="checkbox"/>            | Frame Based - stream the test file from the Master to the Client.                                                                                                                                                                                        |
| <input type="checkbox"/>            | fixed talk/listen ratio, set the ratio to 45%/55%                                                                                                                                                                                                        |

## 3.2 Radar Test Waveform Calibration

### 3.2.1 Short Pulse Radar Test Waveforms

| Radar Type                                                                                                                           | Pulse Width (μsec) | PRI (μsec)                                                                                                                                                    | Number of Pulses                                                                                                                     | Minimum Percentage of Successful Detection | Minimum 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                                                                     | $\text{Roundup} \left\{ \left( \frac{1}{360} \right) \cdot \left( \frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$ | 60%                                        | 30             |
|                                                                                                                                      |                    | Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A |                                                                                                                                      |                                            |                |
| 2                                                                                                                                    | 1-5                | 150-230                                                                                                                                                       | 23-29                                                                                                                                | 60%                                        | 30             |
| 3                                                                                                                                    | 6-10               | 200-500                                                                                                                                                       | 16-18                                                                                                                                | 60%                                        | 30             |
| 4                                                                                                                                    | 11-20              | 200-500                                                                                                                                                       | 12-16                                                                                                                                | 60%                                        | 30             |
| Aggregate (Radar Types 1-4)                                                                                                          |                    |                                                                                                                                                               |                                                                                                                                      | 80%                                        | 120            |
| Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests. |                    |                                                                                                                                                               |                                                                                                                                      |                                            |                |

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

### 3.2.2 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 Trials |
|------------|--------------------|-------------------|------------|----------------------------|------------------|--------------------------------------------|----------------|
| 5          | 50-100             | 5-20              | 1000-2000  | 1-3                        | 8-20             | 80%                                        | 30             |

Each waveform is defined as follows:

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

### 3.2.3 Frequency Hopping Radar Test Waveform

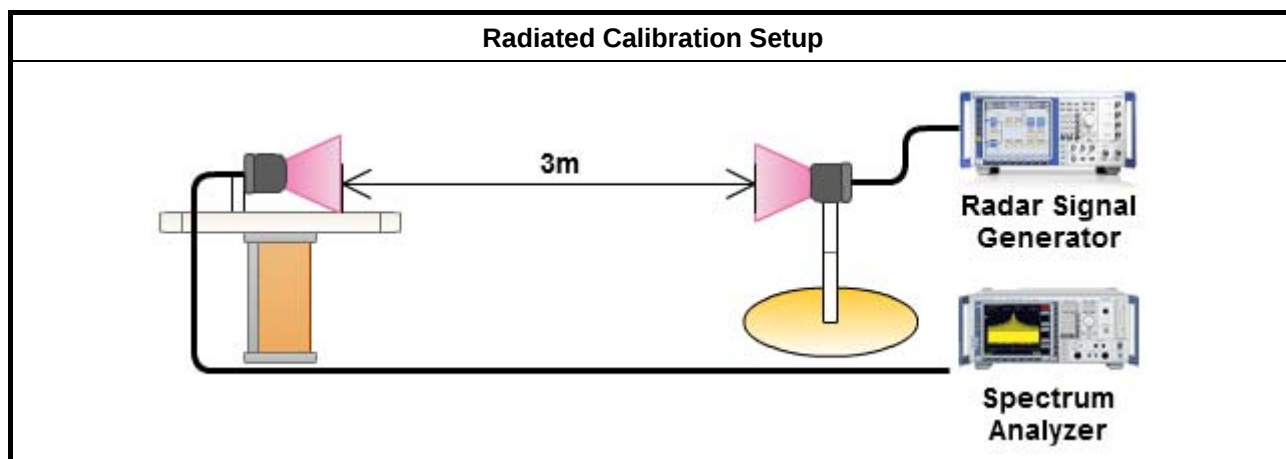
| Radar Type | Pulse Width (μsec) | PRI (μsec) | Pulses per Hop | Hopping Rate (kHz) | Hopping Sequence Length (ms) | Minimum Percentage of Successful Detection | Minimum Trials |
|------------|--------------------|------------|----------------|--------------------|------------------------------|--------------------------------------------|----------------|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

The FCC Type 6 waveform uses a static waveform with 100 bursts in the instruments ARB. In addition, the RF list mode is operated with a list containing 100 frequencies from a randomly generated list and it had be ensured that at least one of the random frequencies falls into the UNII Detection Bandwidth of the DUT. Each burst from the waveform file initiates a trigger pulse at the beginning that switches the RF list from one item to the next one.

### 3.2.4 DFS Threshold Level

| DFS Threshold Level                                                                                                                           |                                     |                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------------|
| DFS Threshold level:    -64        dBm                                                                                                        | <input type="checkbox"/>            | at the antenna connector |
|                                                                                                                                               | <input checked="" type="checkbox"/> | in front of the antenna  |
| The Interference <b>Radar Detection Threshold Level</b> is -64 dBm. That had been taken into account the output power range and antenna gain. |                                     |                          |

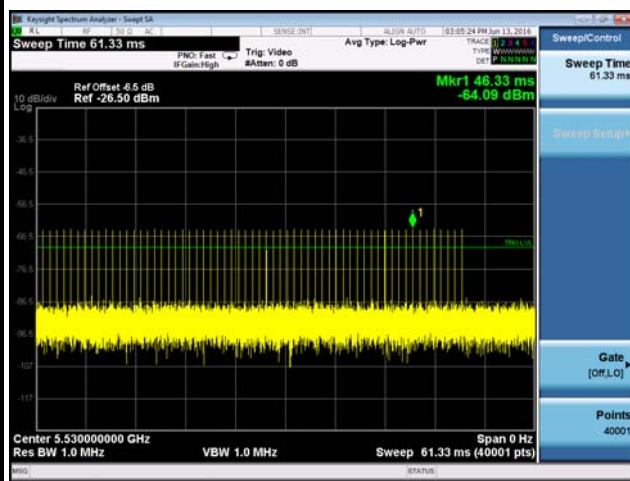
### 3.2.5 Calibration Setup



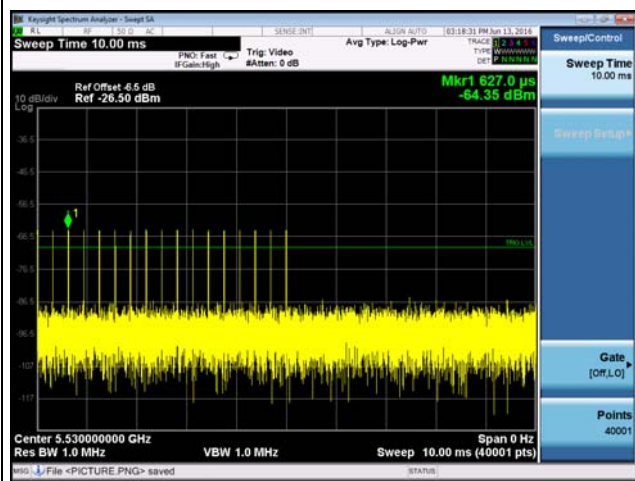


## Master - Calibration Plots

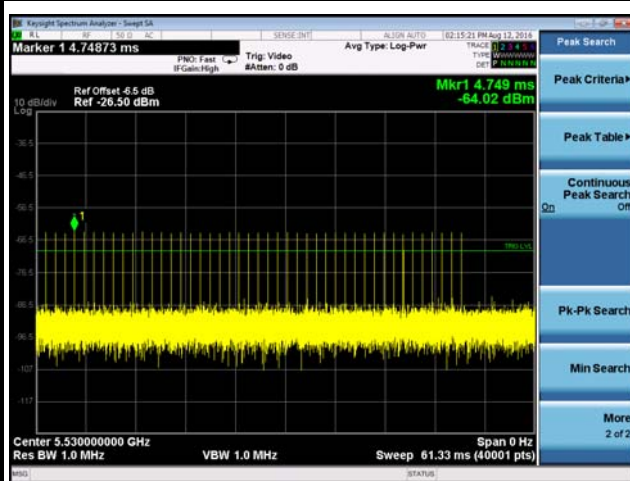
Radar #1 A DFS detection threshold level



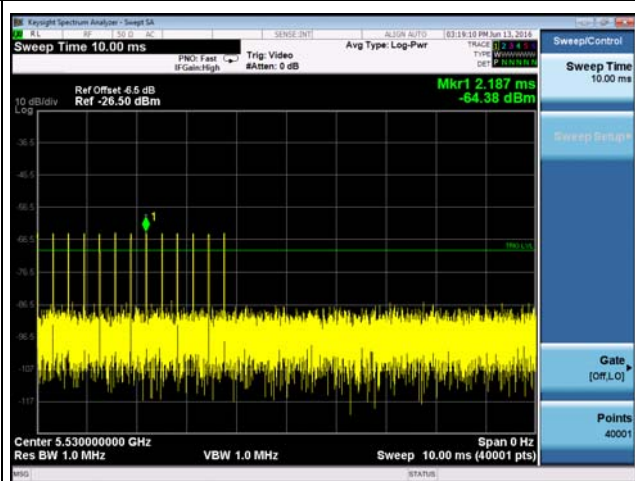
Radar #3 DFS detection threshold level



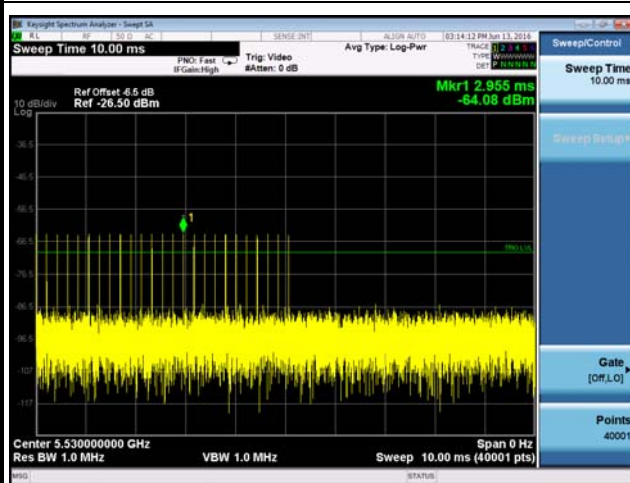
Radar #1 B DFS detection threshold level



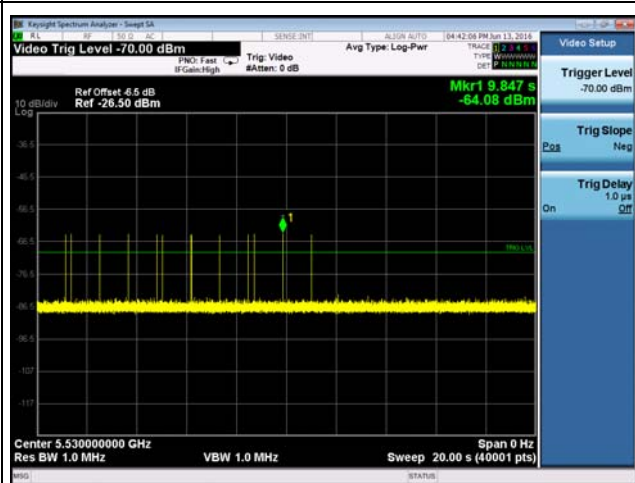
Radar #4 DFS detection threshold level



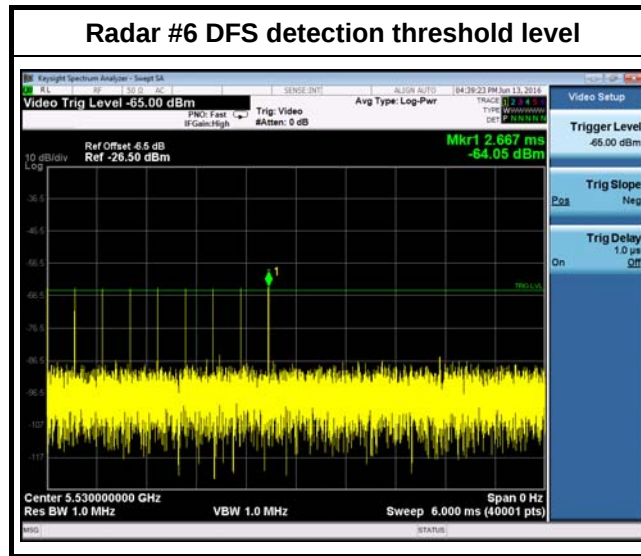
Radar #2 DFS detection threshold level



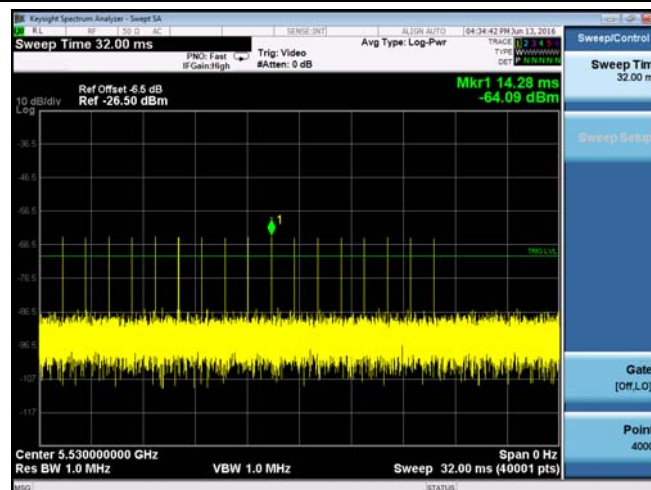
Radar #5 DFS detection threshold level



### Radar #6 DFS detection threshold level

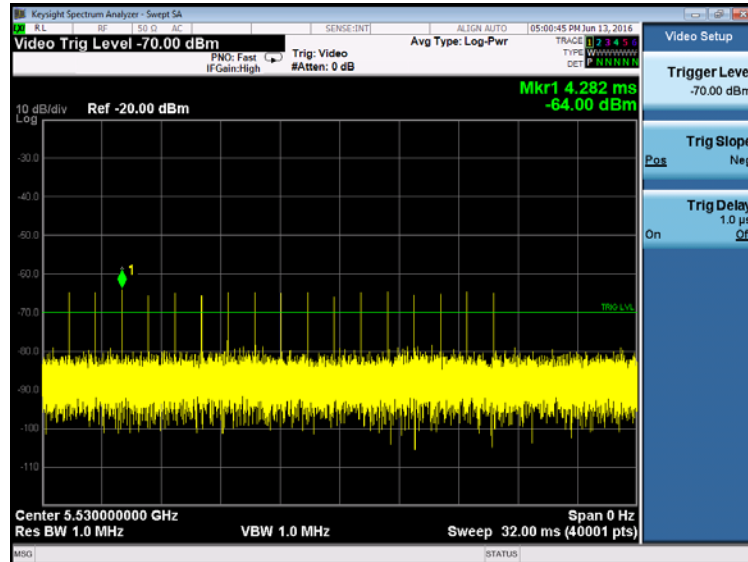


### Radar #0 DFS detection threshold level



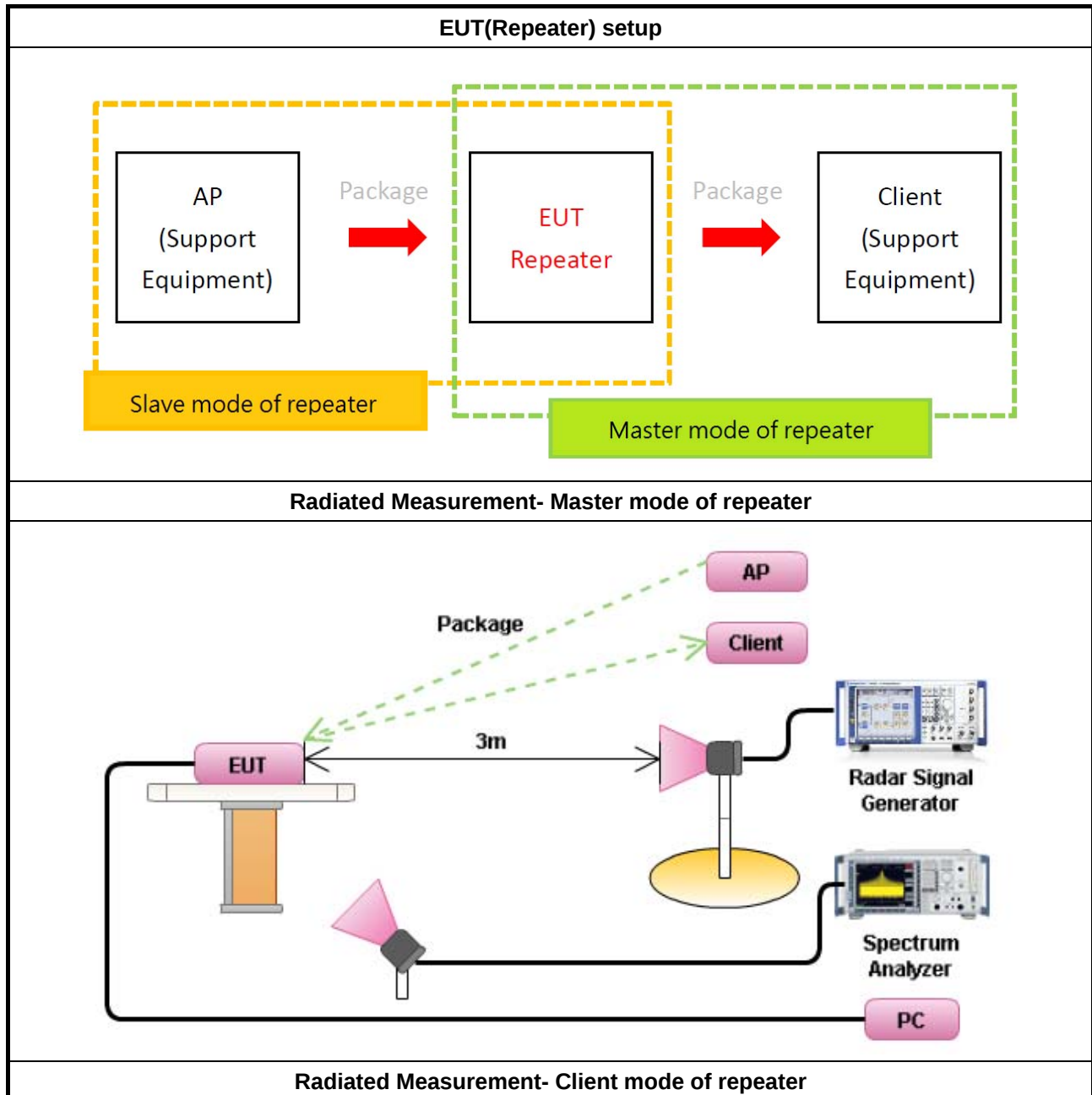
Client without radar detection - Calibration Plots

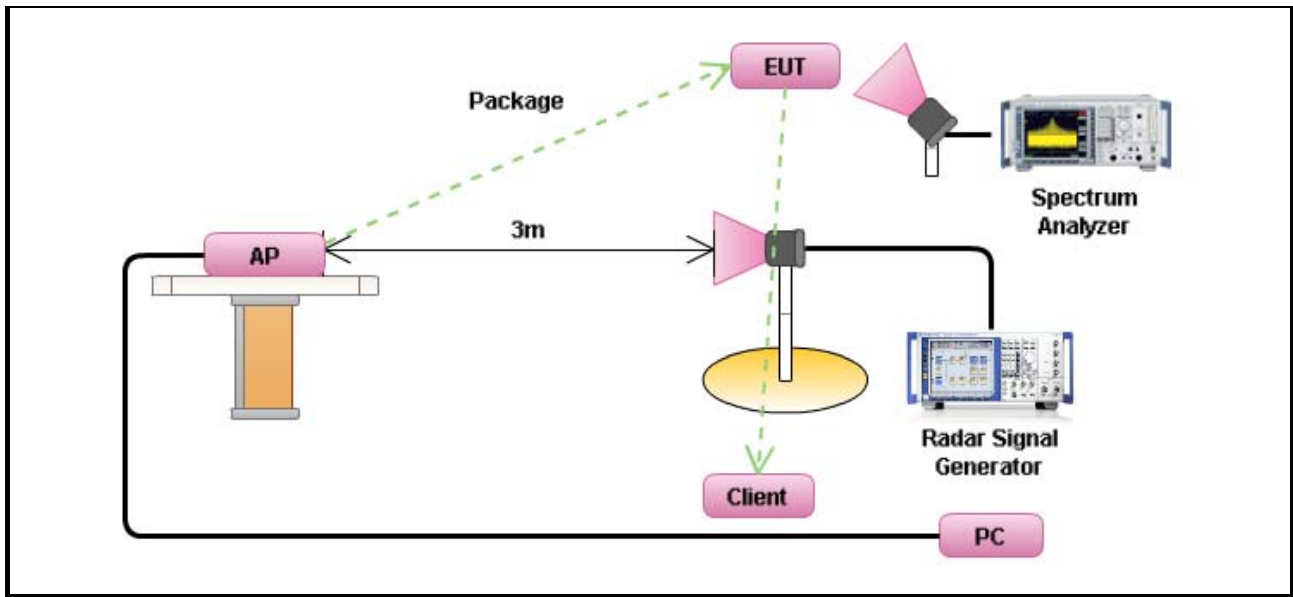
Calibration Radar #0 detection threshold level



### 3.2.6 Test Setup

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

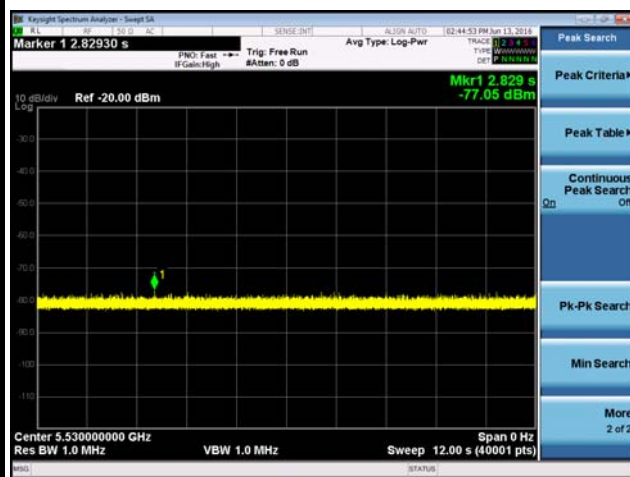




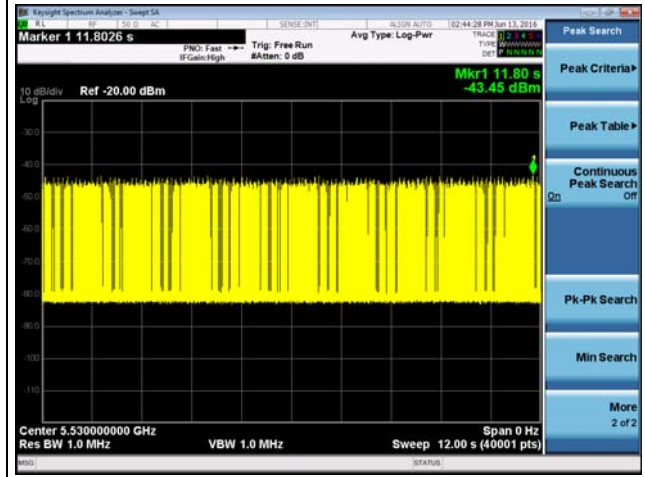
## Master

Verification that when the EUT is "off" that the RF energy emitted Plots

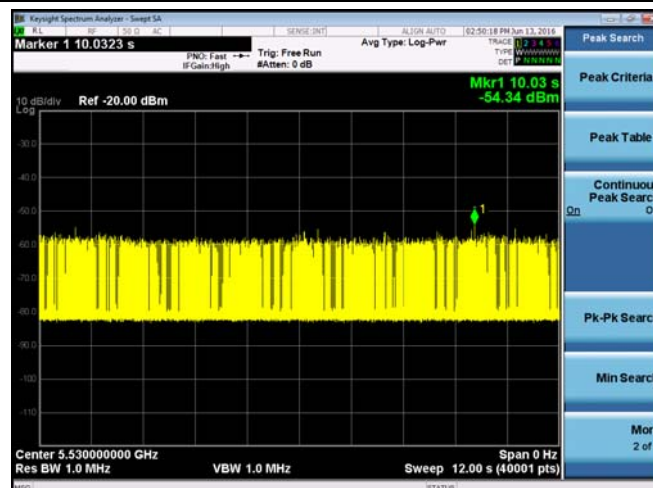
### Without Data Traffic Plot (Noise Plot)



### Master (EUT) Data Traffic Plot



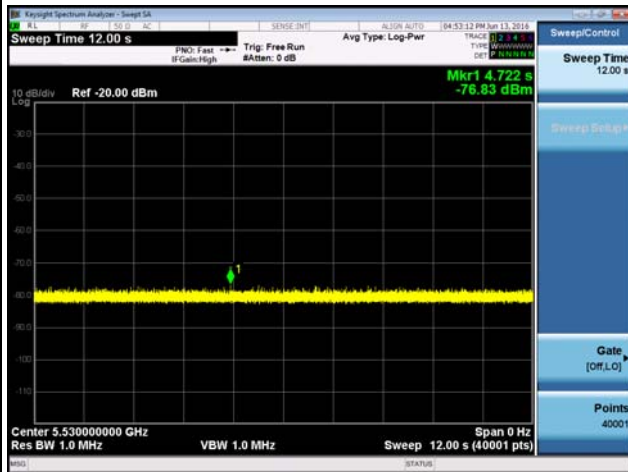
### Client Data Traffic Plot



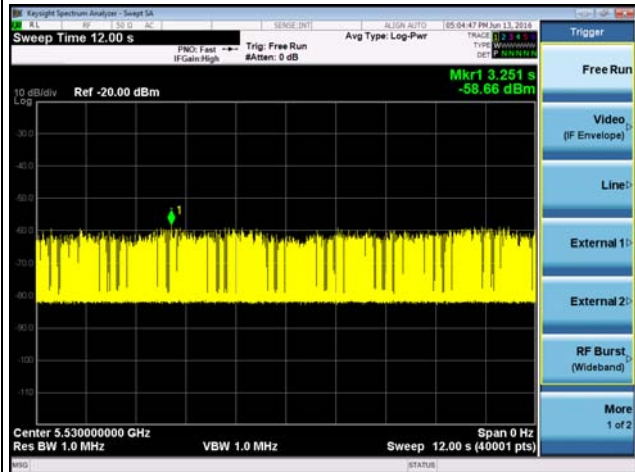
## Client without radar detection

### Verification that when the EUT is "off" that the RF energy emitted Plots

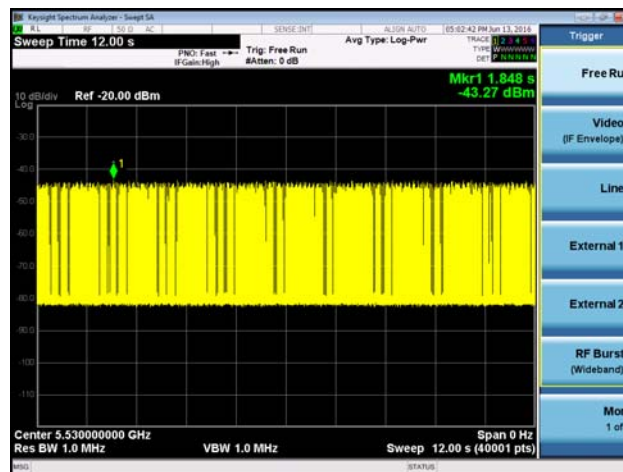
#### Without Data Traffic Plot (Noise Plot)



#### Master Data Traffic Plot



## Client (EUT) Data Traffic Plot



### 3.3 UNII Detection Bandwidth

#### 3.3.1 UNII Detection Bandwidth Limit

| Channel Bandwidth (MHz) | 99% Power Bandwidth (MHz) |
|-------------------------|---------------------------|
| 20                      | 17.660                    |
| 40                      | 36.643                    |
| 80                      | 76.265                    |

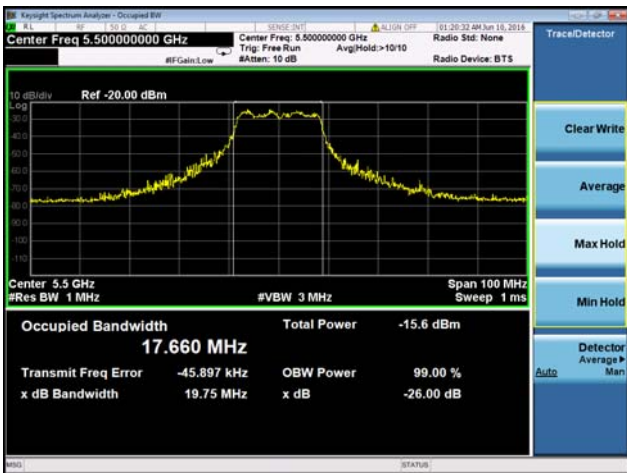
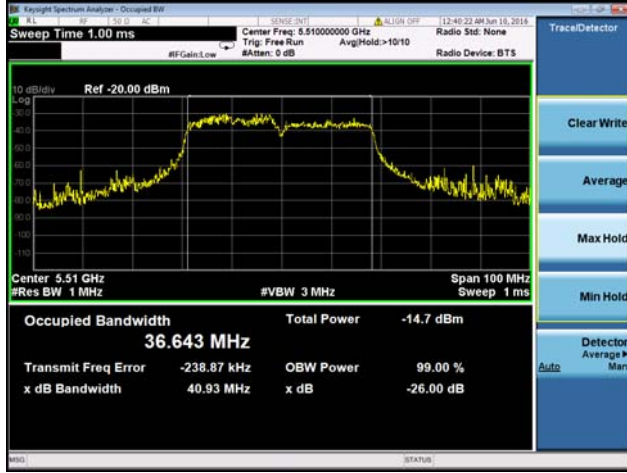
During the U-NII Detection Bandwidth detection test, any one of radar types 0 - 4 can be used and for each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic. The 99% power bandwidth is measured with 100 kHz resolution bandwidth.

#### 3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

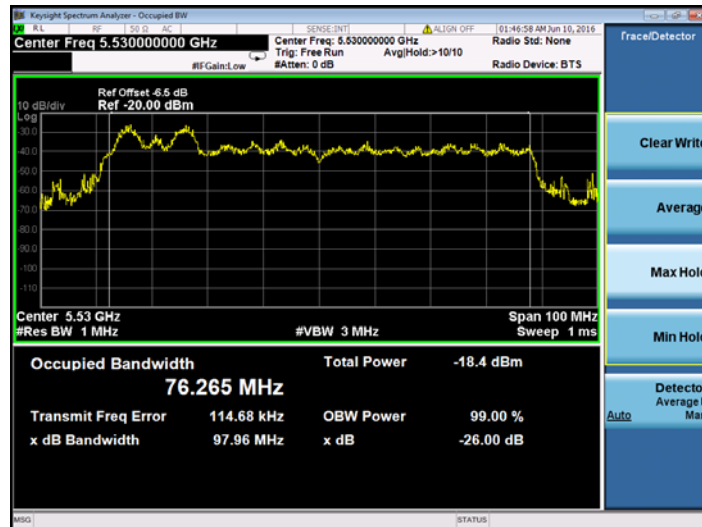
#### 3.3.3 Test Procedures

| Test Method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Refer as KDB 905462 D02, clause 7.8.1 for UNII Detection Bandwidth test. During the U-NII Detection Bandwidth detection test, radar type 0 and 5 are is used and for each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic. The EUT is set up as a standalone device (no associated Client and no traffic). The radar frequency is increased in 1 MHz steps, repeating the above test sequence, until the detection rate falls below 90%. The highest frequency at which detection is greater than or equal to 99% is denoted as $F_H$ . The radar frequency is decreased in 1 MHz steps, repeating the above test sequence, until the detection rate falls below 90%. The lowest frequency at which detection is greater than or equal to 99% is denoted as $F_L$ . UNII Detection Bandwidth = $F_H - F_L$ . |

| Master                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Emission Bandwidth Plots                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                              |
| VHT20                                                                                                                                                                                                                                                                                                                                                                                                                       | VHT40                                                                                                                                                                                                                                                                                                                                                                                                                        |
|  <p>Keynote Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.500000000 GHz, Span: 100 MHz, Res BW: 1 MHz, VBW: 3 MHz, Sweep: 1 ms</p> <p>Occupied Bandwidth: 17.660 MHz</p> <p>Total Power: -15.6 dBm</p> <p>Transmit Freq Error: -45.897 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB Bandwidth: 19.75 MHz</p> <p>x dB: -26.00 dB</p> |  <p>Keynote Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.510000000 GHz, Span: 100 MHz, Res BW: 1 MHz, VBW: 3 MHz, Sweep: 1 ms</p> <p>Occupied Bandwidth: 36.643 MHz</p> <p>Total Power: -14.7 dBm</p> <p>Transmit Freq Error: -238.87 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB Bandwidth: 40.93 MHz</p> <p>x dB: -26.00 dB</p> |



VHT80



**3.3.4 Test Result of UNII Detection Bandwidth**
**Channel Bandwidth 20MHz**

| Master                          |                                                     |   |   |    |   |   |   |   |   |    |                    |                           |
|---------------------------------|-----------------------------------------------------|---|---|----|---|---|---|---|---|----|--------------------|---------------------------|
| UNII Detection Bandwidth Result |                                                     |   |   |    |   |   |   |   |   |    |                    |                           |
| Radar Type                      |                                                     |   |   | 0  |   |   |   |   |   |    |                    |                           |
| Channel Bandwidth (MHz)         |                                                     |   |   | 20 |   |   |   |   |   |    |                    |                           |
| Radar Freq. (MHz)               | DFS Detection Trials (1=Detection, 0= No Detection) |   |   |    |   |   |   |   |   |    |                    | Detection Bandwidth (MHz) |
|                                 | 1                                                   | 2 | 3 | 4  | 5 | 6 | 7 | 8 | 9 | 10 | Detection Rate (%) |                           |
| 5491                            | 1                                                   | 1 | 1 | 1  | 1 | 1 | 1 | 1 | 1 | 1  | 100                | 20                        |
| 5495                            | 1                                                   | 1 | 1 | 1  | 1 | 1 | 1 | 1 | 1 | 1  | 100                |                           |
| 5500                            | 1                                                   | 1 | 1 | 1  | 1 | 1 | 1 | 1 | 1 | 1  | 100                |                           |
| 5505                            | 1                                                   | 1 | 1 | 1  | 1 | 1 | 1 | 1 | 1 | 1  | 100                |                           |
| 5510                            | 1                                                   | 1 | 1 | 1  | 1 | 1 | 1 | 1 | 1 | 1  | 100                |                           |
| Limit (MHz)                     |                                                     |   |   |    |   |   |   |   |   |    |                    | 17.660                    |
| Result                          |                                                     |   |   |    |   |   |   |   |   |    |                    | Complied                  |

**Channel Bandwidth 40MHz**

| Master                          |                                                     |    |   |   |   |   |   |   |   |    |                    |                           |
|---------------------------------|-----------------------------------------------------|----|---|---|---|---|---|---|---|----|--------------------|---------------------------|
| UNII Detection Bandwidth Result |                                                     |    |   |   |   |   |   |   |   |    |                    |                           |
| Radar Type                      |                                                     | 0  |   |   |   |   |   |   |   |    |                    |                           |
| Channel Bandwidth (MHz)         |                                                     | 40 |   |   |   |   |   |   |   |    |                    |                           |
| Radar Freq. (MHz)               | DFS Detection Trials (1=Detection, 0= No Detection) |    |   |   |   |   |   |   |   |    |                    | Detection Bandwidth (MHz) |
|                                 | 1                                                   | 2  | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Detection Rate (%) |                           |
| 5490                            | 0                                                   | 0  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0                  | 39                        |
| 5491                            | 1                                                   | 1  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100                |                           |
| 5492                            | 1                                                   | 1  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100                |                           |
| 5493                            | 1                                                   | 1  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100                |                           |
| 5494                            | 1                                                   | 1  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100                |                           |
| 5495                            | 1                                                   | 1  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100                |                           |
| 5500                            | 1                                                   | 1  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100                |                           |
| 5505                            | 1                                                   | 1  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100                |                           |
| 5510                            | 1                                                   | 1  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100                |                           |
| 5515                            | 1                                                   | 1  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100                |                           |
| 5520                            | 1                                                   | 1  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100                |                           |
| 5525                            | 1                                                   | 1  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100                |                           |
| 5526                            | 1                                                   | 1  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100                |                           |
| 5527                            | 1                                                   | 1  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100                |                           |
| 5528                            | 1                                                   | 1  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100                |                           |
| 5529                            | 1                                                   | 1  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100                |                           |
| 5530                            | 1                                                   | 1  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 0                  |                           |
| Limit (MHz)                     |                                                     |    |   |   |   |   |   |   |   |    |                    | 36.643                    |
| Result                          |                                                     |    |   |   |   |   |   |   |   |    |                    | Complied                  |



**Channel Bandwidth 80MHz**

| Master                          |                                                     |    |   |   |   |   |   |   |   |    |                    |                           |
|---------------------------------|-----------------------------------------------------|----|---|---|---|---|---|---|---|----|--------------------|---------------------------|
| UNII Detection Bandwidth Result |                                                     |    |   |   |   |   |   |   |   |    |                    |                           |
| Radar Type                      |                                                     | 0  |   |   |   |   |   |   |   |    |                    |                           |
| Channel Bandwidth (MHz)         |                                                     | 80 |   |   |   |   |   |   |   |    |                    |                           |
| Radar Freq. (MHz)               | DFS Detection Trials (1=Detection, 0= No Detection) |    |   |   |   |   |   |   |   |    |                    | Detection Bandwidth (MHz) |
|                                 | 1                                                   | 2  | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Detection Rate (%) |                           |
| 5490                            | 1                                                   | 1  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100                | 81                        |
| 5495                            | 1                                                   | 1  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100                |                           |
| 5500                            | 1                                                   | 1  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100                |                           |
| 5505                            | 1                                                   | 1  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100                |                           |
| 5510                            | 1                                                   | 1  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100                |                           |
| 5515                            | 1                                                   | 1  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100                |                           |
| 5520                            | 1                                                   | 1  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100                |                           |
| 5525                            | 1                                                   | 1  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100                |                           |
| 5530                            | 1                                                   | 1  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100                |                           |
| 5535                            | 1                                                   | 1  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100                |                           |
| 5540                            | 1                                                   | 1  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100                |                           |
| 5545                            | 1                                                   | 1  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100                |                           |
| 5550                            | 1                                                   | 1  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100                |                           |
| 5555                            | 1                                                   | 1  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0  | 90                 |                           |
| 5560                            | 1                                                   | 1  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100                |                           |
| 5565                            | 1                                                   | 1  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100                |                           |
| 5570                            | 1                                                   | 1  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100                |                           |
| Limit (MHz)                     |                                                     |    |   |   |   |   |   |   |   |    |                    | 76.265                    |
| Result                          |                                                     |    |   |   |   |   |   |   |   |    |                    | Complied                  |

### 3.4 Channel Availability Check (CAC)

#### 3.4.1 Channel Availability Check Limit

| Channel Availability Check Limit    |                                                                                                                                                                                                                |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | The EUT shall perform a Channel Availability Check to ensure that there is no radar operating on the channel. After power-up sequence, receive at least 1 minute (60 sec) on the intended operating frequency. |

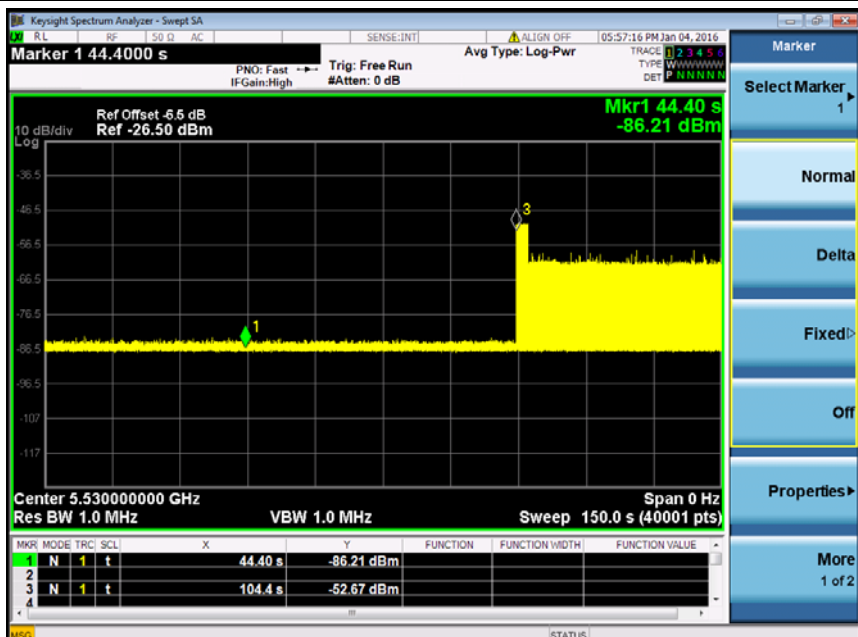
#### 3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

#### 3.4.3 Test Procedures

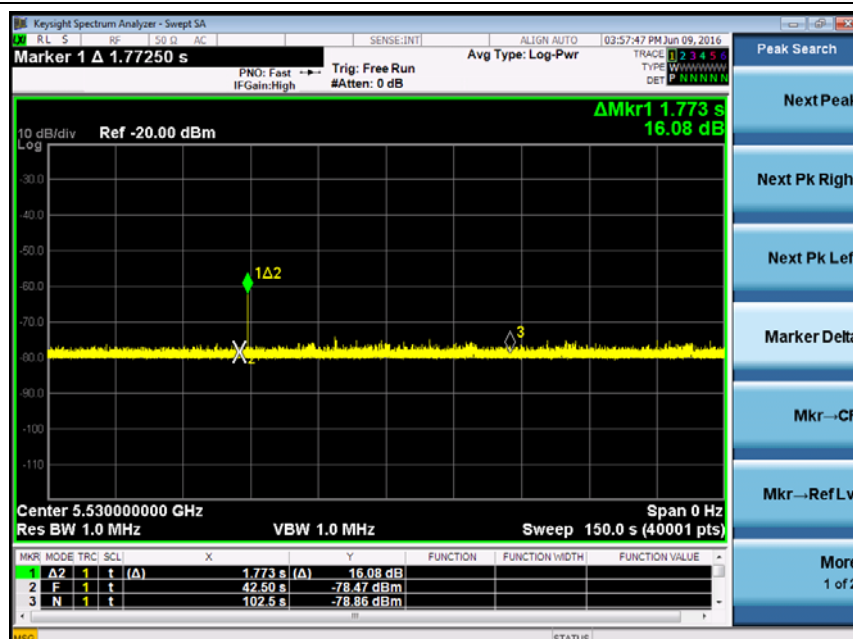
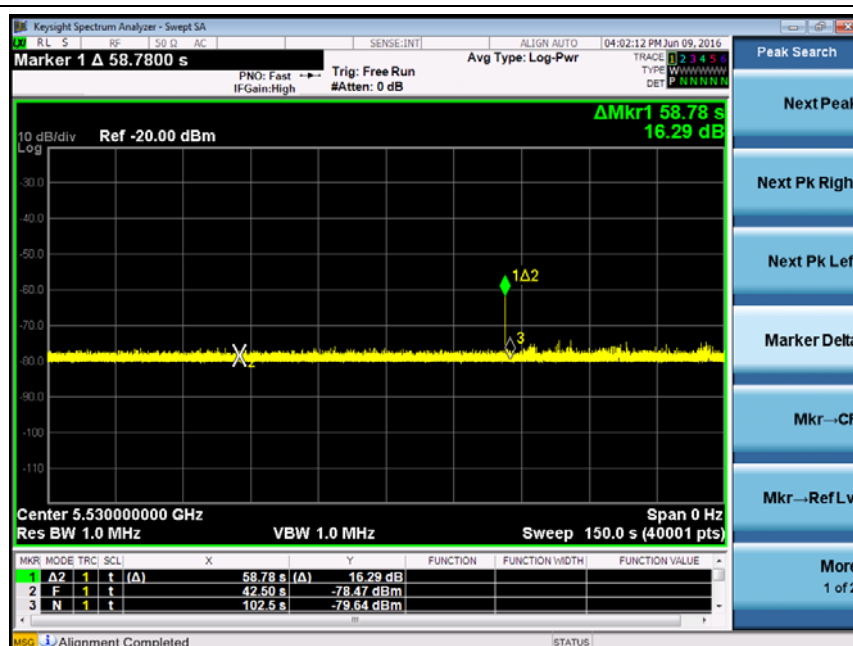
| Test Method                         |                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | Refer as KDB 905462 D02, clause 7.8.2.1 for Initial Channel Availability Check Time. The EUT does not emit beacon, control, or data signals on the test Channel until the power-up sequence has been completed and the UNII device checks for Radar Waveforms for one minute on the test Channel. This test does not use any Radar Waveforms. |
| <input checked="" type="checkbox"/> | Refer as KDB 905462 D02, clause 7.8.2.2 for Radar Burst at the Beginning of the Channel Availability Check Time. To verify successful radar detection on the selected Channel during a period equal to the Beginning of the Channel Availability Check Time.                                                                                  |
| <input checked="" type="checkbox"/> | Refer as KDB 905462 D02, clause 7.8.2.3 for Radar Burst at the End of the Channel Availability Check Time. To verify successful radar detection on the selected Channel during a period equal to the End of the Channel Availability Check Time.                                                                                              |

### 3.4.4 Test Result of Channel Availability Check Time

| Master                                                                              |             |                   |                       |                |                      |
|-------------------------------------------------------------------------------------|-------------|-------------------|-----------------------|----------------|----------------------|
| Initial Channel Availability Check Time Result                                      |             |                   |                       |                |                      |
| Modulation Mode                                                                     | Freq. (MHz) | Radar Test Signal | Power-on Cycle. (sec) | CAC Time (sec) | Observation Time (s) |
| VHT80                                                                               | 5530        | N/A               | 104.4                 | 60             | 150                  |
| Result 150s Timing Plot                                                             |             |                   | Complied              |                |                      |
|  |             |                   |                       |                |                      |
| Note 1 : This test does not use any Radar Waveforms.                                |             |                   |                       |                |                      |

**Master**
**Channel Availability Check Time Result**

| Modulation Mode | Freq. (MHz) | Radar Type Signal | Beginning CAC of Timing of radar burst (sec) | End CAC of Timing of radar burst (sec) | DFS Triggered (Yes/No) |
|-----------------|-------------|-------------------|----------------------------------------------|----------------------------------------|------------------------|
| VHT80           | 5530        | 1                 | 6                                            | 54                                     | Yes                    |
| <b>Result</b>   |             |                   | <b>Complied</b>                              |                                        |                        |

**Beginning CAC of 150s Timing Plot**

**End CAC of 150s Timing Plot**


### 3.5 In-service Monitoring

#### 3.5.1 In-service Monitoring Limit

| In-service Monitoring Limit       |                                                               |
|-----------------------------------|---------------------------------------------------------------|
| Channel Move Time                 | 10 sec                                                        |
| Channel Closing Transmission Time | 200 ms + an aggregate of 60 ms over remaining 10 sec periods. |
| Non-occupancy period              | Minimum 30 minutes                                            |

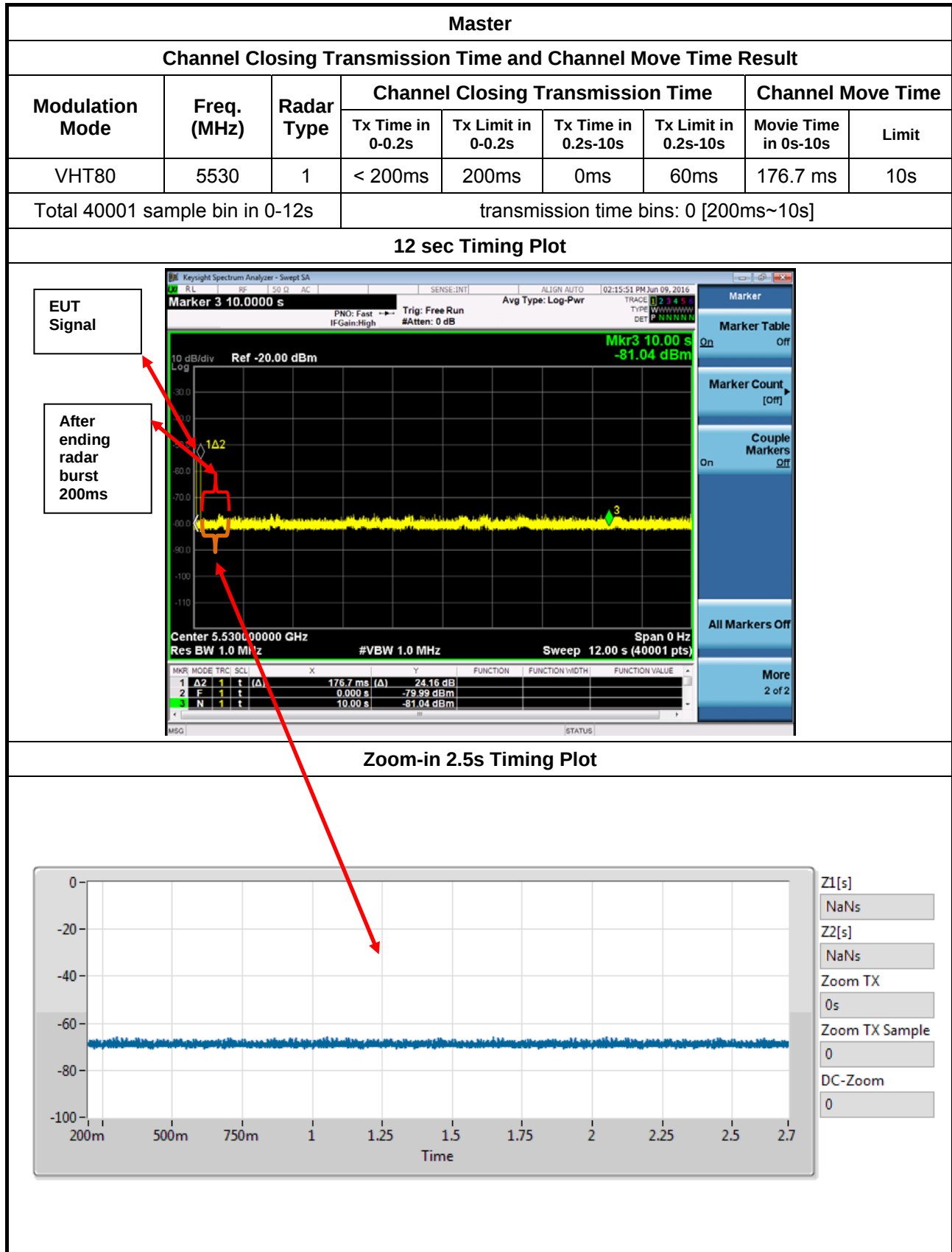
#### 3.5.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

#### 3.5.3 Test Procedures

| Test Method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Refer as KDB 905462 D02, clause 7.8.3 verified during In-Service Monitoring; Channel Closing Transmission Time, Channel Move Time. Client Device will associate with the EUT. 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). Compare the Channel Move Time and Channel Closing Transmission Time limits. |
| <input checked="" type="checkbox"/> Refer as KDB 905462 D02, clause 8.3 verified during In-Service Monitoring; Channel Closing Transmission Time, Channel Move Time. One 10 sec plot needs to be reported for the Short Pulse Radar Types 0 in a 12 sec plot. And zoom-in a 600 ms plot verified channel closing time for the aggregate transmission time starting from 200ms after the end of the radar signal to the completion of the channel move.                                                                             |
| <input checked="" type="checkbox"/> Refer as KDB 905462 D02, clause 7.8.3 verified during In-Service Monitoring; Non-Occupancy Period. Client Device will associate with the EUT. 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 (Non-Occupancy Period). Compare the Non-Occupancy Period limits.                                                                 |

### 3.5.4 Test Result of In-service Monitoring



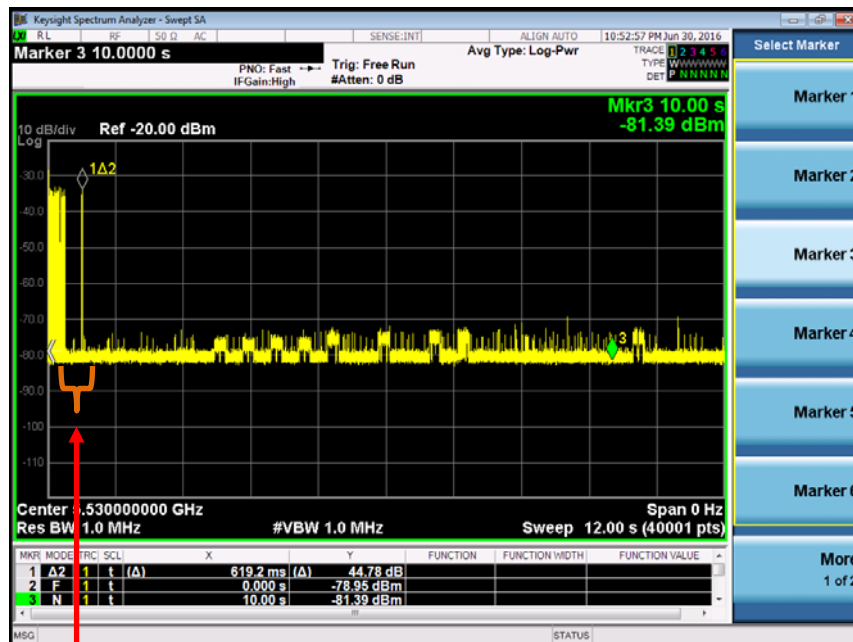


## Client without radar detection

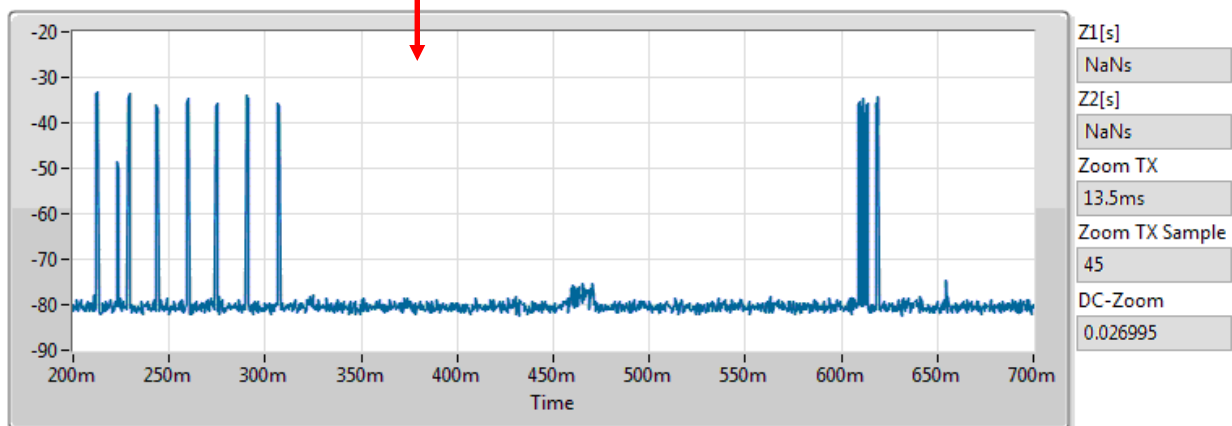
### Channel Closing Transmission Time and Channel Move Time Result

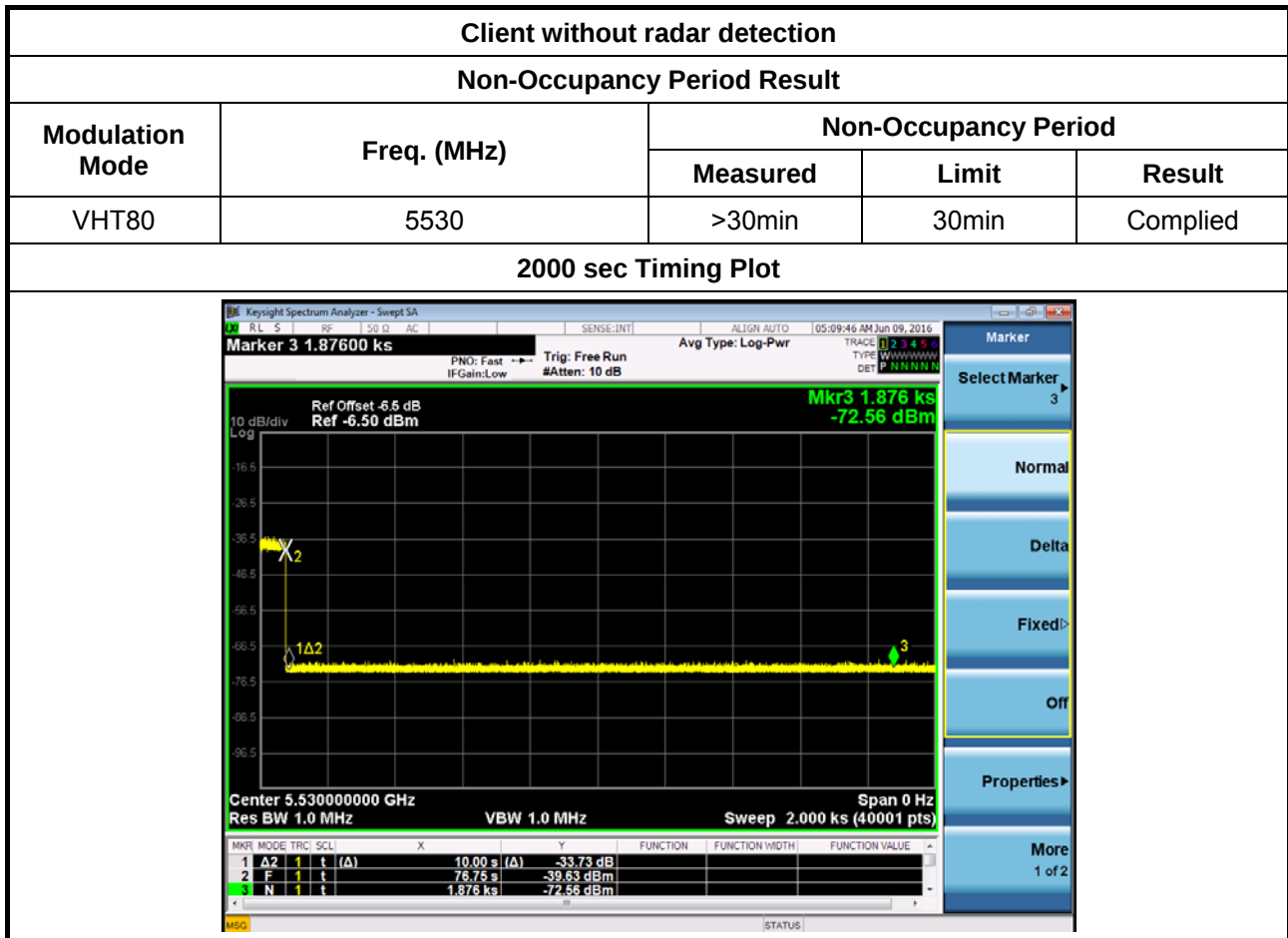
| Modulation Mode                  | Freq. (MHz) | Radar Type | Channel Closing Transmission Time |                 |                  |                   | Channel Move Time |       |
|----------------------------------|-------------|------------|-----------------------------------|-----------------|------------------|-------------------|-------------------|-------|
|                                  |             |            | Test (0-200ms)                    | Limit (0-200ms) | Test (200ms-10s) | Limit (200ms-10s) | Test              | Limit |
| VHT80                            | 5530        | 0          | < 200ms                           | 200ms           | 13.5ms           | 60ms              | 619.2ms           | 10 s  |
| 40001 sample bin for measurement |             |            | 45 bin [200ms~10s]                |                 |                  |                   |                   |       |

### 12 sec Timing Plot

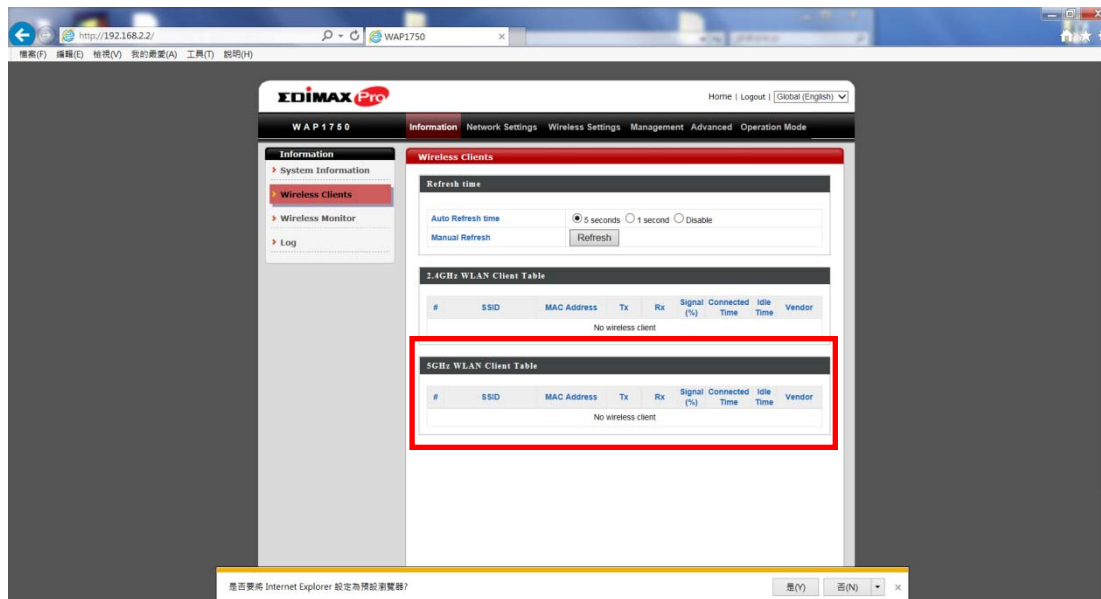


### Zoom-in 0.5s Timing Plot

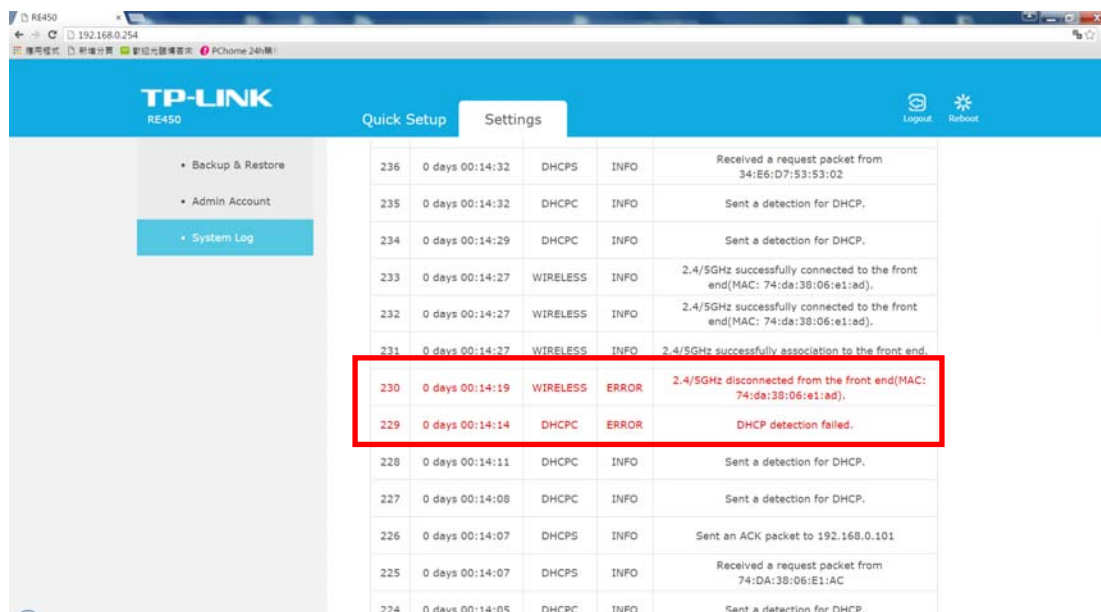




## AP status after radar detection.



## EUT status after radar detection.



### 3.6 Statistical Performance Check

#### 3.6.1 Statistical Performance Check Limit

| Radar Type                  | Minimum Percentage of Successful Detection (Pd) | Minimum Trials |
|-----------------------------|-------------------------------------------------|----------------|
| 1                           | 60%                                             | 30             |
| 2                           | 60%                                             | 30             |
| 3                           | 60%                                             | 30             |
| 4                           | 60%                                             | 30             |
| Aggregate (Radar Types 1-4) | 80%                                             | 120            |
| 5                           | 80%                                             | 10             |
|                             |                                                 | 10             |
|                             |                                                 | 10             |
| 6                           | 70%                                             | 30             |

The percentage of successful detection is calculated by:

$$\frac{\text{TotalWaveformDetections}}{\text{TotalWaveformTrials}} \times 100 = \text{Probability of Detection Radar Waveform}$$

In addition an aggregate minimum percentage of successful detection across all Short Pulse Radar Types 1-4 is required and is calculated as follows:

$$\frac{Pd1 + Pd2 + Pd3 + Pd4}{4}$$

#### 3.6.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

#### 3.6.3 Test Procedures

| Test Method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Refer as KDB 905462 D02, clause 7.8.4 for Statistical Performance Check test. Stream the MPEG test file from the Master Device to the Client Device on the test Channel for the entire period of the test. Observe the transmissions of the UUT at the end of the Burst on the Operating Channel for duration greater than 10 seconds for Short Pulse Radar Types 1-4 and 6 to ensure detection occurs. Then 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. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trial runs. |

**3.6.4 Test Result of Statistical Performance Check**

| Master                                       |              |                |         |              |          |
|----------------------------------------------|--------------|----------------|---------|--------------|----------|
| Statistical Performance Check Result – VHT20 |              |                |         |              |          |
| Radar Signal (#)                             | Test Trail # | Detect Trail # | Pd (%)  | Limit Pd (%) | Result   |
| 1                                            | 30           | 30             | 100.00% | 60           | Complied |
| 2                                            | 30           | 27             | 76.67%  | 60           | Complied |
| 3                                            | 30           | 29             | 76.67%  | 60           | Complied |
| 4                                            | 30           | 29             | 80.00%  | 60           | Complied |
| Aggregate 1 - 4                              | 120          | 115            | 83.33%  | 80           | Complied |
| 5 F <sub>center</sub>                        | 10           | 10             | 100.00% | 80           | Complied |
| 5 F <sub>H</sub>                             | 10           | 10             |         |              |          |
| 5 F <sub>L</sub>                             | 10           | 10             |         |              |          |
| 6                                            | 30           | 29             | 96.67%  | 70           | Complied |

| Master                                       |              |                |         |              |          |
|----------------------------------------------|--------------|----------------|---------|--------------|----------|
| Statistical Performance Check Result – VHT40 |              |                |         |              |          |
| Radar Signal (#)                             | Test Trail # | Detect Trail # | Pd (%)  | Limit Pd (%) | Result   |
| 1                                            | 30           | 30             | 100.00% | 60           | Complied |
| 2                                            | 30           | 30             | 86.67%  | 60           | Complied |
| 3                                            | 30           | 30             | 93.33%  | 60           | Complied |
| 4                                            | 30           | 29             | 76.67%  | 60           | Complied |
| Aggregate 1 - 4                              | 120          | 119            | 89.17%  | 80           | Complied |
| 5 F <sub>center</sub>                        | 10           | 10             | 100.00% | 80           | Complied |
| 5 F <sub>H</sub>                             | 10           | 10             |         |              |          |
| 5 F <sub>L</sub>                             | 10           | 10             |         |              |          |
| 6                                            | 30           | 30             | 100.00% | 70           | Complied |



| Master                                       |              |                |         |              |          |
|----------------------------------------------|--------------|----------------|---------|--------------|----------|
| Statistical Performance Check Result – VHT80 |              |                |         |              |          |
| Radar Signal (#)                             | Test Trail # | Detect Trail # | Pd (%)  | Limit Pd (%) | Result   |
| 1                                            | 30           | 30             | 100.00% | 60           | Complied |
| 2                                            | 30           | 30             | 93.33%  | 60           | Complied |
| 3                                            | 30           | 30             | 86.67%  | 60           | Complied |
| 4                                            | 30           | 30             | 76.67%  | 60           | Complied |
| Aggregate 1 - 4                              | 120          | 120            | 89.17%  | 80           | Complied |
| 5 F <sub>center</sub>                        | 10           | 10             | 100.00% | 80           | Complied |
| 5 F <sub>H</sub>                             | 10           | 10             |         |              |          |
| 5 F <sub>L</sub>                             | 10           | 10             |         |              |          |
| 6                                            | 30           | 30             | 100.00% | 70           | Complied |

**3.6.5 Detection Data Sheet for Radar Types 1, 2,3,4,5, and 6**

| Trail # | Radar Type | Test Freq. (MHz) | 1       | 2      | 3      | 4      | 6      | Test Freq. (MHz) | 5       |
|---------|------------|------------------|---------|--------|--------|--------|--------|------------------|---------|
| 1       |            | 5500             | 1       | 0      | 0      | 1      | 1      | 5493.5           | 1       |
| 2       |            | 5500             | 1       | 1      | 1      | 1      | 1      | 5493.5           | 1       |
| 3       |            | 5500             | 1       | 1      | 1      | 1      | 1      | 5493.5           | 1       |
| 4       |            | 5500             | 1       | 1      | 1      | 1      | 1      | 5493.5           | 1       |
| 5       |            | 5500             | 1       | 1      | 1      | 1      | 1      | 5493.5           | 1       |
| 6       |            | 5500             | 1       | 1      | 1      | 1      | 1      | 5493.5           | 1       |
| 7       |            | 5500             | 1       | 1      | 1      | 1      | 1      | 5493.5           | 1       |
| 8       |            | 5500             | 1       | 1      | 1      | 0      | 1      | 5493.5           | 1       |
| 9       |            | 5500             | 1       | 1      | 1      | 1      | 1      | 5493.5           | 1       |
| 10      |            | 5500             | 1       | 1      | 0      | 0      | 1      | 5493.5           | 1       |
| 11      |            | 5500             | 1       | 1      | 1      | 1      | 1      | 5500             | 1       |
| 12      |            | 5500             | 1       | 1      | 1      | 1      | 1      | 5500             | 1       |
| 13      |            | 5500             | 1       | 1      | 1      | 0      | 1      | 5500             | 1       |
| 14      |            | 5500             | 1       | 0      | 0      | 1      | 1      | 5500             | 1       |
| 15      |            | 5500             | 1       | 1      | 0      | 1      | 1      | 5500             | 1       |
| 16      |            | 5500             | 1       | 1      | 1      | 1      | 1      | 5500             | 1       |
| 17      |            | 5500             | 1       | 1      | 1      | 1      | 1      | 5500             | 1       |
| 18      |            | 5500             | 1       | 0      | 0      | 1      | 1      | 5500             | 1       |
| 19      |            | 5500             | 1       | 1      | 1      | 1      | 1      | 5500             | 1       |
| 20      |            | 5500             | 1       | 1      | 0      | 1      | 0      | 5500             | 1       |
| 21      |            | 5500             | 1       | 0      | 1      | 1      | 1      | 5506.5           | 1       |
| 22      |            | 5500             | 1       | 1      | 1      | 1      | 1      | 5506.5           | 1       |
| 23      |            | 5500             | 1       | 1      | 1      | 0      | 1      | 5506.5           | 1       |
| 24      |            | 5500             | 1       | 1      | 0      | 0      | 1      | 5506.5           | 1       |
| 25      |            | 5500             | 1       | 0      | 1      | 1      | 1      | 5506.5           | 1       |
| 26      |            | 5500             | 1       | 1      | 1      | 1      | 1      | 5506.5           | 1       |
| 27      |            | 5500             | 1       | 1      | 1      | 1      | 1      | 5506.5           | 1       |
| 28      |            | 5500             | 1       | 0      | 1      | 0      | 1      | 5506.5           | 1       |
| 29      |            | 5500             | 1       | 1      | 1      | 1      | 1      | 5506.5           | 1       |
| 30      |            | 5500             | 1       | 0      | 1      | 1      | 1      | 5506.5           | 1       |
| Pd (%)  |            |                  | 100.00% | 76.67% | 76.67% | 80.00% | 96.67% |                  | 100.00% |



| <div>Radar Type</div> <div>Trail #</div> | Test Freq.<br>(MHz) | 1       | 2      | 3      | 4      | 6       | Test Freq.<br>(MHz) | 5       |
|------------------------------------------|---------------------|---------|--------|--------|--------|---------|---------------------|---------|
| 1                                        | 5510                | 1       | 0      | 0      | 0      | 1       | 5494                | 1       |
| 2                                        | 5510                | 1       | 1      | 1      | 1      | 1       | 5494                | 1       |
| 3                                        | 5510                | 1       | 1      | 1      | 0      | 1       | 5494                | 1       |
| 4                                        | 5510                | 1       | 1      | 1      | 1      | 1       | 5494                | 1       |
| 5                                        | 5510                | 1       | 1      | 1      | 1      | 1       | 5494                | 1       |
| 6                                        | 5510                | 1       | 1      | 1      | 1      | 1       | 5494                | 1       |
| 7                                        | 5510                | 1       | 1      | 1      | 0      | 1       | 5494                | 1       |
| 8                                        | 5510                | 1       | 1      | 1      | 1      | 1       | 5494                | 1       |
| 9                                        | 5510                | 1       | 1      | 1      | 1      | 1       | 5494                | 1       |
| 10                                       | 5510                | 1       | 1      | 1      | 1      | 1       | 5494                | 1       |
| 11                                       | 5510                | 1       | 0      | 0      | 1      | 1       | 5510                | 1       |
| 12                                       | 5510                | 1       | 1      | 1      | 1      | 1       | 5510                | 1       |
| 13                                       | 5510                | 1       | 1      | 1      | 1      | 1       | 5510                | 1       |
| 14                                       | 5510                | 1       | 0      | 1      | 1      | 1       | 5510                | 1       |
| 15                                       | 5510                | 1       | 1      | 1      | 1      | 1       | 5510                | 1       |
| 16                                       | 5510                | 1       | 1      | 1      | 1      | 1       | 5510                | 1       |
| 17                                       | 5510                | 1       | 1      | 1      | 1      | 1       | 5510                | 1       |
| 18                                       | 5510                | 1       | 0      | 1      | 1      | 1       | 5510                | 1       |
| 19                                       | 5510                | 1       | 1      | 1      | 1      | 1       | 5510                | 1       |
| 20                                       | 5510                | 1       | 1      | 1      | 0      | 1       | 5510                | 1       |
| 21                                       | 5510                | 1       | 1      | 1      | 1      | 1       | 5526                | 1       |
| 22                                       | 5510                | 1       | 1      | 1      | 0      | 1       | 5526                | 1       |
| 23                                       | 5510                | 1       | 1      | 1      | 1      | 1       | 5526                | 1       |
| 24                                       | 5510                | 1       | 1      | 1      | 1      | 1       | 5526                | 1       |
| 25                                       | 5510                | 1       | 1      | 1      | 1      | 1       | 5526                | 1       |
| 26                                       | 5510                | 1       | 1      | 1      | 0      | 1       | 5526                | 1       |
| 27                                       | 5510                | 1       | 1      | 1      | 1      | 1       | 5526                | 1       |
| 28                                       | 5510                | 1       | 1      | 1      | 1      | 1       | 5526                | 1       |
| 29                                       | 5510                | 1       | 1      | 1      | 1      | 1       | 5526                | 1       |
| 30                                       | 5510                | 1       | 1      | 1      | 0      | 1       | 5526                | 1       |
| Pd (%)                                   |                     | 100.00% | 86.67% | 93.33% | 76.67% | 100.00% |                     | 100.00% |



| <div>Radar Type</div> <div>Trail #</div> | Test Freq.<br>(MHz) | 1       | 2      | 3      | 4      | 6       | Test Freq.<br>(MHz) | 5       |
|------------------------------------------|---------------------|---------|--------|--------|--------|---------|---------------------|---------|
| 1                                        | 5530                | 1       | 1      | 1      | 1      | 1       | 5494                | 1       |
| 2                                        | 5530                | 1       | 1      | 1      | 1      | 1       | 5494                | 1       |
| 3                                        | 5530                | 1       | 1      | 0      | 1      | 1       | 5494                | 1       |
| 4                                        | 5530                | 1       | 1      | 1      | 0      | 1       | 5494                | 1       |
| 5                                        | 5530                | 1       | 1      | 0      | 1      | 1       | 5494                | 1       |
| 6                                        | 5530                | 1       | 1      | 1      | 0      | 1       | 5494                | 1       |
| 7                                        | 5530                | 1       | 1      | 1      | 1      | 1       | 5494                | 1       |
| 8                                        | 5530                | 1       | 1      | 1      | 1      | 1       | 5494                | 1       |
| 9                                        | 5530                | 1       | 0      | 1      | 1      | 1       | 5494                | 1       |
| 10                                       | 5530                | 1       | 1      | 1      | 1      | 1       | 5494                | 1       |
| 11                                       | 5530                | 1       | 1      | 1      | 1      | 1       | 5530                | 1       |
| 12                                       | 5530                | 1       | 1      | 1      | 0      | 1       | 5530                | 1       |
| 13                                       | 5530                | 1       | 1      | 1      | 1      | 1       | 5530                | 1       |
| 14                                       | 5530                | 1       | 1      | 1      | 1      | 1       | 5530                | 1       |
| 15                                       | 5530                | 1       | 1      | 1      | 0      | 1       | 5530                | 1       |
| 16                                       | 5530                | 1       | 1      | 0      | 1      | 1       | 5530                | 1       |
| 17                                       | 5530                | 1       | 1      | 1      | 1      | 1       | 5530                | 1       |
| 18                                       | 5530                | 1       | 1      | 1      | 1      | 1       | 5530                | 1       |
| 19                                       | 5530                | 1       | 1      | 1      | 1      | 1       | 5530                | 1       |
| 20                                       | 5530                | 1       | 1      | 1      | 1      | 1       | 5530                | 1       |
| 21                                       | 5530                | 1       | 1      | 0      | 0      | 1       | 5566                | 1       |
| 22                                       | 5530                | 1       | 0      | 1      | 1      | 1       | 5566                | 1       |
| 23                                       | 5530                | 1       | 1      | 1      | 0      | 1       | 5566                | 1       |
| 24                                       | 5530                | 1       | 1      | 1      | 1      | 1       | 5566                | 1       |
| 25                                       | 5530                | 1       | 1      | 1      | 0      | 1       | 5566                | 1       |
| 26                                       | 5530                | 1       | 1      | 1      | 1      | 1       | 5566                | 1       |
| 27                                       | 5530                | 1       | 1      | 1      | 1      | 1       | 5566                | 1       |
| 28                                       | 5530                | 1       | 1      | 1      | 1      | 1       | 5566                | 1       |
| 29                                       | 5530                | 1       | 1      | 1      | 1      | 1       | 5566                | 1       |
| 30                                       | 5530                | 1       | 1      | 1      | 1      | 1       | 5566                | 1       |
| Pd (%)                                   |                     | 100.00% | 93.33% | 86.67% | 76.67% | 100.00% |                     | 100.00% |

### 3.6.6 Parameter Data Sheet for Radar Type 1 ~ 6

#### Data Sheet for Radar Type 1

| Radar Type | 1                |          |                                                               |
|------------|------------------|----------|---------------------------------------------------------------|
| Trail #    | Pulse Width (us) | PRI (us) | Pulses / Burst                                                |
| 1          | 1                | 858      | $\{(\frac{1}{360}) \cdot (\frac{19 \cdot 10^6}{858})\} = 62$  |
| 2          | 1                | 918      | $\{(\frac{1}{360}) \cdot (\frac{19 \cdot 10^6}{918})\} = 58$  |
| 3          | 1                | 518      | $\{(\frac{1}{360}) \cdot (\frac{19 \cdot 10^6}{518})\} = 102$ |
| 4          | 1                | 598      | $\{(\frac{1}{360}) \cdot (\frac{19 \cdot 10^6}{598})\} = 89$  |
| 5          | 1                | 898      | $\{(\frac{1}{360}) \cdot (\frac{19 \cdot 10^6}{898})\} = 59$  |
| 6          | 1                | 678      | $\{(\frac{1}{360}) \cdot (\frac{19 \cdot 10^6}{678})\} = 78$  |
| 7          | 1                | 758      | $\{(\frac{1}{360}) \cdot (\frac{19 \cdot 10^6}{758})\} = 70$  |
| 8          | 1                | 738      | $\{(\frac{1}{360}) \cdot (\frac{19 \cdot 10^6}{738})\} = 72$  |
| 9          | 1                | 558      | $\{(\frac{1}{360}) \cdot (\frac{19 \cdot 10^6}{558})\} = 95$  |
| 10         | 1                | 938      | $\{(\frac{1}{360}) \cdot (\frac{19 \cdot 10^6}{938})\} = 57$  |
| 11         | 1                | 718      | $\{(\frac{1}{360}) \cdot (\frac{19 \cdot 10^6}{718})\} = 74$  |
| 12         | 1                | 778      | $\{(\frac{1}{360}) \cdot (\frac{19 \cdot 10^6}{778})\} = 68$  |
| 13         | 1                | 658      | $\{(\frac{1}{360}) \cdot (\frac{19 \cdot 10^6}{658})\} = 81$  |
| 14         | 1                | 3066     | $\{(\frac{1}{360}) \cdot (\frac{19 \cdot 10^6}{3066})\} = 18$ |
| 15         | 1                | 638      | $\{(\frac{1}{360}) \cdot (\frac{19 \cdot 10^6}{638})\} = 83$  |
| 16         | 1                | 1188     | $\{(\frac{1}{360}) \cdot (\frac{19 \cdot 10^6}{1188})\} = 45$ |
| 17         | 1                | 1813     | $\{(\frac{1}{360}) \cdot (\frac{19 \cdot 10^6}{1813})\} = 30$ |
| 18         | 1                | 2630     | $\{(\frac{1}{360}) \cdot (\frac{19 \cdot 10^6}{2630})\} = 21$ |
| 19         | 1                | 1233     | $\{(\frac{1}{360}) \cdot (\frac{19 \cdot 10^6}{1233})\} = 43$ |

|    |   |      |                                                               |
|----|---|------|---------------------------------------------------------------|
| 20 | 1 | 2154 | $\{(\frac{1}{360}) \cdot (\frac{19 \cdot 10^6}{2154})\} = 25$ |
| 21 | 1 | 2632 | $\{(\frac{1}{360}) \cdot (\frac{19 \cdot 10^6}{2632})\} = 21$ |
| 22 | 1 | 2389 | $\{(\frac{1}{360}) \cdot (\frac{19 \cdot 10^6}{2389})\} = 23$ |
| 23 | 1 | 1140 | $\{(\frac{1}{360}) \cdot (\frac{19 \cdot 10^6}{1140})\} = 47$ |
| 24 | 1 | 1566 | $\{(\frac{1}{360}) \cdot (\frac{19 \cdot 10^6}{1566})\} = 34$ |
| 25 | 1 | 990  | $\{(\frac{1}{360}) \cdot (\frac{19 \cdot 10^6}{990})\} = 54$  |
| 26 | 1 | 854  | $\{(\frac{1}{360}) \cdot (\frac{19 \cdot 10^6}{854})\} = 62$  |
| 27 | 1 | 2116 | $\{(\frac{1}{360}) \cdot (\frac{19 \cdot 10^6}{2116})\} = 25$ |
| 28 | 1 | 2175 | $\{(\frac{1}{360}) \cdot (\frac{19 \cdot 10^6}{2175})\} = 25$ |
| 29 | 1 | 2598 | $\{(\frac{1}{360}) \cdot (\frac{19 \cdot 10^6}{2598})\} = 21$ |
| 30 | 1 | 2834 | $\{(\frac{1}{360}) \cdot (\frac{19 \cdot 10^6}{2834})\} = 19$ |

**Data Sheet for Radar Type 2**

| Radar Type | 2                |          |                |
|------------|------------------|----------|----------------|
| Trail #    | Pulse Width (us) | PRI (us) | Pulses / Burst |
| 1          | 2.6              | 211      | 25             |
| 2          | 1.1              | 160      | 23             |
| 3          | 4.9              | 215      | 29             |
| 4          | 3                | 171      | 26             |
| 5          | 2.6              | 223      | 25             |
| 6          | 3.9              | 181      | 27             |
| 7          | 2.6              | 224      | 25             |
| 8          | 4.8              | 227      | 29             |
| 9          | 2.1              | 184      | 25             |
| 10         | 3.5              | 174      | 27             |
| 11         | 5                | 156      | 29             |
| 12         | 1.3              | 179      | 23             |
| 13         | 3.1              | 186      | 26             |
| 14         | 2.4              | 189      | 25             |
| 15         | 3.8              | 162      | 27             |
| 16         | 2.6              | 150      | 25             |
| 17         | 1.5              | 176      | 23             |
| 18         | 3.8              | 219      | 27             |
| 19         | 1.5              | 197      | 23             |
| 20         | 4.8              | 158      | 29             |
| 21         | 1.3              | 220      | 23             |
| 22         | 2.6              | 169      | 25             |
| 23         | 3.8              | 203      | 27             |
| 24         | 1.4              | 155      | 23             |
| 25         | 2.1              | 207      | 25             |
| 26         | 2.5              | 175      | 25             |
| 27         | 4.5              | 193      | 29             |
| 28         | 4.8              | 192      | 29             |
| 29         | 3.3              | 190      | 26             |
| 30         | 3.1              | 188      | 26             |

**Data Sheet for Radar Type 3**

| Radar Type | 3                |          |                |
|------------|------------------|----------|----------------|
| Trail #    | Pulse Width (us) | PRI (us) | Pulses / Burst |
| 1          | 7.6              | 312      | 17             |
| 2          | 6.1              | 225      | 16             |
| 3          | 9.9              | 280      | 18             |
| 4          | 8                | 427      | 17             |
| 5          | 7.6              | 477      | 17             |
| 6          | 8.9              | 227      | 18             |
| 7          | 7.6              | 444      | 17             |
| 8          | 9.8              | 476      | 18             |
| 9          | 7.1              | 419      | 16             |
| 10         | 8.5              | 313      | 17             |
| 11         | 10               | 486      | 18             |
| 12         | 6.3              | 405      | 16             |
| 13         | 8.1              | 466      | 17             |
| 14         | 7.4              | 394      | 17             |
| 15         | 8.8              | 374      | 18             |
| 16         | 7.6              | 307      | 17             |
| 17         | 6.5              | 335      | 16             |
| 18         | 8.8              | 422      | 18             |
| 19         | 6.5              | 240      | 16             |
| 20         | 9.8              | 203      | 18             |
| 21         | 6.3              | 336      | 16             |
| 22         | 7.6              | 362      | 17             |
| 23         | 8.8              | 460      | 18             |
| 24         | 6.4              | 308      | 16             |
| 25         | 7.1              | 200      | 16             |
| 26         | 7.5              | 206      | 17             |
| 27         | 9.5              | 286      | 18             |
| 28         | 9.8              | 378      | 18             |
| 29         | 8.3              | 324      | 17             |
| 30         | 8.1              | 472      | 17             |

**Data Sheet for Radar Type 4**

| Radar Type | 4                |          |                |
|------------|------------------|----------|----------------|
| Trail #    | Pulse Width (us) | PRI (us) | Pulses / Burst |
| 1          | 14.6             | 312      | 13             |
| 2          | 11.3             | 225      | 12             |
| 3          | 19.7             | 280      | 16             |
| 4          | 15.6             | 427      | 14             |
| 5          | 14.7             | 477      | 14             |
| 6          | 17.4             | 227      | 15             |
| 7          | 14.7             | 444      | 14             |
| 8          | 19.6             | 476      | 16             |
| 9          | 13.6             | 419      | 13             |
| 10         | 16.7             | 313      | 15             |
| 11         | 19.9             | 486      | 16             |
| 12         | 11.8             | 405      | 12             |
| 13         | 15.6             | 466      | 14             |
| 14         | 14.3             | 394      | 13             |
| 15         | 17.3             | 374      | 15             |
| 16         | 14.5             | 307      | 13             |
| 17         | 12.1             | 335      | 12             |
| 18         | 17.2             | 422      | 15             |
| 19         | 12.1             | 240      | 12             |
| 20         | 19.6             | 203      | 16             |
| 21         | 11.8             | 336      | 12             |
| 22         | 14.6             | 362      | 14             |
| 23         | 17.3             | 460      | 15             |
| 24         | 11.9             | 308      | 12             |
| 25         | 13.6             | 200      | 13             |
| 26         | 14.3             | 206      | 13             |
| 27         | 18.9             | 286      | 16             |
| 28         | 19.5             | 378      | 16             |
| 29         | 16.1             | 324      | 14             |
| 30         | 15.8             | 472      | 14             |

**Data Sheet for Radar Type 5**

| Statistical Performance Check Result |                  |                   |                            |            |            |            |
|--------------------------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| Radar Test Signal (#)                |                  | 5                 |                            | Trail #    | 1          |            |
| Burst Offset (us)                    | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
| 591291                               | 70               | 5                 | 2                          | 1208       | 1481       | -          |
| 815216                               | 51.8             | 5                 | 1                          | 1896       | -          | -          |
| 117197                               | 97.9             | 5                 | 3                          | 1255       | 1463       | 1169       |
| 340497                               | 75.4             | 5                 | 2                          | 1776       | 1116       | -          |
| 563700                               | 70.6             | 5                 | 2                          | 1361       | 1483       | -          |
| 786312                               | 85.5             | 5                 | 3                          | 1168       | 1155       | 1192       |
| 89901                                | 70.6             | 5                 | 2                          | 1078       | 1126       | -          |
| 312423                               | 97.5             | 5                 | 3                          | 1237       | 1833       | 1540       |
| 536877                               | 64.5             | 5                 | 1                          | 1698       | -          | -          |
| 759212                               | 81.4             | 5                 | 2                          | 1575       | 1490       | -          |
| 62185                                | 99.2             | 5                 | 3                          | 1350       | 1982       | 1902       |
| 285880                               | 54.7             | 5                 | 1                          | 1722       | -          | -          |
| 508479                               | 75.7             | 5                 | 2                          | 1594       | 1682       | -          |

| Statistical Performance Check Result |                  |                   |                            |            |            |            |
|--------------------------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| Radar Test Signal (#)                |                  | 5                 |                            | Trail #    | 2          |            |
| Burst Offset (us)                    | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
| 1190042                              | 68.2             | 5                 | 2                          | 1790       | 1952       | -          |
| 56652                                | 84.7             | 5                 | 3                          | 1714       | 1515       | 1061       |
| 419783                               | 69.6             | 5                 | 2                          | 1458       | 1500       | -          |
| 783608                               | 56.5             | 5                 | 1                          | 1533       | -          | -          |
| 1144211                              | 84.2             | 5                 | 3                          | 1322       | 1988       | 1910       |
| 11992                                | 56.5             | 5                 | 1                          | 1411       | -          | -          |
| 374471                               | 97.5             | 5                 | 3                          | 1353       | 1981       | 1974       |
| 738925                               | 54.4             | 5                 | 1                          | 1365       | -          | -          |



| Statistical Performance Check Result |                  |                   |                            |            |            |            |
|--------------------------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| Radar Test Signal (#)                |                  | 5                 |                            | Trail #    | 3          |            |
| Burst Offset (us)                    | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
| 439705                               | 70               | 5                 | 2                          | 1001       | 1246       | -          |
| 583092                               | 84.7             | 5                 | 3                          | 1198       | 1120       | 1552       |
| 132117                               | 55.3             | 5                 | 1                          | 1264       | -          | -          |
| 277048                               | 64.5             | 5                 | 1                          | 1871       | -          | -          |
| 421122                               | 68.6             | 5                 | 2                          | 1381       | 1894       | -          |
| 564997                               | 93.7             | 5                 | 3                          | 1306       | 1111       | 1754       |
| 113465                               | 96.8             | 5                 | 3                          | 1996       | 1535       | 1742       |
| 258948                               | 78.3             | 5                 | 2                          | 1239       | 1166       | -          |
| 403936                               | 76.7             | 5                 | 2                          | 1221       | 1107       | -          |
| 545928                               | 86.2             | 5                 | 3                          | 1947       | 1800       | 1806       |
| 96115                                | 72.3             | 5                 | 2                          | 1504       | 1176       | -          |
| 241508                               | 64.6             | 5                 | 1                          | 1382       | -          | -          |
| 384855                               | 95.4             | 5                 | 3                          | 1598       | 1117       | 1511       |
| 528969                               | 85.4             | 5                 | 3                          | 1631       | 1870       | 1152       |
| 78179                                | 73.2             | 5                 | 2                          | 1729       | 1649       | -          |
| 223000                               | 77.7             | 5                 | 2                          | 1815       | 1238       | -          |
| 368464                               | 65.7             | 5                 | 1                          | 1941       | -          | -          |
| 510325                               | 90.2             | 5                 | 3                          | 1899       | 1935       | 1819       |
| 60248                                | 98.9             | 5                 | 3                          | 1194       | 1675       | 1570       |
| 205316                               | 79.6             | 5                 | 2                          | 1245       | 1375       | -          |



| Statistical Performance Check Result |                  |                   |                            |            |            |            |
|--------------------------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| Radar Test Signal (#)                |                  | 5                 |                            | Trail #    | 4          |            |
| Burst Offset (us)                    | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
| 501575                               | 51               | 5                 | 1                          | 1542       | -          | -          |
| 707132                               | 98.7             | 5                 | 3                          | 1613       | 1219       | 1066       |
| 60818                                | 91.5             | 5                 | 3                          | 1072       | 1397       | 1549       |
| 267493                               | 87               | 5                 | 3                          | 1253       | 1748       | 1762       |
| 475767                               | 66.3             | 5                 | 1                          | 1987       | -          | -          |
| 680475                               | 86.6             | 5                 | 3                          | 1785       | 1777       | 1797       |
| 35313                                | 95.2             | 5                 | 3                          | 1482       | 1137       | 1844       |
| 242662                               | 73.5             | 5                 | 2                          | 1059       | 1475       | -          |
| 449288                               | 98               | 5                 | 3                          | 1180       | 1480       | 1096       |
| 657034                               | 74.6             | 5                 | 2                          | 1324       | 1427       | -          |
| 9842                                 | 92.4             | 5                 | 3                          | 1133       | 1753       | 1378       |
| 217141                               | 82               | 5                 | 2                          | 1236       | 1259       | -          |
| 422905                               | 87.8             | 5                 | 3                          | 1803       | 1842       | 1900       |
| 631115                               | 72.9             | 5                 | 2                          | 1559       | 1726       | -          |



| Statistical Performance Check Result |                  |                   |                            |            |            |            |
|--------------------------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| Radar Test Signal (#)                |                  | 5                 |                            | Trail #    | 5          |            |
| Burst Offset (us)                    | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
| 902081                               | 100              | 5                 | 3                          | 1258       | 1396       | 1493       |
| 206352                               | 67.1             | 5                 | 2                          | 1492       | 1179       | -          |
| 429145                               | 92.5             | 5                 | 3                          | 1410       | 1150       | 1042       |
| 653709                               | 60.9             | 5                 | 1                          | 1399       | -          | -          |
| 877441                               | 52               | 5                 | 1                          | 1193       | -          | -          |
| 178469                               | 91.8             | 5                 | 3                          | 1686       | 1403       | 1569       |
| 402251                               | 73.8             | 5                 | 2                          | 1067       | 1218       | -          |
| 625039                               | 69.2             | 5                 | 2                          | 1841       | 1229       | -          |
| 847087                               | 87.9             | 5                 | 3                          | 1073       | 1416       | 1755       |
| 151064                               | 95.2             | 5                 | 3                          | 1197       | 1512       | 1756       |
| 374324                               | 76.8             | 5                 | 2                          | 1437       | 1879       | -          |
| 596338                               | 90.1             | 5                 | 3                          | 1352       | 1925       | 1666       |
| 820999                               | 80.4             | 5                 | 2                          | 1586       | 1132       | -          |



| Statistical Performance Check Result |                  |                   |                            |            |            |            |
|--------------------------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| Radar Test Signal (#)                |                  | 5                 |                            | Trail #    | 6          |            |
| Burst Offset (us)                    | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
| 94587                                | 82.8             | 5                 | 2                          | 1332       | 1689       | -          |
| 265527                               | 61.5             | 5                 | 1                          | 1764       | -          | -          |
| 435227                               | 91.9             | 5                 | 3                          | 1301       | 1024       | 1167       |
| 605381                               | 90.8             | 5                 | 3                          | 1277       | 1091       | 1354       |
| 73476                                | 94               | 5                 | 3                          | 1185       | 1805       | 1109       |
| 244588                               | 57.6             | 5                 | 1                          | 1487       | -          | -          |
| 414781                               | 67.8             | 5                 | 2                          | 1026       | 1554       | -          |
| 586578                               | 53.4             | 5                 | 1                          | 1110       | -          | -          |
| 52576                                | 71.4             | 5                 | 2                          | 1583       | 1653       | -          |
| 222476                               | 93.3             | 5                 | 3                          | 1791       | 1766       | 1296       |
| 393218                               | 68.4             | 5                 | 2                          | 1678       | 1890       | -          |
| 562777                               | 98.2             | 5                 | 3                          | 1510       | 1605       | 1418       |
| 31603                                | 82               | 5                 | 2                          | 1300       | 1523       | -          |
| 201756                               | 98.6             | 5                 | 3                          | 1020       | 1070       | 1990       |
| 372162                               | 73.3             | 5                 | 2                          | 1999       | 1709       | -          |
| 542921                               | 80.3             | 5                 | 2                          | 1205       | 1908       | -          |
| 10620                                | 52               | 5                 | 1                          | 1445       | -          | -          |



| Statistical Performance Check Result |                  |                   |                            |            |            |            |
|--------------------------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| Radar Test Signal (#)                |                  | 5                 |                            | Trail #    | 7          |            |
| Burst Offset (us)                    | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
| 236763                               | 93.9             | 5                 | 3                          | 1325       | 1401       | 1265       |
| 458923                               | 90.3             | 5                 | 3                          | 1962       | 1647       | 1876       |
| 683506                               | 76.8             | 5                 | 2                          | 1499       | 1242       | -          |
| 906848                               | 72.4             | 5                 | 2                          | 1595       | 1013       | -          |
| 209338                               | 85.5             | 5                 | 3                          | 1048       | 1368       | 1438       |
| 433316                               | 56               | 5                 | 1                          | 1646       | -          | -          |
| 654365                               | 85.2             | 5                 | 3                          | 1784       | 1878       | 1389       |
| 880256                               | 54.8             | 5                 | 1                          | 1659       | -          | -          |
| 181618                               | 88.1             | 5                 | 3                          | 1927       | 1928       | 1307       |
| 405781                               | 57.1             | 5                 | 1                          | 1664       | -          | -          |
| 629680                               | 55.8             | 5                 | 1                          | 1039       | -          | -          |
| 852332                               | 81.8             | 5                 | 2                          | 1050       | 1038       | -          |
| 154801                               | 60.7             | 5                 | 1                          | 1557       | -          | -          |



| Statistical Performance Check Result |                  |                   |                            |            |            |            |
|--------------------------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| Radar Test Signal (#)                |                  | 5                 |                            | Trail #    | 8          |            |
| Burst Offset (us)                    | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
| 244340                               | 96.4             | 5                 | 3                          | 1226       | 1572       | 2000       |
| 390950                               | 60.1             | 5                 | 1                          | 1346       | -          | -          |
| 534907                               | 76.3             | 5                 | 2                          | 1441       | 1284       | -          |
| 82690                                | 56.2             | 5                 | 1                          | 1273       | -          | -          |
| 227993                               | 62.4             | 5                 | 1                          | 1031       | -          | -          |
| 372695                               | 62               | 5                 | 1                          | 1940       | -          | -          |
| 517788                               | 56               | 5                 | 1                          | 1889       | -          | -          |
| 64471                                | 83.9             | 5                 | 3                          | 1106       | 1311       | 1930       |
| 209097                               | 98.4             | 5                 | 3                          | 1260       | 1022       | 1606       |
| 354143                               | 74.3             | 5                 | 2                          | 1178       | 1917       | -          |
| 499561                               | 70               | 5                 | 2                          | 1069       | 1249       | -          |
| 46749                                | 69.5             | 5                 | 2                          | 1773       | 1652       | -          |
| 191589                               | 78.6             | 5                 | 2                          | 1347       | 1603       | -          |
| 336486                               | 73.9             | 5                 | 2                          | 1177       | 1608       | -          |
| 481767                               | 74.1             | 5                 | 2                          | 1153       | 1089       | -          |
| 28998                                | 62.7             | 5                 | 1                          | 1944       | -          | -          |
| 173769                               | 70.1             | 5                 | 2                          | 1224       | 1672       | -          |
| 317895                               | 93.3             | 5                 | 3                          | 1217       | 1015       | 1957       |
| 464152                               | 50.5             | 5                 | 1                          | 1929       | -          | -          |
| 11067                                | 89               | 5                 | 3                          | 1945       | 1615       | 1847       |



| Statistical Performance Check Result |                  |                   |                            |            |            |            |
|--------------------------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| Radar Test Signal (#)                |                  | 5                 |                            | Trail #    | 9          |            |
| Burst Offset (us)                    | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
| 283763                               | 85.8             | 5                 | 3                          | 1451       | 1023       | 1821       |
| 548478                               | 51.3             | 5                 | 1                          | 1960       | -          | -          |
| 809743                               | 86.6             | 5                 | 3                          | 1998       | 1989       | 1778       |
| 1077369                              | 63.2             | 5                 | 1                          | 1270       | -          | -          |
| 251895                               | 57.9             | 5                 | 1                          | 1730       | -          | -          |
| 514624                               | 97.4             | 5                 | 3                          | 1488       | 1953       | 1309       |
| 780737                               | 55.4             | 5                 | 1                          | 1002       | -          | -          |
| 1044449                              | 56.6             | 5                 | 1                          | 1654       | -          | -          |
| 218719                               | 86               | 5                 | 3                          | 1683       | 1425       | 1787       |
| 483655                               | 55.9             | 5                 | 1                          | 1417       | -          | -          |
| 747738                               | 50.5             | 5                 | 1                          | 1641       | -          | -          |



| Statistical Performance Check Result |                  |                   |                            |            |            |            |
|--------------------------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| Radar Test Signal (#)                |                  | 5                 |                            | Trail #    | 10         |            |
| Burst Offset (us)                    | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
| 695151                               | 61.9             | 5                 | 1                          | 1713       | -          | -          |
| 128132                               | 71.6             | 5                 | 2                          | 1320       | 1648       | -          |
| 309769                               | 60.6             | 5                 | 1                          | 1862       | -          | -          |
| 489296                               | 97               | 5                 | 3                          | 1244       | 1669       | 1873       |
| 672580                               | 58.2             | 5                 | 1                          | 1954       | -          | -          |
| 105804                               | 71.9             | 5                 | 2                          | 1694       | 1351       | -          |
| 286805                               | 75.7             | 5                 | 2                          | 1869       | 1591       | -          |
| 467329                               | 86.1             | 5                 | 3                          | 1161       | 1266       | 1887       |
| 650589                               | 61.2             | 5                 | 1                          | 1544       | -          | -          |
| 83455                                | 74.3             | 5                 | 2                          | 1934       | 1415       | -          |
| 264701                               | 68.2             | 5                 | 2                          | 1422       | 1478       | -          |
| 444952                               | 95.5             | 5                 | 3                          | 1657       | 1214       | 1610       |
| 628454                               | 65.9             | 5                 | 1                          | 1276       | -          | -          |
| 61315                                | 56.8             | 5                 | 1                          | 1335       | -          | -          |
| 242712                               | 52.9             | 5                 | 1                          | 1881       | -          | -          |
| 424295                               | 56.8             | 5                 | 1                          | 1634       | -          | -          |



| Statistical Performance Check Result |                  |                   |                            |            |            |            |
|--------------------------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| Radar Test Signal (#)                |                  | 5                 |                            | Trail #    | 11         |            |
| Burst Offset (us)                    | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
| 483494                               | 82.2             | 5                 | 2                          | 1691       | 1029       | -          |
| 31130                                | 61.1             | 5                 | 1                          | 1623       | -          | -          |
| 175309                               | 92.1             | 5                 | 3                          | 1303       | 1697       | 1836       |
| 320742                               | 68               | 5                 | 2                          | 1362       | 1450       | -          |
| 466659                               | 63.9             | 5                 | 1                          | 1426       | -          | -          |
| 13250                                | 55.3             | 5                 | 1                          | 1823       | -          | -          |
| 157701                               | 92.9             | 5                 | 3                          | 1232       | 1191       | 1763       |
| 302865                               | 75               | 5                 | 2                          | 1571       | 1312       | -          |
| 446764                               | 95               | 5                 | 3                          | 1254       | 1650       | 1207       |
| 591996                               | 73.6             | 5                 | 2                          | 1550       | 1846       | -          |
| 140621                               | 63               | 5                 | 1                          | 1121       | -          | -          |
| 283899                               | 98.4             | 5                 | 3                          | 1343       | 1977       | 1926       |
| 430680                               | 65.1             | 5                 | 1                          | 1725       | -          | -          |
| 575746                               | 56.5             | 5                 | 1                          | 1761       | -          | -          |
| 122072                               | 99.4             | 5                 | 3                          | 1241       | 1118       | 1973       |
| 266724                               | 98               | 5                 | 3                          | 1588       | 1304       | 1028       |
| 410761                               | 92.5             | 5                 | 3                          | 1484       | 1733       | 1473       |
| 556827                               | 73.8             | 5                 | 2                          | 1574       | 1310       | -          |
| 104794                               | 58               | 5                 | 1                          | 1380       | -          | -          |
| 248823                               | 97.9             | 5                 | 3                          | 1443       | 1326       | 1376       |



| Statistical Performance Check Result |                  |                   |                            |            |            |            |
|--------------------------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| Radar Test Signal (#)                |                  | 5                 |                            | Trail #    | 12         |            |
| Burst Offset (us)                    | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
| 878323                               | 68               | 5                 | 2                          | 1562       | 1223       | -          |
| 1201036                              | 77               | 5                 | 2                          | 1576       | 1195       | -          |
| 193430                               | 65.9             | 5                 | 1                          | 1019       | -          | -          |
| 515373                               | 90.9             | 5                 | 3                          | 1728       | 1142       | 1206       |
| 837168                               | 94.4             | 5                 | 3                          | 1333       | 1997       | 1685       |
| 1162414                              | 57.1             | 5                 | 1                          | 1479       | -          | -          |
| 153280                               | 89.3             | 5                 | 3                          | 1447       | 1536       | 1062       |
| 476708                               | 64.6             | 5                 | 1                          | 1156       | -          | -          |
| 798519                               | 67.6             | 5                 | 2                          | 1975       | 1319       | -          |



| Statistical Performance Check Result |                  |                   |                            |            |            |            |
|--------------------------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| Radar Test Signal (#)                |                  | 5                 |                            | Trail #    | 13         |            |
| Burst Offset (us)                    | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
| 721573                               | 55.9             | 5                 | 1                          | 1087       | -          | -          |
| 72983                                | 70.6             | 5                 | 2                          | 1516       | 1373       | -          |
| 280517                               | 56.4             | 5                 | 1                          | 1822       | -          | -          |
| 488047                               | 54.9             | 5                 | 1                          | 1667       | -          | -          |
| 692783                               | 90.5             | 5                 | 3                          | 1636       | 1670       | 1736       |
| 47463                                | 73.3             | 5                 | 2                          | 1462       | 1435       | -          |
| 253983                               | 95.6             | 5                 | 3                          | 1681       | 1897       | 1538       |
| 460713                               | 94               | 5                 | 3                          | 1555       | 1620       | 1780       |
| 667923                               | 87.9             | 5                 | 3                          | 1140       | 1812       | 1329       |
| 21923                                | 86.7             | 5                 | 3                          | 1095       | 1456       | 1097       |
| 229477                               | 56.6             | 5                 | 1                          | 1581       | -          | -          |
| 436459                               | 78.8             | 5                 | 2                          | 1308       | 1289       | -          |
| 642305                               | 85.7             | 5                 | 3                          | 1299       | 1852       | 1315       |
| 852309                               | 51.9             | 5                 | 1                          | 1250       | -          | -          |



| Statistical Performance Check Result |                  |                   |                            |            |            |            |
|--------------------------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| Radar Test Signal (#)                |                  | 5                 |                            | Trail #    | 14         |            |
| Burst Offset (us)                    | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
| 237287                               | 84.6             | 5                 | 3                          | 1314       | 1508       | 1611       |
| 480167                               | 58.8             | 5                 | 1                          | 1472       | -          | -          |
| 721239                               | 77.4             | 5                 | 2                          | 1092       | 1904       | -          |
| 963224                               | 71               | 5                 | 2                          | 1139       | 1671       | -          |
| 208121                               | 54.6             | 5                 | 1                          | 1673       | -          | -          |
| 449554                               | 74.9             | 5                 | 2                          | 1469       | 1738       | -          |
| 691801                               | 70.3             | 5                 | 2                          | 1233       | 1263       | -          |
| 934484                               | 52.9             | 5                 | 1                          | 1687       | -          | -          |
| 177771                               | 92.1             | 5                 | 3                          | 1433       | 1826       | 1355       |
| 419126                               | 98.9             | 5                 | 3                          | 1915       | 1407       | 1428       |
| 662911                               | 55.1             | 5                 | 1                          | 1125       | -          | -          |
| 902272                               | 88.9             | 5                 | 3                          | 1635       | 1045       | 1643       |



| Statistical Performance Check Result |                  |                   |                            |            |            |            |
|--------------------------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| Radar Test Signal (#)                |                  | 5                 |                            | Trail #    | 15         |            |
| Burst Offset (us)                    | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
| 104782                               | 55.1             | 5                 | 1                          | 1331       | -          | -          |
| 274485                               | 95.2             | 5                 | 3                          | 1288       | 1262       | 1779       |
| 446644                               | 51.1             | 5                 | 1                          | 1157       | -          | -          |
| 615134                               | 73.6             | 5                 | 2                          | 1965       | 1963       | -          |
| 83697                                | 56.7             | 5                 | 1                          | 1637       | -          | -          |
| 254526                               | 66               | 5                 | 1                          | 1563       | -          | -          |
| 424104                               | 78.2             | 5                 | 2                          | 1872       | 1746       | -          |
| 596368                               | 57.3             | 5                 | 1                          | 1323       | -          | -          |
| 62396                                | 89.1             | 5                 | 3                          | 1882       | 1328       | 1370       |
| 233528                               | 53               | 5                 | 1                          | 1432       | -          | -          |
| 404155                               | 56.6             | 5                 | 1                          | 1824       | -          | -          |
| 572746                               | 93.4             | 5                 | 3                          | 1699       | 1269       | 1507       |
| 41534                                | 74.7             | 5                 | 2                          | 1498       | 1593       | -          |
| 211866                               | 83.3             | 5                 | 2                          | 1585       | 1892       | -          |
| 383319                               | 53.8             | 5                 | 1                          | 1460       | -          | -          |
| 553954                               | 53.9             | 5                 | 1                          | 1727       | -          | -          |
| 20589                                | 54.5             | 5                 | 1                          | 1356       | -          | -          |

| Statistical Performance Check Result |                  |                   |                            |            |            |            |
|--------------------------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| Radar Test Signal (#)                |                  | 5                 |                            | Trail #    | 16         |            |
| Burst Offset (us)                    | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
| 249549                               | 87.2             | 5                 | 3                          | 1529       | 1868       | 1392       |
| 473814                               | 51.3             | 5                 | 1                          | 1772       | -          | -          |
| 696747                               | 69.1             | 5                 | 2                          | 1145       | 1305       | -          |
| 919852                               | 82.3             | 5                 | 2                          | 1614       | 1012       | -          |
| 222458                               | 75               | 5                 | 2                          | 1477       | 1898       | -          |
| 445510                               | 81.4             | 5                 | 2                          | 1625       | 1760       | -          |
| 669234                               | 82               | 5                 | 2                          | 1290       | 1173       | -          |
| 891674                               | 66.9             | 5                 | 2                          | 1526       | 1801       | -          |
| 194770                               | 86.2             | 5                 | 3                          | 1172       | 1980       | 1227       |
| 417571                               | 84.6             | 5                 | 3                          | 1932       | 1394       | 1079       |
| 640275                               | 89.8             | 5                 | 3                          | 1601       | 1071       | 1880       |
| 862582                               | 97.4             | 5                 | 3                          | 1985       | 1745       | 1316       |
| 167886                               | 52.9             | 5                 | 1                          | 1294       | -          | -          |

| Statistical Performance Check Result |                  |                   |                            |            |            |            |
|--------------------------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| Radar Test Signal (#)                |                  | 5                 |                            | Trail #    | 17         |            |
| Burst Offset (us)                    | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
| 564844                               | 78.5             | 5                 | 2                          | 1406       | 1829       | -          |
| 888379                               | 57.6             | 5                 | 1                          | 1820       | -          | -          |
| 1208797                              | 99.8             | 5                 | 3                          | 1248       | 1692       | 1645       |
| 202812                               | 51.5             | 5                 | 1                          | 1298       | -          | -          |
| 525477                               | 68.1             | 5                 | 2                          | 1088       | 1213       | -          |
| 848768                               | 50.3             | 5                 | 1                          | 1558       | -          | -          |
| 1169382                              | 92.8             | 5                 | 3                          | 1580       | 1573       | 1114       |
| 162951                               | 64.2             | 5                 | 1                          | 1854       | -          | -          |
| 485678                               | 79.9             | 5                 | 2                          | 1011       | 1387       | -          |



| Statistical Performance Check Result |                  |                   |                            |            |            |            |
|--------------------------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| Radar Test Signal (#)                |                  | 5                 |                            | Trail #    | 18         |            |
| Burst Offset (us)                    | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
| 452762                               | 90.6             | 5                 | 3                          | 1885       | 1390       | 1371       |
| 636546                               | 50.5             | 5                 | 1                          | 1103       | -          | -          |
| 69136                                | 78.3             | 5                 | 2                          | 1485       | 1175       | -          |
| 250688                               | 62.9             | 5                 | 1                          | 1768       | -          | -          |
| 431876                               | 81.6             | 5                 | 2                          | 1211       | 1044       | -          |
| 613696                               | 52.2             | 5                 | 1                          | 1684       | -          | -          |
| 46710                                | 84               | 5                 | 3                          | 1704       | 1338       | 1209       |
| 227355                               | 96.3             | 5                 | 3                          | 1920       | 1674       | 1384       |
| 409287                               | 71.3             | 5                 | 2                          | 1292       | 1421       | -          |
| 590397                               | 71.1             | 5                 | 2                          | 1818       | 1060       | -          |
| 24536                                | 66.3             | 5                 | 1                          | 1055       | -          | -          |
| 205244                               | 98.5             | 5                 | 3                          | 1712       | 1448       | 1291       |
| 387827                               | 54.9             | 5                 | 1                          | 1043       | -          | -          |
| 566988                               | 97.5             | 5                 | 3                          | 1749       | 1158       | 1404       |
| 2150                                 | 86.1             | 5                 | 3                          | 1607       | 1867       | 1436       |
| 183641                               | 56.5             | 5                 | 1                          | 1721       | -          | -          |

| Statistical Performance Check Result |                  |                   |                            |            |            |            |
|--------------------------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| Radar Test Signal (#)                |                  | 5                 |                            | Trail #    | 19         |            |
| Burst Offset (us)                    | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
| 649004                               | 80.2             | 5                 | 2                          | 1476       | 1792       | -          |
| 972632                               | 63.8             | 5                 | 1                          | 1837       | -          | -          |
| 1294265                              | 69.1             | 5                 | 2                          | 1455       | 1715       | -          |
| 287125                               | 56.7             | 5                 | 1                          | 1234       | -          | -          |
| 609502                               | 70.5             | 5                 | 2                          | 1127       | 1633       | -          |
| 931751                               | 81.5             | 5                 | 2                          | 1629       | 1783       | -          |
| 1253215                              | 88.5             | 5                 | 3                          | 1147       | 1810       | 1604       |
| 247305                               | 60               | 5                 | 1                          | 1363       | -          | -          |
| 568977                               | 86.1             | 5                 | 3                          | 1212       | 1662       | 1696       |



| Statistical Performance Check Result |                  |                   |                            |            |            |            |
|--------------------------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| Radar Test Signal (#)                |                  | 5                 |                            | Trail #    | 20         |            |
| Burst Offset (us)                    | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
| 400523                               | 74.5             | 5                 | 2                          | 1775       | 1082       | -          |
| 544232                               | 99.1             | 5                 | 3                          | 1564       | 1074       | 1442       |
| 92772                                | 93.7             | 5                 | 3                          | 1995       | 1235       | 1293       |
| 238062                               | 73.1             | 5                 | 2                          | 1006       | 1337       | -          |
| 383830                               | 65.2             | 5                 | 1                          | 1068       | -          | -          |
| 529131                               | 53.4             | 5                 | 1                          | 1021       | -          | -          |
| 75357                                | 61.2             | 5                 | 1                          | 1553       | -          | -          |
| 219129                               | 90.3             | 5                 | 3                          | 1807       | 1912       | 1551       |
| 365634                               | 57.2             | 5                 | 1                          | 1565       | -          | -          |
| 510479                               | 60.8             | 5                 | 1                          | 1909       | -          | -          |
| 57360                                | 68.5             | 5                 | 2                          | 1626       | 1163       | -          |
| 202693                               | 54               | 5                 | 1                          | 1340       | -          | -          |
| 347847                               | 62.1             | 5                 | 1                          | 1408       | -          | -          |
| 490344                               | 99.8             | 5                 | 3                          | 1556       | 1877       | 1230       |
| 39483                                | 79.7             | 5                 | 2                          | 1701       | 1622       | -          |
| 184461                               | 82.9             | 5                 | 2                          | 1302       | 1164       | -          |
| 328025                               | 89.9             | 5                 | 3                          | 1520       | 1638       | 1769       |
| 475199                               | 63.2             | 5                 | 1                          | 1336       | -          | -          |
| 21678                                | 68.6             | 5                 | 2                          | 1502       | 1256       | -          |
| 166512                               | 81               | 5                 | 2                          | 1398       | 1420       | -          |



| Statistical Performance Check Result |                  |                   |                            |            |            |            |
|--------------------------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| Radar Test Signal (#)                |                  | 5                 |                            | Trail #    | 21         |            |
| Burst Offset (us)                    | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
| 694608                               | 54.5             | 5                 | 1                          | 1034       | -          | -          |
| 1016456                              | 73.6             | 5                 | 2                          | 1590       | 1115       | -          |
| 8551                                 | 60.1             | 5                 | 1                          | 1933       | -          | -          |
| 331564                               | 63.7             | 5                 | 1                          | 1505       | -          | -          |
| 653496                               | 95.1             | 5                 | 3                          | 1405       | 1075       | 1220       |
| 975332                               | 88               | 5                 | 3                          | 1628       | 1744       | 1202       |
| 1297079                              | 86.6             | 5                 | 3                          | 1271       | 1914       | 1921       |
| 291425                               | 73.6             | 5                 | 2                          | 1188       | 1924       | -          |
| 614597                               | 57.5             | 5                 | 1                          | 1916       | -          | -          |



| Statistical Performance Check Result |                  |                   |                            |            |            |            |
|--------------------------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| Radar Test Signal (#)                |                  | 5                 |                            | Trail #    | 22         |            |
| Burst Offset (us)                    | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
| 648947                               | 59.4             | 5                 | 1                          | 1464       | -          | -          |
| 872834                               | 59.1             | 5                 | 1                          | 1077       | -          | -          |
| 174442                               | 62               | 5                 | 1                          | 1104       | -          | -          |
| 397033                               | 68.2             | 5                 | 2                          | 1747       | 1711       | -          |
| 619847                               | 76.8             | 5                 | 2                          | 1972       | 1816       | -          |
| 844713                               | 57               | 5                 | 1                          | 1706       | -          | -          |
| 146857                               | 53.2             | 5                 | 1                          | 1367       | -          | -          |
| 369203                               | 90.4             | 5                 | 3                          | 1731       | 1446       | 1170       |
| 592949                               | 73.2             | 5                 | 2                          | 1201       | 1710       | -          |
| 817479                               | 56.1             | 5                 | 1                          | 1377       | -          | -          |
| 119201                               | 67.7             | 5                 | 2                          | 1130       | 1171       | -          |
| 342999                               | 55.1             | 5                 | 1                          | 1007       | -          | -          |
| 566579                               | 58.1             | 5                 | 1                          | 1090       | -          | -          |



| Statistical Performance Check Result |                  |                   |                            |            |            |            |
|--------------------------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| Radar Test Signal (#)                |                  | 5                 |                            | Trail #    | 23         |            |
| Burst Offset (us)                    | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
| 601322                               | 97.7             | 5                 | 3                          | 1345       | 1186       | 1735       |
| 69798                                | 86.6             | 5                 | 3                          | 1578       | 1884       | 1521       |
| 240236                               | 67.6             | 5                 | 2                          | 1861       | 1813       | -          |
| 411573                               | 52.4             | 5                 | 1                          | 1913       | -          | -          |
| 581299                               | 68               | 5                 | 2                          | 1719       | 1414       | -          |
| 49079                                | 64               | 5                 | 1                          | 1828       | -          | -          |
| 218917                               | 89.4             | 5                 | 3                          | 1765       | 1548       | 1453       |
| 389991                               | 73.8             | 5                 | 2                          | 1690       | 1216       | -          |
| 560724                               | 80.6             | 5                 | 2                          | 1327       | 1280       | -          |
| 27969                                | 68.2             | 5                 | 2                          | 1893       | 1857       | -          |
| 198477                               | 69.9             | 5                 | 2                          | 1474       | 1501       | -          |
| 368635                               | 79               | 5                 | 2                          | 1619       | 1964       | -          |
| 539754                               | 81.5             | 5                 | 2                          | 1395       | 1160       | -          |
| 7017                                 | 50.9             | 5                 | 1                          | 1366       | -          | -          |
| 177018                               | 88.9             | 5                 | 3                          | 1080       | 1978       | 1740       |
| 347849                               | 80               | 5                 | 2                          | 1339       | 1850       | -          |
| 518155                               | 78.1             | 5                 | 2                          | 1503       | 1848       | -          |



| Statistical Performance Check Result |                  |                   |                            |            |            |            |
|--------------------------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| Radar Test Signal (#)                |                  | 5                 |                            | Trail #    | 24         |            |
| Burst Offset (us)                    | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
| 1303061                              | 77.3             | 5                 | 2                          | 1858       | 1937       | -          |
| 296120                               | 66.9             | 5                 | 2                          | 1452       | 1703       | -          |
| 618053                               | 87.6             | 5                 | 3                          | 1461       | 1679       | 1471       |
| 941705                               | 82.8             | 5                 | 2                          | 1058       | 1582       | -          |
| 1262467                              | 97.9             | 5                 | 3                          | 1561       | 1786       | 1369       |
| 256754                               | 51.6             | 5                 | 1                          | 1225       | -          | -          |
| 579778                               | 56.4             | 5                 | 1                          | 1349       | -          | -          |
| 900681                               | 85.8             | 5                 | 3                          | 1708       | 1025       | 1781       |
| 1223080                              | 85.3             | 5                 | 3                          | 1357       | 1971       | 1057       |



| Statistical Performance Check Result |                  |                   |                            |            |            |            |
|--------------------------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| Radar Test Signal (#)                |                  | 5                 |                            | Trail #    | 25         |            |
| Burst Offset (us)                    | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
| 177128                               | 92.7             | 5                 | 3                          | 1040       | 1064       | 1252       |
| 441120                               | 76.5             | 5                 | 2                          | 1567       | 1231       | -          |
| 703834                               | 92.6             | 5                 | 3                          | 1739       | 1434       | 1457       |
| 968288                               | 66.7             | 5                 | 2                          | 1774       | 1737       | -          |
| 144880                               | 57.1             | 5                 | 1                          | 1532       | -          | -          |
| 408948                               | 50.9             | 5                 | 1                          | 1907       | -          | -          |
| 672738                               | 75.9             | 5                 | 2                          | 1054       | 1383       | -          |
| 935219                               | 96.5             | 5                 | 3                          | 1802       | 1341       | 1046       |
| 112148                               | 75.9             | 5                 | 2                          | 1951       | 1400       | -          |
| 376130                               | 73.5             | 5                 | 2                          | 1053       | 1677       | -          |
| 638910                               | 96.2             | 5                 | 3                          | 1531       | 1865       | 1268       |



| Statistical Performance Check Result |                  |                   |                            |            |            |            |
|--------------------------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| Radar Test Signal (#)                |                  | 5                 |                            | Trail #    | 26         |            |
| Burst Offset (us)                    | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
| 826712                               | 92.6             | 5                 | 3                          | 1834       | 1000       | 1983       |
| 72998                                | 69.9             | 5                 | 2                          | 1849       | 1518       | -          |
| 314688                               | 72.5             | 5                 | 2                          | 1489       | 1958       | -          |
| 555527                               | 84.2             | 5                 | 3                          | 1831       | 1182       | 1967       |
| 797115                               | 83.8             | 5                 | 3                          | 1843       | 1348       | 1459       |
| 43224                                | 78.8             | 5                 | 2                          | 1412       | 1979       | -          |
| 284734                               | 91               | 5                 | 3                          | 1295       | 1086       | 1705       |
| 526386                               | 92.2             | 5                 | 3                          | 1003       | 1723       | 1148       |
| 767431                               | 89.3             | 5                 | 3                          | 1660       | 1724       | 1200       |
| 13435                                | 95.4             | 5                 | 3                          | 1439       | 1190       | 1942       |
| 255680                               | 56.1             | 5                 | 1                          | 1358       | -          | -          |
| 497683                               | 64.3             | 5                 | 1                          | 1759       | -          | -          |

| Statistical Performance Check Result |                  |                   |                            |            |            |            |
|--------------------------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| Radar Test Signal (#)                |                  | 5                 |                            | Trail #    | 27         |            |
| Burst Offset (us)                    | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
| 466662                               | 60.4             | 5                 | 1                          | 1883       | -          | -          |
| 616742                               | 95.2             | 5                 | 3                          | 1991       | 1243       | 1334       |
| 142355                               | 78.8             | 5                 | 2                          | 1016       | 1100       | -          |
| 295519                               | 50.7             | 5                 | 1                          | 1051       | -          | -          |
| 446771                               | 67.6             | 5                 | 2                          | 1527       | 1874       | -          |
| 599225                               | 75.4             | 5                 | 2                          | 1809       | 1486       | -          |
| 123039                               | 99.9             | 5                 | 3                          | 1010       | 1970       | 1741       |
| 275129                               | 85               | 5                 | 3                          | 1330       | 1318       | 1943       |
| 428981                               | 61.1             | 5                 | 1                          | 1968       | -          | -          |
| 580996                               | 66.7             | 5                 | 2                          | 1644       | 1065       | -          |
| 104670                               | 82.7             | 5                 | 2                          | 1313       | 1261       | -          |
| 257432                               | 71.4             | 5                 | 2                          | 1027       | 1037       | -          |
| 410696                               | 62.9             | 5                 | 1                          | 1162       | -          | -          |
| 561441                               | 81.3             | 5                 | 2                          | 1939       | 1630       | -          |
| 86077                                | 63.9             | 5                 | 1                          | 1122       | -          | -          |
| 239011                               | 61.1             | 5                 | 1                          | 1047       | -          | -          |
| 390966                               | 68.9             | 5                 | 2                          | 1204       | 1402       | -          |
| 544078                               | 53.1             | 5                 | 1                          | 1950       | -          | -          |
| 66876                                | 85.1             | 5                 | 3                          | 1468       | 1129       | 1959       |



| Statistical Performance Check Result |                  |                   |                            |            |            |            |
|--------------------------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| Radar Test Signal (#)                |                  | 5                 |                            | Trail #    | 28         |            |
| Burst Offset (us)                    | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
| 208292                               | 75.1             | 5                 | 2                          | 1577       | 1919       | -          |
| 354271                               | 65.3             | 5                 | 1                          | 1286       | -          | -          |
| 495997                               | 83.9             | 5                 | 3                          | 1955       | 1534       | 1969       |
| 45716                                | 85.5             | 5                 | 3                          | 1624       | 1587       | 1386       |
| 191235                               | 57.3             | 5                 | 1                          | 1105       | -          | -          |
| 334080                               | 94.4             | 5                 | 3                          | 1901       | 1992       | 1495       |
| 481017                               | 53.3             | 5                 | 1                          | 2000       | -          | -          |
| 27921                                | 99               | 5                 | 3                          | 1379       | 1789       | 1592       |
| 172578                               | 69.1             | 5                 | 2                          | 1922       | 1830       | -          |
| 318204                               | 60.7             | 5                 | 1                          | 1839       | -          | -          |
| 463599                               | 64.3             | 5                 | 1                          | 1423       | -          | -          |
| 10138                                | 96.6             | 5                 | 3                          | 1680       | 1440       | 1702       |
| 154700                               | 90               | 5                 | 3                          | 1798       | 1009       | 1196       |
| 298982                               | 86.6             | 5                 | 3                          | 1413       | 1524       | 1596       |
| 445818                               | 62.1             | 5                 | 1                          | 1287       | -          | -          |
| 589319                               | 82.1             | 5                 | 2                          | 1159       | 1856       | -          |
| 137185                               | 71.5             | 5                 | 2                          | 1621       | 1119       | -          |
| 281563                               | 78.3             | 5                 | 2                          | 1888       | 1860       | -          |
| 427881                               | 50.1             | 5                 | 1                          | 1359       | -          | -          |
| 572624                               | 58.3             | 5                 | 1                          | 1825       | -          | -          |



| Statistical Performance Check Result |                  |                   |                            |            |            |            |
|--------------------------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| Radar Test Signal (#)                |                  | 5                 |                            | Trail #    | 29         |            |
| Burst Offset (us)                    | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
| 159228                               | 71               | 5                 | 2                          | 1700       | 1429       | -          |
| 352518                               | 76               | 5                 | 2                          | 1895       | 1181       | -          |
| 544323                               | 88.6             | 5                 | 3                          | 1364       | 1961       | 1903       |
| 737838                               | 85               | 5                 | 3                          | 1757       | 1281       | 1372       |
| 135567                               | 75.8             | 5                 | 2                          | 1099       | 1174       | -          |
| 328212                               | 87.2             | 5                 | 3                          | 1285       | 1014       | 1984       |
| 522698                               | 51.1             | 5                 | 1                          | 1994       | -          | -          |
| 715290                               | 71.3             | 5                 | 2                          | 1525       | 1528       | -          |
| 111884                               | 52.4             | 5                 | 1                          | 1210       | -          | -          |
| 305327                               | 64.8             | 5                 | 1                          | 1966       | -          | -          |
| 497761                               | 79.9             | 5                 | 2                          | 1938       | 1811       | -          |
| 691696                               | 73.2             | 5                 | 2                          | 1661       | 1143       | -          |
| 87610                                | 86.1             | 5                 | 3                          | 1993       | 1282       | 1665       |
| 281813                               | 60.2             | 5                 | 1                          | 1041       | -          | -          |
| 474637                               | 81.1             | 5                 | 2                          | 1617       | 1017       | -          |



| Statistical Performance Check Result |                  |                   |                            |            |            |            |
|--------------------------------------|------------------|-------------------|----------------------------|------------|------------|------------|
| Radar Test Signal (#)                |                  | 5                 |                            | Trail #    | 30         |            |
| Burst Offset (us)                    | Pulse Width (us) | Chirp Width (MHz) | Number of Pulses per Burst | PRI-1 (us) | PRI-2 (us) | PRI-3 (us) |
| 713761                               | 99.1             | 5                 | 3                          | 1466       | 1853       | 1864       |
| 68606                                | 76.6             | 5                 | 2                          | 1948       | 1018       | -          |
| 276396                               | 59.6             | 5                 | 1                          | 1030       | -          | -          |
| 482744                               | 71.4             | 5                 | 2                          | 1513       | 1793       | -          |
| 691089                               | 56.4             | 5                 | 1                          | 1743       | -          | -          |
| 43150                                | 64.2             | 5                 | 1                          | 1752       | -          | -          |
| 250293                               | 76.4             | 5                 | 2                          | 1251       | 1579       | -          |
| 457068                               | 80.8             | 5                 | 2                          | 1838       | 1782       | -          |
| 665070                               | 74.2             | 5                 | 2                          | 1093       | 1247       | -          |
| 17534                                | 96.8             | 5                 | 3                          | 1855       | 1771       | 1135       |
| 224742                               | 70.1             | 5                 | 2                          | 1658       | 1283       | -          |
| 430908                               | 92.7             | 5                 | 3                          | 1618       | 1514       | 1795       |
| 638128                               | 84.8             | 5                 | 3                          | 1430       | 1279       | 1509       |
| 847663                               | 50.7             | 5                 | 1                          | 1519       | -          | -          |

**Data Sheet for Radar Type 6**

| Radar Type           | 6    |      |      |      |      |
|----------------------|------|------|------|------|------|
| Frequency List (MHz) | 0    | 1    | 2    | 3    | 4    |
| 0                    | 5533 | 5351 | 5644 | 5590 | 5360 |
| 5                    | 5512 | 5492 | 5261 | 5335 | 5616 |
| 10                   | 5520 | 5376 | 5256 | 5614 | 5601 |
| 15                   | 5559 | 5471 | 5628 | 5711 | 5632 |
| 20                   | 5721 | 5574 | 5653 | 5569 | 5317 |
| 25                   | 5434 | 5406 | 5382 | 5511 | 5557 |
| 30                   | 5428 | 5314 | 5484 | 5508 | 5555 |
| 35                   | 5506 | 5578 | 5722 | 5680 | 5324 |
| 40                   | 5579 | 5635 | 5333 | 5474 | 5540 |
| 45                   | 5402 | 5453 | 5522 | 5550 | 5667 |
| 50                   | 5689 | 5322 | 5716 | 5306 | 5325 |
| 55                   | 5523 | 5651 | 5457 | 5475 | 5600 |
| 60                   | 5535 | 5456 | 5714 | 5570 | 5345 |
| 65                   | 5328 | 5571 | 5295 | 5259 | 5303 |
| 70                   | 5336 | 5588 | 5526 | 5417 | 5379 |
| 75                   | 5673 | 5654 | 5257 | 5583 | 5447 |
| 80                   | 5509 | 5517 | 5596 | 5449 | 5279 |
| 85                   | 5372 | 5507 | 5458 | 5286 | 5334 |
| 90                   | 5355 | 5399 | 5358 | 5444 | 5326 |
| 95                   | 5719 | 5269 | 5630 | 5443 | 5341 |



## 4 Test Equipment and Calibration Data

| Instrument              | Manufacturer | Model No. | Serial No.     | Characteristics | Calibration Last Cal. | Calibration Due Date |
|-------------------------|--------------|-----------|----------------|-----------------|-----------------------|----------------------|
| Spectrum Analyzer       | Keysight     | N9010A    | MY5515016<br>5 | 9kHz~7GHz       | Nov. 03, 2015         | Nov. 02, 2016        |
| Vector Signal Generator | Keysight     | N5182B    | MY5305124<br>0 | 9kHz ~ 6GHz     | Nov. 02, 2015         | Nov. 01, 2016        |
| Horn Antenna            | COM-POWER    | AH-118    | 10091          | 1GHz ~ 18GHz    | Apr. 14, 2016         | Apr. 13, 2017        |
| Horn Antenna            | COM-POWER    | AH-118    | 711064         | 1GHz ~ 18GHz    | Nov. 14, 2015         | Nov. 13, 2016        |