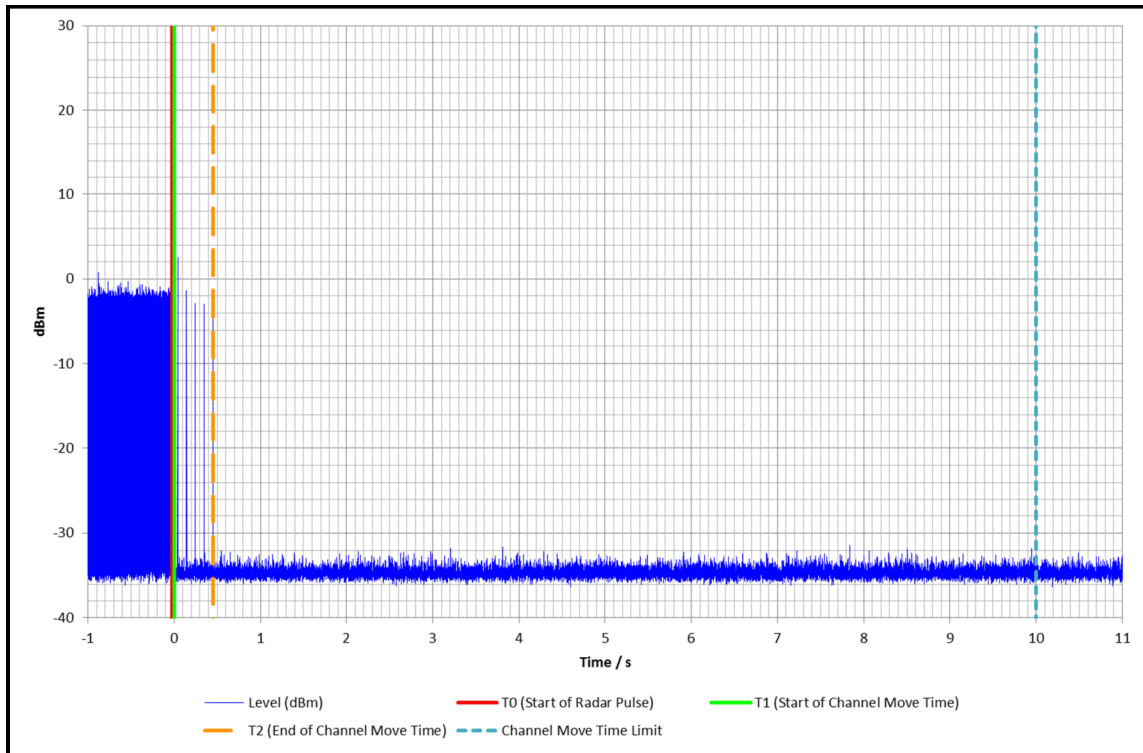
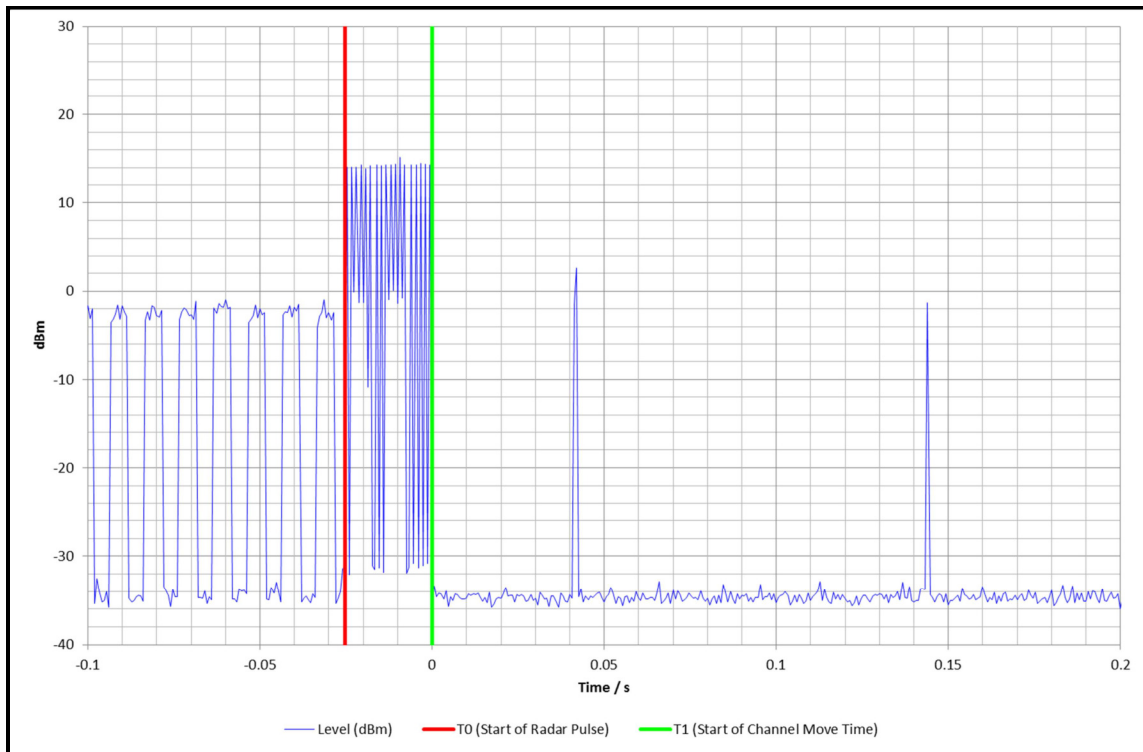


**Channel Closing Transmission Time and Channel Move Time (continued)****Results: 40 MHz Master**

Plot showing the full 10 second shutdown limit



Zoomed plot showing the first 200 ms after the end of the type 0 radar burst

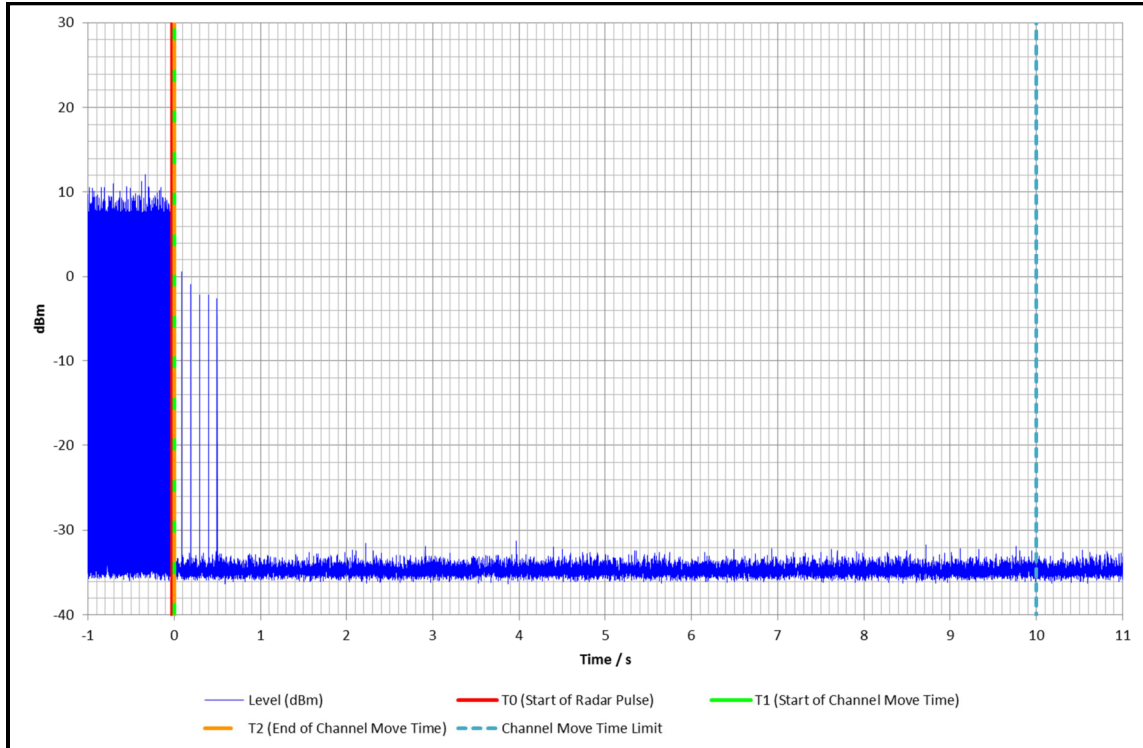
**Channel Closing Transmission Time and Channel Move Time (continued)****Results: 40 MHz Client, Radar at Master – Channel Move Time**

| Channel (MHz) | Move Time (ms) | Limit (ms) | Margin (ms) | Detected |
|---------------|----------------|------------|-------------|----------|
| 5510          | 0              | 10000      | 10000       | Yes      |

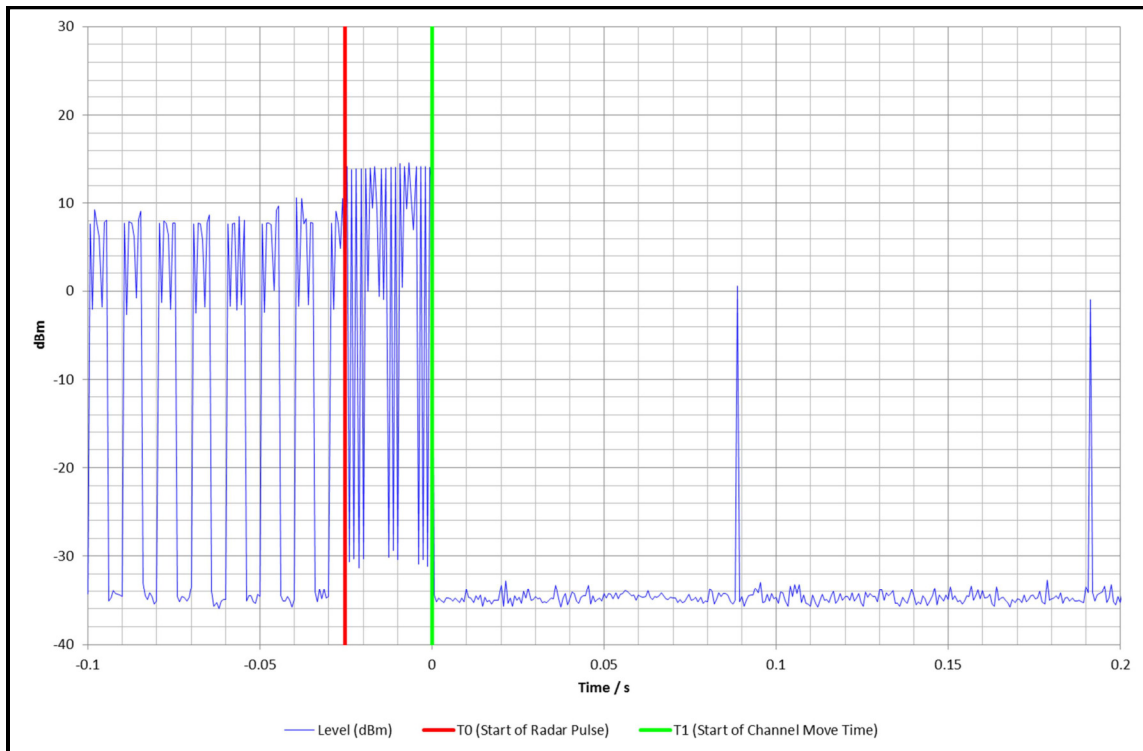
**Results: 40 MHz Client, Radar at Master – Channel Closing Transmission Time**

| Channel (MHz) | Total Aggregate Tx Time (ms) | Limit (ms) | Margin (ms) | Tx Time >200 ms after end of radar (ms) | Limit (ms) | Margin (ms) |
|---------------|------------------------------|------------|-------------|-----------------------------------------|------------|-------------|
| 5510          | 0                            | 260        | 260         | 0                                       | 60         | 60          |

NOTE: A channel move or closing transmission time of zero occurs when the EUT shuts down before the end of the radar burst.

**Channel Closing Transmission Time and Channel Move Time (continued)**

Plot showing the full 10 second shutdown limit



Zoomed plot showing the first 200 ms after the end of the type 0 radar burst

**Channel Closing Transmission Time and Channel Move Time (continued)****Limits:****Part 15.407(h)(2)(iii)**

After a radar's presence is detected, all transmissions shall cease on the operating channel within 10 seconds. Transmissions during this period shall consist of normal traffic for a maximum of 200 ms after detection of the radar signal. In addition, intermittent management and control signals can be sent during the remaining time to facilitate vacating the operating channel.

**KDB 905462 D02 Table 4: DFS Response Requirement Values**

| Parameter                                                                                                                                                                                                                                                                                                                                                                                                                             | Value                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| <i>Channel Move Time</i>                                                                                                                                                                                                                                                                                                                                                                                                              | 10 seconds<br>See Note 1.                                                                                 |
| <i>Channel Closing Transmission Time</i>                                                                                                                                                                                                                                                                                                                                                                                              | 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period.<br>See Notes 1 and 2. |
| <b>Note 1:</b> <i>Channel Move Time</i> and the <i>Channel Closing Transmission Time</i> should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.                                                                                                                                                                                                                                   |                                                                                                           |
| <b>Note 2:</b> The <i>Channel Closing Transmission Time</i> is comprised of 200 milliseconds starting at the beginning of the <i>Channel Move Time</i> plus any additional intermittent control signals required to facilitate a <i>Channel</i> move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions. |                                                                                                           |

**5.2.6. Non-occupancy Period****Test Summary:**

|                                   |                 |                   |                  |
|-----------------------------------|-----------------|-------------------|------------------|
| <b>Test Engineer:</b>             | Georgios Vrezas | <b>Test Date:</b> | 08 December 2015 |
| <b>Test Sample Serial Number:</b> | VPE7129190      |                   |                  |

|                          |                              |
|--------------------------|------------------------------|
| <b>FCC Reference:</b>    | Part 15.407(h)(iv)           |
| <b>Test Method Used:</b> | KDB 905462 D02 Section 7.8.3 |

**Environmental Conditions:**

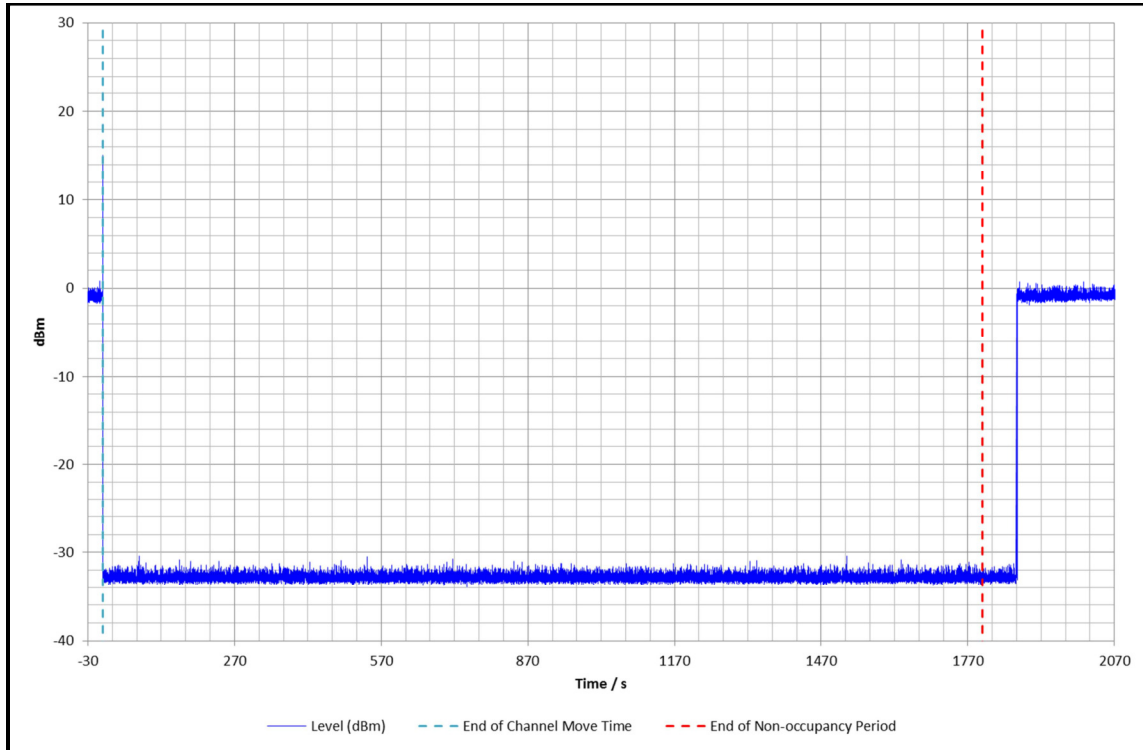
|                               |    |
|-------------------------------|----|
| <b>Temperature (°C):</b>      | 23 |
| <b>Relative Humidity (%):</b> | 48 |

**Notes:**

1. In accordance with KDB 905462 D02 Table 2, the Initial Channel Availability Check test was performed on any single bandwidth. It was therefore tested only on a 40 MHz channel bandwidth.
2. UDP test data was streamed from the Master to the Client device using iPerf3 bandwidth testing tool. The channel loading was 24.2% with a 30 Mbit/s data rate. This therefore met the channel loading requirement of >17% in KDB 905462 D02 Section 7.7(c).
3. Tests were performed using a type 0 radar and the radar detection threshold calculated in Section 4.2 of this test report.
4. Radar burst type 0 was detected and the channel was vacated for >1800 seconds, meeting the 30 minute (1800 second) non-occupancy period. During this period all emissions remained below the -27 dBm/MHz spurious limit. Channel move occurred within the channel move and channel closing time limits. Therefore the EUT complied.

**Non-occupancy Period (continued)****Results: 40 MHz Master**

| Channel (MHz) | Trial | Non-Occ (min) | Limit (min) | Margin (min) | Result   |
|---------------|-------|---------------|-------------|--------------|----------|
| 5510          | 1     | 31.2          | 30          | 1.2          | Complied |

**Limits:****Part 15.407(h)(2)(iv)**

A channel that has been flagged as containing a radar system, either by a channel availability check or in-service monitoring, is subject to a non-occupancy period of at least 30 minutes. The non-occupancy period starts at the time when the radar system is detected.

**KDB 905462 D02 Table 4: DFS Response Requirement Values**

| Parameter            | Value              |
|----------------------|--------------------|
| Non-occupancy period | Minimum 30 minutes |

**5.2.7. Statistical Performance Check – Short Pulse Radar Types 1 – 4****Test Summary:**

|                                   |                 |                    |                                        |
|-----------------------------------|-----------------|--------------------|----------------------------------------|
| <b>Test Engineer:</b>             | Georgios Vrezas | <b>Test Dates:</b> | 24 November 2015 &<br>25 November 2015 |
| <b>Test Sample Serial Number:</b> | VPE7129190      |                    |                                        |

|                          |                                                |
|--------------------------|------------------------------------------------|
| <b>FCC Reference:</b>    | Part 15.407(h)(2)                              |
| <b>Test Method Used:</b> | KDB 905462 D02 Section 7.8.4.1 and Notes below |

**Environmental Conditions:**

|                               |          |
|-------------------------------|----------|
| <b>Temperature (°C):</b>      | 24       |
| <b>Relative Humidity (%):</b> | 31 to 34 |

**Notes:**

1. In accordance with KDB 905462 D02 Table 2, the Statistical Performance Check test was performed on all supported channel bandwidths and frequencies selected within the radar detection bandwidth.
2. UDP test data was streamed from the Master to the Client device using iPerf3 bandwidth testing tool. This was set to 15 Mbit/s and 30 Mbit/s throughput rate for the 20 MHz and 40 MHz channels respectively. The channel loading was measured as 26.3% for 20 MHz operation and 24.2% for 40 MHz. This therefore met the channel loading requirement of >17% in KDB 905462 D02 Section 7.7(c).
3. Tests were performed using the radar detection threshold calculated in Section 4.2 of this report.
4. Parameters used for the short radar types 1, 2, 3, and 4 may be found in this test report Appendices 5, 6, 7, and 8 respectively.
5. The EUT met the required detection probability, and therefore complied with the *Statistical Performance Check – Short Pulse Radar Types 1 – 4* test.

**Statistical Performance Check – Short Pulse Radar Types 1 – 4 (continued)****Results: 20 MHz Master – Radar Type 1**

| Radar Type             | Trial # | Radar frequency (MHz) | Detection |
|------------------------|---------|-----------------------|-----------|
|                        |         |                       | Yes / No  |
| 1                      | 1       | 5491.045              | Yes       |
|                        | 2       | 5491.642              | Yes       |
|                        | 3       | 5492.239              | Yes       |
|                        | 4       | 5492.836              | Yes       |
|                        | 5       | 5493.433              | Yes       |
|                        | 6       | 5494.030              | Yes       |
|                        | 7       | 5494.627              | Yes       |
|                        | 8       | 5495.224              | Yes       |
|                        | 9       | 5495.821              | Yes       |
|                        | 10      | 5496.418              | Yes       |
|                        | 11      | 5497.015              | Yes       |
|                        | 12      | 5497.612              | Yes       |
|                        | 13      | 5498.209              | Yes       |
|                        | 14      | 5498.806              | Yes       |
|                        | 15      | 5499.403              | Yes       |
|                        | 16      | 5500.000              | Yes       |
|                        | 17      | 5500.597              | Yes       |
|                        | 18      | 5501.194              | Yes       |
|                        | 19      | 5501.791              | Yes       |
|                        | 20      | 5502.388              | Yes       |
|                        | 21      | 5502.985              | Yes       |
|                        | 22      | 5503.582              | Yes       |
|                        | 23      | 5504.179              | Yes       |
|                        | 24      | 5504.776              | Yes       |
|                        | 25      | 5505.373              | Yes       |
|                        | 26      | 5505.970              | Yes       |
|                        | 27      | 5506.567              | Yes       |
|                        | 28      | 5507.164              | Yes       |
|                        | 29      | 5507.761              | Yes       |
|                        | 30      | 5508.358              | Yes       |
| EUT Test Frequency:    |         | 5500 MHz              |           |
| Detection Probability: |         | 100 %                 |           |

**Statistical Performance Check – Short Pulse Radar Types 1 – 4 (continued)****Results: 20 MHz Master – Radar Type 2**

| Radar Type             | Trial # | Radar frequency (MHz) | Detection |
|------------------------|---------|-----------------------|-----------|
|                        |         |                       | Yes / No  |
| 2                      | 1       | 5491.045              | Yes       |
|                        | 2       | 5491.642              | No        |
|                        | 3       | 5492.239              | Yes       |
|                        | 4       | 5492.836              | Yes       |
|                        | 5       | 5493.433              | Yes       |
|                        | 6       | 5494.030              | Yes       |
|                        | 7       | 5494.627              | Yes       |
|                        | 8       | 5495.224              | Yes       |
|                        | 9       | 5495.821              | Yes       |
|                        | 10      | 5496.418              | No        |
|                        | 11      | 5497.015              | Yes       |
|                        | 12      | 5497.612              | Yes       |
|                        | 13      | 5498.209              | Yes       |
|                        | 14      | 5498.806              | Yes       |
|                        | 15      | 5499.403              | Yes       |
|                        | 16      | 5500.000              | Yes       |
|                        | 17      | 5500.597              | Yes       |
|                        | 18      | 5501.194              | No        |
|                        | 19      | 5501.791              | Yes       |
|                        | 20      | 5502.388              | Yes       |
|                        | 21      | 5502.985              | Yes       |
|                        | 22      | 5503.582              | Yes       |
|                        | 23      | 5504.179              | Yes       |
|                        | 24      | 5504.776              | Yes       |
|                        | 25      | 5505.373              | Yes       |
|                        | 26      | 5505.970              | Yes       |
|                        | 27      | 5506.567              | Yes       |
|                        | 28      | 5507.164              | Yes       |
|                        | 29      | 5507.761              | Yes       |
|                        | 30      | 5508.358              | Yes       |
| EUT Test Frequency:    |         | 5500 MHz              |           |
| Detection Probability: |         | 90 %                  |           |

**Statistical Performance Check – Short Pulse Radar Types 1 – 4 (continued)****Results: 20 MHz Master – Radar Type 3**

| Radar Type             | Trial # | Radar frequency (MHz) | Detection |
|------------------------|---------|-----------------------|-----------|
|                        |         |                       | Yes / No  |
| 3                      | 1       | 5491.045              | No        |
|                        | 2       | 5491.642              | Yes       |
|                        | 3       | 5492.239              | Yes       |
|                        | 4       | 5492.836              | No        |
|                        | 5       | 5493.433              | Yes       |
|                        | 6       | 5494.030              | Yes       |
|                        | 7       | 5494.627              | No        |
|                        | 8       | 5495.224              | No        |
|                        | 9       | 5495.821              | Yes       |
|                        | 10      | 5496.418              | No        |
|                        | 11      | 5497.015              | Yes       |
|                        | 12      | 5497.612              | Yes       |
|                        | 13      | 5498.209              | No        |
|                        | 14      | 5498.806              | Yes       |
|                        | 15      | 5499.403              | Yes       |
|                        | 16      | 5500.000              | Yes       |
|                        | 17      | 5500.597              | Yes       |
|                        | 18      | 5501.194              | Yes       |
|                        | 19      | 5501.791              | Yes       |
|                        | 20      | 5502.388              | Yes       |
|                        | 21      | 5502.985              | No        |
|                        | 22      | 5503.582              | Yes       |
|                        | 23      | 5504.179              | Yes       |
|                        | 24      | 5504.776              | Yes       |
|                        | 25      | 5505.373              | Yes       |
|                        | 26      | 5505.970              | Yes       |
|                        | 27      | 5506.567              | Yes       |
|                        | 28      | 5507.164              | Yes       |
|                        | 29      | 5507.761              | Yes       |
|                        | 30      | 5508.358              | Yes       |
| EUT Test Frequency:    |         | 5500 MHz              |           |
| Detection Probability: |         | 76.7 %                |           |

**Statistical Performance Check – Short Pulse Radar Types 1 – 4 (continued)****Results: 20 MHz Master – Radar Type 4**

| Radar Type             | Trial # | Radar frequency (MHz) | Detection |
|------------------------|---------|-----------------------|-----------|
|                        |         |                       | Yes / No  |
| 4                      | 1       | 5491.045              | Yes       |
|                        | 2       | 5491.642              | Yes       |
|                        | 3       | 5492.239              | No        |
|                        | 4       | 5492.836              | No        |
|                        | 5       | 5493.433              | Yes       |
|                        | 6       | 5494.030              | Yes       |
|                        | 7       | 5494.627              | Yes       |
|                        | 8       | 5495.224              | Yes       |
|                        | 9       | 5495.821              | Yes       |
|                        | 10      | 5496.418              | Yes       |
|                        | 11      | 5497.015              | Yes       |
|                        | 12      | 5497.612              | No        |
|                        | 13      | 5498.209              | Yes       |
|                        | 14      | 5498.806              | Yes       |
|                        | 15      | 5499.403              | Yes       |
|                        | 16      | 5500.000              | Yes       |
|                        | 17      | 5500.597              | No        |
|                        | 18      | 5501.194              | Yes       |
|                        | 19      | 5501.791              | Yes       |
|                        | 20      | 5502.388              | Yes       |
|                        | 21      | 5502.985              | Yes       |
|                        | 22      | 5503.582              | Yes       |
|                        | 23      | 5504.179              | Yes       |
|                        | 24      | 5504.776              | Yes       |
|                        | 25      | 5505.373              | Yes       |
|                        | 26      | 5505.970              | Yes       |
|                        | 27      | 5506.567              | Yes       |
|                        | 28      | 5507.164              | Yes       |
|                        | 29      | 5507.761              | Yes       |
|                        | 30      | 5508.358              | No        |
| EUT Test Frequency:    |         | 5500 MHz              |           |
| Detection Probability: |         | 83.3 %                |           |

**Statistical Performance Check – Short Pulse Radar Types 1 – 4 (continued)****Results: 40 MHz Master – Radar Type 1**

| Radar Type             | Trial # | Radar frequency (MHz) | Detection |
|------------------------|---------|-----------------------|-----------|
|                        |         |                       | Yes / No  |
| 1                      | 1       | 5491.310              | Yes       |
|                        | 2       | 5492.556              | No        |
|                        | 3       | 5493.802              | Yes       |
|                        | 4       | 5495.048              | Yes       |
|                        | 5       | 5496.294              | Yes       |
|                        | 6       | 5497.540              | No        |
|                        | 7       | 5498.786              | Yes       |
|                        | 8       | 5500.032              | Yes       |
|                        | 9       | 5501.278              | No        |
|                        | 10      | 5502.524              | Yes       |
|                        | 11      | 5503.770              | Yes       |
|                        | 12      | 5505.016              | Yes       |
|                        | 13      | 5506.262              | Yes       |
|                        | 14      | 5507.508              | Yes       |
|                        | 15      | 5508.754              | Yes       |
|                        | 16      | 5510.000              | Yes       |
|                        | 17      | 5511.246              | Yes       |
|                        | 18      | 5512.492              | Yes       |
|                        | 19      | 5513.738              | Yes       |
|                        | 20      | 5514.984              | Yes       |
|                        | 21      | 5516.230              | Yes       |
|                        | 22      | 5517.476              | Yes       |
|                        | 23      | 5518.722              | Yes       |
|                        | 24      | 5519.968              | Yes       |
|                        | 25      | 5521.214              | Yes       |
|                        | 26      | 5522.460              | Yes       |
|                        | 27      | 5523.706              | Yes       |
|                        | 28      | 5524.952              | Yes       |
|                        | 29      | 5526.198              | Yes       |
|                        | 30      | 5527.444              | Yes       |
| EUT Test Frequency:    |         | 5510 MHz              |           |
| Detection Probability: |         | 90 %                  |           |

**Statistical Performance Check – Short Pulse Radar Types 1 – 4 (continued)****Results: 40 MHz Master – Radar Type 2**

| Radar Type             | Trial # | Radar frequency (MHz) | Detection |
|------------------------|---------|-----------------------|-----------|
|                        |         |                       | Yes / No  |
| 2                      | 1       | 5491.310              | Yes       |
|                        | 2       | 5492.556              | Yes       |
|                        | 3       | 5493.802              | Yes       |
|                        | 4       | 5495.048              | No        |
|                        | 5       | 5496.294              | Yes       |
|                        | 6       | 5497.540              | Yes       |
|                        | 7       | 5498.786              | Yes       |
|                        | 8       | 5500.032              | No        |
|                        | 9       | 5501.278              | No        |
|                        | 10      | 5502.524              | No        |
|                        | 11      | 5503.770              | Yes       |
|                        | 12      | 5505.016              | Yes       |
|                        | 13      | 5506.262              | No        |
|                        | 14      | 5507.508              | Yes       |
|                        | 15      | 5508.754              | Yes       |
|                        | 16      | 5510.000              | Yes       |
|                        | 17      | 5511.246              | Yes       |
|                        | 18      | 5512.492              | Yes       |
|                        | 19      | 5513.738              | No        |
|                        | 20      | 5514.984              | Yes       |
|                        | 21      | 5516.230              | No        |
|                        | 22      | 5517.476              | Yes       |
|                        | 23      | 5518.722              | Yes       |
|                        | 24      | 5519.968              | Yes       |
|                        | 25      | 5521.214              | Yes       |
|                        | 26      | 5522.460              | Yes       |
|                        | 27      | 5523.706              | Yes       |
|                        | 28      | 5524.952              | Yes       |
|                        | 29      | 5526.198              | Yes       |
|                        | 30      | 5527.444              | Yes       |
| EUT Test Frequency:    |         | 5510 MHz              |           |
| Detection Probability: |         | 76.7 %                |           |

**Statistical Performance Check – Short Pulse Radar Types 1 – 4 (continued)****Results: 40 MHz Master – Radar Type 3**

| Radar Type             | Trial # | Radar frequency (MHz) | Detection |
|------------------------|---------|-----------------------|-----------|
|                        |         |                       | Yes / No  |
| 3                      | 1       | 5491.310              | Yes       |
|                        | 2       | 5492.556              | Yes       |
|                        | 3       | 5493.802              | Yes       |
|                        | 4       | 5495.048              | Yes       |
|                        | 5       | 5496.294              | Yes       |
|                        | 6       | 5497.540              | Yes       |
|                        | 7       | 5498.786              | Yes       |
|                        | 8       | 5500.032              | Yes       |
|                        | 9       | 5501.278              | Yes       |
|                        | 10      | 5502.524              | Yes       |
|                        | 11      | 5503.770              | No        |
|                        | 12      | 5505.016              | Yes       |
|                        | 13      | 5506.262              | Yes       |
|                        | 14      | 5507.508              | Yes       |
|                        | 15      | 5508.754              | Yes       |
|                        | 16      | 5510.000              | Yes       |
|                        | 17      | 5511.246              | Yes       |
|                        | 18      | 5512.492              | Yes       |
|                        | 19      | 5513.738              | Yes       |
|                        | 20      | 5514.984              | Yes       |
|                        | 21      | 5516.230              | Yes       |
|                        | 22      | 5517.476              | Yes       |
|                        | 23      | 5518.722              | Yes       |
|                        | 24      | 5519.968              | Yes       |
|                        | 25      | 5521.214              | Yes       |
|                        | 26      | 5522.460              | Yes       |
|                        | 27      | 5523.706              | Yes       |
|                        | 28      | 5524.952              | Yes       |
|                        | 29      | 5526.198              | Yes       |
|                        | 30      | 5527.444              | Yes       |
| EUT Test Frequency:    |         | 5510 MHz              |           |
| Detection Probability: |         | 96.7 %                |           |

**Statistical Performance Check – Short Pulse Radar Types 1 – 4 (continued)****Results: 40 MHz Master – Radar Type 4**

| Radar Type             | Trial # | Radar frequency (MHz) | Detection |
|------------------------|---------|-----------------------|-----------|
|                        |         |                       | Yes / No  |
| 4                      | 1       | 5491.310              | No        |
|                        | 2       | 5492.556              | Yes       |
|                        | 3       | 5493.802              | Yes       |
|                        | 4       | 5495.048              | Yes       |
|                        | 5       | 5496.294              | Yes       |
|                        | 6       | 5497.540              | Yes       |
|                        | 7       | 5498.786              | No        |
|                        | 8       | 5500.032              | Yes       |
|                        | 9       | 5501.278              | Yes       |
|                        | 10      | 5502.524              | No        |
|                        | 11      | 5503.770              | Yes       |
|                        | 12      | 5505.016              | Yes       |
|                        | 13      | 5506.262              | Yes       |
|                        | 14      | 5507.508              | Yes       |
|                        | 15      | 5508.754              | Yes       |
|                        | 16      | 5510.000              | Yes       |
|                        | 17      | 5511.246              | Yes       |
|                        | 18      | 5512.492              | Yes       |
|                        | 19      | 5513.738              | Yes       |
|                        | 20      | 5514.984              | No        |
|                        | 21      | 5516.230              | No        |
|                        | 22      | 5517.476              | Yes       |
|                        | 23      | 5518.722              | No        |
|                        | 24      | 5519.968              | Yes       |
|                        | 25      | 5521.214              | No        |
|                        | 26      | 5522.460              | Yes       |
|                        | 27      | 5523.706              | Yes       |
|                        | 28      | 5524.952              | Yes       |
|                        | 29      | 5526.198              | Yes       |
|                        | 30      | 5527.444              | Yes       |
| EUT Test Frequency:    |         | 5510 MHz              |           |
| Detection Probability: |         | 76.7 %                |           |

**Statistical Performance Check – Short Pulse Radar Types 1 – 4 (continued)****Results: Aggregate Percentage of Successful Detection**

| Radar Type | Channel Bandwidth |        |
|------------|-------------------|--------|
|            | 20 MHz            | 40 MHz |
| Type 1     | 100.0 %           | 90.0 % |
| Type 2     | 90.0 %            | 76.7 % |
| Type 3     | 76.7 %            | 96.7 % |
| Type 4     | 83.3 %            | 76.7 % |
| Aggregate  | 87.5 %            | 85.0 % |

**Limits:****KDB 905462 D02 Table 5 – Short Pulse Radar Test Waveforms**

| Radar Type                  | Pulse Width (μsec) | PRI (μsec)                                                                                                                                                     | Number of Pulses                                                                                                          | Minimum Percentage of Successful Detection | Minimum Number of Trials |
|-----------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------|
| 1                           | 1                  | Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a.                                                                     | $\text{Roundup} \left\{ \left( \frac{1}{360} \right) \times \left( \frac{19 \times 10^6}{PRI_{\mu sec}} \right) \right\}$ | 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                      |

**5.2.8. Statistical Performance Check – Long Pulse Radar Type 5****Test Summary:**

|                                   |                 |                   |                  |
|-----------------------------------|-----------------|-------------------|------------------|
| <b>Test Engineer:</b>             | Georgios Vrezas | <b>Test Date:</b> | 24 November 2015 |
| <b>Test Sample Serial Number:</b> | VPE7129190      |                   |                  |

|                          |                                                |
|--------------------------|------------------------------------------------|
| <b>FCC Reference:</b>    | Part 15.407(h)(2)                              |
| <b>Test Method Used:</b> | KDB 905462 D02 Section 7.8.4.2 and Notes below |

**Environmental Conditions:**

|                               |    |
|-------------------------------|----|
| <b>Temperature (°C):</b>      | 24 |
| <b>Relative Humidity (%):</b> | 31 |

**Notes:**

1. In accordance with KDB 905462 D02 Table 2, the Statistical Performance Check test was performed on all supported channel bandwidths and frequencies selected within the radar detection bandwidth.
2. UDP test data was streamed from the Master to the Client device using iPerf3 bandwidth testing tool. This was set to 15 Mbit/s and 30 Mbit/s throughput rate for the 20 MHz and 40 MHz channels respectively. The channel loading was measured as 26.3% for 20 MHz operation and 24.2% for 40 MHz. This therefore met the channel loading requirement of >17% in KDB 905462 D02 Section 7.7(c).
3. Tests were performed using the radar detection threshold calculated in Section 4.2 of this test report.
4. Parameters used for the long radar type 5 can be found in Appendix 9 of this test report.
5. The centre frequency for each of the 30 trials of the Bin 5 radar, was randomly selected within 80% of the Occupied Bandwidth. See section 5.2.1 for occupied bandwidth measurements.
6. The EUT met the required detection probability, and therefore complied with the *Statistical Performance Check – Long Pulse Radar Type 5* test.

**Statistical Performance Check – Long Pulse Radar Type 5 (continued)****Results: 20 MHz Master – Radar Type 5**

| Radar Type             | Trial # | Radar frequency (MHz) | Detection |
|------------------------|---------|-----------------------|-----------|
|                        |         |                       | Yes / No  |
| 5                      | 1       | 5492.850              | Yes       |
|                        | 2       | 5496.982              | Yes       |
|                        | 3       | 5503.901              | Yes       |
|                        | 4       | 5503.180              | Yes       |
|                        | 5       | 5500.379              | Yes       |
|                        | 6       | 5493.748              | Yes       |
|                        | 7       | 5496.664              | Yes       |
|                        | 8       | 5499.701              | Yes       |
|                        | 9       | 5496.349              | Yes       |
|                        | 10      | 5499.062              | Yes       |
|                        | 11      | 5499.743              | Yes       |
|                        | 12      | 5498.074              | Yes       |
|                        | 13      | 5500.949              | Yes       |
|                        | 14      | 5498.223              | Yes       |
|                        | 15      | 5505.171              | Yes       |
|                        | 16      | 5506.385              | Yes       |
|                        | 17      | 5505.262              | Yes       |
|                        | 18      | 5495.058              | Yes       |
|                        | 19      | 5497.812              | Yes       |
|                        | 20      | 5498.574              | Yes       |
|                        | 21      | 5499.176              | Yes       |
|                        | 22      | 5498.790              | Yes       |
|                        | 23      | 5505.655              | Yes       |
|                        | 24      | 5501.375              | Yes       |
|                        | 25      | 5497.036              | Yes       |
|                        | 26      | 5495.364              | Yes       |
|                        | 27      | 5506.513              | Yes       |
|                        | 28      | 5497.926              | Yes       |
|                        | 29      | 5501.916              | Yes       |
|                        | 30      | 5506.096              | Yes       |
| EUT Test Frequency:    |         | 5500 MHz              |           |
| Detection Probability: |         | 100%                  |           |

**Statistical Performance Check – Long Pulse Radar Type 5 (continued)****Results: 40 MHz Master – Radar Type 5**

| Radar Type             | Trial # | Radar frequency (MHz) | Detection |
|------------------------|---------|-----------------------|-----------|
|                        |         |                       | Yes / No  |
| 5                      | 1       | 5505.757              | Yes       |
|                        | 2       | 5518.334              | Yes       |
|                        | 3       | 5523.302              | Yes       |
|                        | 4       | 5498.093              | Yes       |
|                        | 5       | 5501.246              | Yes       |
|                        | 6       | 5499.729              | Yes       |
|                        | 7       | 5507.897              | Yes       |
|                        | 8       | 5512.349              | Yes       |
|                        | 9       | 5510.179              | Yes       |
|                        | 10      | 5505.606              | Yes       |
|                        | 11      | 5508.983              | Yes       |
|                        | 12      | 5521.707              | Yes       |
|                        | 13      | 5496.816              | Yes       |
|                        | 14      | 5504.869              | Yes       |
|                        | 15      | 5519.664              | Yes       |
|                        | 16      | 5501.782              | Yes       |
|                        | 17      | 5495.557              | Yes       |
|                        | 18      | 5500.496              | Yes       |
|                        | 19      | 5507.169              | Yes       |
|                        | 20      | 5509.210              | Yes       |
|                        | 21      | 5502.382              | Yes       |
|                        | 22      | 5521.869              | Yes       |
|                        | 23      | 5512.417              | No        |
|                        | 24      | 5517.509              | Yes       |
|                        | 25      | 5523.079              | Yes       |
|                        | 26      | 5519.945              | Yes       |
|                        | 27      | 5510.858              | Yes       |
|                        | 28      | 5503.012              | Yes       |
|                        | 29      | 5508.652              | Yes       |
|                        | 30      | 5517.687              | Yes       |
| EUT Test Frequency:    |         | 5510 MHz              |           |
| Detection Probability: |         | 96.7%                 |           |

**Statistical Performance Check – Long Pulse Radar Type 5 (continued)****Limits:****KDB 905462 D02 Table 6 – Long Pulse Radar Test Waveform**

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

**5.2.9. Statistical Performance Check – Frequency Hopping Radar Type 6****Test Summary:**

|                                   |                 |                   |                  |
|-----------------------------------|-----------------|-------------------|------------------|
| <b>Test Engineer:</b>             | Georgios Vrezas | <b>Test Date:</b> | 24 November 2015 |
| <b>Test Sample Serial Number:</b> | VPE7129190      |                   |                  |

|                          |                                                |
|--------------------------|------------------------------------------------|
| <b>FCC Reference:</b>    | Part 15.407(h)(2)                              |
| <b>Test Method Used:</b> | KDB 905462 D02 Section 7.8.4.3 and Notes below |

**Environmental Conditions:**

|                               |    |
|-------------------------------|----|
| <b>Temperature (°C):</b>      | 24 |
| <b>Relative Humidity (%):</b> | 31 |

**Notes:**

1. In accordance with KDB 905462 D02 Table 2, the Statistical Performance Check test was performed on all supported channel bandwidths and frequencies selected within the radar detection bandwidth.
2. UDP test data was streamed from the Master to the Client device using iPerf3 bandwidth testing tool. This was set to 15 Mbit/s and 30 Mbit/s throughput rate for the 20 MHz and 40 MHz channels respectively. The channel loading was measured as 26.3% for 20 MHz operation and 24.2% for 40 MHz. This therefore met the channel loading requirement of >17% in KDB 905462 D02 Section 7.7(c).
3. Tests were performed using the radar detection threshold calculated in Section 4.2 of this test report.
4. Some of the randomly generated hopping radars included no hops within the detection bandwidth of the EUT. In this case additional radars, which would produce at least one hop within the operating bandwidth of the EUT, were generated and used instead.
5. The EUT met the required detection probability, and therefore complied with the *Statistical Performance Check – Frequency Hopping Radar Type 6* test.

**Statistical Performance Check – Frequency Hopping Radar Type 6 (continued)****Results: 20 MHz Master – Radar Type 6**

| Radar Type             | Trial # | Detection | Trial # | Detection |
|------------------------|---------|-----------|---------|-----------|
|                        |         | Yes / No  |         | Yes / No  |
| 6                      | 1       | Yes       | 16      | Yes       |
|                        | 2       | Yes       | 17      | Yes       |
|                        | 3       | Yes       | 18      | Yes       |
|                        | 4       | Yes       | 19      | Yes       |
|                        | 5       | Yes       | 20      | Yes       |
|                        | 6       | Yes       | 21      | Yes       |
|                        | 7       | Yes       | 22      | Yes       |
|                        | 8       | Yes       | 23      | Yes       |
|                        | 9       | Yes       | 24      | Yes       |
|                        | 10      | Yes       | 25      | Yes       |
|                        | 11      | Yes       | 26      | Yes       |
|                        | 12      | Yes       | 27      | Yes       |
|                        | 13      | Yes       | 28      | Yes       |
|                        | 14      | Yes       | 29      | Yes       |
|                        | 15      | Yes       | 30      | Yes       |
| EUT Test Frequency:    |         | 5500 MHz  |         |           |
| Radar Frequency:       |         | Hopping   |         |           |
| Detection Probability: |         | 100%      |         |           |

**Results: 40 MHz Master – Radar Type 6**

| Radar Type             | Trial # | Detection | Trial # | Detection |
|------------------------|---------|-----------|---------|-----------|
|                        |         | Yes / No  |         | Yes / No  |
| 6                      | 1       | Yes       | 16      | Yes       |
|                        | 2       | Yes       | 17      | Yes       |
|                        | 3       | Yes       | 18      | Yes       |
|                        | 4       | Yes       | 19      | No        |
|                        | 5       | Yes       | 20      | Yes       |
|                        | 6       | Yes       | 21      | Yes       |
|                        | 7       | Yes       | 22      | Yes       |
|                        | 8       | Yes       | 23      | Yes       |
|                        | 9       | Yes       | 24      | Yes       |
|                        | 10      | Yes       | 25      | Yes       |
|                        | 11      | Yes       | 26      | Yes       |
|                        | 12      | Yes       | 27      | Yes       |
|                        | 13      | Yes       | 28      | Yes       |
|                        | 14      | No        | 29      | Yes       |
|                        | 15      | Yes       | 30      | Yes       |
| EUT Test Frequency:    |         | 5510 MHz  |         |           |
| Radar Frequency:       |         | Hopping   |         |           |
| Detection Probability: |         | 93.3%     |         |           |

**Statistical Performance Check – Frequency Hopping Radar Type 6 (continued)****Limits:****KDB 905462 D02 Table 7 – Frequency Hopping Radar Test Waveform**

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

## **6. Measurement Uncertainty**

No measurement or test can ever be perfect and the imperfections give rise to error of measurement in the results. Consequently the result of a measurement is only an approximation to the value of the measurand (the specific quantity subject to measurement) and is only complete when accompanied by a statement of the uncertainty of the approximation.

The expression of uncertainty of a measurement result allows realistic comparison of results with reference values and limits given in specifications and standards.

The uncertainty of the result may need to be taken into account when interpreting the measurement results.

The reported expanded uncertainties below are based on a standard uncertainty multiplied by an appropriate coverage factor such that a confidence level of approximately 95% is maintained. For the purposes of this document "approximately" is interpreted as meaning "effectively" or "for most practical purposes".

| <b>Measurement Type</b>     | <b>Confidence Level (%)</b> | <b>Calculated Uncertainty</b> |
|-----------------------------|-----------------------------|-------------------------------|
| DFS CAC Plot Timing         | 95%                         | $\pm 918$ ms                  |
| DFS Channel Shutdown Timing | 95%                         | $\pm 450$ $\mu$ s             |
| DFS Non-Occupancy Timing    | 95%                         | $\pm 79.25$ ms                |
| DFS Radar Amplitude         | 95%                         | $\pm 2.17$ dB                 |

The methods used to calculate the above uncertainties are in line with those recommended within the various measurement specifications. Where measurement specifications do not include guidelines for the evaluation of measurement uncertainty the published guidance of the appropriate accreditation body is followed.

## **7. Report Revision History**

| Version Number | Revision Details |        |                                                        |
|----------------|------------------|--------|--------------------------------------------------------|
|                | Page No(s)       | Clause | Details                                                |
| 1.0            | -                | -      | Initial Version                                        |
| 2.0            | -                | -      | Model Name updated<br>Section 3.2 added                |
| 3.0            | -                | -      | Model name updated,<br>Sections 3.1, 3.2 & 3.7 updated |

## **Appendix 1. Test Equipment Used**

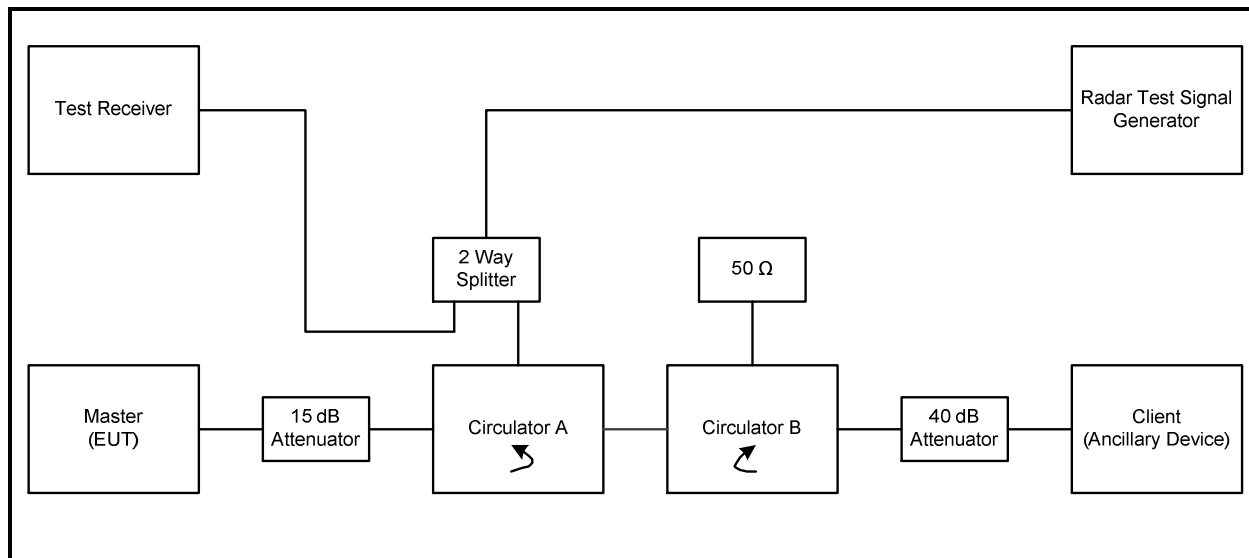
| <b>Asset No.</b> | <b>Instrument</b>  | <b>Manufacturer</b>         | <b>Type No.</b>    | <b>Serial No.</b> | <b>Date Calibration Due</b> | <b>Cal. Interval (Months)</b> |
|------------------|--------------------|-----------------------------|--------------------|-------------------|-----------------------------|-------------------------------|
| M1659            | Thermohygrometer   | JM Handelspunkt             | 30.5015.13         | None stated       | 23 Apr 2016                 | 12                            |
| M1760            | Thermohygrometer   | None stated                 | HTC-1              | None stated       | 14 Apr 2016                 | 12                            |
| M1631            | DFS Test System    | Aeroflex                    | PXI 3000           | 300110/291        | 09 Jul 2017                 | 24                            |
| M1886            | Test Receiver      | Rohde & Schwarz             | ESU26              | 100554            | 21 May 2016                 | 12                            |
| M1585            | Network Analyser   | Agilent                     | E5071C             | MY46110256        | 30 Jul 2016                 | 24                            |
| A030             | Step Attenuator    | Narda                       | 445-69             | 01544             | Calibrated before use       | -                             |
| A090             | Step Attenuator    | Narda                       | 743-60             | 01057             | Calibrated before use       | -                             |
| A2119            | Power Splitter     | Mini-Circuits               | ZN2PD-63-S+        | SUU12701203       | Calibrated before use       | -                             |
| A2182            | Coaxial Circulator | AtlanTecRF                  | ACC-20130-SF-SF-SF | 120409231         | Calibrated before use       | -                             |
| A2183            | Coaxial Circulator | AtlanTecRF                  | ACC-20130-SF-SF-SF | 120409232         | Calibrated before use       | -                             |
| A1317            | 50Ω Termination    | Narda                       | 376BNM             | 0103              | Calibrated before use       | -                             |
| A2494            | 50Ω Termination    | Narda                       | TA06W5-F           | 082013#2          | Calibrated before use       | -                             |
| M122             | Multimeter         | Fluke                       | 77                 | 64910017          | 22 Apr 2016                 | 12                            |
| S021             | DC Power Supply    | Thurlby Thandar Instruments | CPX200             | 061034            | Calibrated before use       | -                             |

**NB** In accordance with UKAS requirements all the measurement equipment is on a calibration schedule.

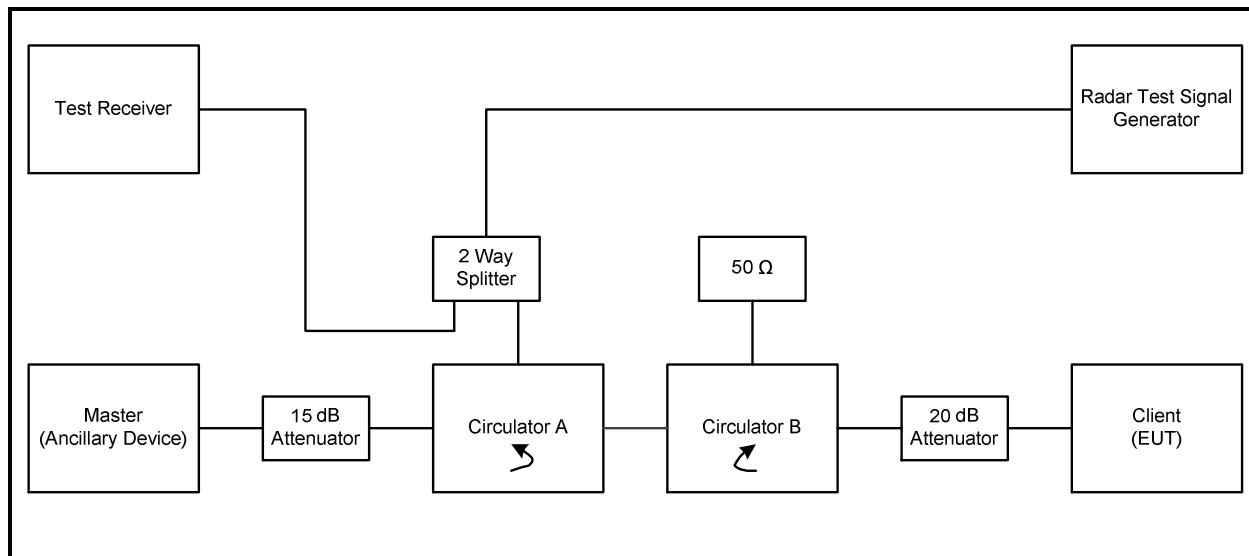
## **Appendix 2. Monitoring Methods Diagrams**

All tests were performed as conducted measurements using the setups as shown below. The detecting device always receives the radar via a direct (non-isolated) port of any circulator or splitter to ensure impedance variations do not affect the radar amplitude in accordance with KDB 905462 D02 Section 7.2, point (2).

### **Setup Diagram – EUT as Master with Radar Injection at Master**



Note: Circulator A directs the radar pulse towards the EUT (Master). Circulator B provides the same transmit path loss in both directions between the Master and Client devices. The EUT will appear larger than the ancillary device, and smaller than the radar at the Spectrum Analyser. The radar will be larger at the EUT than at the ancillary device. For some tests an additional 10 dB attenuator was added between the 2-way splitter and circulator A, and the calibration adjusted, to change the relative radar level on the analyser.

**Setup Diagram – EUT as Client, Radar Injection at Master**

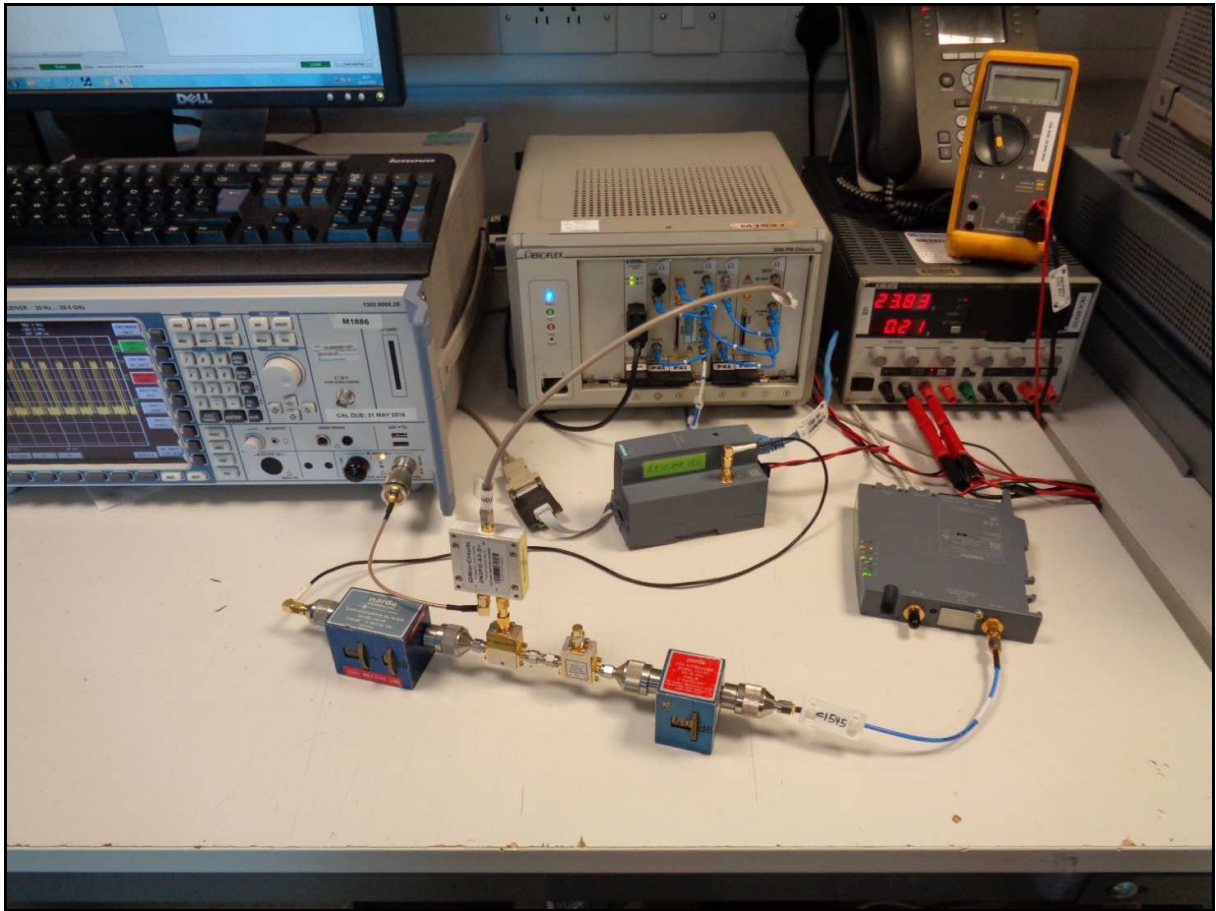
Note: Similarly to the set-up above, circulator A again directs the radar towards the radar detecting device. Circulator B provides the same transmit path loss in both directions between the Master and Client devices whilst also attenuating any radar heading in the direction of the EUT. Due to the different attenuation settings the EUT (Client) will appear larger than the Master device, and smaller than the radar at the Spectrum Analyser. The radar level is recalibrated to account for the different attenuation settings in the radar path.

### **Appendix 3. Radar Type 1-6 Calibration and Verification Data**

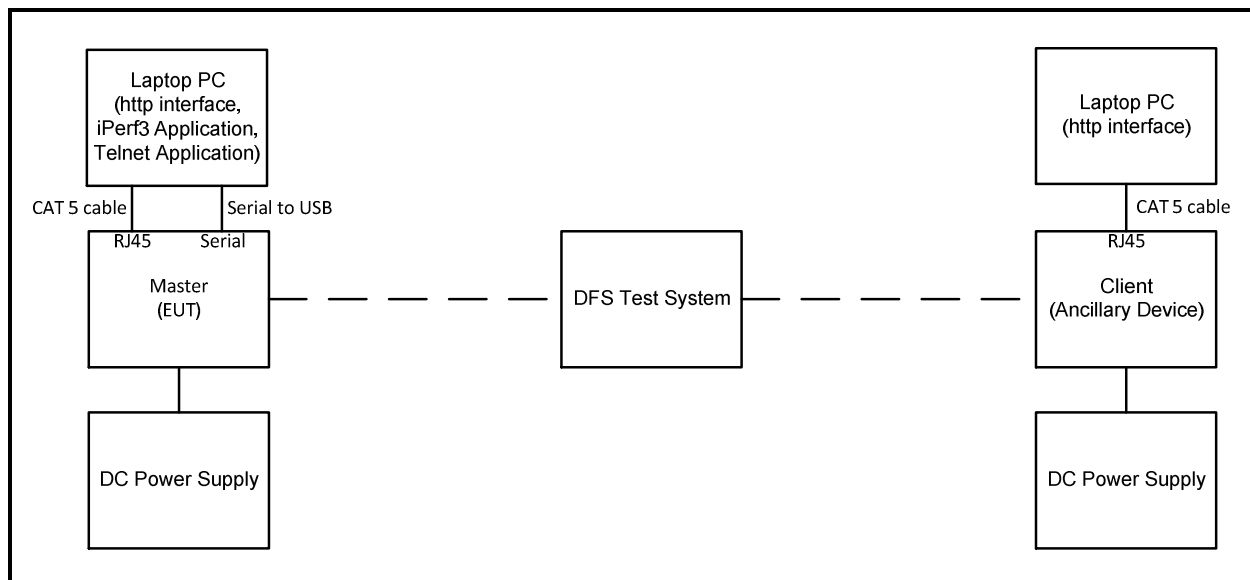
All radar types were generated and produced by an Aeroflex DFS test system. The radar pulse generation of this system has previously been verified by the FCC (see Appendix 4 of this test report).

The radar amplitude was calibrated using the setup diagram shown below. The spectrum analyser was replaced by a 50Ω load. The EUT was replaced by a spectrum analyser. The Aeroflex DFS test system was then set to transmit a CW signal used to calibrate the radar level. The output level was adjusted to give the correct level into the EUT, as calculated in Section 4.2 of this report, before the tests were performed.

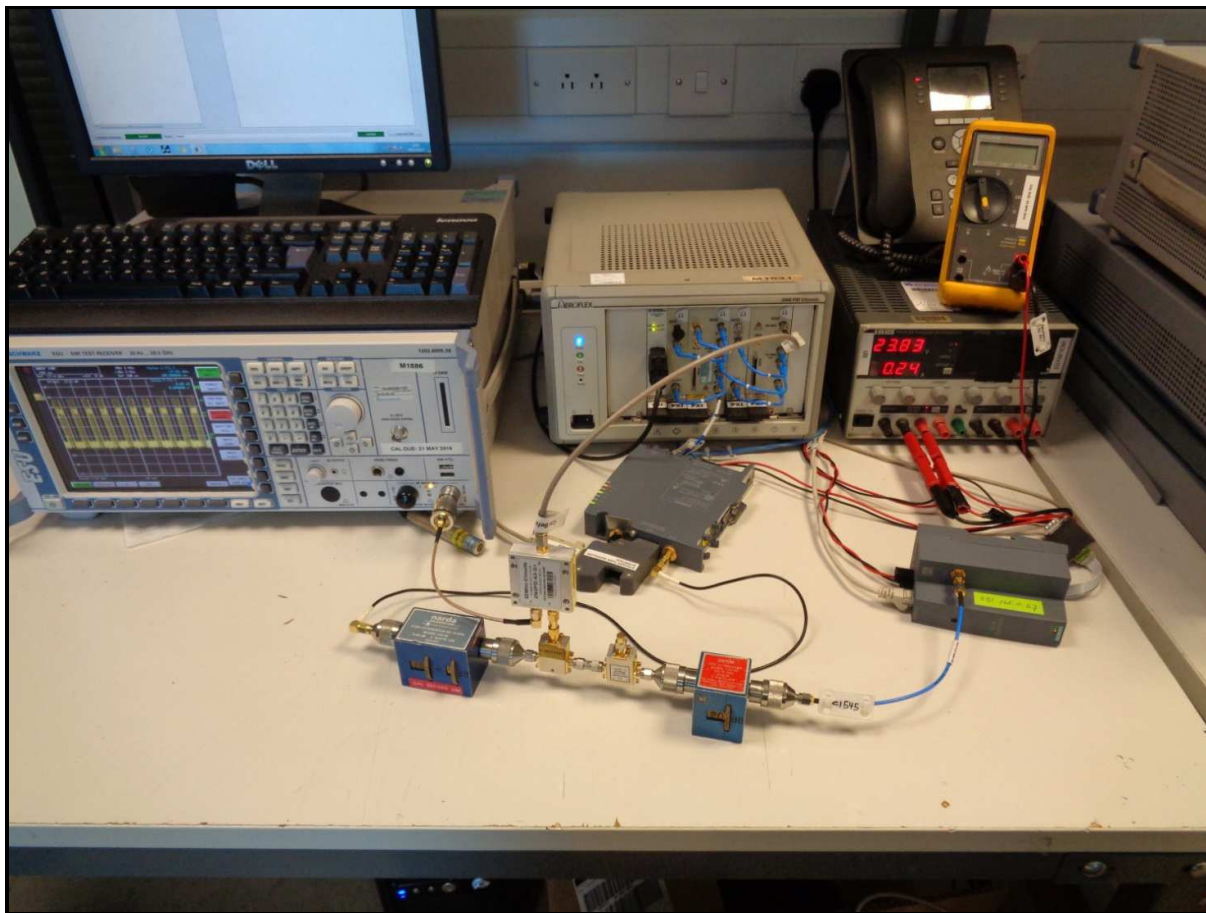
An additional check was then made using the above calibrated level and a 1 μsec pulse of a type 0 radar. Maximum spectrum analyser RBW/VBW setting was used for this to avoid pulse desensitisation effects of the very short burst time. This level was then used for all radar types during testing.

**Equipment Setup Photograph – Conducted Method**

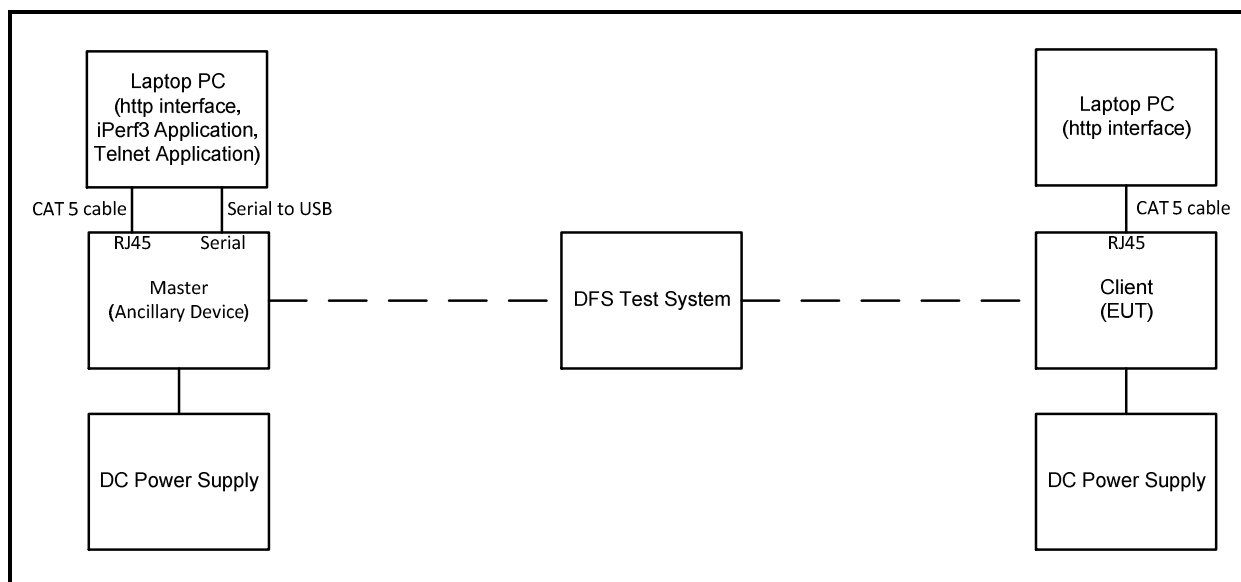
Test set-up photo showing EUT as Master with Radar Injection at Master



Test set-up block diagram showing EUT as Master with Radar Injection at Master

**Equipment Setup Photograph – Conducted Method (continued)**

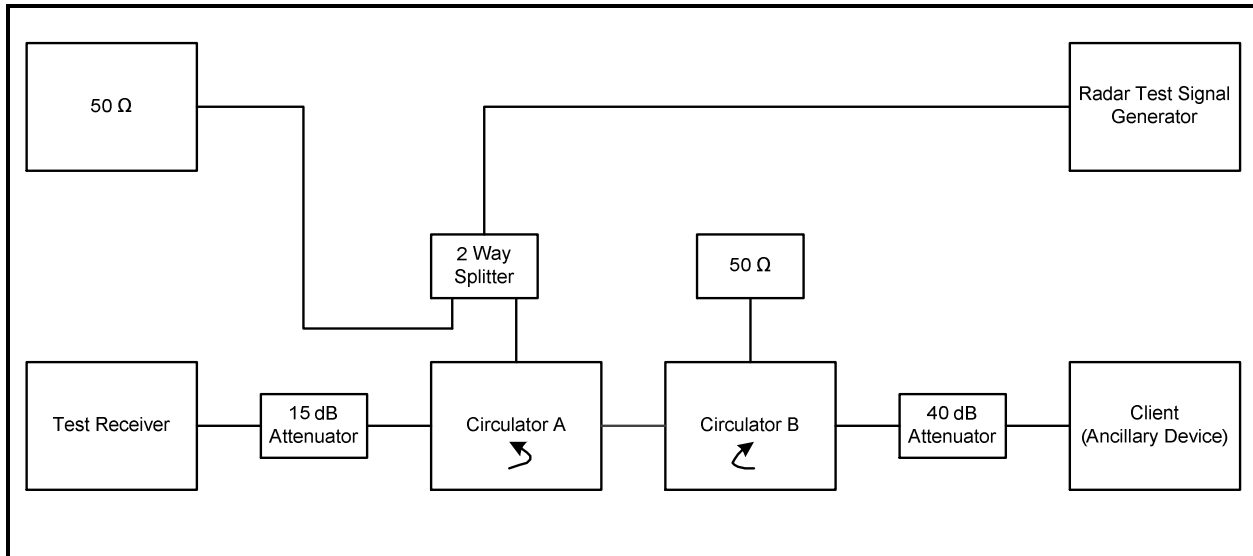
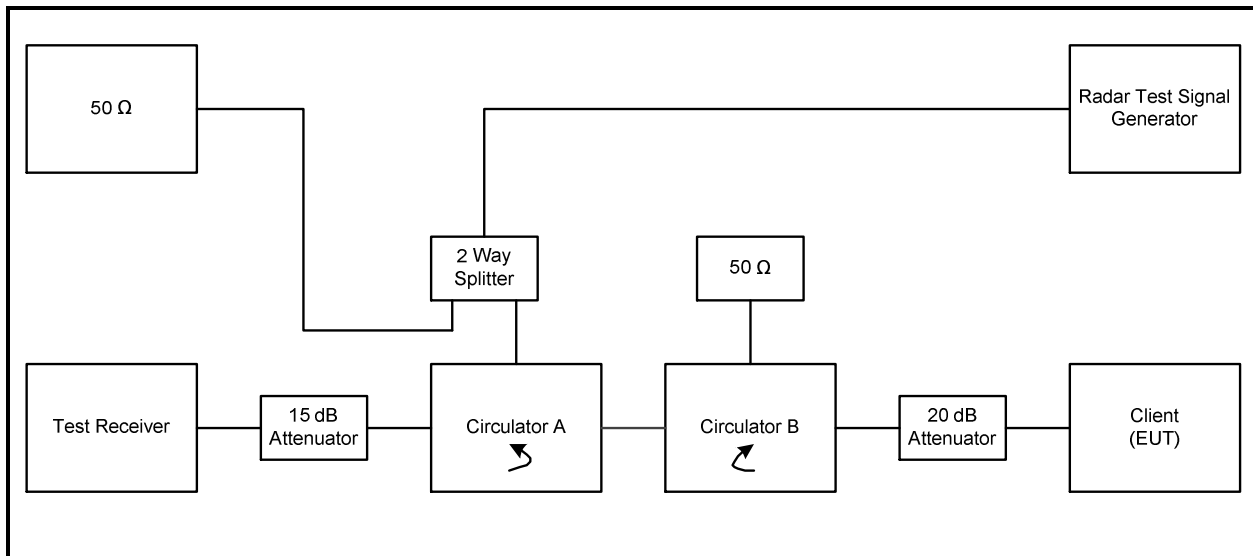
Test set-up photo showing EUT as Client with Radar Injection at Master



Test set-up block diagram showing EUT as Client with Radar Injection at Master

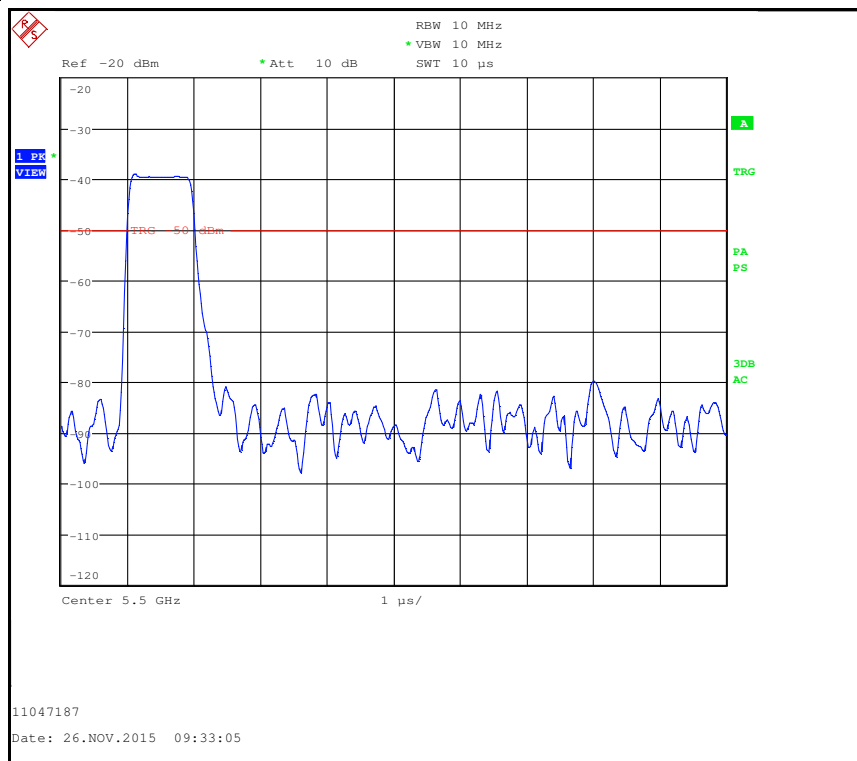
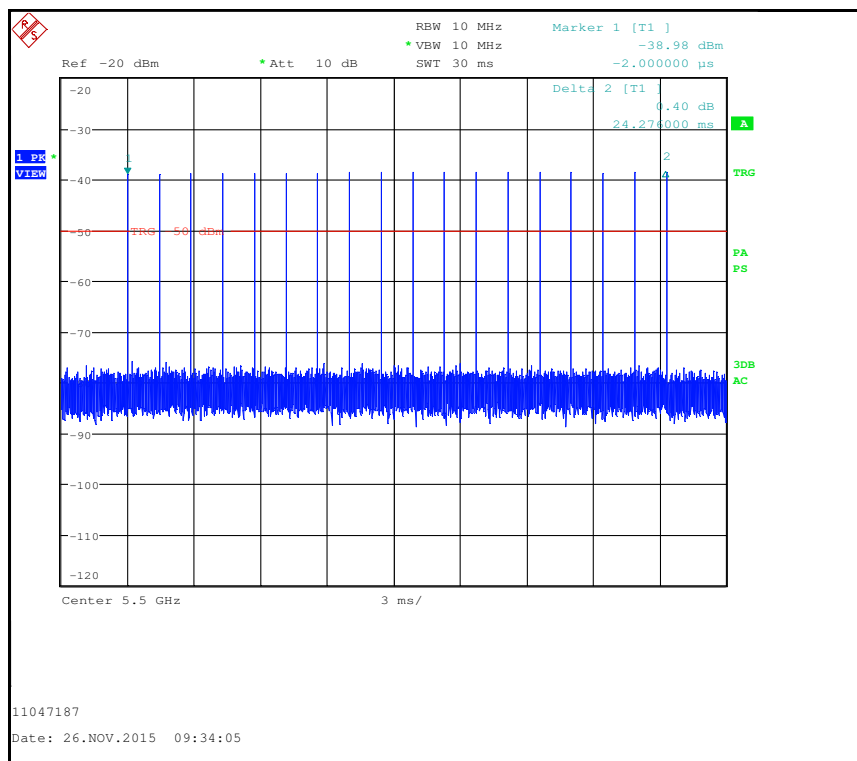
**Equipment Setup for Calibration Block Diagram – Conducted Method**

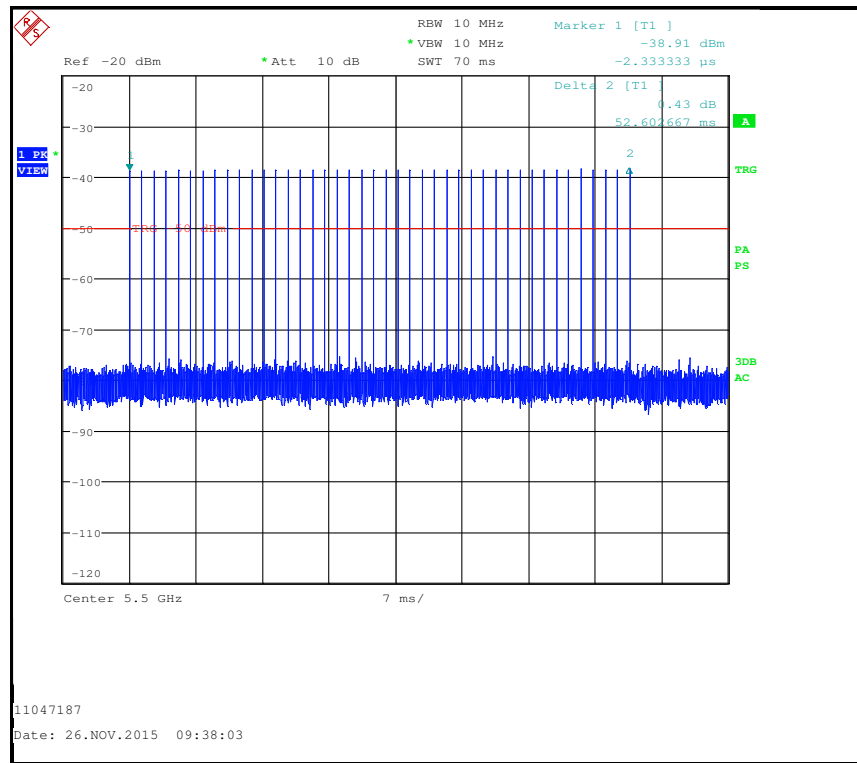
Calibration was performed using the setups as shown below.

**EUT as Master with Radar Injection at Master****EUT as Client with Radar Injection at Master**

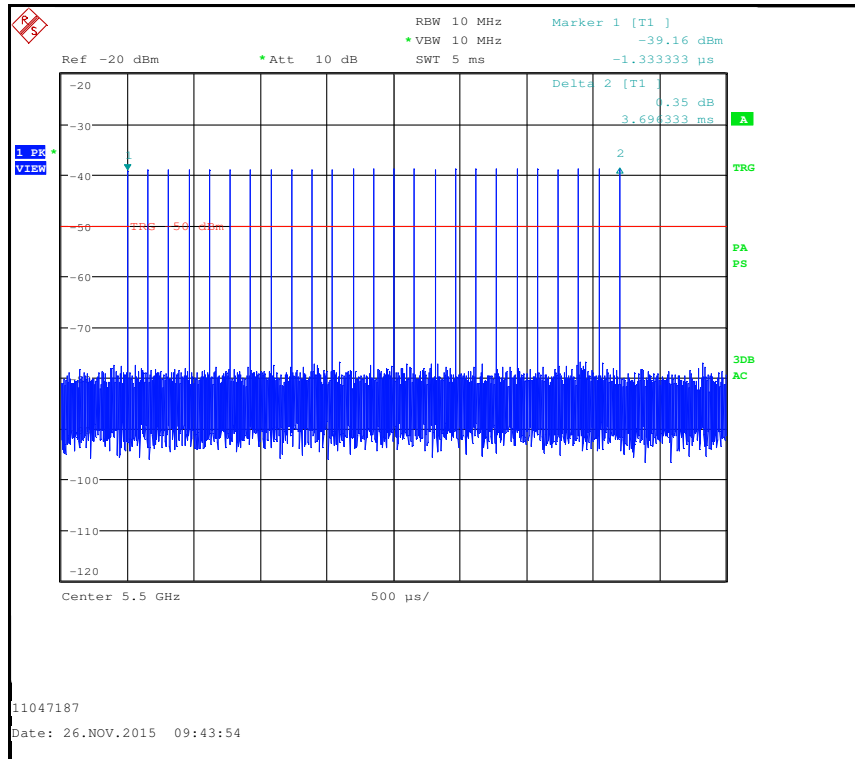
**Radar Verification**

The test system and its waveform generation has been validated by the FCC as an 'approved' device (see Appendix 4 of this test report), therefore full analysis of each radar is not necessary. However, below are sample plots for each of the radar types. Note the full timing plots of all the pulses in the waveform may give slightly inaccurate amplitudes. They are therefore accurate only as timing plots for an example radar overview.

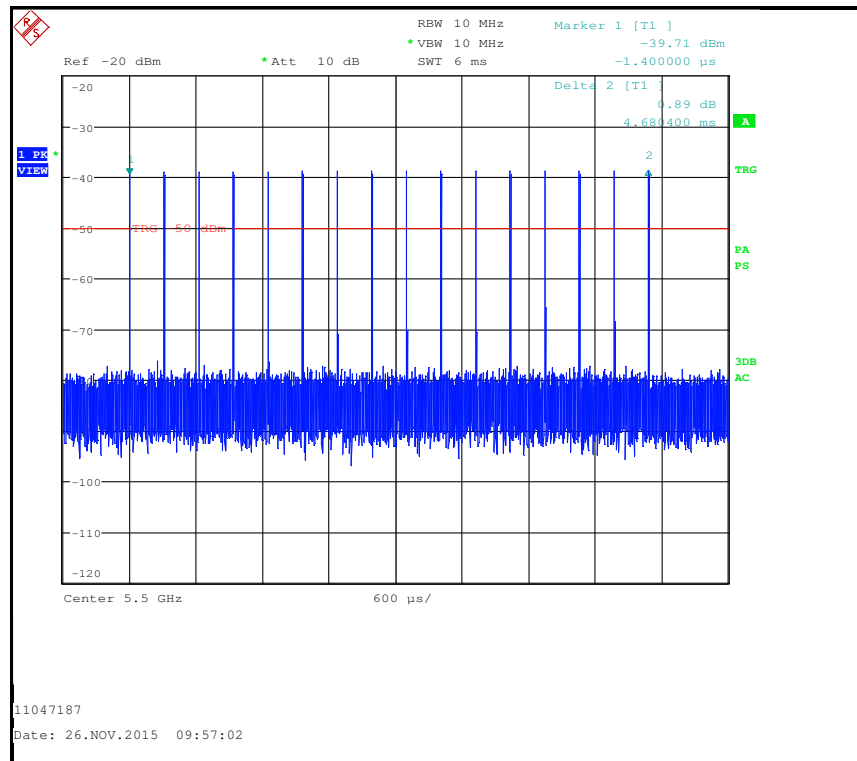
**Radar Type 0**Radar Type 0 – single 1  $\mu$ sec pulseRadar Type 0 – full 18 pulse waveform

**Radar Type 1**

Radar Type 1 – 1  $\mu$ sec pulse width, 1283  $\mu$ sec PRI, 42 pulses

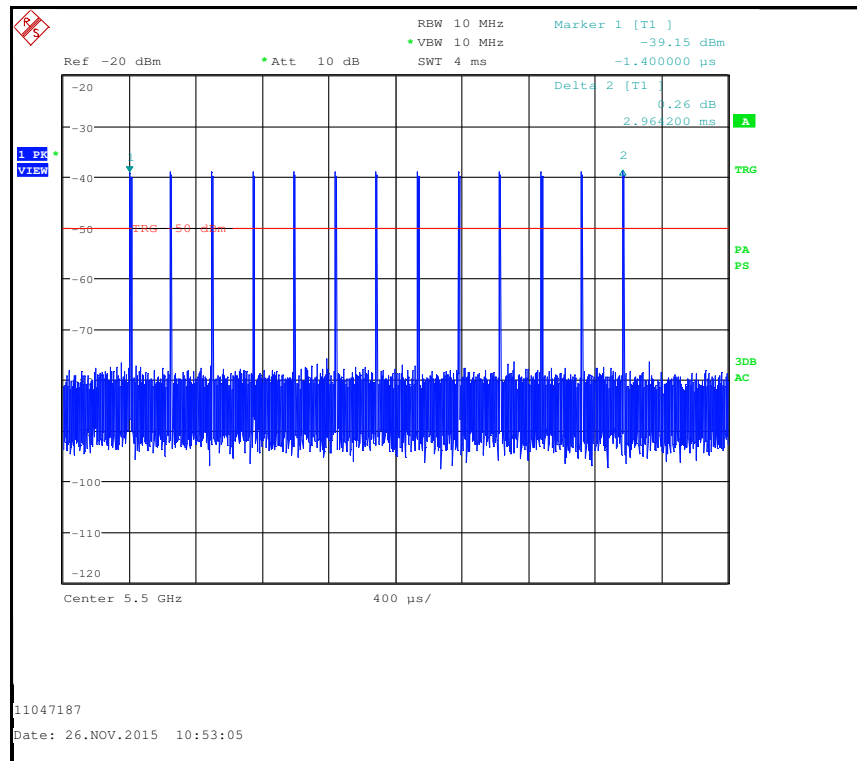
**Radar Type 2**

Radar Type 2 – 1  $\mu$ sec pulse width, 154  $\mu$ sec PRI, 25 pulses

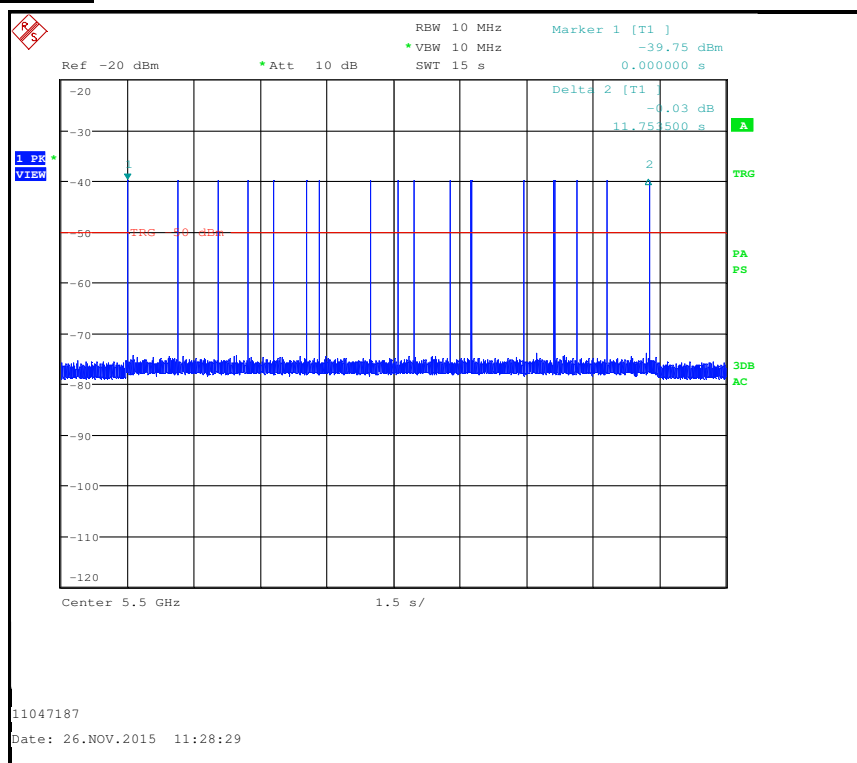
**Radar Type 3**

Radar Type 3 – 6  $\mu$ sec pulse width, 312  $\mu$ sec PRI, 16 pulses

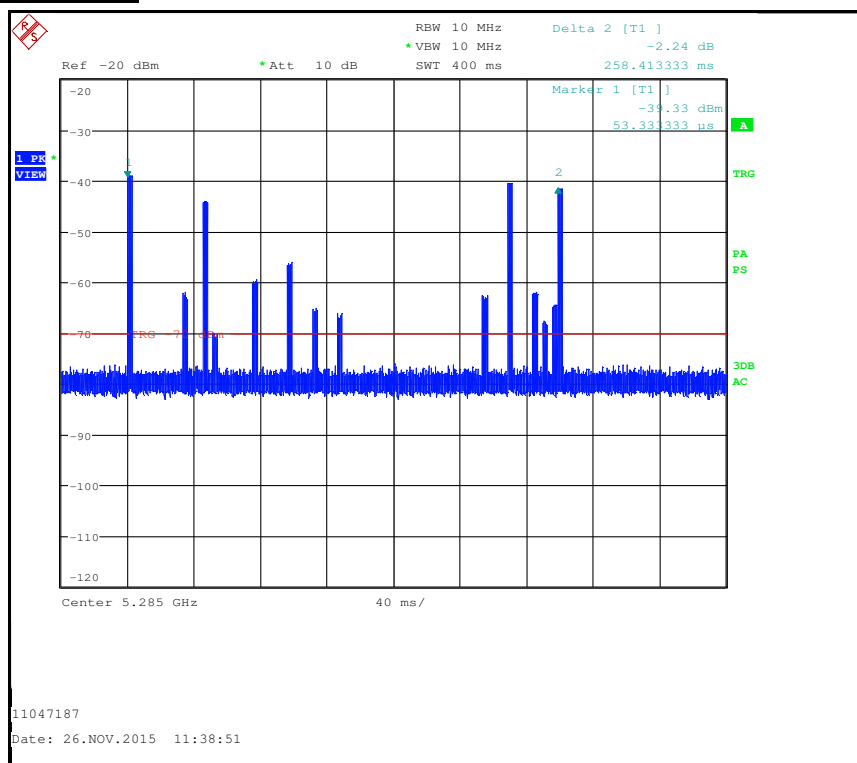
### Radar Type 4



Radar Type 4 – 11.6  $\mu$ sec pulse width, 247  $\mu$ sec PRI, 13 pulses

**Radar Type 5 (Long)****Long Radar Type 5**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 Spacing (μsec) | Pulse 2-to-3 Spacing (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-----------------------------|-----------------------------|------------------------------------------|
| 1             | 3                | 65                 | 16                | 1476                        | 1932                        | 50325                                    |
| 2             | 2                | 58                 | 11                | 1400                        | -                           | 481399                                   |
| 3             | 3                | 55                 | 9                 | 1994                        | 1926                        | 682588                                   |
| 4             | 1                | 58                 | 7                 | -                           | -                           | 655458                                   |
| 5             | 2                | 66                 | 20                | 1027                        | -                           | 510550                                   |
| 6             | 2                | 75                 | 10                | 1042                        | -                           | 545434                                   |
| 7             | 2                | 73                 | 11                | 1440                        | -                           | 125876                                   |
| 8             | 2                | 63                 | 15                | 1479                        | -                           | 579159                                   |
| 9             | 3                | 64                 | 20                | 1521                        | 1451                        | 498543                                   |
| 10            | 2                | 52                 | 20                | 1845                        | -                           | 143729                                   |
| 11            | 1                | 87                 | 18                | -                           | -                           | 256829                                   |
| 12            | 3                | 87                 | 12                | 1207                        | 1457                        | 23605                                    |
| 13            | 3                | 67                 | 15                | 1091                        | 1413                        | 497642                                   |
| 14            | 3                | 91                 | 14                | 1710                        | 1472                        | 484799                                   |
| 15            | 2                | 60                 | 9                 | 1369                        | -                           | 305488                                   |
| 16            | 2                | 50                 | 8                 | 1446                        | -                           | 253219                                   |
| 17            | 1                | 79                 | 10                | -                           | -                           | 508736                                   |

**Radar Type 6 (Hopping)****Hopping Radar Pulse 6 (Centre Frequency adjusted to first hop frequency)**

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hopping sequence (MHz):</b> | 5285, 5397, 5400, 5596, 5322, 5659, 5614, 5722, 5644, 5565, 5505, 5305, 5537, 5490, 5613, 5279, 5419, 5316, 5478, 5345, 5405, 5667, 5512, 5383, 5331, 5270, 5464, 5627, 5674, 5389, 5696, 5444, 5295, 5510, 5599, 5520, 5541, 5258, 5670, 5326, 5463, 5521, 5313, 5551, 5481, 5713, 5533, 5511, 5366, 5375, 5626, 5665, 5716, 5647, 5653, 5534, 5526, 5532, 5702, 5430, 5662, 5555, 5640, 5567, 5467, 5399, 5410, 5623, 5499, 5470, 5329, 5264, 5395, 5448, 5557, 5575, 5281, 5656, 5558, 5319, 5504, 5304, 5582, 5314, 5718, 5259, 5280, 5388, 5632, 5606, 5472, 5638, 5496, 5384, 5350, 5600, 5406, 5515, 5636, 5507 |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Appendix 4. Test platform confirmation email**

From: Andrew Leimer [<mailto:Andrew.Leimer@fcc.gov>]  
Sent: Friday, September 23, 2011 4:24 PM  
To: Chisham, Steve  
Cc: Carey, Tim; Hack, Barry; Rashmi Doshi; Joe Dichoso  
Subject: RE: Certification for Aeroflex DFS solution

Hello Steve,  
The Aeroflex "DXI based DFS test solution" system used for DFS alternative radar signal generation has been approved by the FCC and NTIA.  
This approval permits the system to be used by labs in the testing of DFS devices for equipment authorization Certification. It is recommended that applicants that use your system for testing include a statement in the Test Report or a Letter Exhibit stating that the system has FCC and NTIA approval. This E-mail is your record of this approval.  
Note that the appropriate term for your system is Approved as the term Certification is reserved for devices gaining equipment authorization through the FCC or a TCB.

Regards,  
Andy Leimer

FCC/OET/EACB

## **Appendix 5. Statistical Performance Check– Radar Type 1 Trial Records**

### **20 MHz Master**

| Radar Type 1 |                                            |                                       |                                  |
|--------------|--------------------------------------------|---------------------------------------|----------------------------------|
| Trial #      | 'Test A' Pulse Repetition Frequency Number | Pulse Repetition Frequency (Pulses/s) | Pulse Repetition Interval (µsec) |
| 1            | N/A - 'Test B' Radar                       | 779.4                                 | 1283                             |
| 2            | N/A - 'Test B' Radar                       | 775.8                                 | 1289                             |
| 3            | N/A - 'Test B' Radar                       | 709.2                                 | 1410                             |
| 4            | N/A - 'Test B' Radar                       | 636.1                                 | 1572                             |
| 5            | N/A - 'Test B' Radar                       | 610.9                                 | 1637                             |
| 6            | N/A - 'Test B' Radar                       | 606.4                                 | 1649                             |
| 7            | N/A - 'Test B' Radar                       | 462.1                                 | 2164                             |
| 8            | N/A - 'Test B' Radar                       | 447.6                                 | 2234                             |
| 9            | N/A - 'Test B' Radar                       | 402.7                                 | 2483                             |
| 10           | N/A - 'Test B' Radar                       | 370.6                                 | 2698                             |
| 11           | N/A - 'Test B' Radar                       | 341.8                                 | 2926                             |
| 12           | 1                                          | 1930.5                                | 518                              |
| 13           | N/A - 'Test B' Radar                       | 1926.8                                | 519                              |
| 14           | N/A - 'Test B' Radar                       | 1869.2                                | 535                              |
| 15           | 3                                          | 1792.1                                | 558                              |
| 16           | 4                                          | 1730.1                                | 578                              |
| 17           | 5                                          | 1672.2                                | 598                              |
| 18           | 6                                          | 1618.1                                | 618                              |
| 19           | 7                                          | 1567.4                                | 638                              |
| 20           | 8                                          | 1519.8                                | 658                              |
| 21           | 10                                         | 1432.7                                | 698                              |
| 22           | 11                                         | 1392.8                                | 718                              |
| 23           | 12                                         | 1355.0                                | 738                              |
| 24           | N/A - 'Test B' Radar                       | 1298.7                                | 770                              |
| 25           | 14                                         | 1285.3                                | 778                              |
| 26           | N/A - 'Test B' Radar                       | 1259.4                                | 794                              |
| 27           | 15                                         | 1253.1                                | 798                              |
| 28           | 18                                         | 1165.5                                | 858                              |
| 29           | 20                                         | 1113.6                                | 898                              |
| 30           | 22                                         | 1066.1                                | 938                              |

**40 MHz Master**

| Radar Type 1 |                                            |                                       |                                  |
|--------------|--------------------------------------------|---------------------------------------|----------------------------------|
| Trial #      | 'Test A' Pulse Repetition Frequency Number | Pulse Repetition Frequency (Pulses/s) | Pulse Repetition Interval (µsec) |
| 1            | N/A - 'Test B' Radar                       | 989.1                                 | 1011                             |
| 2            | N/A - 'Test B' Radar                       | 909.9                                 | 1099                             |
| 3            | N/A - 'Test B' Radar                       | 810.4                                 | 1234                             |
| 4            | N/A - 'Test B' Radar                       | 769.8                                 | 1299                             |
| 5            | N/A - 'Test B' Radar                       | 649.8                                 | 1539                             |
| 6            | N/A - 'Test B' Radar                       | 632.9                                 | 1580                             |
| 7            | N/A - 'Test B' Radar                       | 528.5                                 | 1892                             |
| 8            | N/A - 'Test B' Radar                       | 458.7                                 | 2180                             |
| 9            | N/A - 'Test B' Radar                       | 399.7                                 | 2502                             |
| 10           | N/A - 'Test B' Radar                       | 345.3                                 | 2896                             |
| 11           | N/A - 'Test B' Radar                       | 338.5                                 | 2954                             |
| 12           | N/A - 'Test B' Radar                       | 333.9                                 | 2995                             |
| 13           | 23                                         | 326.2                                 | 3066                             |
| 14           | 1                                          | 1930.5                                | 518                              |
| 15           | N/A - 'Test B' Radar                       | 1923.1                                | 520                              |
| 16           | 2                                          | 1858.7                                | 538                              |
| 17           | 3                                          | 1792.1                                | 558                              |
| 18           | 4                                          | 1730.1                                | 578                              |
| 19           | 5                                          | 1672.2                                | 598                              |
| 20           | 6                                          | 1618.1                                | 618                              |
| 21           | 8                                          | 1519.8                                | 658                              |
| 22           | 9                                          | 1474.9                                | 678                              |
| 23           | N/A - 'Test B' Radar                       | 1459.9                                | 685                              |
| 24           | 10                                         | 1432.7                                | 698                              |
| 25           | 11                                         | 1392.8                                | 718                              |
| 26           | 16                                         | 1222.5                                | 818                              |
| 27           | 17                                         | 1193.3                                | 838                              |
| 28           | 19                                         | 1139.0                                | 878                              |
| 29           | N/A - 'Test B' Radar                       | 1107.4                                | 903                              |
| 30           | 22                                         | 1066.1                                | 938                              |

## **Appendix 6. Statistical Performance Check– Radar Type 2 Trial Records**

### **20 MHz Master**

| Radar Type 2 |                         |                    |            |
|--------------|-------------------------|--------------------|------------|
| Trial #      | Number Pulses per Burst | Pulse Width (µsec) | PRI (µsec) |
| 1            | 25                      | 1.0                | 154        |
| 2            | 26                      | 1.1                | 173        |
| 3            | 25                      | 1.3                | 209        |
| 4            | 29                      | 1.8                | 187        |
| 5            | 25                      | 1.8                | 212        |
| 6            | 26                      | 2.0                | 150        |
| 7            | 26                      | 2.0                | 194        |
| 8            | 23                      | 2.0                | 222        |
| 9            | 23                      | 2.1                | 158        |
| 10           | 23                      | 2.1                | 216        |
| 11           | 23                      | 2.2                | 165        |
| 12           | 24                      | 2.2                | 196        |
| 13           | 24                      | 2.3                | 154        |
| 14           | 28                      | 2.3                | 205        |
| 15           | 26                      | 2.5                | 177        |
| 16           | 23                      | 2.7                | 155        |
| 17           | 24                      | 2.9                | 154        |
| 18           | 29                      | 2.9                | 162        |
| 19           | 28                      | 3.0                | 179        |
| 20           | 28                      | 3.2                | 179        |
| 21           | 23                      | 3.2                | 194        |
| 22           | 27                      | 3.3                | 174        |
| 23           | 28                      | 3.6                | 207        |
| 24           | 27                      | 3.8                | 182        |
| 25           | 27                      | 4.3                | 191        |
| 26           | 27                      | 4.4                | 208        |
| 27           | 29                      | 4.4                | 228        |
| 28           | 23                      | 4.5                | 201        |
| 29           | 28                      | 4.6                | 217        |
| 30           | 29                      | 4.8                | 230        |

**40 MHz Master**

| Radar Type 2 |                         |                    |            |
|--------------|-------------------------|--------------------|------------|
| Trial #      | Number Pulses per Burst | Pulse Width (μsec) | PRI (μsec) |
| 1            | 26                      | 1.1                | 199        |
| 2            | 23                      | 1.1                | 214        |
| 3            | 23                      | 1.3                | 170        |
| 4            | 25                      | 1.4                | 172        |
| 5            | 27                      | 1.4                | 213        |
| 6            | 25                      | 1.7                | 160        |
| 7            | 28                      | 1.8                | 185        |
| 8            | 27                      | 2.2                | 188        |
| 9            | 24                      | 2.4                | 198        |
| 10           | 25                      | 2.5                | 173        |
| 11           | 29                      | 2.6                | 178        |
| 12           | 26                      | 2.6                | 185        |
| 13           | 24                      | 2.8                | 179        |
| 14           | 25                      | 3.0                | 213        |
| 15           | 26                      | 3.1                | 203        |
| 16           | 26                      | 3.5                | 220        |
| 17           | 28                      | 3.6                | 165        |
| 18           | 27                      | 3.7                | 185        |
| 19           | 26                      | 3.8                | 226        |
| 20           | 24                      | 3.9                | 172        |
| 21           | 28                      | 4.1                | 203        |
| 22           | 24                      | 4.3                | 194        |
| 23           | 28                      | 4.3                | 221        |
| 24           | 25                      | 4.4                | 161        |
| 25           | 29                      | 4.5                | 171        |
| 26           | 23                      | 4.6                | 195        |
| 27           | 26                      | 4.7                | 188        |
| 28           | 23                      | 4.7                | 213        |
| 29           | 29                      | 4.8                | 218        |
| 30           | 26                      | 4.9                | 218        |

**Appendix 7. Statistical Performance Check– Radar Type 3 Trial Records**  
**20 MHz Master**

| Radar Type 3 |                         |                    |            |
|--------------|-------------------------|--------------------|------------|
| Trial #      | Number Pulses per Burst | Pulse Width (μsec) | PRI (μsec) |
| 1            | 16                      | 6.0                | 312        |
| 2            | 18                      | 6.2                | 399        |
| 3            | 16                      | 6.5                | 213        |
| 4            | 17                      | 6.5                | 386        |
| 5            | 17                      | 6.6                | 458        |
| 6            | 17                      | 6.7                | 337        |
| 7            | 18                      | 7.1                | 330        |
| 8            | 16                      | 7.2                | 342        |
| 9            | 16                      | 7.4                | 238        |
| 10           | 17                      | 7.5                | 336        |
| 11           | 16                      | 7.5                | 396        |
| 12           | 18                      | 7.6                | 209        |
| 13           | 17                      | 8.2                | 239        |
| 14           | 18                      | 8.2                | 266        |
| 15           | 18                      | 8.2                | 392        |
| 16           | 17                      | 8.6                | 213        |
| 17           | 16                      | 8.6                | 250        |
| 18           | 18                      | 8.6                | 271        |
| 19           | 16                      | 8.6                | 352        |
| 20           | 18                      | 8.7                | 436        |
| 21           | 17                      | 8.8                | 347        |
| 22           | 16                      | 8.8                | 416        |
| 23           | 17                      | 9.0                | 230        |
| 24           | 18                      | 9.3                | 412        |
| 25           | 17                      | 9.4                | 274        |
| 26           | 17                      | 9.4                | 480        |
| 27           | 17                      | 9.5                | 438        |
| 28           | 18                      | 9.8                | 231        |
| 29           | 17                      | 9.8                | 299        |
| 30           | 18                      | 9.9                | 251        |

**40 MHz Master**

| Radar Type 3 |                         |                    |            |
|--------------|-------------------------|--------------------|------------|
| Trial #      | Number Pulses per Burst | Pulse Width (µsec) | PRI (µsec) |
| 1            | 17                      | 10.0               | 473        |
| 2            | 16                      | 6.5                | 318        |
| 3            | 16                      | 6.7                | 397        |
| 4            | 18                      | 6.9                | 335        |
| 5            | 17                      | 6.9                | 387        |
| 6            | 17                      | 7.1                | 374        |
| 7            | 16                      | 7.1                | 464        |
| 8            | 17                      | 7.2                | 378        |
| 9            | 18                      | 7.2                | 489        |
| 10           | 16                      | 7.3                | 264        |
| 11           | 16                      | 7.3                | 269        |
| 12           | 17                      | 7.3                | 415        |
| 13           | 18                      | 7.3                | 494        |
| 14           | 18                      | 7.7                | 307        |
| 15           | 16                      | 7.7                | 360        |
| 16           | 17                      | 8.0                | 500        |
| 17           | 18                      | 8.1                | 325        |
| 18           | 18                      | 8.3                | 446        |
| 19           | 18                      | 8.4                | 319        |
| 20           | 18                      | 8.8                | 283        |
| 21           | 17                      | 8.9                | 473        |
| 22           | 16                      | 9.0                | 422        |
| 23           | 16                      | 9.3                | 477        |
| 24           | 16                      | 9.5                | 254        |
| 25           | 16                      | 9.6                | 290        |
| 26           | 18                      | 9.6                | 308        |
| 27           | 17                      | 9.7                | 347        |
| 28           | 16                      | 9.8                | 218        |
| 29           | 17                      | 9.8                | 224        |
| 30           | 17                      | 9.8                | 496        |

## **Appendix 8. Statistical Performance Check– Radar Type 4 Trial Records**

### **20 MHz Master**

| Radar Type 4 |                         |                    |            |
|--------------|-------------------------|--------------------|------------|
| Trial #      | Number Pulses per Burst | Pulse Width (μsec) | PRI (μsec) |
| 1            | 13                      | 11.6               | 247        |
| 2            | 14                      | 11.6               | 383        |
| 3            | 15                      | 12.4               | 297        |
| 4            | 12                      | 12.7               | 466        |
| 5            | 12                      | 12.9               | 354        |
| 6            | 16                      | 13.2               | 431        |
| 7            | 14                      | 13.5               | 379        |
| 8            | 15                      | 13.7               | 439        |
| 9            | 14                      | 13.8               | 492        |
| 10           | 15                      | 13.9               | 262        |
| 11           | 16                      | 13.9               | 377        |
| 12           | 12                      | 14.2               | 216        |
| 13           | 15                      | 14.2               | 400        |
| 14           | 13                      | 15.1               | 302        |
| 15           | 16                      | 15.9               | 397        |
| 16           | 16                      | 16.0               | 215        |
| 17           | 15                      | 16.4               | 387        |
| 18           | 15                      | 16.9               | 259        |
| 19           | 12                      | 17.0               | 229        |
| 20           | 16                      | 17.5               | 432        |
| 21           | 14                      | 17.5               | 467        |
| 22           | 14                      | 17.7               | 242        |
| 23           | 15                      | 17.8               | 368        |
| 24           | 16                      | 19.0               | 310        |
| 25           | 16                      | 19.2               | 445        |
| 26           | 12                      | 19.3               | 231        |
| 27           | 16                      | 19.7               | 232        |
| 28           | 15                      | 19.8               | 271        |
| 29           | 14                      | 19.9               | 281        |
| 30           | 15                      | 19.9               | 412        |

**40 MHz Master**

| Radar Type 4 |                         |                    |            |
|--------------|-------------------------|--------------------|------------|
| Trial #      | Number Pulses per Burst | Pulse Width (µsec) | PRI (µsec) |
| 1            | 14                      | 11.0               | 255        |
| 2            | 14                      | 11.1               | 283        |
| 3            | 14                      | 11.6               | 244        |
| 4            | 16                      | 12.1               | 389        |
| 5            | 13                      | 12.3               | 390        |
| 6            | 13                      | 12.4               | 309        |
| 7            | 13                      | 12.5               | 412        |
| 8            | 16                      | 13.3               | 333        |
| 9            | 16                      | 13.4               | 289        |
| 10           | 12                      | 13.5               | 386        |
| 11           | 12                      | 13.6               | 467        |
| 12           | 15                      | 13.7               | 433        |
| 13           | 14                      | 13.8               | 441        |
| 14           | 15                      | 14.1               | 415        |
| 15           | 12                      | 14.2               | 346        |
| 16           | 13                      | 15.8               | 201        |
| 17           | 16                      | 15.8               | 368        |
| 18           | 12                      | 16.1               | 276        |
| 19           | 12                      | 16.1               | 284        |
| 20           | 16                      | 16.1               | 384        |
| 21           | 16                      | 16.2               | 247        |
| 22           | 13                      | 16.3               | 430        |
| 23           | 13                      | 16.8               | 309        |
| 24           | 12                      | 17.3               | 416        |
| 25           | 13                      | 17.6               | 408        |
| 26           | 16                      | 18.5               | 440        |
| 27           | 13                      | 18.9               | 316        |
| 28           | 12                      | 19.5               | 223        |
| 29           | 16                      | 19.7               | 460        |
| 30           | 16                      | 19.9               | 434        |

## **Appendix 9. Statistical Performance Check– Radar Type 5 Trial Records**

### **20 MHz Master - Trial 1**

| <b>Burst Segment</b> | <b>Number of Pulses</b> | <b>Pulse Width (μsec)</b> | <b>Chirp Width (MHz)</b> | <b>Pulse 1-to-2 PRI (μsec)</b> | <b>Pulse 2-to-3 PRI (μsec)</b> | <b>Starting Location Within Interval (μsec)</b> |
|----------------------|-------------------------|---------------------------|--------------------------|--------------------------------|--------------------------------|-------------------------------------------------|
| 1                    | 3                       | 65                        | 16                       | 1476                           | 1932                           | 50325                                           |
| 2                    | 2                       | 58                        | 11                       | 1400                           | -                              | 481399                                          |
| 3                    | 3                       | 55                        | 9                        | 1994                           | 1926                           | 682588                                          |
| 4                    | 1                       | 58                        | 7                        | -                              | -                              | 655458                                          |
| 5                    | 2                       | 66                        | 20                       | 1027                           | -                              | 510550                                          |
| 6                    | 2                       | 75                        | 10                       | 1042                           | -                              | 545434                                          |
| 7                    | 2                       | 73                        | 11                       | 1440                           | -                              | 125876                                          |
| 8                    | 2                       | 63                        | 15                       | 1479                           | -                              | 579159                                          |
| 9                    | 3                       | 64                        | 20                       | 1521                           | 1451                           | 498543                                          |
| 10                   | 2                       | 52                        | 20                       | 1845                           | -                              | 143729                                          |
| 11                   | 1                       | 87                        | 18                       | -                              | -                              | 256829                                          |
| 12                   | 3                       | 87                        | 12                       | 1207                           | 1457                           | 23605                                           |
| 13                   | 3                       | 67                        | 15                       | 1091                           | 1413                           | 497642                                          |
| 14                   | 3                       | 91                        | 14                       | 1710                           | 1472                           | 484799                                          |
| 15                   | 2                       | 60                        | 9                        | 1369                           | -                              | 305488                                          |
| 16                   | 2                       | 50                        | 8                        | 1446                           | -                              | 253219                                          |
| 17                   | 1                       | 79                        | 10                       | -                              | -                              | 508736                                          |

**20 MHz Master - Trial 2**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 1                | 60                 | 14                | -                       | -                       | 651625                                   |
| 2             | 2                | 51                 | 17                | 1870                    | -                       | 756120                                   |
| 3             | 1                | 71                 | 5                 | -                       | -                       | 1400                                     |
| 4             | 2                | 62                 | 11                | 1135                    | -                       | 584685                                   |
| 5             | 2                | 69                 | 15                | 1072                    | -                       | 488241                                   |
| 6             | 1                | 94                 | 8                 | -                       | -                       | 171893                                   |
| 7             | 2                | 75                 | 7                 | 1056                    | -                       | 608556                                   |
| 8             | 3                | 57                 | 17                | 1617                    | 1954                    | 712617                                   |
| 9             | 1                | 84                 | 13                | -                       | -                       | 266108                                   |
| 10            | 2                | 52                 | 5                 | 1537                    | -                       | 10645                                    |
| 11            | 3                | 60                 | 20                | 1062                    | 1838                    | 604249                                   |
| 12            | 2                | 97                 | 5                 | 1587                    | -                       | 253715                                   |
| 13            | 3                | 62                 | 17                | 1201                    | 1371                    | 643683                                   |
| 14            | 1                | 84                 | 10                | -                       | -                       | 684421                                   |
| 15            | 3                | 81                 | 11                | 1240                    | 1698                    | 720556                                   |

**20 MHz Master - Trial 3**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 1                | 87                 | 13                | -                       | -                       | 198067                                   |
| 2             | 2                | 59                 | 12                | 1386                    | -                       | 349369                                   |
| 3             | 1                | 61                 | 5                 | -                       | -                       | 236642                                   |
| 4             | 1                | 89                 | 5                 | -                       | -                       | 423443                                   |
| 5             | 3                | 90                 | 18                | 1360                    | 1962                    | 355695                                   |
| 6             | 3                | 67                 | 8                 | 1157                    | 1981                    | 381855                                   |
| 7             | 2                | 91                 | 7                 | 1854                    | -                       | 341650                                   |
| 8             | 2                | 63                 | 5                 | 1020                    | -                       | 403703                                   |
| 9             | 1                | 66                 | 18                | -                       | -                       | 563964                                   |
| 10            | 3                | 52                 | 15                | 1992                    | 1634                    | 641140                                   |
| 11            | 2                | 90                 | 9                 | 1909                    | -                       | 29135                                    |
| 12            | 2                | 67                 | 8                 | 1774                    | -                       | 638938                                   |
| 13            | 1                | 51                 | 13                | -                       | -                       | 540024                                   |
| 14            | 3                | 63                 | 6                 | 1149                    | 1841                    | 398537                                   |
| 15            | 2                | 50                 | 14                | 1346                    | -                       | 480329                                   |
| 16            | 2                | 77                 | 6                 | 1807                    | -                       | 493901                                   |
| 17            | 3                | 60                 | 13                | 1013                    | 1979                    | 491644                                   |
| 18            | 2                | 61                 | 17                | 1051                    | -                       | 185197                                   |

**20 MHz Master - Trial 4**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 1                | 53                 | 12                | -                       | -                       | 60956                                    |
| 2             | 3                | 50                 | 18                | 1473                    | 1967                    | 684337                                   |
| 3             | 1                | 51                 | 12                | -                       | -                       | 791004                                   |
| 4             | 1                | 98                 | 7                 | -                       | -                       | 664629                                   |
| 5             | 3                | 61                 | 11                | 1030                    | 1289                    | 1260838                                  |
| 6             | 2                | 75                 | 18                | 1245                    | -                       | 961771                                   |
| 7             | 3                | 67                 | 17                | 1322                    | 1421                    | 999103                                   |
| 8             | 2                | 95                 | 15                | 1742                    | -                       | 718927                                   |
| 9             | 1                | 67                 | 17                | -                       | -                       | 209634                                   |

**20 MHz Master - Trial 5**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 2                | 77                 | 11                | 1557                    | -                       | 887712                                   |
| 2             | 1                | 65                 | 7                 | -                       | -                       | 76705                                    |
| 3             | 3                | 61                 | 17                | 1514                    | 1548                    | 456392                                   |
| 4             | 1                | 81                 | 17                | -                       | -                       | 179929                                   |
| 5             | 1                | 68                 | 16                | -                       | -                       | 67909                                    |
| 6             | 3                | 82                 | 5                 | 1510                    | 1757                    | 565413                                   |
| 7             | 3                | 52                 | 9                 | 1132                    | 1901                    | 11813                                    |
| 8             | 3                | 72                 | 16                | 1129                    | 1802                    | 41622                                    |

**20 MHz Master - Trial 6**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 1                | 87                 | 13                | -                       | -                       | 588367                                   |
| 2             | 2                | 56                 | 11                | 1366                    | -                       | 479415                                   |
| 3             | 2                | 83                 | 20                | 1686                    | -                       | 582379                                   |
| 4             | 2                | 77                 | 19                | 1536                    | -                       | 400042                                   |
| 5             | 2                | 88                 | 6                 | 1642                    | -                       | 724586                                   |
| 6             | 2                | 81                 | 13                | 1354                    | -                       | 544587                                   |
| 7             | 3                | 81                 | 10                | 1147                    | 1705                    | 328896                                   |
| 8             | 1                | 66                 | 18                | -                       | -                       | 513769                                   |
| 9             | 2                | 66                 | 5                 | 1331                    | -                       | 352432                                   |
| 10            | 2                | 57                 | 8                 | 1229                    | -                       | 335507                                   |
| 11            | 3                | 88                 | 14                | 1267                    | 1472                    | 672855                                   |
| 12            | 1                | 54                 | 13                | -                       | -                       | 109635                                   |
| 13            | 3                | 79                 | 6                 | 1639                    | 1714                    | 716894                                   |
| 14            | 2                | 92                 | 20                | 1338                    | -                       | 137365                                   |
| 15            | 1                | 54                 | 18                | -                       | -                       | 114257                                   |
| 16            | 1                | 87                 | 16                | -                       | -                       | 127984                                   |

**20 MHz Master - Trial 7**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 2                | 70                 | 9                 | 1907                    | -                       | 822773                                   |
| 2             | 1                | 51                 | 5                 | -                       | -                       | 674851                                   |
| 3             | 3                | 62                 | 8                 | 1754                    | 1698                    | 924126                                   |
| 4             | 3                | 62                 | 10                | 1618                    | 1511                    | 258384                                   |
| 5             | 1                | 61                 | 19                | -                       | -                       | 264593                                   |
| 6             | 3                | 84                 | 16                | 1114                    | 1236                    | 155878                                   |
| 7             | 2                | 96                 | 8                 | 1658                    | -                       | 357662                                   |
| 8             | 1                | 59                 | 18                | -                       | -                       | 546418                                   |
| 9             | 3                | 64                 | 7                 | 1176                    | 1089                    | 947280                                   |
| 10            | 2                | 69                 | 19                | 1358                    | -                       | 308                                      |
| 11            | 2                | 56                 | 15                | 1111                    | -                       | 173184                                   |
| 12            | 1                | 71                 | 15                | -                       | -                       | 150553                                   |

**20 MHz Master - Trial 8**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 1                | 97                 | 12                | -                       | -                       | 555469                                   |
| 2             | 3                | 66                 | 14                | 1040                    | 1569                    | 441570                                   |
| 3             | 1                | 78                 | 6                 | -                       | -                       | 495830                                   |
| 4             | 3                | 57                 | 5                 | 1802                    | 1315                    | 169095                                   |
| 5             | 1                | 91                 | 17                | -                       | -                       | 202067                                   |
| 6             | 3                | 65                 | 9                 | 1077                    | 1484                    | 164105                                   |
| 7             | 3                | 77                 | 15                | 1055                    | 1647                    | 298944                                   |
| 8             | 3                | 76                 | 9                 | 1630                    | 1912                    | 294988                                   |
| 9             | 2                | 92                 | 20                | 1814                    | -                       | 50424                                    |
| 10            | 1                | 57                 | 5                 | -                       | -                       | 94070                                    |
| 11            | 2                | 66                 | 20                | 1201                    | -                       | 399387                                   |
| 12            | 1                | 60                 | 18                | -                       | -                       | 421108                                   |
| 13            | 1                | 74                 | 13                | -                       | -                       | 323158                                   |
| 14            | 2                | 76                 | 19                | 1016                    | -                       | 797978                                   |

**20 MHz Master - Trial 9**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 2                | 76                 | 13                | 1686                    | -                       | 214240                                   |
| 2             | 3                | 73                 | 19                | 1295                    | 1972                    | 190005                                   |
| 3             | 1                | 97                 | 12                | -                       | -                       | 61709                                    |
| 4             | 1                | 60                 | 16                | -                       | -                       | 640147                                   |
| 5             | 1                | 58                 | 13                | -                       | -                       | 498745                                   |
| 6             | 3                | 78                 | 11                | 1790                    | 1978                    | 136431                                   |
| 7             | 2                | 96                 | 5                 | 1149                    | -                       | 386862                                   |
| 8             | 2                | 79                 | 6                 | 1641                    | -                       | 498524                                   |
| 9             | 1                | 50                 | 9                 | -                       | -                       | 681113                                   |
| 10            | 3                | 62                 | 19                | 1548                    | 1090                    | 220275                                   |
| 11            | 2                | 66                 | 7                 | 1162                    | -                       | 563410                                   |
| 12            | 2                | 96                 | 18                | 1724                    | -                       | 90778                                    |
| 13            | 3                | 57                 | 12                | 1732                    | 1879                    | 38882                                    |
| 14            | 1                | 51                 | 11                | -                       | -                       | 661541                                   |
| 15            | 2                | 57                 | 14                | 1045                    | -                       | 446540                                   |
| 16            | 1                | 96                 | 14                | -                       | -                       | 579463                                   |

**20 MHz Master - Trial 10**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 3                | 94                 | 16                | 1683                    | 1765                    | 80293                                    |
| 2             | 3                | 94                 | 11                | 1063                    | 1668                    | 573106                                   |
| 3             | 2                | 76                 | 17                | 1102                    | -                       | 411401                                   |
| 4             | 2                | 51                 | 18                | 1025                    | -                       | 695148                                   |
| 5             | 1                | 60                 | 17                | -                       | -                       | 221721                                   |
| 6             | 3                | 57                 | 14                | 1575                    | 1549                    | 244032                                   |
| 7             | 1                | 58                 | 12                | -                       | -                       | 787638                                   |
| 8             | 2                | 91                 | 20                | 1778                    | -                       | 252260                                   |
| 9             | 1                | 81                 | 10                | -                       | -                       | 171327                                   |
| 10            | 3                | 88                 | 5                 | 1240                    | 1494                    | 528210                                   |
| 11            | 2                | 79                 | 19                | 1532                    | -                       | 639352                                   |
| 12            | 3                | 75                 | 19                | 1488                    | 1352                    | 476711                                   |
| 13            | 1                | 91                 | 13                | -                       | -                       | 289310                                   |
| 14            | 2                | 60                 | 6                 | 1821                    | -                       | 516959                                   |
| 15            | 3                | 78                 | 9                 | 1524                    | 1694                    | 194442                                   |

**20 MHz Master - Trial 11**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 3                | 50                 | 13                | 1701                    | 1898                    | 51113                                    |
| 2             | 3                | 59                 | 16                | 1157                    | 1635                    | 456704                                   |
| 3             | 1                | 99                 | 19                | -                       | -                       | 338110                                   |
| 4             | 2                | 86                 | 5                 | 1804                    | -                       | 593572                                   |
| 5             | 3                | 57                 | 13                | 1979                    | 1420                    | 594139                                   |
| 6             | 3                | 91                 | 10                | 1408                    | 1838                    | 391139                                   |
| 7             | 3                | 75                 | 19                | 1975                    | 1652                    | 491685                                   |
| 8             | 1                | 96                 | 10                | -                       | -                       | 448356                                   |
| 9             | 2                | 79                 | 11                | 1586                    | -                       | 482100                                   |
| 10            | 3                | 54                 | 18                | 1806                    | 1676                    | 309158                                   |
| 11            | 3                | 57                 | 18                | 1961                    | 1723                    | 335660                                   |
| 12            | 1                | 98                 | 10                | -                       | -                       | 281742                                   |
| 13            | 3                | 90                 | 6                 | 1254                    | 1465                    | 28402                                    |
| 14            | 2                | 89                 | 5                 | 1777                    | -                       | 629353                                   |
| 15            | 2                | 61                 | 15                | 1979                    | -                       | 393066                                   |
| 16            | 3                | 58                 | 7                 | 1718                    | 1500                    | 423067                                   |
| 17            | 1                | 55                 | 5                 | -                       | -                       | 252065                                   |

**20 MHz Master - Trial 12**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 1                | 97                 | 8                 | -                       | -                       | 21105                                    |
| 2             | 3                | 99                 | 8                 | 1722                    | 1778                    | 489142                                   |
| 3             | 1                | 61                 | 17                | -                       | -                       | 873581                                   |
| 4             | 1                | 90                 | 19                | -                       | -                       | 819299                                   |
| 5             | 2                | 97                 | 7                 | 1982                    | -                       | 245903                                   |
| 6             | 2                | 53                 | 17                | 1655                    | -                       | 1347797                                  |
| 7             | 1                | 82                 | 20                | -                       | -                       | 298027                                   |
| 8             | 1                | 51                 | 12                | -                       | -                       | 1266709                                  |

**20 MHz Master - Trial 13**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 3                | 98                 | 13                | 1982                    | 1961                    | 133132                                   |
| 2             | 1                | 75                 | 20                | -                       | -                       | 268867                                   |
| 3             | 1                | 72                 | 18                | -                       | -                       | 175400                                   |
| 4             | 2                | 82                 | 11                | 1838                    | -                       | 21849                                    |
| 5             | 3                | 79                 | 20                | 1147                    | 1309                    | 223488                                   |
| 6             | 2                | 57                 | 10                | 1133                    | -                       | 74478                                    |
| 7             | 3                | 54                 | 8                 | 1993                    | 1136                    | 399417                                   |
| 8             | 3                | 98                 | 8                 | 1781                    | 1933                    | 93599                                    |
| 9             | 1                | 70                 | 13                | -                       | -                       | 302685                                   |
| 10            | 2                | 68                 | 11                | 1563                    | -                       | 448587                                   |
| 11            | 1                | 73                 | 6                 | -                       | -                       | 144797                                   |
| 12            | 3                | 90                 | 8                 | 1645                    | 1386                    | 38700                                    |
| 13            | 3                | 68                 | 18                | 1674                    | 1043                    | 156561                                   |
| 14            | 3                | 56                 | 20                | 1758                    | 1491                    | 410955                                   |
| 15            | 1                | 92                 | 11                | -                       | -                       | 549407                                   |
| 16            | 3                | 90                 | 19                | 1241                    | 1771                    | 626801                                   |
| 17            | 2                | 72                 | 13                | 1635                    | -                       | 86400                                    |
| 18            | 3                | 66                 | 17                | 1646                    | 1298                    | 552417                                   |

**20 MHz Master - Trial 14**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 1                | 89                 | 9                 | -                       | -                       | 512060                                   |
| 2             | 2                | 61                 | 13                | 1245                    | -                       | 308350                                   |
| 3             | 3                | 59                 | 14                | 1205                    | 1247                    | 548665                                   |
| 4             | 3                | 52                 | 12                | 1762                    | 1144                    | 202211                                   |
| 5             | 3                | 90                 | 11                | 1131                    | 1409                    | 74471                                    |
| 6             | 1                | 91                 | 7                 | -                       | -                       | 78911                                    |
| 7             | 1                | 90                 | 13                | -                       | -                       | 550956                                   |
| 8             | 2                | 77                 | 5                 | 1314                    | -                       | 467914                                   |
| 9             | 3                | 76                 | 13                | 1764                    | 1253                    | 685047                                   |
| 10            | 2                | 95                 | 20                | 1332                    | -                       | 531929                                   |
| 11            | 1                | 77                 | 16                | -                       | -                       | 306733                                   |
| 12            | 1                | 99                 | 19                | -                       | -                       | 419228                                   |
| 13            | 1                | 55                 | 12                | -                       | -                       | 310914                                   |
| 14            | 1                | 85                 | 20                | -                       | -                       | 550864                                   |
| 15            | 3                | 73                 | 6                 | 1460                    | 1027                    | 89381                                    |
| 16            | 1                | 71                 | 17                | -                       | -                       | 303114                                   |
| 17            | 1                | 57                 | 7                 | -                       | -                       | 691028                                   |

**20 MHz Master - Trial 15**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 1                | 74                 | 11                | -                       | -                       | 1089213                                  |
| 2             | 2                | 55                 | 6                 | 1666                    | -                       | 831424                                   |
| 3             | 2                | 71                 | 8                 | 1552                    | -                       | 312862                                   |
| 4             | 1                | 61                 | 6                 | -                       | -                       | 314336                                   |
| 5             | 1                | 88                 | 11                | -                       | -                       | 1057223                                  |
| 6             | 3                | 87                 | 6                 | 1438                    | 1271                    | 804981                                   |
| 7             | 3                | 97                 | 17                | 1437                    | 1088                    | 1064306                                  |
| 8             | 2                | 99                 | 18                | 1786                    | -                       | 401034                                   |
| 9             | 3                | 79                 | 17                | 1421                    | 1833                    | 717382                                   |
| 10            | 3                | 77                 | 7                 | 1677                    | 1196                    | 1155373                                  |

**20 MHz Master - Trial 16**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 3                | 61                 | 17                | 1168                    | 1601                    | 428164                                   |
| 2             | 3                | 61                 | 18                | 1423                    | 1980                    | 475940                                   |
| 3             | 3                | 100                | 7                 | 1663                    | 1844                    | 73587                                    |
| 4             | 2                | 64                 | 19                | 1513                    | -                       | 110207                                   |
| 5             | 2                | 73                 | 5                 | 1128                    | -                       | 124461                                   |
| 6             | 3                | 55                 | 20                | 1489                    | 1971                    | 556799                                   |
| 7             | 2                | 94                 | 6                 | 1249                    | -                       | 231110                                   |
| 8             | 1                | 98                 | 6                 | -                       | -                       | 538445                                   |
| 9             | 1                | 91                 | 15                | -                       | -                       | 611822                                   |
| 10            | 2                | 86                 | 19                | 1312                    | -                       | 352932                                   |
| 11            | 3                | 84                 | 20                | 1449                    | 1049                    | 121993                                   |
| 12            | 3                | 78                 | 13                | 1633                    | 1327                    | 447833                                   |
| 13            | 2                | 75                 | 17                | 1978                    | -                       | 324923                                   |
| 14            | 1                | 79                 | 14                | -                       | -                       | 473927                                   |
| 15            | 1                | 66                 | 17                | -                       | -                       | 417186                                   |
| 16            | 1                | 90                 | 17                | -                       | -                       | 44113                                    |
| 17            | 2                | 74                 | 5                 | 1804                    | -                       | 273987                                   |
| 18            | 2                | 64                 | 19                | 1025                    | -                       | 513247                                   |
| 19            | 3                | 77                 | 17                | 1632                    | 1322                    | 495488                                   |

**20 MHz Master - Trial 17**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 3                | 66                 | 19                | 1992                    | 1092                    | 564274                                   |
| 2             | 1                | 86                 | 17                | -                       | -                       | 861869                                   |
| 3             | 2                | 57                 | 17                | 1031                    | -                       | 535033                                   |
| 4             | 3                | 75                 | 5                 | 1156                    | 1319                    | 1208937                                  |
| 5             | 3                | 92                 | 12                | 1040                    | 1491                    | 641177                                   |
| 6             | 3                | 52                 | 20                | 1551                    | 1007                    | 30859                                    |
| 7             | 2                | 64                 | 12                | 1922                    | -                       | 104523                                   |
| 8             | 2                | 52                 | 16                | 1087                    | -                       | 833335                                   |
| 9             | 1                | 97                 | 17                | -                       | -                       | 315868                                   |

**20 MHz Master - Trial 18**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 2                | 82                 | 9                 | 1598                    | -                       | 110412                                   |
| 2             | 2                | 61                 | 16                | 1500                    | -                       | 252379                                   |
| 3             | 3                | 80                 | 20                | 1606                    | 1663                    | 572724                                   |
| 4             | 1                | 67                 | 6                 | -                       | -                       | 178756                                   |
| 5             | 3                | 97                 | 20                | 1414                    | 1607                    | 68216                                    |
| 6             | 2                | 91                 | 10                | 1817                    | -                       | 371047                                   |
| 7             | 1                | 62                 | 16                | -                       | -                       | 139891                                   |
| 8             | 2                | 82                 | 20                | 1841                    | -                       | 368283                                   |
| 9             | 1                | 78                 | 20                | -                       | -                       | 361316                                   |
| 10            | 1                | 92                 | 6                 | -                       | -                       | 67446                                    |
| 11            | 2                | 88                 | 19                | 1594                    | -                       | 454707                                   |
| 12            | 3                | 52                 | 13                | 1641                    | 1898                    | 657459                                   |
| 13            | 1                | 93                 | 11                | -                       | -                       | 245683                                   |
| 14            | 3                | 91                 | 16                | 1348                    | 1243                    | 263013                                   |
| 15            | 1                | 61                 | 7                 | -                       | -                       | 335630                                   |
| 16            | 2                | 99                 | 8                 | 1980                    | -                       | 297144                                   |
| 17            | 1                | 89                 | 20                | -                       | -                       | 340491                                   |
| 18            | 2                | 80                 | 19                | 1965                    | -                       | 370922                                   |

**20 MHz Master - Trial 19**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 2                | 83                 | 17                | 1737                    | -                       | 1047139                                  |
| 2             | 3                | 85                 | 19                | 1185                    | 1277                    | 784436                                   |
| 3             | 2                | 74                 | 18                | 1705                    | -                       | 202925                                   |
| 4             | 2                | 89                 | 6                 | 1122                    | -                       | 1078039                                  |
| 5             | 3                | 78                 | 8                 | 1612                    | 1210                    | 77464                                    |
| 6             | 2                | 50                 | 17                | 1785                    | -                       | 933359                                   |
| 7             | 1                | 53                 | 14                | -                       | -                       | 797643                                   |
| 8             | 2                | 75                 | 7                 | 1726                    | -                       | 941090                                   |
| 9             | 1                | 50                 | 16                | -                       | -                       | 792358                                   |
| 10            | 3                | 65                 | 6                 | 1806                    | 1210                    | 78470                                    |
| 11            | 1                | 94                 | 11                | -                       | -                       | 322497                                   |

**20 MHz Master - Trial 20**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 1                | 80                 | 6                 | -                       | -                       | 500902                                   |
| 2             | 3                | 67                 | 18                | 1422                    | 1493                    | 573243                                   |
| 3             | 1                | 71                 | 9                 | -                       | -                       | 649172                                   |
| 4             | 3                | 52                 | 14                | 1365                    | 1259                    | 589703                                   |
| 5             | 3                | 94                 | 12                | 1745                    | 1906                    | 627469                                   |
| 6             | 2                | 90                 | 16                | 1662                    | -                       | 653717                                   |
| 7             | 3                | 89                 | 17                | 1632                    | 1865                    | 243758                                   |
| 8             | 2                | 50                 | 13                | 1236                    | -                       | 386201                                   |
| 9             | 1                | 93                 | 14                | -                       | -                       | 593789                                   |
| 10            | 3                | 92                 | 12                | 1031                    | 1528                    | 338049                                   |
| 11            | 1                | 70                 | 20                | -                       | -                       | 157597                                   |
| 12            | 1                | 69                 | 18                | -                       | -                       | 506700                                   |
| 13            | 3                | 53                 | 16                | 1832                    | 1881                    | 366377                                   |
| 14            | 2                | 75                 | 10                | 1868                    | -                       | 447259                                   |
| 15            | 1                | 67                 | 16                | -                       | -                       | 434345                                   |
| 16            | 1                | 83                 | 14                | -                       | -                       | 96796                                    |
| 17            | 1                | 55                 | 16                | -                       | -                       | 216303                                   |
| 18            | 2                | 56                 | 12                | 1539                    | -                       | 239444                                   |

**20 MHz Master - Trial 21**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 2                | 87                 | 20                | 1584                    | -                       | 172146                                   |
| 2             | 3                | 58                 | 18                | 1377                    | 1983                    | 30776                                    |
| 3             | 1                | 67                 | 12                | -                       | -                       | 407531                                   |
| 4             | 2                | 68                 | 7                 | 1431                    | -                       | 502830                                   |
| 5             | 3                | 79                 | 13                | 1235                    | 1832                    | 435786                                   |
| 6             | 1                | 87                 | 6                 | -                       | -                       | 465464                                   |
| 7             | 2                | 50                 | 9                 | 1670                    | -                       | 629700                                   |
| 8             | 1                | 84                 | 14                | -                       | -                       | 57927                                    |
| 9             | 1                | 74                 | 11                | -                       | -                       | 184247                                   |
| 10            | 2                | 55                 | 17                | 1760                    | -                       | 145678                                   |
| 11            | 3                | 65                 | 17                | 1311                    | 1107                    | 401221                                   |
| 12            | 1                | 91                 | 8                 | -                       | -                       | 500954                                   |
| 13            | 3                | 80                 | 14                | 1438                    | 1779                    | 450602                                   |
| 14            | 2                | 51                 | 20                | 1674                    | -                       | 360838                                   |
| 15            | 2                | 84                 | 17                | 1076                    | -                       | 259551                                   |
| 16            | 1                | 63                 | 9                 | -                       | -                       | 596984                                   |
| 17            | 1                | 53                 | 19                | -                       | -                       | 587921                                   |
| 18            | 1                | 89                 | 19                | -                       | -                       | 63845                                    |

**20 MHz Master - Trial 22**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 3                | 76                 | 7                 | 1902                    | 1935                    | 521013                                   |
| 2             | 2                | 72                 | 5                 | 1643                    | -                       | 376116                                   |
| 3             | 1                | 53                 | 17                | -                       | -                       | 53900                                    |
| 4             | 3                | 61                 | 15                | 1991                    | 1234                    | 450902                                   |
| 5             | 1                | 95                 | 13                | -                       | -                       | 207130                                   |
| 6             | 2                | 85                 | 16                | 1721                    | -                       | 260832                                   |
| 7             | 1                | 88                 | 12                | -                       | -                       | 80031                                    |
| 8             | 1                | 57                 | 11                | -                       | -                       | 368610                                   |
| 9             | 3                | 98                 | 14                | 1952                    | 1241                    | 387941                                   |
| 10            | 3                | 93                 | 6                 | 1249                    | 1812                    | 129142                                   |
| 11            | 3                | 57                 | 19                | 1862                    | 1188                    | 224625                                   |
| 12            | 2                | 82                 | 14                | 1319                    | -                       | 87675                                    |
| 13            | 3                | 86                 | 14                | 1634                    | 1845                    | 356239                                   |
| 14            | 3                | 77                 | 19                | 1268                    | 1644                    | 558980                                   |
| 15            | 1                | 82                 | 17                | -                       | -                       | 52876                                    |
| 16            | 1                | 90                 | 12                | -                       | -                       | 343758                                   |
| 17            | 2                | 95                 | 13                | 1618                    | -                       | 545672                                   |
| 18            | 3                | 81                 | 20                | 1919                    | 1522                    | 490431                                   |
| 19            | 1                | 71                 | 17                | -                       | -                       | 512595                                   |

**20 MHz Master - Trial 23**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 2                | 100                | 18                | 1281                    | -                       | 142950                                   |
| 2             | 3                | 94                 | 19                | 1152                    | 1253                    | 974516                                   |
| 3             | 1                | 71                 | 9                 | -                       | -                       | 393304                                   |
| 4             | 3                | 54                 | 17                | 1698                    | 1887                    | 220251                                   |
| 5             | 1                | 89                 | 5                 | -                       | -                       | 1035138                                  |
| 6             | 1                | 81                 | 11                | -                       | -                       | 531407                                   |
| 7             | 2                | 73                 | 8                 | 1831                    | -                       | 580154                                   |
| 8             | 2                | 64                 | 19                | 1198                    | -                       | 450198                                   |
| 9             | 3                | 50                 | 14                | 1465                    | 1613                    | 1001140                                  |
| 10            | 2                | 76                 | 15                | 1161                    | -                       | 1036365                                  |
| 11            | 3                | 82                 | 6                 | 1925                    | 1030                    | 663585                                   |

**20 MHz Master - Trial 24**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 3                | 66                 | 7                 | 1098                    | 1469                    | 539189                                   |
| 2             | 2                | 89                 | 15                | 1388                    | -                       | 1065875                                  |
| 3             | 3                | 53                 | 19                | 1897                    | 1362                    | 1161765                                  |
| 4             | 3                | 81                 | 13                | 1154                    | 1109                    | 658061                                   |
| 5             | 2                | 99                 | 8                 | 1536                    | -                       | 861627                                   |
| 6             | 3                | 55                 | 19                | 1502                    | 1857                    | 85446                                    |
| 7             | 1                | 94                 | 9                 | -                       | -                       | 754551                                   |
| 8             | 2                | 56                 | 20                | 1831                    | -                       | 305592                                   |
| 9             | 1                | 81                 | 18                | -                       | -                       | 105676                                   |
| 10            | 1                | 50                 | 9                 | -                       | -                       | 170729                                   |

**20 MHz Master - Trial 25**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 2                | 53                 | 5                 | 1726                    | -                       | 1172929                                  |
| 2             | 2                | 56                 | 8                 | 1915                    | -                       | 1198026                                  |
| 3             | 3                | 77                 | 12                | 1387                    | 1950                    | 2172                                     |
| 4             | 3                | 51                 | 6                 | 1342                    | 1330                    | 744563                                   |
| 5             | 2                | 66                 | 18                | 1538                    | -                       | 1285033                                  |
| 6             | 1                | 58                 | 12                | -                       | -                       | 1050482                                  |
| 7             | 2                | 99                 | 18                | 1095                    | -                       | 1182412                                  |
| 8             | 1                | 69                 | 6                 | -                       | -                       | 955862                                   |

**20 MHz Master - Trial 26**

| Burst Segment | Number of Pulses | Pulse Width (µsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (µsec) | Pulse 2-to-3 PRI (µsec) | Starting Location Within Interval (µsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 1                | 60                 | 7                 | -                       | -                       | 748549                                   |
| 2             | 3                | 77                 | 8                 | 1890                    | 1086                    | 221204                                   |
| 3             | 3                | 60                 | 17                | 1721                    | 1909                    | 403342                                   |
| 4             | 3                | 94                 | 8                 | 1788                    | 1995                    | 49941                                    |
| 5             | 2                | 55                 | 11                | 1574                    | -                       | 536058                                   |
| 6             | 1                | 58                 | 20                | -                       | -                       | 361669                                   |
| 7             | 3                | 72                 | 18                | 1006                    | 1284                    | 383981                                   |
| 8             | 2                | 57                 | 5                 | 1618                    | -                       | 207902                                   |
| 9             | 1                | 61                 | 16                | -                       | -                       | 292045                                   |
| 10            | 1                | 56                 | 7                 | -                       | -                       | 271098                                   |
| 11            | 1                | 75                 | 18                | -                       | -                       | 727856                                   |
| 12            | 2                | 63                 | 17                | 1047                    | -                       | 394054                                   |
| 13            | 1                | 96                 | 20                | -                       | -                       | 624529                                   |
| 14            | 1                | 92                 | 5                 | -                       | -                       | 652556                                   |

**20 MHz Master - Trial 27**

| Burst Segment | Number of Pulses | Pulse Width (µsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (µsec) | Pulse 2-to-3 PRI (µsec) | Starting Location Within Interval (µsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 3                | 81                 | 5                 | 1288                    | 1724                    | 141669                                   |
| 2             | 1                | 88                 | 20                | -                       | -                       | 126917                                   |
| 3             | 2                | 53                 | 11                | 1492                    | -                       | 63039                                    |
| 4             | 3                | 86                 | 19                | 1109                    | 1593                    | 199138                                   |
| 5             | 3                | 75                 | 11                | 1991                    | 1014                    | 62285                                    |
| 6             | 3                | 76                 | 20                | 1385                    | 1672                    | 345793                                   |
| 7             | 1                | 71                 | 13                | -                       | -                       | 175730                                   |
| 8             | 3                | 89                 | 14                | 1680                    | 1755                    | 167868                                   |
| 9             | 2                | 83                 | 11                | 1734                    | -                       | 245819                                   |
| 10            | 3                | 95                 | 10                | 1918                    | 1931                    | 100671                                   |
| 11            | 2                | 99                 | 6                 | 1621                    | -                       | 178036                                   |
| 12            | 3                | 56                 | 12                | 1237                    | 1003                    | 494145                                   |
| 13            | 3                | 75                 | 7                 | 1072                    | 1544                    | 329317                                   |
| 14            | 3                | 57                 | 13                | 1914                    | 1579                    | 274300                                   |
| 15            | 3                | 87                 | 14                | 1280                    | 1694                    | 494587                                   |
| 16            | 2                | 80                 | 12                | 1741                    | -                       | 245524                                   |
| 17            | 2                | 72                 | 12                | 1672                    | -                       | 410226                                   |
| 18            | 1                | 73                 | 7                 | -                       | -                       | 310452                                   |
| 19            | 1                | 87                 | 20                | -                       | -                       | 536965                                   |
| 20            | 2                | 67                 | 9                 | 1333                    | -                       | 380395                                   |

**20 MHz Master - Trial 28**

| Burst Segment | Number of Pulses | Pulse Width (µsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (µsec) | Pulse 2-to-3 PRI (µsec) | Starting Location Within Interval (µsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 2                | 63                 | 5                 | 1513                    | -                       | 122968                                   |
| 2             | 3                | 85                 | 11                | 1440                    | 1671                    | 403146                                   |
| 3             | 2                | 68                 | 20                | 1082                    | -                       | 397381                                   |
| 4             | 2                | 55                 | 19                | 1052                    | -                       | 47233                                    |
| 5             | 1                | 87                 | 5                 | -                       | -                       | 121172                                   |
| 6             | 1                | 90                 | 16                | -                       | -                       | 487445                                   |
| 7             | 2                | 77                 | 9                 | 1972                    | -                       | 457799                                   |
| 8             | 1                | 57                 | 13                | -                       | -                       | 622024                                   |
| 9             | 1                | 90                 | 20                | -                       | -                       | 426251                                   |
| 10            | 1                | 75                 | 19                | -                       | -                       | 587820                                   |
| 11            | 2                | 99                 | 18                | 1952                    | -                       | 472944                                   |
| 12            | 1                | 73                 | 14                | -                       | -                       | 471293                                   |
| 13            | 2                | 76                 | 20                | 1331                    | -                       | 659004                                   |
| 14            | 1                | 100                | 16                | -                       | -                       | 56164                                    |
| 15            | 1                | 65                 | 11                | -                       | -                       | 447373                                   |
| 16            | 2                | 97                 | 5                 | 1694                    | -                       | 562804                                   |
| 17            | 1                | 53                 | 11                | -                       | -                       | 9188                                     |
| 18            | 1                | 57                 | 9                 | -                       | -                       | 541731                                   |

**20 MHz Master - Trial 29**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 3                | 89                 | 15                | 1334                    | 1844                    | 257566                                   |
| 2             | 3                | 97                 | 15                | 1553                    | 1602                    | 176147                                   |
| 3             | 3                | 50                 | 20                | 1944                    | 1369                    | 397307                                   |
| 4             | 2                | 86                 | 10                | 1885                    | -                       | 594537                                   |
| 5             | 1                | 67                 | 10                | -                       | -                       | 347598                                   |
| 6             | 1                | 68                 | 9                 | -                       | -                       | 557299                                   |
| 7             | 1                | 59                 | 9                 | -                       | -                       | 62558                                    |
| 8             | 3                | 72                 | 17                | 1468                    | 1036                    | 457775                                   |
| 9             | 3                | 65                 | 13                | 1091                    | 1581                    | 249023                                   |
| 10            | 1                | 75                 | 6                 | -                       | -                       | 569743                                   |
| 11            | 2                | 92                 | 6                 | 1512                    | -                       | 6481                                     |
| 12            | 3                | 81                 | 20                | 1476                    | 1867                    | 468439                                   |
| 13            | 2                | 66                 | 16                | 1570                    | -                       | 58247                                    |
| 14            | 2                | 96                 | 5                 | 1503                    | -                       | 373880                                   |
| 15            | 1                | 71                 | 5                 | -                       | -                       | 400451                                   |
| 16            | 2                | 69                 | 19                | 1769                    | -                       | 659290                                   |
| 17            | 2                | 90                 | 9                 | 1444                    | -                       | 188826                                   |
| 18            | 1                | 53                 | 16                | -                       | -                       | 56063                                    |

**20 MHz Master - Trial 30**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 3                | 91                 | 20                | 1169                    | 1984                    | 211088                                   |
| 2             | 3                | 90                 | 13                | 1493                    | 1917                    | 227307                                   |
| 3             | 2                | 78                 | 9                 | 1421                    | -                       | 632574                                   |
| 4             | 1                | 96                 | 11                | -                       | -                       | 743090                                   |
| 5             | 3                | 61                 | 12                | 1405                    | 1922                    | 415997                                   |
| 6             | 3                | 72                 | 11                | 1011                    | 1716                    | 1233649                                  |
| 7             | 3                | 85                 | 16                | 1140                    | 1251                    | 57107                                    |
| 8             | 2                | 81                 | 14                | 1405                    | -                       | 412281                                   |

**40 MHz Master - Trial 1**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 2                | 50                 | 17                | 1043                    | -                       | 510845                                   |
| 2             | 1                | 69                 | 18                | -                       | -                       | 643187                                   |
| 3             | 3                | 77                 | 20                | 1044                    | 1700                    | 778778                                   |
| 4             | 2                | 93                 | 15                | 1916                    | -                       | 692557                                   |
| 5             | 3                | 88                 | 18                | 1508                    | 1971                    | 808978                                   |
| 6             | 3                | 83                 | 6                 | 1107                    | 1410                    | 710047                                   |
| 7             | 3                | 70                 | 13                | 1080                    | 1306                    | 90709                                    |
| 8             | 3                | 63                 | 6                 | 1236                    | 1513                    | 492185                                   |
| 9             | 2                | 79                 | 14                | 1289                    | -                       | 336462                                   |
| 10            | 1                | 98                 | 14                | -                       | -                       | 834029                                   |
| 11            | 1                | 90                 | 17                | -                       | -                       | 144406                                   |
| 12            | 1                | 53                 | 15                | -                       | -                       | 185168                                   |
| 13            | 3                | 88                 | 15                | 1456                    | 1705                    | 23225                                    |
| 14            | 2                | 58                 | 18                | 1161                    | -                       | 641274                                   |

**40 MHz Master - Trial 2**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 2                | 85                 | 13                | 1241                    | -                       | 181857                                   |
| 2             | 1                | 69                 | 11                | -                       | -                       | 415774                                   |
| 3             | 1                | 90                 | 7                 | -                       | -                       | 567451                                   |
| 4             | 3                | 85                 | 14                | 1735                    | 1912                    | 38069                                    |
| 5             | 1                | 64                 | 5                 | -                       | -                       | 273943                                   |
| 6             | 2                | 94                 | 6                 | 1688                    | -                       | 390400                                   |
| 7             | 3                | 56                 | 13                | 1144                    | 1192                    | 605352                                   |
| 8             | 1                | 78                 | 9                 | -                       | -                       | 390030                                   |
| 9             | 3                | 56                 | 15                | 1269                    | 1627                    | 315928                                   |
| 10            | 3                | 74                 | 15                | 1847                    | 1331                    | 26355                                    |
| 11            | 2                | 96                 | 6                 | 1716                    | -                       | 321933                                   |
| 12            | 2                | 66                 | 5                 | 1372                    | -                       | 97261                                    |
| 13            | 2                | 92                 | 12                | 1471                    | -                       | 497844                                   |
| 14            | 2                | 99                 | 20                | 1541                    | -                       | 99235                                    |
| 15            | 1                | 59                 | 5                 | -                       | -                       | 647308                                   |
| 16            | 2                | 50                 | 11                | 1939                    | -                       | 356574                                   |
| 17            | 2                | 73                 | 18                | 1223                    | -                       | 623406                                   |

**40 MHz Master - Trial 3**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 2                | 51                 | 12                | 1403                    | -                       | 526823                                   |
| 2             | 1                | 62                 | 7                 | -                       | -                       | 579184                                   |
| 3             | 3                | 93                 | 17                | 1156                    | 1743                    | 247407                                   |
| 4             | 2                | 86                 | 9                 | 1190                    | -                       | 530412                                   |
| 5             | 1                | 96                 | 8                 | -                       | -                       | 275684                                   |
| 6             | 2                | 60                 | 11                | 1525                    | -                       | 732966                                   |
| 7             | 3                | 79                 | 14                | 1572                    | 1789                    | 48389                                    |
| 8             | 2                | 75                 | 13                | 1837                    | -                       | 674447                                   |
| 9             | 1                | 50                 | 8                 | -                       | -                       | 155149                                   |
| 10            | 2                | 60                 | 9                 | 1196                    | -                       | 131313                                   |
| 11            | 3                | 88                 | 13                | 1032                    | 1176                    | 320887                                   |
| 12            | 3                | 93                 | 6                 | 1965                    | 1507                    | 643751                                   |
| 13            | 3                | 60                 | 6                 | 1124                    | 1240                    | 179486                                   |
| 14            | 2                | 84                 | 16                | 1006                    | -                       | 126069                                   |
| 15            | 2                | 64                 | 15                | 1251                    | -                       | 516170                                   |
| 16            | 3                | 94                 | 8                 | 1937                    | 1181                    | 261215                                   |

**40 MHz Master - Trial 4**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 3                | 52                 | 14                | 1396                    | 1359                    | 453995                                   |
| 2             | 3                | 69                 | 14                | 1330                    | 1039                    | 477563                                   |
| 3             | 3                | 56                 | 6                 | 1258                    | 1967                    | 1186500                                  |
| 4             | 2                | 72                 | 19                | 1591                    | -                       | 87370                                    |
| 5             | 3                | 78                 | 7                 | 1034                    | 1864                    | 317734                                   |
| 6             | 3                | 79                 | 15                | 1373                    | 1110                    | 254890                                   |
| 7             | 1                | 83                 | 18                | -                       | -                       | 11811                                    |
| 8             | 2                | 99                 | 14                | 1593                    | -                       | 185035                                   |
| 9             | 1                | 63                 | 12                | -                       | -                       | 750181                                   |

**40 MHz Master - Trial 5**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 2                | 63                 | 5                 | 1663                    | -                       | 568222                                   |
| 2             | 1                | 66                 | 20                | -                       | -                       | 526904                                   |
| 3             | 3                | 59                 | 9                 | 1893                    | 1149                    | 529153                                   |
| 4             | 3                | 68                 | 20                | 1690                    | 1936                    | 5903                                     |
| 5             | 2                | 56                 | 19                | 1181                    | -                       | 300248                                   |
| 6             | 1                | 100                | 19                | -                       | -                       | 311981                                   |
| 7             | 1                | 87                 | 12                | -                       | -                       | 607990                                   |
| 8             | 2                | 73                 | 13                | 1019                    | -                       | 296716                                   |
| 9             | 3                | 94                 | 6                 | 1828                    | 1998                    | 519208                                   |
| 10            | 1                | 54                 | 12                | -                       | -                       | 474358                                   |
| 11            | 2                | 95                 | 9                 | 1762                    | -                       | 395103                                   |
| 12            | 3                | 50                 | 7                 | 1161                    | 1481                    | 267796                                   |
| 13            | 3                | 66                 | 5                 | 1340                    | 1566                    | 286368                                   |
| 14            | 3                | 97                 | 13                | 1374                    | 1235                    | 212863                                   |
| 15            | 2                | 90                 | 6                 | 1922                    | -                       | 484125                                   |
| 16            | 1                | 52                 | 7                 | -                       | -                       | 251245                                   |
| 17            | 3                | 62                 | 13                | 1602                    | 1999                    | 605510                                   |
| 18            | 3                | 53                 | 14                | 1325                    | 1363                    | 338455                                   |
| 19            | 1                | 98                 | 13                | -                       | -                       | 18163                                    |

**40 MHz Master - Trial 6**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 2                | 68                 | 8                 | 1148                    | -                       | 809295                                   |
| 2             | 2                | 57                 | 13                | 1767                    | -                       | 833803                                   |
| 3             | 2                | 99                 | 8                 | 1017                    | -                       | 90433                                    |
| 4             | 1                | 51                 | 7                 | -                       | -                       | 64104                                    |
| 5             | 2                | 87                 | 14                | 1491                    | -                       | 848263                                   |
| 6             | 3                | 96                 | 5                 | 1872                    | 1801                    | 401650                                   |
| 7             | 3                | 76                 | 19                | 1282                    | 1693                    | 584491                                   |
| 8             | 3                | 62                 | 18                | 1870                    | 1404                    | 41060                                    |
| 9             | 1                | 100                | 9                 | -                       | -                       | 87149                                    |
| 10            | 2                | 65                 | 9                 | 1209                    | -                       | 14380                                    |
| 11            | 3                | 74                 | 13                | 1749                    | 1866                    | 751391                                   |
| 12            | 1                | 64                 | 5                 | -                       | -                       | 281472                                   |
| 13            | 1                | 88                 | 9                 | -                       | -                       | 125833                                   |
| 14            | 1                | 53                 | 20                | -                       | -                       | 278472                                   |

**40 MHz Master - Trial 7**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 2                | 89                 | 9                 | 1205                    | -                       | 98166                                    |
| 2             | 3                | 67                 | 13                | 1712                    | 1757                    | 502229                                   |
| 3             | 3                | 81                 | 14                | 1454                    | 1016                    | 34562                                    |
| 4             | 2                | 77                 | 18                | 1804                    | -                       | 696161                                   |
| 5             | 3                | 91                 | 13                | 1132                    | 1294                    | 861831                                   |
| 6             | 3                | 61                 | 5                 | 1400                    | 1983                    | 769290                                   |
| 7             | 3                | 62                 | 13                | 1270                    | 1411                    | 53529                                    |
| 8             | 2                | 69                 | 12                | 1533                    | -                       | 449830                                   |
| 9             | 2                | 83                 | 7                 | 1843                    | -                       | 119819                                   |
| 10            | 1                | 85                 | 11                | -                       | -                       | 458796                                   |
| 11            | 2                | 81                 | 18                | 1481                    | -                       | 611806                                   |
| 12            | 3                | 70                 | 11                | 1659                    | 1483                    | 673320                                   |
| 13            | 1                | 88                 | 17                | -                       | -                       | 693591                                   |

**40 MHz Master - Trial 8**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 2                | 89                 | 20                | 1475                    | -                       | 355897                                   |
| 2             | 2                | 63                 | 11                | 1328                    | -                       | 1144022                                  |
| 3             | 2                | 56                 | 6                 | 1713                    | -                       | 258072                                   |
| 4             | 1                | 99                 | 12                | -                       | -                       | 262956                                   |
| 5             | 1                | 71                 | 5                 | -                       | -                       | 727672                                   |
| 6             | 2                | 83                 | 7                 | 1720                    | -                       | 10098                                    |
| 7             | 3                | 67                 | 18                | 1881                    | 1411                    | 749723                                   |
| 8             | 2                | 62                 | 16                | 1956                    | -                       | 239725                                   |
| 9             | 1                | 67                 | 11                | -                       | -                       | 183069                                   |
| 10            | 3                | 75                 | 9                 | 1304                    | 1947                    | 319767                                   |

**40 MHz Master - Trial 9**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 1                | 63                 | 13                | -                       | -                       | 486380                                   |
| 2             | 3                | 73                 | 7                 | 1526                    | 1813                    | 151081                                   |
| 3             | 3                | 63                 | 15                | 1986                    | 1127                    | 546412                                   |
| 4             | 3                | 73                 | 6                 | 1970                    | 1586                    | 12312                                    |
| 5             | 1                | 51                 | 18                | -                       | -                       | 24982                                    |
| 6             | 3                | 95                 | 20                | 1398                    | 1829                    | 710959                                   |
| 7             | 3                | 70                 | 7                 | 1553                    | 1322                    | 813771                                   |
| 8             | 3                | 58                 | 6                 | 1211                    | 1143                    | 32987                                    |
| 9             | 2                | 54                 | 17                | 1167                    | -                       | 536893                                   |
| 10            | 3                | 77                 | 18                | 1862                    | 1298                    | 756708                                   |
| 11            | 1                | 100                | 13                | -                       | -                       | 602169                                   |
| 12            | 3                | 79                 | 9                 | 1588                    | 1414                    | 308881                                   |
| 13            | 3                | 76                 | 8                 | 1820                    | 1574                    | 249753                                   |

**40 MHz Master - Trial 10**

| Burst Segment | Number of Pulses | Pulse Width (µsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (µsec) | Pulse 2-to-3 PRI (µsec) | Starting Location Within Interval (µsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 2                | 97                 | 19                | 1374                    | -                       | 578945                                   |
| 2             | 1                | 77                 | 17                | -                       | -                       | 173958                                   |
| 3             | 3                | 66                 | 5                 | 1855                    | 1992                    | 604036                                   |
| 4             | 2                | 79                 | 5                 | 1564                    | -                       | 526205                                   |
| 5             | 1                | 53                 | 14                | -                       | -                       | 547787                                   |
| 6             | 2                | 87                 | 16                | 1554                    | -                       | 384825                                   |
| 7             | 2                | 67                 | 5                 | 1634                    | -                       | 470461                                   |
| 8             | 1                | 97                 | 11                | -                       | -                       | 298734                                   |
| 9             | 1                | 87                 | 20                | -                       | -                       | 580998                                   |
| 10            | 2                | 94                 | 20                | 1556                    | -                       | 372117                                   |
| 11            | 2                | 51                 | 6                 | 1664                    | -                       | 543066                                   |
| 12            | 1                | 74                 | 14                | -                       | -                       | 384449                                   |
| 13            | 2                | 53                 | 17                | 1141                    | -                       | 365452                                   |
| 14            | 3                | 60                 | 16                | 1367                    | 1306                    | 264936                                   |
| 15            | 1                | 90                 | 20                | -                       | -                       | 18935                                    |
| 16            | 1                | 86                 | 18                | -                       | -                       | 533830                                   |
| 17            | 2                | 78                 | 16                | 1873                    | -                       | 44917                                    |
| 18            | 1                | 68                 | 13                | -                       | -                       | 337740                                   |

**40 MHz Master - Trial 11**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 2                | 100                | 7                 | 1103                    | -                       | 392404                                   |
| 2             | 2                | 67                 | 16                | 1151                    | -                       | 120208                                   |
| 3             | 1                | 84                 | 17                | -                       | -                       | 319982                                   |
| 4             | 2                | 57                 | 11                | 1551                    | -                       | 28578                                    |
| 5             | 1                | 77                 | 6                 | -                       | -                       | 117122                                   |
| 6             | 3                | 62                 | 5                 | 1658                    | 1189                    | 429920                                   |
| 7             | 3                | 59                 | 12                | 1696                    | 1861                    | 525263                                   |
| 8             | 1                | 62                 | 5                 | -                       | -                       | 107458                                   |
| 9             | 2                | 84                 | 11                | 1559                    | -                       | 399100                                   |
| 10            | 3                | 85                 | 17                | 1190                    | 1229                    | 573167                                   |
| 11            | 3                | 91                 | 12                | 1463                    | 1326                    | 266618                                   |
| 12            | 3                | 74                 | 18                | 1598                    | 1923                    | 102764                                   |
| 13            | 1                | 59                 | 20                | -                       | -                       | 346214                                   |
| 14            | 3                | 96                 | 15                | 1336                    | 1911                    | 231341                                   |
| 15            | 2                | 83                 | 10                | 1117                    | -                       | 344888                                   |
| 16            | 2                | 94                 | 13                | 1252                    | -                       | 294542                                   |
| 17            | 3                | 89                 | 8                 | 1388                    | 1969                    | 145992                                   |
| 18            | 2                | 71                 | 12                | 1772                    | -                       | 115975                                   |
| 19            | 2                | 74                 | 13                | 1412                    | -                       | 240079                                   |

**40 MHz Master - Trial 12**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 1                | 86                 | 18                | -                       | -                       | 390207                                   |
| 2             | 3                | 50                 | 11                | 1424                    | 1838                    | 70927                                    |
| 3             | 1                | 94                 | 9                 | -                       | -                       | 444001                                   |
| 4             | 1                | 67                 | 12                | -                       | -                       | 152739                                   |
| 5             | 1                | 99                 | 14                | -                       | -                       | 434975                                   |
| 6             | 3                | 69                 | 9                 | 1843                    | 1139                    | 137495                                   |
| 7             | 3                | 58                 | 18                | 1706                    | 1166                    | 684403                                   |
| 8             | 2                | 92                 | 11                | 1947                    | -                       | 49956                                    |
| 9             | 3                | 92                 | 20                | 1131                    | 1137                    | 243993                                   |
| 10            | 2                | 61                 | 7                 | 1878                    | -                       | 169165                                   |
| 11            | 1                | 65                 | 7                 | -                       | -                       | 313878                                   |
| 12            | 1                | 84                 | 20                | -                       | -                       | 350719                                   |
| 13            | 1                | 52                 | 18                | -                       | -                       | 153408                                   |
| 14            | 2                | 83                 | 8                 | 1502                    | -                       | 532029                                   |
| 15            | 2                | 98                 | 12                | 1947                    | -                       | 379853                                   |
| 16            | 1                | 73                 | 7                 | -                       | -                       | 484381                                   |

**40 MHz Master - Trial 13**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 2                | 52                 | 16                | 1610                    | -                       | 884102                                   |
| 2             | 1                | 79                 | 7                 | -                       | -                       | 505799                                   |
| 3             | 2                | 88                 | 19                | 1964                    | -                       | 792479                                   |
| 4             | 3                | 84                 | 5                 | 1912                    | 1623                    | 320794                                   |
| 5             | 2                | 95                 | 18                | 1825                    | -                       | 816978                                   |
| 6             | 1                | 70                 | 9                 | -                       | -                       | 471543                                   |
| 7             | 1                | 85                 | 9                 | -                       | -                       | 350774                                   |
| 8             | 1                | 68                 | 11                | -                       | -                       | 498426                                   |
| 9             | 2                | 95                 | 19                | 1032                    | -                       | 464829                                   |
| 10            | 3                | 99                 | 20                | 1455                    | 1997                    | 561610                                   |
| 11            | 1                | 91                 | 6                 | -                       | -                       | 513635                                   |
| 12            | 2                | 65                 | 20                | 1706                    | -                       | 216221                                   |
| 13            | 3                | 86                 | 16                | 1901                    | 1303                    | 594470                                   |

**40 MHz Master - Trial 14**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 3                | 73                 | 13                | 1743                    | 1489                    | 520923                                   |
| 2             | 1                | 79                 | 5                 | -                       | -                       | 724926                                   |
| 3             | 1                | 99                 | 8                 | -                       | -                       | 855932                                   |
| 4             | 3                | 72                 | 8                 | 1795                    | 1264                    | 685425                                   |
| 5             | 1                | 57                 | 17                | -                       | -                       | 83027                                    |
| 6             | 1                | 83                 | 7                 | -                       | -                       | 642023                                   |
| 7             | 3                | 58                 | 20                | 1729                    | 1858                    | 312976                                   |
| 8             | 1                | 75                 | 20                | -                       | -                       | 253610                                   |
| 9             | 1                | 75                 | 15                | -                       | -                       | 545707                                   |
| 10            | 2                | 90                 | 20                | 1014                    | -                       | 497067                                   |
| 11            | 2                | 51                 | 9                 | 1516                    | -                       | 105602                                   |
| 12            | 1                | 98                 | 10                | -                       | -                       | 682500                                   |

**40 MHz Master - Trial 15**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 2                | 75                 | 18                | 1348                    | -                       | 353976                                   |
| 2             | 3                | 93                 | 16                | 1588                    | 1107                    | 628381                                   |
| 3             | 3                | 68                 | 12                | 1970                    | 1674                    | 541629                                   |
| 4             | 1                | 75                 | 14                | -                       | -                       | 693693                                   |
| 5             | 1                | 61                 | 7                 | -                       | -                       | 561478                                   |
| 6             | 2                | 71                 | 15                | 1891                    | -                       | 485269                                   |
| 7             | 3                | 100                | 12                | 1806                    | 1518                    | 527761                                   |
| 8             | 1                | 57                 | 7                 | -                       | -                       | 485726                                   |
| 9             | 3                | 53                 | 11                | 1907                    | 1604                    | 464009                                   |
| 10            | 3                | 91                 | 13                | 1432                    | 1268                    | 667868                                   |
| 11            | 3                | 54                 | 16                | 1324                    | 1276                    | 460748                                   |
| 12            | 2                | 95                 | 11                | 1201                    | -                       | 590030                                   |
| 13            | 3                | 60                 | 19                | 1262                    | 1557                    | 680987                                   |
| 14            | 1                | 69                 | 15                | -                       | -                       | 587638                                   |
| 15            | 3                | 95                 | 19                | 1710                    | 1319                    | 396567                                   |
| 16            | 1                | 97                 | 14                | -                       | -                       | 70561                                    |
| 17            | 2                | 71                 | 20                | 1166                    | -                       | 263172                                   |

**40 MHz Master - Trial 16**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 1                | 74                 | 15                | -                       | -                       | 788210                                   |
| 2             | 1                | 63                 | 12                | -                       | -                       | 295960                                   |
| 3             | 2                | 85                 | 16                | 1398                    | -                       | 156507                                   |
| 4             | 3                | 66                 | 5                 | 1641                    | 1117                    | 6843                                     |
| 5             | 1                | 90                 | 14                | -                       | -                       | 1275389                                  |
| 6             | 1                | 71                 | 20                | -                       | -                       | 1080078                                  |
| 7             | 1                | 69                 | 12                | -                       | -                       | 345460                                   |
| 8             | 3                | 95                 | 12                | 1775                    | 1744                    | 973797                                   |
| 9             | 1                | 78                 | 13                | -                       | -                       | 536932                                   |

**40 MHz Master - Trial 17**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 1                | 81                 | 18                | -                       | -                       | 519940                                   |
| 2             | 3                | 90                 | 17                | 1402                    | 1781                    | 584500                                   |
| 3             | 1                | 59                 | 9                 | -                       | -                       | 408760                                   |
| 4             | 2                | 78                 | 7                 | 1313                    | -                       | 314647                                   |
| 5             | 2                | 93                 | 5                 | 1439                    | -                       | 674996                                   |
| 6             | 2                | 83                 | 5                 | 1584                    | -                       | 228491                                   |
| 7             | 2                | 78                 | 12                | 1778                    | -                       | 60570                                    |
| 8             | 2                | 67                 | 8                 | 1682                    | -                       | 107654                                   |
| 9             | 1                | 66                 | 20                | -                       | -                       | 491742                                   |
| 10            | 2                | 79                 | 16                | 1156                    | -                       | 138145                                   |
| 11            | 1                | 59                 | 18                | -                       | -                       | 169758                                   |
| 12            | 1                | 50                 | 18                | -                       | -                       | 140382                                   |
| 13            | 1                | 96                 | 8                 | -                       | -                       | 111901                                   |
| 14            | 3                | 59                 | 6                 | 1175                    | 1268                    | 503400                                   |
| 15            | 2                | 61                 | 7                 | 1183                    | -                       | 230820                                   |
| 16            | 2                | 58                 | 11                | 1068                    | -                       | 610718                                   |
| 17            | 1                | 50                 | 11                | -                       | -                       | 573551                                   |

**40 MHz Master - Trial 18**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 3                | 68                 | 7                 | 1742                    | 1323                    | 283764                                   |
| 2             | 3                | 61                 | 8                 | 1154                    | 1316                    | 387939                                   |
| 3             | 3                | 65                 | 7                 | 1900                    | 1521                    | 135926                                   |
| 4             | 3                | 64                 | 19                | 1015                    | 1041                    | 729001                                   |
| 5             | 2                | 54                 | 16                | 1938                    | -                       | 847963                                   |
| 6             | 3                | 58                 | 13                | 1415                    | 1660                    | 733888                                   |
| 7             | 3                | 97                 | 11                | 1945                    | 1383                    | 547896                                   |
| 8             | 3                | 100                | 5                 | 1010                    | 1037                    | 141655                                   |
| 9             | 1                | 97                 | 20                | -                       | -                       | 684920                                   |
| 10            | 3                | 76                 | 13                | 1564                    | 1850                    | 271502                                   |
| 11            | 1                | 68                 | 8                 | -                       | -                       | 549288                                   |
| 12            | 3                | 62                 | 10                | 1985                    | 1789                    | 33241                                    |
| 13            | 2                | 72                 | 10                | 1967                    | -                       | 74856                                    |
| 14            | 1                | 74                 | 15                | -                       | -                       | 807591                                   |

**40 MHz Master - Trial 19**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 1                | 92                 | 10                | -                       | -                       | 1372133                                  |
| 2             | 2                | 50                 | 5                 | 1079                    | -                       | 474349                                   |
| 3             | 1                | 95                 | 6                 | -                       | -                       | 14745                                    |
| 4             | 2                | 82                 | 6                 | 1702                    | -                       | 1112467                                  |
| 5             | 3                | 88                 | 15                | 1044                    | 1222                    | 1495587                                  |
| 6             | 3                | 84                 | 14                | 1001                    | 1712                    | 955651                                   |
| 7             | 1                | 95                 | 14                | -                       | -                       | 1222718                                  |
| 8             | 1                | 72                 | 5                 | -                       | -                       | 492132                                   |

**40 MHz Master - Trial 20**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 3                | 60                 | 8                 | 1668                    | 1777                    | 231027                                   |
| 2             | 1                | 72                 | 17                | -                       | -                       | 486763                                   |
| 3             | 1                | 76                 | 16                | -                       | -                       | 1250415                                  |
| 4             | 1                | 69                 | 20                | -                       | -                       | 928463                                   |
| 5             | 2                | 54                 | 19                | 1396                    | -                       | 34516                                    |
| 6             | 2                | 84                 | 20                | 1995                    | -                       | 710657                                   |
| 7             | 1                | 60                 | 8                 | -                       | -                       | 39926                                    |
| 8             | 2                | 84                 | 20                | 1545                    | -                       | 626956                                   |

**40 MHz Master - Trial 21**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 2                | 93                 | 14                | 1248                    | -                       | 811223                                   |
| 2             | 3                | 85                 | 7                 | 1300                    | 1056                    | 434744                                   |
| 3             | 2                | 67                 | 18                | 1702                    | -                       | 243847                                   |
| 4             | 1                | 71                 | 8                 | -                       | -                       | 873795                                   |
| 5             | 3                | 90                 | 7                 | 1765                    | 1237                    | 595544                                   |
| 6             | 1                | 100                | 7                 | -                       | -                       | 65018                                    |
| 7             | 3                | 82                 | 20                | 1592                    | 1173                    | 489615                                   |
| 8             | 2                | 82                 | 14                | 1346                    | -                       | 679536                                   |
| 9             | 2                | 84                 | 20                | 1038                    | -                       | 752857                                   |
| 10            | 3                | 68                 | 10                | 1129                    | 1492                    | 551488                                   |
| 11            | 2                | 77                 | 11                | 1643                    | -                       | 683270                                   |
| 12            | 3                | 50                 | 8                 | 1544                    | 1690                    | 982637                                   |

**40 MHz Master - Trial 22**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 1                | 90                 | 12                | -                       | -                       | 812173                                   |
| 2             | 2                | 60                 | 17                | 1538                    | -                       | 921242                                   |
| 3             | 3                | 59                 | 11                | 1129                    | 1221                    | 789969                                   |
| 4             | 2                | 87                 | 17                | 1673                    | -                       | 11054                                    |
| 5             | 2                | 65                 | 9                 | 1411                    | -                       | 224706                                   |
| 6             | 2                | 91                 | 15                | 1631                    | -                       | 401287                                   |
| 7             | 3                | 100                | 14                | 1438                    | 1734                    | 265240                                   |
| 8             | 1                | 56                 | 16                | -                       | -                       | 125476                                   |
| 9             | 2                | 98                 | 16                | 1513                    | -                       | 382582                                   |
| 10            | 3                | 76                 | 12                | 1102                    | 1528                    | 528397                                   |
| 11            | 3                | 50                 | 20                | 1662                    | 1906                    | 553813                                   |

**40 MHz Master - Trial 23**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 2                | 56                 | 11                | 1088                    | -                       | 1359823                                  |
| 2             | 2                | 52                 | 8                 | 1870                    | -                       | 1035058                                  |
| 3             | 2                | 74                 | 8                 | 1606                    | -                       | 104610                                   |
| 4             | 2                | 82                 | 14                | 1591                    | -                       | 1157320                                  |
| 5             | 1                | 63                 | 5                 | -                       | -                       | 515507                                   |
| 6             | 2                | 55                 | 19                | 1031                    | -                       | 1459783                                  |
| 7             | 2                | 89                 | 18                | 1735                    | -                       | 291834                                   |
| 8             | 2                | 79                 | 16                | 1288                    | -                       | 69951                                    |

**40 MHz Master - Trial 24**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 2                | 57                 | 6                 | 1823                    | -                       | 1167955                                  |
| 2             | 2                | 66                 | 19                | 1702                    | -                       | 550817                                   |
| 3             | 2                | 52                 | 10                | 1737                    | -                       | 16494                                    |
| 4             | 1                | 55                 | 5                 | -                       | -                       | 632553                                   |
| 5             | 3                | 80                 | 5                 | 1228                    | 1279                    | 1095413                                  |
| 6             | 2                | 88                 | 5                 | 1020                    | -                       | 592616                                   |
| 7             | 3                | 67                 | 14                | 1361                    | 1299                    | 1090954                                  |
| 8             | 1                | 59                 | 10                | -                       | -                       | 1129723                                  |
| 9             | 3                | 50                 | 10                | 1514                    | 1249                    | 877768                                   |
| 10            | 2                | 100                | 7                 | 1304                    | -                       | 557564                                   |

**40 MHz Master - Trial 25**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 3                | 62                 | 15                | 1464                    | 1921                    | 597235                                   |
| 2             | 3                | 66                 | 18                | 1294                    | 1859                    | 154600                                   |
| 3             | 2                | 100                | 12                | 1954                    | -                       | 327207                                   |
| 4             | 1                | 55                 | 19                | -                       | -                       | 518344                                   |
| 5             | 2                | 50                 | 14                | 1679                    | -                       | 534466                                   |
| 6             | 1                | 59                 | 7                 | -                       | -                       | 562291                                   |
| 7             | 3                | 86                 | 5                 | 1195                    | 1585                    | 247177                                   |
| 8             | 3                | 92                 | 20                | 1378                    | 1286                    | 40856                                    |
| 9             | 1                | 75                 | 7                 | -                       | -                       | 92327                                    |
| 10            | 3                | 62                 | 9                 | 1559                    | 1560                    | 58597                                    |
| 11            | 1                | 78                 | 20                | -                       | -                       | 131204                                   |
| 12            | 1                | 52                 | 17                | -                       | -                       | 154579                                   |
| 13            | 3                | 87                 | 7                 | 1123                    | 1455                    | 106523                                   |
| 14            | 1                | 71                 | 11                | -                       | -                       | 104608                                   |
| 15            | 1                | 80                 | 6                 | -                       | -                       | 542984                                   |
| 16            | 2                | 82                 | 13                | 1522                    | -                       | 334624                                   |

**40 MHz Master - Trial 26**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 3                | 89                 | 19                | 1589                    | 1189                    | 606013                                   |
| 2             | 2                | 74                 | 8                 | 1410                    | -                       | 84246                                    |
| 3             | 3                | 52                 | 17                | 1608                    | 1560                    | 707862                                   |
| 4             | 3                | 51                 | 5                 | 1946                    | 1482                    | 670070                                   |
| 5             | 1                | 66                 | 20                | -                       | -                       | 773303                                   |
| 6             | 2                | 96                 | 10                | 1658                    | -                       | 561392                                   |
| 7             | 2                | 61                 | 11                | 1994                    | -                       | 644324                                   |
| 8             | 2                | 97                 | 16                | 1628                    | -                       | 557071                                   |
| 9             | 1                | 50                 | 5                 | -                       | -                       | 436717                                   |
| 10            | 2                | 66                 | 6                 | 1069                    | -                       | 597630                                   |
| 11            | 2                | 74                 | 12                | 1610                    | -                       | 264877                                   |
| 12            | 3                | 90                 | 9                 | 1232                    | 1794                    | 29648                                    |
| 13            | 2                | 96                 | 17                | 1402                    | -                       | 67366                                    |
| 14            | 3                | 70                 | 14                | 1753                    | 1310                    | 9661                                     |
| 15            | 2                | 69                 | 8                 | 1298                    | -                       | 670889                                   |

**40 MHz Master - Trial 27**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 3                | 70                 | 15                | 1362                    | 1850                    | 765428                                   |
| 2             | 1                | 61                 | 7                 | -                       | -                       | 827173                                   |
| 3             | 1                | 52                 | 5                 | -                       | -                       | 428256                                   |
| 4             | 3                | 95                 | 14                | 1137                    | 1273                    | 331305                                   |
| 5             | 2                | 73                 | 16                | 1935                    | -                       | 666422                                   |
| 6             | 1                | 72                 | 13                | -                       | -                       | 185681                                   |
| 7             | 1                | 68                 | 5                 | -                       | -                       | 127840                                   |
| 8             | 3                | 73                 | 18                | 1154                    | 1676                    | 946030                                   |
| 9             | 2                | 83                 | 7                 | 1933                    | -                       | 263997                                   |

**40 MHz Master - Trial 28**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 2                | 87                 | 20                | 1310                    | -                       | 441556                                   |
| 2             | 3                | 55                 | 5                 | 1591                    | 1458                    | 323442                                   |
| 3             | 3                | 85                 | 18                | 1533                    | 1138                    | 525528                                   |
| 4             | 1                | 54                 | 9                 | -                       | -                       | 26736                                    |
| 5             | 3                | 65                 | 18                | 1875                    | 1748                    | 911756                                   |
| 6             | 2                | 97                 | 14                | 1450                    | -                       | 528040                                   |
| 7             | 2                | 80                 | 20                | 1577                    | -                       | 447290                                   |
| 8             | 1                | 85                 | 9                 | -                       | -                       | 252456                                   |
| 9             | 1                | 75                 | 8                 | -                       | -                       | 146092                                   |
| 10            | 1                | 72                 | 18                | -                       | -                       | 178368                                   |
| 11            | 1                | 57                 | 6                 | -                       | -                       | 852633                                   |
| 12            | 3                | 65                 | 14                | 1434                    | 1138                    | 435283                                   |

**40 MHz Master - Trial 29**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 3                | 84                 | 6                 | 1008                    | 1007                    | 559924                                   |
| 2             | 1                | 55                 | 19                | -                       | -                       | 674948                                   |
| 3             | 3                | 64                 | 11                | 1792                    | 1005                    | 12533                                    |
| 4             | 2                | 52                 | 16                | 1717                    | -                       | 210311                                   |
| 5             | 1                | 62                 | 16                | -                       | -                       | 313510                                   |
| 6             | 2                | 84                 | 14                | 1298                    | -                       | 243449                                   |
| 7             | 1                | 65                 | 17                | -                       | -                       | 1887                                     |
| 8             | 2                | 78                 | 19                | 1497                    | -                       | 169382                                   |
| 9             | 2                | 51                 | 10                | 1896                    | -                       | 156366                                   |
| 10            | 2                | 93                 | 16                | 1060                    | -                       | 659254                                   |
| 11            | 1                | 57                 | 11                | -                       | -                       | 306489                                   |
| 12            | 3                | 70                 | 17                | 1437                    | 1348                    | 396402                                   |
| 13            | 2                | 56                 | 13                | 1803                    | -                       | 403569                                   |
| 14            | 3                | 69                 | 12                | 1381                    | 1372                    | 307204                                   |
| 15            | 1                | 98                 | 18                | -                       | -                       | 249875                                   |
| 16            | 3                | 98                 | 8                 | 1025                    | 1232                    | 410513                                   |
| 17            | 2                | 81                 | 15                | 1011                    | -                       | 144559                                   |

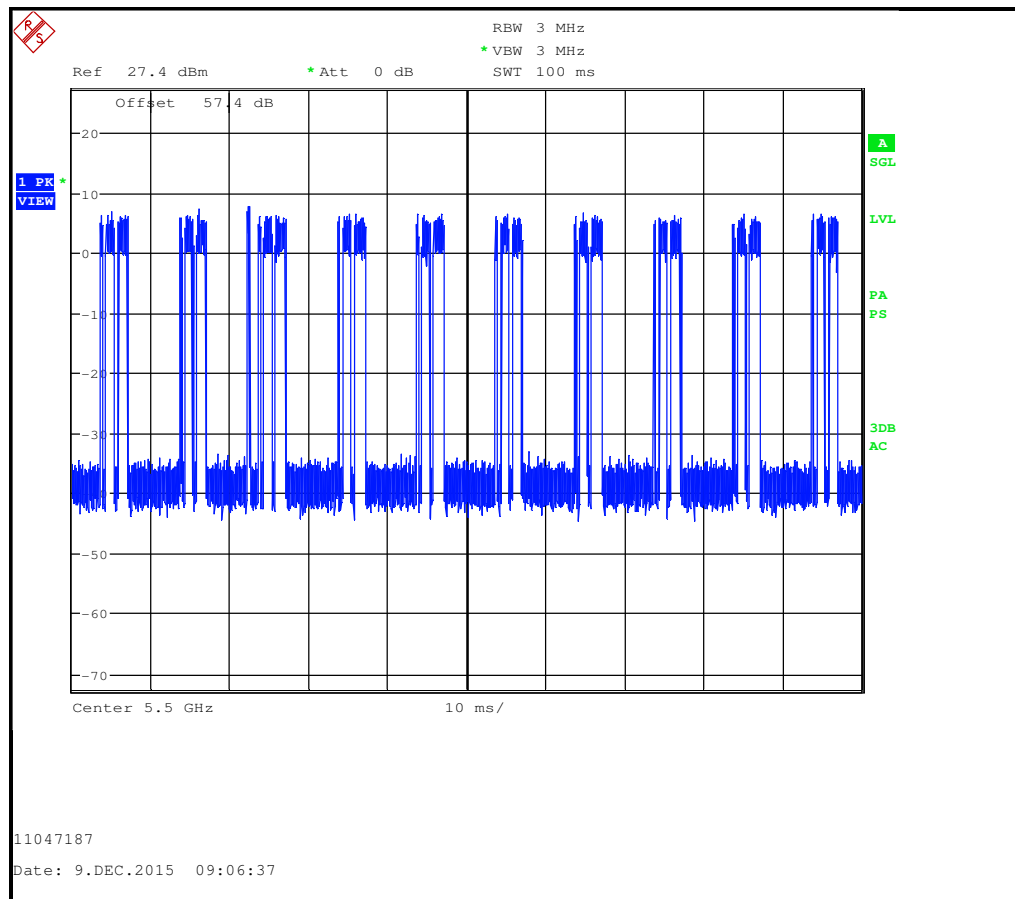
**40 MHz Master - Trial 30**

| Burst Segment | Number of Pulses | Pulse Width (μsec) | Chirp Width (MHz) | Pulse 1-to-2 PRI (μsec) | Pulse 2-to-3 PRI (μsec) | Starting Location Within Interval (μsec) |
|---------------|------------------|--------------------|-------------------|-------------------------|-------------------------|------------------------------------------|
| 1             | 3                | 54                 | 14                | 1653                    | 1131                    | 402619                                   |
| 2             | 3                | 79                 | 8                 | 1484                    | 1544                    | 226371                                   |
| 3             | 2                | 56                 | 11                | 1336                    | -                       | 485528                                   |
| 4             | 2                | 59                 | 7                 | 1560                    | -                       | 56475                                    |
| 5             | 1                | 72                 | 13                | -                       | -                       | 290157                                   |
| 6             | 1                | 99                 | 5                 | -                       | -                       | 355828                                   |
| 7             | 3                | 90                 | 10                | 1048                    | 1506                    | 262182                                   |
| 8             | 3                | 86                 | 9                 | 1524                    | 1026                    | 165938                                   |
| 9             | 1                | 60                 | 11                | -                       | -                       | 623624                                   |
| 10            | 2                | 55                 | 8                 | 1295                    | -                       | 652442                                   |
| 11            | 1                | 91                 | 5                 | -                       | -                       | 145302                                   |
| 12            | 3                | 53                 | 7                 | 1091                    | 1721                    | 320686                                   |
| 13            | 3                | 78                 | 16                | 1606                    | 1753                    | 670123                                   |
| 14            | 2                | 81                 | 5                 | 1562                    | -                       | 683283                                   |
| 15            | 1                | 83                 | 7                 | -                       | -                       | 228313                                   |
| 16            | 3                | 91                 | 5                 | 1678                    | 1794                    | 8152                                     |
| 17            | 3                | 87                 | 14                | 1717                    | 1971                    | 241376                                   |

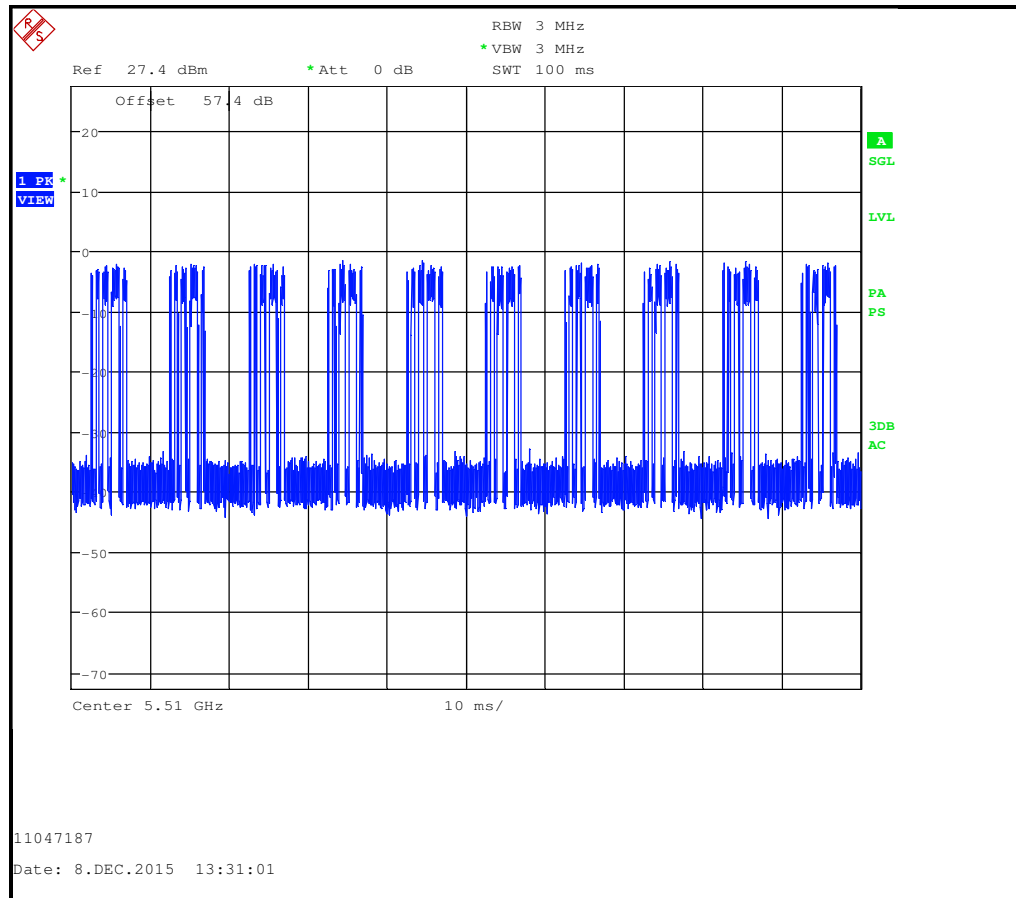
## **Appendix 10. Channel Loading**

UDP data was transmitted from the EUT to the companion device. 100 ms of transmissions showing both the EUT and companion device were then captured on a spectrum analyser in the time domain. The spectrum analyser was set to 30,001 sweep points giving a sample size accuracy of 3.333  $\mu$ sec. The data points were then exported as an ASCII file and each sample determined to be either transmissions from the EUT or companion device (channel loading) or idle. The duty cycle was then calculated from this ratio.

Included below are spectrum analyser plots from which the raw data was extracted to calculate the channel loading.



**26.3% Channel Loading at 20 MHz Bandwidth**



24.2% Channel Loading at 40 MHz Bandwidth

--- END OF REPORT ---