



DFS TEST REPORT
No. 160401630SHA-003

Applicant : Aruba Networks, Inc
1344 Crossman Ave. Sunnyvale, CA,94089
Manufacturer : Aruba Networks, Inc
1344 Crossman Ave. Sunnyvale, CA,94089
Product Name : Wireless Access Point
Type/Model : APINH103
TEST RESULT : PASS

SUMMARY

The equipment complies with the requirements according to the following standard(s):

47CFR Part 15 (2015): Radio Frequency Devices

RSS-Gen, Issue 4 (November 2014): General Requirements and Information for the Certification of Radio communication Equipment

RSS-247 (Issue 1, 2015): Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and License-Exempt Local Area Network (LE-LAN) Devices

KDB 905462 D02 UNII DFS Compliance Procedures New Rules v01r02:
Compliance Measurement Procedures for Unlicensed-National Information Infrastructure Devices Operating In The 5250-5350 MHz and 5470-5725 MHz Bands Incorporating Dynamic Frequency Selection

Date of issue: April 20, 2016

Prepared by:

Wade Zhang (*Project Engineer*)

Reviewed by:

Daniel Zhao (*Reviewer*)

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1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product Name : Wireless Access Point
Type/Model : APINH103
FCC ID : Q9DAPINH103
IC : 4675A-APINH103
Description of EUT : The EUT is a wireless access point, and it is a 2×2 MIMO product.
Antenna : 1: R-AN-WLL-ARB-1:
Integral, 3.5dBi for 2.4GHz band, 3.7dBi for 5GHz band;
2: R-AN-WLL-ARB-3:
Integral, 3.6dBi for 2.4GHz band, 3.3dBi for 5GHz band;
Rating : DC 12V, 1A (Adaptor) or DC 57V, 350 mA(PoE)
Port identification : DC power port *1;
RJ45 ports *5
Category of EUT : Class B
EUT type : Table top Floor standing
Sample received date : January 10, 2016
Sample Identification No : MAC:000B86B9DD6F
Date of test : January 10, 2016 – February 18, 2016



1.2 RF Technical Information

Specification Items	Description
Protocol	802.11a/n20/n40
Modulation	BPSK / QPSK / 16QAM / 64QAM
Channel Frequency	5250-5350MHz; 5470-5725MHz
Channel Bandwidth	20/40MHz
Weather Band (5600~5650MHz)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Max. EIRP Power	<input type="checkbox"/> < 200mW <input checked="" type="checkbox"/> ≥ 200mW
Operating Mode	<input checked="" type="checkbox"/> Master <input type="checkbox"/> Salve
Manufacturer Statement	Manufacturer statement confirming that information regarding the parameters of the detected Radar Waveforms are not available to the end user.



1.3 Description of Client

Applicant : Aruba Networks, Inc
1344 Crossman Ave. Sunnyvale, CA,94089
Name of contact : Rob Hastings
Tel : 650-236-9611
Fax : /
Email : rob.hgastings@hpe.com
Manufacturer : Aruba Networks, Inc
1344 Crossman Ave. Sunnyvale, CA,94089

1.4 Description of Test Facility

Name : Intertek Testing Service Shanghai
Address : Building 86, No. 1198 Qinzhou Road(North), Shanghai
200233, P.R. China
Telephone : 86 21 61278200
Telefax : 86 21 54262353

2 TEST SPECIFICATIONS

2.1 Standards or specification

47CFR Part 15 (2015): Radio Frequency Devices

RSS-Gen, Issue 4 (November 2014): General Requirements and Information for the Certification of Radio communication Equipment

RSS-247 (Issue 1, 2015): Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and License-Exempt Local Area Network (LE-LAN) Devices

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2.2 Mode of operation during the test / Test peripherals used

Stream the channel loading test file from the Master Device to the Client Device on the test Channel for the entire period of the test if necessary.

The EUT was operating with the following software listed below. The software is secured by Aruba OS to prevent the user from disabling the DFS function.

Master Device: 6.5.0.0 Build 52002

2.3 Instrument list

Selected	Instrument	EC no.	Model	Valid until date
<input checked="" type="checkbox"/>	PXA Signal Analyzer	EC5338	N9030A	2016-11-16
<input checked="" type="checkbox"/>	Power sensor	EC5338-1	U2021XA	2016-10-1
<input checked="" type="checkbox"/>	MXG Analog Signal Generator	EC5338-2	N5181A	2016-11-5
<input checked="" type="checkbox"/>	MXG Vector Signal Generator	EC5338-1	N51812B	2016-12-28

Test Software	Manufacturer	Function
Pulse Building	Agilent	Radar Signal Generation Software
DFS Tool	Agilent	DFS Test Software

2.4 Test Summary

This report applies to tested sample only. The test results have been compared directly with the limits, and the measurement uncertainty is recorded. This report shall not be reproduced in part without written approval of Intertek Testing Service Shanghai Limited.

TEST ITEM	FCC CLAUSE	IC CLAUSE	TEST RESULT
Initial Channel Availability Check Time	15.407(h)(2)	RSS247 clause 6.2 (ii)	Pass
Radar Burst at the Beginning of the Channel Availability Check & End of the Channel	15.407(h)(2)	RSS247 clause 6.2 (ii)	Pass
Channel Move Time, Channel Closing Time	15.407(h)(2)	RSS247 clause 6.2 (iii), (iv)	Pass
Non-occupancy period	15.407(h)(2)	RSS247 clause 6.2 (v)	Pass
UNII Detection Bandwidth Measurement	15.407(h)(2)	RSS247 clause 6.2 (i)	Pass
Statistical Performance Check	15.407(h)(2)	RSS247 clause 6.2 (i)	Pass

Notes: 1: NA =Not Applicable

3 DFS Detection Thresholds and Radar Test Waveforms

3.1 Interference Threshold values

Maximum Transmit Power	Value (see note)
≥ 200 mW	-64 dBm
< 200 mW	-62 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.

3.2 DFS Response requirement values

Parameter	Value
<i>Non-occupancy period</i>	Minimum 30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds See Note 1.
<i>Channel Closing Transmission Time</i>	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
<i>U-NII Detection Bandwidth</i>	Minimum 80% of the 99% 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.

3.3 Radar Test Waveforms Minimum Step

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.

3.4 Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μs)	PRI (μs)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1a	1	15 unique PRI values randomly selected from the list of 23 PRI values in Note 2	Roundup $\{(1/360) * (19 * 10^6 / \text{PRI})\}$	60%	30
1b		15 unique PRI values randomly selected within the range of 518-3066μsec, with a minimum increment of 1 μsec, excluding PRI values selected in radar type 1a			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120

Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.

Note 2: Pulse Repetition Intervals Values for Radar Type 1a

Pulse Repetition Frequency No	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (us)
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

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

For example if in Short Pulse Radar Type 1 Test B a PRI of 3066us is selected, the number of pulses would be

$$\text{Roundup} \left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{3066} \right) \right\} = \text{Roundup} \{17.2\} = 18.$$

3.5 Long Pulse Radar Test Waveform

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

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

Each waveform is defined as follows:

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

microsecond. The start time for each *Burst* is chosen randomly.

A representative example of a Long Pulse Radar Type waveform:

- 1) The total test waveform length is 12 seconds.
- 2) Eight (8) *Bursts* are randomly generated for the *Burst_Count*.
- 3) *Burst* 1 has 2 randomly generated pulses.
- 4) The pulse width (for both pulses) is randomly selected to be 75 microseconds.
- 5) The PRI is randomly selected to be at 1213 microseconds.
- 6) *Bursts* 2 through 8 are generated using steps 3 – 5.
- 7) Each *Burst* is contained in even intervals of 1,500,000 microseconds. The starting location for Pulse 1, *Burst* 1 is randomly generated (1 to 1,500,000 minus the total *Burst* 1 length + 1 random PRI interval) at the 325,001 microsecond step. *Bursts* 2 through 8 randomly fall in successive 1,500,000 microsecond intervals (i.e. *Burst* 2 falls in the 1,500,001 – 3,000,000 microsecond range).

3.6 Frequency Hopping Radar Test Waveform

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

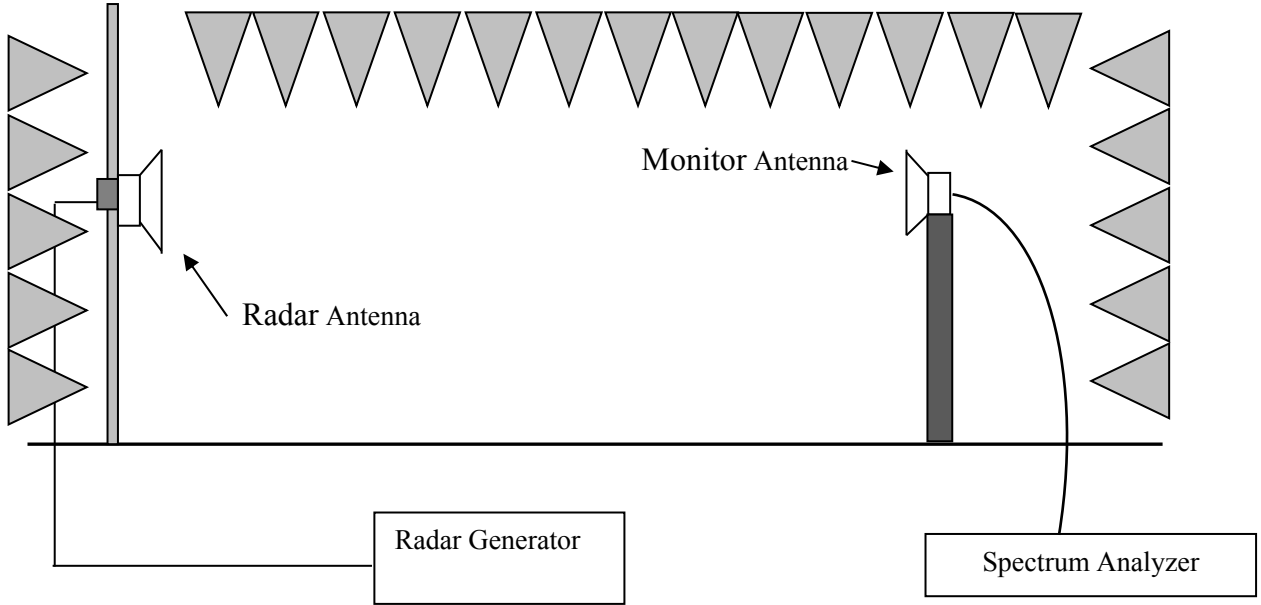
For the Frequency Hopping Radar Type, the same Burst parameters are used for each waveform. The hopping sequence is different for each waveform and a 100-length segment is selected from the hopping sequence defined by the following algorithm:

The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250 – 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.

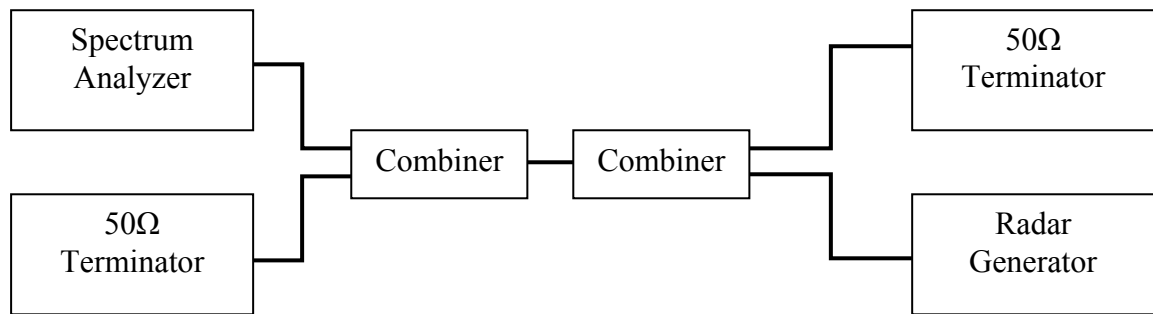
Note: If a segment does not contain at least 1 frequency within the U-NII Detection Bandwidth of the UUT, then that segment is not used.

3.7 Calibration Setup

Radiated Method



Conducted Method



3.8 Radar Waveform Calibration Procedure

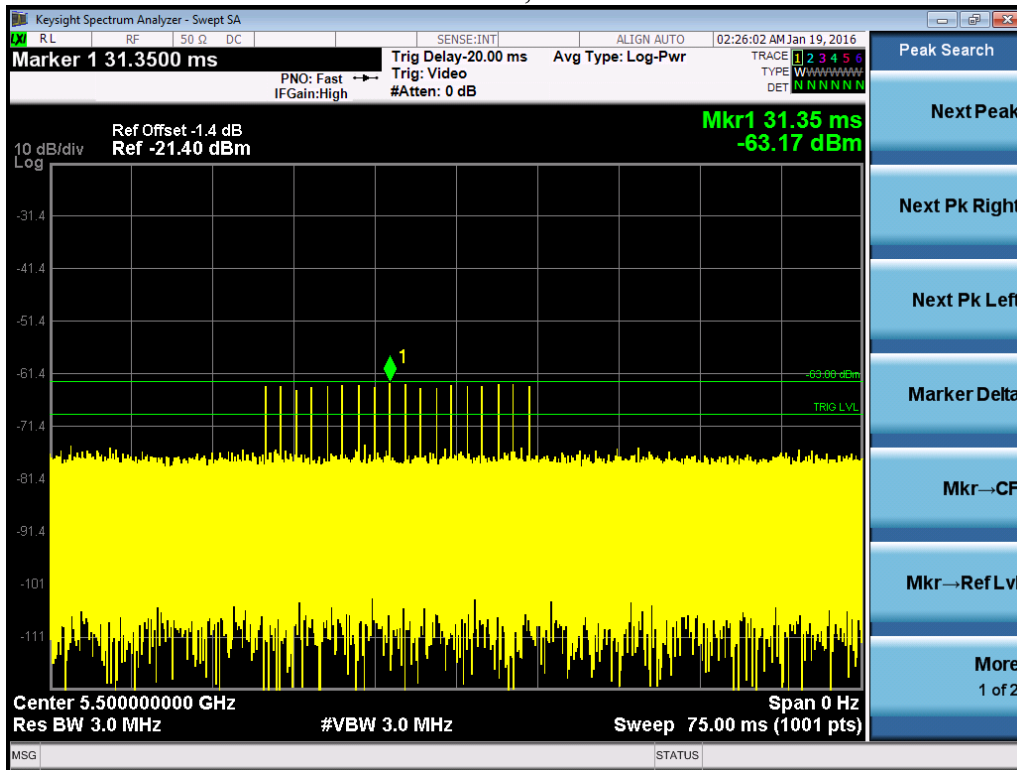
The Interference Radar Detection Threshold Level is -64dBm or -62dBm + 0 [dBi] + 1 dB that had been taken into account the output power range and antenna gain. The above equipment setup was used to calibrate the conducted Radar Waveform. A vector signal generator was utilized to establish the test signal 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 -64dBm or -62dBm + 0 [dBi] + 1 dB. Capture the spectrum analyzer plots on short pulse radar types, long pulse radar type and hopping radar waveform.

Central Frequency of Calibration:

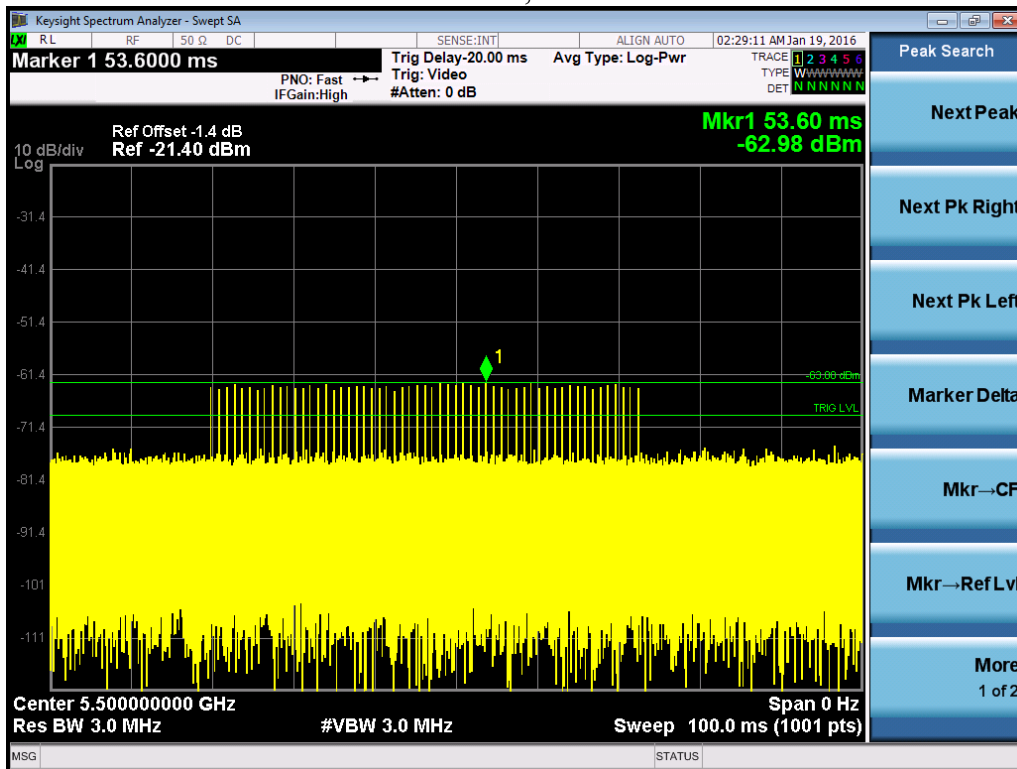
- Bandwidth 20MHz: 5500MHz
- Bandwidth 40MHz: 5510MHz

3.9 Radar Waveform Calibration Result

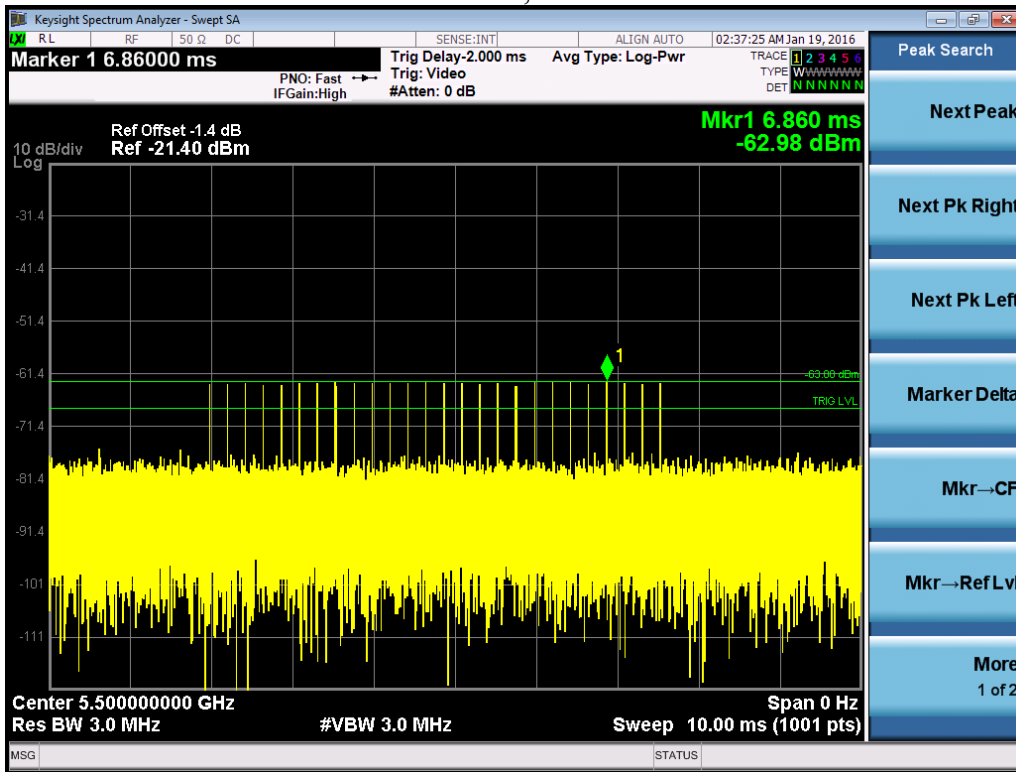
5500MHz, Radar 0



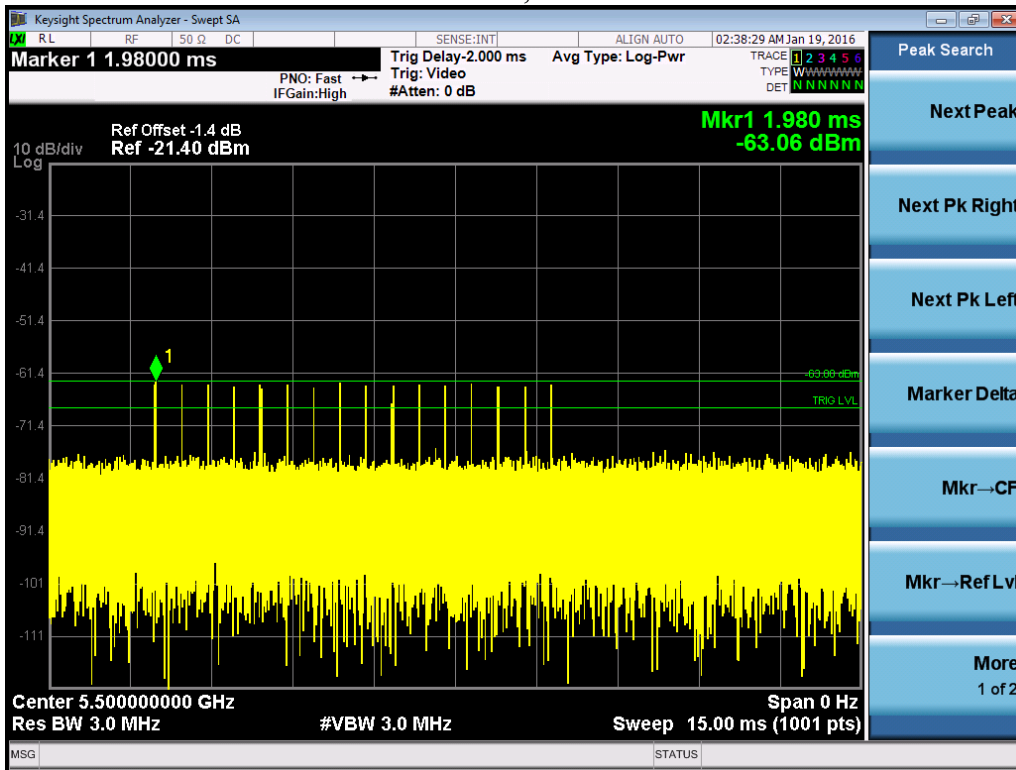
5500MHz, Radar 1



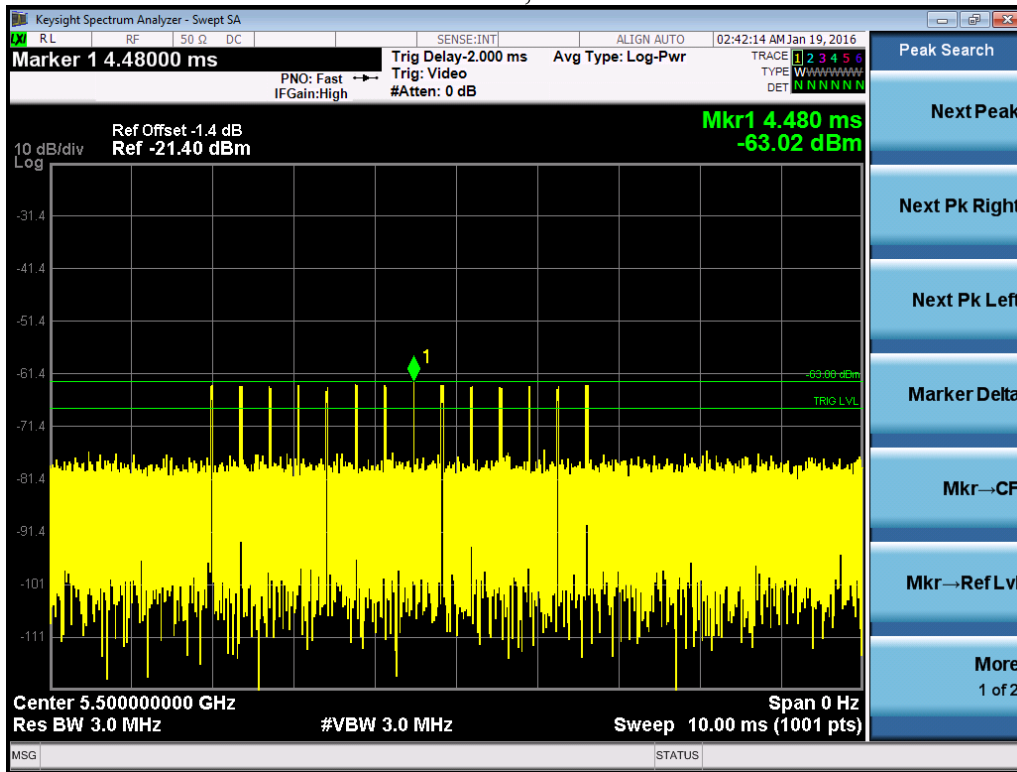
5500MHz, Radar 2



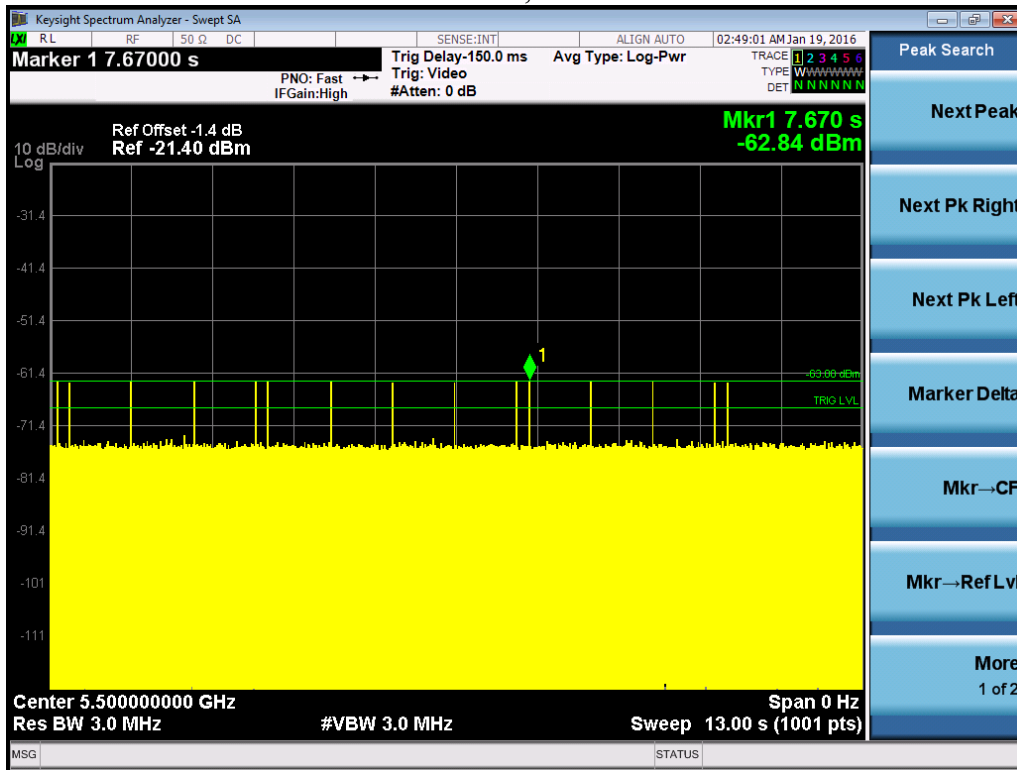
5500MHz, Radar 3



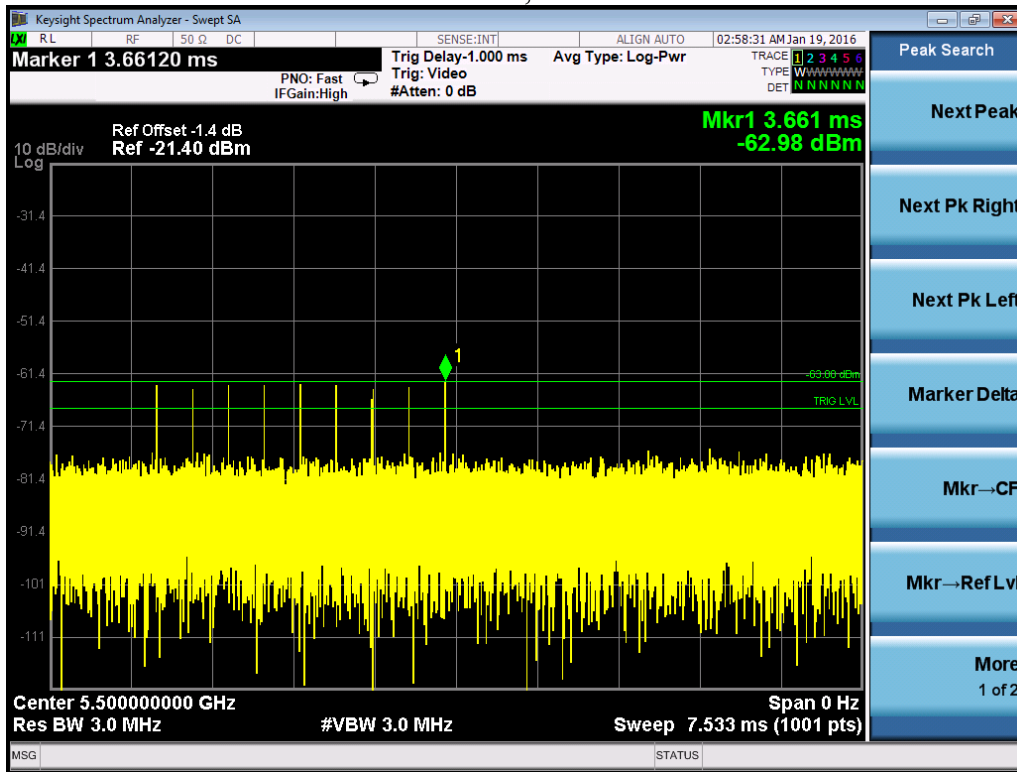
5500MHz, Radar 4



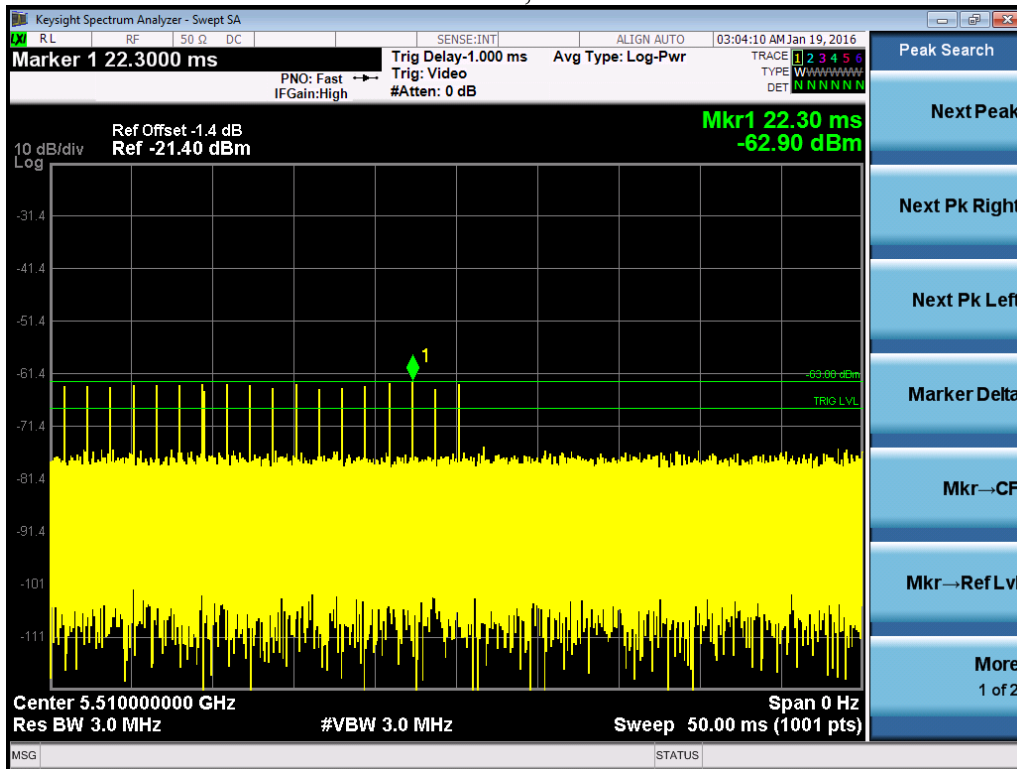
5500MHz, Radar 5



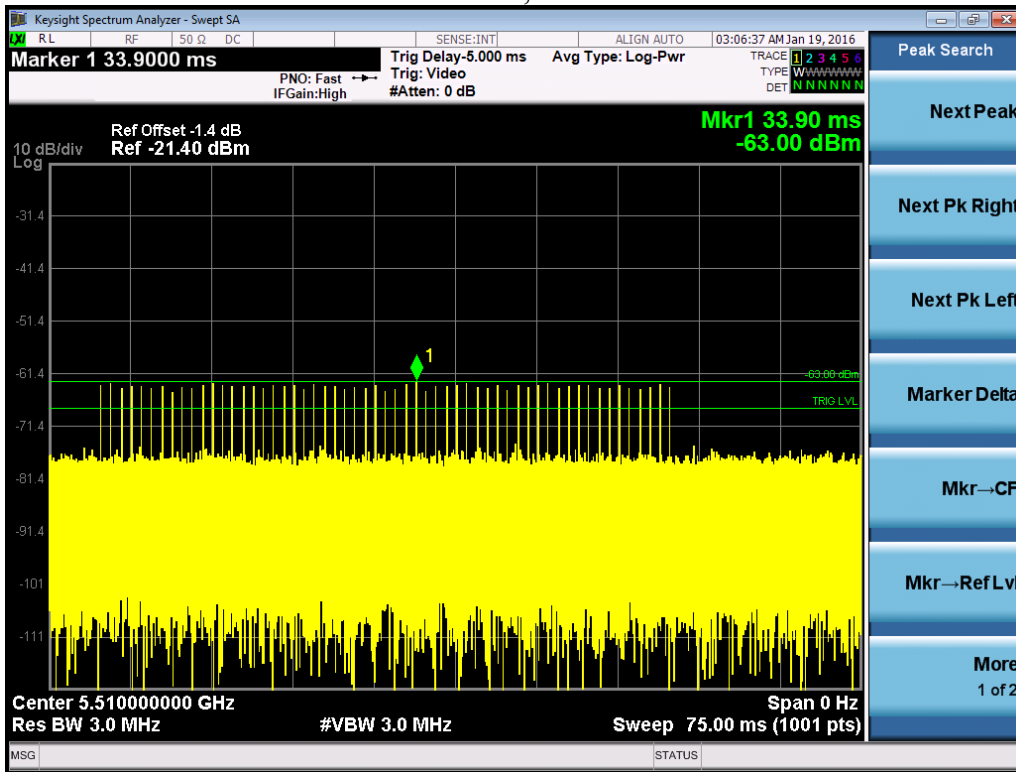
5500MHz, Radar 6



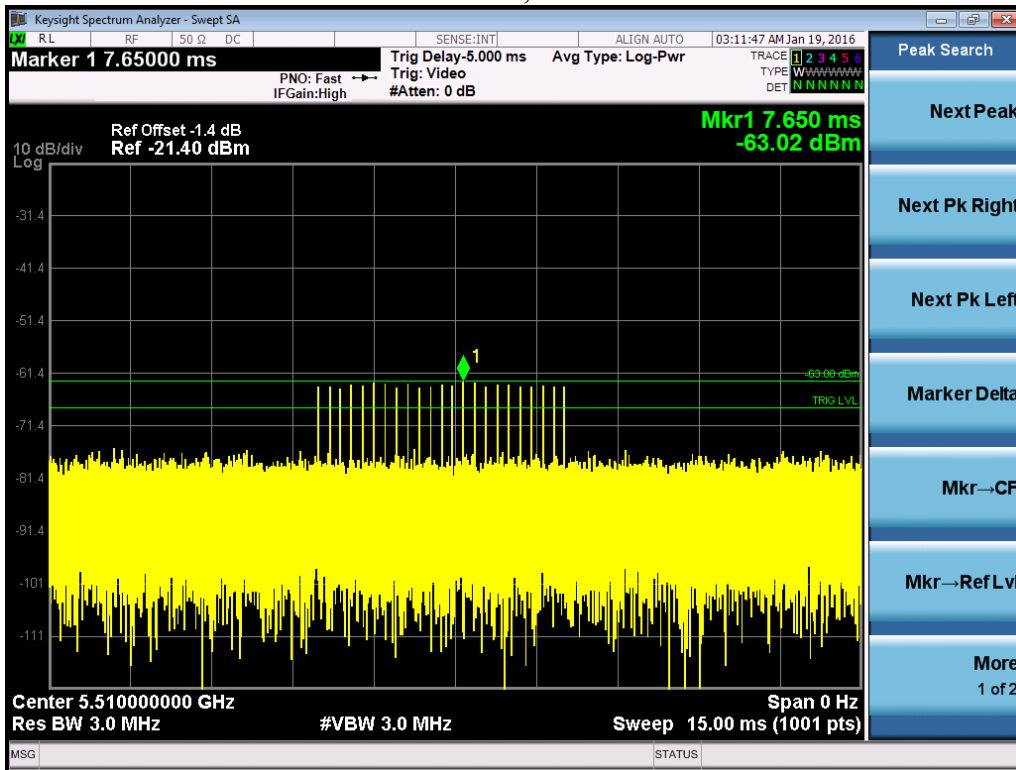
5510MHz, Radar 0



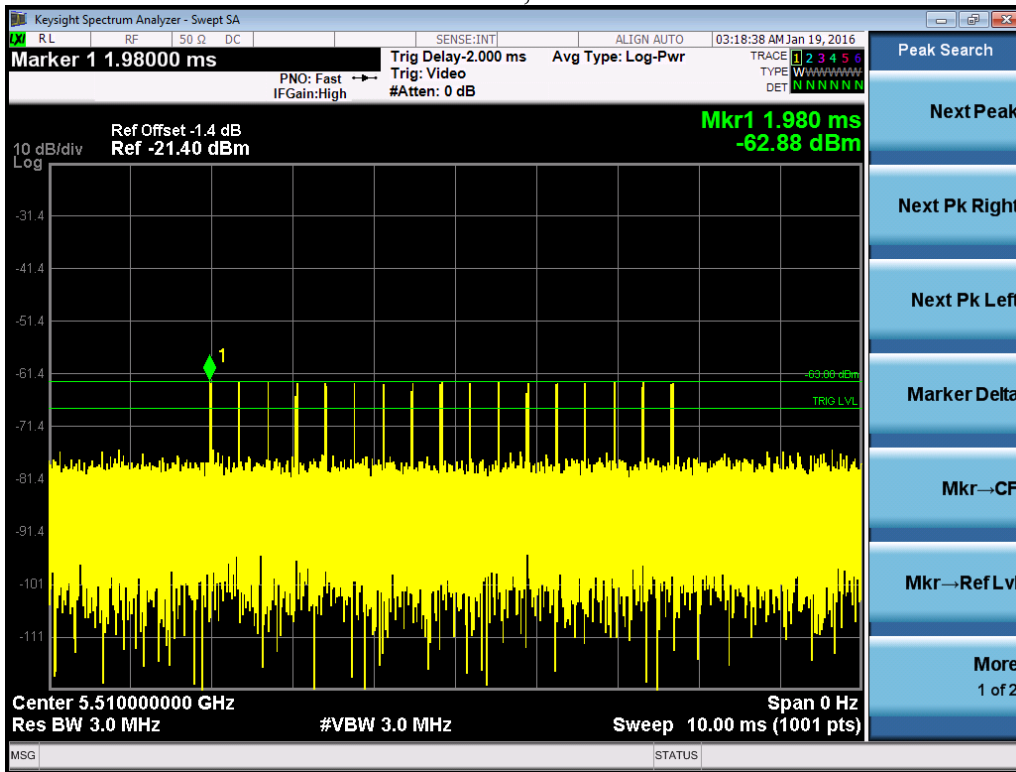
5510MHz, Radar 1



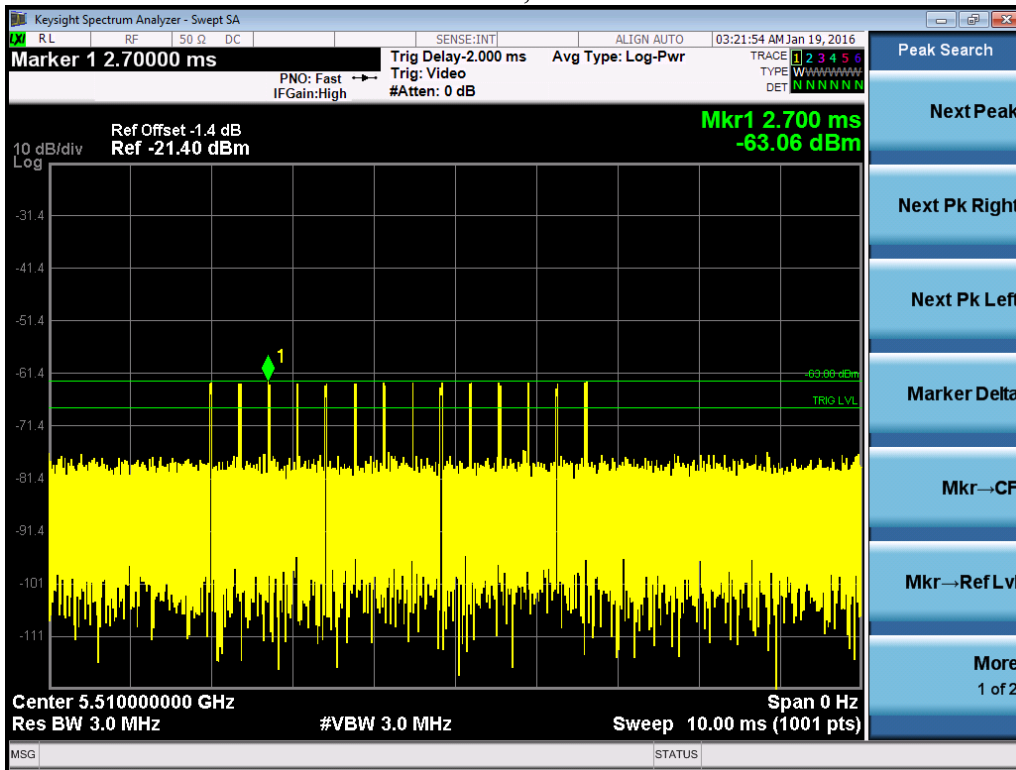
5510MHz, Radar 2



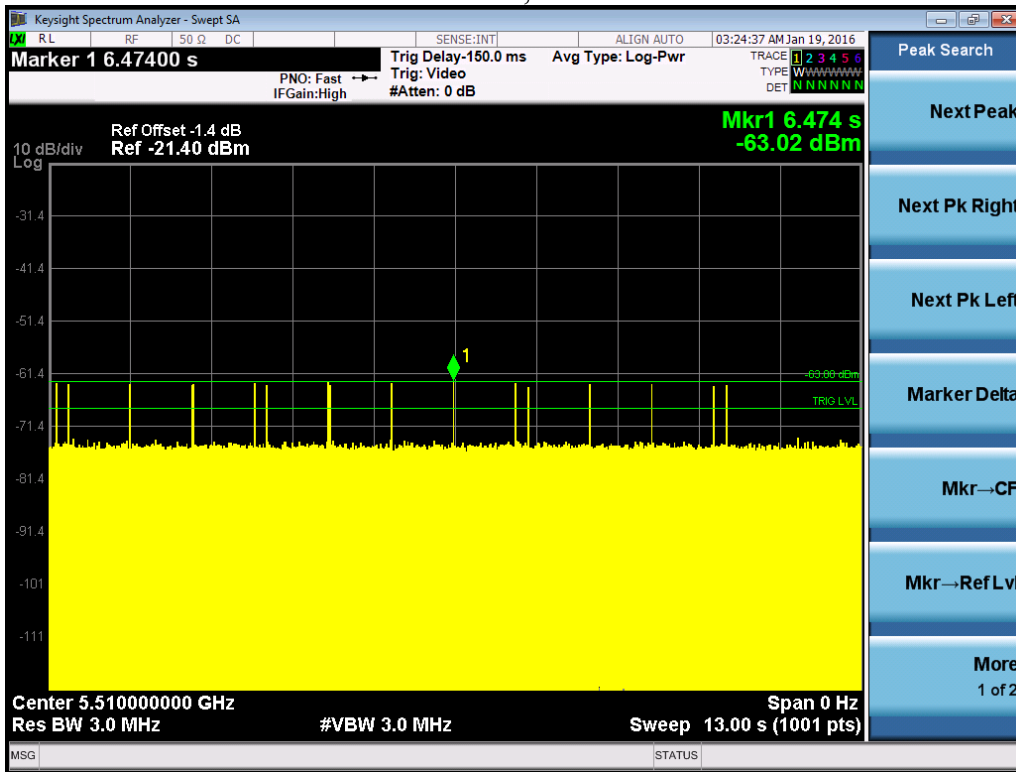
5510MHz, Radar 3



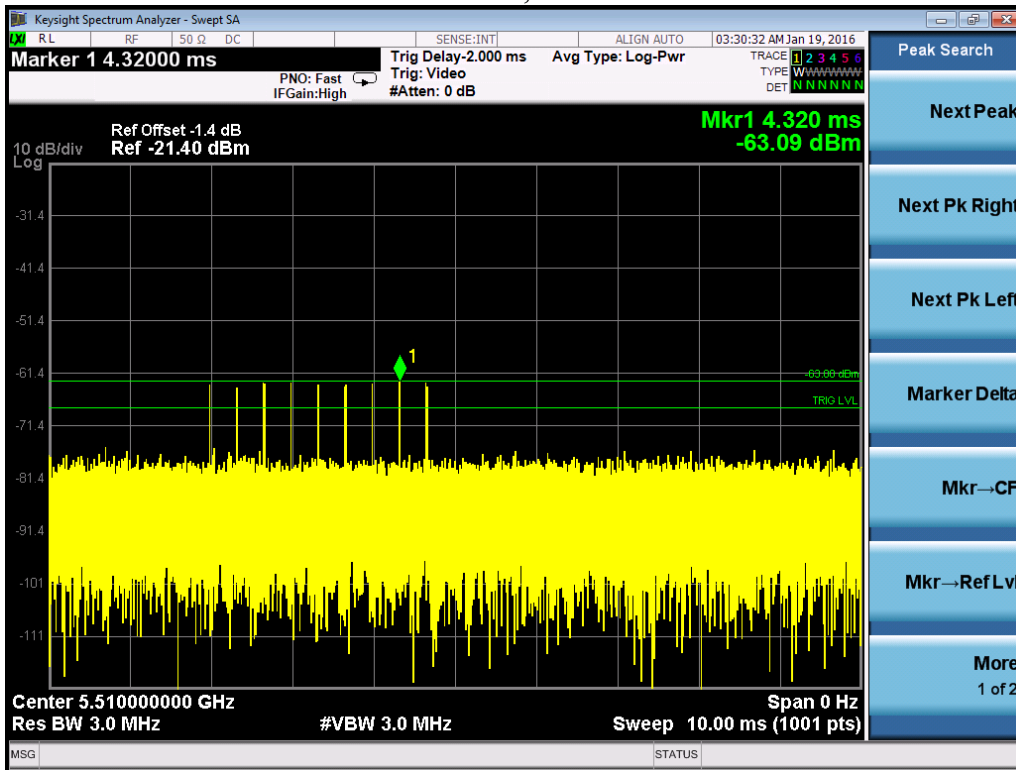
5510MHz, Radar 4



5510MHz, Radar 5



5510MHz, Radar 6



4 UNII Detection Bandwidth

All UNII 20 MHz channels for this device have identical Channel bandwidths, and all 40 MHz channels have identical Channel bandwidths. Therefore, all DFS testing was done at 5500 MHz and 5510MHz. The 99% channel bandwidth for 20MHz signals is 17.872MHz, the 99% channel bandwidth for 40MHz signals is 36.914MHz. (See the 26dB BW section of the RF report for further measurement details).

The generating equipment is configured as shown in the Conducted Test Setup above. A single Burst of the desired radar profile is produced at 5500MHz and 5510MHz at a -63dBm level. The UUT is set up as a standalone device (no associated Client and no traffic).

A single radar Burst is generated for a minimum of 10 trials, and the response of the UUT is noted. The UUT must detect the Radar Waveform 90% or more of the time. The radar frequency is increased in 1 MHz steps, repeating the above test sequence, until the detection rate falls below 90%. The highest frequency at which detection is greater than or equal to 90% is denoted as F_H.

The radar frequency is decreased in 1 MHz steps, repeating the above test sequence, until the detection rate falls below 90%. The lowest frequency at which detection is greater than or equal to 90% is denoted as F_L.

The U-NII Detection Bandwidth is calculated as follows:

$$\text{U-NII Detection Bandwidth} = F_H - F_L$$

The U-NII Detection Bandwidth must be at least 100% of the UUT transmitter 99% power bandwidth (20 MHz for 20MHz signals, 40 MHz for 40 MHz signals), otherwise, the UUT does not comply with DFS requirements.

For the chirped Bin 5 radar, the U-NII Detection Bandwidth must be at least 80% of the UUT transmitter 99% power bandwidth (16 MHz for 20MHz signals, 32 MHz for 40 MHz signals), otherwise, the UUT does not comply with DFS requirements.



UNII Detection Bandwidth Results:

20 MHz Signal Bandwidth											
EUT Frequency = 5500MHz											
Radar Frequency (MHz)	DFS Detection Trials (1=Detection, Blank= No Detection)										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5489 Fl	1	1	1	1	1	1	1	1	1	1	100%
5490	1	1	1	1	1	1	1	1	1	1	100%
5491	1	1	1	1	1	1	1	1	1	1	100%
5492	1	1	1	1	1	1	1	1	1	1	100%
5493	1	1	1	1	1	1	1	1	1	1	100%
5494	1	1	1	1	1	1	1	1	1	1	100%
5495	1	1	1	1	1	1	1	1	1	1	100%
5496	1	1	1	1	1	1	1	1	1	1	100%
5497	1	1	1	1	1	1	1	1	1	1	100%
5498	1	1	1	1	1	1	1	1	1	1	100%
5499	1	1	1	1	1	1	1	1	1	1	100%
5500	1	1	1	1	1	1	1	1	1	1	100%
5501	1	1	1	1	1	1	1	1	1	1	100%
5502	1	1	1	1	1	1	1	1	1	1	100%
5503	1	1	1	1	1	1	1	1	1	1	100%
5504	1	1	1	1	1	1	1	1	1	1	100%
5505	1	1	1	1	1	1	1	1	1	1	100%
5506	1	1	1	1	1	1	1	1	1	1	100%
5507	1	1	1	1	1	1	1	1	1	1	100%
5508	1	1	1	1	1	1	1	1	1	1	100%
5509	1	1	1	1	1	1	1	1	1	1	100%
5510	1	1	1	1	1	1	1	1	1	1	100%
5511 Fh	1	1	1	1	1	1	1	1	1	1	100%
20 MHz Detection Bandwidth = Fh-Fl = 5510MHz - 5490MHz = 20MHz											
EUT 99% Bandwidth = 17.872MHz											
17.811MHz × 80% =14.2976MHz											

40 MHz Signal Bandwidth											
EUT Frequency = 5510MHz											
Radar Frequency (MHz)	DFS Detection Trials (1=Detection, Blank= No Detection)										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5489	0	0	0	0	0	0	0	1	0	0	10%
5490 F1	1	1	1	1	1	1	1	1	1	1	100%
5491	1	1	1	1	1	1	1	1	1	1	100%
5492	1	1	1	1	1	1	1	1	1	1	100%
5493	1	1	1	1	1	1	1	1	1	1	100%
5494	1	1	1	1	1	1	1	1	1	1	100%
5495	1	1	1	1	1	1	1	1	1	1	100%
5496	1	1	1	1	1	1	1	1	1	1	100%
5497	1	1	1	1	1	1	1	1	1	1	100%
5498	1	1	1	1	1	1	1	1	1	1	100%
5499	1	1	1	1	1	1	1	1	1	1	100%
5500	1	1	1	1	1	1	1	1	1	1	100%
5501	1	1	1	1	1	1	1	1	1	1	100%
5502	1	1	1	1	1	1	1	1	1	1	100%
5503	1	1	1	1	1	1	1	1	1	1	100%
5504	1	1	1	1	1	1	1	1	1	1	100%
5505	1	1	1	1	1	1	1	1	1	1	100%
5506	1	1	1	1	1	1	1	1	1	1	100%
5507	1	1	1	1	1	1	1	1	1	1	100%
5508	1	1	1	1	1	1	1	1	1	1	100%
5509	1	1	1	1	1	1	1	1	1	1	100%
5510	1	1	1	1	1	1	1	1	1	1	100%
5511	1	1	1	1	1	1	1	1	1	1	100%
5512	1	1	1	1	1	1	1	1	1	1	100%
5513	1	1	1	1	1	1	1	1	1	1	100%
5514	1	1	1	1	1	1	1	1	1	1	100%
5515	1	1	1	1	1	1	1	1	1	1	100%
5516	1	1	1	1	1	1	1	1	1	1	100%
5517	1	1	1	1	1	1	1	1	1	1	100%
5518	1	1	1	1	1	1	1	1	1	1	100%
5519	1	1	1	1	1	1	1	1	1	1	100%

5520	1	1	1	1	1	1	1	1	1	1	100%
5521	1	1	1	1	1	1	1	1	1	1	100%
5522	1	1	1	1	1	1	1	1	1	1	100%
5523	1	1	1	1	1	1	1	1	1	1	100%
5524	1	1	1	1	1	1	1	1	1	1	100%
5525	1	1	1	1	1	1	1	1	1	1	100%
5526	1	1	1	1	1	1	1	1	1	1	100%
5527	1	1	1	1	1	1	1	1	1	1	100%
5528	1	1	1	1	1	1	1	1	1	1	100%
5529	1	1	1	1	1	1	1	1	1	1	100%
5530 Fh	1	1	1	1	1	1	1	1	1	1	100%
5531	0	0	0	0	0	0	0	0	0	0	0%
40 MHz Detection Bandwidth = Fh-Fl = 5530MHz - 5490MHz = 40MHz											
EUT 99% Bandwidth = 36.914MHz											
37.3595MHz × 80% = 29.5312MHz											

5 Channel Available Check

5.1 Initial Channel Availability Check Time

The tests that the UUT does not emit beacon, control, or data signals on the test Channel until the power-up sequence has been completed and the U-NII device checks for Radar Waveforms for one minute on the test Channel. This test does not use any Radar Waveforms.

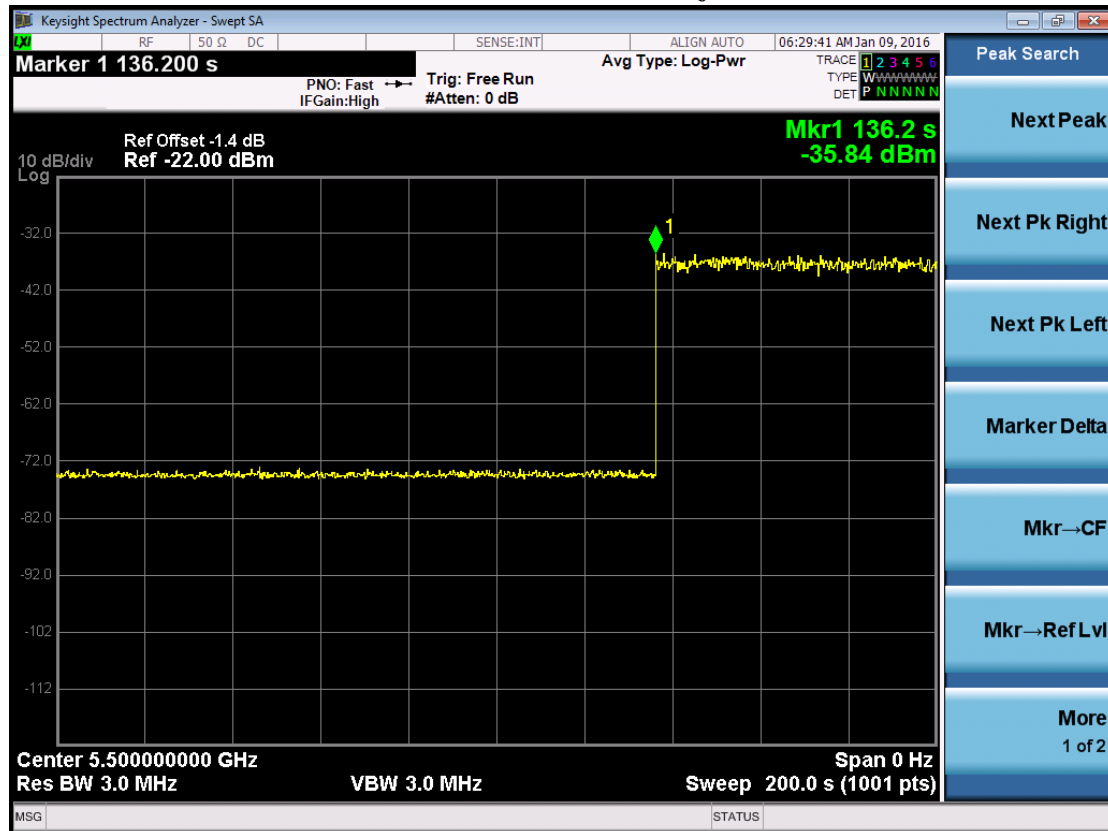
The U-NII device is powered on and instructed to operate at 5500 MHz and 5510MHz. At the same time the UUT is powered on, the spectrum analyzer is set to zero span mode with a 3 MHz resolution bandwidth at 5500MHz and 5510MHz with a 2.5 minute sweep time. The analyzer's sweep will be started the same time power is applied to the U-NII device.

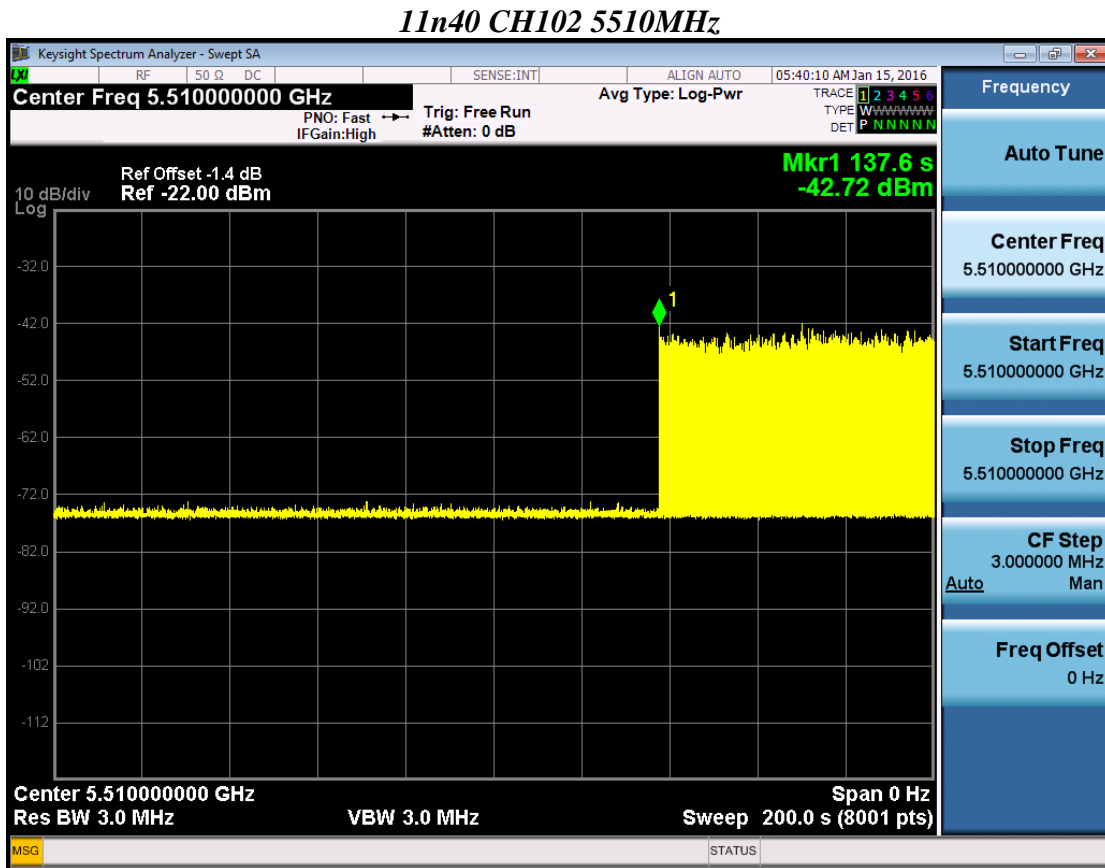
The UUT should not transmit any beacon or data transmissions until at least 1 minute after the completion of the power-on cycle.

The initial power up time of the UUT is indicated by marker 1 in the plot. Initial beacons/data transmissions are indicated by marker 1R.

Initial Channel Availability Check Time

11a CH100 5500MHz





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

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 (-63dBm) occurs at the beginning of the Channel Availability Check Time.

The UUT is powered on at T0. T1 denotes the instant when the UUT has completed its power-up sequence. The Channel Availability Check Time commences at instant T1 and will end no sooner than T1 + 60 seconds.

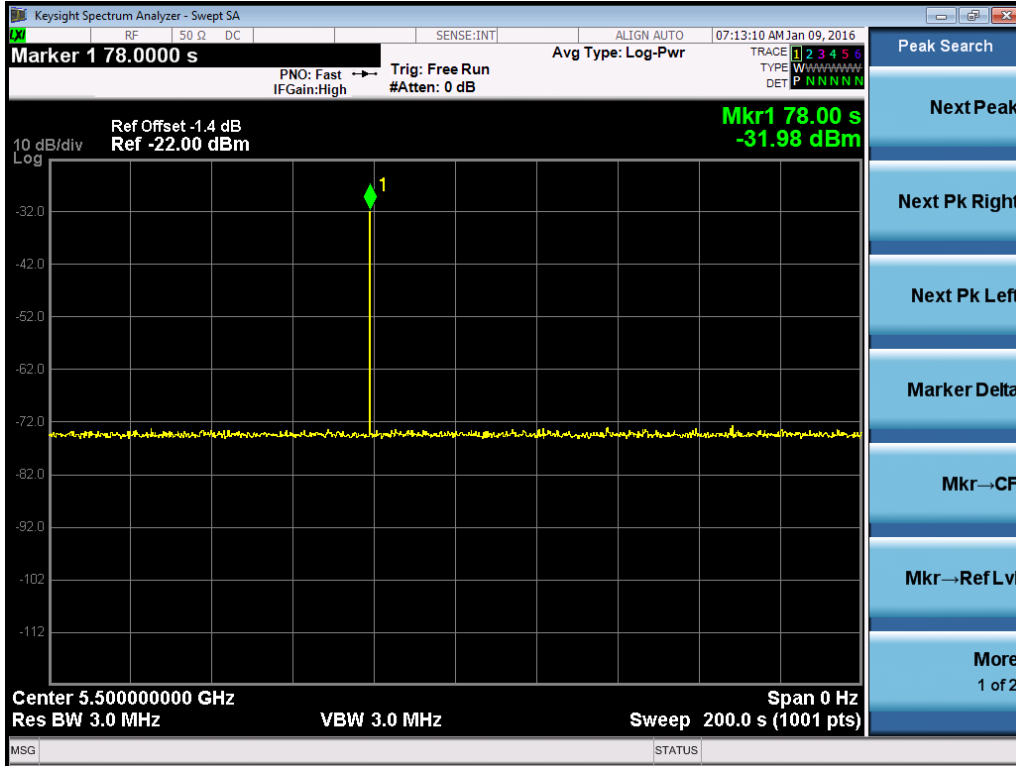
A single Burst of short pulse of radar type 1 at -63 dBm will commence within a 6 second window starting at T1.

Visual indication on the UUT of successful detection of the radar Burst will be recorded and reported. Observation of emissions at 5500MHz and 5510MHz will continue for 2.5 minutes after the radar Burst has been generated.

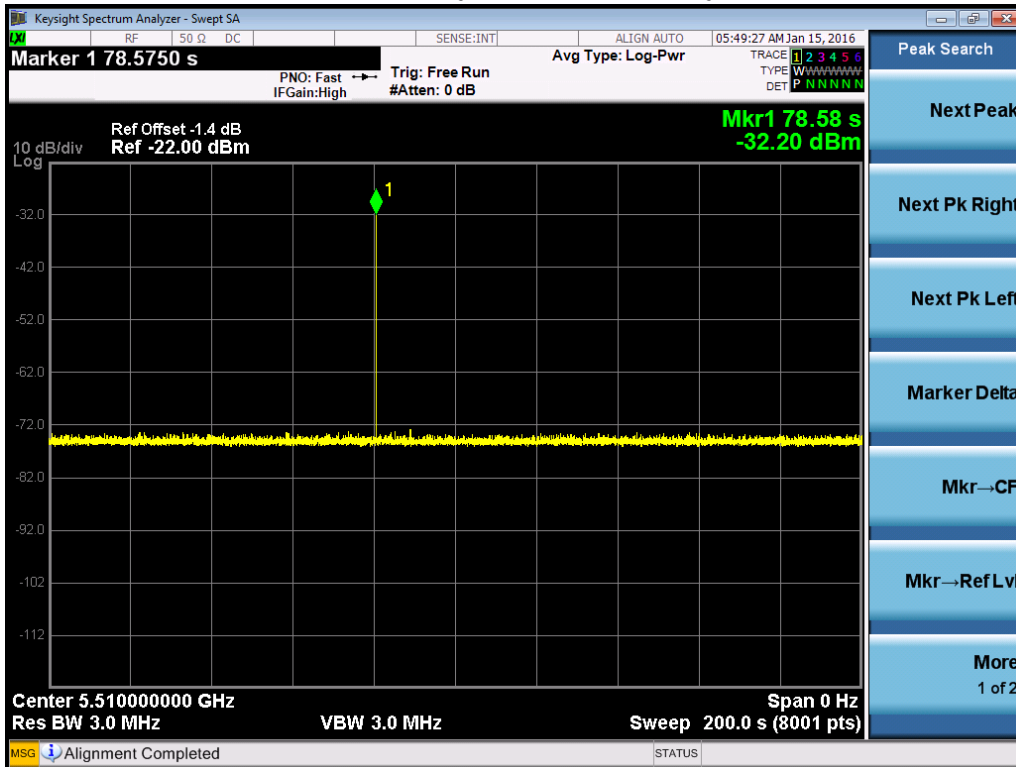
Verify that during the 2.5 minute measurement window no UUT transmissions occurred at 5500MHz and 5510MHz.

Radar Burst at the Beginning of the Channel Availability Check Time

11a CH 100 5500MHz



11n40MHz CH 102 5510MHz



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

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 (-63dBm) occurs at the end of the Channel Availability Check Time.

The UUT is powered on at T0. T1 denotes the instant when the UUT has completed its power-up sequence. The Channel Availability Check Time commences at instant T1 and will end no sooner than T1 + 60 seconds.

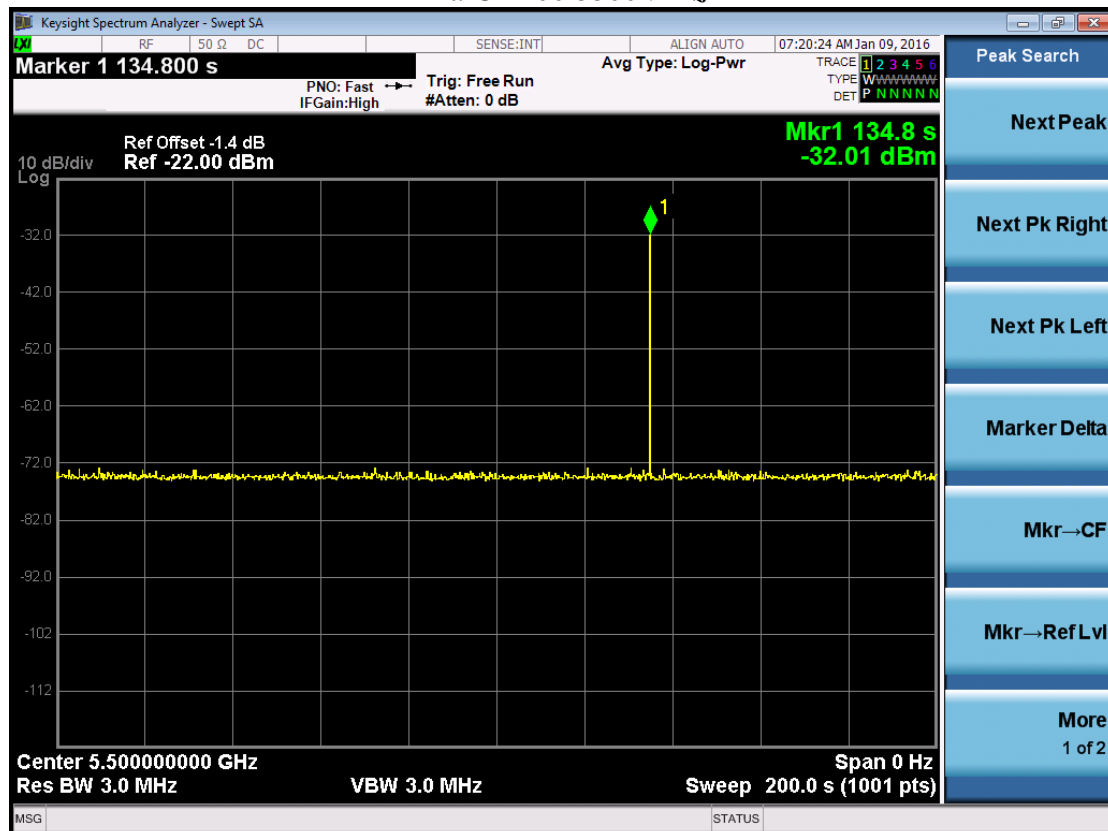
A single Burst of short pulse of radar type 1 at -63 dBm will commence within a 6 second window starting at T1+ 54 seconds.

Visual indication on the UUT of successful detection of the radar Burst will be recorded and reported. Observation of emissions at 5500MHz and 5510MHz will continue for 2.5 minutes after the radar Burst has been generated.

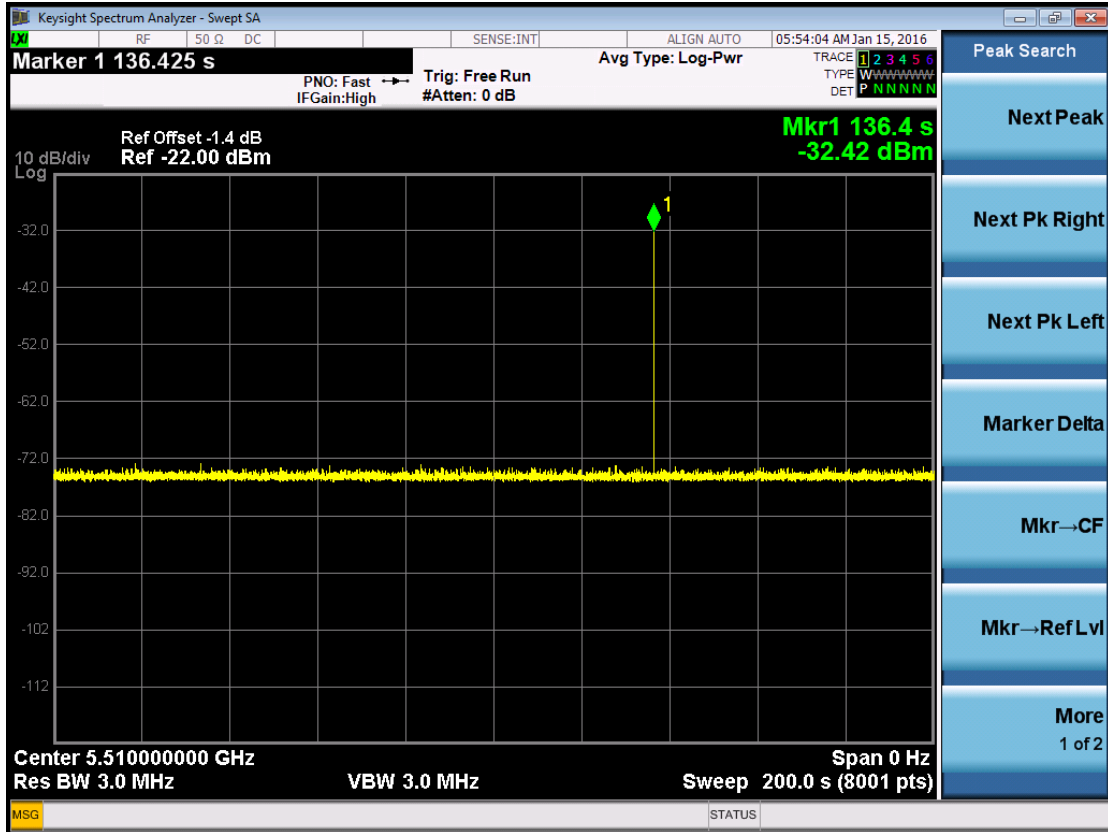
Verify that during the 2.5 minute measurement window no UUT transmissions occurred at 5500MHz and 5510MHz.

Radar Burst at the End of the Channel Availability Check Time

11a CH100 5500MHz



11n40MHz CH 102 5510MHz



6 In-Service Monitoring for Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period

These tests define how the following DFS parameters are verified during In-Service Monitoring; Channel Closing Transmission Time, Channel Move Time, and Non-Occupancy Period.

The steps below define the procedure to determine the above mentioned parameters when a radar Burst with a level equal to the DFS Detection Threshold + 1dB (-63dBm) is generated on the Operating Channel of the U-NII device.

A U-NII device operating as a Client Device will associate with the UUT (Master) at 5500 MHz and 5510MHz. Stream the MPEG test file from the Master Device to the Client Device on the selected Channel for the entire period of the test.

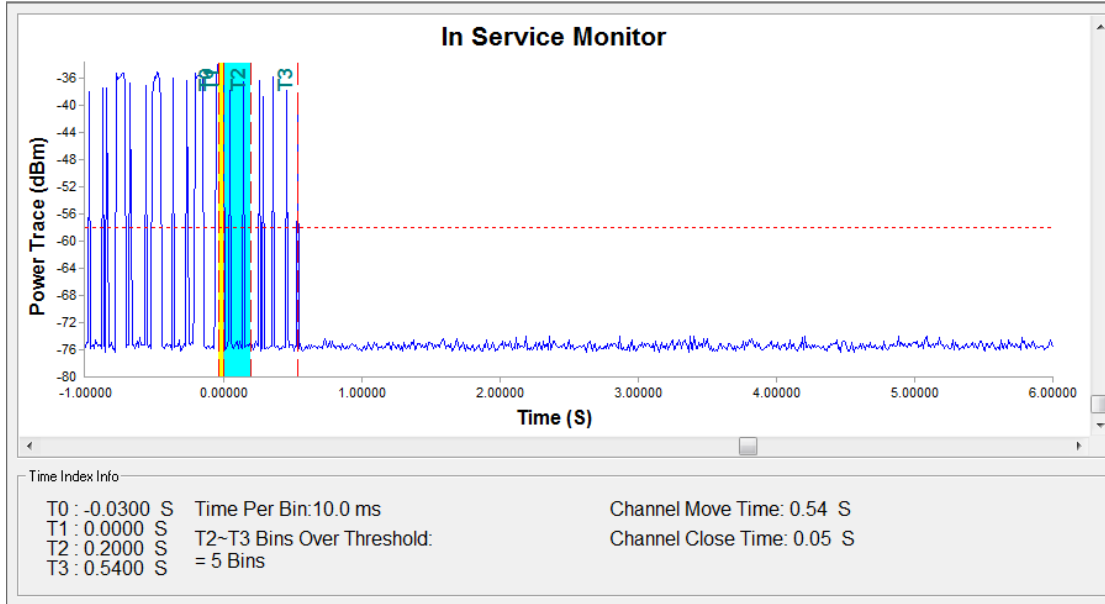
At time T0 the Radar Waveform generator sends a Burst of pulses for each of the radar types at -63dBm.

Observe the transmissions of the UUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). Compare the Channel Move Time and Channel Closing Transmission Time results to the limits defined in the DFS Response requirement values table.

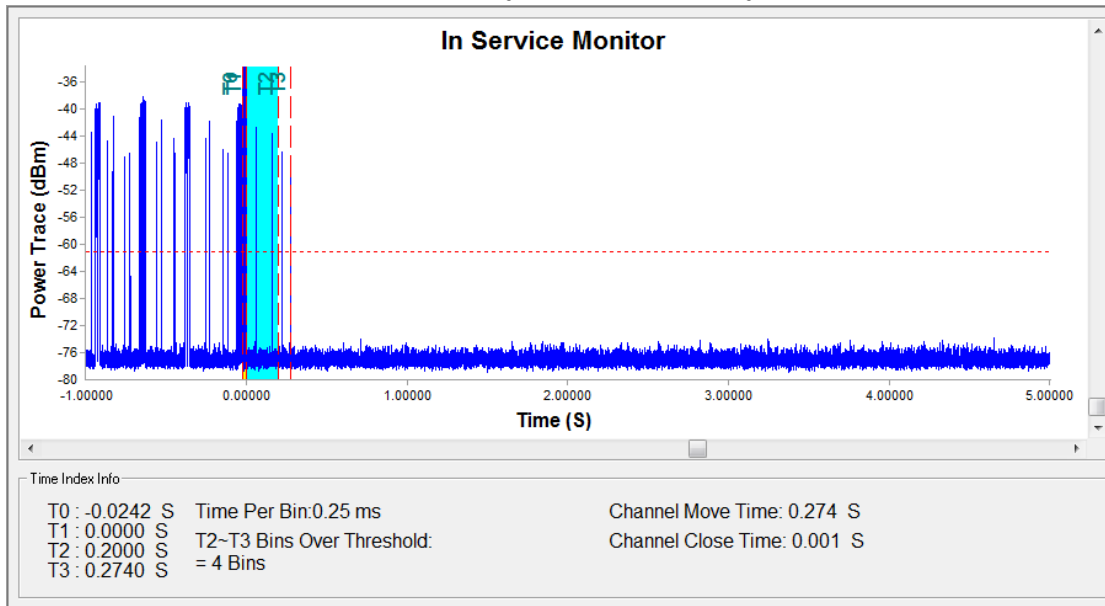
Type 1 radar was used for these test.

6.1 Channel Move Time, Channel Closing Transmission Time

11a CH 100 5500MHz



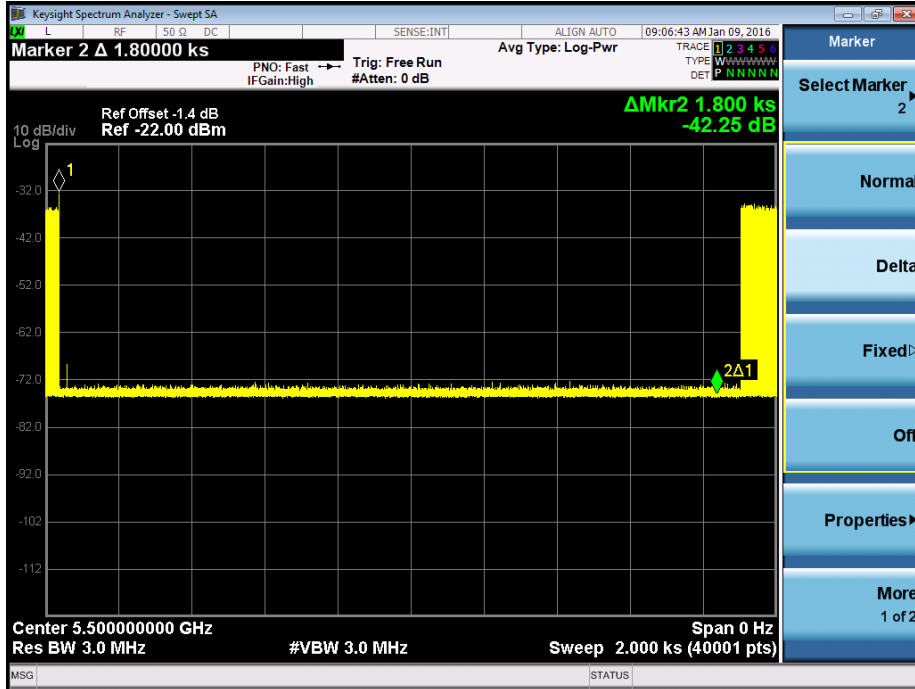
11n40MHz CH102 5510MHz



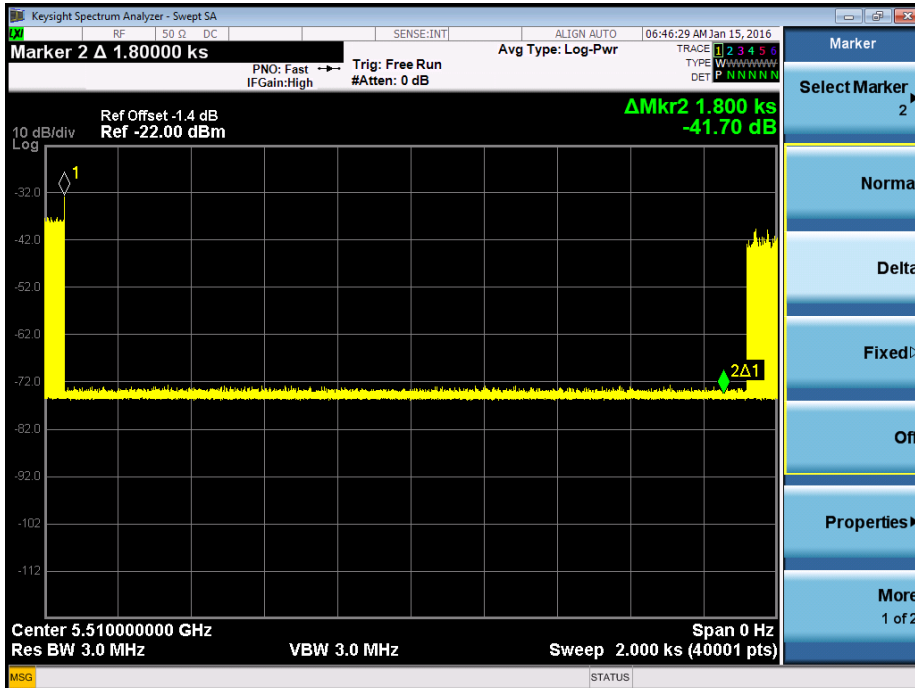
Test Item	Limit	Results
Channel Move Time	10 s	Pass
Channel Closing Transmission Time	200ms + an aggregate of 60ms over remaining 10 second period.	Pass

6.2 Non-Occupancy Period

11a CH 100 5500MHz



11n40MHz CH102 5510MHz



Test Item	Limit	Results
Non-Occupancy Period	30 minutes	Pass

7 Statistical Performance Check

A U-NII device operating as a Client Device associates with the UUT (Master) at 5500MHz&5510MHz. Stream the MPEG test file from the Master Device to the Client Device on the selected Channel for the entire period of the test. The device can also utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trial runs.

The Radar Waveform generator sends the individual waveform for each of radar type 1~6 with a level equal to the DFS detection threshold level + 1dB (-63dBm). Statistical data will be gathered to determine the ability of the device to detect the radar test waveforms. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trial runs. The percentage of successful detection is calculated by:

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

The Minimum number of trails, minimum percentage of successful detection and the average minimum percentage of successful detection are found in the Radar Test Waveforms section. The following results reflect both 20 MHz and 40 MHz Channel Bandwidth operation.



7.1 Test Result for 20MHz bandwidth

11a CH100 5500MHz

Type 1A/1B Radar Statistical Performance:

Radar Type	Trial #	Frequency (MHz)	Pluse Width (us)	PRI(us)	Number Pluse per Burst	1=Detection 0=No Detection
1	1	5490	1	938	57	0
1	2	5491	1	698	76	1
1	3	5492	1	618	86	1
1	4	5493	1	538	99	1
1	5	5494	1	878	61	0
1	6	5495	1	3066	18	1
1	7	5496	1	638	83	1
1	8	5497	1	918	58	1
1	9	5498	1	838	63	1
1	10	5499	1	858	62	1
1	11	5500	1	798	67	1
1	12	5501	1	718	74	1
1	13	5502	1	578	92	1
1	14	5503	1	598	89	1
1	15	5504	1	558	95	1
1	16	5505	1	2536	21	1
1	17	5506	1	966	55	1
1	18	5507	1	827	64	0
1	19	5508	1	2501	22	1
1	20	5509	1	2595	21	1
1	21	5510	1	1114	48	1
1	22	5490	1	1302	41	1
1	23	5491	1	3045	18	1
1	24	5492	1	1624	33	1
1	25	5493	1	2878	19	1
1	26	5500	1	1027	52	1
1	27	5510	1	2485	22	1
1	28	5509	1	1600	33	1
1	29	5508	1	1172	46	1
1	30	5507	1	1177	45	1
Detection Percentage=90%						Limit: >60%



Type 2 Radar Statistical Performance:

Radar Type	Trial #	Frequency (MHz)	Pluse Width (us)	PRI(us)	Number Pluse per Burst	1=Detection 0=No Detection
2	1	5490	3.2	179	26	1
2	2	5491	1.1	207	23	1
2	3	5492	2.1	230	24	0
2	4	5493	4.8	200	29	1
2	5	5494	3.9	214	28	1
2	6	5495	2.9	222	26	1
2	7	5496	3.2	204	26	1
2	8	5497	2.5	192	25	1
2	9	5498	3.1	164	26	1
2	10	5499	1.2	156	23	1
2	11	5500	3.9	210	27	1
2	12	5501	4.6	201	29	1
2	13	5502	3.2	162	26	0
2	14	5503	2.2	197	25	1
2	15	5504	4.5	163	29	1
2	16	5505	3	203	26	1
2	17	5506	5	168	29	0
2	18	5507	2.4	217	25	1
2	19	5508	2.9	191	26	1
2	20	5509	2.3	166	25	1
2	21	5510	3.7	150	27	1
2	22	5490	2.2	176	25	1
2	23	5491	4.9	195	29	1
2	24	5492	2.9	202	26	1
2	25	5493	2.5	178	25	0
2	26	5500	1.1	206	23	1
2	27	5510	3.8	155	27	1
2	28	5509	4.7	157	29	1
2	29	5508	2.4	224	25	1
2	30	5507	4.2	159	28	1
Detection Percentage=86.7% Limit: >60%						

Type 3 Radar Statistical Performance:

Radar Type	Trial #	Frequency (MHz)	Pluse Width (us)	PRI(us)	Number Pluse per Burst	1=Detection 0=No Detection
3	1	5490	8.2	355	17	1
3	2	5491	6.1	487	16	1
3	3	5492	7.1	344	16	1
3	4	5493	9.8	288	18	1
3	5	5494	8.9	230	18	1
3	6	5495	7.9	432	17	1
3	7	5496	8.2	207	17	0
3	8	5497	7.5	443	17	0
3	9	5498	8.1	439	17	1
3	10	5499	6.2	223	16	1
3	11	5500	8.9	208	18	1
3	12	5501	9.6	463	18	1
3	13	5502	8.2	441	17	1
3	14	5503	7.2	323	16	1
3	15	5504	9.5	297	18	1
3	16	5505	8	412	17	1
3	17	5506	10	324	18	1
3	18	5507	7.4	271	17	1
3	19	5508	7.9	349	17	1
3	20	5509	7.3	409	16	1
3	21	5510	8.7	373	18	1
3	22	5490	7.2	254	16	1
3	23	5491	9.9	274	18	1
3	24	5492	7.9	278	17	1
3	25	5493	7.5	317	17	1
3	26	5500	6.1	260	16	1
3	27	5510	8.8	211	18	0
3	28	5509	9.7	272	18	1
3	29	5508	7.4	264	17	1
3	30	5507	9.2	284	18	1

Detection Percentage=90% Limit: >60%



Type 4 Radar Statistical Performance:

Radar Type	Trial #	Frequency (MHz)	Pulse Width (us)	PRI(us)	Number Pulse per Burst	1=Detection 0=No Detection
4	1	5490	16	355	14	1
4	2	5491	11.3	487	12	1
4	3	5492	13.5	344	13	1
4	4	5493	19.4	288	16	1
4	5	5494	17.5	230	15	1
4	6	5495	15.3	432	14	1
4	7	5496	15.9	207	14	1
4	8	5497	14.3	443	13	1
4	9	5498	15.8	439	14	1
4	10	5499	11.5	223	12	1
4	11	5500	17.4	208	15	1
4	12	5501	19	463	16	1
4	13	5502	16	441	14	1
4	14	5503	13.8	323	13	1
4	15	5504	18.9	297	16	1
4	16	5505	15.5	412	14	0
4	17	5506	19.9	324	16	0
4	18	5507	14.1	271	13	1
4	19	5508	15.2	349	14	1
4	20	5509	13.8	409	13	1
4	21	5510	17.1	373	15	1
4	22	5490	13.8	254	13	1
4	23	5491	19.8	274	16	1
4	24	5492	15.3	278	14	1
4	25	5493	14.5	317	13	1
4	26	5500	11.3	260	12	1
4	27	5510	17.3	211	15	1
4	28	5509	19.2	272	16	0
4	29	5508	14.2	264	13	0
4	30	5507	18.2	284	15	1
Detection Percentage=86.7%						Limit: >60%

In addition an average minimum percentage of successful detection across all four Short pulse radar test waveforms is required and is calculated as follows:

$$\frac{Pa1 + Pa2 + Pa3 + Pa4}{4} = \frac{(90\%+86.7\%+90\%+86.7\%)}{4} = \mathbf{88.35\%} (>80\%)$$



Type 5 Radar Statistical Performance:

Radar Type	Trial #	Frequency (MHz)	File name	1=Detection 0=No Detection
5	1	5492	Radar_Type_5_1_trail	1
5	2	5493	Radar_Type_5_2_trail	1
5	3	5494	Radar_Type_5_3_trail	1
5	4	5495	Radar_Type_5_4_trail	1
5	5	5496	Radar_Type_5_5_trail	1
5	6	5497	Radar_Type_5_6_trail	1
5	7	5498	Radar_Type_5_7_trail	1
5	8	5499	Radar_Type_5_8_trail	1
5	9	5500	Radar_Type_5_9_trail	1
5	10	5501	Radar_Type_5_10_trail	1
5	11	5502	Radar_Type_5_11_trail	1
5	12	5503	Radar_Type_5_12_trail	1
5	13	5504	Radar_Type_5_13_trail	1
5	14	5505	Radar_Type_5_14_trail	1
5	15	5506	Radar_Type_5_15_trail	1
5	16	5507	Radar_Type_5_16_trail	1
5	17	5508	Radar_Type_5_17_trail	1
5	18	5492	Radar_Type_5_18_trail	1
5	19	5493	Radar_Type_5_19_trail	1
5	20	5494	Radar_Type_5_20_trail	1
5	21	5495	Radar_Type_5_21_trail	1
5	22	5496	Radar_Type_5_22_trail	1
5	23	5497	Radar_Type_5_23_trail	1
5	24	5500	Radar_Type_5_24_trail	1
5	25	5503	Radar_Type_5_25_trail	1
5	26	5504	Radar_Type_5_26_trail	1
5	27	5505	Radar_Type_5_27_trail	1
5	28	5506	Radar_Type_5_28_trail	1
5	29	5507	Radar_Type_5_29_trail	1
5	30	5508	Radar_Type_5_30_trail	1
Detection Percentage=100%				Limit: >80%

Note: See the Radar Characteristics at section 7.3 of this report.



Type 6 Radar Statistical Performance:

Radar Type	Trial #	Frequency (MHz)	File name	1=Detection 0=No Detection
6	1	5490	Radar_Type_6_1_trail	1
6	2	5491	Radar_Type_6_2_trail	1
6	3	5492	Radar_Type_6_3_trail	1
6	4	5493	Radar_Type_6_4_trail	1
6	5	5494	Radar_Type_6_5_trail	1
6	6	5495	Radar_Type_6_6_trail	1
6	7	5496	Radar_Type_6_7_trail	1
6	8	5497	Radar_Type_6_8_trail	1
6	9	5498	Radar_Type_6_9_trail	1
6	10	5499	Radar_Type_6_10_trail	1
6	11	5500	Radar_Type_6_11_trail	1
6	12	5501	Radar_Type_6_12_trail	1
6	13	5502	Radar_Type_6_13_trail	0
6	14	5503	Radar_Type_6_14_trail	0
6	15	5504	Radar_Type_6_15_trail	1
6	16	5505	Radar_Type_6_16_trail	1
6	17	5506	Radar_Type_6_17_trail	0
6	18	5507	Radar_Type_6_18_trail	1
6	19	5508	Radar_Type_6_19_trail	1
6	20	5509	Radar_Type_6_20_trail	1
6	21	5510	Radar_Type_6_21_trail	1
6	22	5490	Radar_Type_6_22_trail	1
6	23	5491	Radar_Type_6_23_trail	0
6	24	5492	Radar_Type_6_24_trail	1
6	25	5493	Radar_Type_6_25_trail	1
6	26	5500	Radar_Type_6_26_trail	1
6	27	5510	Radar_Type_6_27_trail	1
6	28	5509	Radar_Type_6_28_trail	1
6	29	5508	Radar_Type_6_29_trail	1
6	30	5507	Radar_Type_6_30_trail	1
Detection Percentage=86.7%				Limit: >70%

Note: See the Radar Characteristics at section 7.3 of this report.



7.2 Test Result for 40MHz bandwidth

11n40 CH100 5510MHz

Type 1A/1B Radar Statistical Performance:

Radar Type	Trial #	Frequency (MHz)	Pluse Width (us)	PRI(us)	Number Pluse per Burst	1=Detection 0=No Detection
1	1	5491	1	938	57	1
1	2	5492	1	698	76	1
1	3	5494	1	618	86	1
1	4	5495	1	538	99	1
1	5	5497	1	878	61	1
1	6	5498	1	3066	18	1
1	7	5499	1	638	83	1
1	8	5500	1	918	58	1
1	9	5502	1	838	63	1
1	10	5504	1	858	62	1
1	11	5505	1	798	67	1
1	12	5506	1	718	74	1
1	13	5507	1	578	92	1
1	14	5509	1	598	89	1
1	15	5510	1	558	95	1
1	16	5511	1	2536	21	1
1	17	5512	1	966	55	1
1	18	5513	1	827	64	1
1	19	5515	1	2501	22	1
1	20	5516	1	2595	21	1
1	21	5517	1	1114	48	1
1	22	5519	1	1302	41	1
1	23	5520	1	3045	18	1
1	24	5521	1	1624	33	1
1	25	5523	1	2878	19	1
1	26	5524	1	1027	52	1
1	27	5525	1	2485	22	1
1	28	5527	1	1600	33	1
1	29	5528	1	1172	46	1
1	30	5529	1	1177	45	1
Detection Percentage=100%						Limit: >60%

Type 2 Radar Statistical Performance:

Radar Type	Trial #	Frequency (MHz)	Pulse Width (us)	PRI(us)	Number Pulse per Burst	1=Detection 0=No Detection
2	1	5491	3.2	179	26	1
2	2	5492	1.1	207	23	1
2	3	5494	2.1	230	24	1
2	4	5495	4.8	200	29	1
2	5	5497	3.9	214	28	1
2	6	5498	2.9	222	26	0
2	7	5499	3.2	204	26	1
2	8	5500	2.5	192	25	1
2	9	5502	3.1	164	26	1
2	10	5504	1.2	156	23	1
2	11	5505	3.9	210	27	1
2	12	5506	4.6	201	29	1
2	13	5507	3.2	162	26	0
2	14	5509	2.2	197	25	1
2	15	5510	4.5	163	29	1
2	16	5511	3	203	26	1
2	17	5512	5	168	29	1
2	18	5513	2.4	217	25	1
2	19	5515	2.9	191	26	1
2	20	5516	2.3	166	25	1
2	21	5517	3.7	150	27	1
2	22	5519	2.2	176	25	1
2	23	5520	4.9	195	29	1
2	24	5521	2.9	202	26	1
2	25	5523	2.5	178	25	1
2	26	5524	1.1	206	23	1
2	27	5525	3.8	155	27	1
2	28	5527	4.7	157	29	0
2	29	5528	2.4	224	25	1
2	30	5529	4.2	159	28	1
Detection Percentage=90%						Limit: >60%



Type 3 Radar Statistical Performance:

Radar Type	Trial #	Frequency (MHz)	Pluse Width (us)	PRI(us)	Number Pluse per Burst	1=Detection 0=No Detection
3	1	5491	8.2	355	17	1
3	2	5492	6.1	487	16	1
3	3	5494	7.1	344	16	1
3	4	5495	9.8	288	18	1
3	5	5497	8.9	230	18	1
3	6	5498	7.9	432	17	1
3	7	5499	8.2	207	17	1
3	8	5500	7.5	443	17	1
3	9	5502	8.1	439	17	1
3	10	5504	6.2	223	16	0
3	11	5505	8.9	208	18	1
3	12	5506	9.6	463	18	1
3	13	5507	8.2	441	17	1
3	14	5509	7.2	323	16	1
3	15	5510	9.5	297	18	1
3	16	5511	8	412	17	1
3	17	5512	10	324	18	0
3	18	5513	7.4	271	17	1
3	19	5515	7.9	349	17	1
3	20	5516	7.3	409	16	1
3	21	5517	8.7	373	18	1
3	22	5519	7.2	254	16	1
3	23	5520	9.9	274	18	1
3	24	5521	7.9	278	17	1
3	25	5523	7.5	317	17	1
3	26	5524	6.1	260	16	1
3	27	5525	8.8	211	18	1
3	28	5527	9.7	272	18	1
3	29	5528	7.4	264	17	1
3	30	5529	9.2	284	18	1
Detection Percentage=93.3% Limit: >60%						



Type 4 Radar Statistical Performance:

Radar Type	Trial #	Frequency (MHz)	Pulse Width (us)	PRI(us)	Number Pulse per Burst	1=Detection 0=No Detection
4	1	5491	16	355	14	1
4	2	5492	11.3	487	12	1
4	3	5494	13.5	344	13	1
4	4	5495	19.4	288	16	1
4	5	5497	17.5	230	15	1
4	6	5498	15.3	432	14	1
4	7	5499	15.9	207	14	0
4	8	5500	14.3	443	13	1
4	9	5502	15.8	439	14	1
4	10	5504	11.5	223	12	1
4	11	5505	17.4	208	15	1
4	12	5506	19	463	16	1
4	13	5507	16	441	14	1
4	14	5509	13.8	323	13	1
4	15	5510	18.9	297	16	1
4	16	5511	15.5	412	14	1
4	17	5512	19.9	324	16	0
4	18	5513	14.1	271	13	1
4	19	5515	15.2	349	14	1
4	20	5516	13.8	409	13	0
4	21	5517	17.1	373	15	1
4	22	5519	13.8	254	13	1
4	23	5520	19.8	274	16	1
4	24	5521	15.3	278	14	1
4	25	5523	14.5	317	13	1
4	26	5524	11.3	260	12	1
4	27	5525	17.3	211	15	1
4	28	5527	19.2	272	16	1
4	29	5528	14.2	264	13	1
4	30	5529	18.2	284	15	0
Detection Percentage=86.7%						Limit: >60%

In addition an average minimum percentage of successful detection across all four Short pulse radar test waveforms is required and is calculated as follows:

$$\frac{Pa1 + Pa2 + Pa3 + Pa4}{4} = (100\%+90\%+93.3\%+86.7\%)/4 = \mathbf{92.5\% (>80\%)}$$

Type 5 Radar Statistical Performance:

Radar Type	Trial #	Frequency (MHz)	File name	1=Detection 0=No Detection
5	1	5495	Radar_Type_5_1_trail	1
5	2	5496	Radar_Type_5_2_trail	1
5	3	5497	Radar_Type_5_3_trail	1
5	4	5498	Radar_Type_5_4_trail	1
5	5	5499	Radar_Type_5_5_trail	1
5	6	5500	Radar_Type_5_6_trail	1
5	7	5501	Radar_Type_5_7_trail	1
5	8	5502	Radar_Type_5_8_trail	1
5	9	5503	Radar_Type_5_9_trail	1
5	10	5504	Radar_Type_5_10_trail	1
5	11	5505	Radar_Type_5_11_trail	1
5	12	5506	Radar_Type_5_12_trail	1
5	13	5507	Radar_Type_5_13_trail	1
5	14	5508	Radar_Type_5_14_trail	1
5	15	5510	Radar_Type_5_15_trail	1
5	16	5511	Radar_Type_5_16_trail	1
5	17	5512	Radar_Type_5_17_trail	1
5	18	5513	Radar_Type_5_18_trail	0
5	19	5514	Radar_Type_5_19_trail	1
5	20	5515	Radar_Type_5_20_trail	1
5	21	5516	Radar_Type_5_21_trail	1
5	22	5517	Radar_Type_5_22_trail	1
5	23	5518	Radar_Type_5_23_trail	1
5	24	5519	Radar_Type_5_24_trail	1
5	25	5520	Radar_Type_5_25_trail	1
5	26	5521	Radar_Type_5_26_trail	1
5	27	5522	Radar_Type_5_27_trail	1
5	28	5523	Radar_Type_5_28_trail	1
5	29	5524	Radar_Type_5_29_trail	1
5	30	5525	Radar_Type_5_30_trail	1
Detection Percentage=96.7%				Limit: >80%

Note: See the Radar Characteristics at section 7.4 of this report.



Type 6 Radar Statistical Performance:

Radar Type	Trial #	Frequency (MHz)	File name	1=Detection 0=No Detection
6	1	5491	Radar_Type_6_1_trail	1
6	2	5492	Radar_Type_6_2_trail	1
6	3	5494	Radar_Type_6_3_trail	1
6	4	5495	Radar_Type_6_4_trail	1
6	5	5497	Radar_Type_6_5_trail	1
6	6	5498	Radar_Type_6_6_trail	1
6	7	5499	Radar_Type_6_7_trail	1
6	8	5500	Radar_Type_6_8_trail	1
6	9	5502	Radar_Type_6_9_trail	1
6	10	5504	Radar_Type_6_10_trail	0
6	11	5505	Radar_Type_6_11_trail	1
6	12	5506	Radar_Type_6_12_trail	1
6	13	5507	Radar_Type_6_13_trail	1
6	14	5509	Radar_Type_6_14_trail	1
6	15	5510	Radar_Type_6_15_trail	1
6	16	5511	Radar_Type_6_16_trail	0
6	17	5512	Radar_Type_6_17_trail	1
6	18	5513	Radar_Type_6_18_trail	0
6	19	5515	Radar_Type_6_19_trail	1
6	20	5516	Radar_Type_6_20_trail	1
6	21	5517	Radar_Type_6_21_trail	1
6	22	5519	Radar_Type_6_22_trail	0
6	23	5520	Radar_Type_6_23_trail	1
6	24	5521	Radar_Type_6_24_trail	1
6	25	5523	Radar_Type_6_25_trail	1
6	26	5524	Radar_Type_6_26_trail	1
6	27	5525	Radar_Type_6_27_trail	1
6	28	5527	Radar_Type_6_28_trail	1
6	29	5528	Radar_Type_6_29_trail	1
6	30	5529	Radar_Type_6_30_trail	1
Detection Percentage=86.7%				Limit: >70%

Note: See the Radar Characteristics at section 7.4 of this report.

7.3 Radar Characteristics for 20MHz bandwidth

Radar_Type_5_1_trail											
Waveform Num = 1											
Num of Bursts = 11											
Burst Interval (us)= 1090909											
Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)	
1	713146	1	12	80	1535	0	0	713146	0	1090908	
2	1005499	2	6	60	1293	1809	0	1720180	1090909	2181817	
3	855976	1	11	60	1094	0	0	2579258	2181818	3272726	
4	1015901	3	11	95	1039	1801	1219	3596253	3272727	4363635	
5	1722571	3	9	55	1583	1099	1851	5322883	4363636	5454544	
6	458933	2	18	75	1281	1070	0	5786349	5454545	6545453	
7	1608308	3	9	85	1054	1985	1238	7397008	6545454	7636362	
8	1188158	3	7	85	1816	1123	1857	8589443	7636363	8727271	
9	907597	2	18	100	1163	1053	0	9501836	8727272	9818180	
10	1270405	3	6	65	1060	1540	1096	10774457	9818181	10909089	
11	747094	3	18	65	1218	1317	1326	11525247	10909090	11999998	
Total number of pulses in waveform = 26											

Radar_Type_5_2_trail											
Waveform Num = 2											
Num of Bursts = 12											
Burst Interval (us)= 1000000											
Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)	
1	718375	1	8	80	1854	0	0	718375	0	999999	
2	1149238	3	9	80	1249	1209	1635	1869467	1000000	1999999	
3	718465	1	13	70	1339	0	0	2592025	2000000	2999999	
4	1307089	3	9	95	1020	1732	1304	3900453	3000000	3999999	
5	134006	3	17	100	1934	1126	1034	4038515	4000000	4999999	
6	1057565	1	12	50	1128	0	0	5100174	5000000	5999999	
7	1718839	3	17	50	1666	1422	1418	6820141	6000000	6999999	
8	295356	3	15	75	1583	1973	1428	7120003	7000000	7999999	
9	928205	1	15	60	1076	0	0	8053192	8000000	8999999	
10	1364453	1	15	55	1346	0	0	9418721	9000000	9999999	
11	1307891	2	15	85	1487	1221	0	10727958	10000000	10999999	
12	307034	1	20	85	1952	0	0	11037700	11000000	11999999	
Total number of pulses in waveform = 23											

Radar_Type_5_3_trail

Waveform Num = 3
Num of Bursts = 10
Burst Interval (us)= 1200000

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc Interval(us)	Start Burst Interval(us)	End Burst Interval(us)
1	342443	1	12	50	1879	0	0	342443 0	1199999	
2	923960	2	11	70	1825	1192	0	1268282 1200000	2399999	
3	1177980	3	9	50	1981	1895	1808	2449279 2400000	3599999	
4	1614420	2	13	80	1793	1049	0	4069383 3600000	4799999	
5	904789	3	15	65	1124	1804	1749	4977014 4800000	5999999	
6	2199810	3	13	75	1415	1923	1983	7181501 6000000	7199999	
7	1194524	2	9	60	1276	1933	0	8381346 7200000	8399999	
8	857802	2	7	100	1001	1038	0	9242357 8400000	9599999	
9	586285	2	18	55	1946	1687	0	9830681 9600000	10799999	
10	1040990	1	15	100	1961	0	0	10875304 10800000	11999999	

Total number of pulses in waveform = 21

Radar_Type_5_4_trail

Waveform Num = 4
Num of Bursts = 15
Burst Interval (us)= 800000

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc Interval(us)	Start Burst Interval(us)	End Burst Interval(us)
1	777599	3	12	85	1840	1956	1279	777599 0	799999	
2	307555	3	16	60	1736	1087	1487	1090229 800000	1599999	
3	851583	1	9	75	1881	0	0	1946122 1600000	2399999	
4	570603	2	16	75	1898	1526	0	2518606 2400000	3199999	
5	999055	1	5	80	1901	0	0	3521085 3200000	3999999	
6	594692	1	15	100	1098	0	0	4117678 4000000	4799999	
7	1315732	1	17	70	1987	0	0	5434508 4800000	5599999	
8	203162	3	9	65	1089	1106	1625	5639657 5600000	6399999	
9	1366045	3	17	75	1499	1075	1186	7009522 6400000	7199999	
10	435021	3	11	55	1499	1459	1198	7448303 7200000	7999999	
11	876849	2	12	55	1910	1901	0	8329308 8000000	8799999	
12	621783	2	9	80	1878	1381	0	8954902 8800000	9599999	
13	952966	1	12	90	1975	0	0	9911127 9600000	10399999	
14	863401	2	9	60	1118	1067	0	10776503 10400000	11199999	
15	917650	3	8	95	1019	1110	1982	11696338 11200000	11999999	

Total number of pulses in waveform = 31

Radar_Type_5_5_trail

Waveform Num = 5
Num of Bursts = 16
Burst Interval (us)= 750000

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	56829	3	7	60	1730	1059	1399	56829	0	749999
2	835456	3	6	100	1805	1155	1204	896473	750000	1499999
3	815858	2	17	90	1918	1691	0	1716495	1500000	2249999
4	609124	3	7	90	1143	1724	1940	2329228	2250000	2999999
5	853770	1	18	100	1234	0	0	3187805	3000000	3749999
6	1138491	1	16	70	1128	0	0	4327530	3750000	4499999
7	503794	2	18	55	1050	1392	0	4832452	4500000	5249999
8	516930	3	11	70	1242	1028	1279	5351824	5250000	5999999
9	811246	2	19	80	1479	1569	0	6166619	6000000	6749999
10	1186361	3	13	50	1128	1085	1154	7356028	6750000	7499999
11	534409	1	8	55	1221	0	0	7893804	7500000	8249999
12	680124	3	7	65	1245	1421	1839	8575149	8250000	8999999
13	469194	1	9	100	1494	0	0	9048848	9000000	9749999
14	1358356	3	16	70	1156	1643	1056	10408698	9750000	10499999
15	455162	1	11	50	1316	0	0	10867715	10500000	11249999
16	640488	2	18	50	1269	1216	0	11509519	11250000	11999999

Total number of pulses in waveform = 34

Radar_Type_5_6_trail

Waveform Num = 6
Num of Bursts = 8
Burst Interval (us)= 1500000

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	614719	3	12	70	1867	1734	1926	614719	0	1499999
2	1286023	2	17	85	1831	1449	0	1906269	1500000	2999999
3	2070938	3	18	100	1271	1738	1451	3980487	3000000	4499999
4	1159651	3	13	95	1358	1279	1479	5144598	4500000	5999999
5	1266701	2	19	90	1582	1696	0	6415415	6000000	7499999
6	1986930	3	6	95	1079	1203	1637	8405623	7500000	8999999
7	1485079	3	20	75	1713	1772	1588	9894621	9000000	10499999
8	664338	3	5	85	1833	1060	1091	10564032	10500000	11999999

Total number of pulses in waveform = 22

Radar_Type_5_7_trail

Waveform Num = 7 Num of Bursts = 20 Burst Interval (us)= 600000

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 (us)	Start Loc Interval(us)	Start Burst Interval(us)	End Burst
1	122366	2	8	60	1191	1252	0	122366 0	599999	
2	754823	1	11	100	1930	0	0	879632 600000	1199999	
3	784581	1	19	50	1362	0	0	1666143 1200000	1799999	
4	198431	1	8	50	1539	0	0	1865936 1800000	2399999	
5	783324	3	5	70	1896	1631	1035	2650799 2400000	2999999	
6	755600	1	8	70	1160	0	0	3410961 3000000	3599999	
7	586067	2	12	75	1311	1694	0	3998188 3600000	4199999	
8	751732	3	18	65	1405	1857	1218	4752925 4200000	4799999	
9	53977	2	15	55	1942	1888	0	4811382 4800000	5399999	
10	707471	2	18	100	1791	1394	0	5522683 5400000	5999999	
11	493543	1	19	90	1158	0	0	6019411 6000000	6599999	
12	1152084	3	9	100	1011	1035	1194	7172653 6600000	7199999	
13	548843	1	16	75	1649	0	0	7724736 7200000	7799999	
14	138224	1	17	55	1040	0	0	7864609 7800000	8399999	
15	970124	1	16	85	1907	0	0	8835773 8400000	8999999	
16	624773	3	14	55	1128	1326	1768	9462453 9000000	9599999	
17	462282	2	10	60	1370	1218	0	9928957 9600000	10199999	
18	359981	1	8	65	1783	0	0	10291526 10200000	10799999	
19	961476	1	17	55	1038	0	0	11254785 10800000	11399999	
20	556461	1	12	65	1237	0	0	11812284 11400000	11999999	

Total number of pulses in waveform = 33

Radar_Type_5_8_trail

Waveform Num = 8 Num of Bursts = 18 Burst Interval (us)= 666667

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 (us)	Start Loc Interval(us)	Start Burst Interval(us)	End Burst
1	542808	2	14	80	1051	1632	0	542808 0	666666	
2	573020	1	10	60	1483	0	0	1118511 666667	1333333	
3	779590	2	19	80	1877	1772	0	1899584 1333334	2000000	
4	147747	3	10	80	1666	1368	1550	2050980 2000001	2666667	
5	1197152	2	17	100	1905	1924	0	3252716 2666668	3333334	
6	198803	2	11	60	1739	1769	0	3455348 3333335	4000001	
7	1113528	2	17	90	1421	1610	0	4572384 4000002	4666668	
8	715053	2	7	60	1061	1116	0	5290468 4666669	5333335	
9	122790	3	7	60	1800	1170	1850	5415435 5333336	6000002	
10	1227155	1	20	95	1195	0	0	6647410 6000003	6666669	
11	586131	2	14	90	1943	1579	0	7234736 6666670	7333336	
12	286751	1	18	65	1788	0	0	7525009 7333337	8000003	
13	660165	3	5	60	1221	1354	1016	8186962 8000004	8666670	
14	1051243	2	8	75	1864	1468	0	9241796 8666671	9333337	
15	488027	1	20	55	1556	0	0	9733155 9333338	10000004	
16	740158	3	10	75	1979	1082	1956	10474869 10000005	10666671	
17	818454	2	13	60	1765	1373	0	11298340 10666672	11333338	
18	693536	3	5	85	1180	1733	1923	11995014 11333339	12000005	

Total number of pulses in waveform = 37



Radar_Type_5_9_trail

Waveform Num = 9
Num of Bursts = 8
Burst Interval (us)= 1500000

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 (us)	Start Loc Interval(us)	Start Burst Interval(us)	End Burst
1	407623	2	10	85	1868	1393	0	407623	0	1499999
	2113383									
2	1259568	2	18	70	1238	1415	0	2524267	1500000	2999999
	2046575									
3	683735	1	17	100	1862	0	0	3786488	3000000	4499999
	1622577									
4	683735	1	20	80	1579	0	0	5834925	4500000	5999999
	1622577									
5	1461313	1	14	70	1610	0	0	6520239	6000000	7499999
	1116699									
6	1461313	3	11	85	1985	1134	1592	8144426	7500000	8999999
	1116699									
7	1116699	2	7	70	1723	1859	0	9610450	9000000	10499999
8		2	13	70	1953	1535	0	10730731	10500000	11999999

Total number of pulses in waveform = 14

Radar_Type_5_10_trail

Waveform Num = 10 Num of Bursts = 17 Burst Interval (us)= 705882

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 (us)	Start Loc Interval(us)	Start Burst Interval(us)	End Burst
1	624667	3	6	90	1962	1020	1728	624667	0	705881
	236338									
2	1207314	3	15	60	1524	1919	1084	865715	705882	1411763
	155067									
3	1274805	3	7	55	1854	1937	1072	2077556	1411764	2117645
	341637									
4	392846	1	20	65	1060	0	0	2237486	2117646	2823527
	1332608									
5	607874	1	14	80	1138	0	0	3513351	2823528	3529409
	625595									
6	625595	1	16	100	1270	0	0	3856126	3529410	4235291
	831748									
7	831748	2	16	85	1902	1269	0	4250242	4235292	4941173
	520851									
8	520851	1	18	95	1813	0	0	5586021	4941174	5647055
	579074									
9	579074	1	11	50	1567	0	0	6195708	5647056	6352937
	612197									
10	612197	1	8	85	1570	0	0	6822870	6352938	7058819
	1134660									
11	1134660	2	20	75	1783	1174	0	7656188	7058820	7764701
	193041									
12	193041	2	7	55	1861	1914	0	8179996	7764702	8470583
	906804									
13	906804	3	16	95	1883	1075	1297	8762845	8470584	9176465
	1134660									
14	1134660	1	11	60	2000	0	0	9379297	9176466	9882347
	193041									
15	193041	2	12	50	1812	1540	0	10515957	9882348	10588229
	906804									
16	906804	2	17	90	1013	1003	0	10712350	10588230	11294111
17		3	18	90	1268	1657	1834	11621170	11294112	11999993

Total number of pulses in waveform = 32

Radar_Type_5_11_trail

Waveform Num = 11 Num of Bursts = 19 Burst Interval (us)= 631579

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 (us)	Start Loc Interval(us)	Start Burst Interval(us)	End Burst Interval(us)
1	58358	1	7	65	1455	0	0	58358 0	631578	
2	861353	1	18	50	1356	0	0	921166 631579	1263157	
3	407862	1	12	55	1552	0	0	1330384 1263158	1894736	
4	920172	1	10	85	1506	0	0	2252108 1894737	2526315	
5	454340	3	17	95	1758	1440	1481	2707954 2526316	3157894	
6	1045133	2	15	95	1311	1791	0	3757766 3157895	3789473	
7	512814	2	12	95	1190	1566	0	4273682 3789474	4421052	
8	604869	2	12	90	1522	1805	0	4881307 4421053	5052631	
9	751183	2	11	60	1470	1912	0	5635817 5052632	5684210	
10	523519	1	15	60	1732	0	0	6162718 5684211	6315789	
11	693644	3	20	85	1851	1916	1045	6858094 6315790	6947368	
12	662356	1	11	50	1835	0	0	7525262 6947369	7578947	
13	607406	3	20	65	1674	1297	1095	8134503 7578948	8210526	
14	434782	2	19	55	1253	1942	0	8573351 8210527	8842105	
15	411306	2	11	55	1376	1210	0	8987852 8842106	9473684	
16	763127	1	16	70	1431	0	0	9753565 9473685	10105263	
17	394424	3	19	75	1677	1020	1229	10149420 10105264	10736842	
18	745318	2	15	80	1559	1787	0	10898664 10736843	11368421	
19	850034	1	19	60	1556	0	0	11752044 11368422	12000000	

Total number of pulses in waveform = 34

Radar_Type_5_12_trail

Waveform Num = 12
Num of Bursts = 13
Burst Interval (us)= 923077

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 (us)	Start Loc Interval(us)	Start Burst Interval(us)	End Burst Interval(us)
1	605635	3	8	55	1544	1263	1277	605635 0	923076	
2	753801	2	17	70	1478	1631	0	1363520 923077	1846153	
3	1172053	3	15	55	1144	1370	1925	2538682 1846154	2769230	
4	305280	1	14	100	1618	0	0	2848401 2769231	3692307	
5	1503298	3	14	50	1526	1447	1773	4353317 3692308	4615384	
6	953079	2	17	50	1760	1359	0	5311142 4615385	5538461	
7	366714	3	14	85	1931	1374	1507	5680975 5538462	6461538	
8	793966	3	9	50	1287	1427	1294	6479753 6461539	7384615	
9	1325625	1	17	60	1293	0	0	7809386 7384616	8307692	
10	846155	2	8	75	1619	1873	0	8656834 8307693	9230769	
11	791578	1	19	85	1857	0	0	9451904 9230770	10153846	
12	1468139	3	6	90	1073	1665	1353	10921900 10153847	11076923	
13	247470	3	11	65	1682	1729	1307	11173461 11076924	12000000	

Total number of pulses in waveform = 30

Radar_Type_5_13_trail

Waveform Num = 13
Num of Bursts = 12
Burst Interval (us)= 1000000

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 (us)	Start Loc Interval(us)	Start Burst Interval(us)	End Burst Interval(us)
1	259836	2	6	50	1622	1911	0	259836	0	999999
2	998439	1	6	60	1141	0	0	1261808	1000000	1999999
3	1081057	2	19	50	1650	1906	0	2344006	2000000	2999999
4	1288107	3	14	80	1226	1982	1078	3635669	3000000	3999999
5	820518	2	9	65	1736	1790	0	4460473	4000000	4999999
6	1502347	2	13	90	1401	1018	0	5966346	5000000	5999999
7	732016	3	7	90	1636	1353	1729	6700781	6000000	6999999
8	864415	2	14	75	1897	1331	0	7569914	7000000	7999999
9	1184179	2	15	90	1208	1062	0	8757321	8000000	8999999
10	317642	3	10	50	1803	1896	1781	9077233	9000000	9999999
11	1068018	1	15	80	1738	0	0	10150731	10000000	10999999
12	1026602	1	15	50	1710	0	0	11179071	11000000	11999999

Total number of pulses in waveform = 24

Radar_Type_5_14_trail

Waveform Num = 14
Num of Bursts = 10
Burst Interval (us)= 1200000

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 (us)	Start Loc Interval(us)	Start Burst Interval(us)	End Burst Interval(us)
1	233008	3	5	85	1964	1213	1555	233008	0	1199999
2	1849815	2	13	75	1227	1255	0	2087555	1200000	2399999
3	1332137	1	16	70	1433	0	0	3422174	2400000	3599999
4	642407	1	15	70	1424	0	0	4066014	3600000	4799999
5	1877882	2	16	65	1700	1011	0	5945320	4800000	5999999
6	707055	1	10	80	1872	0	0	6655086	6000000	7199999
7	645415	1	5	100	1480	0	0	7302373	7200000	8399999
8	2000355	3	13	75	1144	1662	1049	9304208	8400000	9599999
9	1111176	3	13	80	1630	1858	1569	10419239	9600000	10799999
10	1151196	1	15	70	1121	0	0	11575492	10800000	11999999

Total number of pulses in waveform = 18

Radar_Type_5_15_trail

Waveform Num = 15
Num of Bursts = 8
Burst Interval (us)= 1500000

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	665182	1	5	55	1576	0	0	665182	0	1499999
2	2121979	3	20	50	1499	1203	1793	2788737	1500000	2999999
3	1485124	1	10	90	1003	0	0	4278356	3000000	4499999
4	997293	1	9	80	1739	0	0	5276652	4500000	5999999
5	1223095	2	14	75	1689	1986	0	6501486	6000000	7499999
6	1888157	3	13	90	1118	1930	1674	8393318	7500000	8999999
7	642236	1	20	50	1083	0	0	9040276	9000000	10499999
8	2690023	2	17	90	1139	1999	0	11731382	10500000	11999999

Total number of pulses in waveform = 14

Radar_Type_5_16_trail

Waveform Num = 16 Num of Bursts = 16 Burst Interval (us)= 750000

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	374344	3	9	65	1439	1074	1733	374344	0	749999
2	417909	2	17	100	1336	1058	0	796499	750000	1499999
3	1330298	3	6	70	1924	1328	1034	2129191	1500000	2249999
4	711992	2	7	85	1981	1127	0	2845469	2250000	2999999
5	647493	3	20	75	1598	1675	1325	3496070	3000000	3749999
6	390405	3	13	50	1731	1330	1016	3891073	3750000	4499999
7	1047379	3	8	65	1508	1255	1530	4942529	4500000	5249999
8	328506	2	18	60	1842	1223	0	5275328	5250000	5999999
9	1423031	3	16	75	1400	1323	1275	6701424	6000000	6749999
10	252266	1	8	90	1103	0	0	6957688	6750000	7499999
11	1087984	1	6	90	1201	0	0	8046775	7500000	8249999
12	821056	2	12	55	1528	1487	0	8869032	8250000	8999999
13	290816	1	15	65	1979	0	0	9162863	9000000	9749999
14	1132558	3	17	70	1206	1843	1656	10297400	9750000	10499999
15	626174	3	12	50	1975	1136	1044	10928279	10500000	11249999
16	757630	3	5	70	1562	1102	1270	11690064	11250000	11999999

Total number of pulses in waveform = 38

Radar_Type_5_17_trail

Waveform Num = 17 Num of Bursts = 15 Burst Interval (us)= 800000

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	689984	1	19	80	1514	0	0	689984	0	799999
2	825359	3	20	85	1789	1143	1541	1516857	800000	1599999
3	410980	2	18	75	1899	1635	0	1932310	1600000	2399999
4	912934	3	12	65	1761	1194	1178	2848778	2400000	3199999
5	1124262	3	12	65	1749	1681	1931	3977173	3200000	3999999
6	190798	2	16	50	1442	1395	0	4173332	4000000	4799999
7	709995	2	18	85	1102	1903	0	4886164	4800000	5599999
8	1438213	3	20	70	1956	1749	1224	6327382	5600000	6399999
9	656334	2	9	95	1303	1485	0	6988645	6400000	7199999
10	1006418	1	16	95	1891	0	0	7997851	7200000	7999999
11	256669	3	8	90	1634	1431	1655	8256411	8000000	8799999
12	872414	3	19	55	1677	1906	1979	9133545	8800000	9599999
13	990049	1	12	55	1495	0	0	10129156	9600000	10399999
14	1042810	3	16	80	1046	1067	1436	11173461	10400000	11199999
15	243282	2	10	100	1891	1797	0	11420292	11200000	11999999

Total number of pulses in waveform = 34

Radar_Type_5_18_trail

Waveform Num = 18 Num of Bursts = 20 Burst Interval (us)= 600000

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	286173	2	14	70	1486	1546	0	286173	0	599999
2	596510	3	9	80	1336	1219	1165	885715	600000	1199999
3	904961	1	7	70	1902	0	0	1794396	1200000	1799999
4	468840	1	14	60	1688	0	0	2265138	1800000	2399999
5	270340	2	17	50	1527	1078	0	2537166	2400000	2999999
6	658421	2	16	75	1206	1187	0	3198192	3000000	3599999
7	700259	1	5	55	1559	0	0	3900844	3600000	4199999
8	443835	1	20	80	1925	0	0	4346238	4200000	4799999
9	963843	3	17	70	1183	1179	1589	5312006	4800000	5399999
10	280610	2	12	70	1802	1973	0	5596567	5400000	5999999
11	543140	1	5	80	1873	0	0	6143482	6000000	6599999
12	663309	2	16	60	1207	1621	0	6808664	6600000	7199999
13	821812	2	16	90	1804	1476	0	7633304	7200000	7799999
14	689765	3	16	80	1203	1304	1043	8326349	7800000	8399999
15	186763	2	9	80	1185	1399	0	8516662	8400000	8999999
16	588966	2	5	80	1315	1102	0	9108212	9000000	9599999
17	815816	1	17	75	1884	0	0	9926445	9600000	10199999
18	856929	3	10	50	1358	1016	1876	10785258	10200000	10799999
19	269957	1	11	85	1127	0	0	11059465	10800000	11399999
20	506462	1	17	60	1898	0	0	11567054	11400000	11999999

Total number of pulses in waveform = 36

Radar_Type_5_19_trail

Waveform Num = 19

Num of Bursts = 8

Burst Interval (us)= 1500000



Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 (us)	Start Loc Interval(us)	Start Burst Interval(us)	End Burst
1	104262	1	19	65	1065	0	0	104262	0	1499999
2	2350198	3	5	50	1130	1721	1261	2455525	1500000	2999999
3	1454447	3	11	65	1322	1235	1254	3914084	3000000	4499999
4	602044	1	11	50	1339	0	0	4519939	4500000	5999999
5	2731174	2	20	75	1886	1752	0	7252452	6000000	7499999
6	1498296	1	6	70	1723	0	0	8754386	7500000	8999999
7	1214420	2	19	80	1015	1975	0	9970529	9000000	10499999
8	816889	2	12	60	1307	1341	0	10790408	10500000	11999999

Total number of pulses in waveform = 15

Radar_Type_5_20_trail

Waveform Num = 20 Num of Bursts = 17 Burst Interval (us)= 705882



Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 (us)	Start Loc Interval(us)	Start Burst Interval(us)	End Burst
1	331593	2	15	90	1533	1091	0	331593	0	705881
2	1035526	3	6	75	1320	1146	1936	1369743	705882	1411763
3	380385	1	7	95	1197	0	0	1754530	1411764	2117645
4	913812	2	11	90	1526	1654	0	2669539	2117646	2823527
5	179928	1	18	80	1983	0	0	2852647	2823528	3529409
6	991672	1	9	60	1145	0	0	3846302	3529410	4235291
7	1061291	1	15	55	1850	0	0	4908738	4235292	4941173
8	111624	1	16	70	1945	0	0	5022212	4941174	5647055
9	1023168	3	7	100	1817	1318	1303	6047325	5647056	6352937
10	636712	1	20	75	1563	0	0	6688475	6352938	7058819
11	544889	3	13	60	1744	1667	1626	7234927	7058820	7764701
12	1102186	3	5	50	1526	1589	1116	8342150	7764702	8470583
13	495303	2	19	75	1743	1414	0	8841684	8470584	9176465
14	576768	3	15	60	1681	1916	1945	9421609	9176466	9882347
15	1088862	2	16	65	1139	1413	0	10516013	9882348	10588229
16	191140	3	20	70	1919	1394	1371	10709705	10588230	11294111
17	1253791	3	12	75	1580	1112	1923	11968180	11294112	11999993

Total number of pulses in waveform = 35



Radar_Type_5_21_trail

Waveform Num = 21 Num of Bursts = 18 Burst Interval (us)= 666667

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 (us)	Start Loc Interval(us)	Start Burst Interval(us)	End Burst Interval(us)
1	99620	2	12	70	1053	1114	0	99620	0	666666
	1028197									
2	726589	1	6	90	1163	0	0	1129984	666667	1333333
3	239600	2	18	95	1811	1924	0	1857736	1333334	2000000
4	859472	1	14	50	1336	0	0	2101071	2000001	2666667
5	599004	1	7	75	1063	0	0	2961879	2666668	3333334
6	868648	3	14	75	1943	1080	1666	3561946	3333335	4000001
7	803562	3	12	100	1637	1919	1701	4435283	4000002	4666668
8	289905	1	12	85	1325	0	0	5244102	4666669	5333335
9	500893	2	11	95	1382	1992	0	5535332	5333336	6000002
10	1053278	1	17	50	1421	0	0	6039599	6000003	6666669
11	701978	2	8	60	1406	1701	0	7094298	6666670	7333336
12	287702	1	8	60	1132	0	0	7799383	7333337	8000003
13	733678	2	6	55	1307	1779	0	8088217	8000004	8666670
14	1018276	2	9	75	1089	1566	0	8824981	8666671	9333337
15	458898	1	9	100	1060	0	0	9845912	9333338	10000004
16	483863	1	7	80	1148	0	0	10305870	10000005	10666671
17	571595	1	6	75	1349	0	0	10790881	10666672	11333338
18		1	18	60	1624	0	0	11363825	11333339	12000005

Total number of pulses in waveform = 28

Radar_Type_5_22_trail

Waveform Num = 22
Num of Bursts = 9
Burst Interval (us)= 1333333

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 (us)	Start Loc Interval(us)	Start Burst Interval(us)	End Burst Interval(us)
1	1320224	1	6	60	1918	0	0	1320224	0	1333332
	427259									
2	1678077	1	20	100	1868	0	0	1749401	1333333	2666665
3	1109908	3	9	85	1349	1470	1919	3429346	2666666	3999998
4	1223595	1	5	65	1311	0	0	4543992	3999999	5333331
5	1240263	3	5	50	1808	1200	1155	5768898	5333332	6666664
6	1721655	2	11	95	1387	1033	0	7013324	6666665	7999997
7	1195177	1	15	50	1008	0	0	8737399	7999998	9333330
8	801468	2	5	75	1209	1069	0	9933584	9333331	10666663
9		2	15	55	1246	1144	0	10737330	10666664	11999996

Total number of pulses in waveform = 16



Radar_Type_5_23_trail

Waveform Num = 23 Num of Bursts = 19 Burst Interval (us)= 631579										
Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	392046	2	13	85	1711	1905	0	392046	0	631578
2	596084	3	20	60	1729	1709	1509	991746	631579	1263157
3	273729	3	12	70	1185	1017	1608	1270422	1263158	1894736
4	909154	3	14	80	1491	1565	1890	2183386	1894737	2526315
5	956724	2	14	75	1669	1709	0	3145056	2526316	3157894
6	433885	3	6	55	1836	1120	1384	3582319	3157895	3789473
7	532020	1	8	80	1042	0	0	4118679	3789474	4421052
8	797611	2	19	70	1740	1989	0	4917332	4421053	5052631
9	705622	1	10	95	1357	0	0	5626683	5052632	5684210
10	259939	1	6	95	1690	0	0	5887979	5684211	6315789
11	692724	3	12	80	1438	1305	1608	6582393	6315790	6947368
12	456783	2	16	100	1822	1190	0	7043527	6947369	7578947
13	544537	1	11	55	1110	0	0	7591076	7578948	8210526
14	1000038	2	10	55	1686	1454	0	8592224	8210527	8842105
15	530471	3	19	65	1954	1368	1092	9125835	8842106	9473684
16	359119	2	6	65	1551	1868	0	9489368	9473685	10105263
17	890302	2	6	60	1208	1125	0	10383089	10105264	10736842
18	683666	3	18	95	1200	1898	1753	11069088	10736843	11368421
19	428698	2	18	90	1451	1372	0	11502637	11368422	12000000
Total number of pulses in waveform = 41										

Radar_Type_5_24_trail

Waveform Num = 24 Num of Bursts = 18 Burst Interval (us)= 666667										
Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	366526	1	18	60	1940	0	0	366526	0	666666
2	916300	2	16	80	1856	1770	0	1284766	666667	1333333
3	475775	3	20	100	1964	1938	1330	1764167	1333334	2000000
4	590601	3	13	80	1611	1854	1317	2360000	2000001	2666667
5	478371	2	15	60	1011	1356	0	2843153	2666668	3333334
6	1140873	2	10	50	1979	1014	0	3986393	3333335	4000001
7	628557	1	12	80	1155	0	0	4617943	4000002	4666668
8	447965	1	6	55	1168	0	0	5067063	4666669	5333335
9	571433	1	10	65	1102	0	0	5639664	5333336	6000002
10	872753	1	5	60	1554	0	0	6513519	6000003	6666669
11	509903	3	14	50	1877	1474	1773	7024976	6666670	7333336
12	615915	2	15	55	1308	1012	0	7646015	7333337	8000003
13	741596	1	9	85	1522	0	0	8389931	8000004	8666670
14	770644	3	8	80	1830	1173	1127	9162097	8666671	9333337
15	276753	1	8	75	1624	0	0	9442980	9333338	10000004
16	774228	2	14	95	1468	1307	0	10218832	10000005	10666671
17	785423	1	6	65	1132	0	0	11007030	10666672	11333338
18	592889	2	6	90	1654	1943	0	11601051	11333339	12000005
Total number of pulses in waveform = 32										

Radar_Type_5_25_trail

Waveform Num = 25 Num of Bursts = 17 Burst Interval (us)= 705882

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	512442	2	5	95	1404	1023	0	512442	0	705881
	829532									
2	332771	3	19	95	1390	1585	1858	1344401	705882	1411763
	722644									
3	459934	3	18	95	1264	1293	1060	1682005	1411764	2117645
	1265647									
4	671446	3	8	65	1486	1037	1157	2408266	2117646	2823527
	664925									
5	310835	3	16	95	1082	1474	1988	2871880	2823528	3529409
	1242595									
6	696142	3	11	65	1695	1002	1363	4142071	3529410	4235291
	124047									
7	1016367	1	10	85	1342	0	0	4817577	4235292	4941173
	368909									
8	685362	3	8	95	1574	1602	1604	5483844	4941174	5647055
	1056931									
9	398466	2	19	60	1249	1038	0	5799459	5647056	6352937
	1016367									
10	696142	1	20	50	1017	0	0	7044341	6352938	7058819
	124047									
11	1016367	2	9	85	1381	1017	0	7741500	7058820	7764701
	368909									
12	685362	2	6	65	1130	1260	0	7867945	7764702	8470583
	1056931									
13	398466	1	6	70	1749	0	0	8886702	8470584	9176465
	1056931									
14	685362	3	5	70	1158	1132	1221	9257360	9176466	9882347
	1056931									
15	1056931	2	11	95	1201	1351	0	9946233	9882348	10588229
	398466									
16	398466	1	19	55	1592	0	0	11005716	10588230	11294111
	398466									
17	398466	2	13	100	1036	1764	0	11405774	11294112	11999993

Total number of pulses in waveform = 37

Radar_Type_5_26_trail

Waveform Num = 26
Num of Bursts = 14
Burst Interval (us)= 857143

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	234945	3	10	50	1509	1221	1216	234945	0	857142
	1118707									
2	1099092	2	17	90	1072	1034	0	1357598	857143	1714285
	114679									
3	114679	3	20	85	1792	1854	1075	2458796	1714286	2571428
	1226972									
4	1226972	1	6	80	1426	0	0	2578196	2571429	3428571
	912669									
5	912669	2	16	80	1451	1928	0	3806594	3428572	4285714
	584751									
6	584751	3	8	100	1927	1000	1603	4722642	4285715	5142857
	1159907									
7	1159907	1	8	60	1144	0	0	5311923	5142858	6000000
	1004220									
8	1004220	1	13	55	1106	0	0	6472974	6000001	6857143
	642499									
9	642499	2	10	65	1816	1177	0	7478300	6857144	7714286
	610296									
10	610296	2	5	70	1607	1761	0	8123792	7714287	8571429
	1411665									
11	1411665	3	5	80	1212	1136	1149	8737456	8571430	9428572
	232645									
12	232645	2	8	65	1500	1140	0	10152618	9428573	10285715
	1143980									
13	1143980	1	20	60	1065	0	0	10387903	10285716	11142858
	1143980									
14	1143980	3	6	60	1564	1744	1465	11532948	11142859	12000001

Total number of pulses in waveform = 29

Radar_Type_5_27_trail

Waveform Num = 27 Num of Bursts = 17 Burst Interval (us) = 705882

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	30983	1	11	75	1677	0	0	30983	0	705881
2	1368200	1	7	65	1637	0	0	1400860	705882	1411763
3	431917	1	16	75	1539	0	0	1834414	1411764	2117645
4	955703	3	6	80	1688	1637	1802	2791656	2117646	2823527
5	530300	2	8	80	1125	1506	0	3327083	2823528	3529409
6	867718	2	16	60	1896	1875	0	4197432	3529410	4235291
7	493195	2	6	80	1099	1847	0	4694398	4235292	4941173
8	693720	2	16	85	1247	1356	0	5391064	4941174	5647055
9	864990	3	20	85	1617	1593	1268	6258657	5647056	6352937
10	519398	3	11	65	1292	1078	1593	6782533	6352938	7058819
11	928392	1	15	60	1729	0	0	7714888	7058820	7764701
12	610427	1	7	75	1568	0	0	8327044	7764702	8470583
13	372765	2	8	50	1870	1287	0	8701377	8470584	9176465
14	530384	3	12	65	1260	1457	1165	9234918	9176466	9882347
15	709906	2	16	85	1794	1472	0	9948706	9882348	10588229
16	1264361	3	8	55	1419	1993	1217	11216333	10588230	11294111
17	504570									

Radar_Type_5_28_trail

Waveform Num = 28 Num of Bursts = 17 Burst Interval (us) = 705882

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	683528	3	17	95	1977	1416	1600	683528	0	705881
2	248871	3	15	75	1772	1053	1928	937392	705882	1411763
3	1113057	2	14	70	1883	1483	0	2055202	1411764	2117645
4	112755	3	13	75	1351	1493	1009	2171323	2117646	2823527
5	671234	3	8	75	1496	1863	1806	2846410	2823528	3529409
6	991216	2	16	90	1888	1261	0	3842791	3529410	4235291
7	541061	3	14	85	1884	1072	1992	4387001	4235292	4941173
8	732719	1	17	70	1624	0	0	5124668	4941174	5647055
9	972087	2	12	50	1964	1136	0	6098379	5647056	6352937
10	912409	2	14	70	1642	1965	0	7013888	6352938	7058819
11	613764	1	12	55	1642	0	0	7631259	7058820	7764701
12	615869	1	15	50	1622	0	0	8248770	7764702	8470583
13	867725	3	20	85	1615	1307	1125	9118117	8470584	9176465
14	208240	3	20	60	1552	1492	1392	9330404	9176466	9882347
15	697963	1	14	60	1644	0	0	10032803	9882348	10588229
16	1112546	1	5	70	1553	0	0	11146993	10588230	11294111
17										



Radar_Type_5_29_trail

Waveform Num = 29 Num of Bursts = 15 Burst Interval (us)= 800000

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc Interval(us)	Start Burst Interval(us)	End Burst Interval(us)
1	240740	3	8	95	1175	1234	1401	240740 0	799999	
2	1311949	1	8	75	1099	0	0	1556499 800000	1599999	
3	610140	1	15	65	1262	0	0	2167738 1600000	2399999	
4	1014314	2	7	90	1098	1825	0	3183314 2400000	3199999	
5	117882	1	12	55	1072	0	0	3304119 3200000	3999999	
6	1141734	1	7	50	1341	0	0	4446925 4000000	4799999	
7	425462	3	9	55	1746	1711	1836	4873728 4800000	5599999	
8	1347624	2	14	60	1036	1294	0	6226645 5600000	6399999	
9	736761	3	8	55	1647	1783	1740	6965736 6400000	7199999	
10	816667	2	15	65	1292	1784	0	7787573 7200000	7999999	
11	642883	1	11	50	1486	0	0	8433532 8000000	8799999	
12	988535	1	11	70	1332	0	0	9423553 8800000	9599999	
13	746969	3	14	90	1836	1935	1937	10171854 9600000	10399999	
14	293367	3	17	65	1268	1400	1313	10470929 10400000	11199999	
15	1119293	3	20	65	1840	1339	1847	11594203 11200000	11999999	

Total number of pulses in waveform = 30

Radar_Type_5_30_trail

Waveform Num = 30 Num of Bursts = 16 Burst Interval (us)= 750000

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc Interval(us)	Start Burst Interval(us)	End Burst Interval(us)
1	29340	1	8	70	1713	0	0	29340 0	749999	
2	1453610	1	5	95	1852	0	0	1484663 750000	1499999	
3	287212	3	5	90	1300	1920	1852	1773727 1500000	2249999	
4	490525	3	15	50	1912	1074	1478	2269324 2250000	2999999	
5	1243936	3	8	50	1574	1249	1782	3517724 3000000	3749999	
6	532014	3	9	55	1612	1758	1953	4054343 3750000	4499999	
7	770598	1	9	85	1640	0	0	4830264 4500000	5249999	
8	1075711	2	6	65	1250	1103	0	5907615 5250000	5999999	
9	242594	2	6	75	1089	1521	0	6152562 6000000	6749999	
10	830571	2	12	70	1768	1881	0	6985743 6750000	7499999	
11	548199	2	5	60	1227	1630	0	7537591 7500000	8249999	
12	1056465	2	12	95	1366	1416	0	8596913 8250000	8999999	
13	984729	2	8	80	1252	1931	0	9584424 9000000	9749999	
14	422609	1	16	70	1814	0	0	10010216 9750000	10499999	
15	531778	2	8	70	1062	1095	0	10543808 10500000	11249999	
16	1020639	1	9	70	1540	0	0	11566604 11250000	11999999	

Total number of pulses in waveform = 31

Radar Type 6 1 trail						
Frequency List (MHz)	0	1	2	3	4	
0	5364	5717	5334	5705	5549	
5	5312	5260	5635	5503	5570	
10	5347	5508	5292	5447	5588	
15	5621	5638	5296	5482	5455	
20	5636	5593	5434	5306	5411	
25	5556	5378	5478	5432	5341	
30	5438	5294	5496	5285	5327	
35	5293	5502	5277	5403	5330	
40	5612	5720	5544	5615	5561	
45	5676	5704	5366	5290	5387	
50	5278	5723	5383	5368	5263	
55	5630	5375	5718	5281	5604	
60	5453	5509	5479	5400	5262	
65	5354	5467	5545	5466	5611	
70	5715	5402	5568	5641	5396	
75	5567	5557	5674	5359	5392	
80	5313	5537	5258	5475	5272	
85	5388	5474	5555	5410	5355	
90	5517	5382	5386	5664	5697	
95	5721	5268	5489	5706	5525	

Radar Type 6 2 trail						
Frequency List (MHz)	0	1	2	3	4	
0	5619	5578	5270	5294	5354	
5	5660	5710	5666	5399	5656	
10	5297	5333	5642	5609	5709	
15	5668	5527	5647	5547	5284	
20	5375	5395	5384	5444	5705	
25	5584	5536	5480	5658	5453	
30	5403	5576	5588	5641	5465	
35	5674	5580	5623	5559	5627	
40	5553	5704	5673	5633	5724	
45	5373	5348	5331	5513	5637	
50	5544	5314	5585	5697	5257	
55	5672	5471	5423	5424	5638	
60	5644	5345	5569	5655	5413	
65	5271	5415	5550	5371	5335	
70	5382	5416	5533	5706	5558	
75	5535	5692	5256	5436	5716	
80	5385	5669	5458	5349	5456	
85	5336	5634	5703	5352	5280	
90	5506	5313	5690	5326	5631	
95	5628	5546	5289	5490	5590	

Radar Type 6 3 trail					
Frequency List (MHz)	0	1	2	3	4
0	5302	5342	5681	5455	5611
5	5493	5682	5310	5257	5606
10	5587	5561	5374	5362	5630
15	5322	5320	5502	5475	5364
20	5555	5353	5316	5387	5357
25	5332	5654	5312	5262	5409
30	5522	5547	5410	5618	5253
35	5311	5683	5556	5470	5258
40	5537	5398	5710	5491	5469
45	5670	5465	5704	5456	5406
50	5384	5400	5513	5720	5365
55	5296	5276	5641	5445	5626
60	5564	5620	5395	5334	5290
65	5401	5578	5359	5569	5586
70	5282	5649	5407	5368	5647
75	5643	5509	5592	5675	5678
80	5581	5275	5381	5512	5600
85	5304	5382	5389	5458	5666
90	5419	5642	5350	5526	5519
95	5709	5692	5418	5653	5354

Radar Type 6 4 trail					
Frequency List (MHz)	0	1	2	3	4
0	5557	5581	5617	5616	5356
5	5535	5704	5385	5420	5338
10	5518	5350	5415	5651	5313
15	5447	5605	5520	5653	5563
20	5519	5257	5476	5330	5598
25	5506	5515	5366	5443	5661
30	5533	5367	5358	5502	5606
35	5347	5647	5266	5411	5451
40	5334	5332	5709	5667	5394
45	5684	5539	5464	5437	5665
50	5389	5421	5416	5574	5488
55	5536	5580	5279	5439	5324
60	5499	5710	5708	5404	5305
65	5295	5525	5589	5359	5452
70	5576	5272	5492	5388	5551
75	5547	5323	5724	5256	5721
80	5293	5379	5584	5361	5508
85	5479	5693	5341	5655	5715
90	5629	5494	5401	5637	5423
95	5280	5316	5662	5281	5649

Radar Type 6 5 trail					
Frequency List (MHz)	0	1	2	3	4
0	5337	5345	5553	5302	5673
5	5577	5629	5460	5583	5842
10	5352	5614	5456	5655	5672
15	5401	5574	5611	5585	5370
20	5571	5588	5295	5468	5303
25	5486	5358	5718	5470	5380
30	5703	5422	5324	5573	5854
35	5426	5263	5634	5661	5462
40	5648	5498	5270	5474	5664
45	5701	5622	5425	5490	5552
50	5265	5597	5467	5300	5432
55	5724	5437	5469	5258	5715
60	5453	5277	5637	5705	5348
65	5593	5262	5561	5251	5255
70	5275	5341	5364	5510	5516
75	5346	5712	5504	5549	5356
80	5527	5376	5264	5447	5442
85	5454	5658	5428	5544	5374
90	5343	5663	5478	5689	5384
95	5372	5707	5274	5292	5466

Radar Type 6 6 trail					
Frequency List (MHz)	0	1	2	3	4
0	5592	5584	5489	5463	5418
5	5619	5651	5535	5271	5374
10	5283	5500	5594	5375	5693
15	5604	5714	5610	5562	5482
20	5279	5711	5557	5276	5277
25	5307	5446	5574	5414	5270
30	5408	5281	5691	5428	5624
35	5625	5354	5430	5339	5376
40	5487	5581	5683	5617	5630
45	5644	5705	5483	5342	5519
50	5298	5518	5563	5598	5437
55	5391	5659	5455	5686	5582
60	5697	5469	5628	5294	5319
65	5597	5631	5521	5436	5423
70	5278	5665	5340	5485	5466
75	5438	5315	5275	5614	5330
80	5520	5590	5596	5264	5289
85	5405	5646	5526	5346	5676
90	5267	5539	5349	5600	5258
95	5671	5533	5345	5587	5523

Radar Type 6 7 trail					
Frequency List (MHz)	0	1	2	3	4
0	5372	5348	5425	5624	5260
5	5283	5576	5610	5434	5581
10	5689	5289	5635	5570	5714
15	5577	5256	5342	5558	5279
20	5490	5652	5549	5724	5640
25	5634	5552	5300	5448	5409
30	5297	5713	5431	5580	5444
35	5667	5445	5701	5492	5290
40	5326	5286	5621	5382	5280
45	5559	5313	5541	5499	5704
50	5395	5474	5569	5274	5421
55	5698	5625	5345	5374	5657
60	5711	5519	5642	5301	5454
65	5715	5520	5536	5366	5413
70	5414	5378	5417	5316	5428
75	5357	5586	5484	5296	5430
80	5627	5684	5653	5273	5606
85	5465	5363	5491	5352	5355
90	5518	5631	5688	5588	5329
95	5485	5502	5590	5390	5531

Radar Type 6 8 trail					
Frequency List (MHz)	0	1	2	3	4
0	5530	5587	5361	5310	5480
5	5325	5598	5685	5500	5410
10	5523	5553	5676	5290	5260
15	5568	5383	5445	5603	5471
20	5498	5514	5690	5638	5697
25	5431	5583	5280	5404	5482
30	5451	5661	5670	5646	5354
35	5642	5331	5633	5594	5267
40	5301	5640	5369	5559	5622
45	5277	5391	5507	5396	5502
50	5552	5494	5271	5650	5620
55	5363	5719	5545	5338	5299
60	5564	5628	5268	5684	5608
65	5283	5343	5584	5572	5673
70	5683	5517	5492	5381	5266
75	5292	5387	5326	5706	5627
80	5682	5262	5367	5276	5716
85	5270	5511	5428	5458	5359
90	5351	5600	5285	5394	5571
95	5400	5265	5327	5643	5313

Radar Type 6 9 trail					
Frequency List (MHz)	0	1	2	3	4
0	5310	5351	5297	5374	5322
5	5367	5523	5285	5663	5617
10	5454	5342	5717	5485	5281
15	5656	5510	5548	5648	5409
20	5680	5631	5630	5670	5319
25	5435	5483	5508	5516	5493
30	5647	5627	5386	5506	5462
35	5470	5724	5390	5420	5690
40	5576	5452	5497	5387	5274
45	5320	5487	5479	5560	5605
50	5381	5622	5671	5445	5489
55	5526	5253	5279	5502	5397
60	5629	5440	5678	5704	5544
65	5533	5608	5408	5478	5655
70	5481	5590	5268	5346	5673
75	5254	5295	5258	5459	5372
80	5623	5401	5267	5706	5545
85	5488	5650	5324	5305	5373
90	5559	5464	5660	5344	5698
95	5394	5378	5363	5321	5311

Radar Type 6 10 trail					
Frequency List (MHz)	0	1	2	3	4
0	5565	5590	5708	5535	5542
5	5409	5545	5360	5351	5349
10	5288	5606	5283	5583	5302
15	5269	5637	5554	5693	5380
20	5417	5274	5572	5719	5643
25	5682	5287	5686	5612	5550
30	5632	5536	5584	5504	5280
35	5660	5512	5340	5661	5573
40	5604	5415	5435	5530	5271
45	5627	5467	5562	5618	5658
50	5646	5401	5527	5722	5541
55	5268	5336	5714	5372	5473
60	5526	5539	5574	5369	5650
65	5367	5482	5547	5715	5370
70	5598	5252	5464	5484	5439
75	5622	5305	5642	5374	5341
80	5711	5385	5404	5264	5523
85	5448	5326	5451	5270	5667
90	5356	5621	5303	5724	5470
95	5639	5386	5361	5278	5378

Radar Type 6 11 trail					
Frequency List (MHz)	0	1	2	3	4
0	5345	5354	5644	5696	5384
5	5548	5470	5435	5514	5653
10	5694	5492	5324	5303	5323
15	5357	5667	5657	5641	5572
20	5425	5440	5610	5711	5616
25	5473	5414	5338	5584	5674
30	5541	5719	5432	5480	5651
35	5431	5457	5348	5615	5254
40	5715	5373	5295	5365	5556
45	5447	5645	5579	5533	5277
50	5703	5298	5252	5566	5280
55	5330	5636	5562	5403	5444
60	5655	5704	5519	5676	5427
65	5596	5568	5583	5450	5640
70	5304	5421	5547	5288	5598
75	5264	5494	5484	5695	5488
80	5495	5660	5293	5527	5639
85	5718	5351	5643	5511	5462
90	5632	5310	5394	5501	5476
95	5576	5327	5378	5333	5362

Radar Type 6 12 trail					
Frequency List (MHz)	0	1	2	3	4
0	5503	5593	5580	5382	5604
5	5590	5492	5510	5385	5625
10	5281	5365	5498	5344	5348
15	5319	5285	5686	5386	5336
20	5509	5551	5325	5589	5361
25	5563	5520	5442	5618	5716
30	5411	5459	5681	5300	5315
35	5522	5350	5501	5529	5568
40	5323	5689	5535	5362	5485
45	5427	5253	5637	5667	5628
50	5404	5349	5341	5389	5602
55	5518	5277	5697	5415	5309
60	5394	5464	5508	5639	5391
65	5380	5282	5532	5582	5493
70	5533	5587	5515	5574	5698
75	5483	5614	5530	5676	5265
80	5605	5441	5360	5636	5438
85	5351	5474	5654	5500	5642
90	5321	5579	5482	5610	5684
95	5388	5443	5547	5581	5527

Radar Type 6 13 trail					
Frequency List (MHz)	0	1	2	3	4
0	5283	5357	5516	5543	5446
5	5632	5417	5585	5268	5592
10	5459	5545	5406	5693	5365
15	5436	5388	5256	5578	5344
20	5675	5492	5317	5562	5627
25	5512	5723	5546	5652	5380
30	5300	5455	5674	5358	5498
35	5454	5710	5621	5654	5443
40	5504	5678	5359	5407	5336
45	5695	5720	5685	5580	5400
50	5430	5687	5706	5544	5467
55	5419	5289	5438	5559	5506
60	5340	5554	5329	5558	5327
65	5385	5662	5519	5590	5364
70	5550	5657	5355	5259	5673
75	5420	5618	5697	5524	5275
80	5633	5254	5424	5534	5274
85	5465	5315	5415	5269	5488
90	5547	5566	5616	5509	5427
95	5445	5560	5636	5347	5432

Radar Type 6 14 trail					
Frequency List (MHz)	0	1	2	3	4
0	5538	5596	5452	5704	5666
5	5674	5439	5660	5431	5324
10	5390	5334	5544	5413	5386
15	5524	5573	5491	5301	5295
20	5352	5269	5530	5406	5535
25	5515	5364	5451	5650	5686
30	5422	5664	5412	5317	5607
35	5318	5496	5326	5417	5429
40	5454	5343	5489	5565	5443
45	5356	5721	5387	5419	5656
50	5298	5475	5283	5281	5519
55	5393	5498	5657	5713	5260
60	5470	5724	5647	5477	5531
65	5278	5594	5597	5663	5259
70	5505	5690	5688	5526	5282
75	5719	5638	5672	5253	5478
80	5338	5630	5450	5632	5266
85	5497	5466	5333	5366	5339
90	5434	5591	5581	5351	5250
95	5411	5442	5264	5545	5527

Radar Type 6 15 trail					
Frequency List (MHz)	0	1	2	3	4
0	5318	5360	5388	5390	5508
5	5338	5364	5260	5594	5628
10	5321	5598	5585	5511	5407
15	5612	5700	5497	5724	5487
20	5263	5435	5471	5398	5306
25	5691	5654	5279	5720	5464
30	5650	5369	5532	5284	5516
35	5635	5417	5310	5582	5368
40	5657	5669	5503	5683	5353
45	5553	5270	5502	5714	5351
50	5362	5634	5457	5608	5711
55	5337	5607	5452	5372	5706
60	5599	5414	5396	5576	5303
65	5574	5616	5702	5533	5534
70	5489	5466	5428	5588	5693
75	5537	5478	5293	5402	5387
80	5716	5449	5266	5259	5377
85	5401	5627	5645	5632	5583
90	5557	5561	5298	5320	5339
95	5597	5518	5708	5262	5543

Radar Type 6 16 trail					
Frequency List (MHz)	0	1	2	3	4
0	5573	5599	5324	5551	5253
5	5380	5386	5335	5660	5360
10	5630	5484	5626	5706	5428
15	5603	5255	5600	5294	5679
20	5271	5504	5412	5487	5481
25	5669	5640	5382	5480	5279
30	5506	5539	5326	5272	5533
35	5336	5299	5508	5581	5260
40	5282	5496	5277	5441	5448
45	5447	5482	5250	5585	5297
50	5404	5627	5510	5633	5553
55	5319	5534	5659	5320	5406
60	5562	5351	5677	5579	5438
65	5408	5604	5520	5342	5651
70	5569	5366	5284	5647	5500
75	5574	5318	5289	5381	5437
80	5522	5530	5697	5701	5376
85	5515	5444	5561	5624	5365
90	5535	5278	5641	5371	5587
95	5357	5552	5493	5560	5608

Radar Type 6 17 trail					
Frequency List (MHz)	0	1	2	3	4
0	5256	5460	5260	5615	5570
5	5422	5311	5410	5348	5587
10	5561	5273	5667	5426	5449
15	5691	5382	5703	5339	5396
20	5279	5670	5353	5479	5454
25	5557	5492	5488	5584	5313
30	5645	5525	5283	5487	5685
35	5534	5341	5599	5377	5413
40	5671	5335	5360	5379	5591
45	5444	5411	5705	5668	5258
50	5457	5514	5289	5334	5604
55	5408	5357	5603	5263	5655
60	5548	5551	5269	5383	5715
65	5527	5466	5640	5600	5508
70	5576	5651	5450	5669	5560
75	5321	5613	5609	5642	5678
80	5478	5486	5296	5608	5624
85	5524	5438	5364	5580	5470
90	5606	5325	5555	5489	5375
95	5480	5674	5663	5282	5573

Radar Type 6 18 trail					
Frequency List (MHz)	0	1	2	3	4
0	5511	5699	5671	5301	5315
5	5464	5333	5485	5396	5492
10	5537	5708	5621	5470	5304
15	5509	5331	5287	5588	5665
20	5264	5391	5568	5427	5348
25	5441	5691	5688	5347	5687
30	5414	5715	5605	5459	5354
35	5480	5312	5648	5663	5682
40	5271	5540	5317	5356	5718
45	5685	5276	5316	5413	5640
50	5510	5655	5497	5558	5450
55	5599	5692	5370	5367	5522
60	5434	5328	5547	5353	5412
65	5366	5549	5544	5408	5446
70	5253	5266	5546	5421	5462
75	5355	5481	5719	5659	5633
80	5499	5552	5297	5521	5280
85	5438	5681	5543	5565	5474
90	5279	5608	5375	5619	5712
95	5523	5257	5541	5507	5261

Radar Type 6 19 trail					
Frequency List (MHz)	0	1	2	3	4
0	5291	5463	5607	5462	5632
5	5603	5258	5560	5674	5326
10	5274	5341	5491	5392	5636
15	5434	5332	5305	5673	5430
20	5400	5711	5293	5419	5317
25	5381	5254	5303	5672	5345
30	5611	5649	5619	5403	5541
35	5596	5585	5623	5633	5438
40	5647	5665	5359	5374	5466
45	5666	5516	5589	5706	5586
50	5394	5312	5646	5661	5493
55	5543	5599	5273	5476	5276
60	5455	5664	5498	5580	5618
65	5338	5531	5435	5629	5424
70	5311	5309	5314	5450	5310
75	5290	5640	5410	5609	5333
80	5461	5275	5518	5572	5620
85	5506	5282	5342	5330	5573
90	5718	5557	5517	5601	5708
95	5298	5525	5405	5304	5682

Radar Type 6 20 trail					
Frequency List (MHz)	0	1	2	3	4
0	5546	5702	5543	5623	5377
5	5645	5280	5635	5265	5335
10	5257	5590	5315	5439	5512
15	5383	5288	5440	5594	5681
20	5596	5273	5649	5373	5502
25	5620	5622	5518	5415	5393
30	5289	5629	5560	5385	5372
35	5283	5494	5337	5510	5424
40	5706	5571	5361	5435	5479
45	5442	5519	5456	5392	5290
50	5282	5297	5679	5716	5500
55	5600	5275	5464	5672	5308
60	5577	5401	5390	5447	5450
65	5608	5334	5507	5615	5524
70	5285	5322	5430	5433	5621
75	5662	5719	5589	5528	5515
80	5292	5462	5566	5307	5284
85	5296	5474	5724	5399	5710
90	5250	5353	5509	5303	5597
95	5407	5428	5562	5678	5300

Radar Type 6 21 trail					
Frequency List (MHz)	0	1	2	3	4
0	5704	5466	5479	5309	5597
5	5687	5680	5710	5428	5639
10	5586	5379	5358	5634	5533
15	5471	5318	5543	5422	5311
20	5592	5665	5641	5443	5390
25	5569	5350	5622	5449	5435
30	5653	5586	5300	5537	5667
35	5325	5585	5608	5269	5521
40	5263	5314	5509	5504	5529
45	5408	5528	5525	5393	5572
50	5343	5646	5333	5386	5502
55	5660	5688	5554	5465	5677
60	5338	5326	5454	5260	5615
65	5403	5347	5591	5396	5555
70	5515	5579	5601	5527	5387
75	5261	5707	5291	5550	5602
80	5439	5257	5370	5692	5498
85	5512	5487	5719	5401	5650
90	5335	5402	5255	5659	5722
95	5364	5493	5676	5510	5700

Radar Type 6 22 trail					
Frequency List (MHz)	0	1	2	3	4
0	5484	5705	5415	5470	5439
5	5351	5702	5310	5591	5371
10	5497	5265	5494	5354	5554
15	5559	5445	5646	5370	5503
20	5600	5356	5252	5255	5416
25	5656	5421	5456	5251	5483
30	5477	5542	5543	5418	5311
35	5390	5464	5676	5501	5422
40	5435	5674	5447	5269	5526
45	5337	5508	5608	5451	5625
50	5522	5642	5384	5475	5703
55	5507	5401	5655	5496	5309
60	5455	5619	5680	5326	5414
65	5345	5492	5295	5318	5273
70	5587	5530	5711	5615	5666
75	5638	5670	5622	5583	5691
80	5367	5626	5381	5561	5412
85	5682	5718	5589	5286	5289
90	5553	5314	5329	5261	5465
95	5541	5463	5574	5671	5458

Radar Type 6 23 trail					
Frequency List (MHz)	0	1	2	3	4
0	5264	5469	5351	5631	5659
5	5393	5627	5385	5279	5578
10	5428	5529	5535	5549	5575
15	5647	5572	5274	5415	5695
20	5608	5425	5668	5722	5389
25	5544	5370	5355	5517	5616
30	5528	5500	5633	5463	5685
35	5603	5292	5297	5349	5513
40	5577	5509	5523	5644	5488
45	5691	5412	5678	5495	5398
50	5343	5435	5564	5526	5451
55	5589	5462	5315	5280	5584
60	5309	5625	5336	5615	5294
65	5530	5702	5565	5596	5345
70	5670	5630	5560	5591	5607
75	5693	5468	5477	5407	5545
80	5721	5409	5402	5525	5552
85	5381	5483	5340	5326	5609
90	5494	5364	5499	5423	5465
95	5518	5558	5569	5716	5718

Radar Type 6 24 trail					
Frequency List (MHz)	0	1	2	3	4
0	5519	5708	5287	5695	5501
5	5435	5649	5460	5442	5407
10	5262	5318	5576	5269	5596
15	5638	5699	5377	5412	5591
20	5706	5336	5362	5432	5697
25	5387	5556	5454	5658	5417
30	5457	5373	5712	5408	5645
35	5480	5568	5350	5360	5352
40	5660	5323	5652	5520	5573
45	5468	5299	5470	5634	5285
50	5274	5486	5275	5349	5298
55	5680	5416	5463	5512	5251
60	5713	5474	5667	5683	5453
65	5282	5438	5718	5566	5534
70	5399	5514	5656	5633	5409
75	5567	5584	5338	5545	5623
80	5490	5663	5612	5309	5406
85	5694	5525	5499	5448	5294
90	5574	5332	5659	5370	5436
95	5477	5415	5542	5467	5319

Radar Type 6 25 trail					
Frequency List (MHz)	0	1	2	3	4
0	5299	5472	5698	5381	5721
5	5477	5574	5535	5508	5614
10	5668	5582	5617	5367	5251
15	5351	5383	5505	5604	5527
20	5660	5647	5328	5335	5549
25	5590	5488	5700	5403	5414
30	5588	5389	5703	5309	5571
35	5364	5503	5274	5666	5365
40	5261	5417	5517	5405	5448
45	5382	5528	5687	5695	5537
50	5717	5393	5370	5653	5331
55	5600	5270	5639	5612	5515
60	5376	5667	5269	5252	5677
65	5586	5642	5258	5636	5543
70	5458	5479	5623	5400	5444
75	5301	5372	5428	5341	5575
80	5290	5316	5345	5347	5627
85	5349	5470	5565	5432	5628
90	5676	5447	5672	5552	5468
95	5469	5359	5321	5325	5678

Radar Type 6 26 trail					
Frequency List (MHz)	0	1	2	3	4
0	5457	5711	5634	5542	5563
5	5616	5596	5610	5671	5346
10	5599	5371	5658	5562	5638
15	5339	5381	5486	5453	5321
20	5535	5351	5588	5417	5308
25	5586	5498	5318	5289	5522
30	5364	5292	5706	5426	5448
35	5662	5257	5656	5663	5505
40	5674	5657	5514	5334	5428
45	5465	5489	5265	5437	5404
50	5396	5373	5564	5581	5324
55	5368	5625	5571	5399	5329
60	5557	5347	5677	5271	5462
65	5541	5576	5363	5280	5250
70	5261	5485	5519	5502	5578
75	5525	5604	5652	5613	5700
80	5435	5400	5609	5331	5635
85	5385	5281	5299	5595	5350
90	5382	5407	5695	5546	5683
95	5607	5263	5655	5550	5459

Radar Type 6 27 trail					
Frequency List (MHz)	0	1	2	3	4
0	5712	5475	5570	5703	5308
5	5658	5521	5685	5359	5650
10	5433	5257	5699	5282	5659
15	5427	5508	5589	5498	5610
20	5446	5420	5626	5409	5281
25	5377	5350	5424	5393	5556
30	5406	5656	5328	5315	5721
35	5587	5278	5528	5431	5674
40	5441	5531	5515	5422	5608
45	5263	5408	5548	5547	5318
50	5324	5280	5572	5639	5542
55	5671	5294	5558	5347	5494
60	5502	5654	5600	5692	5663
65	5662	5577	5311	5414	5661
70	5352	5711	5361	5334	5398
75	5461	5289	5698	5668	5585
80	5429	5723	5481	5629	5595
85	5300	5329	5331	5597	5598
90	5624	5368	5645	5679	5485
95	5707	5563	5591	5636	5537

Radar Type 6 28 trail					
Frequency List (MHz)	0	1	2	3	4
0	5492	5714	5506	5389	5625
5	5700	5543	5285	5522	5382
10	5364	5521	5265	5477	5680
15	5418	5635	5692	5327	5454
20	5586	5567	5498	5254	5299
25	5627	5594	5590	5448	5642
30	5661	5564	5541	5629	5369
35	5324	5584	5588	5280	5614
40	5453	5565	5605	5570	5291
45	5631	5371	5589	5534	5273
50	5690	5494	5355	5482	5707
55	5641	5513	5657	5659	5544
60	5486	5426	5638	5611	5516
65	5618	5684	5464	5697	5658
70	5374	5420	5258	5721	5566
75	5681	5358	5262	5696	5297
80	5621	5709	5439	5672	5304
85	5616	5368	5491	5475	5341
90	5580	5318	5281	5380	5519
95	5537	5362	5645	5524	5325

Radar Type 6 29 trail						
Frequency List (MHz)	0	1	2	3	4	
0	5272	5478	5539	5550	5370	
5	5267	5565	5360	5588	5589	
10	5295	5310	5306	5672	5701	
15	5506	5287	5320	5491	5519	
20	5462	5655	5508	5490	5702	
25	5531	5626	5355	5698	5624	
30	5717	5401	5716	5264	5293	
35	5557	5692	5262	5502	5594	
40	5319	5391	5330	5602	5499	
45	5271	5336	5663	5424	5476	
50	5410	5449	5266	5342	5317	
55	5299	5670	5564	5463	5460	
60	5387	5311	5349	5489	5415	
65	5252	5681	5687	5560	5552	
70	5353	5576	5593	5683	5464	
75	5507	5350	5379	5605	5366	
80	5382	5547	5361	5371	5518	
85	5385	5721	5294	5341	5612	
90	5378	5621	5389	5457	5292	
95	5534	5497	5412	5374	5597	

Radar Type 6 30 trail						
Frequency List (MHz)	0	1	2	3	4	
0	5430	5717	5475	5711	5687	
5	5406	5490	5435	5276	5321	
10	5604	5574	5444	5295	5722	
15	5594	5414	5326	5536	5373	
20	5346	5546	5579	5675	5419	
25	5478	5558	5327	5658	5629	
30	5420	5674	5519	5559	5432	
35	5648	5488	5512	5513	5433	
40	5402	5329	5570	5599	5331	
45	5251	5624	5477	5266	5286	
50	5625	5317	5431	5518	5621	
55	5653	5279	5358	5343	5514	
60	5434	5650	5627	5413	5509	
65	5491	5660	5371	5545	5665	
70	5291	5467	5259	5338	5486	
75	5428	5528	5613	5481	5299	
80	5549	5309	5612	5695	5661	
85	5581	5422	5540	5386	5699	
90	5503	5446	5256	5462	5640	
95	5427	5377	5487	5398	5307	

7.4 Radar Characteristics for 40MHz bandwidth

Radar_Type_5_1_trail										
Waveform Num = 1 Num of Bursts = 16 Burst Interval (us)= 750000										
Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	493300	2	13	75	1799	1579	0	493300	0	749999
2	933313	3	5	80	1846	1667	1578	1429991	750000	1499999
3	246547	1	12	75	1519	0	0	1681629	1500000	2249999
4	833308	2	16	95	1765	1951	0	2516456	2250000	2999999
5	830072	2	17	90	1472	1183	0	3350244	3000000	3749999
6	996781	1	20	75	1365	0	0	4349680	3750000	4499999
7	520036	2	6	70	1805	1565	0	4871081	4500000	5249999
8	519981	2	17	100	1444	1386	0	5394432	5250000	5999999
9	969346	3	5	75	1128	1055	1387	6366608	6000000	6749999
10	655042	2	6	70	1326	1815	0	7025220	6750000	7499999
11	1199133	3	12	60	1202	1767	1647	8227494	7500000	8249999
12	534837	1	20	60	1672	0	0	8766947	8250000	8999999
13	653989	3	16	70	1190	1766	1507	9422608	9000000	9749999
14	622135	2	15	90	1957	1646	0	10049206	9750000	10499999
15	823657	1	17	65	1222	0	0	10876466	10500000	11249999
16	480702	1	8	95	1593	0	0	11358390	11250000	11999999
Total number of pulses in waveform = 31										

Radar_Type_5_2_trail										
Waveform Num = 2 Num of Bursts = 18 Burst Interval (us)= 666667										
Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	628294	2	6	50	1236	1707	0	628294	0	666666
2	562257	3	15	80	1059	1235	1244	1193494	666667	1333333
3	523097	3	8	70	1327	1769	1198	1720129	1333334	2000000
4	736550	2	13	75	1097	2000	0	2460973	2000001	2666667
5	309496	1	11	55	1365	0	0	2773566	2666668	3333334
6	858256	1	5	60	1161	0	0	3633187	3333335	4000001
7	573935	3	19	100	1875	1231	1310	4208283	4000002	4666668
8	825995	2	12	75	1562	1669	0	5038694	4666669	5333335
9	915209	3	14	100	1633	1550	1008	5957134	5333336	6000002
10	233470	2	15	85	1354	1390	0	6194795	6000003	6666669
11	690824	1	11	60	1451	0	0	6888363	6666670	7333336
12	1010951	2	6	55	1572	1521	0	7900765	7333337	8000003
13	225980	3	6	100	1857	1094	1233	8129838	8000004	8666670
14	893623	2	7	75	1018	1102	0	9027645	8666671	9333337
15	957932	3	6	55	1823	1864	1603	9987697	9333338	10000004
16	342120	2	18	60	1762	1733	0	10335107	10000005	10666671
17	566885	1	20	50	1202	0	0	10905487	10666672	11333338
18	548672	1	11	75	1835	0	0	11455361	11333339	12000005
Total number of pulses in waveform = 37										



Radar_Type_5_3_trail

Waveform Num = 3 Num of Bursts = 14 Burst Interval (us)= 857143

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 (us)	Start Loc Interval(us)	Start Burst Interval(us)	End Burst Interval(us)
1	61843	3	9	100	1578	1338	1461	61843	0	857142
2	1042067	3	20	85	1595	1909	1454	1108287	857143	1714285
3	1416219	2	5	85	1232	1170	0	2529464	1714286	2571428
4	545813	2	6	90	1833	1143	0	3077679	2571429	3428571
5	817684	1	13	80	1125	0	0	3898339	3428572	4285714
6	1127657	2	8	90	1521	1366	0	5027121	4285715	5142857
7	495399	1	19	55	1052	0	0	5525407	5142858	6000000
8	1198296	3	16	65	1208	1630	1163	6724755	6000001	6857143
9	829153	3	17	85	1801	1650	1775	7557909	6857144	7714286
10	222594	1	20	75	1958	0	0	7785729	7714287	8571429
11	786971	1	7	55	1197	0	0	8574658	8571430	9428572
12	1661804	3	6	100	1629	1885	1348	10237659	9428573	10285715
13	487120	1	19	50	1719	0	0	10729641	10285716	11142858
14	470551	3	11	50	1725	1948	1860	11201911	11142859	12000001

Total number of pulses in waveform = 29

Radar_Type_5_4_trail

Waveform Num = 4 Num of Bursts = 12 Burst Interval (us)= 1000000

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 (us)	Start Loc Interval(us)	Start Burst Interval(us)	End Burst Interval(us)
1	367272	3	20	95	1316	1572	1290	367272	0	999999
2	1149500	2	18	75	1062	1591	0	1520950	1000000	1999999
3	1002307	2	10	50	1560	1740	0	2525910	2000000	2999999
4	831369	1	15	75	1197	0	0	3360579	3000000	3999999
5	915877	2	19	100	1158	1728	0	4277653	4000000	4999999
6	1504572	2	20	55	1504	1604	0	5785111	5000000	5999999
7	593499	3	15	80	1590	1145	1636	6381718	6000000	6999999
8	743364	2	15	65	1909	1429	0	7129453	7000000	7999999
9	1707821	3	17	65	1585	1429	1414	8840612	8000000	8999999
10	252274	2	16	50	1973	1536	0	9097314	9000000	9999999
11	1751695	2	17	60	1961	1907	0	10852518	10000000	10999999
12	1121234	3	18	75	1159	1659	1432	11977620	11000000	11999999

Total number of pulses in waveform = 27



Radar_Type_5_5_trail

Waveform Num = 5 Num of Bursts = 15 Burst Interval (us)= 800000

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	189749	3	8	95	1757	1788	1780	189749	0	799999
	728570									
2	1058848	2	5	100	1376	1640	0	923644	800000	1599999
3	469565	1	10	60	1046	0	0	1985508	1600000	2399999
4	867651	2	16	85	1924	1427	0	2456119	2400000	3199999
5	1228905	3	17	100	1770	1408	1446	3327121	3200000	3999999
6	403921	2	11	80	1878	1212	0	4560650	4000000	4799999
7	760211	1	14	90	1003	0	0	4967661	4800000	5599999
8	1420319	3	13	85	1319	1629	1802	5728875	5600000	6399999
9	674403	3	5	85	1655	1247	1628	7153944	6400000	7199999
10	782480	3	9	75	1874	1815	1062	7832877	7200000	7999999
11	335912	1	18	50	1964	0	0	8620108	8000000	8799999
12	770610	2	5	90	1941	1818	0	8957984	8800000	9599999
13	1073152	3	7	50	1244	1963	1467	9732353	9600000	10399999
14	923985	3	6	70	1641	1816	1348	10810179	10400000	11199999
15		3	12	55	1924	1638	1681	11738969	11200000	11999999

Total number of pulses in waveform = 35

Radar_Type_5_6_trail

Waveform Num = 6 Num of Bursts = 17 Burst Interval (us)= 705882

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	475988	2	19	80	1263	1212	0	475988	0	705881
	235177									
2	1335571	1	14	50	1613	0	0	713640	705882	1411763
3	410532	2	15	80	1468	1585	0	2050824	1411764	2117645
4	904035	2	12	80	1820	1022	0	2464409	2117646	2823527
5	204383	3	5	70	1609	1978	1040	3371286	2823528	3529409
6	825886	2	15	75	1022	1069	0	3580296	3529410	4235291
7	584959	3	17	55	1560	1933	1937	4408273	4235292	4941173
8	833095	1	12	80	1024	0	0	4998662	4941174	5647055
9	1058528	3	17	85	1598	1478	1073	5832781	5647056	6352937
10	381996	3	14	90	1415	1068	1239	6895458	6352938	7058819
11	1076500	3	7	55	1813	1840	1333	7281176	7058820	7764701
12	487182	2	15	55	1120	1553	0	8362662	7764702	8470583
13	397744	1	6	70	1343	0	0	8852517	8470584	9176465
14	1009730	1	11	75	1691	0	0	9251604	9176466	9882347
15	961895	2	9	55	1821	1388	0	10263025	9882348	10588229
16	180470	2	18	95	1946	1034	0	11228129	10588230	11294111
17		1	17	65	1866	0	0	11411579	11294112	11999993

Total number of pulses in waveform = 34



Radar_Type_5_7_trail										
Waveform Num = 7 Num of Bursts = 11 Burst Interval (us)= 1090909										
Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	246420	3	12	80	1166	1655	1950	246420	0	1090908
2	937069	2	17	75	1133	1734	0	1188260	1090909	2181817
3	1145386	3	6	100	1798	1081	1897	2336513	2181818	3272726
4	1827852	1	13	65	1733	0	0	4169141	3272727	4363635
5	719255	1	6	65	1941	0	0	4890129	4363636	5454544
6	1605743	3	20	80	1789	1397	1777	6497813	5454545	6545453
7	460879	2	11	70	1209	1467	0	6963655	6545454	7636362
8	1032253	1	16	60	1491	0	0	7998584	7636363	8727271
9	929641	2	20	55	1057	1780	0	8929716	8727272	9818180
10	1050066	3	17	90	1047	1609	1676	9982619	9818181	10909089
11	1163894	3	15	60	1055	1125	1317	11150845	10909090	11999998
Total number of pulses in waveform = 24										

Radar_Type_5_8_trail										
Waveform Num = 8 Num of Bursts = 15 Burst Interval (us)= 800000										
Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	721713	3	20	50	1437	1331	1144	721713	0	799999
2	303243	3	5	80	1002	1236	1692	1028868	800000	1599999
3	837762	1	17	100	1120	0	0	1870560	1600000	2399999
4	1291760	1	15	65	1177	0	0	3163440	2400000	3199999
5	791130	2	11	80	1561	1095	0	3955747	3200000	3999999
6	815596	3	11	75	1158	1312	1141	4773999	4000000	4799999
7	89719	3	8	90	1563	1287	1212	4867329	4800000	5599999
8	765952	3	13	85	1517	1464	1380	5637343	5600000	6399999
9	945326	3	17	90	1116	1960	1074	6587030	6400000	7199999
10	657398	3	9	55	1298	1361	1344	7248578	7200000	7999999
11	956233	2	18	60	1752	1621	0	8208814	8000000	8799999
12	715654	2	10	70	1192	1874	0	8927841	8800000	9599999
13	1397861	3	10	70	1657	1891	1251	10328768	9600000	10399999
14	616287	3	14	60	1603	1927	1329	10949854	10400000	11199999
15	295001	3	19	80	1322	1598	1896	11249714	11200000	11999999
Total number of pulses in waveform = 38										



Radar_Type_5_9_trail										
Waveform Num = 9 Num of Bursts = 15 Burst Interval (us)= 800000										
Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	499025	1	18	85	1003	0	0	499025	0	799999
2	319995	1	6	75	1148	0	0	820023	800000	1599999
3	855164	1	13	60	1075	0	0	1676335	1600000	2399999
4	789098	1	6	95	1179	0	0	2466508	2400000	3199999
5	1059756	2	15	55	1122	1770	0	3527443	3200000	3999999
6	811426	1	13	75	1636	0	0	4341761	4000000	4799999
7	1138853	1	10	95	1227	0	0	5482250	4800000	5599999
8	715417	2	6	60	1034	1678	0	6198894	5600000	6399999
9	317721	3	16	55	1773	1593	1993	6519327	6400000	7199999
10	1376290	3	20	100	1612	1843	1757	7900976	7200000	7999999
11	616385	3	7	60	1889	1041	1130	8522573	8000000	8799999
12	481059	2	8	100	1710	1173	0	9007692	8800000	9599999
13	1378769	3	11	80	1492	1874	1900	10389344	9600000	10399999
14	255708	1	14	100	1452	0	0	10650318	10400000	11199999
15	813605	3	7	85	1128	1827	1205	11465375	11200000	11999999
Total number of pulses in waveform = 28										

Radar_Type_5_10_trail										
Waveform Num = 10										
Num of Bursts = 8										
Burst Interval (us)= 1500000										
Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	1142270	1	8	70	1426	0	0	1142270	0	1499999
2	717115	2	7	85	1831	1673	0	1860811	1500000	2999999
3	2055370	1	13	60	1521	0	0	3919685	3000000	4499999
4	2068146	3	12	75	1824	1960	1645	5989352	4500000	5999999
5	279774	2	16	95	1133	1082	0	6274555	6000000	7499999
6	2273569	2	13	80	1975	1464	0	8550339	7500000	8999999
7	1756572	3	8	65	1893	1458	1845	10310350	9000000	10499999
8	388869	3	11	65	1868	1326	1176	10704415	10500000	11999999
Total number of pulses in waveform = 17										



Radar_Type_5_11_trail

Waveform Num = 11
Num of Bursts = 14
Burst Interval (us)= 857143

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	773265	2	15	80	1399	1157	0	773265	0	857142
	131078									
2	1276381	3	8	75	1107	1079	1872	906899	857143	1714285
3	1066795	3	6	60	1134	1583	1669	2187338	1714286	2571428
4	293757	1	13	50	1893	0	0	3258519	2571429	3428571
5	773622	3	15	50	1205	1454	1556	3554169	3428572	4285714
6	1384741	2	15	50	1574	1871	0	4332006	4285715	5142857
7	1095415	2	17	95	1497	1195	0	5720192	5142858	6000000
8	255837	1	16	60	1078	0	0	6818299	6000001	6857143
9	1235019	3	9	75	1111	1072	1193	7075214	6857144	7714286
10	867335	2	12	80	1505	1950	0	8313609	7714287	8571429
11	866914	2	20	95	1843	1252	0	9184399	8571430	9428572
12	589778	3	11	85	1935	1798	1495	10054408	9428573	10285715
13	691212	2	15	100	1655	1156	0	10649414	10285716	11142858
14		1	7	85	1613	0	0	11343437	11142859	12000001

Total number of pulses in waveform = 30

Radar_Type_5_12_trail

Waveform Num = 12
Num of Bursts = 15
Burst Interval (us)= 800000

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	562791	1	16	90	1422	0	0	562791	0	799999
	950322									
2	592986	3	16	100	1460	1291	1310	1514535	800000	1599999
3	965243	2	14	50	1778	1852	0	2111582	1600000	2399999
4	630976	1	5	70	1091	0	0	3080455	2400000	3199999
5	648033	1	16	55	1964	0	0	3712522	3200000	3999999
6	626621	1	20	100	1211	0	0	4362519	4000000	4799999
7	821636	1	18	80	1843	0	0	4990351	4800000	5599999
8	710286	3	11	95	1787	1083	1800	5813830	5600000	6399999
9	1426528	3	18	65	1593	1313	1484	6528786	6400000	7199999
10	152174	3	14	70	1089	1980	1571	7959704	7200000	7999999
11	782709	2	7	50	1895	1813	0	8116518	8000000	8799999
12	838102	2	20	100	1035	1582	0	8902935	8800000	9599999
13	1050704	1	16	100	1113	0	0	9743654	9600000	10399999
14	1013753	3	14	70	1643	1244	1499	10795471	10400000	11199999
15		2	11	95	1942	1553	0	11813610	11200000	11999999

Total number of pulses in waveform = 29



Radar_Type_5_13_trail

Waveform Num = 13 Num of Bursts = 20 Burst Interval (us)= 600000										
Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 (us)	Start Loc Interval(us)	Start Burst Interval(us)	End Burst
1	524072	2	12	70	1884	1466	0	524072	0	599999
2	342491	2	9	90	1018	1397	0	869913	600000	1199999
3	653942	2	7	95	1820	1409	0	1526270	1200000	1799999
4	818401	3	11	55	1996	1963	1017	2347900	1800000	2399999
5	459282	1	18	55	1304	0	0	2812158	2400000	2999999
6	748235	3	18	95	1891	1091	1947	3561697	3000000	3599999
7	371220	2	19	70	1214	1805	0	3937846	3600000	4199999
8	429187	2	15	50	1747	1531	0	4370052	4200000	4799999
9	476222	3	19	100	1269	1193	1489	4849552	4800000	5399999
10	998040	3	10	50	1698	1603	1230	5851543	5400000	5999999
11	560755	2	14	60	1416	1334	0	6416829	6000000	6599999
12	708468	2	7	95	1077	1624	0	7128047	6600000	7199999
13	144333	1	12	80	1742	0	0	7275081	7200000	7799999
14	832849	3	15	95	1057	1079	1640	8109672	7800000	8399999
15	768966	3	16	80	1109	1721	1640	8882414	8400000	8999999
16	416497	3	9	55	1508	1914	1452	9303381	9000000	9599999
17	818726	2	12	75	1627	1632	0	10126981	9600000	10199999
18	374212	1	19	80	1891	0	0	10504452	10200000	10799999
19	495973	1	6	65	1068	0	0	11002316	10800000	11399999
20	785297	3	6	65	1966	1163	1648	11788681	11400000	11999999

Total number of pulses in waveform = 44

Radar_Type_5_14_trail

Waveform Num = 14 Num of Bursts = 20 Burst Interval (us)= 600000										
Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 (us)	Start Loc Interval(us)	Start Burst Interval(us)	End Burst
1	338072	2	10	90	1071	1768	0	338072	0	599999
2	537406	1	7	100	1167	0	0	878317	600000	1199999
3	861392	2	10	90	1348	1848	0	1740876	1200000	1799999
4	192968	2	6	50	1126	1689	0	1937040	1800000	2399999
5	815118	3	11	100	1340	1712	1553	2754973	2400000	2999999
6	350065	2	19	95	1742	1389	0	3109643	3000000	3599999
7	868201	3	12	75	1890	1714	1782	3980975	3600000	4199999
8	574798	3	8	80	1295	1737	1055	4561159	4200000	4799999
9	586710	1	5	55	1815	0	0	5151956	4800000	5399999
10	775416	2	18	85	1981	1861	0	5929187	5400000	5999999
11	572405	1	13	70	1684	0	0	6505434	6000000	6599999
12	253466	1	11	90	1701	0	0	6760584	6600000	7199999
13	611086	2	5	50	1223	1263	0	7373371	7200000	7799999
14	700682	1	7	55	1039	0	0	8076539	7800000	8399999
15	681453	1	9	85	1473	0	0	8759031	8400000	8999999
16	513338	2	16	75	1481	1682	0	9273842	9000000	9599999
17	705897	2	9	65	1706	1711	0	9982902	9600000	10199999
18	739454	3	19	85	1884	1848	1593	10725773	10200000	10799999
19	292235	1	5	85	1110	0	0	11023333	10800000	11399999
20	491712	3	13	55	1057	1983	1963	11516155	11400000	11999999

Total number of pulses in waveform = 38



Radar_Type_5_15_trail

Waveform Num = 15
Num of Bursts = 13
Burst Interval (us)= 923077

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc Interval(us)	Start Burst Interval(us)	End Burst Interval(us)
1	840610	1	17	80	1845	0	0	840610 0	923076	
2	298562 1243702	3	9	100	1403	1059	1581	1141017 923077	1846153	
3	1071376	2	20	50	1549	1015	0	2388762 1846154	2769230	
4	670787	2	7	70	1055	1959	0	3462702 2769231	3692307	
5	822098	3	14	100	1223	1996	1396	4136503 3692308	4615384	
6	647954	1	18	60	1254	0	0	4963216 4615385	5538461	
7	1081751	1	15	55	1270	0	0	5612424 5538462	6461538	
8	793552	1	13	50	1903	0	0	6695445 6461539	7384615	
9	1584211	1	8	90	1345	0	0	7490900 7384616	8307692	
10	270183	3	19	95	1038	1936	1979	9076456 8307693	9230769	
11	1189067	3	9	90	1955	1896	1542	9351592 9230770	10153846	
12	657124	3	6	75	1879	1218	1102	10546052 10153847	11076923	
13		2	13	65	1601	1472	0	11207375 11076924	12000000	

Total number of pulses in waveform = 25

Radar_Type_5_16_trail

Waveform Num = 16
Num of Bursts = 11
Burst Interval (us)= 1090909

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc Interval(us)	Start Burst Interval(us)	End Burst Interval(us)
1	694316	1	8	60	1692	0	0	694316 0	1090908	
2	616943	2	10	85	1069	1383	0	1312951 1090909	2181817	
3	1724879	3	5	100	1601	1998	1112	3040282 2181818	3272726	
4	1013757	3	15	90	1833	1654	1900	4058750 3272727	4363635	
5	861802	2	14	75	1062	1551	0	4925939 4363636	5454544	
6	1391929	3	9	95	1707	1722	1066	6320481 5454545	6545453	
7	526162	2	7	75	1190	1095	0	6851138 6545454	7636362	
8	1492496	3	11	85	1391	1169	1909	8345919 7636363	8727271	
9	831002	3	5	85	1363	1923	1203	9181390 8727272	9818180	
10	1264146	3	6	85	1190	1692	1949	10450025 9818181	10909089	
11	479227	2	19	90	1590	1925	0	10934083 10909090	11999998	

Total number of pulses in waveform = 27



Radar_Type_5_17_trail

Waveform Num = 17
Num of Bursts = 13
Burst Interval (us)= 923077

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	283614	2	20	50	1218	1153	0	283614	0	923076
2	1423569	1	6	70	1066	0	0	1709554	923077	1846153
3	369781	2	20	85	1875	1646	0	2080401	1846154	2769230
4	947950	2	8	90	1372	1624	0	3031872	2769231	3692307
5	881986	2	20	55	1180	1148	0	3916854	3692308	4615384
6	1012269	3	10	70	1964	1871	1231	4931451	4615385	5538461
7	1028349	1	12	85	1675	0	0	5964866	5538462	6461538
8	768667	2	19	65	1620	1834	0	6735208	6461539	7384615
9	1162699	1	7	90	1200	0	0	7901361	7384616	8307692
10	958683	1	14	100	1741	0	0	8861244	8307693	9230769
11	1234021	1	8	65	1962	0	0	10097006	9230770	10153846
12	485053	2	10	90	1483	1459	0	10584021	10153847	11076923
13	907454	1	6	50	1006	0	0	11494417	11076924	12000000

Total number of pulses in waveform = 21

Radar_Type_5_18_trail

Waveform Num = 18
Num of Bursts = 13
Burst Interval (us)= 923077

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	427895	1	18	50	1789	0	0	427895	0	923076
2	1381315	2	9	80	1474	1671	0	1810999	923077	1846153
3	772240	2	13	75	1890	1470	0	2586384	1846154	2769230
4	706074	1	11	100	1181	0	0	3295818	2769231	3692307
5	692456	3	7	90	1471	1136	1138	3989455	3692308	4615384
6	1406113	2	18	95	1133	1617	0	5399313	4615385	5538461
7	801350	1	5	100	1318	0	0	6203413	5538462	6461538
8	367387	3	12	50	1860	1114	1392	6572118	6461539	7384615
9	1188272	1	11	50	1185	0	0	7764756	7384616	8307692
10	1075774	3	7	65	1537	1175	1683	8841715	8307693	9230769
11	396630	2	17	55	1836	1349	0	9242740	9230770	10153846
12	959761	3	13	90	1367	1271	1074	10205686	10153847	11076923
13	1272980	1	10	50	1533	0	0	11482378	11076924	12000000

Total number of pulses in waveform = 25



Radar_Type_5_19_trail

Waveform Num = 19
Num of Bursts = 8
Burst Interval (us)= 1500000

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 (us)	Start Loc Interval(us)	Start Burst Interval(us)	End Burst
1	1256016	3	16	85	1760	1151	1947	1256016 0	1499999	
2	513333	3	19	85	1856	1308	1706	1774207 1500000	2999999	
3	2341343	3	14	80	1729	1298	1720	4120420 3000000	4499999	
4	589020	3	18	100	1096	1079	1785	4714187 4500000	5999999	
5	1732514	2	19	100	1778	1857	0	6450661 6000000	7499999	
6	1351480	1	15	85	1628	0	0	7805776 7500000	8999999	
7	2012732	2	13	90	1598	1888	0	9820136 9000000	10499999	
8	1083044	3	20	95	1720	1263	1571	10906666 10500000	11999999	

Total number of pulses in waveform = 20

Radar_Type_5_20_trail

Waveform Num = 20 Num of Bursts = 20 Burst Interval (us)= 600000

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 (us)	Start Loc Interval(us)	Start Burst Interval(us)	End Burst
1	505439	1	12	65	1855	0	0	505439 0	599999	
2	165641	2	17	65	1177	1183	0	672935 600000	1199999	
3	558993	1	14	95	1282	0	0	1234288 1200000	1799999	
4	804559	3	13	50	1458	1180	1925	2040129 1800000	2399999	
5	716229	2	12	100	1750	1015	0	2760921 2400000	2999999	
6	438881	3	12	60	1992	1507	1351	3202567 3000000	3599999	
7	686793	3	14	60	1488	1393	1630	3894210 3600000	4199999	
8	444231	3	17	55	1393	1493	1201	4342952 4200000	4799999	
9	565500	1	11	90	1765	0	0	4912539 4800000	5399999	
10	923559	1	5	100	1673	0	0	5837863 5400000	5999999	
11	219886	3	5	90	1842	1097	1724	6059422 6000000	6599999	
12	634408	3	16	100	1597	1025	1664	6698493 6600000	7199999	
13	849213	3	19	65	1451	1337	1679	7551992 7200000	7799999	
14	263466	1	15	55	1270	0	0	7819925 7800000	8399999	
15	668526	3	10	90	1609	1848	1945	8489721 8400000	8999999	
16	667110	1	10	80	1843	0	0	9162233 9000000	9599999	
17	1015552	1	19	75	1064	0	0	10179628 9600000	10199999	
18	374219	3	9	100	1726	1645	1038	10554911 10200000	10799999	
19	371511	1	13	60	1624	0	0	10930831 10800000	11399999	
20	860501	1	13	70	1687	0	0	11792956 11400000	11999999	

Total number of pulses in waveform = 40



Radar_Type_5_21_trail

Waveform Num = 21
Num of Bursts = 10
Burst Interval (us)= 1200000

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	488827	1	14	70	1440	0	0	488827	0	1199999
2	1431371	2	7	100	1771	1745	0	1921638	1200000	2399999
3	1005310	2	20	60	1420	1859	0	2930464	2400000	3599999
4	1000901	2	20	95	1666	1914	0	3934644	3600000	4799999
5	1954749	3	14	75	1444	1746	1657	5892973	4800000	5999999
6	192847	3	18	80	1502	2000	1927	6090667	6000000	7199999
7	1294680	1	11	85	1015	0	0	7390776	7200000	8399999
8	1230541	3	6	80	1518	1927	1977	8622332	8400000	9599999
9	1034614	3	10	55	1845	1121	1425	9662368	9600000	10799999
10	1888240	3	11	100	1800	1059	1014	11554999	10800000	11999999

Total number of pulses in waveform = 23

Radar_Type_5_22_trail

Waveform Num = 22 Num of Bursts = 20 Burst Interval (us)= 600000

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	426872	3	5	85	1309	1914	1803	426872	0	599999
2	414655	1	11	60	1759	0	0	846553	600000	1199999
3	933032	3	18	80	1974	1400	1654	1781344	1200000	1799999
4	180174	3	15	95	1776	1495	1931	1966546	1800000	2399999
5	1008455	3	16	55	1963	1103	1913	2980203	2400000	2999999
6	604146	3	8	75	1076	1434	1467	3589328	3000000	3599999
7	255927	3	20	85	1598	1714	1902	3849232	3600000	4199999
8	564259	2	8	70	1110	1211	0	4418705	4200000	4799999
9	497829	3	15	50	1653	1891	1787	4918855	4800000	5399999
10	933815	3	16	75	1964	1041	1894	5858001	5400000	5999999
11	181790	3	20	50	1451	1359	1668	6044690	6000000	6599999
12	787376	2	5	55	1575	1603	0	6836544	6600000	7199999
13	729530	2	17	75	1285	1647	0	7569252	7200000	7799999
14	428199	1	17	50	1683	0	0	8000383	7800000	8399999
15	976056	3	11	50	1198	1397	1212	8978122	8400000	8999999
16	230986	3	5	65	1743	1576	1557	9212915	9000000	9599999
17	931424	1	18	75	1747	0	0	10149215	9600000	10199999
18	333824	1	17	80	1432	0	0	10484786	10200000	10799999
19	425455	3	7	95	1380	1023	1320	10911673	10800000	11399999
20	867864	3	9	75	1131	1086	1494	11783260	11400000	11999999

Total number of pulses in waveform = 49



Radar_Type_5_23_trail

Waveform Num = 23
Num of Bursts = 14
Burst Interval (us)= 857143

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc Interval(us)	Start Burst Interval(us)	End Burst Interval(us)
1	175722	2	8	65	1107	1420	0	175722 0	857142	
2	726986	3	9	80	1843	1471	1159	905235 857143	1714285	
3	1297682	2	11	90	1261	1617	0	2207390 1714286	2571428	
4	1086445	1	9	85	1354	0	0	3296713 2571429	3428571	
5	549595	3	19	55	1773	1538	1008	3847662 3428572	4285714	
6	1147923	3	10	65	1617	1273	1567	4999904 4285715	5142857	
7	688978	3	9	85	1445	1102	1949	5693339 5142858	6000000	
8	432054	3	18	75	1433	1018	1625	6129889 6000001	6857143	
9	1115767	1	5	95	1164	0	0	7249732 6857144	7714286	
10	766039	3	16	85	1369	1774	1416	8016935 7714287	8571429	
11	1311022	2	12	50	1318	1323	0	9332516 8571430	9428572	
12	307005	2	13	55	1160	1646	0	9642162 9428573	10285715	
13	1172378	3	9	60	1815	1210	1853	10817346 10285716	11142858	
14	545531	2	8	70	1390	1538	0	11367755 11142859	12000001	

Total number of pulses in waveform = 33

Radar_Type_5_24_trail

Waveform Num = 23
Num of Bursts = 14
Burst Interval (us)= 857143

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc Interval(us)	Start Burst Interval(us)	End Burst Interval(us)
1	175722	2	8	65	1107	1420	0	175722 0	857142	
2	726986	3	9	80	1843	1471	1159	905235 857143	1714285	
3	1297682	2	11	90	1261	1617	0	2207390 1714286	2571428	
4	1086445	1	9	85	1354	0	0	3296713 2571429	3428571	
5	549595	3	19	55	1773	1538	1008	3847662 3428572	4285714	
6	1147923	3	10	65	1617	1273	1567	4999904 4285715	5142857	
7	688978	3	9	85	1445	1102	1949	5693339 5142858	6000000	
8	432054	3	18	75	1433	1018	1625	6129889 6000001	6857143	
9	1115767	1	5	95	1164	0	0	7249732 6857144	7714286	
10	766039	3	16	85	1369	1774	1416	8016935 7714287	8571429	
11	1311022	2	12	50	1318	1323	0	9332516 8571430	9428572	
12	307005	2	13	55	1160	1646	0	9642162 9428573	10285715	
13	1172378	3	9	60	1815	1210	1853	10817346 10285716	11142858	
14	545531	2	8	70	1390	1538	0	11367755 11142859	12000001	

Total number of pulses in waveform = 33



Radar_Type_5_25_trail

Waveform Num = 25 Num of Bursts = 19 Burst Interval (us)= 631579										
Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc Interval(us)	Start Burst Interval(us)	End Burst Interval(us)
1	161956	2	5	60	1849	1936	0	161956	0	631578
2	745960	2	12	55	1027	1365	0	911701	631579	1263157
3	830455	2	18	90	1310	1116	0	1744548	1263158	1894736
4	296720	2	7	90	1298	1786	0	2043694	1894737	2526315
5	854283	2	7	75	1268	1999	0	2901061	2526316	3157894
6	685785	2	13	55	1776	1118	0	3590113	3157895	3789473
7	382708	2	13	80	1409	1462	0	3975715	3789474	4421052
8	784619	3	15	70	1306	1267	1770	4763205	4421053	5052631
9	292288	1	19	60	1855	0	0	5059836	5052632	5684210
10	990270	3	11	70	1538	1722	1706	6051961	5684211	6315789
11	794964	1	19	85	1534	0	0	6851891	6315790	6947368
12	235018	1	5	100	1036	0	0	7088443	6947369	7578947
13	799629	3	10	60	1332	1609	1672	7889108	7578948	8210526
14	870814	3	6	80	1641	1693	1449	8764535	8210527	8842105
15	106598	1	13	100	1291	0	0	8875916	8842106	9473684
16	960906	3	19	55	1074	1398	1067	9838113	9473685	10105263
17	376092	1	20	55	1573	0	0	10217744	10105264	10736842
18	755327	1	16	85	1804	0	0	10974644	10736843	11368421
19	640210	2	15	90	1503	1941	0	11616658	11368422	12000000
Total number of pulses in waveform = 37										

Radar_Type_5_26_trail

Waveform Num = 26 Num of Bursts = 17 Burst Interval (us)= 705882										
Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc Interval(us)	Start Burst Interval(us)	End Burst Interval(us)
1	578309	3	8	95	1737	1435	1388	578309	0	705881
2	373170	1	11	90	1284	0	0	956039	705882	1411763
3	642781	1	11	95	1559	0	0	1600104	1411764	2117645
4	1111000	3	20	55	1044	1967	1869	2712663	2117646	2823527
5	386140	3	13	50	1026	1637	1072	3103683	2823528	3529409
6	949025	1	10	65	1418	0	0	4056443	3529410	4235291
7	183171	1	16	95	1797	0	0	4241032	4235292	4941173
8	843136	2	9	75	1700	1511	0	5085965	4941174	5647055
9	892227	2	18	85	1341	1317	0	5981403	5647056	6352937
10	842825	3	8	50	1463	1910	1691	6826886	6352938	7058819
11	651835	2	5	60	1185	1685	0	7483785	7058820	7764701
12	674073	1	19	90	1972	0	0	8160728	7764702	8470583
13	312561	2	17	65	1266	1757	0	8475261	8470584	9176465
14	889135	1	18	90	1239	0	0	9367419	9176466	9882347
15	1038007	1	18	50	1587	0	0	10406665	9882348	10588229
16	291779	1	20	50	1171	0	0	10700031	10588230	11294111
17	646862	2	5	70	1577	1017	0	11348064	11294112	11999993
Total number of pulses in waveform = 30										



Radar_Type_5_27_trail

Waveform Num = 27
Num of Bursts = 16
Burst Interval (us) = 750000

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 (us)	Start Loc Interval(us)	Start Burst Interval(us)	End Burst Interval(us)
1	45408	3	16	85	1636	1777	1304	45408 0	749999	
2	1069917	1	8	95	1984	0	0	1120042 750000	1499999	
3	712673	2	7	80	1799	1134	0	1834699 1500000	2249999	
4	698862	3	15	65	1194	1251	1060	2536494 2250000	2999999	
5	1079382	1	6	50	1008	0	0	3619381 3000000	3749999	
6	525247	2	10	70	1943	1343	0	4145636 3750000	4499999	
7	1039396	2	20	75	1189	1052	0	5188318 4500000	5249999	
8	250680	1	12	60	1715	0	0	5441239 5250000	5999999	
9	1007063	3	6	65	1228	1152	1787	6450017 6000000	6749999	
10	951169	1	17	80	1111	0	0	7405353 6750000	7499999	
11	207527	1	13	65	1765	0	0	7613991 7500000	8249999	
12	1166624	3	18	65	1647	1779	1192	8782380 8250000	8999999	
13	442854	1	17	85	1417	0	0	9229852 9000000	9749999	
14	626572	2	12	75	1302	1096	0	9857841 9750000	10499999	
15	944186	3	11	65	1167	1899	1418	10804425 10500000	11249999	
16	903614	3	6	75	1639	1207	1388	11712523 11250000	11999999	

Total number of pulses in waveform = 32

Radar_Type_5_28_trail

Waveform Num = 28 Num of Bursts = 20 Burst Interval (us) = 600000

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 (us)	Start Loc Interval(us)	Start Burst Interval(us)	End Burst Interval(us)
1	281028	2	11	85	1064	1972	0	281028 0	599999	
2	825078	3	9	75	1704	1192	1768	1109142 600000	1199999	
3	151298	2	6	95	1266	1093	0	1265104 1200000	1799999	
4	1114687	1	7	90	1726	0	0	2382150 1800000	2399999	
5	170428	2	19	95	1950	1095	0	2554304 2400000	2999999	
6	659149	2	16	70	1609	1652	0	3216498 3000000	3599999	
7	402569	2	16	55	1679	1664	0	3622328 3600000	4199999	
8	738733	2	15	90	1745	1588	0	4364404 4200000	4799999	
9	544799	2	7	85	1223	1948	0	4912536 4800000	5399999	
10	1050645	2	10	100	1357	1849	0	5966352 5400000	5999999	
11	577208	3	16	100	1588	1365	1143	6546766 6000000	6599999	
12	329667	3	15	55	1250	1129	1916	6880529 6600000	7199999	
13	890422	2	20	85	1241	1062	0	7775246 7200000	7799999	
14	481179	1	10	55	1933	0	0	8258728 7800000	8399999	
15	317921	3	6	75	1273	1211	1842	8578582 8400000	8999999	
16	733825	3	17	90	1949	1074	1645	9316733 9000000	9599999	
17	671822	3	10	100	1625	1053	1999	9993223 9600000	10199999	
18	410321	2	14	100	1982	1054	0	10408221 10200000	10799999	
19	712639	3	9	70	1298	1868	1995	11123896 10800000	11399999	
20	693876	3	10	55	1833	1909	1248	11822933 11400000	11999999	

Total number of pulses in waveform = 46



Radar_Type_5_29_trail

Waveform Num = 29
Num of Bursts = 11
Burst Interval (us)= 1090909

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	362459	1	11	60	1841	0	0	362459	0	1090908
2	1120958	1	6	70	1274	0	0	1485258	1090909	2181817
3	1736069	2	10	90	1640	1851	0	3222601	2181818	3272726
4	558413	1	7	80	1767	0	0	3784505	3272727	4363635
5	825741	3	18	80	1850	1280	1803	4612013	4363636	5454544
6	1364787	2	7	70	1953	1397	0	5981733	5454545	6545453
7	654971	1	17	80	1900	0	0	6640054	6545454	7636362
8	1920012	3	5	70	1335	1003	1218	8561966	7636363	8727271
9	193503	1	9	100	1953	0	0	8759025	8727272	9818180
10	1451279	1	14	65	1671	0	0	10212257	9818181	10909089
11	1292875	3	19	70	1673	1407	1694	11506803	10909090	11999998

Total number of pulses in waveform = 19

Radar_Type_5_30_trail

Waveform Num = 30
Num of Bursts = 12
Burst Interval (us)= 1000000

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	173372	1	15	85	1281	0	0	173372	0	999999
2	1287687	1	14	90	1267	0	0	1462340	1000000	1999999
3	904257	3	16	70	1400	1635	1403	2367864	2000000	2999999
4	719204	2	16	65	1123	1780	0	3091506	3000000	3999999
5	1846866	3	15	55	1244	1893	1702	4941275	4000000	4999999
6	100341	2	20	60	1487	1773	0	5046455	5000000	5999999
7	1840668	2	7	60	1400	1409	0	6890383	6000000	6999999
8	238969	1	20	80	1767	0	0	7132161	7000000	7999999
9	1607329	1	14	100	1008	0	0	8741257	8000000	8999999
10	650083	1	15	90	1403	0	0	9392348	9000000	9999999
11	809393	3	18	100	1137	1898	1756	10203144	10000000	10999999
12	1784429	2	16	95	1067	1348	0	11992364	11000000	11999999

Total number of pulses in waveform = 22

Radar Type 6 1 trail					
Frequency List (MHz)	0	1	2	3	4
0	5384	5717	5334	5705	5549
5	5312	5260	5635	5503	5570
10	5347	5508	5292	5447	5588
15	5621	5638	5296	5482	5455
20	5636	5593	5434	5306	5411
25	5556	5378	5478	5432	5341
30	5438	5294	5496	5285	5327
35	5293	5502	5277	5403	5330
40	5612	5720	5544	5615	5561
45	5676	5704	5366	5290	5387
50	5278	5723	5383	5368	5263
55	5630	5375	5718	5281	5604
60	5453	5509	5479	5400	5262
65	5354	5467	5545	5466	5611
70	5715	5402	5568	5641	5396
75	5567	5557	5674	5359	5392
80	5313	5537	5258	5475	5272
85	5388	5474	5555	5410	5355
90	5517	5382	5386	5664	5697
95	5721	5268	5489	5706	5525

Radar Type 6 2 trail					
Frequency List (MHz)	0	1	2	3	4
0	5619	5578	5270	5294	5354
5	5660	5710	5666	5399	5656
10	5297	5333	5642	5609	5709
15	5668	5527	5647	5547	5284
20	5375	5395	5384	5444	5705
25	5584	5536	5480	5658	5453
30	5403	5576	5588	5641	5465
35	5674	5580	5623	5559	5627
40	5553	5704	5673	5633	5724
45	5373	5348	5331	5513	5637
50	5544	5314	5585	5697	5257
55	5672	5471	5423	5424	5638
60	5644	5345	5569	5655	5413
65	5271	5415	5550	5371	5335
70	5382	5416	5533	5706	5558
75	5535	5692	5256	5436	5716
80	5385	5669	5458	5349	5456
85	5336	5634	5703	5352	5280
90	5506	5313	5690	5326	5631
95	5628	5546	5289	5490	5590

Radar Type 6 3 trail					
Frequency List (MHz)	0	1	2	3	4
0	5302	5342	5681	5455	5611
5	5493	5682	5310	5257	5606
10	5587	5561	5374	5362	5630
15	5322	5320	5502	5475	5364
20	5555	5353	5316	5387	5357
25	5332	5654	5312	5262	5409
30	5522	5547	5410	5618	5253
35	5311	5683	5556	5470	5258
40	5537	5398	5710	5491	5469
45	5670	5465	5704	5456	5406
50	5384	5400	5513	5720	5365
55	5296	5276	5641	5445	5626
60	5564	5620	5395	5334	5290
65	5401	5578	5359	5569	5586
70	5282	5649	5407	5368	5647
75	5643	5509	5592	5675	5678
80	5581	5275	5381	5512	5600
85	5304	5382	5389	5458	5666
90	5419	5642	5350	5526	5519
95	5709	5692	5418	5653	5354

Radar Type 6 4 trail					
Frequency List (MHz)	0	1	2	3	4
0	5557	5581	5617	5616	5356
5	5535	5704	5385	5420	5338
10	5518	5350	5415	5651	5313
15	5447	5605	5520	5653	5563
20	5519	5257	5476	5330	5598
25	5506	5515	5366	5443	5661
30	5533	5367	5358	5502	5606
35	5347	5647	5266	5411	5451
40	5334	5332	5709	5667	5394
45	5684	5539	5464	5437	5665
50	5389	5421	5416	5574	5488
55	5536	5580	5279	5439	5324
60	5499	5710	5708	5404	5305
65	5295	5525	5589	5359	5452
70	5576	5272	5492	5368	5551
75	5547	5323	5724	5256	5721
80	5293	5379	5584	5361	5508
85	5479	5693	5341	5655	5715
90	5629	5494	5401	5637	5423
95	5280	5316	5662	5281	5649

Radar Type 6 5 trail					
Frequency List (MHz)	0	1	2	3	4
0	5337	5345	5553	5302	5673
5	5577	5629	5460	5583	5642
10	5352	5614	5456	5655	5672
15	5401	5574	5611	5565	5370
20	5571	5588	5295	5468	5303
25	5486	5358	5718	5470	5380
30	5703	5422	5324	5573	5654
35	5426	5263	5634	5661	5462
40	5648	5498	5270	5474	5664
45	5701	5622	5425	5490	5552
50	5265	5597	5467	5300	5432
55	5724	5437	5469	5258	5715
60	5453	5277	5637	5705	5348
65	5593	5262	5561	5251	5255
70	5275	5341	5364	5510	5516
75	5346	5712	5504	5549	5356
80	5527	5376	5264	5447	5442
85	5454	5658	5428	5544	5374
90	5343	5663	5478	5689	5384
95	5372	5707	5274	5292	5466

Radar Type 6 6 trail					
Frequency List (MHz)	0	1	2	3	4
0	5592	5584	5489	5463	5418
5	5619	5651	5535	5271	5374
10	5283	5500	5594	5375	5693
15	5604	5714	5610	5562	5482
20	5279	5711	5557	5276	5277
25	5307	5446	5574	5414	5270
30	5408	5281	5691	5428	5624
35	5625	5354	5430	5339	5376
40	5487	5581	5683	5617	5630
45	5644	5705	5483	5342	5519
50	5298	5518	5563	5598	5437
55	5391	5659	5455	5666	5582
60	5697	5469	5628	5294	5319
65	5597	5631	5521	5436	5423
70	5278	5665	5340	5485	5466
75	5438	5315	5275	5614	5330
80	5520	5590	5596	5264	5289
85	5405	5646	5526	5346	5676
90	5267	5539	5349	5600	5258
95	5671	5533	5345	5587	5523

Radar Type 6_7 trail					
Frequency List (MHz)	0	1	2	3	4
0	5372	5348	5425	5624	5260
5	5283	5576	5610	5434	5581
10	5689	5289	5635	5570	5714
15	5577	5256	5342	5558	5279
20	5490	5652	5549	5724	5640
25	5634	5552	5300	5448	5409
30	5297	5713	5431	5580	5444
35	5667	5445	5701	5492	5290
40	5326	5286	5621	5362	5280
45	5559	5313	5541	5499	5704
50	5395	5474	5569	5274	5421
55	5698	5625	5345	5374	5657
60	5711	5519	5642	5301	5454
65	5715	5520	5536	5366	5413
70	5414	5378	5417	5316	5428
75	5357	5586	5484	5296	5430
80	5627	5684	5653	5273	5606
85	5465	5363	5491	5352	5355
90	5518	5631	5688	5588	5329
95	5485	5502	5590	5390	5531

Radar Type 6_8 trail					
Frequency List (MHz)	0	1	2	3	4
0	5530	5587	5361	5310	5480
5	5325	5598	5685	5500	5410
10	5523	5553	5676	5290	5260
15	5568	5383	5445	5603	5471
20	5498	5514	5690	5638	5697
25	5431	5583	5280	5404	5482
30	5451	5661	5670	5646	5354
35	5642	5331	5633	5594	5267
40	5301	5640	5369	5559	5622
45	5277	5391	5507	5396	5502
50	5552	5494	5271	5650	5620
55	5363	5719	5545	5338	5299
60	5564	5628	5268	5684	5608
65	5283	5343	5584	5572	5673
70	5683	5517	5492	5361	5266
75	5292	5387	5326	5706	5627
80	5682	5262	5367	5276	5716
85	5270	5511	5428	5458	5359
90	5351	5600	5285	5394	5571
95	5400	5265	5327	5643	5313

Radar Type 6 9 trail					
Frequency List (MHz)	0	1	2	3	4
0	5310	5351	5297	5374	5322
5	5367	5523	5285	5663	5617
10	5454	5342	5717	5485	5281
15	5656	5510	5548	5648	5409
20	5680	5631	5630	5670	5319
25	5435	5483	5508	5516	5493
30	5647	5627	5386	5506	5462
35	5470	5724	5390	5420	5690
40	5576	5452	5497	5387	5274
45	5320	5487	5479	5560	5605
50	5381	5622	5671	5445	5489
55	5526	5253	5279	5502	5397
60	5629	5440	5678	5704	5544
65	5533	5608	5408	5478	5655
70	5481	5590	5268	5346	5673
75	5254	5295	5258	5459	5372
80	5623	5401	5267	5706	5545
85	5488	5650	5324	5305	5373
90	5559	5464	5660	5344	5698
95	5394	5378	5363	5321	5311

Radar Type 6 10 trail					
Frequency List (MHz)	0	1	2	3	4
0	5565	5590	5708	5535	5542
5	5409	5545	5360	5351	5349
10	5288	5606	5283	5583	5302
15	5269	5637	5554	5693	5380
20	5417	5274	5572	5719	5643
25	5682	5287	5686	5612	5550
30	5632	5536	5584	5504	5280
35	5660	5512	5340	5661	5573
40	5604	5415	5435	5530	5271
45	5627	5467	5562	5618	5658
50	5646	5401	5527	5722	5541
55	5268	5336	5714	5372	5473
60	5526	5539	5574	5369	5650
65	5367	5482	5547	5715	5370
70	5598	5252	5464	5484	5439
75	5622	5305	5642	5374	5341
80	5711	5385	5404	5264	5523
85	5448	5326	5451	5270	5667
90	5356	5621	5303	5724	5470
95	5639	5386	5361	5278	5378

Radar Type 6 11 trail					
Frequency List (MHz)	0	1	2	3	4
0	5345	5354	5644	5696	5384
5	5548	5470	5435	5514	5653
10	5694	5492	5324	5303	5323
15	5357	5667	5657	5641	5572
20	5425	5440	5610	5711	5616
25	5473	5414	5338	5584	5674
30	5541	5719	5432	5480	5651
35	5431	5457	5348	5615	5254
40	5715	5373	5295	5365	5556
45	5447	5645	5579	5533	5277
50	5703	5298	5252	5566	5280
55	5330	5636	5562	5403	5444
60	5655	5704	5519	5676	5427
65	5596	5568	5583	5450	5640
70	5304	5421	5547	5288	5598
75	5264	5494	5484	5695	5488
80	5495	5660	5293	5527	5639
85	5718	5351	5643	5511	5462
90	5632	5310	5394	5501	5476
95	5576	5327	5378	5333	5362

Radar Type 6 12 trail					
Frequency List (MHz)	0	1	2	3	4
0	5503	5593	5580	5382	5604
5	5590	5492	5510	5385	5625
10	5281	5365	5498	5344	5348
15	5319	5285	5686	5386	5336
20	5509	5551	5325	5589	5361
25	5563	5520	5442	5618	5716
30	5411	5459	5681	5300	5315
35	5522	5350	5501	5529	5568
40	5323	5689	5535	5362	5485
45	5427	5253	5637	5667	5628
50	5404	5349	5341	5389	5602
55	5518	5277	5697	5415	5309
60	5394	5464	5508	5639	5391
65	5380	5282	5532	5582	5493
70	5533	5587	5515	5574	5698
75	5483	5614	5530	5676	5265
80	5605	5441	5360	5636	5438
85	5351	5474	5654	5500	5642
90	5321	5579	5482	5610	5684
95	5388	5443	5547	5581	5527

Radar Type 6 13 trail					
Frequency List (MHz)	0	1	2	3	4
0	5283	5357	5516	5543	5446
5	5632	5417	5585	5268	5592
10	5459	5545	5406	5693	5365
15	5436	5388	5256	5578	5344
20	5675	5492	5317	5562	5627
25	5512	5723	5546	5652	5380
30	5300	5455	5674	5358	5498
35	5454	5710	5621	5654	5443
40	5504	5678	5359	5407	5336
45	5695	5720	5685	5580	5400
50	5430	5687	5706	5544	5467
55	5419	5289	5438	5559	5506
60	5340	5554	5329	5558	5327
65	5385	5662	5519	5590	5364
70	5550	5657	5355	5259	5673
75	5420	5618	5697	5524	5275
80	5633	5254	5424	5534	5274
85	5465	5315	5415	5269	5488
90	5547	5566	5616	5509	5427
95	5445	5560	5636	5347	5432

Radar Type 6 14 trail					
Frequency List (MHz)	0	1	2	3	4
0	5538	5596	5452	5704	5666
5	5674	5439	5660	5431	5324
10	5390	5334	5544	5413	5386
15	5524	5573	5491	5301	5295
20	5352	5269	5530	5406	5535
25	5515	5364	5451	5650	5686
30	5422	5664	5412	5317	5607
35	5318	5496	5326	5417	5429
40	5454	5343	5489	5565	5443
45	5356	5721	5387	5419	5656
50	5298	5475	5283	5281	5519
55	5393	5498	5657	5713	5260
60	5470	5724	5647	5477	5531
65	5278	5594	5597	5663	5259
70	5505	5690	5688	5526	5282
75	5719	5638	5672	5253	5478
80	5338	5630	5450	5632	5266
85	5497	5466	5333	5366	5339
90	5434	5591	5581	5351	5250
95	5411	5442	5264	5545	5527

Radar Type 6 15 trail					
Frequency List (MHz)	0	1	2	3	4
0	5318	5360	5388	5390	5508
5	5338	5364	5260	5594	5628
10	5321	5598	5585	5511	5407
15	5612	5700	5497	5724	5487
20	5263	5435	5471	5398	5306
25	5691	5654	5279	5720	5464
30	5650	5369	5532	5284	5516
35	5635	5417	5310	5582	5368
40	5657	5669	5503	5683	5353
45	5553	5270	5502	5714	5351
50	5362	5634	5457	5608	5711
55	5337	5607	5452	5372	5706
60	5599	5414	5396	5576	5303
65	5574	5616	5702	5533	5534
70	5489	5466	5428	5588	5693
75	5537	5478	5293	5402	5387
80	5716	5449	5266	5259	5377
85	5401	5627	5645	5632	5583
90	5557	5561	5298	5320	5339
95	5597	5518	5708	5262	5543

Radar Type 6 16 trail					
Frequency List (MHz)	0	1	2	3	4
0	5573	5599	5324	5551	5253
5	5380	5386	5335	5660	5360
10	5630	5484	5626	5706	5428
15	5603	5255	5600	5294	5679
20	5271	5504	5412	5487	5481
25	5669	5640	5382	5480	5279
30	5506	5539	5326	5272	5533
35	5336	5299	5508	5581	5260
40	5282	5496	5277	5441	5448
45	5447	5482	5250	5585	5297
50	5404	5627	5510	5633	5553
55	5319	5534	5659	5320	5406
60	5562	5351	5677	5579	5438
65	5408	5604	5520	5342	5651
70	5569	5366	5284	5647	5500
75	5574	5318	5289	5381	5437
80	5522	5530	5697	5701	5376
85	5515	5444	5561	5624	5365
90	5535	5278	5641	5371	5587
95	5357	5552	5493	5560	5608

Radar Type 6 17 trail					
Frequency List (MHz)	0	1	2	3	4
0	5256	5460	5260	5615	5570
5	5422	5311	5410	5348	5567
10	5561	5273	5667	5426	5449
15	5691	5382	5703	5339	5396
20	5279	5670	5353	5479	5454
25	5557	5492	5488	5584	5313
30	5645	5525	5283	5487	5685
35	5534	5341	5599	5377	5413
40	5671	5335	5360	5379	5591
45	5444	5411	5705	5668	5258
50	5457	5514	5289	5334	5604
55	5408	5357	5603	5263	5655
60	5548	5551	5269	5383	5715
65	5527	5466	5640	5600	5508
70	5576	5651	5450	5669	5560
75	5321	5613	5609	5642	5678
80	5478	5486	5296	5608	5624
85	5524	5438	5364	5580	5470
90	5606	5325	5555	5489	5375
95	5480	5674	5663	5282	5573

Radar Type 6 18 trail					
Frequency List (MHz)	0	1	2	3	4
0	5511	5699	5671	5301	5315
5	5464	5333	5485	5396	5492
10	5537	5708	5621	5470	5304
15	5509	5331	5287	5588	5665
20	5264	5391	5568	5427	5348
25	5441	5691	5688	5347	5687
30	5414	5715	5605	5459	5354
35	5480	5312	5648	5663	5682
40	5271	5540	5317	5356	5718
45	5685	5276	5316	5413	5640
50	5510	5655	5497	5558	5450
55	5599	5692	5370	5367	5522
60	5434	5328	5547	5353	5412
65	5366	5549	5544	5408	5446
70	5253	5266	5546	5421	5462
75	5355	5481	5719	5659	5633
80	5499	5552	5297	5521	5280
85	5438	5681	5543	5565	5474
90	5279	5608	5375	5619	5712
95	5523	5257	5541	5507	5261

Radar Type 6 19 trail					
Frequency List (MHz)	0	1	2	3	4
0	5291	5463	5607	5462	5632
5	5603	5258	5560	5674	5326
10	5274	5341	5491	5392	5636
15	5434	5332	5305	5673	5430
20	5400	5711	5293	5419	5317
25	5381	5254	5303	5672	5345
30	5611	5649	5619	5403	5541
35	5596	5585	5623	5633	5438
40	5647	5665	5359	5374	5466
45	5666	5516	5589	5706	5586
50	5394	5312	5646	5661	5493
55	5543	5599	5273	5476	5276
60	5455	5664	5498	5580	5618
65	5338	5531	5435	5629	5424
70	5311	5309	5314	5450	5310
75	5290	5640	5410	5609	5333
80	5461	5275	5518	5572	5620
85	5506	5282	5342	5330	5573
90	5718	5557	5517	5601	5708
95	5298	5525	5405	5304	5682

Radar Type 6 20 trail					
Frequency List (MHz)	0	1	2	3	4
0	5546	5702	5543	5623	5377
5	5645	5280	5635	5265	5335
10	5257	5590	5315	5439	5512
15	5383	5288	5440	5594	5681
20	5596	5273	5649	5373	5502
25	5620	5622	5518	5415	5393
30	5289	5629	5560	5385	5372
35	5283	5494	5337	5510	5424
40	5706	5571	5361	5435	5479
45	5442	5519	5456	5392	5290
50	5282	5297	5679	5716	5500
55	5600	5275	5464	5672	5308
60	5577	5401	5390	5447	5450
65	5608	5334	5507	5615	5524
70	5285	5322	5430	5433	5621
75	5662	5719	5589	5528	5515
80	5292	5462	5566	5307	5284
85	5296	5474	5724	5399	5710
90	5250	5353	5509	5303	5597
95	5407	5428	5562	5678	5300

Radar Type 6 21 trail					
Frequency List (MHz)	0	1	2	3	4
0	5704	5466	5479	5309	5597
5	5687	5680	5710	5428	5639
10	5566	5379	5356	5634	5533
15	5471	5318	5543	5422	5311
20	5592	5665	5641	5443	5390
25	5569	5350	5622	5449	5435
30	5653	5586	5300	5537	5667
35	5325	5585	5608	5269	5521
40	5263	5314	5509	5504	5529
45	5408	5528	5525	5393	5572
50	5343	5646	5333	5386	5502
55	5660	5688	5554	5465	5677
60	5338	5326	5454	5260	5615
65	5403	5347	5591	5396	5555
70	5515	5579	5601	5527	5387
75	5261	5707	5291	5550	5602
80	5439	5257	5370	5692	5498
85	5512	5487	5719	5401	5650
90	5335	5402	5255	5659	5722
95	5364	5493	5676	5510	5700

Radar Type 6 22 trail					
Frequency List (MHz)	0	1	2	3	4
0	5484	5705	5415	5470	5439
5	5351	5702	5310	5591	5371
10	5497	5265	5494	5354	5554
15	5559	5445	5646	5370	5503
20	5600	5356	5252	5255	5416
25	5656	5421	5456	5251	5483
30	5477	5542	5543	5418	5311
35	5390	5464	5676	5501	5422
40	5435	5674	5447	5269	5526
45	5337	5508	5608	5451	5625
50	5522	5642	5384	5475	5703
55	5507	5401	5655	5496	5309
60	5455	5619	5680	5326	5414
65	5345	5492	5295	5318	5273
70	5587	5530	5711	5615	5666
75	5638	5670	5622	5583	5691
80	5367	5626	5381	5561	5412
85	5682	5718	5589	5286	5289
90	5553	5314	5329	5261	5465
95	5541	5463	5574	5671	5458

Radar Type 6 23 trail					
Frequency List (MHz)	0	1	2	3	4
0	5264	5469	5351	5631	5659
5	5393	5627	5385	5279	5578
10	5428	5529	5535	5549	5575
15	5647	5572	5274	5415	5695
20	5608	5425	5668	5722	5389
25	5544	5370	5355	5517	5616
30	5528	5500	5633	5463	5685
35	5603	5292	5297	5349	5513
40	5577	5509	5523	5644	5488
45	5691	5412	5678	5495	5398
50	5343	5435	5564	5526	5451
55	5589	5462	5315	5280	5584
60	5309	5625	5336	5615	5294
65	5530	5702	5565	5596	5345
70	5670	5630	5560	5591	5607
75	5693	5468	5477	5407	5545
80	5721	5409	5402	5525	5552
85	5381	5483	5340	5326	5609
90	5494	5364	5499	5423	5465
95	5518	5558	5569	5716	5718

Radar Type 6 24 trail					
0	5519	5708	5287	5695	5501
5	5435	5649	5460	5442	5407
10	5262	5318	5576	5269	5596
15	5638	5699	5377	5412	5591
20	5706	5336	5362	5432	5697
25	5387	5556	5454	5658	5417
30	5457	5373	5712	5408	5645
35	5480	5568	5350	5360	5352
40	5660	5323	5652	5520	5573
45	5468	5299	5470	5634	5285
50	5274	5486	5275	5349	5298
55	5680	5416	5463	5512	5251
60	5713	5474	5667	5683	5453
65	5282	5438	5718	5566	5534
70	5399	5514	5656	5633	5409
75	5567	5584	5338	5545	5623
80	5490	5663	5612	5309	5406
85	5694	5525	5499	5448	5294
90	5574	5332	5659	5370	5436
95	5477	5415	5542	5467	5319

Radar Type 6 25 trail						
Frequency List (MHz)	0	1	2	3	4	
0	5299	5472	5698	5381	5721	
5	5477	5574	5535	5508	5614	
10	5668	5582	5617	5367	5251	
15	5351	5383	5505	5604	5527	
20	5660	5647	5328	5335	5549	
25	5590	5488	5700	5403	5414	
30	5588	5389	5703	5309	5571	
35	5364	5503	5274	5666	5365	
40	5261	5417	5517	5405	5448	
45	5382	5528	5687	5695	5537	
50	5717	5393	5370	5653	5331	
55	5600	5270	5639	5612	5515	
60	5376	5667	5269	5252	5677	
65	5586	5642	5258	5636	5543	
70	5458	5479	5623	5400	5444	
75	5301	5372	5428	5341	5575	
80	5290	5316	5345	5347	5627	
85	5349	5470	5565	5432	5628	
90	5676	5447	5672	5552	5468	
95	5469	5359	5321	5325	5678	

Radar Type 6 26 trail						
Frequency List (MHz)	0	1	2	3	4	
0	5457	5711	5634	5542	5563	
5	5616	5596	5610	5671	5346	
10	5599	5371	5658	5562	5638	
15	5339	5381	5486	5453	5321	
20	5535	5351	5588	5417	5308	
25	5586	5498	5318	5289	5522	
30	5364	5292	5706	5426	5448	
35	5662	5257	5656	5663	5505	
40	5674	5657	5514	5334	5428	
45	5465	5489	5265	5437	5404	
50	5396	5373	5564	5581	5324	
55	5368	5625	5571	5399	5329	
60	5557	5347	5677	5271	5462	
65	5541	5576	5383	5280	5250	
70	5261	5485	5519	5502	5578	
75	5525	5604	5652	5613	5700	
80	5435	5400	5609	5331	5635	
85	5385	5281	5299	5595	5350	
90	5382	5407	5695	5546	5683	
95	5607	5263	5655	5550	5459	

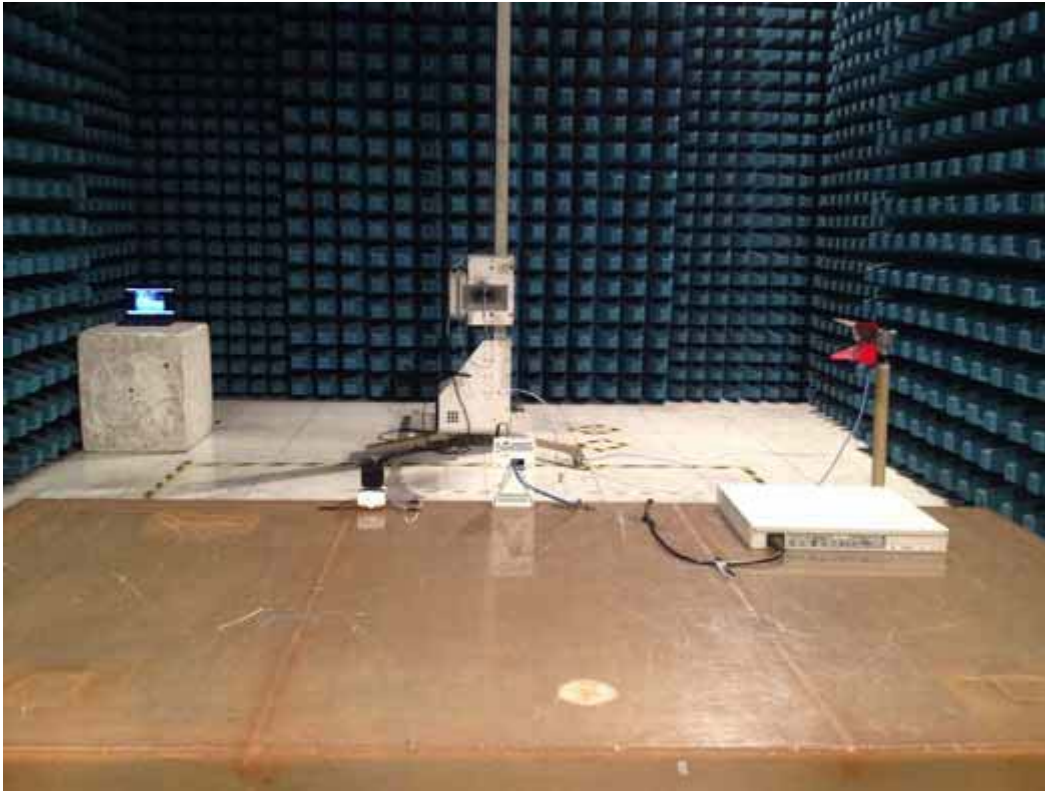
Radar Type 6 27 trail					
Frequency List (MHz)	0	1	2	3	4
0	5712	5475	5570	5703	5308
5	5658	5521	5685	5359	5650
10	5433	5257	5699	5282	5659
15	5427	5508	5589	5498	5610
20	5446	5420	5626	5409	5281
25	5377	5350	5424	5393	5556
30	5406	5656	5328	5315	5721
35	5587	5278	5528	5431	5674
40	5441	5531	5515	5422	5608
45	5263	5408	5548	5547	5318
50	5324	5280	5572	5639	5542
55	5671	5294	5558	5347	5494
60	5502	5654	5600	5692	5663
65	5662	5577	5311	5414	5661
70	5352	5711	5361	5334	5398
75	5461	5289	5698	5668	5585
80	5429	5723	5481	5629	5595
85	5300	5329	5331	5597	5598
90	5624	5368	5645	5679	5485
95	5707	5563	5591	5636	5537

Radar Type 6 28 trail					
Frequency List (MHz)	0	1	2	3	4
0	5492	5714	5506	5389	5625
5	5700	5543	5285	5522	5382
10	5364	5521	5265	5477	5680
15	5418	5635	5692	5327	5454
20	5586	5567	5498	5254	5299
25	5627	5594	5590	5448	5642
30	5661	5564	5541	5629	5369
35	5324	5584	5588	5280	5614
40	5453	5565	5605	5570	5291
45	5631	5371	5589	5534	5273
50	5690	5494	5355	5482	5707
55	5641	5513	5657	5659	5544
60	5486	5426	5638	5611	5516
65	5618	5684	5464	5697	5658
70	5374	5420	5258	5721	5566
75	5681	5358	5262	5696	5297
80	5621	5709	5439	5672	5304
85	5616	5368	5491	5475	5341
90	5580	5318	5281	5380	5519
95	5537	5362	5645	5524	5325

Radar Type 6 29 trail						
Frequency List (MHz)	0	1	2	3	4	
0	5272	5478	5539	5550	5370	
5	5267	5565	5360	5588	5589	
10	5295	5310	5306	5672	5701	
15	5506	5287	5320	5491	5519	
20	5462	5655	5508	5490	5702	
25	5531	5626	5355	5698	5624	
30	5717	5401	5716	5264	5293	
35	5557	5692	5262	5502	5594	
40	5319	5391	5330	5602	5499	
45	5271	5336	5663	5424	5476	
50	5410	5449	5266	5342	5317	
55	5299	5670	5564	5463	5460	
60	5387	5311	5349	5489	5415	
65	5252	5681	5687	5560	5552	
70	5353	5576	5593	5683	5464	
75	5507	5350	5379	5605	5366	
80	5382	5547	5361	5371	5518	
85	5385	5721	5294	5341	5612	
90	5378	5621	5389	5457	5292	
95	5534	5497	5412	5374	5597	

Radar Type 6 30 trail						
Frequency List (MHz)	0	1	2	3	4	
0	5430	5717	5475	5711	5687	
5	5406	5490	5435	5276	5321	
10	5604	5574	5444	5295	5722	
15	5594	5414	5326	5536	5373	
20	5346	5546	5579	5675	5419	
25	5478	5558	5327	5658	5629	
30	5420	5674	5519	5559	5432	
35	5648	5488	5512	5513	5433	
40	5402	5329	5570	5599	5331	
45	5251	5624	5477	5266	5286	
50	5625	5317	5431	5518	5621	
55	5653	5279	5358	5343	5514	
60	5434	5650	5627	5413	5509	
65	5491	5660	5371	5545	5665	
70	5291	5467	5259	5338	5486	
75	5428	5528	5613	5481	5299	
80	5549	5309	5612	5695	5681	
85	5581	5422	5540	5386	5699	
90	5503	5446	5256	5462	5640	
95	5427	5377	5487	5398	5307	

Appendix I: Photograph of Test setup



Appendix II: Photograph of EUT

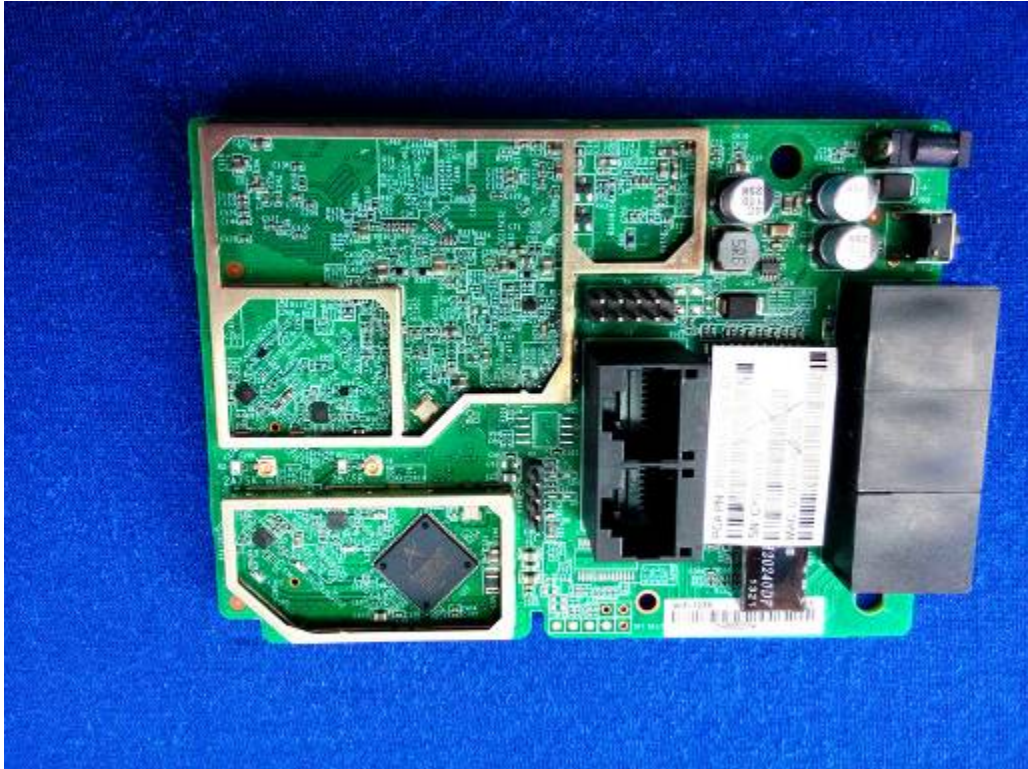




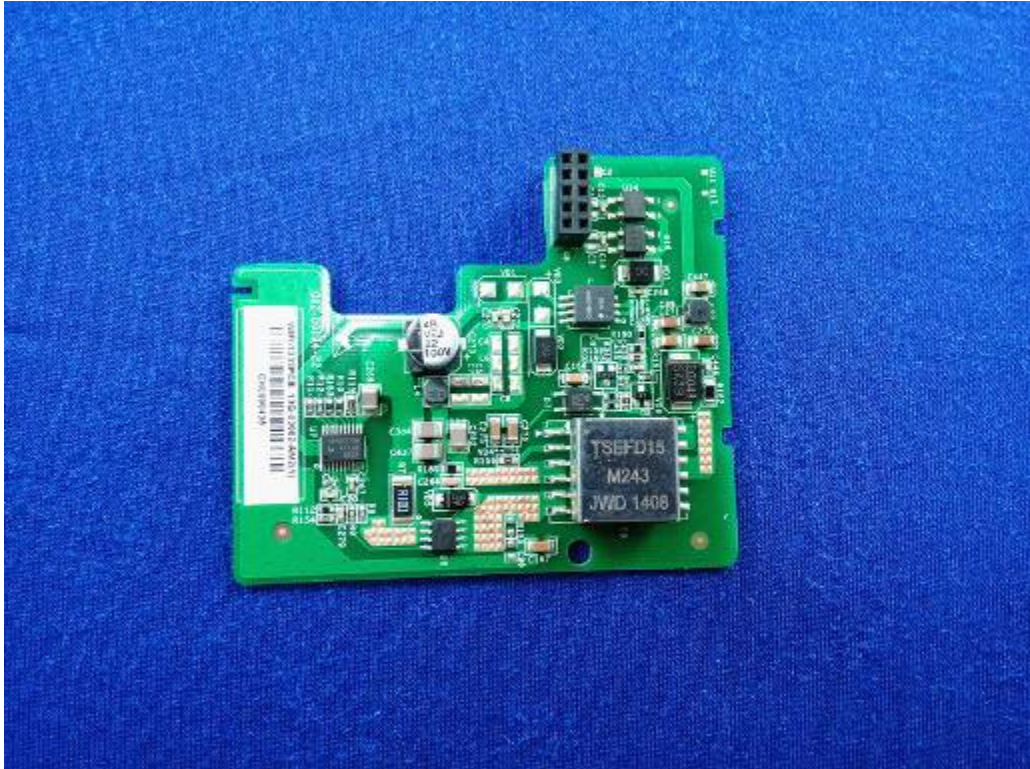




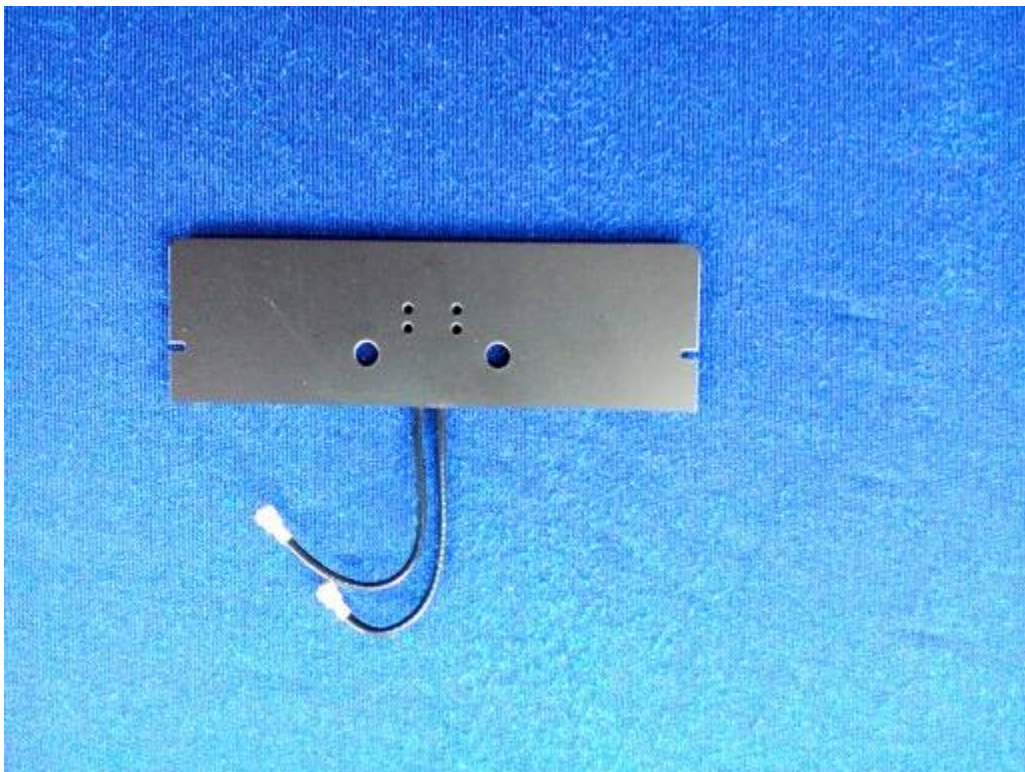
Main Board



POE Board



Antenna 1



Antenna 2

