

| _  |   | <b>2K-APL260B3</b><br>e): □Original Grant ⊠Class II Change                               |
|--|---|--|
| Project No.<br>Equipment<br>Model Name<br>Applicant<br>Address | : 1410101C<br>: Access Poir<br>: APL26-0B3<br>: Dell Inc.<br>: One Dell W<br>States | nt<br>ay Round Rock, Texas 78682 United  |
| Date of Receipt<br>Date of Test<br>Issued Date<br>Tested by    | : Nov. 06, 20<br>: Nov. 25, 20  | 15 ~ Nov. 24, 2015   |
| Testing Enginee<br>Technical Manag                             |   | : Josh Lin)<br>: Josh Lin)   |
| Authorized Sign  | atory   | (Jeff Yahg)<br>:(Andy Chiu)  |
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#### Declaration

**BTL** represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C.**, or National Institute of Standards and Technology (**NIST**) of **U.S.A.** 

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**BTL**'s laboratory quality assurance procedures are in compliance with the **ISO Guide17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

#### Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

|  | -             |
|--|---------------|
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## **REPORT ISSUED HISTORY**

| Issued No.          | Description  | Issued Date   |
|---------------------|--|---------------|
| BTL-FCCP-2-1410101A | Original Report.   | Mar. 20, 2015 |
| BTL-FCCP-1-1410101C | Compared with previous report<br>(BTL-FCCP-2-1410101A),<br>The standards are updated to the latest .All test<br>item has been retested and recored in this report. | Nov. 25, 2015 |



## **1. CERTIFICATION**

| Brand Name<br>Model Name<br>Applicant<br>Date of Test: | : APL26-0B3<br>: Dell Inc.<br>: Nov. 06, 2015 ~ Nov. 24, 2015<br>: Enginnering Sample |
|--|---|
|  | FCC KDB 789033 D02 General UNII Test Procedures New Rules v01                         |
|  | 905462 D02 UNII DFS Compliance Procedures New Rules v01r02                            |

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-1-1410101C) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

Test result included in this report is only for the DFS Mode part of the product.



## **2. EUT INFORMATION**

### 2.1 EUT SPECIFICATION TABLE

Table 1: Specification of EUT

| Product name             | Access Point              |
|--------------------------|---------------------------|
| Brand Name               | DELL                      |
| Model                    | APL26-0B3                 |
| Operational Mode         | Master                    |
| Operating FrequencyRange | 5260~5320MHz&5500~5700MHz |
| Modulation               | OFDM                      |

Note: This device was functioned as a Master Slave device during the DF

#### 2.2 DESCRIPTION OF AVAILABLE ANTENNAS TO THE EUT

Antenna Specification:

| Ant. | Brand  | Part NO.     | Antenna Type | Connector    | Gain<br>(dBi) | Note  |
|------|--------|--------------|--------------|--------------|---------------|-------|
| 4    | M.gear | C147-510905B | Dipole       | Reversed TNC | 5.89          | TX/RX |
| 5    | M.gear | C147-510905B | Dipole       | Reversed TNC | 5.89          | TX/RX |
| 6    | M.gear | C147-510905B | Dipole       | Reversed TNC | 5.89          | TX/RX |

Note:

1. 1. The EUT incorporates a MIMO function. Physically, the EUT provides three completed transmitters and receivers (3T3R). All transmit signals are completely uncorrelated, then, Direction gain =  $G_{ANT}$ , that is Directional gain=5.89



### 2.3 CONDUCTED OUTPUT POWER AND EIRP POWER

#### TABLE 3: THE CONDUCTED OUTPUT POWER LIST

## TX (11a)

| FREQUENCY  | MAX. POWER        |                  |  |  |
|------------|-------------------|------------------|--|--|
| BAND (MHz) | OUTPUT POWER(dBm) | OUTPUT POWER(mW) |  |  |
| 5260~5320  | 18.86             | 76.91            |  |  |
| 5500~5700  | 19.14             | 82.04            |  |  |

## TX (11n 40MHz)

| FREQUENCY  | REQUENCY MAX. POWER |                  |  |
|------------|---------------------|------------------|--|
| BAND (MHz) | OUTPUT POWER(dBm)   | OUTPUT POWER(mW) |  |
| 5270~5310  | 19.25               | 84.14            |  |
| 5510~5670  | 19.56               | 90.36            |  |

### 2.4 EUT MAXIMUM AND MINIMUM E.I.R.P. POWER

## TABLE 4: THE MAX EIRP LIST

TX (11a)

| FREQUENCY  | Y MAX. POWER      |                  |  |
|------------|-------------------|------------------|--|
| BAND (MHz) | OUTPUT POWER(dBm) | OUTPUT POWER(mW) |  |
| 5260~5320  | 24.75             | 298.54           |  |
| 5500~5700  | 25.03             | 318.42           |  |

## TX (11n40MHz)

| FREQUENCY  | MAX. POWER        |                  |  |
|------------|-------------------|------------------|--|
| BAND (MHz) | OUTPUT POWER(dBm) | OUTPUT POWER(mW) |  |
| 5270~5310  | 25.14             | 326.59           |  |
| 5510~5670  | 25.45             | 350.75           |  |



## 3.U-NII DFS RULE REQUIREMENTS

#### 3.1 WORKING MODES AND REQUIRED TEST ITEMS

The manufacturer shall state whether the UUT is capable of operating as a Master and/or a Client. If the UUT is capable of operating in more than one operating mode then each operating mode shall be tested separately. See tables 1 and 2 for the applicability of DFS requirements for each of the operational modes.

Table 5: Applicability of DFS requirements prior to use a channel

| Operational Mode |                                |  |  |
|------------------|--------------------------------|--|--|
| Master           | Client without radar detection | Client with radar<br>detection   |  |
| ~                | Not required                   | ~  |  |
| $\checkmark$     | Not required                   | $\checkmark$   |  |
| $\checkmark$     | Not required                   | Not required   |  |
| $\checkmark$     | Not required                   | Not required   |  |
| ~                | Not required                   | ~  |  |
|                  | ✓<br>✓<br>✓<br>✓<br>✓          | Master       Client without radar detection         ✓       Not required         ✓       Not required         ✓       Not required         ✓       Not required         ✓       Not required |  |

Table 6: Applicability of DFS requirements during normal operation.

|                                      | Operational Mode |                                |                             |  |
|--------------------------------------|------------------|--------------------------------|-----------------------------|--|
| Requirement                          | Master           | Client without radar detection | Client with radar detection |  |
| DFS Detection Threshold              | ~                | Not required                   | ✓                           |  |
| Channel Closing Transmission<br>Time | ~                | ~                              | ~                           |  |
| Channel Move Time                    | $\checkmark$     | $\checkmark$                   | ✓                           |  |
| U-NII Detection Bandwidth            | ~                | Not required                   | ✓                           |  |



#### 3.2 TEST LIMITS AND RADAR SIGNAL PARAMETERS

#### **DETECTION THRESHOLD VALUES**

Table 7: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection.

| Maximum Transmit Power  | Value<br>(See Notes 1 and 2) |
|---|------------------------------|
| EIRP≥ 200 mil iwatt   | -64 dBm                      |
| EIRP < 200 milliwatt and<br>power spectral density < 10 dBm/MHz                 | -62 dBm                      |
| EIRP < 200 milliwatt that do not meet the<br>power spectral density requirement | -64 dBm                      |

**Note 1:** This is the level at the input of the receiver assuming a 0 dBi receive antenna.

**Note 2:** Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

**Note3:** EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.



| 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<br>milliseconds over remaining 10 second<br>period. See Notes 1 and 2. |
| U-NII Detection Bandwidth         | Minimum 100% of the UNII<br>99% transmission power bandwidth. See<br>Note 3.                                 |

#### Table 8: DFS Response Requirement Values

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

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

**Note 3:** During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.



#### PARAMETERS OF DFS TEST SIGNALS

Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

| Radar     | Pulse        | PRI                 | Number of Pulses  | Minimum       | Minimum  |
|-----------|--------------|---------------------|---|---------------|----------|
| Туре      | Width        | (µsec)              |   | Percentage of | Number   |
|           | (µsec)       |                     |   | Successful    | of       |
|           |              |                     |   | Detection     | Trials   |
| 0         | 1            | 1428                | 18  | See Note 1    | See Note |
|           |              |                     |   |               | 1        |
| 1         | 1            | Test A: 15 unique   | $\left( \left( 1 \right) \right)$   | 60%           | 30       |
|           |              | PRI values          | $\left(\frac{1}{360}\right)$  |               |          |
|           |              | randomly selected   | Roundun   |               |          |
|           |              | from the list of 23 | 19·10°  |               |          |
|           |              | PRI values in       | $\left(\left( \overline{\mathrm{PRI}}_{\mu \mathrm{sec}} \right) \right)$ |               |          |
|           |              | Table 5a            | $\left(\left(\mu \sec \right)\right)$                                     |               |          |
|           |              | Test B: 15 unique   |   |               |          |
|           |              | PRI values          |   |               |          |
|           |              | randomly selected   |   |               |          |
|           |              | within the range    |   |               |          |
|           |              | of 518-3066 µsec,   |   |               |          |
|           |              | with a minimum      |   |               |          |
|           |              | increment of 1      |   |               |          |
|           |              | µsec, excluding     |   |               |          |
|           |              | PRI values          |   |               |          |
|           |              | selected in Test A  |   |               |          |
| 2         | 1-5          | 150-230             | 23-29   | 60%           | 30       |
| 3         | 6-10         | 200-500             | 16-18   | 60%           | 30       |
| 4         | 11-20        | 200-500             | 12-16   | 60%           | 30       |
| Aggregate | (Radar Types | 1-4)                |   | 80%           | 120      |

| Table 9. | Short Pul | se Radar   | Test Way | veforms |
|----------|-----------|------------|----------|---------|
| Tuble 0. |           | 00 1 10001 | 1001 110 |         |

**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.



| Table 10: Long Pulse Radar Test Waveform |                          |                         |               |                                |                    |  |                               |  |  |
|--|--------------------------|-------------------------|---------------|--------------------------------|--------------------|--|-------------------------------|--|--|
| Radar<br>Type                            | Pulse<br>Width<br>(μsec) | Chirp<br>Width<br>(MHz) | PRI<br>(µsec) | Numberof<br>Pulsesper<br>Burst | Numberof<br>Bursts | Minimum<br>Percentage<br>of<br>Successful<br>Detection | Minimum<br>Number<br>ofTrials |  |  |
| 5  | 50-100                   | 5-20                    | 1000-2000     | 1-3                            | 8-20               | 80%  | 30                            |  |  |

The parameters for this waveform are randomly chosen (The center frequency for each of the 30 trials of the Bin 5 radar shall be randomly selected within 80% of the Occupied Bandwidth.) Thirty unique waveforms are required for the Long Pulse Radar Type waveforms. If more than 30 waveforms are used for the Long Pulse Radar Type waveforms, then each additional waveform must also be unique and not repeated from the previous waveforms.

Table 11: Frequency Hopping Radar Test Waveform

| Radar<br>Type | Pulse<br>Width<br>(µsec) | Chirp<br>Width<br>(MHz) | PRI<br>(µsec) | Numberof<br>Pulsesper<br>Burst | Numberof<br>Bursts | Minimum<br>Percentage of<br>Successful<br>Detection | Minimum<br>Number<br>ofTrials |
|---------------|--------------------------|-------------------------|---------------|--------------------------------|--------------------|---|-------------------------------|
| 6             | 1                        | 333                     | 9             | 0.333                          | 300                | 70%   | 30                            |



## 4. TEST INSTRUMENTS

| DESCRIPTION                       | MANUFACTURER | MODEL NO.    | Serial No  | Calibration<br>Until |
|-----------------------------------|--------------|--------------|------------|----------------------|
| MXG Vector<br>Signal<br>Generator | Agilent      | N5182B       | MY51350711 | May 18, 2016         |
| Spectrum<br>Analyzer              | Agilent      | N9010A       | MY54200240 | Aug. 25, 2016        |
| 10dB<br>Attenuators               | Mini-Cicuits | VAT-10+      | N/A        | May 17, 2016         |
| 10dB<br>Attenuators               | Mini-Cicuits | VAT-10+      | N/A        | May 17, 2016         |
| 30dB<br>Attenuators               | Mini-Cicuits | VAT-30+      | N/A        | May 17, 2016         |
| 30dB<br>Attenuators               | Mini-Cicuits | VAT-30+      | N/A        | May 17, 2016         |
| POWER<br>SPLITTER                 | Mini-Cicuits | ZFRSC-123-S+ | N/A        | May 17, 2016         |
| POWER<br>SPLITTER                 | Mini-Cicuits | ZFRSC-123-S+ | N/A        | May 17, 2016         |

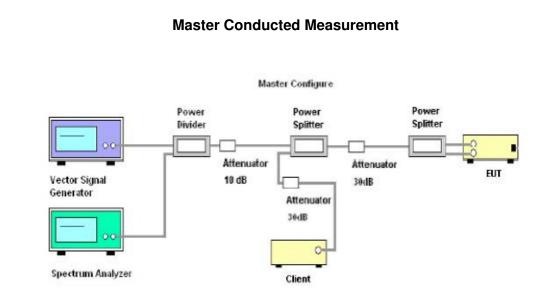
Note: Calibration interval of instruments listed above is one year.



#### **5.EMC EMISSION TEST**

#### **5.1DFS MEASUREMENT SYSTEM**

#### CONDUCTED METHOD SYSTEM BLOCK DIAGRAM



#### SYSTEM OVERVIEW

The short pulse and long pulse signal generating system utilizes the NTIA software. The Vector Signal Generator has been validated by the NTIA. The hopping signal generating system utilizes the CCS simulated hopping method and system, which has been validated by the DoD, FCC and NTIA. The software selects waveform parameters from within the bounds of the signal type on a random basis using uniform distribution.

The short pulse types 2, 3 and 4, and the long pulse type 5 parameters are randomized at run-time.



The hopping type 6 pulse parameters are fixed while the hopping sequence is based on the August 2005 NTIA Hopping Frequency List. The initial starting point randomized at run-time and each subsequent starting point is incremented by 475. Each frequency in the 100-length segment is compared to the boundaries of the EUT Detection Bandwidth and the software creates a hopping burst pattern in accordance with Section 7.4.1.3 Method #2 Simulated Frequency Hopping Radar Waveform Generating Subsystem of FCC 06-96. The frequency of the signal generator is incremented in 1 MHz steps from FL to FH for each successive trial. This incremental sequence is repeated as required to generate a minimum of 30 total trials and to maintain a uniform frequency distribution over the entire Detection Bandwidth.

The signal monitoring equipment consists of a spectrum analyzer set to display 8001 bins on the horizontal axis. The time-domain resolution is 2 msec / bin with a 16 second sweep time, meeting the 10 second short pulse reporting criteria. The aggregate ON time is calculated by multiplying the number of bins above a threshold during a particular observation period by the dwell time per bin, with the analyzer set to peak detection and max hold.

Should multiple RF ports be utilized for the Master and/or Slave devices (for example, for diversity or MIMO implementations), additional combiner/dividers are inserted between the Master Combiner/Divider and the pad connected to the Master Device (and/or between the Slave Combiner/Divider and the pad connected to the Slave Device). Additional pads are utilized such that there is one pad at each RF port on each EUT.



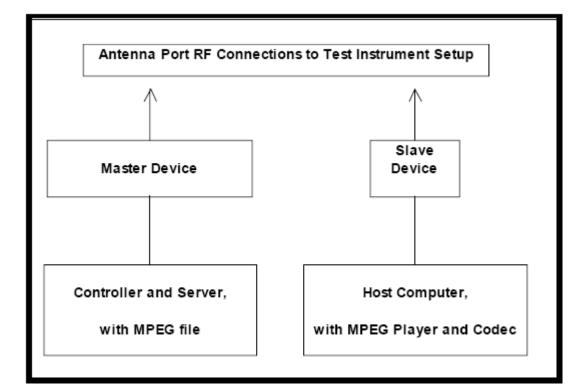
#### 5.2 CALIBRATION OF DFS DETECTION THRESHOLD LEVEL

A 50 ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected in place of the master device and the signal generator is set to CW mode. The amplitude of the signal generator is adjusted to yield a level of -62 dBm as measured on the spectrum analyzer.

Without changing any of the instrument settings, the spectrum analyer is reconnected to the Common port of the Spectrum Analyzer Combiner/Divider. Measure the amplitude and calculate the difference from –62 dBm. Adjust the Reference Level Offset of the spectrum analyzer to this difference.

The spectrum analyzer displays the level of the signal generator as received at the antenna ports of the Master Device. The interference detection threshold may be varied from the calibrated value of –62 dBm and the spectrum analyzer will still indicate the level as received by the Master Device.

Set the signal generator to produce a radar waveform, trigger a burst manually and measure the level on the spectrum analyzer. Readjust the amplitude of the signal generator as required so that the peak level of the waveform is at a displayed level equal to the required or desired interference detection threshold. Separate signal generator amplitude settings are determined as required for each radar type.



#### 5.3 DEVIATION FROM TEST STANDARD

No deviation.



## 6. TEST RESULTS

## 6.1 SUMMARY OF TEST RESULT

| Clause | Test Parameter                    | Remarks    | Pass/Fail |
|--------|-----------------------------------|------------|-----------|
| 15.407 | DFS Detection Threshold           | Applicable | Pass      |
| 15.407 | Channel Availability Check Time   | Applicable | Pass      |
| 15.407 | Channel Move Time                 | Applicable | Pass      |
| 15.407 | Channel Closing Transmission Time | Applicable | Pass      |
| 15.407 | Non- Occupancy Period             | Applicable | Pass      |
| 15.407 | Uniform Spreading                 | Applicable | Pass      |
| 15.407 | U-NII Detection Bandwidth         | Applicable | Pass      |

### 6.2 TEST MODE: DEVICE OPERATING IN MASTER MODE

Master with injection at the Master. (Radar Test Waveforms are injected into the Master)

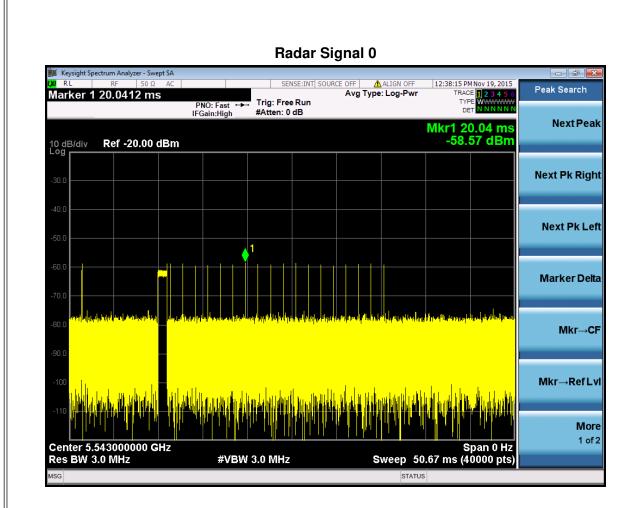
### 6.3 DFS DETECTION THRESHOLD

Calibration:

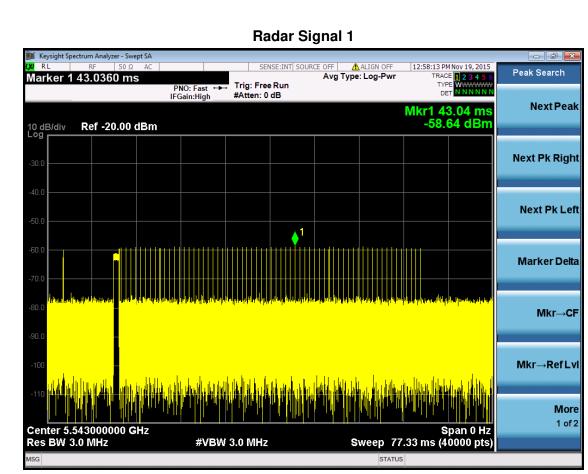
For a detection threshold level of -64dBmand the Master antenna gain is 5.89dBi, required detection threshold is -58.11 dBm (= -64+1.86).

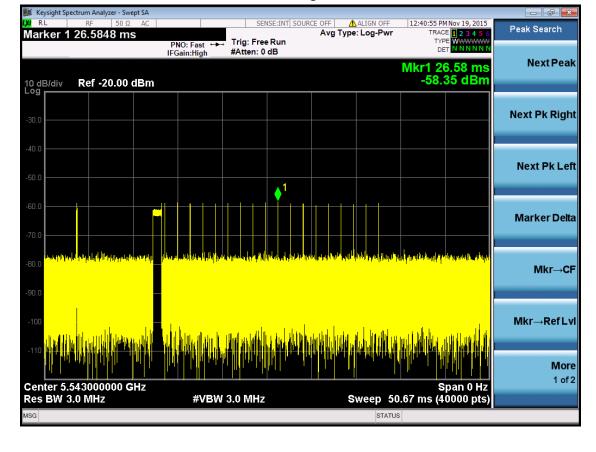
Note: Maximum Transmit Power is more than 200 milliwatt in this report, so detection threshold level is -64dBm (please refer to Table 7 [page 10]).



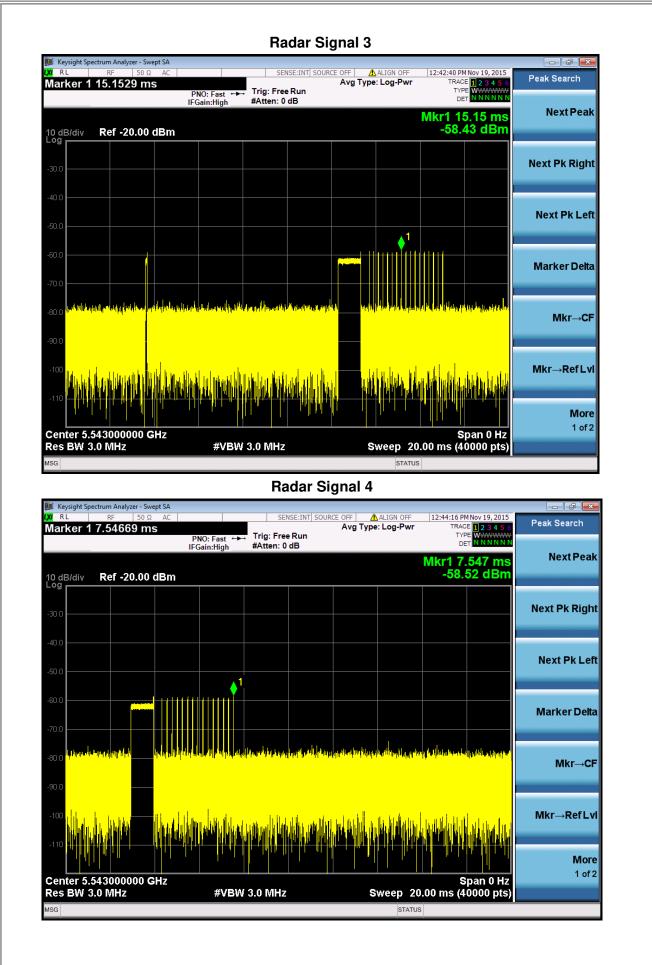




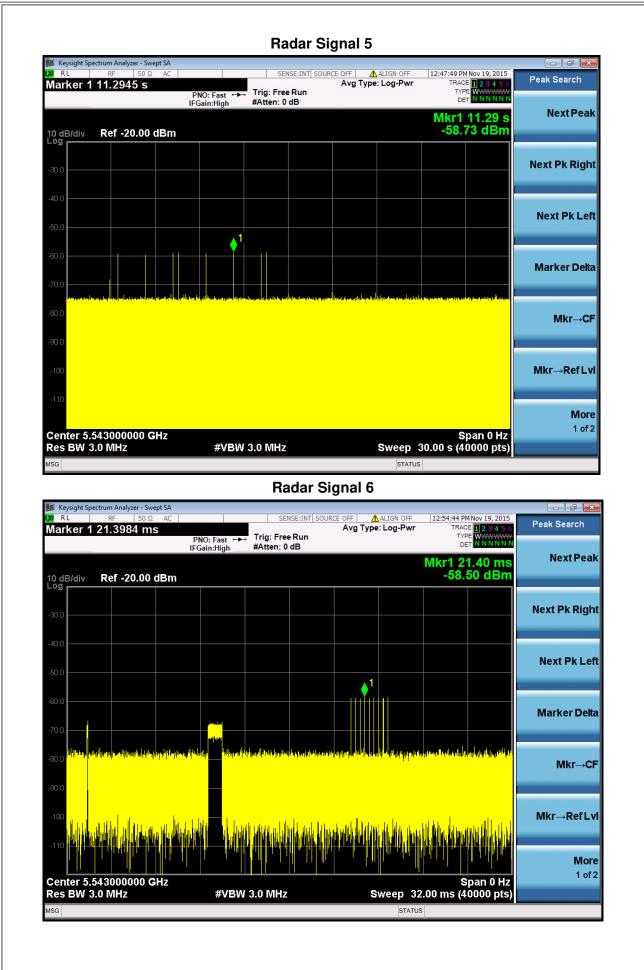












Report No.: BTL-FCCP-1-1410101C

| Trual ID | Radar<br>Typo | Pulse<br>Width (us) | PRI (us) | Number of<br>Pulses | Wavefirm<br>Length<br>(us) |
|----------|---------------|---------------------|----------|---------------------|----------------------------|
| 0        | Туре 0        | 1                   | 1428     | 18                  | 25704                      |
| 1        | Туре 0        | 1                   | 1428     | 18                  | 25704                      |
| 2        | Туре 0        | 1                   | 1428     | 18                  | 25704                      |
| 3        | Туре 0        | 1                   | 1428     | 18                  | 25704                      |
| 4        | Type 0        | 1                   | 1428     | 18                  | 25704                      |
| 5        | Туре 0        | 1                   | 1428     | 18                  | 25704                      |
| 6        | Туре 0        | 1                   | 1428     | 18                  | 25704                      |
| 7        | Туре 0        | 1                   | 1428     | 18                  | 25704                      |
| 8        | Туре 0        | 1                   | 1428     | 18                  | 25704                      |
| 9        | Туре 0        | 1                   | 1428     | 18                  | 25704                      |
| 10       | Туре 0        | 1                   | 1428     | 18                  | 25704                      |
| 11       | Туре 0        | 1                   | 1428     | 18                  | 25704                      |
| 12       | Туре 0        | 1                   | 1428     | 18                  | 25704                      |
| 13       | Туре 0        | 1                   | 1428     | 18                  | 25704                      |
| 14       | Туре 0        | 1                   | 1428     | 18                  | 25704                      |
| 15       | Туре 0        | 1                   | 1428     | 18                  | 25704                      |
| 16       | Туре 0        | 1                   | 1428     | 18                  | 25704                      |
| 17       | Туре 0        | 1                   | 1428     | 18                  | 25704                      |
| 18       | Туре 0        | 1                   | 1428     | 18                  | 25704                      |
| 19       | Туре 0        | 1                   | 1428     | 18                  | 25704                      |
| 20       | Туре 0        | 1                   | 1428     | 18                  | 25704                      |
| 21       | Туре 0        | 1                   | 1428     | 18                  | 25704                      |
| 22       | Туре 0        | 1                   | 1428     | 18                  | 25704                      |
| 23       | Туре 0        | 1                   | 1428     | 18                  | 25704                      |
| 24       | Туре 0        | 1                   | 1428     | 18                  | 25704                      |
| 25       | Туре 0        | 1                   | 1428     | 18                  | 25704                      |
| 26       | Туре 0        | 1                   | 1428     | 18                  | 25704                      |
| 27       | Туре 0        | 1                   | 1428     | 18                  | 25704                      |
| 28       | Туре 0        | 1                   | 1428     | 18                  | 25704                      |
| 29       | Type 0        | 1                   | 1428     | 18                  | 25704                      |

| Trual ID | Radar<br>Typo | Pulse<br>Width (us) | PRI (us) | Number of<br>Pulses | Wavefirm<br>Length<br>(us) |
|----------|---------------|---------------------|----------|---------------------|----------------------------|
| 0        | Type 1        | 1                   | 938      | 57                  | 53466                      |
| 1        | Type 1        | 1                   | 698      | 76                  | 53048                      |
| 2        | Type 1        | 1                   | 618      | 86                  | 53148                      |
| 3        | Type 1        | 1                   | 538      | 99                  | 53262                      |
| 4        | Type 1        | 1                   | 878      | 61                  | 53558                      |
| 5        | Type 1        | 1                   | 3066     | 18                  | 55188                      |
| 6        | Type 1        | 1                   | 638      | 83                  | 52954                      |
| 7        | Type 1        | 1                   | 918      | 58                  | 53244                      |
| 8        | Type 1        | 1                   | 838      | 63                  | 52794                      |
| 9        | Type 1        | 1                   | 858      | 62                  | 53196                      |
| 10       | Type 1        | 1                   | 798      | 67                  | 53466                      |
| 11       | Type 1        | 1                   | 718      | 74                  | 53132                      |
| 12       | Type 1        | 1                   | 578      | 92                  | 53176                      |
| 13       | Type 1        | 1                   | 598      | 89                  | 53222                      |
| 14       | Type 1        | 1                   | 558      | 95                  | 53010                      |
| 15       | Type 1        | 1                   | 2536     | 21                  | 53256                      |
| 16       | Type 1        | 1                   | 966      | 55                  | 53130                      |
| 17       | Type 1        | 1                   | 827      | 64                  | 52928                      |
| 18       | Type 1        | 1                   | 2501     | 22                  | 55022                      |
| 19       | Type 1        | 1                   | 2595     | 21                  | 54495                      |
| 20       | Type 1        | 1                   | 1114     | 48                  | 53472                      |
| 21       | Type 1        | 1                   | 1302     | 41                  | 53382                      |
| 22       | Type 1        | 1                   | 3045     | 18                  | 54810                      |
| 23       | Type 1        | 1                   | 1624     | 33                  | 53592                      |
| 24       | Type 1        | 1                   | 2878     | 19                  | 54682                      |
| 25       | Type 1        | 1                   | 1027     | 52                  | 53404                      |
| 26       | Type 1        | 1                   | 2485     | 22                  | 54670                      |
| 27       | Type 1        | 1                   | 1600     | 33                  | 52800                      |
| 28       | Type 1        | 1                   | 1172     | 46                  | 53912                      |
| 29       | Type 1        | 1                   | 1177     | 45                  | 52965                      |

| Trual ID | Radar<br>Typo | Pulse<br>Width (us) | PRI (us) | Number of<br>Pulses | Wavefirm<br>Length<br>(us) |
|----------|---------------|---------------------|----------|---------------------|----------------------------|
| 0        | Type 2        | 3.2                 | 179      | 26                  | 4654                       |
| 1        | Type 2        | 1.1                 | 207      | 23                  | 4761                       |
| 2        | Type 2        | 2.1                 | 230      | 24                  | 5520                       |
| 3        | Type 2        | 4.8                 | 200      | 29                  | 5800                       |
| 4        | Type 2        | 3.9                 | 214      | 28                  | 5992                       |
| 5        | Type 2        | 2.9                 | 222      | 26                  | 5772                       |
| 6        | Type 2        | 3.2                 | 204      | 26                  | 5304                       |
| 7        | Type 2        | 2.5                 | 192      | 25                  | 4800                       |
| 8        | Type 2        | 3.1                 | 164      | 26                  | 4264                       |
| 9        | Type 2        | 1.2                 | 156      | 23                  | 3588                       |
| 10       | Type 2        | 3.9                 | 210      | 27                  | 5670                       |
| 11       | Type 2        | 4.6                 | 201      | 29                  | 5829                       |
| 12       | Type 2        | 3.2                 | 162      | 26                  | 4212                       |
| 13       | Type 2        | 2.2                 | 197      | 25                  | 4925                       |
| 14       | Type 2        | 4.5                 | 163      | 29                  | 4727                       |
| 15       | Type 2        | 3                   | 203      | 26                  | 5278                       |
| 16       | Type 2        | 5                   | 168      | 29                  | 4872                       |
| 17       | Type 2        | 2.4                 | 217      | 25                  | 5425                       |
| 18       | Type 2        | 2.9                 | 191      | 26                  | 4966                       |
| 19       | Type 2        | 2.3                 | 166      | 25                  | 4150                       |
| 20       | Type 2        | 3.7                 | 150      | 27                  | 4050                       |
| 21       | Type 2        | 2.2                 | 176      | 25                  | 4400                       |
| 22       | Type 2        | 4.9                 | 195      | 29                  | 5655                       |
| 23       | Type 2        | 2.9                 | 202      | 26                  | 5252                       |
| 24       | Type 2        | 2.5                 | 178      | 25                  | 4450                       |
| 25       | Type 2        | 1.1                 | 206      | 23                  | 4738                       |
| 26       | Type 2        | 3.8                 | 155      | 27                  | 4185                       |
| 27       | Type 2        | 4.7                 | 157      | 29                  | 4553                       |
| 28       | Type 2        | 2.4                 | 224      | 25                  | 5600                       |
| 29       | Type 2        | 4.2                 | 159      | 28                  | 4452                       |

| Trual ID | Radar<br>Typo | Pulse<br>Width (us) | PRI (us) | Number of<br>Pulses | Wavefirm<br>Length<br>(us) |
|----------|---------------|---------------------|----------|---------------------|----------------------------|
| 0        | Туре 3        | 8.2                 | 355      | 17                  | 6035                       |
| 1        | Туре 3        | 6.1                 | 487      | 16                  | 7792                       |
| 2        | Туре 3        | 7.1                 | 344      | 16                  | 5504                       |
| 3        | Туре 3        | 9.8                 | 288      | 18                  | 5184                       |
| 4        | Туре 3        | 8.9                 | 230      | 18                  | 4140                       |
| 5        | Туре 3        | 7.9                 | 432      | 17                  | 7344                       |
| 6        | Туре 3        | 8.2                 | 207      | 17                  | 3519                       |
| 7        | Туре 3        | 7.5                 | 443      | 17                  | 7531                       |
| 8        | Туре 3        | 8.1                 | 439      | 17                  | 7463                       |
| 9        | Туре 3        | 6.2                 | 223      | 16                  | 3568                       |
| 10       | Туре 3        | 8.9                 | 208      | 18                  | 3744                       |
| 11       | Туре 3        | 9.6                 | 463      | 18                  | 8334                       |
| 12       | Туре 3        | 8.2                 | 441      | 17                  | 7497                       |
| 13       | Туре 3        | 7.2                 | 323      | 16                  | 5168                       |
| 14       | Туре 3        | 9.5                 | 297      | 18                  | 5346                       |
| 15       | Туре 3        | 8                   | 412      | 17                  | 7004                       |
| 16       | Туре 3        | 10                  | 324      | 18                  | 5832                       |
| 17       | Туре 3        | 7.4                 | 271      | 17                  | 4607                       |
| 18       | Туре 3        | 7.9                 | 349      | 17                  | 5933                       |
| 19       | Туре 3        | 7.3                 | 409      | 16                  | 6544                       |
| 20       | Туре 3        | 8.7                 | 373      | 18                  | 6714                       |
| 21       | Туре 3        | 7.2                 | 254      | 16                  | 4064                       |
| 22       | Туре 3        | 9.9                 | 274      | 18                  | 4932                       |
| 23       | Туре 3        | 7.9                 | 278      | 17                  | 4726                       |
| 24       | Туре 3        | 7.5                 | 317      | 17                  | 5389                       |
| 25       | Туре 3        | 6.1                 | 260      | 16                  | 4160                       |
| 26       | Туре 3        | 8.8                 | 211      | 18                  | 3798                       |
| 27       | Туре 3        | 9.7                 | 272      | 18                  | 4896                       |
| 28       | Туре 3        | 7.4                 | 264      | 17                  | 4488                       |
| 29       | Туре 3        | 9.2                 | 284      | 18                  | 5112                       |

| Trual ID | Radar<br>Typo | Pulse<br>Width (us) | PRI (us) | Number of<br>Pulses | Wavefirm<br>Length<br>(us) |
|----------|---------------|---------------------|----------|---------------------|----------------------------|
| 0        | Type 4        | 16                  | 355      | 14                  | 4970                       |
| 1        | Type 4        | 11.3                | 487      | 12                  | 5844                       |
| 2        | Type 4        | 13.5                | 344      | 13                  | 4472                       |
| 3        | Type 4        | 19.4                | 288      | 16                  | 4608                       |
| 4        | Type 4        | 17.5                | 230      | 15                  | 3450                       |
| 5        | Type 4        | 15.3                | 432      | 14                  | 6048                       |
| 6        | Type 4        | 15.9                | 207      | 14                  | 2898                       |
| 7        | Type 4        | 14.3                | 443      | 13                  | 5759                       |
| 8        | Type 4        | 15.8                | 439      | 14                  | 6146                       |
| 9        | Type 4        | 11.5                | 223      | 12                  | 2676                       |
| 10       | Type 4        | 17.4                | 208      | 15                  | 3120                       |
| 11       | Type 4        | 19                  | 463      | 16                  | 7408                       |
| 12       | Type 4        | 16                  | 441      | 14                  | 6174                       |
| 13       | Type 4        | 13.8                | 323      | 13                  | 4199                       |
| 14       | Type 4        | 18.9                | 297      | 16                  | 4752                       |
| 15       | Type 4        | 15.5                | 412      | 14                  | 5768                       |
| 16       | Type 4        | 19.9                | 324      | 16                  | 5184                       |
| 17       | Type 4        | 14.1                | 271      | 13                  | 3523                       |
| 18       | Type 4        | 15.2                | 349      | 14                  | 4886                       |
| 19       | Type 4        | 13.8                | 409      | 13                  | 5317                       |
| 20       | Type 4        | 17.1                | 373      | 15                  | 5595                       |
| 21       | Type 4        | 13.8                | 254      | 13                  | 3302                       |
| 22       | Type 4        | 19.8                | 274      | 16                  | 4384                       |
| 23       | Type 4        | 15.3                | 278      | 14                  | 3892                       |
| 24       | Type 4        | 14.5                | 317      | 13                  | 4121                       |
| 25       | Type 4        | 11.3                | 260      | 12                  | 3120                       |
| 26       | Type 4        | 17.3                | 211      | 15                  | 3165                       |
| 27       | Type 4        | 19.2                | 272      | 16                  | 4352                       |
| 28       | Type 4        | 14.2                | 264      | 13                  | 3432                       |
| 29       | Type 4        | 18.2                | 284      | 15                  | 4260                       |

| Trual ID | Radar Typo | Pulse Width<br>(us)    | PRI (us)  | Number of<br>Pulses | Center<br>Frequency(GHz) |  |
|----------|------------|------------------------|-----------|---------------------|--------------------------|--|
| 0        | Type 5     | 15                     | 0.8       | 12                  | 5.5525                   |  |
| 1        | Type 5     | 8                      | 1.5       | 12                  | 5.5325                   |  |
| 2        | Type 5     | 11                     | 1.0909091 | 12                  | 5.5415                   |  |
| 3        | Type 5     | 20                     | 0.6       | 12                  | 5.5665                   |  |
| 4        | Type 5     | 17                     | 0.7058824 | 12                  | 5.5585                   |  |
| 5        | Type 5     | 14                     | 0.8571429 | 12                  | 5.5495                   |  |
| 6        | Type 5     | 15                     | 0.8       | 12                  | 5.5515                   |  |
| 7        | Type 5     | 12                     | 1         | 12                  | 5.5445                   |  |
| 8        | Type 5     | 14                     | 0.8571429 | 12                  | 5.5515                   |  |
| 9        | Type 5     | 8                      | 1.5       | 12                  | 5.5335                   |  |
| 10       | Type 5     | 17                     | 0.7058824 | 12                  | 5.5585                   |  |
| 11       | Type 5     | 19                     | 0.6315789 | 12                  | 5.5645                   |  |
| 12       | Type 5     | 15                     | 0.8       | 12                  | 5.5515                   |  |
| 13       | Type 5     | 12                     | 1         | 12                  | 5.5425                   |  |
| 14       | Type 5     | 19                     | 0.6315789 | 12                  | 5.5645                   |  |
| 15       | Type 5     | 14                     | 0.8571429 | 12                  | 5.5495                   |  |
| 16       | Type 5     | 20                     | 0.6       | 12                  | 5.5685                   |  |
| 17       | Type 5     | 12                     | 1         | 12                  | 5.5445                   |  |
| 18       | Type 5     | 14                     | 0.8571429 | 12                  | 5.5485                   |  |
| 19       | Type 5     | 12                     | 1         | 12                  | 5.5435                   |  |
| 20       | Type 5     | 16                     | 0.75      | 12                  | 5.5565                   |  |
| 21       | Type 5     | 12                     | 1         | 12                  | 5.5425                   |  |
| 22       | Type 5     | 20                     | 0.6       | 12                  | 5.5675                   |  |
| 23       | Type 5     | 14                     | 0.8571429 | 12                  | 5.5495                   |  |
| 24       | Type 5     | 13                     | 0.9230769 | 12                  | 5.5455                   |  |
| 25       | Type 5     | 8                      | 1.5       | 12                  | 5.5325                   |  |
| 26       | Type 5     | 17                     | 0.7058824 | 12                  | 5.5575                   |  |
| 27       | Type 5     | Type 5 19 0.6315789 12 |           | 12                  | 5.5655                   |  |
| 28       | Type 5     | be 5 12 1 12           |           | 12                  | 5.5445                   |  |
| 29       | Type 5     | 18                     | 0.6666667 | 12                  | 5.5615                   |  |



| Trual ID | Radar<br>Typo | Pulse<br>Width<br>(μs) | PRI (μs)             | Pulses<br>per Hop | Hopping<br>Rate<br>(kHz) | Hopping<br>Sequence<br>Length<br>(ms) | Number of<br>Pulses |
|----------|---------------|------------------------|----------------------|-------------------|--------------------------|---------------------------------------|---------------------|
| 0        | Type 6        | 1                      | 333.3                | 9                 | 0.3333                   | 300                                   | 16                  |
| 1        | Type 6        | 1                      | 333.3                | 9                 | 0.3333                   | 300                                   | 10                  |
| 2        | Type 6        | 1                      | 333.3                | 9                 | 0.3333                   | 300                                   | 14                  |
| 3        | Type 6        | 1                      | 333.3                | 9                 | 0.3333                   | 300                                   | 19                  |
| 4        | Type 6        | 1                      | 333.3                | 9                 | 0.3333                   | 300                                   | 15                  |
| 5        | Type 6        | 1                      | 333.3                | 9                 | 0.3333                   | 300                                   | 18                  |
| 6        | Type 6        | 1                      | 333.3                | 9                 | 0.3333                   | 300                                   | 14                  |
| 7        | Type 6        | 1                      | 333.3                | 9                 | 0.3333                   | 300                                   | 14                  |
| 8        | Type 6        | 1                      | 333.3                | 9                 | 0.3333                   | 300                                   | 21                  |
| 9        | Type 6        | 1                      | 333.3                | 9                 | 0.3333                   | 300                                   | 15                  |
| 10       | Type 6        | 1                      | 333.3                | 9                 | 0.3333                   | 300                                   | 16                  |
| 11       | Type 6        | 1                      | 333.3                | 9                 | 0.3333                   | 300                                   | 24                  |
| 12       | Type 6        | 1                      | 333.3                | 9                 | 0.3333                   | 300                                   | 13                  |
| 13       | Type 6        | 1                      | 333.3                | 9                 | 0.3333                   | 300                                   | 20                  |
| 14       | Type 6        | 1                      | 333.3                | 9                 | 0.3333                   | 300                                   | 17                  |
| 15       | Type 6        | 1                      | 333.3                | 9                 | 0.3333                   | 300                                   | 20                  |
| 16       | Type 6        | 1                      | 333.3                | 9                 | 0.3333                   | 300                                   | 16                  |
| 17       | Type 6        | 1                      | 333.3                | 9                 | 0.3333                   | 300                                   | 18                  |
| 18       | Type 6        | 1                      | 333.3                | 9                 | 0.3333                   | 300                                   | 14                  |
| 19       | Type 6        | 1                      | 333.3                | 9                 | 0.3333                   | 300                                   | 16                  |
| 20       | Type 6        | 1                      | 333.3                | 9                 | 0.3333                   | 300                                   | 20                  |
| 21       | Type 6        | 1                      | 333.3                | 9                 | 0.3333                   | 300                                   | 19                  |
| 22       | Type 6        | 1                      | 333.3                | 9                 | 0.3333                   | 300                                   | 23                  |
| 23       | Type 6        | 1                      | 333.3                | 9                 | 0.3333                   | 300                                   | 17                  |
| 24       | Type 6        | 1                      | 333.3                | 9                 | 0.3333                   | 300                                   | 16                  |
| 25       | Type 6        | 1                      | 333.3                | 9                 | 0.3333                   | 300                                   | 13                  |
| 26       | Type 6        | 1                      | 333.3                | 9                 | 0.3333                   | 300                                   | 13                  |
| 27       | Type 6        | 1                      | 333.3                | 9                 | 0.3333                   | 300                                   | 18                  |
| 28       | Type 6        | 1                      | I 333.3 9 0.3333 300 |                   | 19                       |                                       |                     |
| 29       | Type 6        | 1                      | 333.3                | 9                 | 0.3333                   | 300                                   | 20                  |

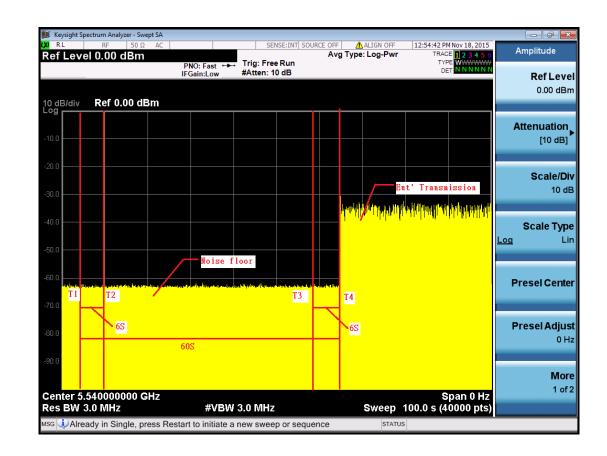


### 6.4 CHANNEL AVAILABILITY CHECK TIME

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



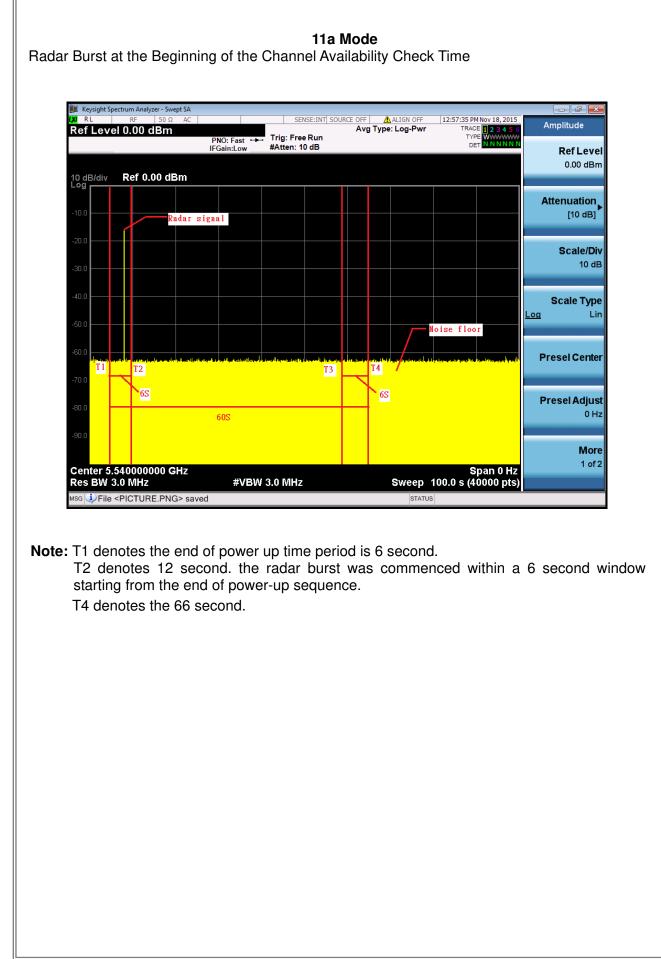
Initial Channel Availability Check Time



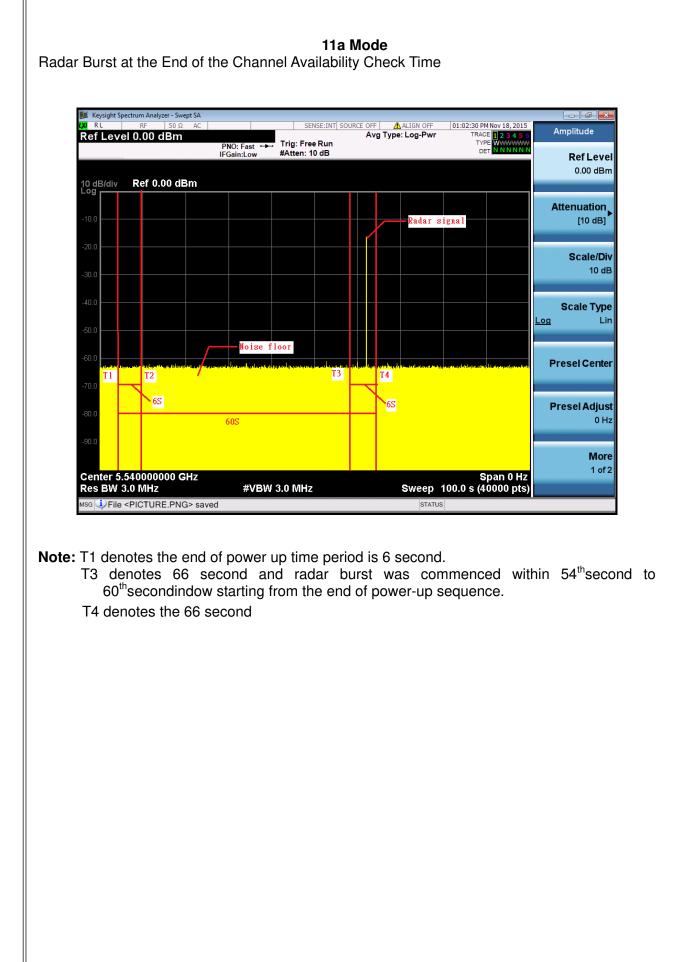
Note:T1 denotes the end of power-up time period is 6 second.

T4 denotes the end of Channel Availability Check time is 66 second. Channel Availability Check time is equal to (T4 - T1) 60 seconds.

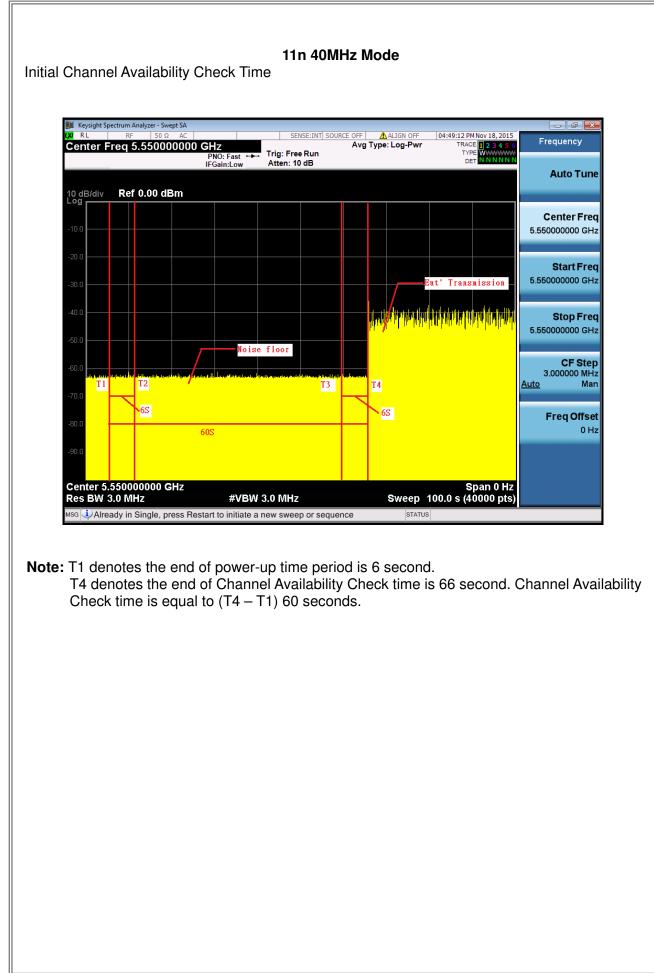




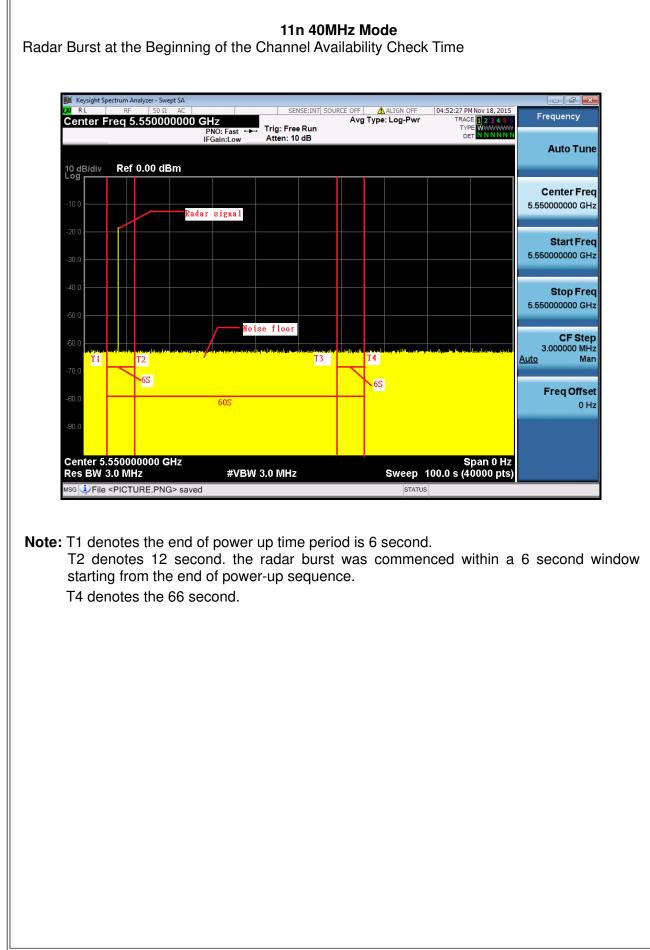




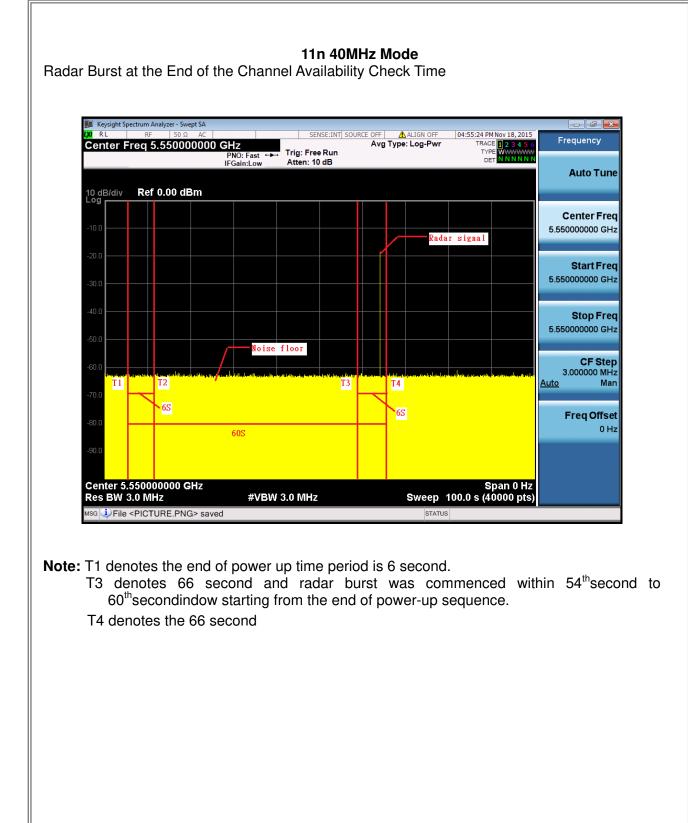








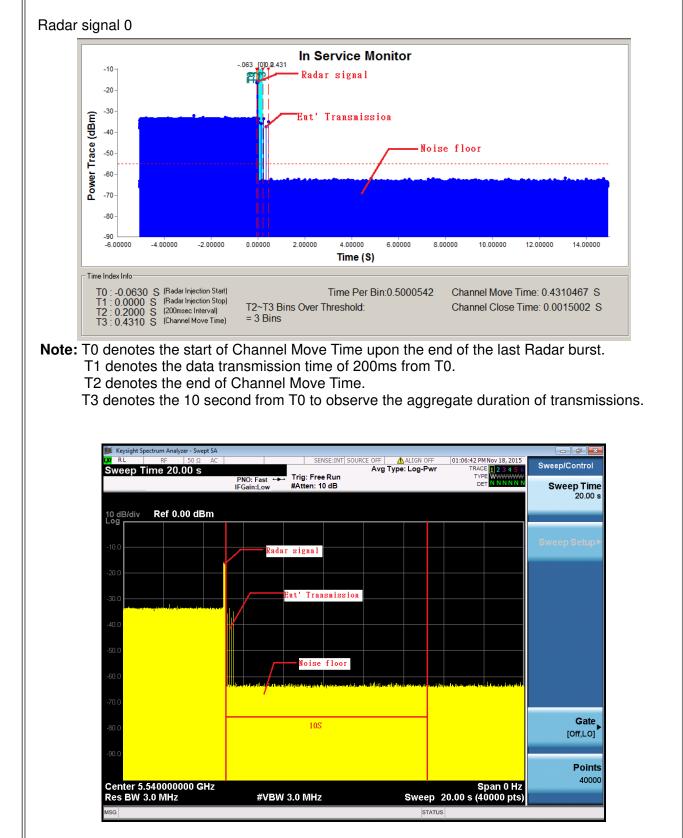






### 6.5 CHANNEL CLOSING TRANSMISSION AND CHANNEL MOVE TIME WLAN TRAFFIC

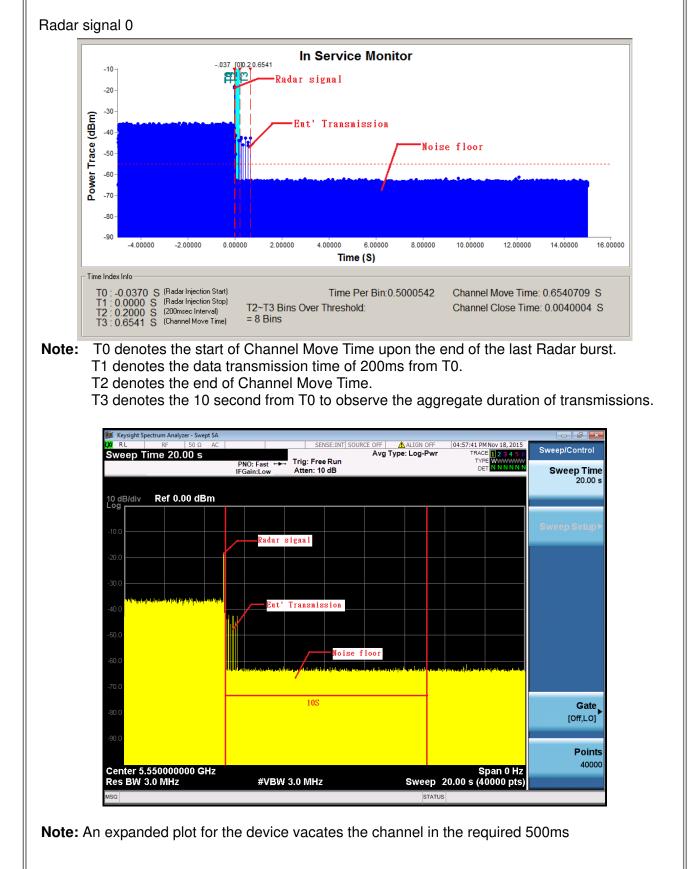
#### TX (11a Mode)



Note: An expanded plot for the device vacates the channel in the required 500ms



## TX (11n 40MHz Mode)





### 6.6 STATISTICAL PERFORMANCE CHECK

TX (11a Mode)

Table 1: Short Pulse Radar Test Waveforms.

| Radar Type | Pulse Width<br>(µsec) | PRI<br>(µsec) | Number<br>of Pulses  | Pass<br>times | Fail<br>times | Percentage<br>ofSuccessful<br>Detection (%) |
|------------|-----------------------|---------------|--|---------------|---------------|---|
| 1          | 1 1                   |               | Test A: 15 unique<br>PRI values<br>randomly selected<br>from the list of 23<br>PRI values in<br>Table 5a<br>Test B: 15 unique<br>PRI values<br>randomly selected<br>within the range<br>of 518-3066 µsec,<br>with a minimum<br>increment of 1<br>µsec, excluding<br>PRI values<br>selected in Test A |               | 3             | 90  |
| 2          | 1-5                   | 150-230       | 23-29  | 20            | 10            | 67  |
| 3          | 6-10                  | 200-500       | 16-18  | 25            | 5             | 83  |
| 4 11-20    |                       | 200-500       | 12-16  | 27            | 3             | 90  |
| Aggreg     | ate (Radar Type       | es 1-4)       | _  | 99            | 21            | 83  |

## Table 2: Long Pulse Radar Test Waveform

| Radar<br>Type | Pulse<br>Width<br>(µsec) | Chirp<br>Width<br>(MHz) | PRI<br>(µsec) | Numberof<br>Pulses<br>PerBurst | Numbe<br>rof<br>Bursts | Pass<br>times | Fail<br>times | Percentage<br>of<br>Successful<br>Detection<br>(%) |
|---------------|--------------------------|-------------------------|---------------|--------------------------------|------------------------|---------------|---------------|--|
| 5             | 50-100                   | 5-20                    | 1000-2000     | 1-3                            | 8-20                   | 28            | 2             | 93   |

Table 3: Frequency Hopping Radar Test Waveform

| Radar<br>Type | Pulse<br>Width<br>(μsec) | PRI<br>(µsec) | Pulses<br>per<br>Hop | Hopping<br>Rate<br>(kHz) | Hopping<br>Sequence<br>Length<br>(msec) | Pass<br>times | Fail<br>times | Percentage<br>of<br>Successful<br>Detection<br>(%) |
|---------------|--------------------------|---------------|----------------------|--------------------------|---|---------------|---------------|--|
| 6             | 1                        | 333           | 9                    | 0.333                    | 300                                     | 28            | 2             | 93   |



## TX (11n 40MHz Mode)

| Table 1: Short Pulse Radar Test Waveforms. |
|--|

| Radar Type | Pulse Width<br>(µsec) | PRI<br>(µsec)  | Number<br>of Pulses  | Pass<br>times | Fail<br>times | Percentage of<br>Successful<br>Detection (%) |
|------------|-----------------------|--|--|---------------|---------------|--|
| 1          | 1                     | Test A: 15 unique<br>PRI values<br>randomly selected<br>from the list of 23<br>PRI values in<br>Table 5a<br>Test B: 15 unique<br>PRI values<br>randomly selected<br>within the range<br>of 518-3066 µsec,<br>with a minimum<br>increment of 1<br>µsec, excluding<br>PRI values<br>selected in Test A | $-\frac{\text{Roundup}}{\left(\frac{1}{360}\right)} \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu use}}\right)$ | 29            | 2             | 93   |
| 2          | 1-5                   | 150-230  | 23-29  | 28            | 3             | 90   |
| 3          | 6-10                  | 200-500  | 16-18  | 27            | 4             | 87   |
| 4          | 11-20                 | 200-500 12-16  |  | 28            | 8             | 73   |
| Aggreg     | ate (Radar Type       | s 1-4)   | -  | 112           | 17            | 86   |

# Table 2: Long Pulse Radar Test Waveform

| Rada<br>Type | Width  | PRI<br>(µsec) | Pulses<br>per Hop | Hopping<br>Rate<br>(kHz) | Hopping<br>Sequence<br>Length<br>(msec) | Pass<br>times | Fail<br>times | Percentage<br>of<br>Successful<br>Detection<br>(%) |
|--------------|--------|---------------|-------------------|--------------------------|---|---------------|---------------|--|
| 5            | 50-100 | 5-20          | 1000-2000         | 1-3                      | 8-20                                    | 30            | 0             | 100  |

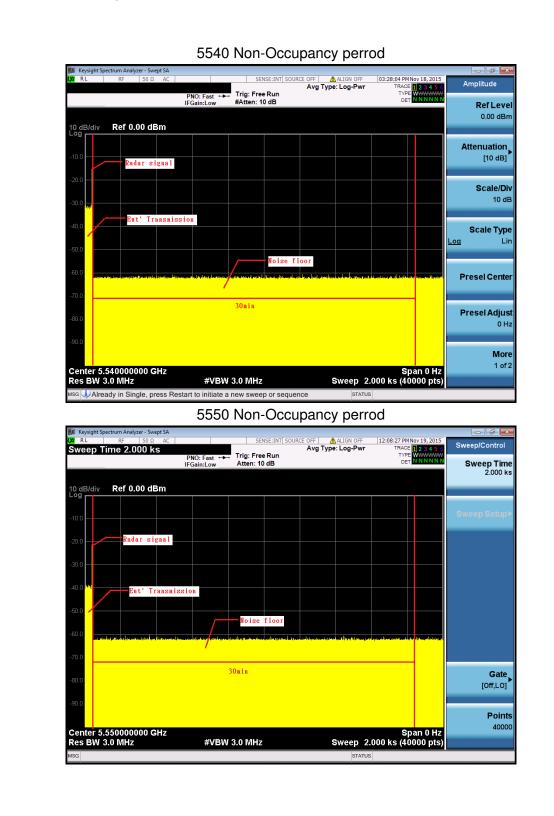
### Table 3: Frequency Hopping Radar Test Waveform

| Radar<br>Type | Pulse<br>Width<br>(μsec) | PRI<br>(µsec) | Pulses<br>per<br>Hop | Hopping<br>Rate<br>(kHz) | Hopping<br>Sequence<br>Length<br>(msec) | Pass<br>times | Fail<br>times | Percentage<br>of<br>Successful<br>Detection<br>(%) |
|---------------|--------------------------|---------------|----------------------|--------------------------|---|---------------|---------------|--|
| 6             | 1                        | 333           | 9                    | 0.333                    | 300                                     | 30            | 0             | 100  |



#### 6.7 NON- OCCUPANCY PERIOD

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

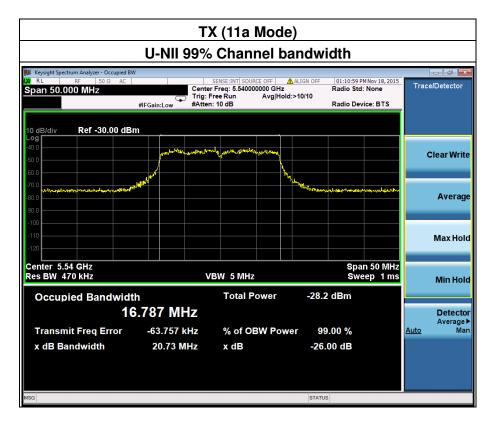




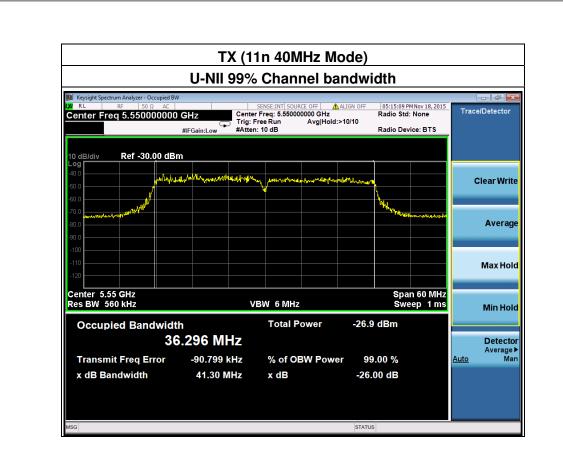
#### 6.8 UNIFORM SPREADING

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

#### 6.9 U-NII DETECTION BANDWIDTH









#### 11a Mode

|                    |   |         | D       | etection E | Bandwith | test trann | nission 20 | M |   |    |                    |  |
|--------------------|---|---------|---------|------------|----------|------------|------------|---|---|----|--------------------|--|
| EUT FREQUENCY      |   | 5540M   |         |            |          |            |            |   |   |    |                    |  |
| EUT power bandwit  | th  | 17      |         |            |          |            |            |   |   |    |                    |  |
| Detection Bandwith | limit(100   | %of EUT | 99% Pow | er bandw   | 16.787   |            |            |   |   |    |                    |  |
| Detection Bandwith | 5548(FH   | 5532(FL | )       |            |          |            |            |   |   |    |                    |  |
| Test Result        | PASS  |         |         |            |          |            |            |   |   |    |                    |  |
|                    | DFS Detection Trials (1=Detection, 0= No Detection) |         |         |            |          |            |            |   |   |    |                    |  |
| Radar Freq (MHz)   | 1   | 2       | 3       | 4          | 5        | 6          | 7          | 8 | 9 | 10 | Detection Rate (%) |  |
| 5529               | 1   | 1       | 0       | 1          | 0        | 0          | 1          | 1 | 0 | 1  | 60                 |  |
| 5530               | 1   | 1       | 1       | 1          | 1        | 1          | 1          | 1 | 1 | 1  | 100                |  |
| 5531               | 1   | 1       | 1       | 1          | 1        | 1          | 1          | 1 | 1 | 1  | 100                |  |
| 5532(FL)           | 1   | 1       | 1       | 1          | 1        | 1          | 1          | 1 | 1 | 1  | 100                |  |
| 5533               | 1   | 1       | 1       | 1          | 1        | 1          | 1          | 1 | 1 | 1  | 100                |  |
| 5534               | 1   | 1       | 1       | 1          | 1        | 1          | 1          | 1 | 1 | 1  | 100                |  |
| 5535               | 1   | 1       | 1       | 1          | 1        | 1          | 1          | 1 | 1 | 1  | 100                |  |
| 5536               | 1   | 1       | 1       | 1          | 1        | 1          | 1          | 1 | 1 | 1  | 100                |  |
| 5537               | 1   | 1       | 1       | 1          | 1        | 1          | 1          | 1 | 1 | 1  | 100                |  |
| 5538               | 1   | 1       | 1       | 1          | 1        | 1          | 1          | 1 | 1 | 1  | 100                |  |
| 5539               | 1   | 1       | 1       | 1          | 1        | 1          | 1          | 1 | 1 | 1  | 100                |  |
| 5540               | 1   | 1       | 1       | 1          | 1        | 1          | 1          | 1 | 1 | 1  | 100                |  |
| 5541               | 1   | 1       | 1       | 1          | 1        | 1          | 1          | 1 | 1 | 1  | 100                |  |
| 5542               | 1   | 1       | 1       | 1          | 1        | 1          | 1          | 1 | 1 | 1  | 100                |  |
| 5543               | 1   | 1       | 1       | 1          | 1        | 1          | 1          | 1 | 1 | 1  | 100                |  |
| 5544               | 1   | 1       | 1       | 1          | 1        | 1          | 1          | 1 | 1 | 1  | 100                |  |
| 5545               | 1   | 1       | 1       | 1          | 1        | 1          | 1          | 1 | 1 | 1  | 100                |  |
| 5546               | 1   | 1       | 1       | 1          | 1        | 1          | 1          | 1 | 1 | 1  | 100                |  |
| 5547               | 1   | 1       | 1       | 1          | 1        | 1          | 1          | 1 | 1 | 1  | 100                |  |
| 5548(FH)           | 1   | 1       | 1       | 1          | 1        | 1          | 1          | 1 | 1 | 1  | 100                |  |
| 5549               | 1   | 1       | 1       | 1          | 1        | 1          | 1          | 1 | 1 | 1  | 100                |  |



#### 11n 40MHz Mode

| 11n 40MHz M                     |       |           |        |            |            |           |          |          |   |    |                    |  |
|---------------------------------|-------|-----------|--------|------------|------------|-----------|----------|----------|---|----|--------------------|--|
| Detection Bandwith test tranmis |       |           |        |            |            |           |          |          |   |    |                    |  |
| EUT FREQUENCY                   |       | 5550M     |        |            |            |           |          |          |   |    |                    |  |
| EUT power bandwi                | 36MHz |           |        |            |            |           |          |          |   |    |                    |  |
| Detection Bandwith              |       |           |        | er bandw   | ith)       | 36.29     |          |          |   |    |                    |  |
| Detection Bandwith              |       | H)-5531(F | L))    | 39         |            |           |          |          |   |    |                    |  |
| Test Result                     | PASS  |           |        |            |            |           |          |          |   |    |                    |  |
|                                 |       |           | DFS De | etection T | rials (1=D | etection, | 0= No De | tection) |   |    |                    |  |
| Radar Freq (MHz)                | 1     | 2         | 3      | 4          | 5          | 6         | 7        | 8        | 9 | 10 | Detection Rate (%) |  |
| 5529                            | 1     | 1         | 1      | 1          | 1          | 1         | 0        | 0        | 1 | 1  | 80                 |  |
| 5530                            | 1     | 1         | 1      | 1          | 1          | 0         | 1        | 1        | 1 | 1  | 90                 |  |
| 5531(FL)                        | 1     | 1         | 1      | 1          | 1          | 1         | 1        | 1        | 1 | 1  | 100                |  |
| 5532                            | 1     | 1         | 1      | 1          | 1          | 1         | 1        | 1        | 1 | 1  | 100                |  |
| 5533                            | 1     | 1         | 1      | 1          | 1          | 1         | 1        | 1        | 1 | 1  | 100                |  |
| 5534                            | 1     | 1         | 1      | 1          | 1          | 1         | 1        | 1        | 1 | 1  | 100                |  |
| 5535                            | 1     | 1         | 1      | 1          | 1          | 1         | 1        | 1        | 1 | 1  | 100                |  |
| 5536                            | 1     | 1         | 1      | 1          | 1          | 1         | 1        | 1        | 1 | 1  | 100                |  |
| 5537                            | 1     | 1         | 1      | 1          | 1          | 1         | 1        | 1        | 1 | 1  | 100                |  |
| 5538                            | 1     | 1         | 1      | 1          | 1          | 1         | 1        | 1        | 1 | 1  | 100                |  |
| 5539                            | 1     | 1         | 1      | 1          | 1          | 1         | 1        | 1        | 1 | 1  | 100                |  |
| 5540                            | 1     | 1         | 1      | 1          | 1          | 1         | 1        | 1        | 1 | 1  | 100                |  |
| 5541                            | 1     | 1         | 1      | 1          | 1          | 1         | 1        | 1        | 1 | 1  | 100                |  |
| 5542                            | 1     | 1         | 1      | 1          | 1          | 1         | 1        | 1        | 1 | 1  | 100                |  |
| 5543                            | 1     | 1         | 1      | 1          | 1          | 1         | 1        | 1        | 1 | 1  | 100                |  |
| 5544                            | 1     | 1         | 1      | 1          | 1          | 1         | 1        | 1        | 1 | 1  | 100                |  |
| 5545                            | 1     | 1         | 1      | 1          | 1          | 1         | 1        | 1        | 1 | 1  | 100                |  |
| 5546                            | 1     | 1         | 1      | 1          | 1          | 1         | 1        | 1        | 1 | 1  | 100                |  |
| 5547                            | 1     | 1         | 1      | 1          | 1          | 1         | 1        | 1        | 1 | 1  | 100                |  |
| 5548                            | 1     | 1         | 1      | 1          | 1          | 1         | 1        | 1        | 1 | 1  | 100                |  |
| 5549                            | 1     | 1         | 1      | 1          | 1          | 1         | 1        | 1        | 1 | 1  | 100                |  |
| 5550                            | 1     | 1         | 1      | 1          | 1          | 1         | 1        | 1        | 1 | 1  | 100                |  |
| 5551                            | 1     | 1         | 1      | 1          | 1          | 1         | 1        | 1        | 1 | 1  | 100                |  |
| 5552                            | 1     | 1         | 1      | 1          | 1          | 1         | 1        | 1        | 1 | 1  | 100                |  |
| 5553                            | 1     | 1         | 1      | 1          | 1          | 1         | 1        | 1        | 1 | 1  | 100                |  |
| 5554                            | 1     | 1         | 1      | 1          | 1          | 1         | 1        | 1        | 1 | 1  | 100                |  |
| 5555                            | 1     | 1         | 1      | 1          | 1          | 1         | 1        | 1        | 1 | 1  | 100                |  |
| 5556                            | 1     | 1         | 1      | 1          | 1          | 1         | 1        | 1        | 1 | 1  | 100                |  |
| 5557                            | 1     | 1         | 1      | 1          | 1          | 1         | 1        | 1        | 1 | 1  | 100                |  |
| 5558                            | 1     | 1         | 1      | 1          | 1          | 1         | 1        | 1        | 1 | 1  | 100                |  |
| 5559                            | 1     | 1         | 1      | 1          | 1          | 1         | 1        | 1        | 1 | 1  | 100                |  |
| 5560                            | 1     | 1         | 1      | 1          | 1          | 1         | 1        | 1        | 1 | 1  | 100                |  |
| 5561                            | 1     | 1         | 1      | 1          | 1          | 1         | 1        | 1        | 1 | 1  | 100                |  |
| 5562                            | 1     | 1         | 1      | 1          | 1          | 1         | 1        | 1        | 1 | 1  | 100                |  |
| 5563                            | 1     | 1         | 1      | 1          | 1          | 1         | 1        | 1        | 1 | 1  | 100                |  |
| 5564                            | 1     | 1         | 1      | 1          | 1          | 1         | 1        | 1        | 1 | 1  | 100                |  |
| 5565                            | 1     | 1         | 1      | 1          | 1          | 1         | 1        | 1        | 1 | 1  | 100                |  |
| 5566                            | 1     | 1         | 1      | 1          | 1          | 1         | 1        | 1        | 1 | 1  | 100                |  |
| 5567                            | 1     | 1         | 1      | 1          | 1          | 1         | 1        | 1        | 1 | 1  | 100                |  |
| 5568                            | 1     | 1         | 1      | 1          | 1          | 1         | 1        | 1        | 1 | 1  | 100                |  |
| 5569(FL)                        | 1     | 1         | 1      | 1          | 1          | 1         | 1        | 1        | 1 | 1  | 100                |  |
| 5570                            | 1     | 1         | 1      | 1          | 1          | 1         | 1        | 1        | 1 | 1  | 100                |  |
| 5571                            | 0     | 0         | 1      | 1          | 0          | 0         | 0        | 0        | 0 | 0  | 20                 |  |



# 7. EUT TEST PHOTO

