

# DFS MEASUREMENT REPORT

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**FCC ID:** VW3FAST5290V2  
**Applicant:** SAGEMCOM BROADBAND SAS  
**Product:** Fiber Wireless Router FWR226e  
**Model No.:** FAST 5290  
**Brand Name:** SAGEMCOM  
**FCC Classification:** Unlicensed National Information Infrastructure (NII)  
**FCC Rule Part(s):** Part 15 Subpart E (Section 15.407)  
**Result:** Complies  
**Test Date:** May 05 ~ May 07, 2022

**Reviewed By:**

\_\_\_\_\_  
Sunny Sun

**Approved By:**

\_\_\_\_\_  
Robin Wu



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

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### Revision History

Report No.	Version	Description	Issue Date	Note
2202RSU047-U7	Rev. 01	Initial Report	05-24-2022	Valid

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## 1. General Information

### 1.1. Applicant

SAGEMCOM BROADBAND SAS

250 Route de l'Empereur - 92848 RUEIL MALMAISON CEDEX- FRANCE

### 1.2. Manufacturer

SAGEMCOM BROADBAND SAS

250 Route de l'Empereur - 92848 RUEIL MALMAISON CEDEX- FRANCE

### 1.3. Testing Facility

<input checked="" type="checkbox"/>	<p><b>Test Site - MRT Suzhou Laboratory</b></p> <hr/> <p><b>Laboratory Location (Suzhou - Wuzhong)</b> D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China</p> <p><b>Laboratory Location (Suzhou - SIP)</b> 4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China</p> <hr/> <p><b>Laboratory Accreditations</b></p> <p>A2LA: 3628.01 <span style="float: right;">CNAS: L10551</span></p> <p>FCC: CN1166 <span style="float: right;">ISED: CN0001</span></p> <p>VCCI: <input type="checkbox"/>R-20025 <input type="checkbox"/>G-20034 <input type="checkbox"/>C-20020 <input type="checkbox"/>T-20020</p> <p style="padding-left: 100px;"><input type="checkbox"/>R-20141 <input type="checkbox"/>G-20134 <input type="checkbox"/>C-20103 <input type="checkbox"/>T-20104</p>
<input type="checkbox"/>	<p><b>Test Site - MRT Shenzhen Laboratory</b></p> <hr/> <p><b>Laboratory Location (Shenzhen)</b> 1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China</p> <hr/> <p><b>Laboratory Accreditations</b></p> <p>A2LA: 3628.02 <span style="float: right;">CNAS: L10551</span></p> <p>FCC: CN1284 <span style="float: right;">ISED: CN0105</span></p>
<input type="checkbox"/>	<p><b>Test Site - MRT Taiwan Laboratory</b></p> <hr/> <p><b>Laboratory Location (Taiwan)</b> No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)</p> <hr/> <p><b>Laboratory Accreditations</b></p> <p>TAF: L3261-190725</p> <p>FCC: 291082, TW3261 <span style="float: right;">ISED: TW3261</span></p>

#### 1.4. Product Information

Product Name	Fiber Wireless Router FWR226e
Model No.	FAST 5290
EUT Identification No.	20220223Sample#10
Wi-Fi Specification	802.11b/g/n/ac/ax
Antenna Information	Refer to Section 1.7
Power Type	AC Adapter
Operating Environment	Indoor Use
Accessories	
Adapter 1#	MODEL: MS-V4100R120-050A0-US INPUT: 100-127V ~ 50/60Hz Max 1.3A OUTPUT: 12V=4.1A
Adapter 2#	MODEL: ADS-50FKI-12 12049EPCU-L INPUT: 100-127V ~ 50/60Hz Max 1.2A OUTPUT: 12V=4.1A
Adapter 3#	MODEL: NBS50A120410VU INPUT: 100-127V ~ 50/60Hz Max 1.5A OUTPUT: 12V=4.1A
Remark: 1. The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer. 2. For this report, we select Adapter 1# for testing.	

### 1.5. Radio Specification under Test

Frequency Range	For 802.11a/n-HT20/ac-VHT20/ax-HE20: 5260 ~ 5320MHz, 5500 ~ 5720 MHz For 802.11n-HT40/ac-VHT40/ax-HE40: 5270 ~ 5310MHz, 5510 ~ 5710 MHz For 802.11ac-VHT80/ax-HE80: 5290MHz, 5530MHz, 5610MHz, 5690MHz For 802.11ac-VHT160/ax-HE160: 5250MHz, 5570MHz
Type of Modulation	802.11a/n/ac: OFDM 802.11ax: OFDMA
Data Rate	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 600Mbps 802.11ac: up to 3466.7Mbps 802.11ax: up to 4804Mbps
Power-on cycle	Requires 75.8 seconds to complete its power-on cycle
Uniform Spreading (For DFS Frequency Band)	For the 5250 ~ 5350MHz, 5470 ~ 5725 MHz bands, the Master device provides, on aggregate, uniform loading of the spectrum across all devices by selecting an operating channel among the available channels using a random algorithm.

Note: For other features of this EUT, test report will be issued separately.

## 1.6. Working Frequencies

### 802.11a/n-HT20/ac-VHT20/ax-HE20

Channel	Frequency	Channel	Frequency	Channel	Frequency
52	5260 MHz	56	5280 MHz	60	5300 MHz
64	5320 MHz	100	5500 MHz	104	5520 MHz
108	5540 MHz	112	5560 MHz	116	5580 MHz
120	5600 MHz	124	5620 MHz	128	5640 MHz
132	5660 MHz	136	5680 MHz	140	5700 MHz
144	5720 MHz	--	--	--	--

### 802.11n-HT40/ac-VHT40/ax-HE40

Channel	Frequency	Channel	Frequency	Channel	Frequency
54	5270 MHz	62	5310 MHz	102	5510 MHz
110	5550 MHz	118	5590 MHz	126	5630 MHz
134	5670 MHz	142	5710 MHz	--	--

### 802.11ac-VHT80/ax-HE80

Channel	Frequency	Channel	Frequency	Channel	Frequency
58	5290 MHz	106	5530 MHz	122	5610 MHz
138	5690 MHz	--	--	--	--

### 802.11ac-VHT160/ax-HE160

Channel	Frequency	Channel	Frequency	Channel	Frequency
50	5250 MHz	114	5570 MHz	--	--



**1.7. Antenna Details**

Antenna Type	Frequency Band (GHz)	Antenna Gain (dBi)				Directional Gain (dBi)	
		Ant 0	Ant 1	Ant 2	Ant 3	For Power	For PSD
Wi-Fi Antenna (2.4G 3*3 MIMO)							
PCB	2.4 ~ 2.4835	4.12	3.66	2.01	--	4.12	4.65
Wi-Fi Antenna (5G 4*4 MIMO)							
PCB	5.15 ~ 5.85	4.52	5.10	5.33	5.58	5.58	5.91
Wi-Fi Antenna (6G 4*4 MIMO)							
PCB	5.925 ~ 7.125	4.68	5.79	6.18	5.95	6.18	6.29
Note 1: The antenna gain and directional gain refer to manufacturer's antenna specification. Note 2: Software automatically backs power down based on a $10\log(N)$ factor for beamforming operation. Note 3: The EUT supports Cyclic Delay Diversity (CDD) mode, and CDD signals are correlated.							
<ul style="list-style-type: none"> <li>● For power measurements: Array Gain = 0 dB for <math>N_{ANT} \leq 4</math>, the directional gain = max antenna gain + array gain</li> <li>● For power density measurements: the max directional gain (each angle) = <math>10 \cdot \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]</math> dBi.</li> </ul>							

## 2. Test Configuration

### 2.1. Test Mode

Mode 1: Operating under AP mode
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### 2.2. Test Channel

Test Mode	Test Channel	Test Frequency
802.11ax-HE20	100	5500 MHz
802.11ax-HE40	102	5510 MHz
802.11ax-HE80	106	5530 MHz
802.11ax-HE160	50	5250MHz
802.11ax-HE160	114	5570MHz

### 2.3. Applied Standards

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

- FCC Part 15.407Section (h)(2)
- KDB 905462 D02v02
- KDB 905462 D04v01

### 2.4. Test Environment Condition

Ambient Temperature	15~35°C
Relative Humidity	20 ~75%RH

### 3. DFS Detection Thresholds and Radar Test Waveforms

#### 3.1. Applicability

The following table from FCC KDB 905462 D02 NII DFS Compliance Procedures New Rules v02 lists the applicable requirements for the DFS testing.

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

**Table 3-1: Applicability of DFS Requirements Prior to Use of a Channel**

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

Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required

Note: Frequencies selected for statistical performance check should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

**Table 3-2: Applicability of DFS Requirements during normal operation**

**3.2. DFS Devices Requirements**

**Per FCC KDB 905462 D02 NII DFS Compliance Procedures New Rules v02 the following are the requirements for Master Devices:**

- (a) The Master Device will use DFS in order to detect Radar Waveforms with received signal strength above the DFS Detection Threshold in the 5250 ~ 5350 MHz and 5470 ~ 5725 MHz bands. DFS is not required in the 5150 ~ 5250 MHz or 5725 ~ 5825 MHz bands.
- (b) Before initiating a network on a Channel, the Master Device will perform a Channel Availability Check for a specified time duration (Channel Availability Check Time) to ensure that there is no radar system operating on the Channel, using DFS described under subsection a) above.
- (c) The Master Device initiates a U-NII network by transmitting control signals that will enable other U-NII devices to Associate with the Master Device.
- (d) During normal operation, the Master Device will monitor the Channel (In-Service Monitoring) to ensure that there is no radar system operating on the Channel, using DFS described under a).
- (e) If the Master Device has detected a Radar Waveform during In-Service Monitoring as described under d), the Operating Channel of the U-NII network is no longer an Available Channel. The Master Device will instruct all associated Client Device(s) to stop transmitting on this Channel within the Channel Move Time. The transmissions during the Channel Move Time will be limited to the Channel Closing Transmission Time.
- (f) Once the Master Device has detected a Radar Waveform it will not utilize the Channel for the duration of the Non-Occupancy Period.
- (g) If the Master Device delegates the In-Service Monitoring to a Client Device, then the combination will be tested to the requirements described under d) through f) above.

**Channel Move Time and Channel Closing Transmission Time requirements are listed in the following table.**

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.
Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar	

Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

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

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

**Table 3-3: DFS Response Requirements**

### 3.3. DFS Detection Threshold Values

The DFS detection thresholds are defined for Master devices and Client Devices with In-service monitoring.

These detection thresholds are listed in the following table.

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP $\geq$ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

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

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

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

**Table 3-4: Detection Thresholds for Master Devices and Client Devices with Radar Detection**

### 3.4. Parameters of DFS Test Signals

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

#### Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 3-6	$\text{Roundup} \left\{ \left( \frac{1}{360} \right) \cdot \left( \frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
Note: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					

**Table 3-5: Parameters for Short Pulse Radar Waveforms**

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms.

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

**Table 3-6: Pulse Repetition Intervals Values for Test A**

### Long Pulse Radar Test Waveform

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

**Table 3-7: Parameters for Long Pulse Radar Waveforms**

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

### Frequency Hopping Radar Test Waveform

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

**Table 3-8: Parameters for Frequency Hopping Radar Waveforms**

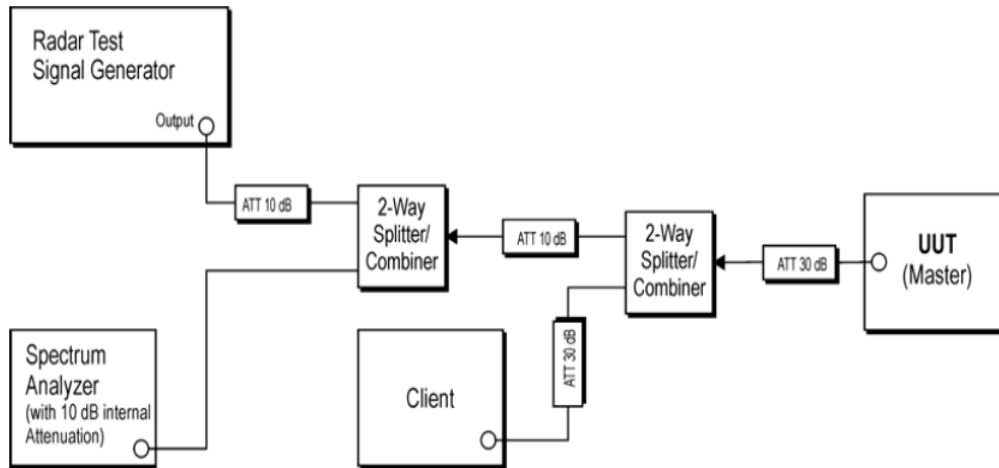
For the Frequency Hopping Radar Type, the same Burst parameters are used for each waveform. The hopping sequence is different for each waveform and a 100-length segment is selected from the hopping sequence defined by the following algorithm:

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



### 3.5. Conducted Test Setup

The FCC KDB 905462 D02 NII DFS Compliance Procedures New Rules v02 describes a radiated test setup and a conducted test setup. The conducted test setup was used for this testing. Figure 3-1 shows the typical test setup.



**Figure 3-1: Conducted Test Setup where UUT is a Master and Radar Test Waveforms are injected into the Masters**

#### 4. Measuring Instrument

Instrument	Manufacturer	Model No.	Asset No.	Last Cali. Date	Cali. Due Date	Test Site
Thermohygrometer	testo	608-H1	MRTSUE06222	1 year	2022/10/10	WZ-SR4
Signal Generator	R&S	SMBV100A	MRTSUE06279	1 year	2023/04/06	WZ-SR4
Shielding Room	HUAMING	WZ-SR4	MRTSUE06441	/	/	WZ-SR4
Signal Analyzer	Keysight	N9010B	MRTSUE06558	1 year	2022/06/24	WZ-SR4
Signal Analyzer	R&S	FSV40	MRTSUE06990	1 year	2022/10/12	WZ-SR4

#### Client Information

Instrument	Manufacturer	Type No.	Certification Number
Wi-Fi Module	Intel	AX200NGW	FCC ID: PD9AX200NG

Software	Version	Manufacturer	Function
Pulse Building	N/A	Agilent	Radar Signal Generation Software
DFS Tool	V 6.9.2	Agilent	DFS Test Software
R&S Pulse Sequencer DFS	V 2.0	R&S	DFS Test Software
DFS Tool	V2.2.0.0	Keysight	DFS Test Software

## 5. Test Result

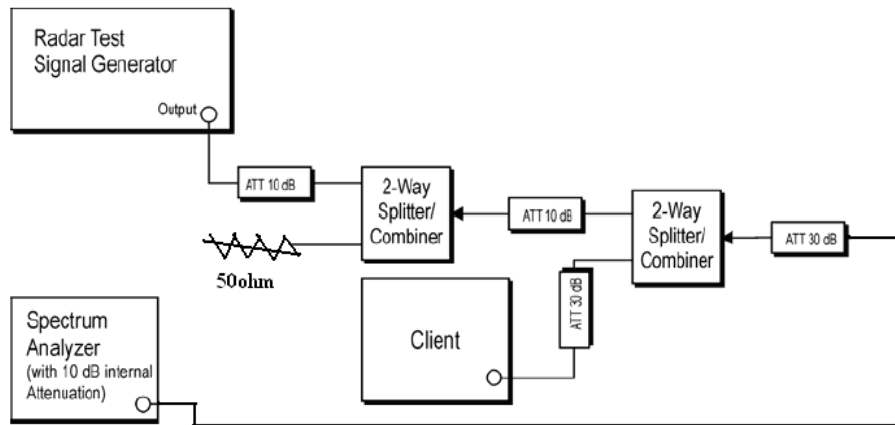
### 5.1. Summary

Parameter	Verdict	Reference
NII Detection Bandwidth Measurement	Pass	Section 5.3
Initial Channel Availability Check Time	Pass	Section 5.4
Radar Burst at the Beginning of the Channel Availability Check Time	Pass	Section 5.5
Radar Burst at the End of the Channel Availability Check Time	Pass	Section 5.6
In-Service Monitoring for Channel Move Time, Channel Closing Transmission Time	Pass	Section 5.7
Non-Occupancy Period	Pass	Section 5.7
Statistical Performance Check	Pass	Section 5.8

## 5.2. Radar Waveform Calibration Measurement

### 5.2.1. Calibration Setup

The conducted test setup was used for this calibration testing. Figure 3-2 shows the typical test setup.



**Figure 3-2: Conducted Test Setup**

### 5.2.2. Calibration Procedure

The Interference Radar Detection Threshold Level is  $(-64\text{dBm}) + (0) [\text{dBi}] + 1 \text{ dB} = -63 \text{ dBm}$  that had been taken into account the output power range and antenna gain. The above equipment setup was used to calibrate the conducted Radar Waveform. A vector signal generator was utilized to establish the test signal level for each radar type. During this process there were replace 50ohm terminal form Master and Client device and no transmissions by either the Master or Client Device. The spectrum analyzer was switched to the zero span (Time Domain) at the frequency of the Radar Waveform generator. Peak detection was used. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to at least 3MHz. The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was  $(-64\text{dBm}) + (0) [\text{dBi}] + 1 \text{ dB} = -63\text{dBm}$ . Capture the spectrum analyzer plots on short pulse radar types, long pulse radar type and hopping radar waveform.

### 5.2.3. Calibration & Channel Loading Result

Refer to Appendix A.1.

### 5.3. NII Detection Bandwidth Measurement

#### 5.3.1. Test Limit

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

#### 5.3.2. Test Procedure

1. Adjust the equipment to produce a single Burst of any one of the Short Pulse Radar Types 0-4 in Table 3-5 at the center frequency of the EUT Operating Channel at the specified DFS Detection Threshold level.
2. The generating equipment is configured as shown in the Conducted Test Setup above section 3.5.
3. The EUT is set up as a stand-alone device (no associated Client or Master, as appropriate) and no traffic. Frame based systems will be set to a talk/listen ratio reflecting the worst case (maximum) that is user configurable during this test.
4. Generate a single radar Burst, and note the response of the EUT. Repeat for a minimum of 10 trials. The EUT must detect the Radar Waveform using the specified U-NII Detection Bandwidth criterion shown in Table 3-5. In cases where the channel bandwidth may exceed past the DFS band edge on specific channels (i.e., 802.11ac or wideband frame based systems) select a channel that has the entire emission bandwidth within the DFS band. If this is not possible, test the detection BW to the DFS band edge.
5. Starting at the center frequency of the UUT operating Channel, increase the radar frequency in 5 MHz steps, repeating the above test sequence, until the detection rate falls below the U-NII Detection Bandwidth criterion specified in Table 3-3. Repeat this measurement in 1MHz steps at frequencies 5 MHz below where the detection rate begins to fall. Record the highest frequency (denote as FH) at which detection is greater than or equal to the U-NII Detection Bandwidth criterion. Recording the detection rate at frequencies above FH is not required to demonstrate compliance.
6. Starting at the center frequency of the EUT operating Channel, decrease the radar frequency in 1 MHz steps, repeating the above item 4 test sequence, until the detection rate falls below the U-NII Detection Bandwidth criterion. Record the lowest frequency (denote as FL) at which detection is greater than or equal to the U-NII Detection Bandwidth criterion. Recording the detection rate at frequencies below FL is not required to demonstrate compliance.
7. The U-NII Detection Bandwidth is calculated as follows:  $U\text{-NII Detection Bandwidth} = FH - FL$
8. The U-NII Detection Bandwidth must be at least 100% of the EUT transmitter 99% power, otherwise, the

EUT does not comply with DFS requirements.

**5.3.3. Test Result**

Refer to Appendix A.2.

#### **5.4. Initial Channel Availability Check Time Measurement**

##### **5.4.1. TestLimit**

The EUT shall perform a Channel Availability Check to ensure that there is no radar operating on the channel. After power-up sequence, receive at least 1 minute on the intended operating frequency.

##### **5.4.2. Test Procedure**

1. The U-NII devices will be powered on and be instructed to operate on the appropriate U-NII Channel that must incorporate DFS functions. At the same time the EUT is powered on, the spectrum analyzer will be set to zero span mode with a 3 MHz RBW and 3 MHz VBW on the Channel occupied by the radar (Chr) with a 2.5 minutes sweep time. The spectrum analyzer's sweep will be started at the same time power is applied to the U-NII device.
2. The EUT should not transmit any beacon or data transmissions until at least 1 minute after the completion of the power-on cycle.
3. Confirm that the EUT initiates transmission on the channel. Measurement system showing its nominal noise floor is marker1.

##### **5.4.3. Test Result**

Refer to Appendix A.3.

## **5.5. Radar Burst at the Beginning of the Channel Availability Check Time Measurement**

### **5.5.1. Test Limit**

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

### **5.5.2. Test Procedure**

1. The steps below define the procedure to verify successful radar detection on the selected Channel during a period equal to the Channel Availability Check Time and avoidance of operation on that Channel when a radar Burst with a level equal to the DFS Detection Threshold + 1 dB occurs at the beginning of the Channel Availability Check Time.
2. The EUT is in completion power-up cycle (from T0 to T1). T1 denotes the instant when the EUT has completed its power-up sequence. The Channel Availability Check Time commences at instant T1 and will end no sooner than T1 + 60 seconds. A single Burst of one of Short Pulse Radar Types 0-4 at DFS Detection Threshold + 1 dB will commence within a 6 second window starting at T1.
3. Visual indication on the EUT of successful detection of the radar Burst will be recorded and reported. Observation of emissions will continue for 2.5 minutes after the radar Burst has been generated. Verify that during the 2.5 minutes measurement window no EUT transmissions occurred.

### **5.5.3. Test Result**

Refer to Appendix A.4.



## **5.6. Radar Burst at the End of the Channel Availability Check Time Measurement**

### **5.6.1. Test Limit**

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

### **5.6.2. Test Procedure**

1. The steps below define the procedure to verify successful radar detection on the selected Channel during a period equal to the Channel Availability Check Time and avoidance of operation on that Channel when a radar Burst with a level equal to the DFS Detection Threshold + 1 dB occurs at the beginning of the Channel Availability Check Time.
2. The EUT is powered on at T0. T1 denotes the instant when the EUT has completed its power-up sequence. The Channel Availability Check Time commences at instant T1 and will end no sooner than T1 + 60 seconds. A single Burst of one of Short Pulse Radar Types 0-4 at DFS Detection Threshold + 1 dB will commence within a 6 second window starting at T1+ 54 seconds.
3. Visual indication on the EUT of successful detection of the radar Burst will be recorded and reported. Observation of emissions will continue for 2.5 minutes after the radar Burst has been generated. Verify that during the 2.5 minutes measurement window no EUT transmissions occurred.

### **5.6.3. Test Result**

Refer to Appendix A.5.

## **5.7. In-Service Monitoring for Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period Measurement**

### **5.7.1. Test Limit**

The EUT has In-Service Monitoring function to continuously monitor the radar signals. If the radar is detected, must leave the channel (Shutdown). The Channel Move Time to cease all transmissions on the current channel upon detection of a Radar Waveform above the DFS Detection Threshold within 10 sec. The total duration of Channel Closing Transmission Time is 260ms, consisting of data signals and the aggregate of control signals, by a U-NII device during the Channel Move Time. The Non-Occupancy Period time is 30minute during which a Channel will not be utilized after a Radar Waveform is detected on that Channel.

### **5.7.2. Test Procedure**

1. The test should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0.
2. When the radar burst with a level equal to the DFS Detection Threshold + 1dB is generated on the Operating Channel of the U-NII device. A U-NII device operating as a Master Device will associate with the Client Device at Channel. Stream the MPEG test file from the Master Device to the Client Device on the selected Channel for the entire period of the test. At time T0 the Radar Waveform generator sends a Burst of pulses for each of the radar types at Detection Threshold + 1dB.
3. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the EUT during the observation time (Channel Move Time).
4. Measurement of the aggregate duration of the Channel Closing Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by:  $Dwell (1.5ms) = S (12 \text{ sec}) / B (8000)$ ; where Dwell is the dwell time per spectrum analyzer sampling bin, S is the sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by:  $C = N \times Dwell$ ; where C is the Closing Time, N is the number of spectrum analyzer sampling bins showing a U-NII transmission and Dwell is the dwell time per bin.
5. Measure the EUT for more than 30 minutes following the channel close/move time to verify that the EUT does not resume any transmissions on this Channel.

### **5.7.3. Test Result**

Refer to Appendix A.6.

## 5.8. Statistical Performance Check Measurement

### 5.8.1. Test Limit

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

Radar Type	Minimum Number of Trails	Detection Probability
0	30	Pd > 60%
1	30(15 of test A and 15 of test B)	Pd > 60%
2	30	Pd > 60%
3	30	Pd > 60%
4	30	Pd > 60%
Aggregate (Radar Types 1-4)	120	Pd > 80%
5	30	Pd > 80%
6	30	Pd > 70%

Note: The percentage of successful detection is calculated by:  
 $(\text{Total Waveform Detections} / \text{Total Waveform Trails}) * 100 = \text{Probability of Detection Radar Waveform In}$   
 addition an aggregate minimum percentage of successful detection across all Short Pulse Radar Types 1-4 is required and is calculated as follows:  $(Pd1 + Pd2 + Pd3 + Pd4) / 4$ .

### 5.8.2. Test Procedure

1. Stream the MPEG test file from the Master Device to the Client Device on the test Channel for the entire period of the test.
2. At time T0 the Radar Waveform generator sends the individual waveform for each of the Radar Types 1-6, at levels equal to the DFS Detection Threshold + 1dB, on the Operating Channel.
3. Observe the transmissions of the EUT at the end of the Burst on the Operating Channel for duration greater than 10 seconds for Short Pulse Radar Types 0 to ensure detection occurs.
4. Observe the transmissions of the EUT at the end of the Burst on the Operating Channel for duration greater than 22 seconds for Long Pulse Radar Type 5 to ensure detection occurs.
5. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trial runs.
6. The Minimum number of trails, minimum percentage of successful detection and the average minimum percentage of successful detection are found in below table

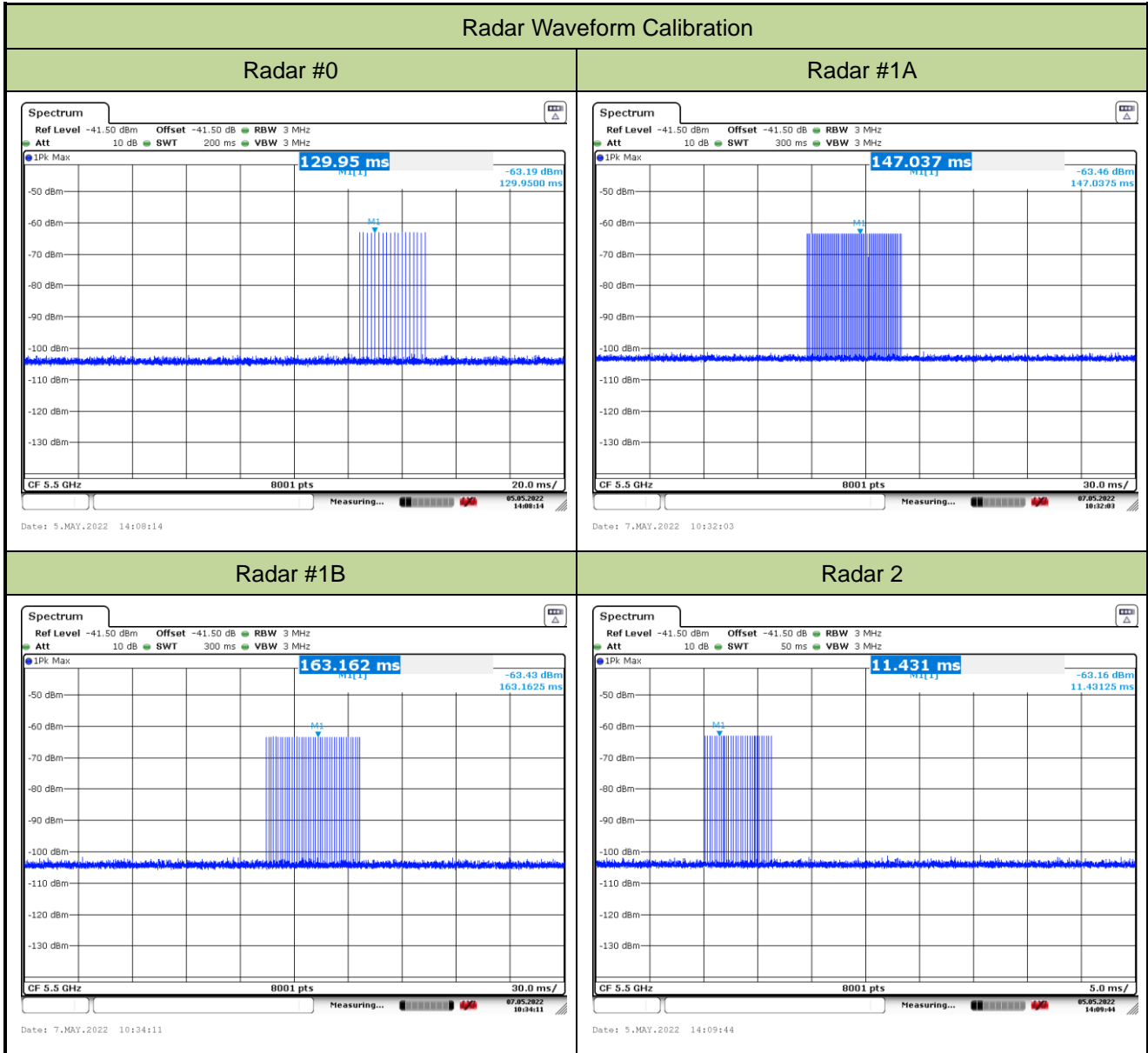
### 5.8.3. Test Result

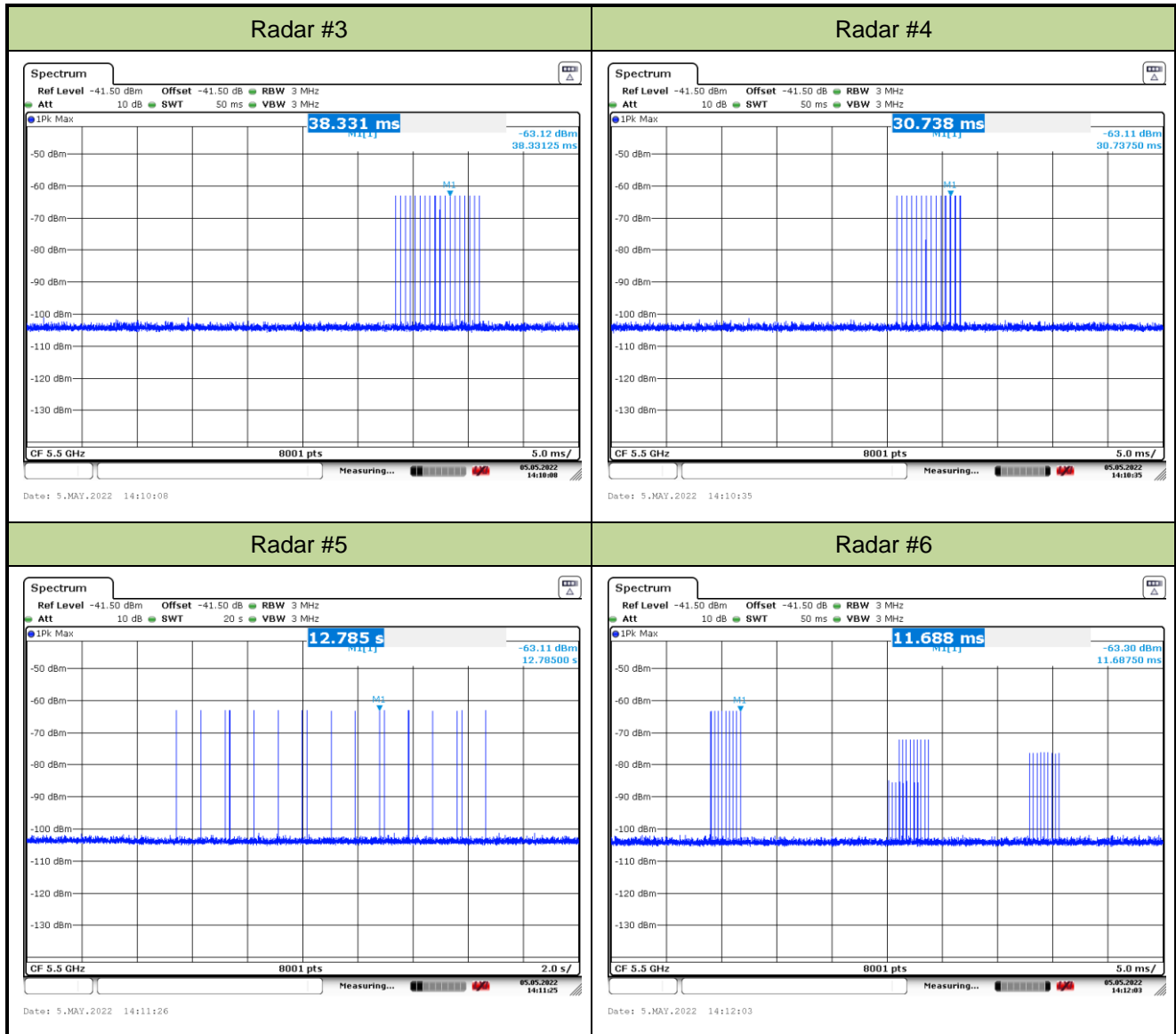
Refer to Appendix A.7.

## Appendix A - Test Result

### A.1 Calibration Test Result

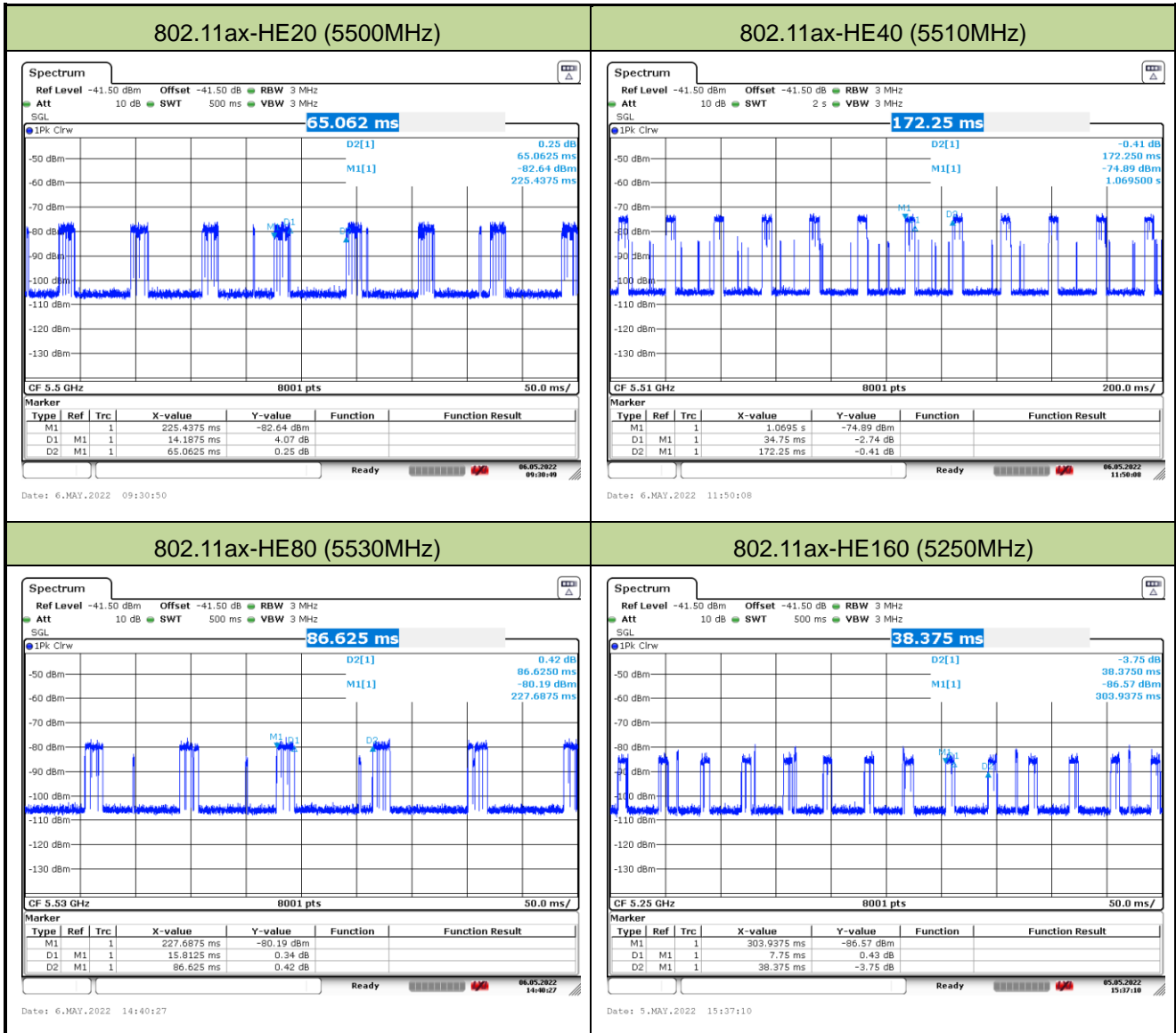
Test Site	WZ-SR4	Test Engineer	Jake Lan
Test Date	2022/05/05	Test Item	Radar Waveform Calibration





### A.2 Channel Loading Test Result

Test Site	WZ-SR4	Test Engineer	Jake Lan
Test Date	2022/05/05 ~ 2022/05/06	Test Item	Channel Loading



802.11ax-HE160 (5570MHz)																																
<table border="1" style="font-size: small; margin-top: 10px;"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td></td> <td>1</td> <td>161.8125 ms</td> <td>-84.49 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>7.75 ms</td> <td>-1.29 dB</td> <td></td> <td></td> </tr> <tr> <td>D2</td> <td>M1</td> <td>1</td> <td>33.05 ms</td> <td>-1.35 dB</td> <td></td> <td></td> </tr> </tbody> </table>					Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	161.8125 ms	-84.49 dBm			D1	M1	1	7.75 ms	-1.29 dB			D2	M1	1	33.05 ms	-1.35 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																										
M1		1	161.8125 ms	-84.49 dBm																												
D1	M1	1	7.75 ms	-1.29 dB																												
D2	M1	1	33.05 ms	-1.35 dB																												
Test Mode	Test Frequency	Packet ratio	Requirement ratio	Test Result																												
802.11ax-HE20	5500 MHz	21.81%	≥ 17%	Pass																												
802.11ax-HE40	5510 MHz	20.17%	≥ 17%	Pass																												
802.11ax-HE80	5530 MHz	18.25%	≥ 17%	Pass																												
802.11ax-HE160	5250 MHz	20.20%	≥ 17%	Pass																												
802.11ax-HE160	5570 MHz	23.45%	≥ 17%	Pass																												
Note: System testing was performed with the designated iperf test file. This file is used by IP and Frame based systems for loading the test channel during the In-service compliance testing of the U-NII device. Packet ratio = Time On/ (Time On + Off Time).																																

**A.3 NII Detection Bandwidth Test Result**

Test Site	WZ-SR4	Test Engineer	Jake Lan
Test Date	2022/05/07		
Test Item	Detection Bandwidth (802.11ax-HE20 mode - 5500MHz)		

Radar Frequency (MHz)	DFS Detection Trials (1=Detection, 0= No Detection)										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5490 F <sub>L</sub>	1	1	1	1	1	1	1	1	1	1	100%
5495	1	1	1	1	1	1	1	1	1	1	100%
5500	1	1	1	1	1	1	1	1	1	1	100%
5505	1	1	1	1	1	1	1	1	1	1	100%
5510 F <sub>H</sub>	1	1	1	1	1	1	1	1	1	1	100%

Note 1: All NII channels for this device have identical Channel bandwidths. Therefore, all DFS testing was done at 5500MHz. The 99% channel bandwidth is 19.14MHz. (See the 99% BW section of the RF report for further measurement details).

Note 2: Detection Bandwidth =  $F_H - F_L = 5510\text{MHz} - 5490\text{MHz} = 20\text{MHz}$

Note 3: NII Detection Bandwidth Min. Limit (MHz):  $19.14\text{MHz} \times 100\% = 19.14\text{MHz}$ .



Test Site	WZ-SR4	Test Engineer	Jake Lan
Test Date	2022/05/07		
Test Item	Detection Bandwidth (802.11ax-HE40 mode - 5510MHz)		

Radar Frequency (MHz)	DFS Detection Trials (1=Detection, 0= No Detection)										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5490 F <sub>L</sub>	1	1	1	1	1	1	1	1	1	1	100%
5495	1	1	1	1	1	1	1	1	1	1	100%
5500	1	1	1	1	1	1	1	1	1	1	100%
5505	1	1	1	1	1	1	1	1	1	1	100%
5510	1	1	1	1	1	1	1	1	1	1	100%
5515	1	1	1	1	1	1	1	1	1	1	100%
5520	1	1	1	1	1	1	1	1	1	1	100%
5525	1	1	1	1	1	1	1	1	1	1	100%
5530 F <sub>H</sub>	1	1	1	1	1	1	1	1	1	1	100%

Note 1: All NII channels for this device have identical Channel bandwidths. Therefore, all DFS testing was done at 5510MHz. The 99% channel bandwidth is 37.84MHz. (See the 99% BW section of the RF report for further measurement details).

Note 2: Detection Bandwidth =  $F_H - F_L = 5530\text{MHz} - 5490\text{MHz} = 40\text{MHz}$ .

Note 3: NII Detection Bandwidth Min. Limit (MHz):  $37.84\text{MHz} \times 100\% = 37.84\text{MHz}$ .

Test Site	WZ-SR4	Test Engineer	Jake Lan
Test Date	2022/05/07		
Test Item	Detection Bandwidth (802.11ax-HE80 mode - 5530MHz)		

Radar Frequency (MHz)	DFS Detection Trials (1=Detection, 0= No Detection)										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5490 F <sub>L</sub>	1	1	1	1	1	1	1	1	1	1	100%
5495	1	1	1	1	1	1	1	1	1	1	100%
5500	1	1	1	1	1	1	1	1	1	1	100%
5505	1	1	1	1	1	1	1	1	1	1	100%
5510	1	1	1	1	1	1	1	1	1	1	100%
5515	1	1	1	1	1	1	1	1	1	1	100%
5520	1	1	1	1	1	1	1	1	1	1	100%
5525	1	1	1	1	1	1	1	1	1	1	100%
5530	1	1	1	1	1	1	1	1	1	1	100%
5535	1	1	1	1	1	1	1	1	1	1	100%
5540	1	1	1	1	1	1	1	1	1	1	100%
5545	1	1	1	1	1	1	1	1	1	1	100%
5550	1	1	1	1	1	1	1	1	1	1	100%
5555	1	1	1	1	1	1	1	1	1	1	100%
5560	1	1	1	1	1	1	1	1	1	1	100%
5565	1	1	1	1	1	1	1	1	1	1	100%
5566	1	1	1	1	1	1	1	1	1	1	100%
5567	1	1	1	1	1	1	1	1	1	1	100%
5568	1	1	1	1	1	1	1	1	1	1	100%
5569 F <sub>H</sub>	1	1	1	1	1	1	1	1	1	1	100%
5570	0	0	0	0	0	0	0	0	0	0	0%

Note 1: All NII channels for this device have identical Channel bandwidths. Therefore, all DFS testing was done at 5530MHz. The 99% channel bandwidth is 77.27MHz. (See the 99% BW section of the RF report for further measurement details).

Note 2: Detection Bandwidth =  $F_H - F_L = 5569\text{MHz} - 5490\text{MHz} = 79\text{MHz}$ .

Note 3: NII Detection Bandwidth Min. Limit (MHz):  $77.27\text{MHz} \times 100\% = 77.27\text{MHz}$ .

Test Site	WZ-SR4	Test Engineer	Jake Lan
Test Date	2022/05/07		
Test Item	Detection Bandwidth (802.11ax-HE160 mode - 5250MHz)		

Radar Frequency (MHz)	DFS Detection Trials (1=Detection, 0= No Detection)										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5250 FL	1	1	1	1	1	1	1	1	1	1	100%
5255	1	1	1	1	1	1	1	1	1	1	100%
5260	1	1	1	1	1	1	1	1	1	1	100%
5265	1	1	1	1	1	1	1	1	1	1	100%
5270	1	1	1	1	1	1	1	1	1	1	100%
5275	1	1	1	1	1	1	1	1	1	1	100%
5280	1	1	1	1	1	1	1	1	1	1	100%
5285	1	1	1	1	1	1	1	1	1	1	100%
5290	1	1	1	1	1	1	1	1	1	1	100%
5295	1	1	1	1	1	1	1	1	1	1	100%
5300	1	1	1	1	1	1	1	1	1	1	100%
5305	1	1	1	1	1	1	1	1	1	1	100%
5310	1	1	1	1	1	1	1	1	1	1	100%
5315	1	1	1	1	1	1	1	1	1	1	100%
5320	1	1	1	1	1	1	1	1	1	1	100%
5325	1	1	1	1	1	1	1	1	1	1	100%
5326	1	1	1	1	1	1	1	1	1	1	100%
5327	1	1	1	1	1	1	1	1	1	1	100%
5328	1	1	1	1	1	1	1	1	1	1	100%
5329 F <sub>H</sub>	1	1	1	1	1	1	1	1	1	1	100%
5330	0	0	0	0	0	0	0	0	0	0	0%

Note 1: All NII channels for this device have identical Channel bandwidths. Therefore, all DFS testing was done at 5250MHz. The 99% channel bandwidth within U-NII Band-2A is 78.04MHz (99% BW / 2 = 156.07MHz / 2 = 78.04MHz). (See the 99% BW section of the RF report for further measurement details).

Note 2: Detection Bandwidth = F<sub>H</sub> - F<sub>L</sub> = 5329MHz - 5250MHz = 79MHz.

Note 3: NII Detection Bandwidth Min. Limit (MHz): 78.04MHz x 100% = 78.04MHz.

Test Site	WZ-SR4	Test Engineer	Jake Lan
Test Date	2022/05/07		
Test Item	Detection Bandwidth (802.11ax-HE160 mode - 5570MHz)		

Radar Frequency (MHz)	DFS Detection Trials (1=Detection, 0= No Detection)										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5490	0	0	0	0	0	0	0	0	0	0	0%
5491 FL	1	1	1	1	1	1	1	1	1	1	100%
5492	1	1	1	1	1	1	1	1	1	1	100%
5493	1	1	1	1	1	1	1	1	1	1	100%
5494	1	1	1	1	1	1	1	1	1	1	100%
5495	1	1	1	1	1	1	1	1	1	1	100%
5505	1	1	1	1	1	1	1	1	1	1	100%
5510	1	1	1	1	1	1	1	1	1	1	100%
5515	1	1	1	1	1	1	1	1	1	1	100%
5520	1	1	1	1	1	1	1	1	1	1	100%
5525	1	1	1	1	1	1	1	1	1	1	100%
5530	1	1	1	1	1	1	1	1	1	1	100%
5535	1	1	1	1	1	1	1	1	1	1	100%
5540	1	1	1	1	1	1	1	1	1	1	100%
5545	1	1	1	1	1	1	1	1	1	1	100%
5550	1	1	1	1	1	1	1	1	1	1	100%
5555	1	1	1	1	1	1	1	1	1	1	100%
5560	1	1	1	1	1	1	1	1	1	1	100%
5565	1	1	1	1	1	1	1	1	1	1	100%
5570	1	1	1	1	1	1	1	1	1	1	100%
5575	1	1	1	1	1	1	1	1	1	1	100%
5580	1	1	1	1	1	1	1	1	1	1	100%
5585	1	1	1	1	1	1	1	1	1	1	100%
5590	1	1	1	1	1	1	1	1	1	1	100%
5595	1	1	1	1	1	1	1	1	1	1	100%
5600	1	1	1	1	1	1	1	1	1	1	100%
5605	1	1	1	1	1	1	1	1	1	1	100%
5610	1	1	1	1	1	1	1	1	1	1	100%
5615	1	1	1	1	1	1	1	1	1	1	100%
5620	1	1	1	1	1	1	1	1	1	1	100%
5625	1	1	1	1	1	1	1	1	1	1	100%
5630	1	1	1	1	1	1	1	1	1	1	100%

5635	1	1	1	1	1	1	1	1	1	1	100%
5640	1	1	1	1	1	1	1	1	1	1	100%
5645	1	1	1	1	1	1	1	1	1	1	100%
5646	1	1	1	1	1	1	1	1	1	1	100%
5647	1	1	1	1	1	1	1	1	1	1	100%
5648	1	1	1	1	1	1	1	1	1	1	100%
5649 F <sub>H</sub>	1	1	1	1	1	1	1	1	1	1	100%
5650	0	0	0	0	0	0	0	0	0	0	0%

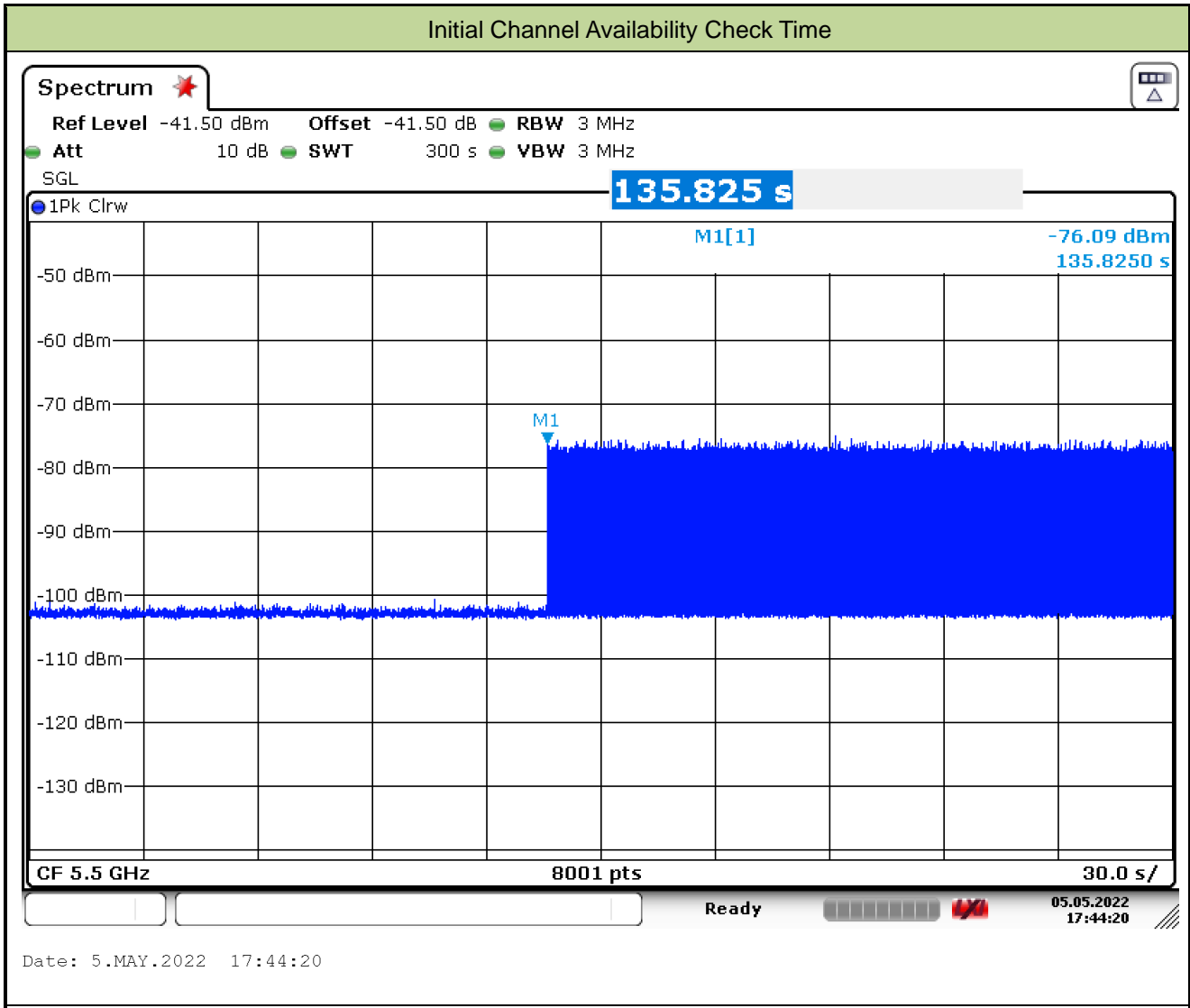
Note 1: All NII channels for this device have identical Channel bandwidths. Therefore, all DFS testing was done at 5570MHz. The 99% channel bandwidth is 156.51MHz. (See the 99% BW section of the RF report for further measurement details).

Note 2: Detection Bandwidth =  $F_H - F_L = 5649\text{MHz} - 5491\text{MHz} = 158\text{MHz}$ .

Note 3: NII Detection Bandwidth Min. Limit (MHz):  $156.51\text{MHz} \times 100\% = 156.51\text{MHz}$ .

**A.4 Initial Channel Availability Check Time Test Result**

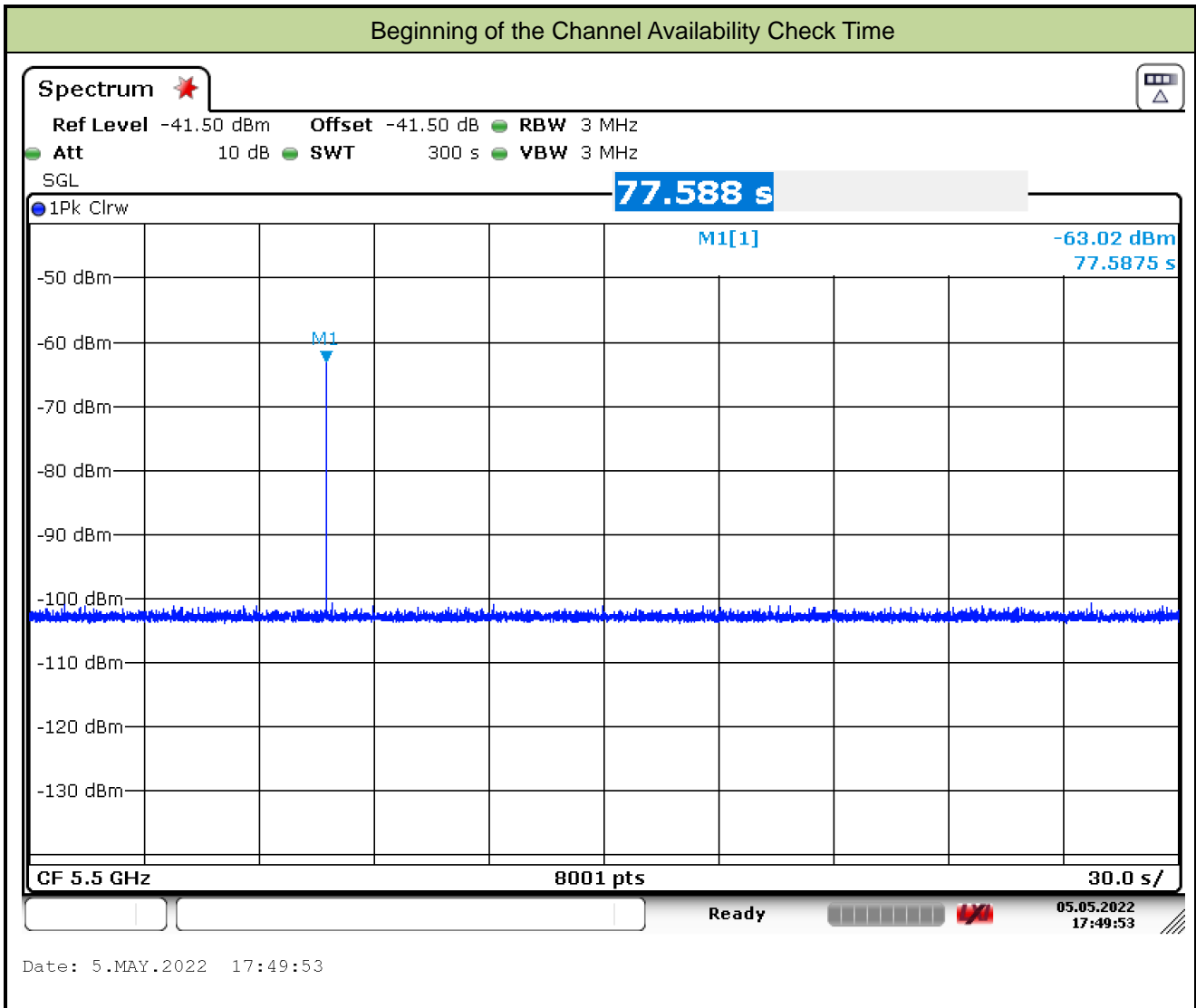
Test Site	WZ-SR4	Test Engineer	Jake Lan
Test Date	2022/05/05		
Test Item	Initial Channel Availability Check Time (802.11ax-HE20 mode - 5500MHz)		



Note: The EUT does not transmit any beacon or data transmissions until at least 1 minute after the completion of the power-on cycle (75.8 sec). Initial beacons/data transmissions are indicated by marker 1 (135.8 sec).

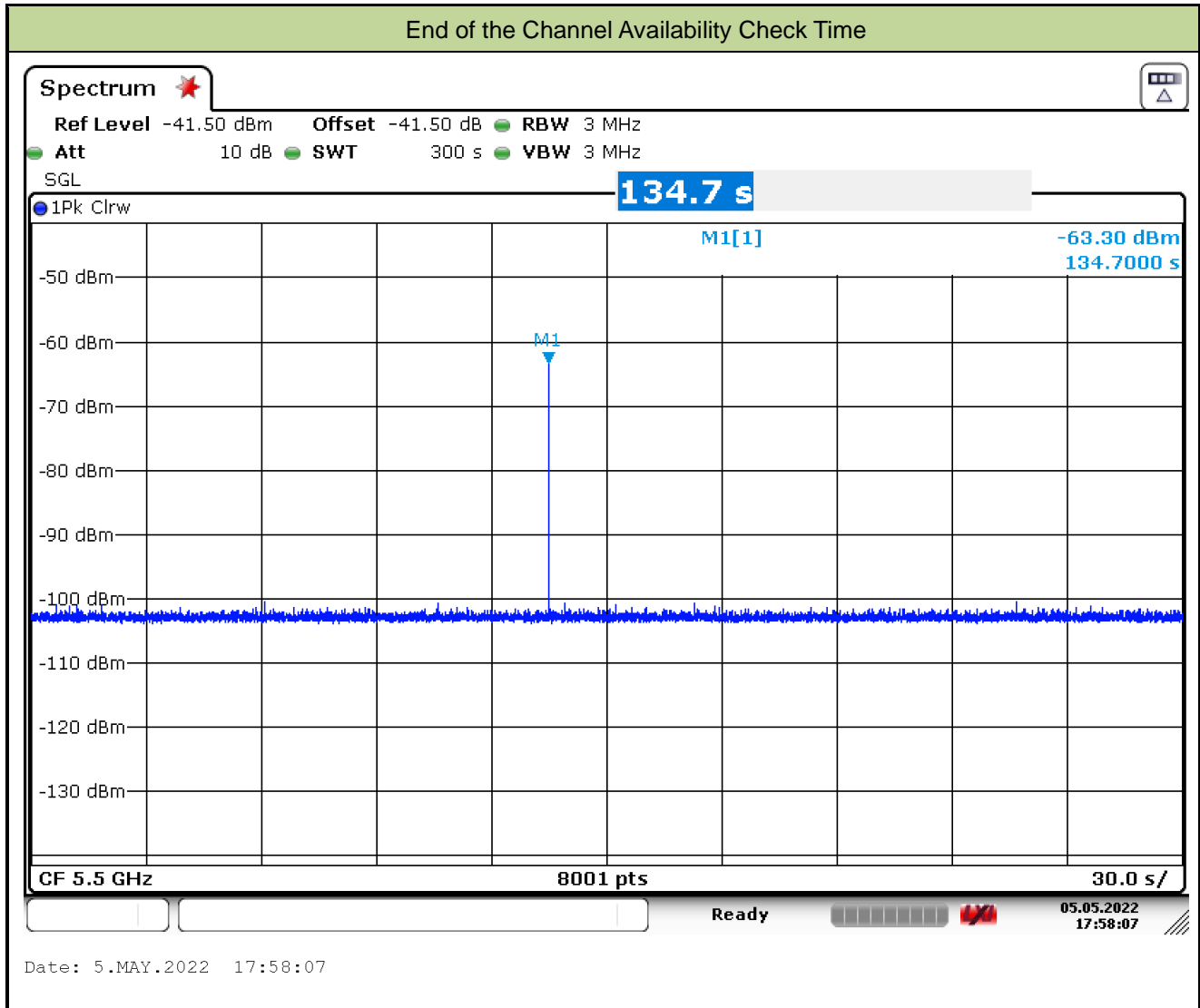
**A.5 Radar Burst at the Beginning of the Channel Availability Check Time Test Result**

Test Site	WZ-SR4	Test Engineer	Jake Lan
Test Date	2022/05/05		
Test Item	Beginning of the Channel Availability Check Time (802.11ax-HE20 mode - 5500MHz)		



**A.6 Radar Burst at the End of the Channel Availability Check Time Test Result**

Test Site	WZ-SR4	Test Engineer	Jake Lan
Test Date	2022/05/05		
Test Item	End of the Channel Availability Check Time (802.11ax-HE20 mode - 5500MHz)		

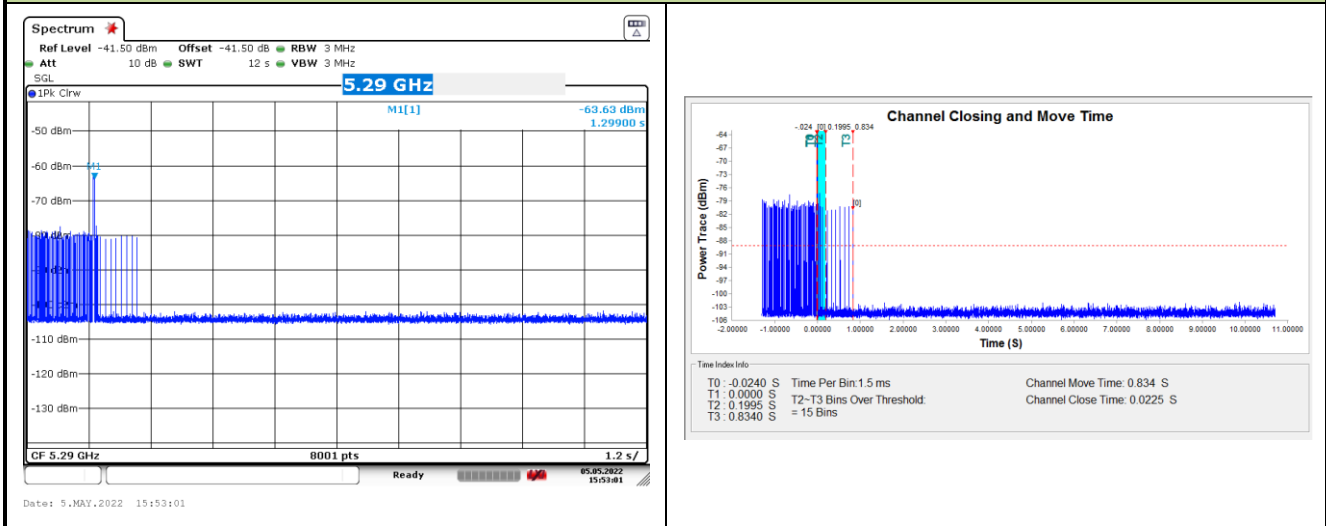




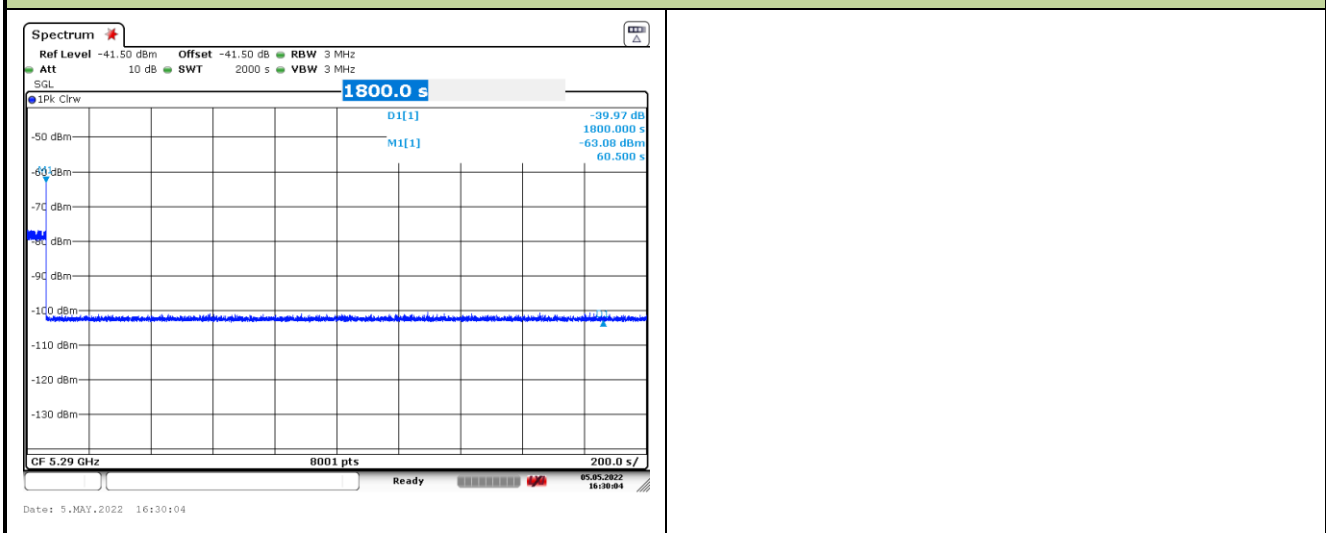
### A.7 In-Service Monitoring for Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period Test Result

Test Site	WZ-SR4	Test Engineer	Jake Lan
Test Date	2022/05/05		
Test Item	Channel Move Time and Channel Closing Transmission Time (802.11ax-HE160 mode - 5250MHz)		

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



#### Non-Occupancy Period

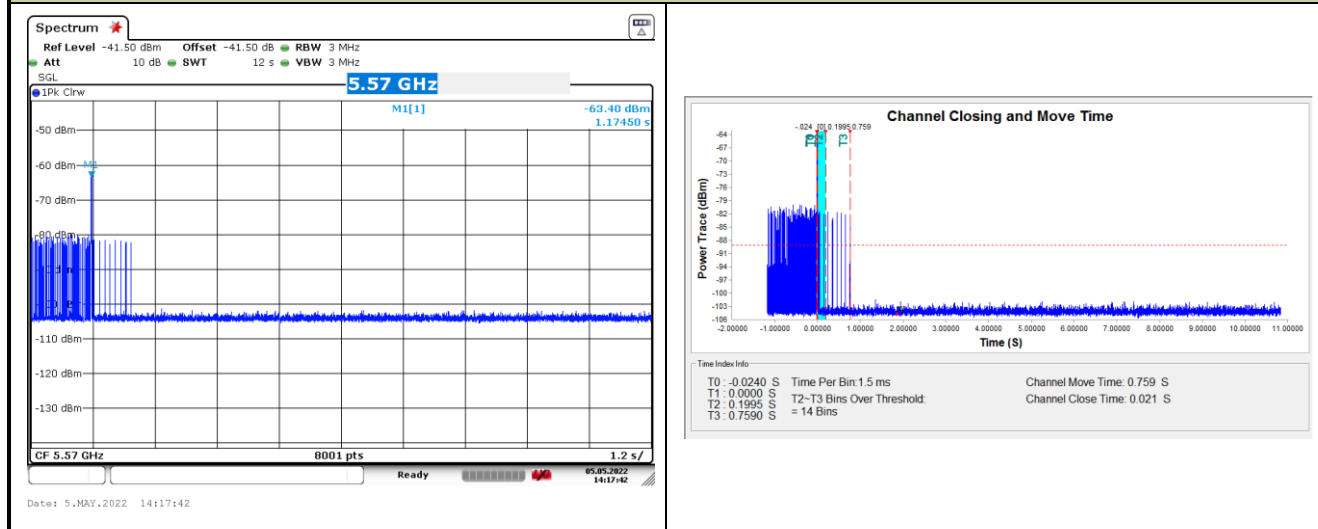


Parameter	Test Result	Limit
Channel Move Time (s)	0.834s	<10s
Channel Closing Transmission Time (ms) (Note)	22.5ms	< 60ms
Non-Occupancy Period (min)	≥ 30min	≥ 30 min

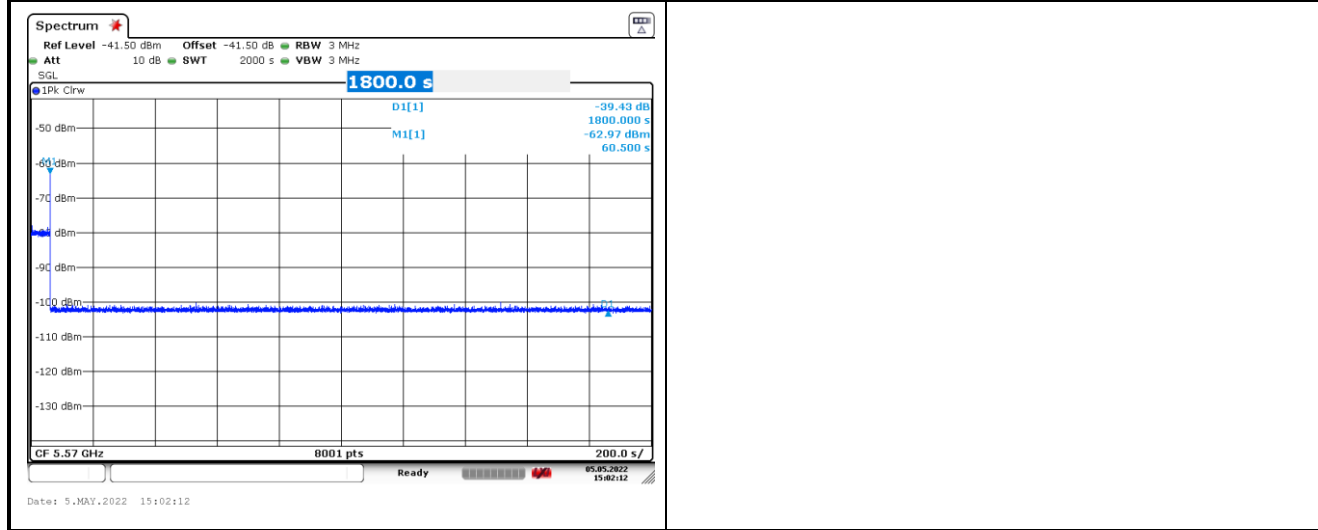
Note: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 seconds period. The aggregate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

Test Site	WZ-SR4	Test Engineer	Jake Lan
Test Date	2022/05/05		
Test Item	Channel Move Time and Channel Closing Transmission Time (802.11ax-HE160 mode - 5570MHz)		

### Channel Move Time and Channel Closing Transmission Time



### Non-Occupancy Period



Parameter	Test Result	Limit
Channel Move Time (s)	0.759s	<10s
Channel Closing Transmission Time (ms) (Note)	21ms	< 60ms
Non-Occupancy Period (min)	≥ 30min	≥ 30 min

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

**A.8 Statistical Performance Check**

Test Site	WZ-SR4	Test Engineer	Jake Lan
Test Date	2022/05/07		
Test Item	Radar Statistical Performance Check (802.11ax-HE20 - 5500MHz)		

## Radar Type 1 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	1=Detection 0=No Detection	Trail #	Test Freq. (MHz)	1=Detection 0=No Detection
1	5495	1	16	5506	1
2	5510	1	17	5504	1
3	5510	1	18	5502	1
4	5503	1	19	5494	1
5	5503	1	20	5507	1
6	5508	1	21	5490	0
7	5491	1	22	5492	1
8	5507	1	23	5501	1
9	5502	1	24	5500	1
10	5506	1	25	5491	1
11	5504	1	26	5497	1
12	5501	1	27	5505	1
13	5499	1	28	5498	1
14	5500	1	29	5503	1
15	5503	1	30	5504	1
Detection Percentage (%)					96.7%

## Radar Type 2 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	1=Detection 0=No Detection	Trail #	Test Freq. (MHz)	1=Detection 0=No Detection
1	5504	1	16	5490	1
2	5498	1	17	5508	1
3	5502	1	18	5502	1
4	5495	1	19	5507	1
5	5500	1	20	5491	1
6	5496	1	21	5501	1
7	5492	1	22	5505	1
8	5504	1	23	5496	1
9	5493	1	24	5495	1
10	5498	1	25	5510	1
11	5507	1	26	5503	1
12	5495	1	27	5503	1
13	5499	1	28	5498	1
14	5497	1	29	5493	1
15	5509	1	30	5492	1
Detection Percentage (%)					100%

## Radar Type 3 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	1=Detection 0=No Detection	Trail #	Test Freq. (MHz)	1=Detection 0=No Detection
1	5506	1	16	5493	1
2	5509	1	17	5498	0
3	5493	1	18	5492	1
4	5494	0	19	5500	1
5	5490	1	20	5502	1
6	5501	1	21	5504	1
7	5504	0	22	5510	0
8	5507	1	23	5494	0
9	5502	1	24	5491	1
10	5502	1	25	5506	1
11	5494	1	26	5509	1
12	5494	1	27	5493	1
13	5502	1	28	5499	1
14	5503	0	29	5506	0
15	5502	1	30	5505	1
Detection Percentage (%)					76.7%

## Radar Type 4 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	1=Detection 0=No Detection	Trail #	Test Freq. (MHz)	1=Detection 0=No Detection
1	5510	0	16	5499	1
2	5501	1	17	5497	1
3	5503	1	18	5502	1
4	5508	0	19	5508	1
5	5497	1	20	5501	1
6	5500	1	21	5493	1
7	5504	1	22	5496	1
8	5510	0	23	5491	1
9	5500	1	24	5496	0
10	5490	1	25	5494	0
11	5493	1	26	5499	1
12	5500	1	27	5505	1
13	5493	0	28	5510	0
14	5492	1	29	5490	1
15	5499	1	30	5500	1
Detection Percentage (%)					76.7%

Note: In addition an average minimum percentage of successful detection across all four Short pulse radar

test waveforms is as follows:  $\frac{P_d1 + P_d2 + P_d3 + P_d4}{4} = (96.7\% + 100\% + 76.7\% + 76.7\%) / 4 = 87.5\% (>80\%)$

**Type 1 Radar Statistical Performance**

	<b>Trial Id</b>	<b>Radar Type</b>	<b>Pulse Width (us)</b>	<b>PRI (us)</b>	<b>Number of Pulses</b>	<b>Waveform Length (us)</b>
Download	0	Type 1	1.0	858.0	62	53196.0
Download	1	Type 1	1.0	578.0	92	53176.0
Download	2	Type 1	1.0	3066.0	18	55188.0
Download	3	Type 1	1.0	918.0	58	53244.0
Download	4	Type 1	1.0	638.0	83	52954.0
Download	5	Type 1	1.0	898.0	59	52982.0
Download	6	Type 1	1.0	718.0	74	53132.0
Download	7	Type 1	1.0	738.0	72	53136.0
Download	8	Type 1	1.0	678.0	78	52884.0
Download	9	Type 1	1.0	518.0	102	52836.0
Download	10	Type 1	1.0	598.0	89	53222.0
Download	11	Type 1	1.0	558.0	95	53010.0
Download	12	Type 1	1.0	818.0	65	53170.0
Download	13	Type 1	1.0	938.0	57	53466.0
Download	14	Type 1	1.0	538.0	99	53262.0
Download	15	Type 1	1.0	829.0	64	53056.0
Download	16	Type 1	1.0	1489.0	36	53604.0
Download	17	Type 1	1.0	1168.0	46	53728.0
Download	18	Type 1	1.0	2413.0	22	53086.0
Download	19	Type 1	1.0	1434.0	37	53058.0
Download	20	Type 1	1.0	3059.0	18	55062.0
Download	21	Type 1	1.0	1005.0	53	53265.0
Download	22	Type 1	1.0	779.0	68	52972.0
Download	23	Type 1	1.0	1597.0	34	54298.0
Download	24	Type 1	1.0	592.0	90	53280.0
Download	25	Type 1	1.0	546.0	97	52962.0
Download	26	Type 1	1.0	1650.0	32	52800.0
Download	27	Type 1	1.0	1911.0	28	53508.0
Download	28	Type 1	1.0	2990.0	18	53820.0
Download	29	Type 1	1.0	896.0	59	52864.0

**Type 2 Radar Statistical Performance**

	Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
Download	0	Type 2	1.3	179.0	23	4117.0
Download	1	Type 2	4.1	220.0	28	6160.0
Download	2	Type 2	3.1	215.0	26	5590.0
Download	3	Type 2	4.6	224.0	29	6496.0
Download	4	Type 2	5.0	218.0	29	6322.0
Download	5	Type 2	2.3	173.0	25	4325.0
Download	6	Type 2	4.7	208.0	29	6032.0
Download	7	Type 2	2.5	209.0	25	5225.0
Download	8	Type 2	1.9	187.0	24	4488.0
Download	9	Type 2	1.7	159.0	24	3816.0
Download	10	Type 2	5.0	180.0	29	5220.0
Download	11	Type 2	3.3	162.0	27	4374.0
Download	12	Type 2	4.6	185.0	29	5365.0
Download	13	Type 2	4.4	194.0	28	5432.0
Download	14	Type 2	3.6	189.0	27	5103.0
Download	15	Type 2	1.1	158.0	23	3634.0
Download	16	Type 2	3.0	219.0	26	5694.0
Download	17	Type 2	2.0	153.0	24	3672.0
Download	18	Type 2	2.2	186.0	25	4650.0
Download	19	Type 2	1.3	227.0	23	5221.0
Download	20	Type 2	4.0	203.0	28	5684.0
Download	21	Type 2	1.6	191.0	24	4584.0
Download	22	Type 2	2.6	205.0	25	5125.0
Download	23	Type 2	2.1	225.0	25	5625.0
Download	24	Type 2	3.6	167.0	27	4509.0
Download	25	Type 2	4.7	166.0	29	4814.0
Download	26	Type 2	3.3	195.0	26	5070.0
Download	27	Type 2	3.1	175.0	26	4550.0
Download	28	Type 2	3.9	201.0	28	5628.0
Download	29	Type 2	2.0	190.0	24	4560.0



**Type 3 Radar Statistical Performance**

	Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
Download	0	Type 3	6.3	345.0	16	5520.0
Download	1	Type 3	9.1	243.0	18	4374.0
Download	2	Type 3	8.1	361.0	17	6137.0
Download	3	Type 3	9.6	346.0	18	6228.0
Download	4	Type 3	10.0	204.0	18	3672.0
Download	5	Type 3	7.3	215.0	16	3440.0
Download	6	Type 3	9.7	393.0	18	7074.0
Download	7	Type 3	7.5	335.0	17	5695.0
Download	8	Type 3	6.9	384.0	16	6144.0
Download	9	Type 3	6.7	259.0	16	4144.0
Download	10	Type 3	10.0	443.0	18	7974.0
Download	11	Type 3	8.3	214.0	17	3638.0
Download	12	Type 3	9.6	376.0	18	6768.0
Download	13	Type 3	9.4	394.0	18	7092.0
Download	14	Type 3	8.6	430.0	17	7310.0
Download	15	Type 3	6.1	448.0	16	7168.0
Download	16	Type 3	8.0	485.0	17	8245.0
Download	17	Type 3	7.0	201.0	16	3216.0
Download	18	Type 3	7.2	233.0	16	3728.0
Download	19	Type 3	6.3	221.0	16	3536.0
Download	20	Type 3	9.0	237.0	18	4266.0
Download	21	Type 3	6.6	269.0	16	4304.0
Download	22	Type 3	7.6	453.0	17	7701.0
Download	23	Type 3	7.1	462.0	16	7392.0
Download	24	Type 3	8.6	456.0	17	7752.0
Download	25	Type 3	9.7	209.0	18	3762.0
Download	26	Type 3	8.3	373.0	17	6341.0
Download	27	Type 3	8.1	254.0	17	4318.0
Download	28	Type 3	8.9	341.0	18	6138.0
Download	29	Type 3	7.0	294.0	16	4704.0

**Type 4 Radar Statistical Performance**

	Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
Download	0	Type 4	11.7	345.0	12	4140.0
Download	1	Type 4	17.8	243.0	15	3645.0
Download	2	Type 4	15.7	361.0	14	5054.0
Download	3	Type 4	18.9	346.0	16	5536.0
Download	4	Type 4	19.8	204.0	16	3264.0
Download	5	Type 4	14.0	215.0	13	2795.0
Download	6	Type 4	19.2	393.0	16	6288.0
Download	7	Type 4	14.3	335.0	13	4355.0
Download	8	Type 4	13.1	384.0	13	4992.0
Download	9	Type 4	12.7	259.0	12	3108.0
Download	10	Type 4	20.0	443.0	16	7088.0
Download	11	Type 4	16.2	214.0	14	2996.0
Download	12	Type 4	19.1	376.0	16	6016.0
Download	13	Type 4	18.7	394.0	16	6304.0
Download	14	Type 4	16.9	430.0	15	6450.0
Download	15	Type 4	11.2	448.0	12	5376.0
Download	16	Type 4	15.4	485.0	14	6790.0
Download	17	Type 4	13.2	201.0	13	2613.0
Download	18	Type 4	13.7	233.0	13	3029.0
Download	19	Type 4	11.7	221.0	12	2652.0
Download	20	Type 4	17.8	237.0	15	3555.0
Download	21	Type 4	12.3	269.0	12	3228.0
Download	22	Type 4	14.6	453.0	14	6342.0
Download	23	Type 4	13.6	462.0	13	6006.0
Download	24	Type 4	16.8	456.0	15	6840.0
Download	25	Type 4	19.2	209.0	16	3344.0
Download	26	Type 4	16.1	373.0	14	5222.0
Download	27	Type 4	15.7	254.0	14	3556.0
Download	28	Type 4	17.5	341.0	15	5115.0
Download	29	Type 4	13.4	294.0	13	3822.0

## Radar Type 5 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	1=Detection 0=No Detection	Trail #	Test Freq. (MHz)	1=Detection 0=No Detection
1	5500	1	16	5492	1
2	5500	1	17	5494.8	1
3	5500	1	18	5493.6	1
4	5500	1	19	5493.6	1
5	5500	1	20	5492.4	1
6	5500	1	21	5503.2	1
7	5500	1	22	5507.2	1
8	5500	1	23	5505.6	1
9	5500	1	24	5506.4	1
10	5500	1	25	5504	1
11	5498	1	26	5502.4	1
12	5495.6	1	27	5504.4	1
13	5497.6	1	28	5504.8	1
14	5497.2	1	29	5503.6	1
15	5496	1	30	5506.4	1
Detection Percentage (%)					100%

Type 5 Radar Waveform_1						
Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
438512.0	54.3	6	1	1731.0	-	-
760075.0	87.9	6	3	1523.0	1101.0	1542.0
1083754.0	76.1	6	2	1506.0	1047.0	-
75645.0	93.9	6	3	1361.0	1521.0	1142.0
397687.0	98.9	6	3	1885.0	1939.0	1396.0
721884.0	66.5	6	1	1368.0	-	-
1042574.0	95.5	6	3	1236.0	1302.0	1830.0
35955.0	68.5	6	2	1267.0	1927.0	-
359059.0	61.6	6	1	1329.0	-	-

**Type 5 Radar Waveform\_2**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
360898.0	59.4	17	1	1135.0	-	-
529278.0	99.6	17	3	1795.0	1273.0	1437.0
701178.0	79.1	17	2	1620.0	1086.0	-
168176.0	94.6	17	3	1433.0	1265.0	1540.0
338218.0	92.7	17	3	1435.0	1842.0	1229.0
509672.0	82.7	17	2	1606.0	1040.0	-
680936.0	51.5	17	1	1915.0	-	-
147359.0	74.5	17	2	1610.0	1945.0	-
318610.0	62.6	17	1	1533.0	-	-
489768.0	65.2	17	1	1056.0	-	-
660551.0	53.9	17	1	1227.0	-	-
126202.0	87.6	17	3	1575.0	1524.0	1429.0
297748.0	57.3	17	1	1106.0	-	-
467115.0	70.1	17	2	1797.0	1661.0	-
639145.0	64.4	17	1	1618.0	-	-
105365.0	82.1	17	2	1970.0	1787.0	-
275151.0	95.6	17	3	1694.0	1406.0	1936.0

**Type 5 Radar Waveform\_3**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
542050.0	78.3	13	2	1983.0	1711.0	-
749701.0	75.9	13	2	1483.0	1456.0	-
102549.0	86.2	13	3	1073.0	1035.0	1823.0
310420.0	63.3	13	1	1339.0	-	-
515886.0	91.0	13	3	1555.0	1909.0	1333.0
722910.0	83.9	13	3	1356.0	1455.0	1628.0
77292.0	64.0	13	1	1359.0	-	-
283645.0	85.1	13	3	1550.0	1464.0	1953.0
492172.0	51.6	13	1	1756.0	-	-
699964.0	60.8	13	1	1348.0	-	-
51559.0	87.2	13	3	1852.0	1002.0	1261.0
258228.0	97.6	13	3	1767.0	1291.0	1774.0
464781.0	86.2	13	3	1649.0	1825.0	1650.0
674556.0	64.2	13	1	1148.0	-	-

**Type 5 Radar Waveform\_4**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
19156.0	93.6	19	3	1794.0	1200.0	1934.0
171666.0	77.1	19	2	1152.0	1110.0	-
324294.0	81.5	19	2	1050.0	1602.0	-
475681.0	98.7	19	3	1154.0	1793.0	1219.0
435.0	89.6	19	3	1859.0	1222.0	1522.0
152834.0	78.4	19	2	1775.0	1441.0	-
304622.0	90.8	19	3	1206.0	1243.0	1611.0
459071.0	59.6	19	1	1237.0	-	-
608316.0	91.0	19	3	1739.0	1652.0	1588.0
134088.0	80.2	19	2	1384.0	1709.0	-
267435.0	50.1	19	1	1078.0	-	-
438913.0	73.7	19	2	1971.0	1165.0	-
591513.0	71.1	19	2	1554.0	1388.0	-
115340.0	80.4	19	2	1251.0	1691.0	-
268459.0	55.7	19	1	1407.0	-	-
419897.0	97.1	19	3	1115.0	1133.0	1250.0
572451.0	67.8	19	2	1776.0	1476.0	-
96782.0	61.7	19	1	1502.0	-	-
249496.0	61.8	19	1	1753.0	-	-

**Type 5 Radar Waveform\_5**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
382423.0	53.3	20	1	1218.0	-	-
525492.0	88.3	20	3	1382.0	1248.0	1033.0
73854.0	69.5	20	2	1994.0	1103.0	-
218644.0	82.3	20	2	1821.0	1214.0	-
362295.0	98.4	20	3	1666.0	1920.0	1308.0
507749.0	68.5	20	2	1803.0	1773.0	-
56153.0	65.6	20	1	1698.0	-	-
201399.0	65.0	20	1	1285.0	-	-
346578.0	59.4	20	1	1334.0	-	-
489188.0	91.1	20	3	1855.0	1405.0	1221.0
38245.0	71.9	20	2	1168.0	1068.0	-
183403.0	64.3	20	1	1642.0	-	-
327846.0	76.9	20	2	1444.0	1432.0	-
473059.0	76.4	20	2	1020.0	1362.0	-
20408.0	51.0	20	1	1621.0	-	-
165515.0	60.3	20	1	1689.0	-	-
310743.0	60.5	20	1	1459.0	-	-
454684.0	75.9	20	2	1138.0	1929.0	-
2525.0	71.5	20	2	1979.0	1315.0	-
147140.0	74.8	20	2	1735.0	1984.0	-

**Type 5 Radar Waveform\_6**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
488787.0	53.6	10	1	1037.0	-	-
730890.0	54.7	10	1	1278.0	-	-
971626.0	68.6	10	2	1742.0	1060.0	-
215957.0	85.0	10	3	1585.0	1479.0	1226.0
458601.0	55.9	10	1	1780.0	-	-
700919.0	63.2	10	1	1470.0	-	-
941555.0	67.3	10	2	1419.0	1680.0	-
186790.0	62.7	10	1	1197.0	-	-
427587.0	83.7	10	3	1813.0	1414.0	1331.0
670192.0	79.3	10	2	1218.0	1587.0	-
913140.0	54.5	10	1	1605.0	-	-
156490.0	93.1	10	3	1389.0	1639.0	1105.0

**Type 5 Radar Waveform\_7**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
251358.0	75.4	19	2	1299.0	1367.0	-
402389.0	85.8	19	3	1567.0	1665.0	1771.0
558518.0	82.9	19	2	1199.0	1357.0	-
80093.0	76.0	19	2	1122.0	1120.0	-
232498.0	74.1	19	2	1676.0	1184.0	-
384241.0	94.9	19	3	1143.0	1328.0	1600.0
537326.0	83.2	19	2	1057.0	1967.0	-
61205.0	80.2	19	2	1242.0	1894.0	-
213579.0	74.0	19	2	1320.0	1943.0	-
366849.0	63.4	19	1	1745.0	-	-
518423.0	81.4	19	2	1878.0	1298.0	-
42391.0	68.5	19	2	1964.0	1754.0	-
194880.0	69.1	19	2	1374.0	1656.0	-
348254.0	65.8	19	1	1346.0	-	-
500164.0	73.2	19	2	1345.0	1185.0	-
23613.0	97.3	19	3	1351.0	1443.0	1471.0
176160.0	70.1	19	2	1563.0	1262.0	-
326752.0	70.0	19	2	1558.0	1077.0	-
480393.0	95.3	19	3	1390.0	1230.0	1188.0

**Type 5 Radar Waveform\_8**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
7743.0	71.1	10	2	1892.0	1240.0	-
248940.0	98.3	10	3	1548.0	1949.0	1932.0
490759.0	87.0	10	3	1213.0	1862.0	1129.0
734265.0	58.2	10	1	1491.0	-	-
972731.0	98.7	10	3	1858.0	1700.0	1721.0
219893.0	69.6	10	2	1252.0	1159.0	-
461084.0	84.5	10	3	1841.0	1053.0	1149.0
703473.0	76.3	10	2	1233.0	1623.0	-
943933.0	85.1	10	3	1258.0	1385.0	1668.0
190219.0	51.2	10	1	1741.0	-	-
432270.0	52.9	10	1	1874.0	-	-
873695.0	81.4	10	2	1325.0	1514.0	-

**Type 5 Radar Waveform\_9**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
998821.0	80.1	8	2	1079.0	1962.0	-
174384.0	86.5	8	3	1669.0	1950.0	1974.0
438722.0	78.8	8	2	1744.0	1085.0	-
701104.0	89.0	8	3	1565.0	1896.0	1707.0
965605.0	91.2	8	3	1202.0	1090.0	1556.0
142112.0	93.6	8	3	1312.0	1231.0	1896.0
406078.0	75.0	8	2	1783.0	1417.0	-
668672.0	86.3	8	3	1845.0	1604.0	1716.0
935572.0	65.7	8	1	1003.0	-	-
109555.0	92.7	8	3	1454.0	1986.0	1990.0
373273.0	91.4	8	3	1186.0	1157.0	1761.0

**Type 5 Radar Waveform\_10**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
702391.0	50.8	8	1	1360.0	-	-
990941.0	90.3	8	3	1383.0	1280.0	1303.0
85039.0	73.4	8	2	1306.0	1849.0	-
375797.0	50.0	8	1	1608.0	-	-
666555.0	65.9	8	1	1410.0	-	-
954762.0	90.2	8	3	1697.0	1031.0	1799.0
49256.0	90.0	8	3	1179.0	1295.0	1365.0
339556.0	70.0	8	2	1682.0	1478.0	-
629379.0	92.7	8	3	1573.0	1119.0	1319.0
921077.0	63.7	8	1	1888.0	-	-

**Type 5 Radar Waveform\_11**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
6728.0	84.1	20	3	1140.0	1861.0	1851.0
151011.0	83.5	20	3	1723.0	1467.0	1893.0
295857.0	96.8	20	3	1175.0	1584.0	1196.0
439557.0	88.4	20	3	1931.0	1448.0	1740.0
586169.0	77.5	20	2	1354.0	1386.0	-
133334.0	84.3	20	3	1046.0	1678.0	1933.0
279161.0	56.3	20	1	1576.0	-	-
422533.0	89.6	20	3	1364.0	1006.0	1695.0
568195.0	68.5	20	2	1727.0	1151.0	-
115473.0	98.1	20	3	1416.0	2000.0	1631.0
260249.0	78.9	20	2	1968.0	1976.0	-
404959.0	71.0	20	2	1619.0	1908.0	-
550038.0	82.1	20	2	1257.0	1966.0	-
98336.0	51.2	20	1	1169.0	-	-
243023.0	82.1	20	2	1392.0	1125.0	-
386788.0	90.3	20	3	1582.0	1549.0	1147.0
532362.0	76.9	20	2	1336.0	1717.0	-
80143.0	82.1	20	2	1930.0	1500.0	-
225664.0	53.7	20	1	1215.0	-	-
368289.0	95.1	20	3	1666.0	1724.0	1602.0

**Type 5 Radar Waveform\_12**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
685959.0	83.7	14	3	1183.0	1001.0	1978.0
83233.0	79.6	14	2	1822.0	1421.0	-
276696.0	78.4	14	2	1220.0	1376.0	-
470861.0	54.9	14	1	1292.0	-	-
662359.0	86.2	14	3	1313.0	1526.0	1113.0
59457.0	67.9	14	2	1178.0	1705.0	-
252581.0	75.2	14	2	1817.0	1701.0	-
446159.0	69.5	14	2	1772.0	1021.0	-
639183.0	68.6	14	2	1373.0	1824.0	-
35590.0	86.2	14	3	1674.0	1377.0	1042.0
228408.0	95.2	14	3	1811.0	1580.0	1449.0
422096.0	81.2	14	2	1296.0	1963.0	-
617026.0	60.3	14	1	1065.0	-	-
11831.0	67.6	14	2	1084.0	1760.0	-
204748.0	96.1	14	3	1827.0	1613.0	1029.0

**Type 5 Radar Waveform\_13**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
314956.0	53.0	19	1	1546.0	-	-
466778.0	82.0	19	2	1629.0	1238.0	-
620623.0	50.5	19	1	1484.0	-	-
143398.0	63.6	19	1	1254.0	-	-
296250.0	59.3	19	1	1301.0	-	-
448042.0	66.7	19	2	1398.0	1404.0	-
599659.0	96.8	19	3	1174.0	1304.0	1247.0
123922.0	97.2	19	3	1658.0	1688.0	1173.0
275732.0	94.7	19	3	1515.0	1762.0	1860.0
429824.0	62.4	19	1	1973.0	-	-
580939.0	79.8	19	2	1895.0	1790.0	-
105624.0	58.2	19	1	1926.0	-	-
258035.0	72.1	19	2	1327.0	1330.0	-
409736.0	68.0	19	2	1997.0	1935.0	-
562282.0	75.6	19	2	1981.0	1592.0	-
66842.0	63.2	19	1	1720.0	-	-
239504.0	57.8	19	1	1980.0	-	-
392498.0	66.3	19	1	1504.0	-	-
542180.0	97.6	19	3	1619.0	1828.0	1675.0

**Type 5 Radar Waveform\_14**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
87829.0	80.1	18	2	1616.0	1925.0	-
220849.0	54.5	18	1	1541.0	-	-
373478.0	55.0	18	1	1836.0	-	-
523978.0	91.9	18	3	1777.0	1203.0	1528.0
49236.0	52.2	18	1	1380.0	-	-
201905.0	59.6	18	1	1922.0	-	-
354940.0	59.0	18	1	1347.0	-	-
504881.0	86.9	18	3	1544.0	1916.0	1499.0
30327.0	70.9	18	2	1864.0	1211.0	-
182982.0	82.4	18	2	1052.0	1255.0	-
335960.0	52.9	18	1	1633.0	-	-
486150.0	97.8	18	3	1321.0	1857.0	1796.0
11585.0	60.7	18	1	1241.0	-	-
164401.0	64.4	18	1	1473.0	-	-
317126.0	55.1	18	1	1663.0	-	-
468908.0	79.1	18	2	1427.0	1566.0	-
622694.0	58.3	18	1	1643.0	-	-
145091.0	76.3	18	2	1746.0	1829.0	-
297901.0	68.5	18	2	1204.0	1317.0	-

**Type 5 Radar Waveform\_15**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
533744.0	94.4	15	3	1324.0	1379.0	1947.0
715861.0	76.4	15	2	1561.0	1684.0	-
150072.0	86.9	15	3	1617.0	1194.0	1161.0
331541.0	82.4	15	2	1537.0	1232.0	-
511350.0	83.8	15	3	1789.0	1058.0	1988.0
692429.0	92.6	15	3	1067.0	1532.0	1856.0
128270.0	56.4	15	1	1137.0	-	-
309759.0	59.7	15	1	1460.0	-	-
491418.0	53.1	15	1	1286.0	-	-
672689.0	51.5	15	1	1637.0	-	-
105393.0	93.0	15	3	1850.0	1660.0	1198.0
287067.0	72.9	15	2	1044.0	1275.0	-
466886.0	87.3	15	3	1961.0	1264.0	1517.0
650313.0	64.9	15	1	1659.0	-	-
83476.0	62.7	15	1	1591.0	-	-
264118.0	87.6	15	3	1166.0	1766.0	1100.0

**Type 5 Radar Waveform\_16**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
892230.0	91.6	5	3	1191.0	1960.0	1326.0
1254765.0	98.0	5	3	1713.0	1009.0	1965.0
122036.0	90.2	5	3	1816.0	1926.0	1876.0
485026.0	98.4	5	3	1017.0	1062.0	1826.0
849423.0	54.0	5	1	1177.0	-	-
1212338.0	50.3	5	1	1914.0	-	-
77524.0	81.8	5	2	1686.0	1387.0	-
440696.0	75.8	5	2	1599.0	1069.0	-



**Type 5 Radar Waveform\_17**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
459520.0	64.8	12	1	1190.0	-	-
664376.0	91.7	12	3	1083.0	1977.0	1645.0
18750.0	64.6	12	1	1547.0	-	-
225805.0	69.0	12	2	1426.0	1838.0	-
431794.0	93.8	12	3	1763.0	1844.0	1834.0
639817.0	66.9	12	2	1574.0	1921.0	-
845465.0	89.0	12	3	1529.0	1831.0	1535.0
200203.0	67.3	12	2	1903.0	1759.0	-
406653.0	86.9	12	3	1626.0	1552.0	1627.0
613023.0	89.4	12	3	1758.0	1748.0	1784.0
821733.0	71.9	12	2	1601.0	1497.0	-
174875.0	71.2	12	2	1366.0	1468.0	-
381360.0	93.2	12	3	1355.0	1507.0	1564.0
588866.0	72.1	12	2	1710.0	1708.0	-

**Type 5 Radar Waveform\_18**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1014204.0	71.2	9	2	1158.0	1891.0	-
189836.0	99.3	9	3	2000.0	1897.0	1141.0
453725.0	95.8	9	3	1024.0	1224.0	1516.0
716762.0	99.9	9	3	1972.0	1375.0	1372.0
983496.0	55.9	9	1	1064.0	-	-
157549.0	85.4	9	3	1411.0	1070.0	1503.0
421611.0	78.0	9	2	1403.0	1424.0	-
686162.0	59.4	9	1	1785.0	-	-
950777.0	65.7	9	1	1248.0	-	-
125135.0	82.8	9	2	1946.0	1536.0	-
388436.0	98.1	9	3	1447.0	1765.0	1487.0

**Type 5 Radar Waveform\_19**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
652580.0	76.9	9	2	1879.0	1646.0	-
917934.0	63.6	9	1	1593.0	-	-
92676.0	81.1	9	2	1706.0	1465.0	-
356474.0	68.2	9	2	1249.0	1959.0	-
620470.0	78.0	9	2	1832.0	1036.0	-
885394.0	64.4	9	1	1589.0	-	-
60156.0	94.1	9	3	1395.0	1150.0	1055.0
323604.0	94.6	9	3	1999.0	1307.0	1163.0
588755.0	61.1	9	1	1408.0	-	-
852470.0	67.6	9	2	1010.0	1066.0	-
27645.0	92.1	9	3	1833.0	1092.0	1810.0

**Type 5 Radar Waveform\_20**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
356514.0	77.9	6	2	1061.0	1913.0	-
678676.0	87.5	6	3	1005.0	1715.0	1217.0
1002708.0	65.9	6	1	1798.0	-	-
1322932.0	86.2	6	3	1900.0	1080.0	1545.0
317031.0	62.5	6	1	1880.0	-	-
639635.0	75.7	6	2	1099.0	1436.0	-
961537.0	86.0	6	3	1595.0	1013.0	1114.0
1282981.0	97.9	6	3	1743.0	1341.0	1704.0
276736.0	93.1	6	3	1539.0	1651.0	1180.0

**Type 5 Radar Waveform\_21**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
316374.0	91.6	17	3	1428.0	1260.0	1337.0
486002.0	94.4	17	3	1750.0	1266.0	1866.0
657734.0	69.5	17	2	1940.0	1107.0	-
125404.0	76.8	17	2	1624.0	1164.0	-
295243.0	90.9	17	3	1512.0	1726.0	1176.0
467185.0	52.5	17	1	1679.0	-	-
637797.0	54.1	17	1	1877.0	-	-
104075.0	94.5	17	3	1703.0	1590.0	1683.0
274278.0	96.5	17	3	1450.0	1511.0	1475.0
444504.0	97.9	17	3	1655.0	1452.0	1167.0
617046.0	55.3	17	1	1557.0	-	-
83343.0	76.0	17	2	1648.0	1583.0	-
253821.0	81.9	17	2	1322.0	1733.0	-
424209.0	70.9	17	2	1889.0	1283.0	-
595153.0	66.9	17	2	1311.0	1253.0	-
62465.0	53.3	17	1	1956.0	-	-
233504.0	57.8	17	1	1004.0	-	-

**Type 5 Radar Waveform\_22**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
762745.0	99.1	7	3	1338.0	1513.0	1195.0
1087130.0	58.9	7	1	1607.0	-	-
78275.0	74.9	7	2	1951.0	1596.0	-
400919.0	77.9	7	2	1434.0	1685.0	-
723620.0	76.6	7	2	1872.0	1097.0	-
1046143.0	82.0	7	2	1440.0	1696.0	-
38605.0	54.4	7	1	1579.0	-	-
361048.0	79.1	7	2	1812.0	1791.0	-
683826.0	71.3	7	2	1340.0	1725.0	-

**Type 5 Radar Waveform\_23**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
696885.0	58.3	11	1	1982.0	-	-
918499.0	83.9	11	3	1274.0	1442.0	1048.0
222310.0	69.7	11	2	1867.0	1228.0	-
445484.0	72.8	11	2	1087.0	1905.0	-
668975.0	52.3	11	1	1146.0	-	-
891584.0	73.4	11	2	1332.0	1865.0	-
194906.0	67.8	11	2	1145.0	1569.0	-
417347.0	89.8	11	3	1954.0	1393.0	1076.0
642130.0	56.4	11	1	1581.0	-	-
864085.0	82.5	11	2	1402.0	1815.0	-
166965.0	94.2	11	3	1991.0	1490.0	1687.0
391299.0	54.3	11	1	1134.0	-	-
613440.0	77.3	11	2	1902.0	1420.0	-

**Type 5 Radar Waveform\_24**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
989361.0	75.4	9	2	1314.0	1778.0	-
165595.0	60.2	9	1	1634.0	-	-
428668.0	99.6	9	3	1371.0	1987.0	1091.0
691664.0	98.1	9	3	1654.0	1781.0	1806.0
958608.0	63.3	9	1	1108.0	-	-
133056.0	62.3	9	1	1609.0	-	-
397447.0	66.1	9	1	1059.0	-	-
659821.0	96.1	9	3	1498.0	1488.0	1282.0
925717.0	66.5	9	1	1501.0	-	-
100193.0	99.1	9	3	1847.0	1699.0	1538.0
364066.0	82.8	9	2	1598.0	1917.0	-

**Type 5 Radar Waveform\_25**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
432032.0	54.7	15	1	1681.0	-	-
612748.0	76.6	15	2	1023.0	1603.0	-
46582.0	77.1	15	2	1489.0	1995.0	-
227942.0	72.9	15	2	1277.0	1205.0	-
409861.0	65.1	15	1	1344.0	-	-
591547.0	64.9	15	1	1201.0	-	-
24332.0	62.3	15	1	1919.0	-	-
205919.0	65.0	15	1	1358.0	-	-
386077.0	97.7	15	3	1045.0	1153.0	1887.0
567875.0	69.5	15	2	1630.0	1284.0	-
1977.0	94.3	15	3	1729.0	1225.0	1482.0
183245.0	70.2	15	2	1008.0	1612.0	-
364183.0	74.7	15	2	1413.0	1873.0	-
545552.0	73.7	15	2	1112.0	1806.0	-
725374.0	95.6	15	3	1011.0	1869.0	1446.0
160913.0	82.0	15	2	1268.0	1370.0	-

**Type 5 Radar Waveform\_26**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
288359.0	58.2	19	1	1755.0	-	-
439177.0	92.1	19	3	1019.0	1553.0	1944.0
593924.0	64.5	19	1	1690.0	-	-
116413.0	84.4	19	3	1562.0	1121.0	1111.0
269825.0	59.2	19	1	1095.0	-	-
422483.0	53.5	19	1	1474.0	-	-
574160.0	71.7	19	2	1702.0	1025.0	-
97517.0	83.6	19	3	1752.0	1577.0	1369.0
250653.0	64.7	19	1	1941.0	-	-
402527.0	78.3	19	2	1757.0	1485.0	-
555514.0	78.6	19	2	1034.0	1534.0	-
78941.0	68.7	19	2	1543.0	1952.0	-
231159.0	92.2	19	3	1162.0	1445.0	1193.0
385011.0	63.0	19	1	1187.0	-	-
536750.0	75.3	19	2	1082.0	1453.0	-
60103.0	91.9	19	3	1063.0	1209.0	1996.0
212026.0	84.9	19	3	1955.0	1234.0	1730.0
364356.0	67.0	19	3	1127.0	1677.0	1520.0
517085.0	66.1	19	2	1714.0	1681.0	-

**Type 5 Radar Waveform\_27**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
52546.0	75.7	14	2	1989.0	1102.0	-
245334.0	96.4	14	3	1477.0	1399.0	1792.0
438652.0	94.9	14	3	1472.0	1155.0	1272.0
632833.0	74.6	14	2	1494.0	1016.0	-
28677.0	91.6	14	3	1071.0	1993.0	1719.0
221904.0	70.1	14	2	1870.0	1615.0	-
415090.0	79.1	14	2	1839.0	1635.0	-
609842.0	56.7	14	1	1418.0	-	-
4940.0	57.8	14	1	1728.0	-	-
198093.0	81.1	14	2	1766.0	1782.0	-
390787.0	90.0	14	3	1289.0	1525.0	1692.0
585180.0	74.9	14	2	1094.0	1423.0	-
778192.0	74.3	14	2	1463.0	1466.0	-
174534.0	67.8	14	2	1394.0	1081.0	-
367699.0	80.3	14	2	1093.0	1948.0	-

**Type 5 Radar Waveform\_28**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
602173.0	57.9	13	1	1671.0	-	-
810026.0	53.9	13	1	1276.0	-	-
161710.0	52.0	13	1	1401.0	-	-
369338.0	64.6	13	1	1207.0	-	-
575902.0	73.6	13	2	1378.0	1353.0	-
784698.0	51.1	13	1	1014.0	-	-
136156.0	54.8	13	1	1335.0	-	-
342560.0	93.6	13	3	1160.0	1644.0	1409.0
551481.0	58.2	13	1	1018.0	-	-
755366.0	86.9	13	3	1496.0	1846.0	1907.0
110224.0	86.4	13	3	1875.0	1027.0	1263.0
316910.0	93.7	13	3	1570.0	1843.0	1256.0
524707.0	72.9	13	2	1510.0	1458.0	-
730627.0	84.6	13	3	1572.0	1391.0	1457.0

**Type 5 Radar Waveform\_29**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
69625.0	94.2	16	3	1571.0	1586.0	1904.0
240981.0	52.4	16	1	1012.0	-	-
409948.0	85.4	16	3	1768.0	1594.0	1049.0
580651.0	87.8	16	3	1032.0	1461.0	1223.0
48962.0	55.6	16	1	1131.0	-	-
219291.0	69.8	16	2	1300.0	1737.0	-
389438.0	85.6	16	3	1279.0	1117.0	1210.0
561331.0	63.3	16	1	1638.0	-	-
27841.0	67.5	16	2	1381.0	1430.0	-
198220.0	72.9	16	2	1769.0	1531.0	-
369532.0	64.2	16	1	1560.0	-	-
539345.0	80.1	16	2	1614.0	1259.0	-
6818.0	96.9	16	3	1235.0	1918.0	1657.0
177758.0	63.9	16	1	1212.0	-	-
348709.0	52.4	16	1	1118.0	-	-
518663.0	74.7	16	2	1350.0	1088.0	-
689725.0	53.3	16	1	1975.0	-	-

**Type 5 Radar Waveform\_30**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
242209.0	54.2	9	1	1749.0	-	-
506706.0	50.9	9	1	1015.0	-	-
770904.0	61.8	9	1	1208.0	-	-
1035099.0	55.1	9	1	1305.0	-	-
209426.0	71.4	9	2	1899.0	1128.0	-
472661.0	89.9	9	3	1924.0	1323.0	1182.0
736993.0	70.2	9	2	1868.0	1342.0	-
1002120.0	63.3	9	1	1770.0	-	-
176863.0	66.9	9	2	1814.0	1597.0	-
441041.0	70.9	9	2	1074.0	1288.0	-
705525.0	52.8	9	1	1625.0	-	-

## Radar Type 6 - Radar Statistical Performance

Trail #	1=Detection 0=No Detection	Trail #	1=Detection 0=No Detection
1	1	16	1
2	1	17	1
3	1	18	1
4	1	19	1
5	1	20	1
6	1	21	1
7	1	22	1
8	1	23	1
9	1	24	1
10	1	25	1
11	1	26	1
12	1	27	1
13	1	28	1
14	1	29	1
15	1	30	1
Detection Percentage (%)			100%

## Type 6 Radar Waveform\_1

Frequency List (MHz)	0	1	2	3	4
0	5251	5675	5306	5299	5639
5	5486	5347	5543	5613	5720
10	5621	5644	5473	5295	5352
15	5712	5465	5257	5276	5666
20	5416	5393	5456	5610	5545
25	5522	5436	5511	5265	5491
30	5282	5648	5549	5622	5703
35	5432	5472	5685	5390	5628
40	5704	5420	5332	5695	5479
45	5476	5531	5262	5681	5460
50	5510	5323	5322	5680	5469
55	5421	5367	5397	5561	5625
60	5310	5698	5345	5576	5317
65	5645	5438	5340	5394	5611
70	5385	5437	5320	5471	5316
75	5296	5517	5327	5253	5535
80	5547	5388	5573	5550	5370
85	5450	5718	5568	5426	5298
90	5272	5722	5384	5674	5688
95	5413	5624	5663	5707	5506

## Type 6 Radar Waveform\_2

Frequency List (MHz)	0	1	2	3	4
0	5506	5439	5717	5363	5384
5	5528	5272	5618	5301	5549
10	5455	5433	5514	5393	5373
15	5325	5592	5360	5321	5480
20	5327	5559	5397	5699	5518
25	5313	5288	5714	5369	5525
30	5324	5537	5362	5477	5252
35	5663	5563	5481	5640	5542
40	5543	5503	5648	5476	5308
45	5624	5614	5320	5259	5347
50	5386	5499	5294	5292	5365
55	5667	5587	5380	5596	5501
60	5475	5643	5652	5263	5371
65	5387	5376	5604	5606	5306
70	5571	5586	5255	5486	5447
75	5396	5516	5498	5354	5530
80	5685	5645	5621	5410	5303
85	5509	5520	5445	5631	5708
90	5493	5658	5705	5468	5608
95	5561	5589	5713	5504	5625

## Type 6 Radar Waveform\_3

Frequency List (MHz)	0	1	2	3	4
0	5286	5678	5653	5524	5604
5	5667	5294	5693	5464	5281
10	5386	5697	5555	5588	5394
15	5413	5719	5463	5366	5672
20	5335	5628	5435	5691	5491
25	5676	5712	5442	5473	5559
30	5523	5480	5629	5450	5327
35	5654	5277	5318	5456	5382
40	5586	5603	5312	5612	5262
45	5675	5424	5383	5590	5687
50	5380	5275	5680	5674	5470
55	5630	5640	5685	5581	5325
60	5684	5669	5336	5315	5436
65	5298	5466	5389	5574	5268
70	5689	5356	5497	5576	5608
75	5610	5306	5593	5682	5365
80	5349	5363	5259	5303	5293
85	5265	5714	5637	5645	5278
90	5670	5722	5459	5568	5341
95	5266	5599	5362	5311	5454

## Type 6 Radar Waveform\_4

Frequency List (MHz)	0	1	2	3	4
0	5541	5442	5589	5685	5446
5	5709	5694	5293	5627	5488
10	5695	5486	5596	5308	5415
15	5501	5274	5566	5314	5389
20	5343	5319	5376	5305	5464
25	5467	5564	5548	5577	5593
30	5505	5412	5420	5403	5270
35	5466	5645	5471	5318	5291
40	5524	5368	5567	5544	5584
45	5339	5365	5499	5516	5475
50	5472	5316	5631	5568	5704
55	5395	5396	5441	5284	5330
60	5630	5413	5626	5252	5285
65	5351	5268	5665	5269	5372
70	5375	5662	5719	5648	5327
75	5590	5585	5575	5353	5621
80	5391	5470	5656	5679	5657
85	5666	5326	5321	5602	5257
90	5444	5463	5404	5265	5635
95	5304	5361	5481	5673	5454



## Type 6 Radar Waveform\_5

Frequency List (MHz)	0	1	2	3	4
0	5321	5681	5525	5371	5666
5	5276	5716	5368	5693	5317
10	5626	5372	5637	5503	5436
15	5492	5401	5572	5359	5581
20	5254	5485	5297	5437	5355
25	5513	5303	5627	5547	5301
30	5377	5435	5652	5565	5605
35	5361	5441	5721	5381	5632
40	5374	5462	5608	5564	5473
45	5388	5397	5418	5289	5392
50	5552	5526	5561	5614	5478
55	5281	5658	5585	5690	5412
60	5413	5495	5575	5720	5549
65	5673	5709	5290	5460	5444
70	5677	5511	5695	5607	5674
75	5710	5253	5556	5508	5256
80	5647	5634	5341	5676	5427
85	5386	5416	5567	5308	5692
90	5283	5569	5271	5616	5420
95	5378	5536	5657	5352	5429

## Type 6 Radar Waveform\_6

Frequency List (MHz)	0	1	2	3	4
0	5479	5445	5461	5532	5508
5	5318	5641	5443	5381	5524
10	5557	5636	5678	5698	5457
15	5580	5528	5675	5404	5298
20	5262	5554	5355	5386	5410
25	5621	5365	5407	5661	5589
30	5287	5334	5650	5329	5288
35	5647	5452	5712	5399	5295
40	5471	5400	5276	5561	5402
45	5544	5356	5268	5253	5577
50	5272	5437	5422	5372	5612
55	5300	5509	5383	5542	5660
60	5617	5552	5375	5619	5419
65	5658	5326	5310	5352	5613
70	5347	5680	5360	5671	5566
75	5643	5299	5537	5285	5269
80	5426	5323	5673	5572	5330
85	5447	5349	5608	5435	5465
90	5481	5259	5277	5302	5425
95	5395	5591	5263	5250	5311

## Type 6 Radar Waveform\_7

Frequency List (MHz)	0	1	2	3	4
0	5259	5684	5397	5693	5253
5	5457	5663	5518	5544	5256
10	5381	5425	5719	5321	5478
15	5668	5655	5303	5449	5490
20	5270	5720	5296	5378	5383
25	5509	5692	5682	5511	5695
30	5651	5291	5293	5578	5583
35	5311	5640	5605	5552	5306
40	5310	5637	5338	5516	5558
45	5709	5427	5554	5416	5524
50	5441	5522	5429	5628	5361
55	5260	5269	5560	5566	5706
60	5257	5574	5350	5562	5384
65	5298	5565	5717	5607	5362
70	5520	5622	5531	5685	5430
75	5305	5550	5525	5515	5442
80	5537	5379	5390	5467	5670
85	5292	5330	5289	5409	5325
90	5313	5713	5301	5424	5283
95	5587	5659	5534	5412	5646

**Type 6 Radar Waveform\_8**

Frequency List (MHz)	0	1	2	3	4
0	5514	5448	5333	5379	5570
5	5499	5588	5593	5707	5463
10	5322	5689	5285	5516	5281
15	5307	5406	5397	5682	5656
20	5314	5712	5487	5356	5641
25	5410	5615	5254	5295	5540
30	5723	5508	5255	5308	5450
35	5256	5401	5705	5695	5721
40	5720	5276	5555	5638	5407
45	5637	5474	5480	5706	5398
50	5605	5679	5461	5688	5273
55	5520	5680	5525	5703	5515
60	5507	5313	5599	5608	5443
65	5556	5301	5352	5417	5334
70	5282	5416	5308	5436	5526
75	5484	5498	5488	5489	5465
80	5554	5530	5487	5708	5606
85	5372	5420	5268	5267	5486
90	5589	5289	5621	5444	5643
95	5701	5521	5647	5381	5500

**Type 6 Radar Waveform\_9**

Frequency List (MHz)	0	1	2	3	4
0	5294	5687	5269	5540	5315
5	5541	5610	5668	5298	5292
10	5253	5478	5423	5711	5520
15	5369	5337	5509	5442	5399
20	5664	5480	5275	5459	5329
25	5663	5493	5516	5341	5288
30	5526	5680	5723	5504	5601
35	5492	5347	5672	5609	5560
40	5328	5592	5521	5552	5470
45	5387	5720	5435	5533	5593
50	5274	5306	5255	5539	5284
55	5535	5461	5474	5395	5344
60	5674	5357	5452	5620	5425
65	5554	5266	5602	5562	5309
70	5612	5451	5402	5408	5285
75	5502	5443	5453	5618	5631
80	5566	5721	5718	5690	5567
85	5304	5708	5545	5432	5611
90	5318	5259	5319	5279	5392
95	5655	5326	5543	5281	5312

**Type 6 Radar Waveform\_10**

Frequency List (MHz)	0	1	2	3	4
0	5452	5451	5680	5604	5632
5	5535	5268	5461	5499	5562
10	5364	5464	5431	5541	5360
15	5515	5487	5688	5672	5549
20	5691	5548	5302	5551	5442
25	5719	5445	5322	5379	5415
30	5637	5463	5656	5324	5631
35	5438	5468	5633	5620	5399
40	5411	5530	5664	5646	5367
45	5328	5493	5586	5383	5625
50	5482	5306	5250	5582	5479
55	5649	5428	5488	5638	5645
60	5486	5370	5494	5348	5500
65	5467	5276	5394	5579	5523
70	5388	5609	5478	5402	5325
75	5263	5677	5721	5612	5502
80	5407	5278	5564	5611	5387
85	5395	5707	5576	5272	5507
90	5517	5444	5398	5592	5289
95	5560	5336	5296	5414	5605



**Type 6 Radar Waveform\_11**

Frequency List (MHz)	0	1	2	3	4
0	5707	5690	5616	5290	5377
5	5722	5557	5343	5624	5706
10	5493	5628	5505	5626	5562
15	5448	5591	5618	5435	5405
20	5583	5715	5632	5540	5275
25	5342	5294	5447	5549	5356
30	5518	5304	5594	5581	5430
35	5619	5295	5529	5361	5311
40	5534	5713	5468	5429	5643
45	5328	5347	5411	5551	5639
50	5270	5404	5658	5357	5339
55	5326	5362	5382	5678	5360
60	5519	5615	5535	5439	5284
65	5649	5543	5668	5500	5312
70	5604	5471	5596	5692	5414
75	5458	5454	5363	5345	5442
80	5498	5263	5474	5341	5561
85	5694	5514	5455	5424	5444
90	5701	5280	5337	5609	5398
95	5577	5391	5487	5716	5255

**Type 6 Radar Waveform\_12**

Frequency List (MHz)	0	1	2	3	4
0	5487	5454	5552	5451	5694
5	5289	5462	5418	5312	5535
10	5327	5417	5546	5724	5583
15	5536	5718	5721	5480	5597
20	5591	5309	5670	5629	5723
25	5705	5621	5650	5653	5390
30	5560	5290	5551	5321	5582
35	5439	5434	5717	5632	5561
40	5448	5674	5406	5669	5640
45	5635	5494	5512	5692	5280
50	5262	5408	5428	5606	5270
55	5550	5336	5393	5654	5490
60	5269	5700	5384	5688	5475
65	5489	5491	5449	5348	5436
70	5266	5399	5457	5514	5307
75	5430	5320	5641	5488	5423
80	5275	5260	5539	5636	5404
85	5558	5414	5643	5616	5409
90	5277	5431	5299	5410	5563
95	5350	5691	5446	5361	5685

**Type 6 Radar Waveform\_13**

Frequency List (MHz)	0	1	2	3	4
0	5267	5315	5488	5612	5439
5	5331	5504	5493	5378	5258
10	5681	5587	5444	5604	5624
15	5370	5349	5525	5314	5599
20	5475	5611	5621	5696	5496
25	5570	5379	5424	5602	5654
30	5508	5536	5356	5637	5476
35	5333	5428	5714	5459	5282
40	5344	5337	5564	5685	5577
45	5270	5422	5631	5438	5517
50	5429	5592	5641	5668	5583
55	5473	5461	5301	5390	5329
60	5520	5398	5435	5692	5287
65	5646	5677	5458	5443	5534
70	5309	5279	5610	5526	5501
75	5527	5320	5327	5706	5417
80	5485	5478	5711	5277	5679
85	5355	5464	5513	5597	5519
90	5708	5345	5348	5421	5308
95	5261	5672	5652	5622	5306

**Type 6 Radar Waveform\_14**

Frequency List (MHz)	0	1	2	3	4
0	5425	5554	5424	5298	5281
5	5470	5429	5568	5541	5474
10	5664	5628	5639	5625	5615
15	5400	5452	5570	5506	5510
20	5544	5552	5710	5669	5384
25	5422	5484	5483	5458	5266
30	5640	5465	5276	5508	5457
35	5321	5392	5373	5327	5365
40	5282	5577	5634	5396	5665
45	5660	5701	5687	5507	5614
50	5703	5252	5536	5354	5622
55	5670	5432	5430	5555	5371
60	5352	5699	5381	5515	5347
65	5323	5478	5428	5480	5530
70	5617	5383	5285	5713	5482
75	5646	5677	5304	5576	5491
80	5627	5455	5426	5320	5441
85	5717	5553	5629	5519	5534
90	5492	5250	5556	5329	5481
95	5524	5403	5416	5256	5295

**Type 6 Radar Waveform\_15**

Frequency List (MHz)	0	1	2	3	4
0	5680	5318	5360	5459	5501
5	5512	5451	5643	5704	5303
10	5498	5356	5669	5359	5646
15	5703	5527	5458	5518	5698
20	5710	5493	5702	5642	5272
25	5371	5687	5587	5395	5308
30	5529	5422	5394	5282	5655
35	5279	5515	5592	5287	5641
40	5545	5695	5342	5253	5325
45	5645	5268	5589	5574	5286
50	5315	5561	5317	5550	5383
55	5542	5576	5488	5489	5306
60	5559	5720	5316	5659	5622
65	5424	5716	5296	5688	5283
70	5699	5620	5707	5261	5672
75	5291	5723	5463	5556	5357
80	5558	5690	5452	5621	5320
85	5266	5404	5585	5711	5700
90	5276	5319	5525	5568	5277
95	5640	5267	5611	5410	5379

**Type 6 Radar Waveform\_16**

Frequency List (MHz)	0	1	2	3	4
0	5460	5557	5296	5620	5343
5	5554	5376	5718	5392	5510
10	5429	5710	5667	5316	5654
15	5561	5563	5415	5526	5401
20	5531	5615	5538	5698	5691
25	5350	5418	5379	5609	5434
30	5475	5606	5388	5320	5676
35	5480	5628	5633	5582	5250
40	5254	5625	5351	5647	5332
45	5364	5637	5491	5612	5406
50	5276	5327	5255	5530	5678
55	5308	5277	5688	5410	5261
60	5448	5370	5539	5720	5298
65	5520	5590	5464	5498	5556
70	5712	5631	5420	5411	5391
75	5444	5711	5603	5613	5722
80	5375	5449	5341	5583	5715
85	5550	5287	5473	5571	5484
90	5505	5634	5274	5284	5666
95	5394	5663	5378	5593	5365

**Type 6 Radar Waveform\_17**

Frequency List (MHz)	0	1	2	3	4
0	5715	5321	5707	5684	5563
5	5596	5398	5318	5458	5717
10	5360	5409	5373	5652	5688
15	5404	5306	5664	5608	5607
20	5437	5470	5472	5308	5588
25	5426	5550	5618	5417	5463
30	5489	5336	5349	5683	5673
35	5460	5319	5659	5473	5687
40	5416	5711	5474	5250	5722
45	5561	5605	5434	5705	5385
50	5251	5513	5667	5663	5495
55	5574	5649	5443	5484	5296
60	5602	5723	5342	5575	5681
65	5420	5274	5316	5265	5669
70	5334	5255	5267	5368	5590
75	5292	5425	5488	5616	5394
80	5411	5438	5446	5536	5601
85	5522	5427	5432	5418	5716
90	5721	5294	5537	5539	5516
95	5286	5378	5272	5545	5261

**Type 6 Radar Waveform\_18**

Frequency List (MHz)	0	1	2	3	4
0	5495	5560	5643	5370	5405
5	5260	5323	5393	5621	5546
10	5669	5673	5414	5372	5709
15	5395	5433	5292	5653	5421
20	5445	5636	5413	5397	5561
25	5692	5499	5346	5521	5497
30	5531	5293	5564	5360	5493
35	5599	5410	5552	5723	5601
40	5255	5416	5412	5490	5719
45	5585	5517	5666	5438	5516
50	5389	5368	5714	5584	5593
55	5631	5486	5324	5694	5374
60	5265	5252	5672	5359	5466
65	5618	5273	5562	5655	5545
70	5537	5567	5348	5632	5549
75	5261	5554	5580	5406	5251
80	5650	5575	5501	5353	5364
85	5487	5527	5383	5494	5589
90	5339	5640	5573	5301	5415
95	5459	5645	5524	5396	5686

**Type 6 Radar Waveform\_19**

Frequency List (MHz)	0	1	2	3	4
0	5653	5324	5579	5531	5625
5	5302	5345	5468	5309	5278
10	5600	5462	5455	5567	5255
15	5483	5463	5395	5601	5613
20	5453	5705	5451	5389	5534
25	5580	5351	5452	5573	5657
30	5250	5682	5609	5691	5263
35	5501	5348	5401	5515	5569
40	5499	5350	5716	5322	5724
45	5491	5403	5643	5544	5290
50	5295	5695	5440	5722	5392
55	5676	5618	5568	5503	5430
60	5668	5559	5498	5305	5289
65	5297	5547	5553	5481	5543
70	5508	5608	5674	5626	5387
75	5517	5361	5431	5642	5564
80	5343	5548	5504	5303	5450
85	5719	5251	5721	5645	5312
90	5646	5510	5658	5432	5356
95	5443	5406	5467	5594	5306



**Type 6 Radar Waveform\_20**

Frequency List (MHz)	0	1	2	3	4
0	5433	5563	5515	5692	5467
5	5344	5270	5543	5472	5485
10	5531	5348	5496	5287	5276
15	5571	5590	5401	5646	5330
20	5461	5396	5392	5478	5507
25	5371	5300	5655	5254	5565
30	5712	5643	5682	5422	5286
35	5511	5305	5592	5619	5554
40	5526	5408	5582	5288	5495
45	5335	5251	5448	5683	5307
50	5447	5668	5519	5720	5341
55	5384	5518	5435	5348	5391
60	5437	5539	5632	5595	5613
65	5324	5490	5516	5345	5604
70	5342	5626	5303	5354	5577
75	5319	5294	5368	5374	5687
80	5331	5724	5340	5268	5407
85	5620	5510	5436	5691	5297
90	5418	5607	5669	5652	5544
95	5443	5449	5411	5427	5441

**Type 6 Radar Waveform\_21**

Frequency List (MHz)	0	1	2	3	4
0	5688	5327	5451	5378	5687
5	5386	5292	5618	5635	5314
10	5365	5612	5537	5482	5297
15	5659	5717	5504	5691	5522
20	5372	5465	5333	5470	5480
25	5259	5627	5383	5455	5599
30	5279	5532	5639	5637	5535
35	5331	5444	5683	5512	5329
40	5440	5722	5665	5701	5638
45	5332	5655	5428	5291	5268
50	5500	5555	5395	5421	5392
55	5473	5719	5706	5623	5300
60	5581	5634	5510	5286	5285
65	5698	5672	5313	5284	5339
70	5709	5375	5525	5454	5654
75	5495	5426	5449	5342	5437
80	5349	5484	5468	5312	5337
85	5463	5407	5462	5531	5559
90	5251	5666	5330	5359	5658
95	5481	5325	5625	5563	5466

**Type 6 Radar Waveform\_22**

Frequency List (MHz)	0	1	2	3	4
0	5468	5566	5387	5539	5529
5	5525	5692	5693	5701	5521
10	5296	5401	5578	5580	5318
15	5650	5369	5607	5261	5714
20	5380	5631	5371	5559	5453
25	5622	5479	5586	5633	5321
30	5518	5596	5377	5687	5583
35	5299	5308	5482	5354	5658
40	5370	5639	5403	5329	5487
45	5408	5374	5326	5553	5345
50	5649	5597	5443	5562	5542
55	5336	5254	5481	5415	5450
60	5600	5627	5548	5715	5514
65	5414	5320	5646	5504	5610
70	5544	5608	5457	5406	5471
75	5385	5418	5462	5483	5427
80	5594	5724	5659	5375	5334
85	5310	5533	5723	5524	5302
90	5439	5625	5286	5515	5585
95	5259	5492	5712	5721	5301

## Type 6 Radar Waveform\_23

Frequency List (MHz)	0	1	2	3	4
0	5626	5330	5323	5700	5274
5	5567	5714	5293	5389	5253
10	5605	5665	5619	5300	5339
15	5263	5496	5710	5684	5431
20	5388	5312	5551	5426	5413
25	5428	5314	5663	5667	5363
30	5407	5553	5495	5481	5349
35	5722	5487	5579	5635	5365
40	5497	5453	5577	5643	5326
45	5416	5457	5384	5606	5707
50	5525	5298	5494	5273	5524
55	5683	5486	5272	5355	5447
60	5615	5545	5459	5471	5661
65	5337	5259	5381	5299	5616
70	5594	5557	5255	5344	5290
75	5582	5408	5478	5607	5505
80	5251	5535	5709	5475	5688
85	5718	5343	5392	5256	5687
90	5348	5689	5292	5452	5467
95	5271	5597	5576	5476	5404

## Type 6 Radar Waveform\_24

Frequency List (MHz)	0	1	2	3	4
0	5406	5569	5259	5386	5591
5	5609	5261	5368	5552	5460
10	5536	5454	5660	5495	5360
15	5351	5526	5338	5254	5623
20	5299	5391	5253	5640	5399
25	5301	5280	5420	5292	5701
30	5502	5296	5510	5710	5613
35	5547	5289	5578	5375	5410
40	5279	5336	5418	5311	5323
45	5723	5540	5345	5659	5497
50	5401	5474	5545	5362	5663
55	5441	5712	5637	5579	5566
60	5326	5576	5305	5490	5291
65	5297	5607	5538	5312	5295
70	5688	5666	5691	5310	5580
75	5560	5303	5702	5672	5389
80	5255	5717	5286	5415	5598
85	5706	5670	5556	5535	5357
90	5685	5643	5379	5298	5486
95	5349	5380	5614	5631	5557

## Type 6 Radar Waveform\_25

Frequency List (MHz)	0	1	2	3	4
0	5661	5333	5670	5450	5336
5	5651	5443	5715	5289	5467
10	5340	5323	5690	5381	5439
15	5653	5344	5299	5307	5460
20	5291	5632	5372	5567	5704
25	5623	5396	5260	5544	5282
30	5387	5367	5428	5669	5268
35	5563	5668	5650	5716	5356
40	5551	5417	5652	5348	5403
45	5712	5384	5277	5596	5451
50	5389	5288	5425	5494	5294
55	5297	5705	5470	5532	5598
60	5264	5261	5331	5423	5461
65	5382	5566	5660	5302	5262
70	5703	5347	5370	5507	5255
75	5542	5579	5390	5591	5499
80	5519	5252	5700	5708	5366
85	5304	5609	5489	5631	5686
90	5541	5503	5561	5610	5682
95	5373	5413	5310	5527	5714

**Type 6 Radar Waveform\_26**

Frequency List (MHz)	0	1	2	3	4
0	5441	5572	5606	5611	5653
5	5315	5683	5518	5306	5496
10	5301	5604	5364	5410	5402
15	5430	5305	5447	5722	5629
20	5626	5707	5721	5345	5455
25	5556	5351	5597	5294	5586
30	5646	5424	5665	5539	5565
35	5567	5285	5716	5679	5324
40	5316	5414	5581	5706	5461
45	5668	5649	5531	5647	5540
50	5687	5516	5448	5484	5582
55	5359	5635	5477	5527	5521
60	5596	5562	5685	5270	5255
65	5353	5675	5551	5663	5655
70	5278	5696	5575	5370	5386
75	5284	5365	5323	5268	5724
80	5700	5585	5494	5341	5579
85	5347	5690	5384	5661	5709
90	5310	5457	5491	5501	5266
95	5525	5401	5443	5713	5274

**Type 6 Radar Waveform\_27**

Frequency List (MHz)	0	1	2	3	4
0	5696	5336	5542	5297	5398
5	5357	5608	5593	5469	5703
10	5707	5393	5405	5508	5423
15	5518	5432	5550	5292	5346
20	5701	5317	5648	5713	5318
25	5721	5408	5554	5328	5250
30	5535	5381	5308	5313	5385
35	5609	5376	5335	5491	5425
40	5407	5556	5411	5413	5686
45	5314	5519	5536	5527	5698
50	5251	5510	5704	5402	5674
55	5401	5617	5488	5325	5422
60	5359	5347	5288	5634	5306
65	5465	5623	5478	5635	5504
70	5254	5655	5544	5490	5529
75	5332	5439	5475	5579	5409
80	5697	5494	5658	5539	5533
85	5266	5632	5384	5399	5276
90	5610	5287	5321	5606	5299
95	5341	5569	5397	5322	5477

**Type 6 Radar Waveform\_28**

Frequency List (MHz)	0	1	2	3	4
0	5379	5672	5478	5458	5715
5	5399	5630	5668	5632	5532
10	5638	5657	5446	5703	5444
15	5606	5559	5653	5337	5538
20	5709	5386	5589	5327	5291
25	5609	5357	5282	5330	5362
30	5292	5521	5338	5523	5465
35	5660	5273	5564	5644	5507
40	5264	5490	5645	5699	5408
45	5342	5666	5397	5480	5299
50	5326	5283	5274	5340	5333
55	5498	5417	5356	5389	5598
60	5588	5617	5367	5648	5488
65	5586	5583	5720	5297	5418
70	5281	5695	5621	5353	5705
75	5614	5416	5610	5575	5313
80	5691	5360	5499	5472	5694
85	5597	5505	5634	5401	5405
90	5582	5419	5428	5633	5622
95	5304	5376	5590	5395	5534



**Type 6 Radar Waveform\_29**

Frequency List (MHz)	0	1	2	3	4
0	5634	5436	5414	5619	5460
5	5441	5555	5268	5320	5264
10	5472	5446	5487	5423	5465
15	5694	5589	5281	5382	5255
20	5717	5552	5627	5319	5400
25	5684	5388	5434	5396	5334
30	5410	5295	5263	5714	5403
35	5412	5655	5499	5322	5518
40	5578	5670	5583	5464	5405
45	5649	5646	5480	5538	5352
50	5688	5404	5325	5429	5534
55	5345	5605	5310	5579	5417
60	5559	5409	5498	5571	5531
65	5312	5532	5507	5389	5607
70	5294	5677	5681	5573	5385
75	5718	5468	5598	5616	5663
80	5535	5594	5317	5300	5439
85	5565	5351	5366	5271	5653
90	5402	5254	5425	5462	5515
95	5256	5321	5431	5574	5687

**Type 6 Radar Waveform\_30**

Frequency List (MHz)	0	1	2	3	4
0	5414	5675	5350	5305	5302
5	5580	5577	5343	5386	5471
10	5403	5332	5528	5618	5486
15	5685	5716	5287	5330	5447
20	5628	5621	5568	5408	5712
25	5288	5633	5591	5635	5430
30	5473	5299	5252	5478	5391
35	5698	5551	5271	5295	5572
40	5432	5417	5278	5521	5704
45	5499	5578	5626	5563	5596
50	5405	5413	5376	5518	5357
55	5289	5318	5264	5294	5711
60	5433	5303	5345	5354	5397
65	5477	5610	5481	5317	5339
70	5362	5461	5690	5394	5526
75	5560	5532	5257	5275	5720
80	5708	5352	5695	5512	5300
85	5378	5543	5709	5700	5426
90	5600	5419	5431	5399	5365
95	5435	5655	5565	5640	5650

Test Site	WZ-SR4	Test Engineer	Jake Lan
Test Date	2022/05/07		
Test Item	Radar Statistical Performance Check (802.11ax-HE40 - 5510MHz)		

## Radar Type 1 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	1=Detection 0=No Detection	Trail #	Test Freq. (MHz)	1=Detection 0=No Detection
1	5490	1	16	5510	1
2	5521	1	17	5523	1
3	5528	1	18	5507	1
4	5521	1	19	5515	1
5	5525	1	20	5496	1
6	5502	1	21	5514	1
7	5513	1	22	5515	1
8	5498	1	23	5530	1
9	5521	1	24	5507	1
10	5513	1	25	5524	1
11	5494	1	26	5516	1
12	5507	1	27	5514	1
13	5498	1	28	5527	1
14	5524	1	29	5517	1
15	5503	1	30	5502	1
Detection Percentage (%)					100%

## Radar Type 2 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	1=Detection 0=No Detection	Trail #	Test Freq. (MHz)	1=Detection 0=No Detection
1	5512	1	16	5526	1
2	5518	0	17	5504	1
3	5514	1	18	5508	1
4	5513	1	19	5517	1
5	5510	1	20	5495	0
6	5524	1	21	5490	1
7	5526	1	22	5500	1
8	5492	1	23	5508	1
9	5526	1	24	5528	1
10	5512	1	25	5515	1
11	5520	1	26	5529	0
12	5509	1	27	5506	1
13	5530	0	28	5515	1
14	5519	1	29	5502	1
15	5512	1	30	5519	0
Detection Percentage (%)					83.3%

## Radar Type 3 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	1=Detection 0=No Detection	Trail #	Test Freq. (MHz)	1=Detection 0=No Detection
1	5517	1	16	5495	1
2	5493	1	17	5498	0
3	5511	0	18	5526	1
4	5518	1	19	5516	1
5	5505	0	20	5501	0
6	5490	0	21	5530	1
7	5494	1	22	5492	1
8	5518	1	23	5505	1
9	5510	1	24	5493	1
10	5529	1	25	5498	1
11	5526	1	26	5528	1
12	5493	1	27	5498	1
13	5509	1	28	5496	1
14	5507	1	29	5500	1
15	5505	0	30	5495	1
Detection Percentage (%)					80%

## Radar Type 4 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	1=Detection 0=No Detection	Trail #	Test Freq. (MHz)	1=Detection 0=No Detection
1	5499	1	16	5509	1
2	5493	1	17	5496	1
3	5519	1	18	5502	0
4	5499	1	19	5490	1
5	5491	0	20	5530	0
6	5500	1	21	5495	1
7	5502	1	22	5520	1
8	5529	1	23	5513	0
9	5510	1	24	5509	1
10	5505	0	25	5517	1
11	5518	0	26	5524	1
12	5508	1	27	5513	1
13	5515	1	28	5495	0
14	5520	1	29	5525	1
15	5492	1	30	5528	0
Detection Percentage (%)					73.3%

Note: In addition an average minimum percentage of successful detection across all four Short pulse radar

test waveforms is as follows:  $\frac{P_d1 + P_d2 + P_d3 + P_d4}{4} = (100\% + 83.3\% + 80\% + 73.3\%) / 4 = 84.2\% (>80\%)$

**Type 1 Radar Statistical Performance**

	Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
Download	0	Type 1	1.0	858.0	62	53196.0
Download	1	Type 1	1.0	738.0	72	53136.0
Download	2	Type 1	1.0	878.0	61	53558.0
Download	3	Type 1	1.0	838.0	63	52794.0
Download	4	Type 1	1.0	898.0	59	52982.0
Download	5	Type 1	1.0	538.0	99	53282.0
Download	6	Type 1	1.0	658.0	81	53298.0
Download	7	Type 1	1.0	578.0	92	53176.0
Download	8	Type 1	1.0	778.0	68	52904.0
Download	9	Type 1	1.0	818.0	65	53170.0
Download	10	Type 1	1.0	698.0	76	53048.0
Download	11	Type 1	1.0	638.0	83	52954.0
Download	12	Type 1	1.0	558.0	95	53010.0
Download	13	Type 1	1.0	718.0	74	53132.0
Download	14	Type 1	1.0	938.0	57	53466.0
Download	15	Type 1	1.0	2766.0	20	55320.0
Download	16	Type 1	1.0	1974.0	27	53298.0
Download	17	Type 1	1.0	1853.0	29	53737.0
Download	18	Type 1	1.0	1958.0	27	52866.0
Download	19	Type 1	1.0	1573.0	34	53482.0
Download	20	Type 1	1.0	563.0	94	52922.0
Download	21	Type 1	1.0	1581.0	34	53754.0
Download	22	Type 1	1.0	2162.0	25	54050.0
Download	23	Type 1	1.0	2532.0	21	53172.0
Download	24	Type 1	1.0	2179.0	25	54475.0
Download	25	Type 1	1.0	939.0	57	53523.0
Download	26	Type 1	1.0	2467.0	22	54274.0
Download	27	Type 1	1.0	1636.0	33	53988.0
Download	28	Type 1	1.0	2705.0	20	54100.0
Download	29	Type 1	1.0	2475.0	22	54450.0

**Type 2 Radar Statistical Performance**

	Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
Download	0	Type 2	1.9	208.0	24	4992.0
Download	1	Type 2	3.8	151.0	27	4077.0
Download	2	Type 2	1.3	159.0	23	3657.0
Download	3	Type 2	4.0	215.0	28	6020.0
Download	4	Type 2	2.5	228.0	25	5700.0
Download	5	Type 2	2.1	185.0	24	4440.0
Download	6	Type 2	1.4	187.0	23	4301.0
Download	7	Type 2	1.6	201.0	24	4824.0
Download	8	Type 2	1.4	202.0	23	4646.0
Download	9	Type 2	4.7	170.0	29	4930.0
Download	10	Type 2	1.7	155.0	24	3720.0
Download	11	Type 2	5.0	152.0	29	4408.0
Download	12	Type 2	3.3	205.0	27	5535.0
Download	13	Type 2	4.5	192.0	29	5568.0
Download	14	Type 2	3.4	171.0	27	4617.0
Download	15	Type 2	4.7	230.0	29	6670.0
Download	16	Type 2	1.8	157.0	24	3768.0
Download	17	Type 2	1.1	200.0	23	4600.0
Download	18	Type 2	1.8	224.0	24	5376.0
Download	19	Type 2	3.9	216.0	28	6048.0
Download	20	Type 2	2.0	225.0	24	5400.0
Download	21	Type 2	1.2	153.0	23	3519.0
Download	22	Type 2	3.0	222.0	26	5772.0
Download	23	Type 2	4.9	221.0	29	6409.0
Download	24	Type 2	2.5	206.0	25	5150.0
Download	25	Type 2	4.7	160.0	29	4640.0
Download	26	Type 2	2.2	204.0	25	5100.0
Download	27	Type 2	2.2	190.0	25	4750.0
Download	28	Type 2	1.3	164.0	23	3772.0
Download	29	Type 2	2.2	182.0	25	4550.0

**Type 3 Radar Statistical Performance**

	Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
Download	0	Type 3	6.9	324.0	16	5184.0
Download	1	Type 3	8.8	261.0	18	4698.0
Download	2	Type 3	6.3	387.0	16	6192.0
Download	3	Type 3	9.0	234.0	18	4212.0
Download	4	Type 3	7.5	314.0	17	5338.0
Download	5	Type 3	7.1	271.0	16	4336.0
Download	6	Type 3	6.4	430.0	16	6880.0
Download	7	Type 3	6.6	325.0	16	5200.0
Download	8	Type 3	6.4	326.0	16	5216.0
Download	9	Type 3	9.7	420.0	18	7560.0
Download	10	Type 3	6.7	330.0	16	5280.0
Download	11	Type 3	10.0	376.0	18	6768.0
Download	12	Type 3	8.3	443.0	17	7531.0
Download	13	Type 3	9.5	475.0	18	8550.0
Download	14	Type 3	8.4	435.0	17	7395.0
Download	15	Type 3	9.7	407.0	18	7326.0
Download	16	Type 3	6.8	498.0	16	7968.0
Download	17	Type 3	6.1	307.0	16	4912.0
Download	18	Type 3	6.8	461.0	16	7376.0
Download	19	Type 3	8.9	481.0	18	8658.0
Download	20	Type 3	7.0	218.0	16	3488.0
Download	21	Type 3	6.2	205.0	16	3280.0
Download	22	Type 3	8.0	471.0	17	8007.0
Download	23	Type 3	9.9	252.0	18	4536.0
Download	24	Type 3	7.5	207.0	17	3519.0
Download	25	Type 3	9.7	357.0	18	6426.0
Download	26	Type 3	7.2	309.0	16	4944.0
Download	27	Type 3	7.2	334.0	16	5344.0
Download	28	Type 3	6.3	480.0	16	7680.0
Download	29	Type 3	7.2	267.0	16	4272.0



**Type 4 Radar Statistical Performance**

	Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
Download	0	Type 4	13.0	324.0	13	4212.0
Download	1	Type 4	17.4	261.0	15	3915.0
Download	2	Type 4	11.7	387.0	12	4644.0
Download	3	Type 4	17.7	234.0	15	3510.0
Download	4	Type 4	14.4	314.0	13	4082.0
Download	5	Type 4	13.5	271.0	13	3523.0
Download	6	Type 4	12.0	430.0	12	5160.0
Download	7	Type 4	12.4	325.0	12	3900.0
Download	8	Type 4	11.9	326.0	12	3912.0
Download	9	Type 4	19.3	420.0	16	6720.0
Download	10	Type 4	12.6	330.0	12	3960.0
Download	11	Type 4	19.9	376.0	16	6016.0
Download	12	Type 4	16.2	443.0	14	6202.0
Download	13	Type 4	18.8	475.0	16	7600.0
Download	14	Type 4	16.4	435.0	15	6525.0
Download	15	Type 4	19.3	407.0	16	6512.0
Download	16	Type 4	12.9	498.0	13	6474.0
Download	17	Type 4	11.4	307.0	12	3684.0
Download	18	Type 4	12.8	461.0	13	5993.0
Download	19	Type 4	17.5	481.0	15	7215.0
Download	20	Type 4	13.3	218.0	13	2834.0
Download	21	Type 4	11.5	205.0	12	2460.0
Download	22	Type 4	15.5	471.0	14	6594.0
Download	23	Type 4	19.8	252.0	16	4032.0
Download	24	Type 4	14.3	207.0	13	2691.0
Download	25	Type 4	19.3	357.0	16	5712.0
Download	26	Type 4	13.7	309.0	13	4017.0
Download	27	Type 4	13.8	334.0	13	4342.0
Download	28	Type 4	11.6	480.0	12	5760.0
Download	29	Type 4	13.7	267.0	13	3471.0

## Radar Type 5 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	1=Detection 0=No Detection	Trail #	Test Freq. (MHz)	1=Detection 0=No Detection
1	5510	1	16	5497.6	1
2	5510	1	17	5493.2	1
3	5510	0	18	5492	1
4	5510	1	19	5493.2	1
5	5510	1	20	5496.4	1
6	5510	1	21	5526.4	1
7	5510	1	22	5527.6	0
8	5510	1	23	5525.2	0
9	5510	1	24	5522	1
10	5510	1	25	5526	1
11	5492.8	0	26	5522.4	1
12	5498	1	27	5526.4	1
13	5495.6	0	28	5526.4	1
14	5497.2	1	29	5527.6	0
15	5495.6	1	30	5526.4	1
Detection Percentage (%)					80%

Type 5 Radar Waveform_1						
Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
567063.0	61.5	8	1	1556.0	-	-
855806.0	85.2	8	3	1475.0	1075.0	1686.0
1148008.0	53.9	8	1	1948.0	-	-
239973.0	87.3	8	3	1491.0	1460.0	1729.0
530252.0	69.2	8	2	1994.0	1836.0	-
821963.0	64.2	8	1	1494.0	-	-
1112946.0	55.9	8	1	1164.0	-	-
204786.0	58.0	8	1	1621.0	-	-
495603.0	54.9	8	1	1205.0	-	-
784107.0	96.0	8	3	1601.0	1379.0	1642.0

**Type 5 Radar Waveform\_2**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
633321.0	59.3	16	1	1003.0	-	-
98763.0	99.2	16	3	1929.0	1697.0	1872.0
269602.0	78.9	16	2	1689.0	1270.0	-
439590.0	93.4	16	3	1135.0	1519.0	1093.0
610049.0	80.1	16	2	1812.0	1740.0	-
78023.0	95.8	16	3	1053.0	1298.0	1492.0
249278.0	60.9	16	1	1049.0	-	-
420077.0	52.3	16	1	1293.0	-	-
591027.0	60.0	16	1	1215.0	-	-
57090.0	86.2	16	3	1109.0	1238.0	1004.0
228191.0	62.7	16	1	1144.0	-	-
399051.0	53.2	16	1	1252.0	-	-
568596.0	74.9	16	2	1243.0	1678.0	-
36043.0	98.5	16	3	1443.0	1320.0	1746.0
206498.0	68.6	16	2	1759.0	1561.0	-
376220.0	96.1	16	3	1197.0	1620.0	1755.0
548846.0	65.3	16	1	1316.0	-	-

**Type 5 Radar Waveform\_3**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
28661.0	65.4	6	1	1158.0	-	-
351643.0	53.6	6	1	1582.0	-	-
674731.0	64.9	6	1	1392.0	-	-
995427.0	87.3	6	3	1102.0	1869.0	1548.0
1321138.0	66.2	6	1	1058.0	-	-
311865.0	53.4	6	1	1551.0	-	-
634015.0	77.7	6	2	1682.0	1651.0	-
956179.0	77.9	6	2	1903.0	1991.0	-
1281208.0	63.3	6	1	1192.0	-	-

**Type 5 Radar Waveform\_4**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
143639.0	72.4	16	2	1538.0	1255.0	-
314317.0	71.4	16	2	1115.0	1326.0	-
485234.0	59.1	16	1	1992.0	-	-
654981.0	80.1	16	2	1141.0	1891.0	-
122592.0	72.6	16	2	1112.0	1930.0	-
292486.0	93.6	16	3	1454.0	1447.0	1499.0
464459.0	56.3	16	1	1609.0	-	-
633871.0	67.5	16	2	1526.0	1631.0	-
101477.0	69.1	16	2	1960.0	1896.0	-
272001.0	79.1	16	2	1445.0	1739.0	-
443555.0	59.5	16	1	1393.0	-	-
614617.0	58.7	16	1	1163.0	-	-
80407.0	86.0	16	3	1912.0	1444.0	1348.0
251587.0	61.0	16	1	1563.0	-	-
422637.0	54.2	16	1	1180.0	-	-
590308.0	96.4	16	3	1455.0	1717.0	1856.0
59445.0	90.4	16	3	1595.0	1504.0	1784.0

**Type 5 Radar Waveform\_5**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
325736.0	88.0	11	3	1744.0	1897.0	1233.0
568156.0	81.9	11	2	1128.0	1867.0	-
811029.0	58.3	11	1	1680.0	-	-
54868.0	60.3	11	1	1046.0	-	-
296965.0	55.5	11	1	1654.0	-	-
538046.0	68.7	11	2	1940.0	1657.0	-
779731.0	73.1	11	2	1623.0	1941.0	-
24928.0	99.0	11	3	1787.0	1173.0	1977.0
266527.0	90.5	11	3	1458.0	1398.0	1092.0
509534.0	54.3	11	1	1137.0	-	-
748635.0	90.1	11	3	1931.0	1963.0	1436.0
993787.0	58.7	11	1	1397.0	-	-

**Type 5 Radar Waveform\_6**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
258288.0	93.1	9	3	1327.0	1011.0	1997.0
521718.0	95.7	9	3	1078.0	1736.0	1727.0
787256.0	51.2	9	1	1691.0	-	-
1051787.0	65.4	9	1	1317.0	-	-
226170.0	66.7	9	2	1373.0	1312.0	-
490021.0	73.4	9	2	1347.0	1511.0	-
752674.0	89.5	9	3	1225.0	1789.0	1624.0
1015624.0	93.2	9	3	1648.0	1535.0	1995.0
193597.0	79.9	9	2	1354.0	1685.0	-
458170.0	63.6	9	1	1302.0	-	-
721116.0	69.1	9	2	1639.0	1652.0	-

**Type 5 Radar Waveform\_7**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1203235.0	96.9	6	3	1692.0	1096.0	1818.0
197270.0	57.3	6	1	1199.0	-	-
519493.0	79.4	6	2	1906.0	1497.0	-
841309.0	89.5	6	3	1904.0	1580.0	1079.0
1163288.0	86.6	6	3	1899.0	1881.0	1114.0
157445.0	56.6	6	1	1439.0	-	-
480155.0	79.4	6	2	1250.0	1064.0	-
801751.0	92.7	6	3	1633.0	1396.0	1304.0
1126402.0	60.6	6	1	1583.0	-	-

**Type 5 Radar Waveform\_8**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
105644.0	91.0	7	3	1803.0	1170.0	1307.0
395869.0	75.9	7	2	1568.0	1975.0	-
687253.0	65.5	7	1	1441.0	-	-
976217.0	95.9	7	3	1385.0	1044.0	1126.0
69989.0	69.6	7	2	1118.0	1722.0	-
360646.0	53.0	7	1	1817.0	-	-
650257.0	66.9	7	2	1698.0	1933.0	-
942169.0	52.6	7	1	1399.0	-	-
34170.0	86.1	7	3	1892.0	1099.0	1763.0
324424.0	81.2	7	2	1645.0	1745.0	-

**Type 5 Radar Waveform\_9**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
683179.0	82.1	6	2	1290.0	1998.0	-
1004996.0	89.3	6	3	1052.0	1908.0	1335.0
1330551.0	66.2	6	1	1069.0	-	-
321247.0	58.8	6	1	1712.0	-	-
643636.0	76.1	6	2	1748.0	1145.0	-
965374.0	83.5	6	3	1338.0	1596.0	1247.0
1290229.0	58.2	6	1	1607.0	-	-
281012.0	93.3	6	3	1104.0	1571.0	1186.0
603478.0	69.2	6	2	1928.0	1873.0	-

**Type 5 Radar Waveform\_10**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
436688.0	87.6	19	3	1395.0	1874.0	1276.0
591546.0	64.7	19	1	1581.0	-	-
114292.0	53.1	19	1	1861.0	-	-
267000.0	60.4	19	1	1905.0	-	-
419119.0	74.3	19	2	1087.0	1713.0	-
573189.0	62.7	19	1	1071.0	-	-
95489.0	61.4	19	1	1799.0	-	-
248476.0	52.9	19	1	1176.0	-	-
400225.0	76.1	19	2	1807.0	1165.0	-
552508.0	79.2	19	2	1938.0	1232.0	-
76415.0	86.5	19	3	1529.0	1040.0	1359.0
226540.0	92.3	19	3	1587.0	1136.0	1480.0
382505.0	61.0	19	1	1226.0	-	-
535251.0	61.7	19	1	1384.0	-	-
57780.0	79.4	19	2	1221.0	1451.0	-
210327.0	67.8	19	2	1326.0	1295.0	-
362800.0	67.2	19	2	1574.0	1166.0	-
515827.0	80.1	19	2	1088.0	1025.0	-
39036.0	55.4	19	1	1956.0	-	-

**Type 5 Radar Waveform\_11**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
363944.0	95.9	7	3	1605.0	1419.0	1878.0
655909.0	63.7	7	1	1035.0	-	-
946067.0	56.5	7	1	1830.0	-	-
38412.0	86.9	7	3	1415.0	1791.0	1082.0
329059.0	57.1	7	1	1924.0	-	-
618296.0	98.8	7	3	1125.0	1569.0	1810.0
910060.0	81.6	7	2	1061.0	1050.0	-
2694.0	79.8	7	2	1782.0	1360.0	-
293007.0	80.7	7	2	1410.0	1579.0	-
582390.0	98.6	7	3	1794.0	1139.0	1964.0

**Type 5 Radar Waveform\_12**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
437067.0	53.3	20	1	1151.0	-	-
582168.0	56.0	20	1	1294.0	-	-
128388.0	78.3	20	2	1333.0	1259.0	-
273713.0	63.3	20	1	1641.0	-	-
418959.0	60.2	20	1	1462.0	-	-
563963.0	55.0	20	1	1632.0	-	-
110291.0	96.0	20	3	1711.0	1101.0	1131.0
254711.0	87.8	20	3	1222.0	1432.0	1622.0
401104.0	65.4	20	1	1423.0	-	-
543860.0	91.3	20	3	1532.0	1020.0	1521.0
92690.0	83.1	20	2	1470.0	1146.0	-
238073.0	58.1	20	1	1361.0	-	-
383352.0	50.0	20	1	1220.0	-	-
525832.0	90.8	20	3	1572.0	1084.0	1672.0
74839.0	73.4	20	2	1386.0	1264.0	-
218666.0	99.7	20	3	1790.0	1844.0	1868.0
363288.0	86.9	20	3	1656.0	1939.0	1190.0
508943.0	71.0	20	2	1913.0	1352.0	-
56954.0	77.6	20	2	1890.0	1172.0	-
201126.0	86.9	20	3	1813.0	1175.0	1862.0

**Type 5 Radar Waveform\_13**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
461463.0	91.1	14	3	1391.0	1696.0	1936.0
657408.0	58.9	14	1	1211.0	-	-
52336.0	53.3	14	1	1412.0	-	-
246042.0	52.8	14	1	1336.0	-	-
438229.0	97.4	14	3	1280.0	1495.0	1313.0
633073.0	55.5	14	1	1806.0	-	-
28418.0	81.1	14	2	1627.0	1486.0	-
221559.0	77.9	14	2	1747.0	1834.0	-
414130.0	96.1	14	3	1815.0	1331.0	1559.0
609234.0	61.7	14	1	1796.0	-	-
4603.0	92.8	14	3	1590.0	1257.0	1803.0
198044.0	83.0	14	2	1292.0	1171.0	-
391206.0	80.8	14	2	1715.0	1289.0	-
585767.0	54.4	14	1	1281.0	-	-
777534.0	72.8	14	2	1945.0	1330.0	-

**Type 5 Radar Waveform\_14**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
137226.0	73.2	18	2	1982.0	1403.0	-
290320.0	58.1	18	1	1785.0	-	-
442380.0	79.0	18	2	1629.0	1130.0	-
596246.0	50.8	18	1	1324.0	-	-
118826.0	56.6	18	1	1427.0	-	-
270367.0	83.4	18	3	1855.0	1209.0	1362.0
423396.0	80.0	18	2	1067.0	1986.0	-
577432.0	51.7	18	1	1308.0	-	-
99489.0	88.9	18	3	1618.0	1630.0	1417.0
252178.0	72.3	18	2	1332.0	1732.0	-
403609.0	87.8	18	3	1203.0	1531.0	1888.0
558066.0	63.7	18	1	1914.0	-	-
81114.0	65.7	18	1	1918.0	-	-
233869.0	63.4	18	1	1804.0	-	-
386632.0	57.5	18	1	1767.0	-	-
539647.0	59.8	18	1	1456.0	-	-
62328.0	60.5	18	1	1665.0	-	-
215158.0	52.2	18	1	1502.0	-	-
365961.0	93.9	18	3	1894.0	1452.0	1564.0

**Type 5 Radar Waveform\_15**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
660188.0	57.5	14	1	1266.0	-	-
54871.0	94.5	14	3	1832.0	1950.0	1828.0
248953.0	52.6	14	1	1062.0	-	-
441532.0	75.5	14	2	1901.0	1305.0	-
635776.0	65.9	14	1	1955.0	-	-
31298.0	54.7	14	1	1585.0	-	-
224605.0	73.9	14	2	1466.0	1299.0	-
418045.0	68.1	14	2	1453.0	1150.0	-
610614.0	91.8	14	3	1241.0	1066.0	1372.0
7444.0	53.6	14	1	1625.0	-	-
200264.0	98.6	14	3	1478.0	1671.0	1699.0
394995.0	50.1	14	1	1042.0	-	-
587025.0	77.4	14	2	1737.0	1669.0	-
778438.0	95.7	14	3	1431.0	1840.0	1958.0
176955.0	68.0	14	2	1826.0	1013.0	-

**Type 5 Radar Waveform\_16**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
292627.0	50.2	19	1	1613.0	-	-
443359.0	91.5	19	3	1477.0	1677.0	1366.0
597997.0	59.9	19	1	1827.0	-	-
120801.0	70.1	19	2	1653.0	1106.0	-
273102.0	70.9	19	2	1980.0	1256.0	-
426641.0	53.4	19	1	1544.0	-	-
579809.0	61.0	19	1	1147.0	-	-
102267.0	57.1	19	1	1207.0	-	-
255045.0	64.5	19	1	1472.0	-	-
407192.0	80.6	19	2	1440.0	1073.0	-
561008.0	59.6	19	1	1110.0	-	-
82931.0	91.8	19	3	1823.0	1416.0	1777.0
236316.0	65.4	19	1	1217.0	-	-
388799.0	64.4	19	1	1865.0	-	-
539016.0	88.6	19	3	1461.0	1953.0	1368.0
64583.0	51.9	19	1	1409.0	-	-
217028.0	82.2	19	2	1140.0	1401.0	-
369622.0	80.7	19	2	1469.0	1016.0	-
520639.0	87.0	19	3	1311.0	1706.0	1345.0

**Type 5 Radar Waveform\_17**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
86830.0	96.9	8	3	1946.0	1160.0	1043.0
377358.0	78.4	8	2	1422.0	1153.0	-
667392.0	70.5	8	2	1380.0	1876.0	-
958085.0	82.7	8	2	1237.0	1463.0	-
51236.0	63.0	8	1	1077.0	-	-
341382.0	96.2	8	3	1007.0	1059.0	1224.0
632122.0	82.7	8	2	1057.0	1285.0	-
923350.0	65.3	8	1	1358.0	-	-
15376.0	88.2	8	3	1300.0	1770.0	1405.0
305435.0	98.2	8	3	1309.0	1240.0	1509.0

**Type 5 Radar Waveform\_18**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
744253.0	90.3	5	3	1695.0	1619.0	1973.0
1108469.0	72.2	5	2	1340.0	1650.0	-
1472871.0	60.3	5	1	1638.0	-	-
337652.0	68.0	5	2	1428.0	1343.0	-
699713.0	97.8	5	3	1512.0	1850.0	1683.0
1064634.0	63.1	5	1	1742.0	-	-
1428102.0	66.0	5	1	1643.0	-	-
292738.0	100.0	5	3	1010.0	1628.0	1080.0

**Type 5 Radar Waveform\_19**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
523670.0	90.5	8	3	1390.0	1724.0	1772.0
814845.0	81.4	8	2	1637.0	1306.0	-
1103485.0	90.4	8	3	1518.0	1974.0	1274.0
198182.0	96.5	8	3	1246.0	1421.0	1805.0
487968.0	87.4	8	3	1537.0	1510.0	1833.0
778160.0	88.2	8	3	1668.0	1430.0	1265.0
1067865.0	95.0	8	3	1821.0	1811.0	1038.0
162874.0	56.2	8	1	1473.0	-	-
453395.0	62.9	8	1	1896.0	-	-
744377.0	58.5	8	1	1245.0	-	-



**Type 5 Radar Waveform\_20**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
608582.0	53.6	16	1	1089.0	-	-
74730.0	53.2	16	1	1021.0	-	-
245569.0	51.7	16	1	1344.0	-	-
416380.0	66.3	16	1	1448.0	-	-
585561.0	69.4	16	2	1640.0	1808.0	-
53388.0	90.5	16	3	1515.0	1468.0	1779.0
223527.0	98.8	16	3	1506.0	1887.0	1072.0
393875.0	89.7	16	3	1184.0	1070.0	1797.0
565099.0	79.8	16	2	1183.0	1614.0	-
32605.0	58.8	16	1	1254.0	-	-
202697.0	96.9	16	3	1181.0	1481.0	1370.0
373137.0	73.9	16	2	1661.0	1959.0	-
543001.0	88.2	16	3	1187.0	1048.0	1996.0
11506.0	88.1	16	3	1500.0	1549.0	1188.0
181931.0	72.9	16	2	1752.0	1505.0	-
353418.0	58.9	16	1	1107.0	-	-
522983.0	74.2	16	2	1414.0	1527.0	-

**Type 5 Radar Waveform\_21**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1074315.0	58.3	9	1	1919.0	-	-
248759.0	99.4	9	3	1517.0	1846.0	1523.0
513022.0	73.8	9	2	1325.0	1720.0	-
776937.0	67.6	9	2	1479.0	1464.0	-
1042535.0	51.2	9	1	1132.0	-	-
216639.0	72.5	9	2	1809.0	1450.0	-
481114.0	51.9	9	1	1707.0	-	-
743639.0	91.8	9	3	1845.0	1105.0	1155.0
1006625.0	99.4	9	3	1420.0	1363.0	1968.0
184137.0	96.6	9	3	1196.0	1103.0	1014.0
448853.0	50.4	9	1	1032.0	-	-

**Type 5 Radar Waveform\_22**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
978640.0	91.1	6	3	1895.0	1533.0	1026.0
1343269.0	82.4	6	2	1116.0	1206.0	-
208422.0	87.8	6	3	1702.0	1957.0	1550.0
572488.0	56.7	6	1	1195.0	-	-
934452.0	83.3	6	2	1927.0	1741.0	-
1298310.0	74.1	6	2	1216.0	1356.0	-
164184.0	61.7	6	1	1389.0	-	-
526571.0	85.0	6	3	1524.0	1449.0	1465.0

**Type 5 Radar Waveform\_23**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
507320.0	96.4	12	3	1005.0	1934.0	1022.0
714951.0	74.0	12	2	1708.0	1407.0	-
68211.0	52.8	12	1	1120.0	-	-
275133.0	69.9	12	2	1778.0	1484.0	-
482268.0	69.3	12	2	1917.0	1271.0	-
691131.0	58.1	12	1	1017.0	-	-
42481.0	83.4	12	3	1098.0	1843.0	1318.0
250124.0	57.1	12	1	1552.0	-	-
457509.0	53.0	12	1	1781.0	-	-
665254.0	66.5	12	1	1404.0	-	-
17006.0	93.2	12	3	1758.0	1288.0	1037.0
224647.0	52.3	12	1	1236.0	-	-
431353.0	73.6	12	2	1095.0	1880.0	-
638134.0	78.4	12	2	1838.0	1647.0	-

**Type 5 Radar Waveform\_24**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
592261.0	63.9	20	1	1793.0	-	-
138400.0	66.6	20	3	1262.0	1825.0	1882.0
284367.0	56.9	20	1	1488.0	-	-
427221.0	69.1	20	3	1743.0	1705.0	1251.0
572204.0	90.9	20	3	1761.0	1012.0	1297.0
121422.0	52.3	20	1	1031.0	-	-
266077.0	80.7	20	2	1408.0	1001.0	-
409453.0	99.8	20	3	1570.0	1337.0	1768.0
555701.0	74.6	20	2	1002.0	1670.0	-
103223.0	70.1	20	2	1279.0	1516.0	-
247258.0	94.0	20	3	1738.0	1937.0	1080.0
392265.0	98.3	20	3	1081.0	1323.0	1364.0
536225.0	98.6	20	3	1555.0	1433.0	1496.0
65299.0	97.4	20	3	1111.0	1119.0	1148.0
230140.0	71.1	20	2	1573.0	1438.0	-
374399.0	90.1	20	3	1534.0	1286.0	1034.0
517940.0	90.6	20	3	1889.0	1575.0	1588.0
67686.0	64.0	20	1	1508.0	-	-
212302.0	76.4	20	2	1169.0	1849.0	-
355953.0	87.9	20	3	1658.0	1273.0	1987.0

**Type 5 Radar Waveform\_25**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
839396.0	62.5	10	1	1539.0	-	-
83101.0	50.2	10	1	1437.0	-	-
325345.0	55.5	10	1	1249.0	-	-
566701.0	79.4	10	2	1626.0	1157.0	-
809307.0	54.5	10	1	1859.0	-	-
53279.0	59.5	10	1	1261.0	-	-
294877.0	67.9	10	2	1814.0	1567.0	-
537347.0	65.3	10	1	1972.0	-	-
776846.0	99.0	10	3	1883.0	1837.0	1522.0
23402.0	75.2	10	2	1585.0	1369.0	-
265636.0	56.1	10	1	1381.0	-	-
506297.0	94.2	10	3	1801.0	1086.0	1513.0

**Type 5 Radar Waveform\_26**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
471939.0	76.9	19	2	1753.0	1467.0	-
626325.0	62.6	19	1	1218.0	-	-
148327.0	68.5	19	2	1871.0	1545.0	-
301825.0	51.1	19	1	1018.0	-	-
452093.0	99.9	19	3	1646.0	1528.0	1536.0
604395.0	94.3	19	3	1681.0	1540.0	1212.0
129843.0	83.3	19	2	1023.0	1029.0	-
282892.0	59.3	19	1	1229.0	-	-
435527.0	54.3	19	1	1584.0	-	-
584423.0	96.7	19	3	1976.0	1979.0	1802.0
110423.0	99.4	19	3	1863.0	1877.0	1788.0
263403.0	82.7	19	2	1008.0	1792.0	-
415731.0	76.0	19	2	1915.0	1143.0	-
568114.0	71.0	19	2	1875.0	1242.0	-
92293.0	59.5	19	1	1615.0	-	-
243898.0	86.0	19	3	1673.0	1248.0	1730.0
395869.0	86.1	19	3	1670.0	1341.0	1566.0
551013.0	62.9	19	1	1202.0	-	-
73347.0	75.9	19	2	1015.0	1688.0	-

**Type 5 Radar Waveform\_27**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
390549.0	79.1	9	2	1820.0	1703.0	-
654444.0	75.9	9	2	1983.0	1258.0	-
917021.0	85.7	9	3	1189.0	1635.0	1858.0
94484.0	65.8	9	1	1839.0	-	-
358818.0	63.6	9	1	1234.0	-	-
622056.0	81.1	9	2	1056.0	2000.0	-
886278.0	77.6	9	2	1501.0	1085.0	-
61804.0	84.6	9	3	1560.0	1091.0	1749.0
325776.0	81.4	9	2	1133.0	1733.0	-
588835.0	84.5	9	3	1925.0	1108.0	1357.0
854568.0	65.3	9	1	1562.0	-	-

**Type 5 Radar Waveform\_28**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
26976.0	50.8	9	1	1179.0	-	-
268120.0	99.4	9	3	1944.0	1679.0	1644.0
511466.0	63.9	9	1	1182.0	-	-
751029.0	99.8	9	3	1434.0	1353.0	1949.0
993342.0	71.3	9	2	1910.0	1893.0	-
238537.0	85.9	9	3	1663.0	1589.0	1457.0
480801.0	78.9	9	2	1076.0	1819.0	-
722656.0	69.9	9	2	1660.0	1200.0	-
962759.0	90.3	9	3	1971.0	1152.0	1530.0
208737.0	96.4	9	3	1965.0	1798.0	1263.0
451192.0	80.8	9	2	1117.0	1383.0	-
693136.0	67.1	9	2	1030.0	1442.0	-

Type 5 Radar Waveform_29						
Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1401780.0	83.6	6	3	1350.0	1435.0	1800.0
269545.0	65.9	6	1	1835.0	-	-
633040.0	50.9	6	1	1498.0	-	-
995684.0	72.8	6	2	1586.0	1100.0	-
1359452.0	53.3	6	1	1999.0	-	-
224516.0	83.5	6	3	1159.0	1485.0	1006.0
588171.0	50.0	6	1	1756.0	-	-
950604.0	81.9	6	2	1943.0	1291.0	-
Type 5 Radar Waveform_30						
Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
955140.0	79.3	9	2	1507.0	1094.0	-
130586.0	86.0	9	3	1027.0	1244.0	1947.0
394146.0	99.4	9	3	1235.0	1365.0	1610.0
658172.0	77.1	9	2	1676.0	1762.0	-
921967.0	68.2	9	2	1520.0	1860.0	-
98091.0	91.3	9	3	1028.0	1709.0	1824.0
361850.0	96.9	9	3	1342.0	1168.0	1193.0
626664.0	54.8	9	1	1735.0	-	-
889978.0	70.0	9	2	1068.0	1700.0	-
65690.0	72.3	9	2	1726.0	1951.0	-
329940.0	59.6	9	1	1822.0	-	-

## Radar Type 6 - Radar Statistical Performance

Trail #	1=Detection 0=No Detection	Trail #	1=Detection 0=No Detection
1	1	16	1
2	1	17	1
3	1	18	1
4	1	19	1
5	1	20	1
6	1	21	1
7	1	22	1
8	1	23	1
9	1	24	1
10	1	25	1
11	1	26	1
12	1	27	1
13	1	28	1
14	1	29	1
15	1	30	1
Detection Percentage (%)			100%

Type 6 Radar Waveform_1					
Frequency List (MHz)	0	1	2	3	4
0	5419	5673	5543	5691	5506
5	5293	5598	5450	5263	5583
10	5640	5319	5512	5404	5284
15	5381	5536	5442	5563	5651
20	5584	5403	5603	5670	5362
25	5297	5562	5578	5347	5711
30	5252	5281	5674	5495	5424
35	5552	5329	5662	5661	5312
40	5718	5386	5477	5357	5318
45	5635	5396	5338	5348	5456
50	5356	5330	5579	5266	5320
55	5695	5556	5553	5367	5353
60	5374	5581	5706	5370	5267
65	5705	5457	5302	5696	5658
70	5545	5273	5467	5391	5367
75	5416	5587	5346	5505	5693
80	5272	5408	5482	5359	5333
85	5452	5698	5283	5530	5473
90	5295	5618	5513	5606	5393
95	5582	5503	5483	5397	5340

**Type 6 Radar Waveform\_2**

Frequency List (MHz)	0	1	2	3	4
0	5674	5437	5479	5377	5348
5	5335	5620	5525	5426	5315
10	5571	5583	5553	5502	5305
15	5372	5663	5545	5608	5368
20	5592	5569	5544	5662	5563
25	5511	5306	5548	5270	5294
30	5267	5631	5710	5576	5468
35	5278	5554	5465	5632	5700
40	5657	5324	5597	5564	5376
45	5421	5406	5509	5646	5610
50	5506	5630	5452	5618	5639
55	5292	5510	5503	5271	5651
60	5677	5665	5280	5251	5635
65	5338	5393	5461	5714	5259
70	5567	5412	5367	5346	5385
75	5707	5392	5486	5373	5382
80	5472	5330	5471	5333	5318
85	5626	5501	5303	5671	5460
90	5721	5450	5488	5405	5599
95	5558	5295	5263	5443	5398

**Type 6 Radar Waveform\_3**

Frequency List (MHz)	0	1	2	3	4
0	5454	5676	5415	5441	5568
5	5474	5545	5600	5589	5522
10	5502	5372	5594	5697	5326
15	5460	5315	5648	5653	5560
20	5260	5582	5276	5308	5451
25	5363	5509	5652	5304	5336
30	5631	5588	5353	5350	5570
35	5510	5369	5715	5643	5539
40	5265	5262	5362	5312	5493
45	5356	5504	5464	5562	5533
50	5486	5682	5681	5541	5480
55	5361	5383	5295	5535	5436
60	5596	5491	5694	5481	5675
65	5671	5645	5285	5264	5311
70	5720	5639	5721	5305	5257
75	5255	5564	5625	5395	5253
80	5494	5476	5371	5711	5708
85	5604	5591	5455	5551	5252
90	5484	5273	5514	5713	5613
95	5548	5668	5620	5546	5572

**Type 6 Radar Waveform\_4**

Frequency List (MHz)	0	1	2	3	4
0	5709	5440	5351	5602	5410
5	5516	5567	5675	5277	5336
10	5636	5635	5417	5347	5548
15	5442	5276	5601	5511	5329
20	5523	5268	5281	5717	5690
25	5712	5338	5475	5520	5545
30	5568	5502	5390	5649	5557
35	5621	5393	5378	5348	5505
40	5309	5325	5587	5425	5615
45	5323	5362	5383	5257	5630
50	5264	5430	5668	5418	5551
55	5677	5266	5664	5541	5341
60	5414	5640	5682	5624	5707
65	5380	5555	5542	5706	5670
70	5488	5697	5701	5375	5581
75	5402	5509	5658	5694	5473
80	5566	5614	5550	5702	5459
85	5506	5324	5689	5315	5258
90	5421	5623	5255	5532	5599
95	5319	5667	5696	5501	5672

## Type 6 Radar Waveform\_5

Frequency List (MHz)	0	1	2	3	4
0	5392	5679	5287	5288	5630
5	5558	5492	5275	5343	5267
10	5425	5676	5612	5368	5636
15	5472	5379	5646	5469	5519
20	5495	5464	5357	5254	5605
25	5639	5385	5372	5517	5506
30	5502	5308	5276	5685	5313
35	5648	5417	5546	5471	5314
40	5431	5613	5270	5403	5316
45	5670	5483	5668	5713	5559
50	5719	5465	5277	5381	5266
55	5496	5615	5318	5291	5583
60	5715	5586	5505	5573	5687
65	5447	5723	5552	5673	5337
70	5698	5724	5526	5654	5290
75	5347	5282	5470	5286	5614
80	5627	5322	5424	5460	5572
85	5509	5460	5264	5455	5415
90	5635	5272	5561	5481	5433
95	5418	5251	5459	5315	5705

## Type 6 Radar Waveform\_6

Frequency List (MHz)	0	1	2	3	4
0	5647	5443	5698	5449	5472
5	5697	5514	5350	5506	5290
10	5576	5689	5339	5332	5389
15	5627	5599	5385	5691	5661
20	5527	5564	5502	5349	5702
25	5396	5491	5546	5586	5406
30	5559	5395	5459	5523	5428
35	5408	5452	5264	5310	5321
40	5482	5628	5611	5454	5510
45	5400	5561	5296	5278	5541
50	5721	5475	5492	5260	5359
55	5333	5288	5696	5326	5456
60	5693	5447	5528	5577	5629
65	5706	5522	5682	5422	5717
70	5526	5624	5300	5298	5649
75	5657	5542	5615	5295	5507
80	5431	5414	5442	5370	5481
85	5517	5331	5590	5292	5345
90	5707	5645	5270	5392	5297
95	5269	5289	5303	5597	5460

## Type 6 Radar Waveform\_7

Frequency List (MHz)	0	1	2	3	4
0	5427	5682	5634	5610	5692
5	5264	5439	5425	5669	5497
10	5507	5575	5380	5430	5410
15	5715	5251	5488	5261	5475
20	5438	5255	5443	5675	5284
25	5440	5274	5690	5698	5416
30	5641	5677	5703	5494	5355
35	5581	5474	5396	5467	5694
40	5392	5653	5397	5490	5654
45	5361	5502	5362	5368	5436
50	5519	5586	5543	5660	5280
55	5646	5512	5557	5576	5621
60	5473	5409	5464	5529	5471
65	5254	5329	5318	5286	5301
70	5510	5625	5616	5511	5260
75	5683	5263	5327	5578	5505
80	5367	5676	5420	5648	5650
85	5706	5257	5465	5593	5527
90	5335	5373	5426	5378	5403
95	5358	5357	5483	5535	5382

**Type 6 Radar Waveform\_8**

Frequency List (MHz)	0	1	2	3	4
0	5682	5446	5570	5296	5534
5	5306	5461	5500	5357	5326
10	5438	5364	5421	5625	5431
15	5328	5378	5591	5684	5667
20	5324	5384	5430	5648	5647
25	5292	5477	5319	5474	5265
30	5270	5373	5381	5354	5426
35	5633	5377	5627	5310	5302
40	5330	5418	5394	5322	5634
45	5444	5560	5255	5719	5515
50	5608	5409	5487	5612	5361
55	5331	5528	5311	5716	5290
60	5521	5420	5657	5464	5404
65	5607	5390	5272	5304	5262
70	5504	5575	5363	5283	5581
75	5469	5363	5276	5583	5267
80	5568	5493	5490	5613	5600
85	5419	5269	5250	5379	5460
90	5439	5413	5662	5321	5586
95	5355	5475	5594	5703	5298

**Type 6 Radar Waveform\_9**

Frequency List (MHz)	0	1	2	3	4
0	5365	5685	5603	5457	5279
5	5348	5483	5575	5520	5533
10	5272	5628	5462	5345	5452
15	5416	5505	5694	5254	5384
20	5454	5490	5325	5519	5621
25	5438	5619	5680	5423	5508
30	5307	5634	5330	5596	5721
35	5297	5270	5305	5321	5620
40	5482	5268	5658	5391	5251
45	5614	5527	5618	5308	5514
50	5595	5691	5512	5697	5610
55	5334	5561	5566	5528	5402
60	5262	5476	5460	5548	5591
65	5564	5553	5369	5693	5296
70	5674	5410	5559	5355	5404
75	5586	5480	5534	5352	5403
80	5627	5450	5615	5386	5364
85	5431	5631	5361	5688	5323
90	5429	5673	5518	5565	5470
95	5517	5545	5665	5385	5397

**Type 6 Radar Waveform\_10**

Frequency List (MHz)	0	1	2	3	4
0	5620	5449	5539	5618	5499
5	5487	5408	5650	5586	5265
10	5678	5417	5503	5540	5473
15	5407	5535	5322	5299	5576
20	5365	5559	5363	5511	5594
25	5326	5568	5311	5624	5542
30	5446	5523	5287	5336	5377
35	5444	5436	5250	5541	5555
40	5710	5558	5565	5681	5423
45	5485	5655	5610	5579	5361
50	5304	5374	5392	5563	5433
55	5278	5274	5520	5644	5347
60	5373	5391	5641	5405	5477
65	5514	5510	5279	5318	5632
70	5506	5566	5591	5631	5341
75	5435	5456	5493	5699	5295
80	5431	5496	5496	5316	5358
85	5323	5271	5636	5613	5424
90	5290	5268	5355	5581	5608
95	5454	5630	5526	5657	5317



**Type 6 Radar Waveform\_11**

Frequency List (MHz)	0	1	2	3	4
0	5400	5688	5475	5682	5341
5	5529	5430	5250	5274	5589
10	5609	5681	5544	5260	5494
15	5495	5662	5328	5344	5293
20	5373	5304	5600	5567	5592
25	5420	5514	5253	5576	5488
30	5509	5719	5454	5264	5478
35	5337	5708	5624	5395	5648
40	5619	5566	5482	5487	5574
45	5693	5637	5414	5666	5568
50	5614	5497	5256	5462	5474
55	5359	5641	5520	5331	5350
60	5309	5340	5456	5577	5267
65	5668	5338	5361	5394	5325
70	5327	5507	5284	5432	5355
75	5643	5412	5644	5401	5379
80	5603	5701	5588	5696	5330
85	5301	5538	5563	5368	5463
90	5620	5471	5578	5711	5521
95	5636	5571	5663	5280	5369

**Type 6 Radar Waveform\_12**

Frequency List (MHz)	0	1	2	3	4
0	5655	5549	5411	5368	5561
5	5571	5355	5325	5437	5301
10	5443	5567	5585	5358	5515
15	5583	5314	5431	5292	5485
20	5381	5319	5720	5592	5540
25	5480	5369	5717	5357	5610
30	5530	5398	5676	5669	5303
35	5462	5617	5432	5608	5386
40	5635	5709	5256	5557	5331
45	5479	5416	5554	5695	5467
50	5456	5601	5269	5665	5586
55	5544	5553	5428	5460	5315
60	5649	5496	5392	5616	5263
65	5402	5691	5607	5548	5631
70	5672	5397	5410	5510	5511
75	5408	5637	5288	5484	5393
80	5421	5619	5657	5351	5442
85	5255	5420	5604	5527	5659
90	5522	5266	5429	5311	5286
95	5685	5500	5345	5254	5633

**Type 6 Radar Waveform\_13**

Frequency List (MHz)	0	1	2	3	4
0	5435	5313	5347	5529	5403
5	5613	5377	5400	5600	5508
10	5374	5356	5626	5553	5536
15	5671	5441	5534	5337	5677
20	5292	5485	5283	5681	5513
25	5271	5696	5445	5461	5644
30	5572	5384	5633	5409	5455
35	5282	5281	5523	5501	5636
40	5549	5548	5436	5495	5571
45	5476	5723	5437	5656	5423
50	5721	5380	5716	5675	5280
55	5391	5266	5382	5264	5657
60	5664	5661	5448	5564	5504
65	5640	5643	5475	5566	5396
70	5610	5360	5273	5509	5311
75	5530	5471	5576	5254	5438
80	5515	5505	5252	5615	5604
85	5369	5622	5617	5609	5480
90	5559	5581	5375	5506	5339
95	5605	5602	5688	5679	5317

**Type 6 Radar Waveform\_14**

Frequency List (MHz)	0	1	2	3	4
0	5593	5552	5283	5690	5623
5	5277	5302	5475	5666	5337
10	5305	5620	5289	5273	5557
15	5662	5568	5637	5382	5394
20	5300	5651	5699	5673	5486
25	5634	5548	5648	5678	5711
30	5590	5624	5704	5577	5323
35	5614	5297	5314	5463	5484
40	5519	5336	5473	5652	5417
45	5467	5714	5476	5608	5256
50	5621	5292	5578	5335	5454
55	5635	5351	5282	5280	5390
60	5391	5327	5686	5679	5318
65	5278	5638	5613	5684	5263
70	5707	5478	5431	5452	5353
75	5267	5694	5582	5665	5724
80	5507	5308	5682	5334	5574
85	5434	5332	5304	5540	5512
90	5373	5487	5375	5619	5268
95	5285	5379	5254	5312	5376

**Type 6 Radar Waveform\_15**

Frequency List (MHz)	0	1	2	3	4
0	5373	5316	5694	5376	5465
5	5319	5324	5550	5354	5544
10	5614	5409	5330	5468	5578
15	5275	5598	5265	5427	5683
20	5308	5720	5640	5287	5459
25	5522	5497	5279	5291	5615
30	5278	5637	5547	5267	5381
35	5300	5462	5327	5568	5467
40	5474	5323	5602	5274	5479
45	5567	5581	5397	5297	5529
50	5398	5607	5322	5343	5475
55	5401	5657	5642	5290	5644
60	5295	5606	5464	5516	5702
65	5684	5313	5337	5528	5635
70	5618	5422	5685	5710	5368
75	5713	5533	5714	5666	5350
80	5551	5719	5433	5605	5377
85	5271	5253	5721	5530	5410
90	5625	5645	5429	5442	5485
95	5483	5502	5705	5518	5310

**Type 6 Radar Waveform\_16**

Frequency List (MHz)	0	1	2	3	4
0	5628	5555	5630	5537	5685
5	5361	5724	5625	5517	5276
10	5545	5673	5371	5663	5599
15	5363	5250	5271	5375	5400
20	5694	5411	5678	5279	5432
25	5313	5349	5482	5395	5649
30	5320	5623	5504	5595	5601
35	5418	5461	5717	5388	5637
40	5307	5687	5719	5564	5413
45	5377	5633	5258	5582	5265
50	5483	5498	5394	5699	5355
55	5262	5492	5577	5593	5681
60	5269	5516	5614	5380	5351
65	5584	5654	5632	5480	5404
70	5451	5716	5382	5690	5319
75	5671	5387	5414	5390	5256
80	5435	5316	5718	5410	5467
85	5705	5621	5407	5439	5322
90	5344	5629	5496	5275	5378
95	5253	5486	5715	5460	5708

**Type 6 Radar Waveform\_17**

Frequency List (MHz)	0	1	2	3	4
0	5408	5319	5566	5698	5527
5	5403	5271	5700	5680	5580
10	5379	5559	5412	5286	5620
15	5451	5377	5374	5420	5592
20	5702	5480	5619	5368	5405
25	5876	5298	5685	5499	5683
30	5459	5512	5461	5697	5307
35	5318	5265	5509	5257	5395
40	5302	5476	5390	5625	5484
45	5581	5342	5357	5716	5316
50	5635	5550	5262	5674	5445
55	5653	5425	5448	5543	5673
60	5452	5311	5722	5371	5689
65	5348	5440	5326	5552	5533
70	5593	5464	5275	5540	5437
75	5719	5609	5666	5584	5694
80	5530	5634	5500	5599	5618
85	5542	5313	5406	5666	5338
90	5490	5504	5520	5560	5627
95	5378	5511	5605	5292	5433

**Type 6 Radar Waveform\_18**

Frequency List (MHz)	0	1	2	3	4
0	5566	5558	5502	5287	5272
5	5542	5671	5300	5271	5312
10	5310	5348	5453	5481	5641
15	5442	5504	5477	5465	5309
20	5710	5646	5560	5360	5378
25	5467	5625	5413	5603	5717
30	5501	5401	5418	5437	5556
35	5613	5307	5600	5528	5548
40	5313	5315	5473	5563	5627
45	5649	5337	5324	5374	5688
50	5375	5496	5267	5723	5392
55	5256	5642	5605	5422	5376
60	5536	5634	5655	5363	5482
65	5629	5674	5343	5645	5423
70	5344	5458	5543	5635	5339
75	5576	5411	5610	5293	5666
80	5539	5615	5262	5691	5253
85	5433	5715	5444	5277	5340
90	5628	5633	5296	5714	5488
95	5318	5379	5673	5251	5659

**Type 6 Radar Waveform\_19**

Frequency List (MHz)	0	1	2	3	4
0	5346	5322	5438	5448	5589
5	5584	5693	5375	5434	5519
10	5716	5612	5494	5676	5662
15	5530	5631	5580	5413	5501
20	5621	5715	5598	5449	5351
25	5355	5477	5616	5329	5276
30	5543	5387	5555	5708	5336
35	5446	5691	5324	5323	5702
40	5251	5558	5392	5578	5317
45	5407	5335	5266	5489	5551
50	5547	5356	5546	5714	5347
55	5581	5357	5424	5393	5408
60	5701	5579	5487	5664	5576
65	5431	5665	5506	5437	5717
70	5409	5307	5618	5502	5507
75	5459	5719	5566	5623	5549
80	5602	5457	5565	5625	5583
85	5398	5525	5538	5318	5639
90	5349	5653	5326	5302	5277
95	5294	5279	5575	5690	5496

**Type 6 Radar Waveform\_20**

Frequency List (MHz)	0	1	2	3	4
0	5601	5561	5374	5609	5334
5	5626	5618	5450	5597	5348
10	5550	5401	5535	5396	5683
15	5661	5458	5693	5629	5406
20	5539	5441	5421	5621	5426
25	5722	5433	5310	5682	5278
30	5332	5295	5482	5631	5585
35	5404	5692	5476	5616	5565
40	5261	5439	5632	5649	5507
45	5675	5490	5393	5697	5589
50	5365	5252	5598	5542	5369
55	5658	5438	5547	5364	5537
60	5391	5416	5587	5302	5380
65	5604	5716	5329	5424	5411
70	5492	5447	5497	5461	5579
75	5290	5338	5343	5258	5330
80	5519	5665	5652	5594	5504
85	5720	5548	5449	5298	5358
90	5483	5267	5286	5360	5440
95	5650	5534	5397	5647	5288

**Type 6 Radar Waveform\_21**

Frequency List (MHz)	0	1	2	3	4
0	5381	5325	5310	5295	5651
5	5668	5640	5525	5285	5555
10	5481	5665	5576	5591	5704
15	5706	5313	5689	5503	5410
20	5637	5475	5480	5530	5394
25	5509	5278	5450	5537	5344
30	5724	5289	5510	5634	5451
35	5627	5495	5488	5629	5404
40	5377	5397	5646	5339	5655
45	5573	5275	5379	5619	5428
50	5649	5631	5570	5505	5723
55	5392	5262	5440	5713	5668
60	5556	5566	5413	5682	5600
65	5329	5548	5599	5605	5483
70	5478	5383	5473	5420	5445
75	5699	5433	5319	5595	5368
80	5683	5350	5606	5372	5497
85	5346	5714	5437	5416	5403
90	5546	5648	5273	5320	5469
95	5457	5653	5367	5467	5500

**Type 6 Radar Waveform\_22**

Frequency List (MHz)	0	1	2	3	4
0	5636	5564	5721	5456	5396
5	5332	5565	5600	5351	5287
10	5412	5551	5714	5689	5250
15	5697	5440	5317	5548	5602
20	5641	5518	5522	5367	5397
25	5702	5653	5378	5291	5626
30	5408	5649	5586	5284	5404
35	5541	5718	5427	5693	5540
40	5643	5268	5635	5656	5509
45	5328	5266	5495	5604	5700
50	5720	5393	5449	5436	5346
55	5452	5259	5684	5320	5511
60	5555	5628	5326	5278	5676
65	5283	5394	5652	5464	5550
70	5707	5379	5722	5479	5372
75	5381	5275	5413	5506	5664
80	5497	5285	5299	5629	5454
85	5376	5338	5279	5257	5580
90	5481	5474	5708	5446	5395
95	5665	5467	5712	5314	5385

**Type 6 Radar Waveform\_23**

Frequency List (MHz)	0	1	2	3	4
0	5319	5328	5657	5617	5713
5	5374	5587	5675	5514	5494
10	5721	5340	5280	5409	5271
15	5310	5567	5420	5496	5416
20	5556	5710	5459	5611	5663
25	5554	5381	5367	5412	5430
30	5515	5678	5368	5560	5469
35	5677	5652	5557	5455	5654
40	5607	5631	5305	5640	5575
45	5615	5264	5470	5531	5371
50	5276	5334	5691	5296	5624
55	5300	5545	5456	5655	5449
60	5411	5553	5387	5637	5671
65	5702	5590	5286	5686	5724
70	5450	5425	5338	5622	5378
75	5491	5720	5439	5476	5503
80	5384	5400	5602	5262	5408
85	5574	5285	5291	5462	5288
90	5335	5344	5277	5609	5388
95	5562	5309	5606	5436	5263

**Type 6 Radar Waveform\_24**

Frequency List (MHz)	0	1	2	3	4
0	5574	5567	5593	5303	5458
5	5416	5512	5275	5677	5323
10	5652	5604	5321	5292	5398
15	5694	5523	5541	5608	5564
20	5401	5400	5603	5313	5551
25	5406	5584	5471	5446	5472
30	5501	5635	5583	5334	5667
35	5569	5293	5448	5710	5369
40	5493	5690	5545	5637	5504
45	5595	5347	5528	5434	5418
50	5722	5481	5327	5520	5514
55	5715	5337	5254	5260	5626
60	5576	5496	5316	5463	5617
65	5350	5651	5325	5556	5489
70	5533	5653	5405	5297	5633
75	5487	5290	5359	5304	5601
80	5636	5500	5579	5444	5322
85	5441	5689	5459	5718	5394
90	5668	5291	5703	5344	5602
95	5508	5343	5339	5256	5712

**Type 6 Radar Waveform\_25**

Frequency List (MHz)	0	1	2	3	4
0	5354	5331	5529	5464	5300
5	5458	5534	5350	5365	5530
10	5486	5393	5362	5324	5313
15	5724	5626	5586	5325	5475
20	5567	5341	5692	5286	5342
25	5355	5690	5575	5480	5514
30	5390	5592	5323	5487	5611
35	5481	5719	5485	5380	5332
40	5298	5507	5310	5256	5433
45	5430	5683	5501	5657	5378
50	5609	5715	5562	5428	5450
55	5569	5500	5610	5266	5443
60	5623	5386	5563	5648	5600
65	5590	5632	5448	5292	5490
70	5519	5656	5254	5377	5602
75	5607	5336	5340	5556	5614
80	5282	5699	5497	5299	5303
85	5363	5285	5536	5557	5413
90	5491	5358	5394	5262	5604
95	5711	5622	5398	5400	5712

**Type 6 Radar Waveform\_26**

Frequency List (MHz)	0	1	2	3	4
0	5609	5570	5465	5528	5520
5	5597	5459	5425	5431	5262
10	5417	5657	5403	5519	5334
15	5477	5376	5632	5631	5517
20	5483	5636	5379	5684	5259
25	5705	5682	5418	5679	5514
30	5556	5279	5549	5538	5260
35	5685	5275	5572	5612	5638
40	5294	5646	5381	5445	5453
45	5253	5265	5458	5513	5547
50	5443	5377	5358	5429	5698
55	5506	5616	5637	5640	5388
60	5471	5264	5455	5687	5509
65	5374	5626	5367	5718	5473
70	5562	5505	5659	5481	5256
75	5690	5474	5630	5479	5321
80	5333	5724	5359	5287	5494
85	5681	5700	5723	5522	5464
90	5412	5523	5400	5674	5486
95	5345	5639	5384	5610	5592

**Type 6 Radar Waveform\_27**

Frequency List (MHz)	0	1	2	3	4
0	5292	5431	5401	5689	5362
5	5639	5481	5500	5594	5566
10	5348	5543	5444	5617	5355
15	5565	5503	5260	5579	5709
20	5491	5327	5320	5298	5707
25	5496	5631	5621	5405	5548
30	5695	5265	5506	5656	5412
35	5505	5414	5663	5408	5316
40	5683	5485	5561	5383	5693
45	5250	5669	5438	5596	5605
50	5360	5253	5534	5480	5312
55	5361	5353	5329	5591	5565
60	5442	5393	5430	5287	5513
65	5552	5575	5498	5662	5674
70	5276	5256	5588	5284	5330
75	5649	5443	5275	5525	5302
80	5262	5319	5523	5350	5311
85	5584	5542	5308	5445	5390
90	5418	5512	5610	5688	5406
95	5708	5271	5357	5508	5465

**Type 6 Radar Waveform\_28**

Frequency List (MHz)	0	1	2	3	4
0	5547	5670	5337	5375	5582
5	5681	5406	5575	5282	5298
10	5657	5332	5485	5376	5653
15	5630	5363	5624	5426	5402
20	5396	5261	5290	5680	5384
25	5483	5349	5509	5262	5629
30	5463	5661	5325	5456	5279
35	5679	5566	5694	5421	5644
40	5321	5458	5722	5501	5418
45	5663	5549	5507	5710	5531
50	5498	5659	5297	5517	5545
55	5404	5413	5522	5286	5594
60	5436	5398	5447	5601	5409
65	5405	5554	5328	5574	5287
70	5654	5683	5608	5315	5395
75	5668	5283	5362	5372	5687
80	5510	5391	5506	5584	5481
85	5271	5540	5355	5469	5285
90	5333	5378	5412	5267	5628
95	5466	5673	5563	5449	5453

**Type 6 Radar Waveform\_29**

Frequency List (MHz)	0	1	2	3	4
0	5327	5434	5273	5536	5424
5	5345	5428	5650	5445	5505
10	5588	5596	5526	5532	5397
15	5266	5282	5466	5669	5618
20	5410	5562	5299	5379	5653
25	5335	5552	5613	5616	5304
30	5518	5420	5611	5338	5523
35	5595	5370	5475	5719	5608
40	5260	5252	5637	5601	5430
45	5398	5287	5624	5602	5512
50	5383	5411	5582	5587	5385
55	5619	5705	5499	5698	5651
60	5451	5320	5262	5444	5599
65	5396	5716	5675	5357	5497
70	5560	5387	5503	5659	5567
75	5284	5515	5714	5264	5614
80	5482	5356	5376	5573	5388
85	5701	5487	5323	5331	5257
90	5423	5533	5628	5543	5679
95	5510	5575	5312	5433	5432

**Type 6 Radar Waveform\_30**

Frequency List (MHz)	0	1	2	3	4
0	5582	5673	5684	5697	5644
5	5387	5353	5250	5608	5334
10	5519	5385	5664	5252	5418
15	5257	5312	5569	5617	5335
20	5631	5715	5371	5626	5538
25	5284	5280	5717	5650	5443
30	5504	5377	5351	5587	5343
35	5259	5461	5368	5397	5522
40	5574	5575	5366	5338	5359
45	5378	5370	5682	5655	5399
50	5633	5676	5683	5563	5453
55	5420	5258	5616	5265	5355
60	5487	5422	5345	5576	5451
65	5567	5635	5546	5390	5352
70	5526	5253	5382	5720	5294
75	5495	5612	5636	5421	5262
80	5663	5474	5708	5521	5713
85	5295	5329	5514	5299	5314
90	5380	5640	5558	5508	5652
95	5447	5607	5698	5688	5669

Test Site	WZ-SR4	Test Engineer	Jake Lan
Test Date	2022/05/07		
Test Item	Radar Statistical Performance Check (802.11ax-HE80 mode - 5530MHz)		

## Radar Type 1 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	1=Detection 0=No Detection	Trail #	Test Freq. (MHz)	1=Detection 0=No Detection
1	5496	1	16	5512	1
2	5544	1	17	5498	1
3	5550	1	18	5535	1
4	5492	1	19	5506	1
5	5515	1	20	5493	1
6	5532	1	21	5559	1
7	5532	1	22	5544	1
8	5559	1	23	5533	1
9	5569	1	24	5530	1
10	5546	1	25	5553	1
11	5490	1	26	5510	1
12	5533	1	27	5543	1
13	5562	1	28	5538	1
14	5557	1	29	5530	1
15	5556	1	30	5558	1
Detection Percentage (%)					100%



## Radar Type 2 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	1=Detection 0=No Detection	Trail #	Test Freq. (MHz)	1=Detection 0=No Detection
1	5522	1	16	5542	0
2	5499	1	17	5530	1
3	5505	1	18	5517	1
4	5528	1	19	5548	1
5	5504	1	20	5528	1
6	5569	1	21	5526	1
7	5526	1	22	5511	1
8	5496	1	23	5563	0
9	5529	1	24	5518	1
10	5535	1	25	5553	0
11	5515	1	26	5549	1
12	5510	1	27	5534	0
13	5492	1	28	5496	0
14	5534	1	29	5560	0
15	5516	1	30	5490	0
Detection Percentage (%)					76.7%

## Radar Type 3 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	1=Detection 0=No Detection	Trail #	Test Freq. (MHz)	1=Detection 0=No Detection
1	5559	1	16	5543	1
2	5520	1	17	5569	1
3	5501	1	18	5530	1
4	5516	1	19	5536	1
5	5569	1	20	5541	1
6	5509	1	21	5517	1
7	5534	0	22	5496	1
8	5559	1	23	5535	1
9	5547	0	24	5494	0
10	5508	1	25	5548	1
11	5552	1	26	5567	1
12	5544	1	27	5553	1
13	5498	1	28	5569	1
14	5513	0	29	5566	1
15	5550	1	30	5490	0
Detection Percentage (%)					83.3%

## Radar Type 4 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	1=Detection 0=No Detection	Trail #	Test Freq. (MHz)	1=Detection 0=No Detection
1	5530	1	16	5558	1
2	5517	0	17	5490	0
3	5538	1	18	5542	1
4	5534	1	19	5541	0
5	5553	1	20	5552	1
6	5491	1	21	5543	1
7	5542	1	22	5506	1
8	5495	1	23	5516	1
9	5540	1	24	5541	1
10	5566	1	25	5569	1
11	5562	0	26	5528	1
12	5536	1	27	5513	1
13	5554	0	28	5498	1
14	5514	0	29	5547	1
15	5503	1	30	5524	1
Detection Percentage (%)					80%

Note: In addition an average minimum percentage of successful detection across all four Short pulse radar

test waveforms is as follows:  $\frac{P_d1 + P_d2 + P_d3 + P_d4}{4} = (100\% + 76.7\% + 83.3\% + 80\%) / 4 = 85.0\% (>80\%)$

**Type 1 Radar Statistical Performance**

	Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
Download	0	Type 1	1.0	698.0	76	53048.0
Download	1	Type 1	1.0	598.0	89	53222.0
Download	2	Type 1	1.0	858.0	62	53196.0
Download	3	Type 1	1.0	838.0	63	52794.0
Download	4	Type 1	1.0	658.0	81	53298.0
Download	5	Type 1	1.0	558.0	95	53010.0
Download	6	Type 1	1.0	618.0	86	53148.0
Download	7	Type 1	1.0	638.0	83	52954.0
Download	8	Type 1	1.0	758.0	70	53060.0
Download	9	Type 1	1.0	518.0	102	52836.0
Download	10	Type 1	1.0	718.0	74	53132.0
Download	11	Type 1	1.0	798.0	67	53466.0
Download	12	Type 1	1.0	938.0	57	53466.0
Download	13	Type 1	1.0	898.0	59	52982.0
Download	14	Type 1	1.0	818.0	65	53170.0
Download	15	Type 1	1.0	1471.0	36	52956.0
Download	16	Type 1	1.0	719.0	74	53206.0
Download	17	Type 1	1.0	2693.0	20	53860.0
Download	18	Type 1	1.0	1058.0	50	52900.0
Download	19	Type 1	1.0	1258.0	42	52836.0
Download	20	Type 1	1.0	1941.0	28	54348.0
Download	21	Type 1	1.0	2651.0	20	53020.0
Download	22	Type 1	1.0	2117.0	25	52925.0
Download	23	Type 1	1.0	1208.0	44	53152.0
Download	24	Type 1	1.0	998.0	53	52894.0
Download	25	Type 1	1.0	3058.0	18	55044.0
Download	26	Type 1	1.0	2713.0	20	54260.0
Download	27	Type 1	1.0	560.0	95	53200.0
Download	28	Type 1	1.0	643.0	83	53369.0
Download	29	Type 1	1.0	2485.0	22	54670.0

**Type 2 Radar Statistical Performance**

	<b>Trial Id</b>	<b>Radar Type</b>	<b>Pulse Width (us)</b>	<b>PRI (us)</b>	<b>Number of Pulses</b>	<b>Waveform Length (us)</b>
Download	0	Type 2	3.8	158.0	27	4266.0
Download	1	Type 2	1.5	168.0	23	3864.0
Download	2	Type 2	3.4	176.0	27	4752.0
Download	3	Type 2	3.2	191.0	26	4966.0
Download	4	Type 2	2.8	216.0	26	5616.0
Download	5	Type 2	1.6	205.0	24	4920.0
Download	6	Type 2	1.1	214.0	23	4922.0
Download	7	Type 2	1.1	154.0	23	3542.0
Download	8	Type 2	3.9	155.0	28	4340.0
Download	9	Type 2	3.6	169.0	27	4563.0
Download	10	Type 2	4.4	224.0	28	6272.0
Download	11	Type 2	2.0	162.0	24	3888.0
Download	12	Type 2	2.4	180.0	25	4500.0
Download	13	Type 2	1.7	222.0	24	5328.0
Download	14	Type 2	2.3	227.0	25	5675.0
Download	15	Type 2	2.9	217.0	26	5642.0
Download	16	Type 2	4.3	199.0	28	5572.0
Download	17	Type 2	1.2	207.0	23	4761.0
Download	18	Type 2	4.9	174.0	29	5046.0
Download	19	Type 2	4.9	218.0	29	6322.0
Download	20	Type 2	1.1	195.0	23	4485.0
Download	21	Type 2	1.9	164.0	24	3936.0
Download	22	Type 2	3.3	184.0	26	4784.0
Download	23	Type 2	1.4	220.0	23	5060.0
Download	24	Type 2	3.5	183.0	27	4941.0
Download	25	Type 2	3.1	190.0	26	4940.0
Download	26	Type 2	2.9	167.0	26	4342.0
Download	27	Type 2	3.3	166.0	27	4482.0
Download	28	Type 2	2.2	151.0	25	3775.0
Download	29	Type 2	4.5	223.0	29	6467.0

**Type 3 Radar Statistical Performance**

	Trial Id	Radar Type	Pulse Width (us)	PRI (us)	Number of Pulses	Waveform Length (us)
Download	0	Type 3	8.8	318.0	18	5724.0
Download	1	Type 3	6.5	386.0	16	6176.0
Download	2	Type 3	8.4	431.0	17	7327.0
Download	3	Type 3	8.2	206.0	17	3502.0
Download	4	Type 3	7.8	399.0	17	6783.0
Download	5	Type 3	6.6	447.0	16	7152.0
Download	6	Type 3	6.1	493.0	16	7888.0
Download	7	Type 3	6.1	373.0	16	5968.0
Download	8	Type 3	8.9	286.0	18	5148.0
Download	9	Type 3	8.6	315.0	17	5355.0
Download	10	Type 3	9.4	322.0	18	5796.0
Download	11	Type 3	7.0	330.0	16	5280.0
Download	12	Type 3	7.4	221.0	17	3757.0
Download	13	Type 3	6.7	408.0	16	6528.0
Download	14	Type 3	7.3	409.0	17	6953.0
Download	15	Type 3	7.9	430.0	17	7310.0
Download	16	Type 3	9.3	329.0	18	5922.0
Download	17	Type 3	6.2	229.0	16	3664.0
Download	18	Type 3	9.9	398.0	18	7164.0
Download	19	Type 3	9.9	291.0	18	5238.0
Download	20	Type 3	6.1	397.0	16	6352.0
Download	21	Type 3	6.9	445.0	16	7120.0
Download	22	Type 3	8.3	488.0	17	8296.0
Download	23	Type 3	6.4	201.0	16	3216.0
Download	24	Type 3	8.5	354.0	17	6018.0
Download	25	Type 3	8.1	425.0	17	7225.0
Download	26	Type 3	7.9	254.0	17	4318.0
Download	27	Type 3	8.3	377.0	17	6409.0
Download	28	Type 3	7.2	256.0	16	4096.0
Download	29	Type 3	9.5	412.0	18	7416.0

**Type 4 Radar Statistical Performance**

	<b>Trial Id</b>	<b>Radar Type</b>	<b>Pulse Width (us)</b>	<b>PRI (us)</b>	<b>Number of Pulses</b>	<b>Waveform Length (us)</b>
Download	0	Type 4	17.2	318.0	15	4770.0
Download	1	Type 4	12.2	386.0	12	4632.0
Download	2	Type 4	16.4	431.0	14	6034.0
Download	3	Type 4	15.9	206.0	14	2884.0
Download	4	Type 4	15.1	399.0	14	5586.0
Download	5	Type 4	12.4	447.0	12	5364.0
Download	6	Type 4	11.2	493.0	12	5916.0
Download	7	Type 4	11.2	373.0	12	4476.0
Download	8	Type 4	17.5	286.0	15	4290.0
Download	9	Type 4	16.8	315.0	15	4725.0
Download	10	Type 4	18.7	322.0	16	5152.0
Download	11	Type 4	13.4	330.0	13	4290.0
Download	12	Type 4	14.2	221.0	13	2873.0
Download	13	Type 4	12.6	408.0	12	4896.0
Download	14	Type 4	14.0	409.0	13	5317.0
Download	15	Type 4	15.2	430.0	14	6020.0
Download	16	Type 4	18.3	329.0	16	5264.0
Download	17	Type 4	11.5	229.0	12	2748.0
Download	18	Type 4	19.7	398.0	16	6368.0
Download	19	Type 4	19.7	291.0	16	4656.0
Download	20	Type 4	11.4	397.0	12	4764.0
Download	21	Type 4	13.2	445.0	13	5785.0
Download	22	Type 4	16.1	488.0	14	6832.0
Download	23	Type 4	11.9	201.0	12	2412.0
Download	24	Type 4	16.6	354.0	15	5310.0
Download	25	Type 4	15.7	425.0	14	5950.0
Download	26	Type 4	15.2	254.0	14	3556.0
Download	27	Type 4	16.2	377.0	14	5278.0
Download	28	Type 4	13.6	256.0	13	3328.0
Download	29	Type 4	18.9	412.0	16	6592.0

## Radar Type 5 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	1=Detection 0=No Detection	Trail #	Test Freq. (MHz)	1=Detection 0=No Detection
1	5530	1	16	5494.8	1
2	5530	1	17	5496.8	1
3	5530	1	18	5492.4	0
4	5530	1	19	5498	1
5	5530	1	20	5498	1
6	5530	1	21	5567	0
7	5530	1	22	5565.8	1
8	5530	0	23	5563.4	1
9	5530	1	24	5566.6	0
10	5530	1	25	5563.4	1
11	5497.2	1	26	5563.8	1
12	5493.6	1	27	5564.2	1
13	5494	1	28	5563.4	1
14	5492.8	1	29	5565.4	0
15	5494	1	30	5561.4	1
Detection Percentage (%)					83.3%

Type 5 Radar Waveform_1						
Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
694158.0	84.4	15	3	1002.0	1096.0	1443.0
129025.0	56.8	15	1	1884.0	-	-
310090.0	79.7	15	2	1153.0	1637.0	-
490837.0	77.1	15	2	1781.0	1731.0	-
672097.0	72.8	15	2	1304.0	1971.0	-
106716.0	58.1	15	1	1595.0	-	-
288179.0	51.6	15	1	1722.0	-	-
469696.0	51.4	15	1	1666.0	-	-
648706.0	86.1	15	3	1469.0	1750.0	1281.0
84211.0	82.1	15	2	1802.0	1097.0	-
264834.0	92.4	15	3	1909.0	1120.0	1483.0
447630.0	63.2	15	1	1179.0	-	-
628473.0	66.0	15	2	1045.0	1050.0	-
62023.0	58.9	15	1	1317.0	-	-
243157.0	66.9	15	2	1302.0	1385.0	-
424091.0	73.4	15	2	1442.0	1795.0	-



**Type 5 Radar Waveform\_2**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1076447.0	90.5	7	3	1564.0	1640.0	1899.0
70556.0	53.2	7	1	1291.0	-	-
392972.0	97.9	7	3	1052.0	1373.0	1055.0
714770.0	97.9	7	3	1961.0	1217.0	1664.0
1039648.0	52.2	7	1	1413.0	-	-
30761.0	62.1	7	1	1345.0	-	-
353535.0	78.4	7	2	1180.0	1201.0	-
676873.0	55.4	7	1	1318.0	-	-
998083.0	81.1	7	2	1988.0	1789.0	-

**Type 5 Radar Waveform\_3**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
791687.0	76.3	14	2	1760.0	1149.0	-
187924.0	73.2	14	2	1270.0	1600.0	-
381503.0	79.0	14	2	1312.0	1037.0	-
575815.0	64.6	14	1	1161.0	-	-
766163.0	93.9	14	3	1468.0	1825.0	1393.0
164327.0	64.4	14	1	1820.0	-	-
358232.0	53.3	14	1	1104.0	-	-
550612.0	71.1	14	2	1505.0	1592.0	-
742562.0	85.2	14	3	1189.0	1995.0	1331.0
140503.0	53.9	14	1	1698.0	-	-
332874.0	90.5	14	3	1684.0	1867.0	1116.0
525597.0	84.8	14	3	1948.0	1843.0	1133.0
721753.0	57.9	14	1	1245.0	-	-
116450.0	69.2	14	2	1709.0	1391.0	-
310441.0	58.0	14	1	1252.0	-	-

**Type 5 Radar Waveform\_4**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
501534.0	90.9	13	3	1846.0	1987.0	1584.0
694882.0	94.4	13	3	1515.0	1880.0	1293.0
92384.0	94.2	13	3	1778.0	1966.0	1581.0
286224.0	72.7	13	2	1113.0	1130.0	-
477962.0	90.0	13	3	1586.0	1803.0	1753.0
671559.0	90.8	13	3	1394.0	1366.0	1412.0
68847.0	69.5	13	2	1823.0	1156.0	-
261589.0	86.4	13	3	1187.0	1872.0	1622.0
456264.0	57.2	13	1	1557.0	-	-
648885.0	69.1	13	2	1175.0	1644.0	-
45122.0	59.2	13	1	1456.0	-	-
238485.0	78.7	13	2	1478.0	1010.0	-
430971.0	88.1	13	3	1432.0	1707.0	1077.0
626046.0	55.6	13	1	1573.0	-	-
21229.0	81.0	13	2	1460.0	1408.0	-

**Type 5 Radar Waveform\_5**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
247697.0	72.2	12	2	1236.0	1591.0	-
471142.0	78.5	12	2	1299.0	1029.0	-
694256.0	74.3	12	2	1003.0	1585.0	-
915780.0	96.0	12	3	1554.0	1568.0	1195.0
219644.0	96.5	12	3	1951.0	1449.0	1769.0
442729.0	84.9	12	3	1835.0	1139.0	1235.0
666429.0	72.7	12	2	1065.0	1976.0	-
888409.0	86.8	12	3	1365.0	1280.0	1593.0
192395.0	92.3	12	3	1090.0	1300.0	1956.0
415950.0	67.6	12	2	1402.0	1321.0	-
637812.0	89.0	12	3	1678.0	1762.0	1230.0
860813.0	92.1	12	3	1546.0	1690.0	1158.0
165223.0	82.9	12	2	1028.0	1787.0	-

**Type 5 Radar Waveform\_6**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
505842.0	55.0	7	1	1524.0	-	-
795426.0	76.4	7	2	1745.0	1411.0	-
1084694.0	88.6	7	3	1290.0	1896.0	1076.0
179180.0	82.6	7	2	1261.0	1529.0	-
468894.0	84.1	7	3	1563.0	1665.0	1212.0
758443.0	89.8	7	3	1844.0	1761.0	1486.0
1051575.0	56.9	7	1	1296.0	-	-
143604.0	57.9	7	1	1209.0	-	-
433532.0	68.0	7	2	2000.0	1462.0	-
725021.0	55.6	7	1	1328.0	-	-

**Type 5 Radar Waveform\_7**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1269505.0	65.4	5	1	1856.0	-	-
134432.0	90.4	5	3	1264.0	1878.0	1774.0
498039.0	56.8	5	1	1904.0	-	-
859645.0	86.8	5	3	1994.0	1301.0	1617.0
1224318.0	71.8	5	2	1107.0	1277.0	-
89745.0	95.5	5	3	1699.0	1831.0	1773.0
452586.0	84.6	5	3	1739.0	1362.0	1110.0
815093.0	85.7	5	3	1920.0	1724.0	1060.0

**Type 5 Radar Waveform\_8**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1180158.0	65.3	5	1	1647.0	-	-
45215.0	65.4	5	1	1202.0	-	-
408768.0	54.1	5	1	1030.0	-	-
771579.0	81.7	5	2	1396.0	1062.0	-
1135406.0	62.0	5	1	1632.0	-	-
440.0	60.4	5	1	1336.0	-	-
363868.0	61.9	5	1	1519.0	-	-
726989.0	72.7	5	2	1026.0	1127.0	-

**Type 5 Radar Waveform\_9**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
511536.0	73.2	16	2	1375.0	1740.0	-
681962.0	68.2	16	2	1612.0	1521.0	-
149994.0	57.5	16	1	1525.0	-	-
320755.0	51.8	16	1	1673.0	-	-
491903.0	55.0	16	1	1164.0	-	-
662782.0	50.9	16	1	1204.0	-	-
128283.0	98.7	16	3	1352.0	1854.0	1970.0
298491.0	86.7	16	3	1185.0	1484.0	1886.0
469588.0	81.4	16	2	1937.0	1117.0	-
640165.0	80.8	16	2	1155.0	1768.0	-
107609.0	80.5	16	2	1869.0	1616.0	-
278033.0	76.7	16	2	1342.0	1964.0	-
447165.0	94.7	16	3	1907.0	1555.0	1826.0
618085.0	98.3	16	3	1150.0	1324.0	1675.0
86604.0	98.8	16	3	1472.0	1121.0	1066.0
257299.0	73.1	16	2	1451.0	1159.0	-
428345.0	54.2	16	1	1821.0	-	-

**Type 5 Radar Waveform\_10**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
635115.0	72.8	15	2	1683.0	1932.0	-
69981.0	58.9	15	1	1165.0	-	-
251508.0	55.6	15	1	1431.0	-	-
431323.0	89.7	15	3	1654.0	1655.0	1124.0
611677.0	98.1	15	3	1361.0	1873.0	1770.0
47609.0	50.8	15	1	1183.0	-	-
228313.0	91.3	15	3	1259.0	1651.0	1239.0
410910.0	57.6	15	1	1042.0	-	-
591041.0	81.9	15	2	1921.0	1035.0	-
25151.0	73.7	15	2	1979.0	1811.0	-
206416.0	76.7	15	2	1414.0	1343.0	-
387588.0	78.7	15	2	1816.0	1051.0	-
568065.0	73.4	15	2	1959.0	1862.0	-
2868.0	64.4	15	1	1250.0	-	-
183967.0	78.2	15	2	1939.0	1325.0	-
365394.0	70.6	15	2	1233.0	1377.0	-

**Type 5 Radar Waveform\_11**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
460981.0	61.4	18	1	1329.0	-	-
613742.0	66.5	18	1	1425.0	-	-
135636.0	88.7	18	3	1441.0	1805.0	1804.0
289125.0	50.3	18	1	1704.0	-	-
442249.0	66.1	18	1	1191.0	-	-
594981.0	50.5	18	1	1357.0	-	-
117639.0	64.4	18	1	1192.0	-	-
269036.0	91.7	18	3	1763.0	1894.0	1011.0
422128.0	70.1	18	2	1754.0	1356.0	-
576465.0	55.4	18	1	1017.0	-	-
98148.0	91.0	18	3	1949.0	1840.0	1604.0
251705.0	65.0	18	1	1167.0	-	-
404145.0	57.9	18	1	1876.0	-	-
555041.0	91.1	18	3	1609.0	1221.0	1111.0
79771.0	67.0	18	2	1266.0	1527.0	-
232597.0	66.6	18	1	1912.0	-	-
384363.0	81.1	18	2	1858.0	1603.0	-
537321.0	77.4	18	2	1490.0	1246.0	-
60630.0	69.2	18	3	1427.0	1260.0	1712.0

**Type 5 Radar Waveform\_12**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
369709.0	51.5	9	1	1998.0	-	-
633980.0	56.3	9	1	1696.0	-	-
896890.0	83.0	9	2	1767.0	1455.0	-
73004.0	75.1	9	2	1661.0	1522.0	-
336742.0	67.3	9	2	1928.0	1481.0	-
601332.0	66.3	9	1	1892.0	-	-
863316.0	94.2	9	3	1360.0	1635.0	1587.0
40502.0	73.2	9	2	1839.0	1517.0	-
304290.0	77.3	9	2	1930.0	1348.0	-
568108.0	72.0	9	2	1333.0	1881.0	-
833467.0	58.0	9	1	1176.0	-	-

**Type 5 Radar Waveform\_13**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
7354.0	58.0	10	1	1776.0	-	-
249588.0	66.4	10	1	1242.0	-	-
491652.0	52.3	10	1	1580.0	-	-
733970.0	56.0	10	1	1349.0	-	-
974306.0	83.3	10	2	1307.0	1953.0	-
219337.0	81.7	10	2	1215.0	1910.0	-
461845.0	60.0	10	1	1537.0	-	-
703408.0	72.8	10	2	1087.0	1295.0	-
943946.0	88.1	10	3	1021.0	1629.0	1226.0
189471.0	72.3	10	2	1958.0	1614.0	-
430974.0	94.5	10	3	1332.0	1545.0	1068.0
673970.0	63.9	10	1	1841.0	-	-

**Type 5 Radar Waveform\_14**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1098598.0	69.6	7	2	1532.0	1405.0	-
191681.0	92.6	7	3	1101.0	1154.0	1796.0
482945.0	59.9	7	1	1053.0	-	-
772274.0	76.3	7	2	1372.0	1931.0	-
1061416.0	99.8	7	3	1115.0	1890.0	1531.0
155886.0	90.9	7	3	1715.0	1514.0	1337.0
446911.0	56.7	7	1	1631.0	-	-
737602.0	60.0	7	1	1552.0	-	-
1025573.0	97.6	7	3	1069.0	1901.0	1717.0
120225.0	96.0	7	3	1550.0	1286.0	1219.0

**Type 5 Radar Waveform\_15**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
341817.0	75.2	10	2	1945.0	1672.0	-
583900.0	76.6	10	2	1093.0	1792.0	-
827079.0	64.3	10	1	1258.0	-	-
70489.0	78.4	10	2	1143.0	1173.0	-
311916.0	91.5	10	3	1086.0	1114.0	1848.0
554471.0	71.4	10	2	1152.0	1088.0	-
795413.0	84.1	10	3	1364.0	1083.0	1103.0
40667.0	71.9	10	2	1282.0	1439.0	-
282576.0	77.4	10	2	1542.0	1047.0	-
523370.0	87.2	10	3	1633.0	1211.0	1857.0
765609.0	69.7	10	2	1817.0	1779.0	-
10889.0	62.1	10	1	1363.0	-	-

**Type 5 Radar Waveform\_16**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
215991.0	97.5	12	3	1702.0	1838.0	1351.0
423530.0	74.5	12	2	1273.0	1922.0	-
631587.0	62.6	12	1	1911.0	-	-
839463.0	51.8	12	1	1447.0	-	-
191313.0	57.7	12	1	1392.0	-	-
397546.0	85.3	12	3	1535.0	1466.0	1208.0
606467.0	56.6	12	1	1306.0	-	-
813788.0	58.3	12	1	1565.0	-	-
165290.0	89.3	12	3	1218.0	1136.0	1400.0
372666.0	66.9	12	2	1558.0	1274.0	-
580681.0	57.0	12	1	1627.0	-	-
785540.0	92.4	12	3	1837.0	1268.0	1358.0
140196.0	63.4	12	1	1309.0	-	-
347175.0	62.6	12	2	1004.0	1751.0	-

**Type 5 Radar Waveform\_17**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
431642.0	57.3	17	1	1452.0	-	-
589826.0	90.0	17	3	1812.0	1223.0	1952.0
88744.0	94.5	17	3	1094.0	1906.0	1092.0
249826.0	82.3	17	2	1648.0	1418.0	-
410579.0	70.6	17	2	1852.0	1523.0	-
572810.0	61.9	17	1	1794.0	-	-
69218.0	60.4	17	1	1516.0	-	-
230654.0	62.0	17	1	1182.0	-	-
390421.0	91.3	17	3	1608.0	1085.0	1263.0
552226.0	75.8	17	2	1287.0	1374.0	-
49109.0	91.8	17	3	1157.0	1997.0	1579.0
210688.0	54.8	17	1	1450.0	-	-
370308.0	90.3	17	3	1723.0	1598.0	1198.0
530932.0	88.7	17	3	1128.0	1615.0	1736.0
29348.0	88.7	17	3	1210.0	1323.0	1870.0
190911.0	66.2	17	1	1118.0	-	-
350593.0	94.9	17	3	1437.0	1785.0	1172.0
513622.0	57.3	17	1	1276.0	-	-

**Type 5 Radar Waveform\_18**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
21598.0	94.3	6	3	1791.0	1108.0	1475.0
385089.0	57.4	6	1	1435.0	-	-
747116.0	95.1	6	3	1877.0	1071.0	1335.0
1109004.0	85.5	6	3	1957.0	1601.0	1898.0
1475732.0	63.7	6	1	1135.0	-	-
339619.0	98.0	6	3	1480.0	1177.0	1866.0
703162.0	83.1	6	2	1350.0	1380.0	-
1066190.0	71.4	6	2	1415.0	1464.0	-

**Type 5 Radar Waveform\_19**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
571576.0	53.4	20	1	1298.0	-	-
117538.0	89.3	20	3	1538.0	1220.0	1279.0
263406.0	56.6	20	1	1016.0	-	-
408673.0	58.3	20	1	1024.0	-	-
552837.0	69.5	20	2	1081.0	1140.0	-
100011.0	71.9	20	2	1112.0	1271.0	-
245153.0	65.0	20	1	1893.0	-	-
390687.0	58.9	20	1	1166.0	-	-
535339.0	64.0	20	1	1818.0	-	-
81873.0	94.1	20	3	1222.0	1534.0	1694.0
226714.0	77.5	20	2	1420.0	1975.0	-
370523.0	95.2	20	3	1730.0	1313.0	1775.0
517774.0	66.5	20	1	1465.0	-	-
64352.0	57.7	20	1	1941.0	-	-
209527.0	51.7	20	1	1577.0	-	-
352445.0	85.5	20	3	1714.0	1874.0	1732.0
498551.0	83.3	20	2	1611.0	1461.0	-
46303.0	86.9	20	3	1902.0	1214.0	1162.0
191752.0	60.1	20	1	1257.0	-	-
337001.0	52.9	20	1	1196.0	-	-

**Type 5 Radar Waveform\_20**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
479352.0	95.1	20	3	1551.0	1389.0	1829.0
28540.0	87.9	20	2	1954.0	1619.0	-
173193.0	69.6	20	2	1891.0	1681.0	-
318434.0	73.1	20	2	1227.0	1241.0	-
462404.0	72.0	20	2	1982.0	1711.0	-
10700.0	99.7	20	3	1677.0	1659.0	1470.0
155078.0	98.1	20	3	1253.0	1716.0	1742.0
301131.0	55.9	20	1	1378.0	-	-
444030.0	87.5	20	3	1289.0	1229.0	1946.0
590030.0	71.9	20	2	1528.0	1336.0	-
137738.0	76.3	20	2	1547.0	1240.0	-
281665.0	96.6	20	3	1383.0	1487.0	1853.0
426163.0	99.2	20	3	1793.0	1625.0	1131.0
570762.0	99.2	20	3	1099.0	1597.0	1662.0
120254.0	58.5	20	1	1006.0	-	-
264801.0	71.1	20	2	1513.0	1137.0	-
410800.0	55.3	20	1	1012.0	-	-
554326.0	83.0	20	2	1289.0	1605.0	-
102211.0	56.2	20	1	1879.0	-	-
246810.0	69.8	20	2	1708.0	1294.0	-

**Type 5 Radar Waveform\_21**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
980831.0	89.8	5	3	1379.0	1780.0	1556.0
1344323.0	81.4	5	2	1847.0	1934.0	-
211162.0	74.7	5	2	1433.0	1089.0	-
573591.0	94.6	5	3	1599.0	1146.0	1748.0
936243.0	88.7	5	3	1170.0	1865.0	1548.0
1298446.0	99.8	5	3	1882.0	1936.0	1320.0
166128.0	90.9	5	3	1583.0	1916.0	1697.0
528949.0	86.5	5	3	1197.0	1426.0	1771.0

**Type 5 Radar Waveform\_22**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
649659.0	55.7	8	1	1244.0	-	-
913610.0	59.6	8	1	1634.0	-	-
88500.0	52.2	8	1	1859.0	-	-
352148.0	76.8	8	2	1419.0	1926.0	-
614767.0	87.8	8	3	1887.0	1549.0	1938.0
880444.0	80.2	8	2	1399.0	1007.0	-
55907.0	76.4	8	2	1986.0	1005.0	-
319551.0	85.5	8	3	1049.0	1292.0	1367.0
583802.0	69.7	8	2	1502.0	1142.0	-
845779.0	83.5	8	3	1638.0	1607.0	1917.0
23375.0	86.3	8	3	1628.0	1008.0	1814.0

**Type 5 Radar Waveform\_23**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
210382.0	69.8	14	2	1836.0	1401.0	-
403540.0	73.9	14	2	1428.0	1972.0	-
598051.0	59.1	14	1	1650.0	-	-
790144.0	71.5	14	2	1810.0	1386.0	-
186304.0	92.1	14	3	1679.0	1308.0	1424.0
379805.0	67.8	14	2	1407.0	1860.0	-
573610.0	81.0	14	2	1234.0	1237.0	-
764879.0	96.0	14	3	1132.0	1669.0	1913.0
162734.0	67.3	14	2	1851.0	1596.0	-
355475.0	99.3	14	3	1984.0	1048.0	1416.0
549286.0	80.6	14	2	1688.0	1507.0	-
742879.0	80.1	14	2	1080.0	1747.0	-
139290.0	50.2	14	1	1423.0	-	-
332553.0	80.6	14	2	1036.0	1388.0	-
524678.0	90.3	14	3	1533.0	1122.0	1759.0

**Type 5 Radar Waveform\_24**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1200907.0	63.2	6	1	1977.0	-	-
192470.0	63.6	6	1	1808.0	-	-
514371.0	93.2	6	3	1255.0	1430.0	1799.0
837810.0	75.0	6	2	1147.0	1509.0	-
1159765.0	84.5	6	3	1224.0	1129.0	1193.0
152561.0	72.3	6	2	1057.0	1885.0	-
475815.0	58.8	6	1	1285.0	-	-
798570.0	61.6	6	1	1800.0	-	-
1121533.0	50.1	6	1	1772.0	-	-

**Type 5 Radar Waveform\_25**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
63334.0	77.8	14	2	1469.0	1668.0	-
244767.0	69.7	14	2	1067.0	1168.0	-
425333.0	99.5	14	3	1009.0	1574.0	1039.0
607842.0	58.7	14	1	1790.0	-	-
41017.0	69.0	14	2	1344.0	1883.0	-
222162.0	72.8	14	2	1206.0	1925.0	-
403092.0	73.0	14	2	1868.0	1649.0	-
585658.0	51.4	14	1	1575.0	-	-
18712.0	71.8	14	2	1371.0	1691.0	-
199514.0	96.8	14	3	1410.0	1963.0	1013.0
380042.0	86.4	14	3	1850.0	1566.0	1571.0
561300.0	96.0	14	3	1929.0	1064.0	1238.0
742619.0	80.7	14	2	1782.0	2000.0	-
177926.0	59.9	14	1	1494.0	-	-
358914.0	82.7	14	2	1446.0	1190.0	-
539682.0	76.8	14	2	1518.0	1798.0	-



**Type 5 Radar Waveform\_26**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
825490.0	57.7	13	1	1981.0	-	-
177789.0	53.7	13	1	1706.0	-	-
384752.0	73.5	13	2	1207.0	1626.0	-
590350.0	87.3	13	3	1992.0	1660.0	1488.0
798641.0	75.2	13	2	1587.0	1806.0	-
152018.0	79.6	13	2	1272.0	1645.0	-
359712.0	51.9	13	1	1686.0	-	-
565773.0	96.3	13	3	1178.0	1082.0	1559.0
772524.0	97.6	13	3	1319.0	1390.0	1339.0
126440.0	66.9	13	2	1334.0	1978.0	-
334204.0	62.7	13	1	1582.0	-	-
539363.0	92.4	13	3	1830.0	1448.0	1991.0
746410.0	94.7	13	3	1497.0	1914.0	1354.0
100874.0	99.1	13	3	1278.0	1041.0	1485.0

**Type 5 Radar Waveform\_27**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
308584.0	63.9	12	1	1729.0	-	-
516040.0	60.9	12	1	1744.0	-	-
723323.0	62.2	12	1	1955.0	-	-
75614.0	58.9	12	1	1174.0	-	-
282017.0	93.7	12	3	1888.0	1590.0	1311.0
489572.0	72.4	12	2	1474.0	1863.0	-
697353.0	68.4	12	2	1225.0	1247.0	-
49944.0	72.3	12	2	1544.0	1305.0	-
257119.0	77.0	12	2	1721.0	1188.0	-
463313.0	94.6	12	3	1667.0	1315.0	1738.0
671232.0	76.3	12	2	1297.0	1923.0	-
24414.0	79.1	12	2	1404.0	1749.0	-
231939.0	58.2	12	1	1657.0	-	-
439294.0	53.5	12	1	1905.0	-	-

**Type 5 Radar Waveform\_28**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
601340.0	94.2	14	3	1813.0	1569.0	1387.0
794710.0	94.4	14	3	1095.0	1330.0	1842.0
192328.0	82.5	14	2	1501.0	1268.0	-
386227.0	53.7	14	1	1642.0	-	-
580033.0	60.5	14	1	1397.0	-	-
770923.0	98.3	14	3	1520.0	1359.0	1403.0
168403.0	76.7	14	2	1322.0	1962.0	-
361649.0	68.6	14	2	1623.0	1621.0	-
553759.0	85.4	14	3	1832.0	1999.0	1034.0
748224.0	74.4	14	2	1610.0	1530.0	-
144707.0	75.0	14	2	1141.0	1561.0	-
337213.0	98.3	14	3	1602.0	1213.0	1924.0
531005.0	67.7	14	2	1578.0	1788.0	-
725802.0	53.2	14	1	1618.0	-	-
121140.0	61.1	14	1	1043.0	-	-

**Type 5 Radar Waveform\_29**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
429314.0	52.0	9	1	1705.0	-	-
693806.0	60.0	9	1	1194.0	-	-
956217.0	80.7	9	2	1895.0	1436.0	-
132628.0	56.8	9	1	1543.0	-	-
396166.0	72.7	9	2	1996.0	1381.0	-
660456.0	82.8	9	2	1471.0	1033.0	-
924082.0	75.4	9	2	1713.0	1200.0	-
99820.0	83.7	9	3	1015.0	1720.0	1685.0
363680.0	71.8	9	2	1582.0	1784.0	-
628558.0	66.2	9	1	1434.0	-	-
893045.0	60.2	9	1	1123.0	-	-

**Type 5 Radar Waveform\_30**

Burst Offset (us)	Pulse Width (us)	Chirp Width (MHz)	Number of Pulses per Burst	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
39086.0	58.3	19	1	1151.0	-	-
191119.0	85.5	19	3	1633.0	1056.0	1102.0
343893.0	76.7	19	2	1019.0	1942.0	-
496527.0	79.0	19	2	1303.0	1436.0	-
20232.0	60.9	19	1	1801.0	-	-
172010.0	96.1	19	3	1624.0	1834.0	1849.0
324943.0	71.3	19	2	1536.0	1756.0	-
475658.0	98.5	19	3	1845.0	1693.0	1944.0
1418.0	52.0	19	1	1510.0	-	-
154122.0	53.2	19	1	1950.0	-	-
305306.0	84.5	19	3	1467.0	1903.0	1700.0
460077.0	59.0	19	1	1203.0	-	-
610766.0	81.8	19	2	1482.0	1980.0	-
134626.0	96.4	19	3	1382.0	1861.0	1900.0
287896.0	72.4	19	2	1031.0	1184.0	-
436684.0	95.3	19	3	1396.0	1726.0	1735.0
592973.0	75.6	19	2	1022.0	1409.0	-
116112.0	87.9	19	3	1251.0	1353.0	1459.0
268526.0	83.9	19	3	1070.0	1384.0	1084.0



Radar Type 6 - Radar Statistical Performance

Trail #	1=Detection 0=No Detection	Trail #	1=Detection 0=No Detection
1	1	16	1
2	1	17	1
3	1	18	1
4	1	19	1
5	1	20	1
6	1	21	1
7	1	22	1
8	1	23	1
9	1	24	1
10	1	25	1
11	1	26	1
12	1	27	1
13	1	28	1
14	1	29	1
15	1	30	1
Detection Percentage (%)			100%

Type 6 Radar Waveform_1					
Frequency List (MHz)	0	1	2	3	4
0	5680	5387	5401	5615	5494
5	5605	5481	5593	5712	5575
10	5281	5557	5354	5714	5267
15	5720	5319	5385	5458	5441
20	5394	5419	5639	5508	5644
25	5609	5701	5411	5358	5478
30	5491	5624	5705	5469	5345
35	5672	5400	5659	5526	5574
40	5629	5591	5365	5324	5568
45	5513	5686	5459	5607	5408
50	5344	5541	5536	5315	5487
55	5454	5343	5602	5529	5414
60	5528	5413	5552	5259	5620
65	5722	5372	5332	5524	5640
70	5689	5587	5553	5621	5531
75	5326	5443	5265	5299	5509
80	5626	5417	5397	5333	5516
85	5404	5583	5565	5550	5663
90	5649	5295	5653	5427	5562
95	5258	5363	5504	5559	5549

**Type 6 Radar Waveform\_2**

Frequency List (MHz)	0	1	2	3	4
0	5460	5626	5337	5301	5336
5	5269	5503	5668	5400	5307
10	5590	5346	5395	5434	5288
15	5333	5349	5488	5406	5633
20	5449	5560	5360	5253	5481
25	5532	5461	5429	5515	5392
30	5550	5484	5448	5384	5479
35	5667	5484	5385	5671	5440
40	5413	5712	5529	5508	5321
45	5497	5493	5294	5517	5627
50	5397	5662	5520	5592	5625
55	5613	5431	5545	5533	5421
60	5500	5258	5579	5473	5720
65	5378	5302	5311	5542	5319
70	5443	5383	5573	5653	5470
75	5507	5285	5315	5345	5490
80	5403	5527	5401	5565	5366
85	5260	5704	5675	5382	5423
90	5369	5441	5673	5566	5677
95	5690	5424	5556	5685	5686

**Type 6 Radar Waveform\_3**

Frequency List (MHz)	0	1	2	3	4
0	5618	5390	5273	5462	5556
5	5311	5525	5268	5466	5514
10	5521	5707	5436	5629	5309
15	5421	5476	5591	5451	5350
20	5457	5398	5720	5454	5323
25	5410	5632	5716	5426	5592
30	5353	5405	5482	5631	5487
35	5526	5564	5587	5354	5252
40	5320	5467	5318	5329	5376
45	5377	5478	5680	5284	5538
50	5696	5643	5336	5339	5278
55	5258	5483	5723	5374	5387
60	5269	5418	5552	5301	5644
65	5620	5347	5686	5721	5455
70	5656	5319	5386	5719	5505
75	5488	5471	5558	5540	5434
80	5661	5642	5595	5468	5331
85	5461	5603	5658	5448	5580
90	5491	5375	5475	5555	5583
95	5257	5674	5322	5438	5306

**Type 6 Radar Waveform\_4**

Frequency List (MHz)	0	1	2	3	4
0	5398	5251	5684	5623	5301
5	5353	5450	5343	5629	5452
10	5496	5574	5349	5330	5412
15	5603	5694	5542	5368	5320
20	5339	5334	5427	5686	5262
25	5263	5345	5363	5634	5362
30	5697	5405	5685	5665	5567
35	5360	5265	5365	5566	5403
40	5513	5315	5258	5356	5460
45	5536	5549	5414	5397	5425
50	5637	5446	5437	5341	5516
55	5434	5384	5602	5669	5370
60	5569	5383	5584	5481	5524
65	5624	5642	5281	5643	5678
70	5631	5528	5534	5335	5650
75	5690	5350	5327	5395	5371
80	5648	5649	5653	5568	5709
85	5696	5400	5656	5381	5509
90	5314	5312	5280	5695	5417
95	5508	5703	5304	5581	5435