



Compliance Testing, LLC

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Test Report

Prepared for: Ubiquiti Networks, Inc

Model: LBE-M5

Description: LiteBeam M5

Serial Number: N/A

FCC ID: SWX-LBE5M

IC: 6545A-LBE5M

To

FCC Part 15.407 DFS

And

IC RSS-247

Date of Issue: October 30, 2015

On the behalf of the applicant:

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Paul Hay
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Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	June 24, 2015	Paul Hay	Original Document



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ILAC / A2LA

Compliance Testing, LLC, has been accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to the joint ISO-ILAC-IAF Communiqué dated January 2009).

The tests results contained within this test report all fall within our scope of accreditation, unless noted below.

Please refer to <http://www.compliancetesting.com/labscope.html> for current scope of accreditation.

Testing Certificate Number: **2152.01**



FCC Site Reg. #349717

IC Site Reg. #2044A-2

Non-accredited tests contained in this report:

N/A

The applicant has been cautioned as to the following

15.21 - Information to User

The user's manual or instruction manual for an intentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

15.27(a) - Special Accessories

Equipment marked to a consumer must be capable of complying with the necessary regulations in the configuration in which the equipment is marketed. Where special accessories, such as shielded cables and/or special connectors are required to enable an unintentional or intentional radiator to comply with the emission limits in this part, the equipment must be marketed with, i.e. shipped and sold with, those special accessories. However, in lieu of shipping or packaging the special accessories with the unintentional or intentional radiator, the responsible party may employ other methods of ensuring that the special accessories are provided to the consumer without an additional charge.

Information detailing any alternative method used to supply the special accessories for a grant of equipment authorization or retained in the verification records, as appropriate. The party responsible for the equipment, as detailed in § 2.909 of this chapter, shall ensure that these special accessories are provided with the equipment. The instruction manual for such devices shall include appropriate instructions on the first page of text concerned with the installation of the device that these special accessories must be used with the device. It is the responsibility of the user to use the needed special accessories supplied with the equipment.



Standard Test Conditions Engineering Practices

Except as noted herein, the following conditions and procedures were observed during the testing:

In accordance with ANSI C63.10-2013 and unless otherwise indicated in the specific measurement results, the ambient temperature of the actual EUT was maintained within the range of 10° to 40°C (50° to 104°F) unless the particular equipment requirements specified testing over a different temperature range. Also, unless otherwise indicated, the humidity levels were in the range of 10% to 90% relative humidity.

Measurement results, unless otherwise noted, are worst-case measurements.

Environmental Conditions		
Temperature (°C)	Humidity (%)	Pressure (mbar)
24.2 – 25.3	33.7 – 44.9	965.5 – 967.7

EUT Description

Model: LBE-M5

Description: LiteBeam M5

Firmware: N/A

Software: N/A

Serial Number: N/A

Accessories: None

Cables: None

Modifications: None



EUT Specifications	15.407
Equipment Code	NII
FCC ID	SWX-LBE5M
IC ID	6545A-LBE5M
System Architecture	IP based
Model(s) Tested	LBE-M5
Model(s) Covered	LBE-M5
Maximum Output Power	25.3dBm
Frequency Ranges covered	5250-5350MHz and 5470-5725MHz
EUT temperature range	-40C to 80C
Bandwidths	10/20/30/40MHz
Data Rates	6, 9, 12, 18, 24, 36, 48, 54, MCS0, MCS1, MCS2, MCS3, MCS4, MCS5, MCS6, MCS7, MCS8, MCS9
Modulations	BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM



EUT Description

1. The operating frequency range(s) of the equipment is:
 - U-NII-1 (5150-5250 MHz)
 - U-NII-2A (5250-5350 MHz)
 - U-NII-2C (5470-5725 MHz)
 - U-NII-3 (5725-5850 MHz)
2. This device operates as a master and/or client. When in Master mode, the device may be configured in WDS repeater mode.
3. This device is being tested for DFS as a Master. This device has radar detection in both Master and Client modes.
4. The highest and lowest possible power level (EIRP) of the equipment is:
 - a. 28 dBm – highest possible EIRP
 - b. -38 dBm – lowest possible EIRP
5. All antennas to be used with the product are in the table below:

No.	Manufacturer	Part #	Antenna Type	Peak Gain
1	Ubiquiti	LBE-AC Omni	OMNI	6
2	Ubiquiti	LBE-AC Dish	Dish	23

6. Conducted testing performed on Port F37
7. The test report includes power tables for the minimum gain antenna and for each antenna assembly. Both antenna ports were tested
8. The antenna assembly gain used to set the DFS detection threshold level was 6, based on the lowest gain antenna.
9. The DFS Detection Threshold was set to: -58
10. See Annex A of the report for the list of the output power range and the maximum EIRP for each antenna assembly.
11. The antenna connector is 50 Ohms
12. Antenna gain measurement verification is not applicable for the tested antenna.
13. Test sequences used for channel loading:
 - Channel loading was achieved by streaming the FCC test video over UDP from a laptop connected to the master, to a laptop connected to the client.
 - The streaming was managed using a network testing tool, called iPerf, which transmitted the video repeatedly for the duration of the testing.
 - The video was not displayed.
 - Channel loading was controlled by limiting the bandwidth (a configuration option on the iPerf tool).
14. The test file was streamed from the Master Device to the Client Device using UDP/IP
15. The channel loading methodology is described below:
 - Channel loading was achieved by streaming the FCC test video over UDP from a laptop connected to the master, to a laptop connected to the client.

- The streaming was managed using a network testing tool, called iPerf, which transmitted the video repeatedly for the duration of the testing.
- The video was not displayed.
- Channel loading was controlled by limiting the bandwidth (a configuration option on the iPerf tool).

16. Transmit Power Control description:

- The device ALWAYS operates within the limits of the grant's power tables.
- Software limits the maximum conducted output power based upon the product, antenna type, antenna gain, channel width, and frequency.
- The professional installer has a maximum power setting on the user interface which may be used to REDUCE the power level below the maximum allowed.
 - If the professional installer specifies a maximum power setting which is GREATER THAN the maximum allowed under the grant for the current conditions (product, antenna type, antenna gain, channel width, and frequency), then this SETTING HAS NO EFFECT.
 - Should the frequency change to one where the professional installer's specified maximum is LESS THAN the maximum conducted power level on the grant, then the lesser setting would take effect.
 - This allows the professional installer to limit the conducted output power across multiple frequencies which have different conducted power limits. This applies to client mode devices which are scanning for masters across frequencies, master mode devices which change frequencies after radar detection, master modes with automatic channel selection, etc.

17. System architecture:

- The system is IP based.

18. The device takes 30-31 seconds from connecting power until the start of the CAC.

19. Manufacturer declaration:

- Information regarding the parameters of the detected radar waveforms is not available to the professional installer or an end user.
- In order to obtain detailed parameters of detected radar waveforms, the product must be specially provisioned by Ubiquiti for DFS/FCC testing.

20. Channel selection:

- The professional installer may configure a master device to start on a specific frequency, or choose "auto" to have the software select the best frequency automatically.
- The professional installer may also block channels from use, including DFS channels, through the use of a frequency list.
- The frequency list is a pre-determined list of frequencies that the device may operate on.
- By simply omitting any frequency they so choose, the professional installer can block that frequency.
- The frequency list may either be entered from a keyboard or a selection GUI. In the frequency list selection GUI. In the GUI, checkboxes for DFS channels are tagged with the suffix, "(DFS)", to indicate that DFS is required for those frequencies.



Test Results Summary

Specification	Description of Test	Pass, Fail, N/A	Comments
UNII Detection Bandwidth	Radar detection across frequency spectrum	Pass	
Performance Requirements Check	Initial Channel Availability Check Time (CAC)	Pass	
	Radar Burst at the Beginning of the CAC	Pass	
	Radar Burst at the end of the CAC	Pass	
Performance Requirements Check	Channel Move Time	Pass	
	Channel Closing Transmission Time	Pass	
	Non-Occupancy Period	Pass	
In-service Monitoring	Statistical Performance Check	Pass	

References	Description
KDB 905462 D02	UNII DFS Compliance Procedures New Rules v01r02
CFR47, Part 15, Subpart E	Unlicensed Nation Information Infrastructure Devices (U-NII)
ANSI C63.10-2013	American National standard for testing Unlicensed Wireless Devices
ISO/IEC 17025:2005	General requirements for the Competence of Testing and Calibrations Laboratories
KDB 644545 D03	Guidance for IEEE 802 11ac New Rules
KDB 789033 D02	General U-NII Test Procedures New Rules V01
KDB 926956 D01	U-NII transition Plan
RSS-247	Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSS) and License-Exempt Local Area Network (LE-LAN) Devices



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

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

Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required
Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.		



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

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.
Note 1: <i>Channel Move Time</i> and the <i>Channel Closing Transmission Time</i> should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. Note 2: The <i>Channel Closing Transmission Time</i> is comprised of 200 milliseconds starting at the beginning of the <i>Channel Move Time</i> plus any additional intermittent control signals required to facilitate a <i>Channel</i> move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions. Note 3: During the <i>U-NII Detection Bandwidth</i> 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.	



Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A/Test B	See 905462 D02	60%	30
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.

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

Note: The center frequency for each of the 30 trials of the Bin 5 radar is randomly selected within 80% of the Occupied Bandwidth.

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 20MHz, 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 radar frequency of 5300MHz and a 20MHz chirped signal, the chirp starts at 5290MHz and ends at 5310MHz.
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).

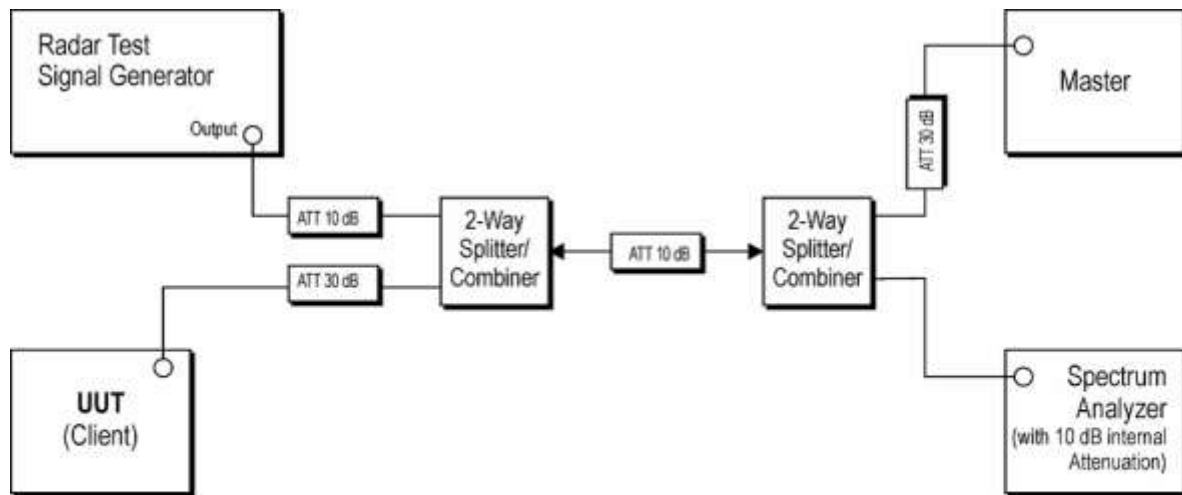


Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30

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.

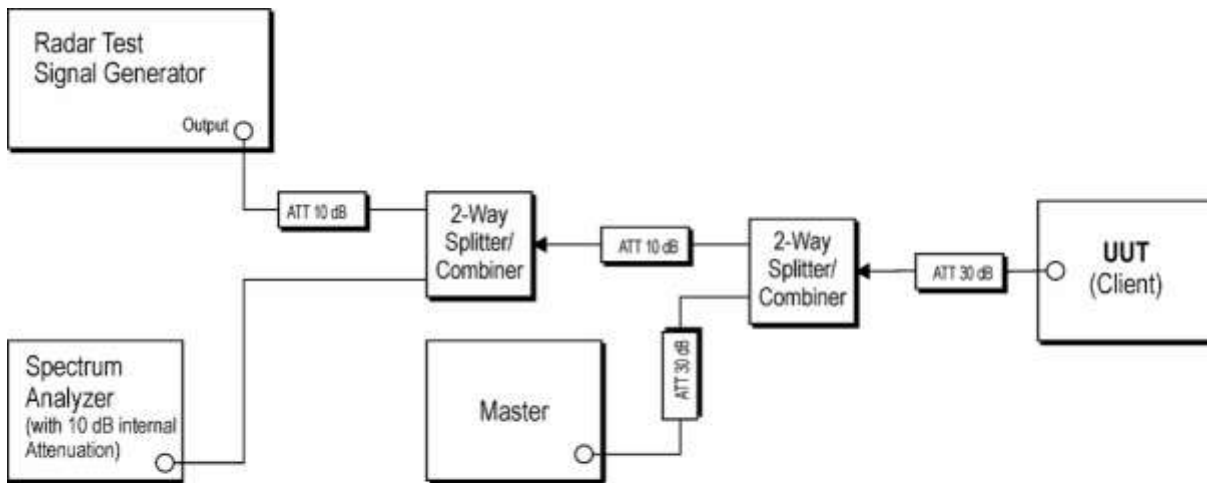


Conducted Setup for Master with injection at the Master



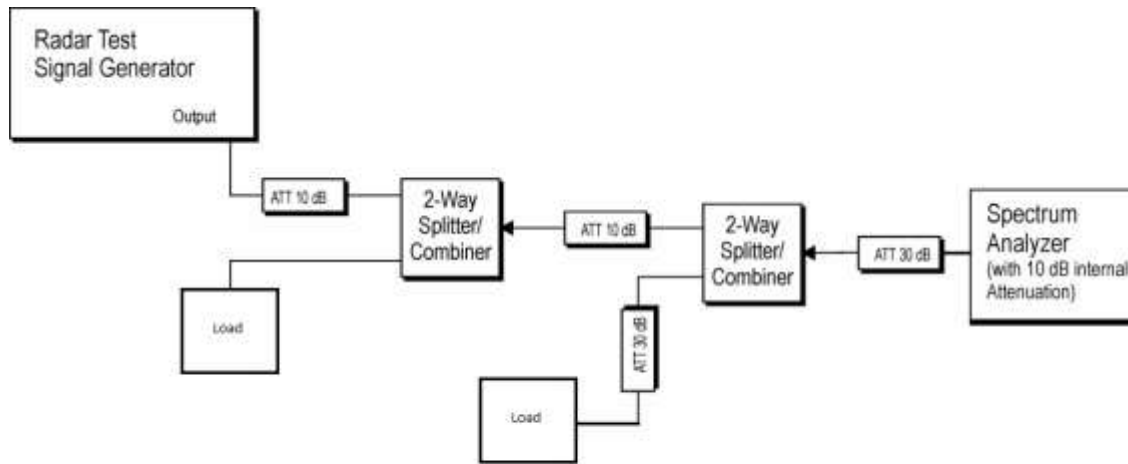


Conducted Setup for Client with injection at the Client

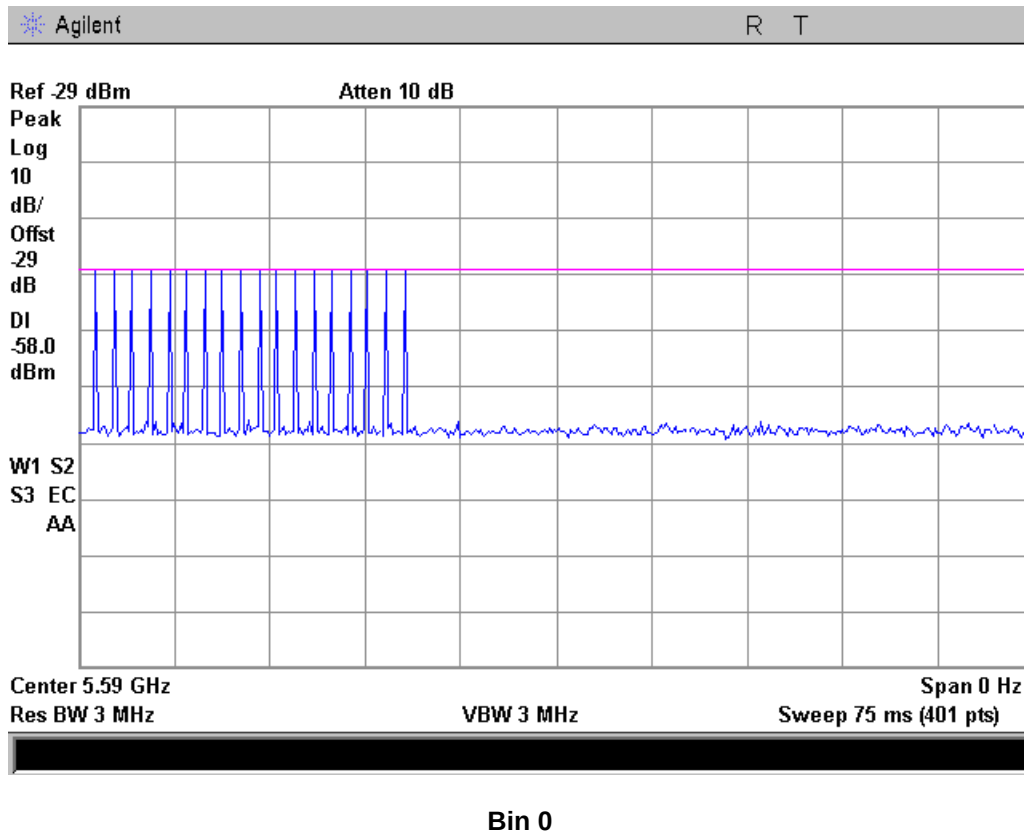


Radar Waveform Calibration

The equipment was setup per the diagram below. The amplitude of each wave form adjusted to compensate for the lowest antenna gain used with the EUT.



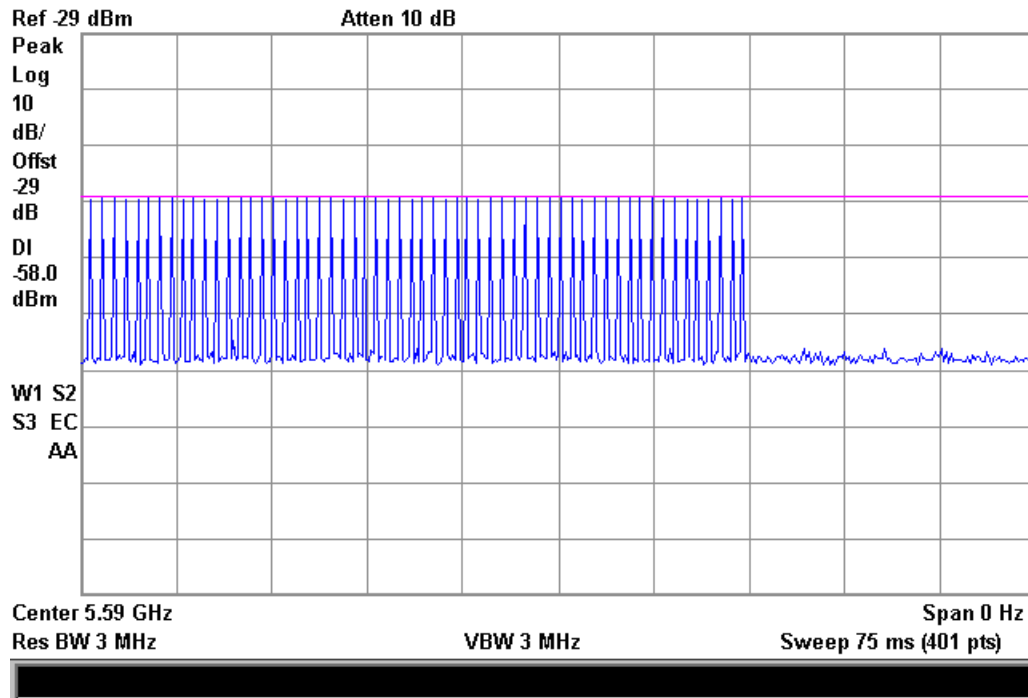
Waveform Calibration Test Setup Diagram





Agilent

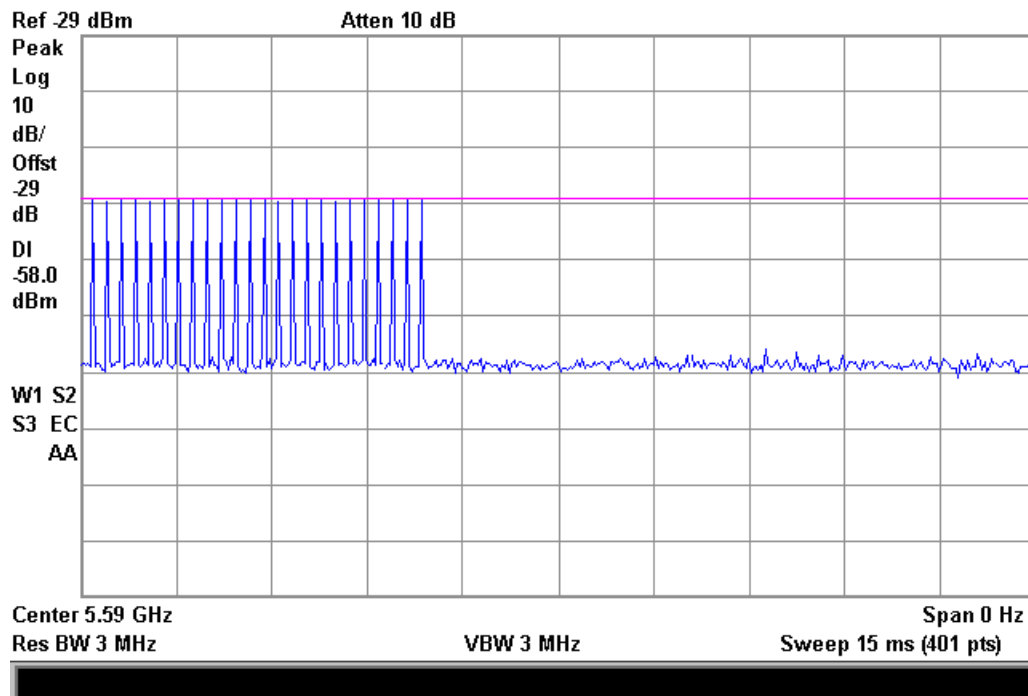
R T



Bin 1

Agilent

R T

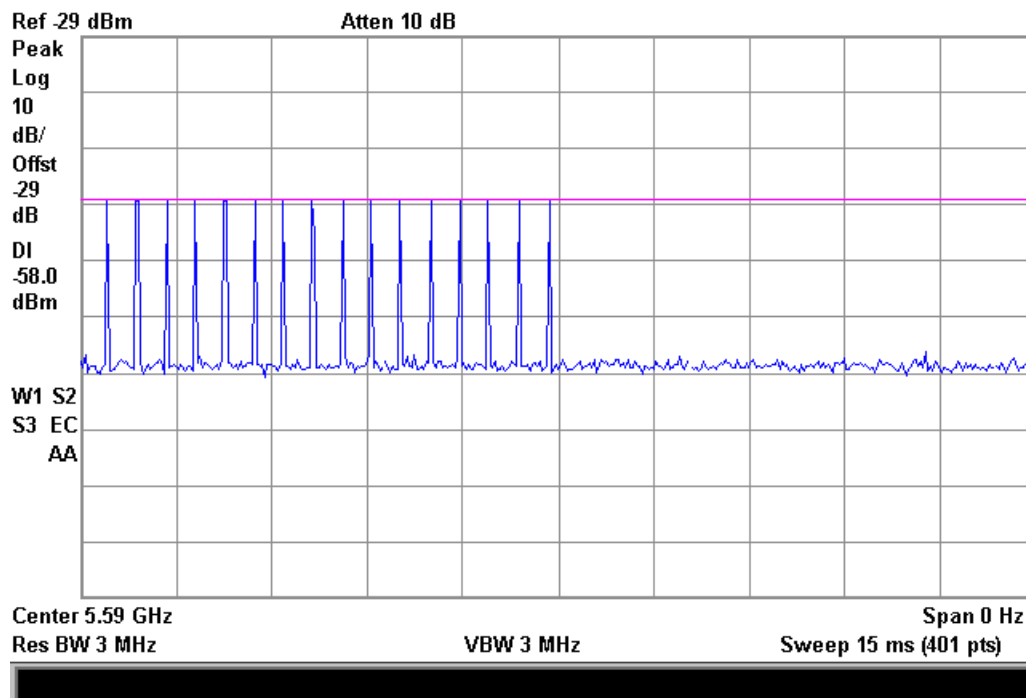


Bin 2



Agilent

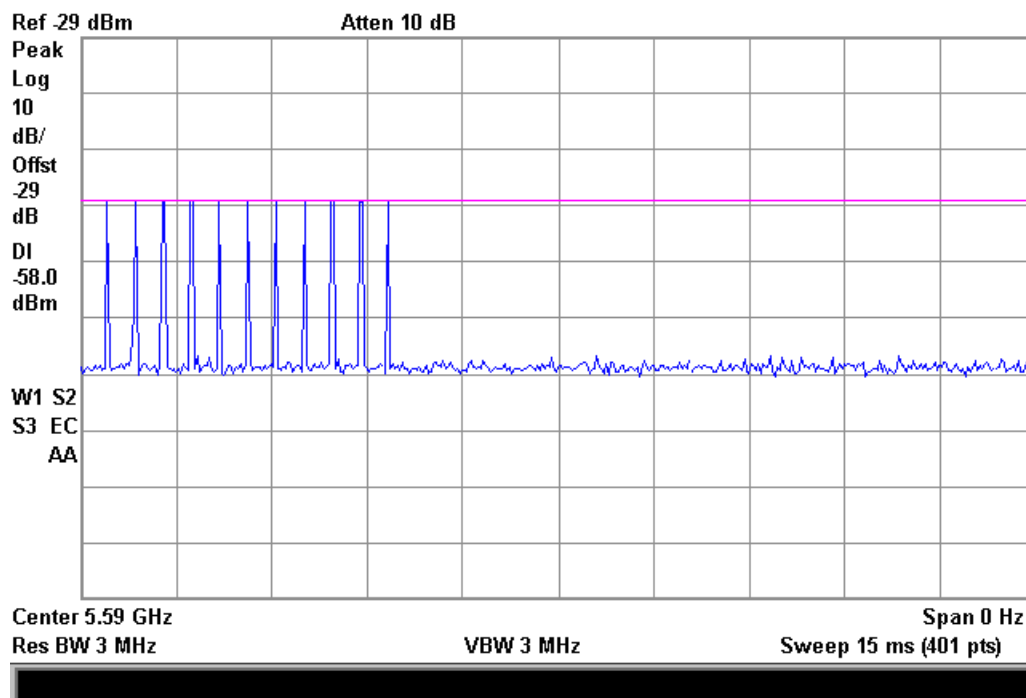
R T



Bin 3

Agilent

R T

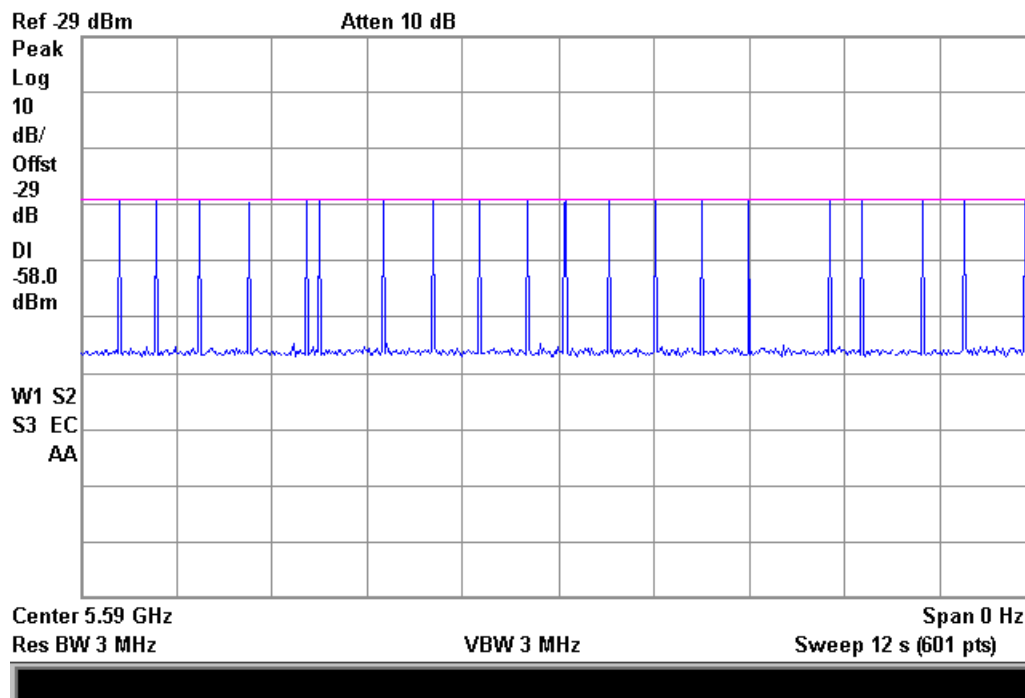


Bin 4



Agilent

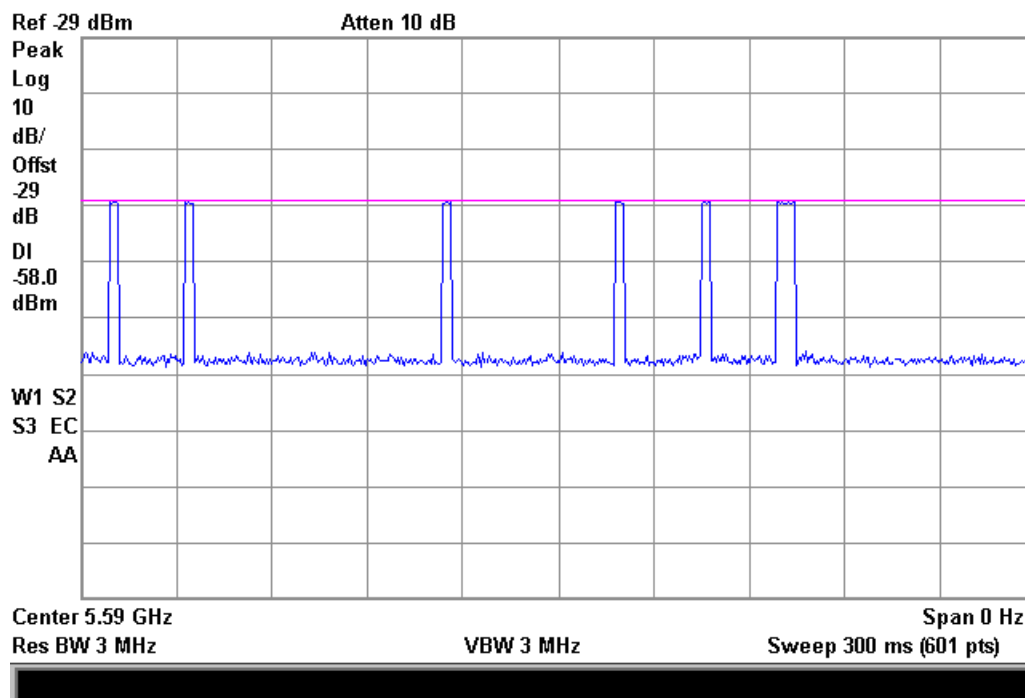
R T



Bin 5

Agilent

R T



Bin 6



Channel Loading

Engineer: Paul Hay

Test Date: 6/22/15

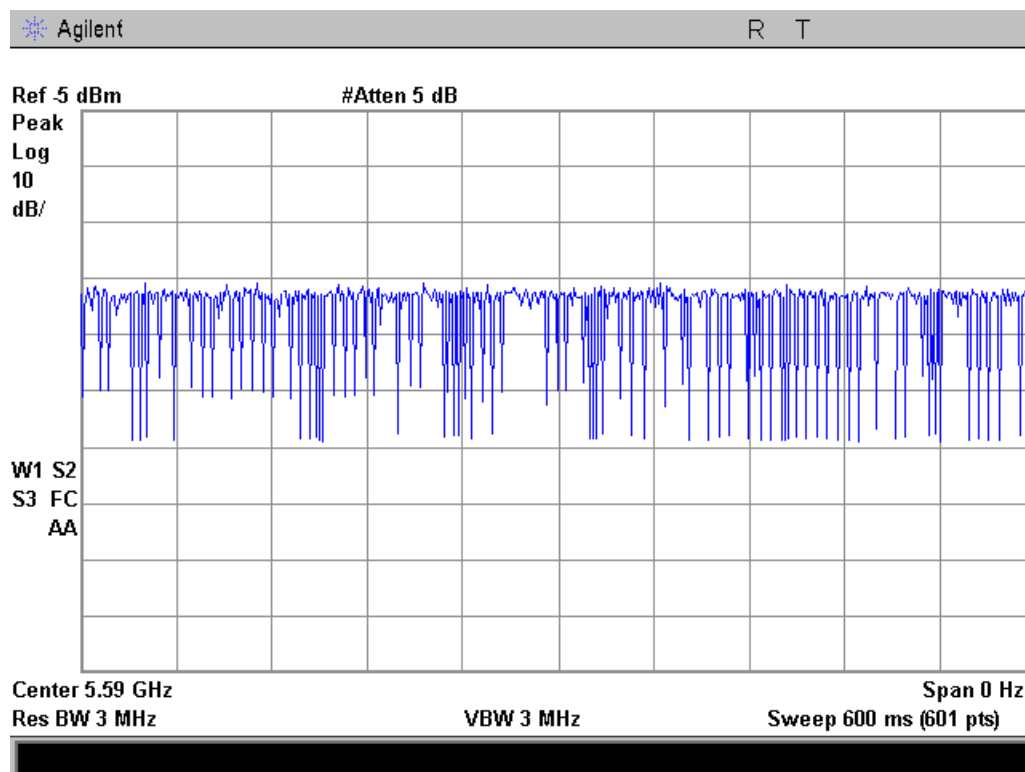
Test Requirements

System testing will be performed with channel-loading using means appropriate to the data types that are used by the unlicensed device. The following requirements apply:

- The data file must be of a type that is typical for the device (i.e., MPEG-2, MPEG-4, WAV, MP3, MP4, AVI, etc.) and must generally be transmitting in a streaming mode.
- Software to ping the client is permitted to simulate data transfer but must have random ping intervals.
- Timing plots are required with calculations demonstrating a minimum channel loading of approximately 17% or greater. For example, channel loading can be estimated by setting the spectrum analyzer for zero span and approximate the Time On/ (Time On + Off Time). This can be done with any appropriate channel BW and modulation type.

Test Procedure

The data file is streamed from the master to the client. The spectrum analyzer is set to 3MHz RBW and 3MHz VBW with a sweep time of 600ms. The plots below show the traffic for each bandwidth tested.

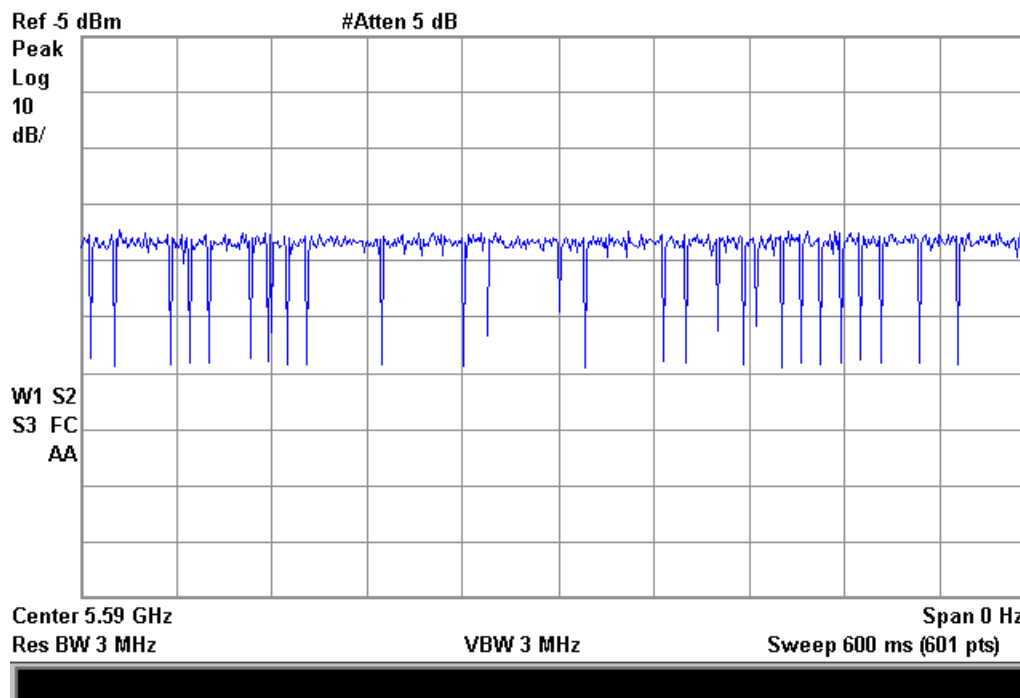


10MHz Traffic



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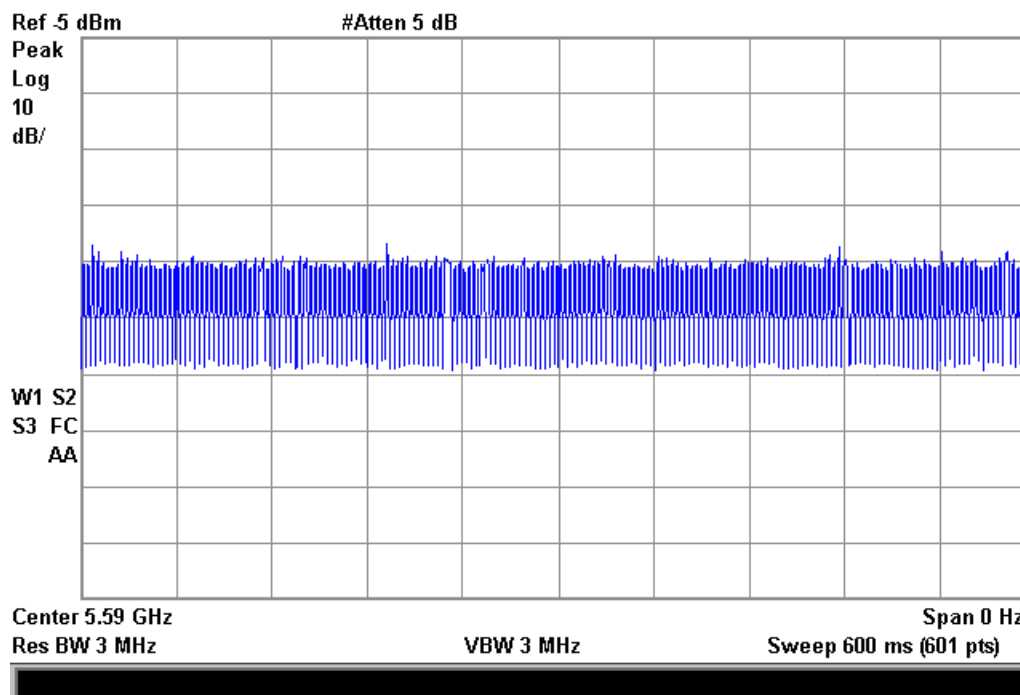
R T



20MHz Traffic

Agilent

R T

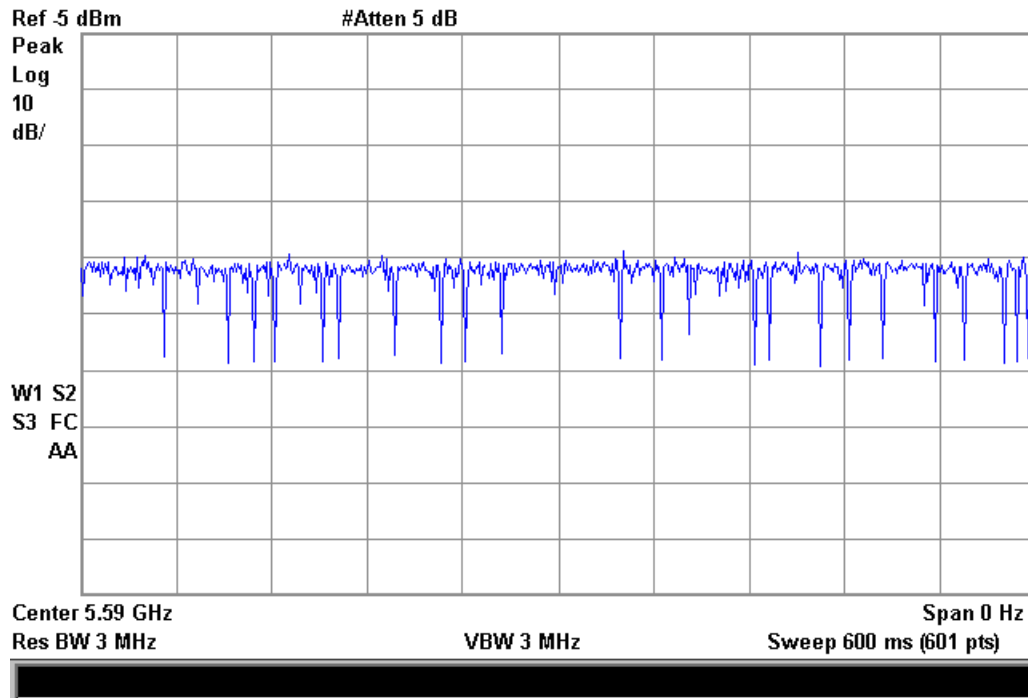


30MHz Traffic



Agilent

R T



40MHz Traffic

U-NII Detection Bandwidth

Engineer: Paul Hay

Test Date: 6/22/15

Test Requirements

The U-NII Detection Bandwidth must meet the U-NII Detection Bandwidth criterion as specified in 905462. Otherwise, the EUT does not comply with DFS requirements. In the case that the U-NII Detection Bandwidth is greater than or equal to the 99 percent power bandwidth for the measured F_H and F_L , the test can be truncated and the U-NII Detection Bandwidth can be reported as the measured F_H and F_L .

Test Procedure

The EUT was setup as a standalone device with no associated client and with no traffic. A single radar burst of types 0-4 was injected into the EUT at the center frequency of the channel and the response noted. A minimum of 10 trials was performed. The frequency of the radar signal was then decreased in 5MHz steps until the detection fell below the U-NII detection criterion. The frequency was then increased 5MHz and then decreased in 1MHz steps until the detection rate began to fall. This was noted as F_L . This was repeated on the other side of the center of the carrier and the frequency noted as F_H .

The U-NII Detection Bandwidth was calculated as follows:

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

Bandwidths (MHz)	FH (MHz)	FL (MHz)	FH-FL (MHz)	99% BW (MHz)	Delta (MHz)
10	5595	5585	10	9.2	0.8
20	5600	5580	20	18.0	2.0
30	5605	5575	30	27.1	2.9
40	5610	5570	40	36.4	3.6

See Annex A for Statistical Data Results



Initial CACT

Engineer: Paul Hay

Test Date: 6/22/15

Initial Channel Availability Check Time criteria

Definition

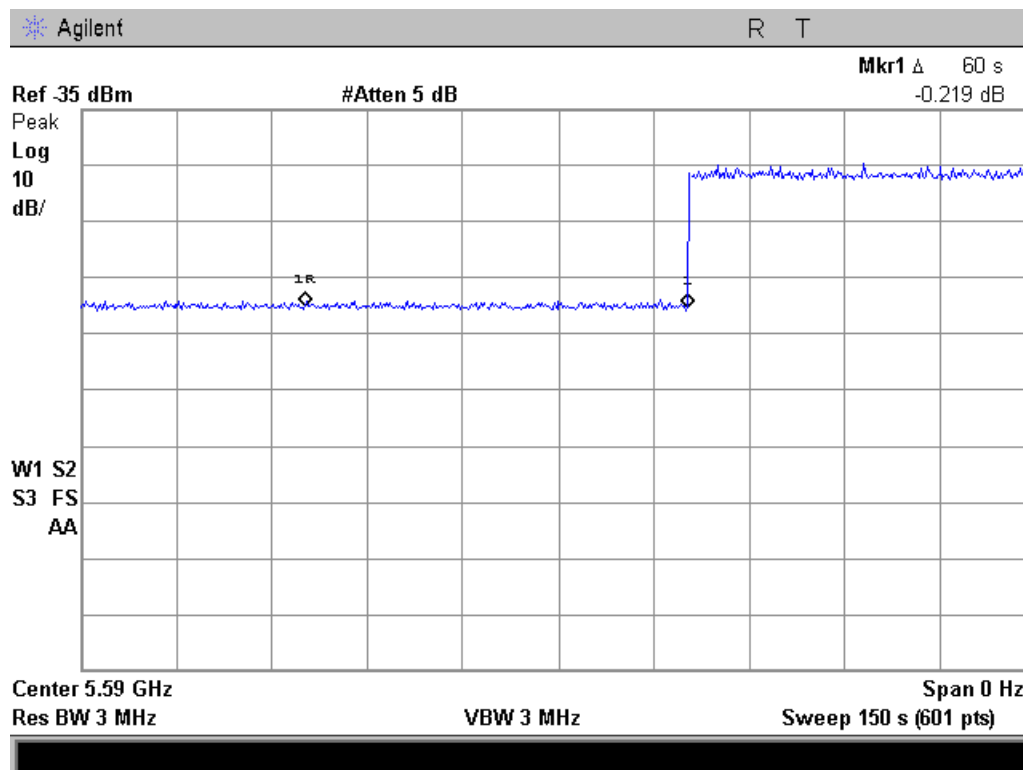
The Initial Channel Availability Check Time tests that the EUT does not emit beacon, control, or data signals on the test Channel until the power-up sequence has been completed and the U-NII device checks for Radar Waveforms for one minute on the test Channel.

Test Procedure

The monitoring spectrum analyzer was set to a zero span with a 3 MHz RBW and a 3 MHz VBW with a sweep time of 2.5 minutes. The EUT was powered on and instructed to operate on the appropriate U-NII Channel that incorporates DFS functions. At the same time the EUT was powered on the spectrum analyzer was triggered to sweep.

Requirement

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



CACT

Radar Burst at the Beginning of the Channel Availability Check Time

Definition

The Radar Burst at the Beginning of the Channel Availability Check Time is to verify successful radar detection on the test channel during a period equal to the channel availability check time. A radar burst equal to the DFS detection threshold + 1dB is used.

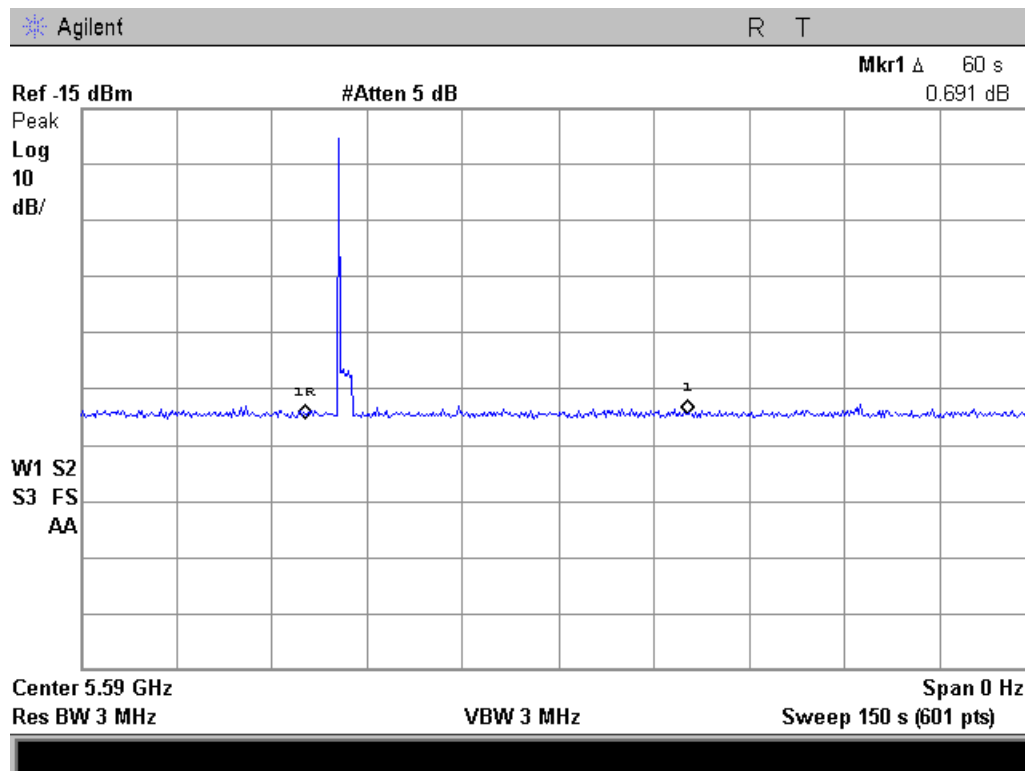
Test Procedure

The monitoring spectrum analyzer was set to a zero span with a 3 MHz RBW and a 3 MHz VBW with a sweep time of 2.5 minutes. The EUT was powered on and instructed to operate on the appropriate U-NII Channel that incorporates DFS functions. At the same time the EUT was powered on the spectrum analyzer was triggered to sweep.

A single Burst of one of the Short Pulse Radar Types 0-4 was commenced within a 6 second window starting at the beginning of the channel availability check time. An additional 1 dB was added to the radar test signal to ensure it was at or above the DFS Detection Threshold.

Requirement

During the 2.5 minute measurement window the EUT will not transmit on that channel.



Burst at beginning of CACT

Radar Burst at the End of the Channel Availability Check Time

Definition

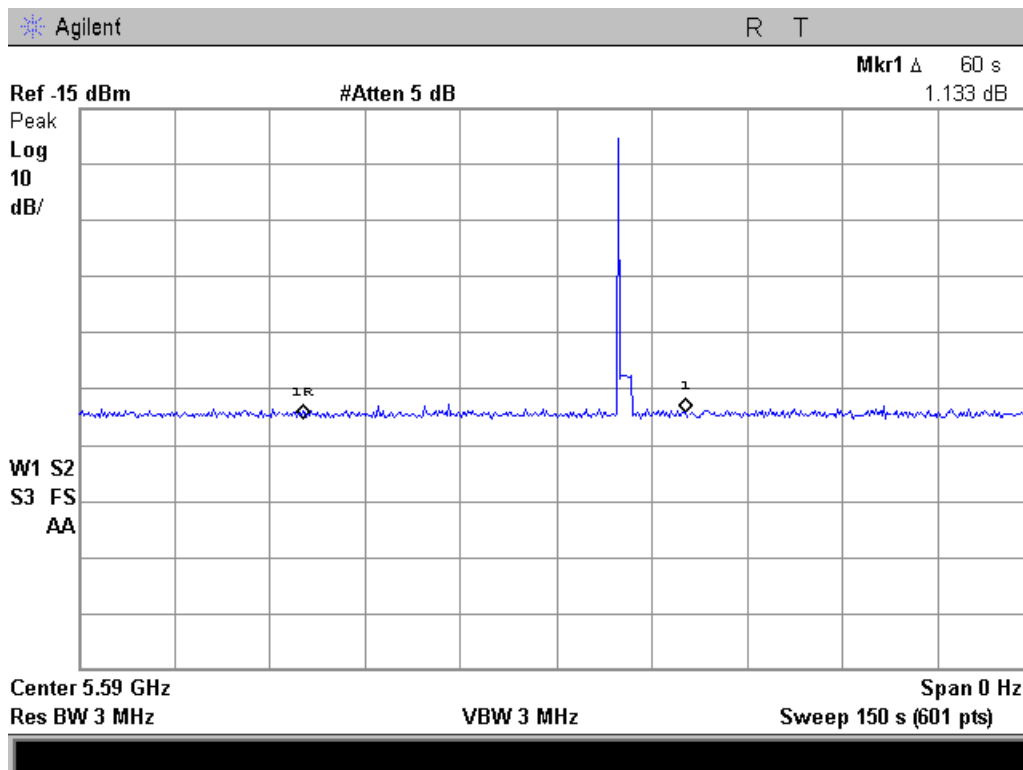
The Radar Burst at the End of the Channel Availability Check Time is to verify successful radar detection on the test channel during a period equal to the channel availability check time. A radar burst equal to the DFS detection threshold + 1dB is used.

Test Procedure

A single Burst of one of the Short Pulse Radar Types 0-4 was commenced within a 6 second window after the startup routine + 54 seconds. An additional 1 dB was added to the radar test signal to ensure it was at or above the DFS Detection Threshold.

Requirement

During the 2.5 minute measurement window the EUT will not transmit on that channel.



Burst at end of CACT



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
- Non-Occupancy Period

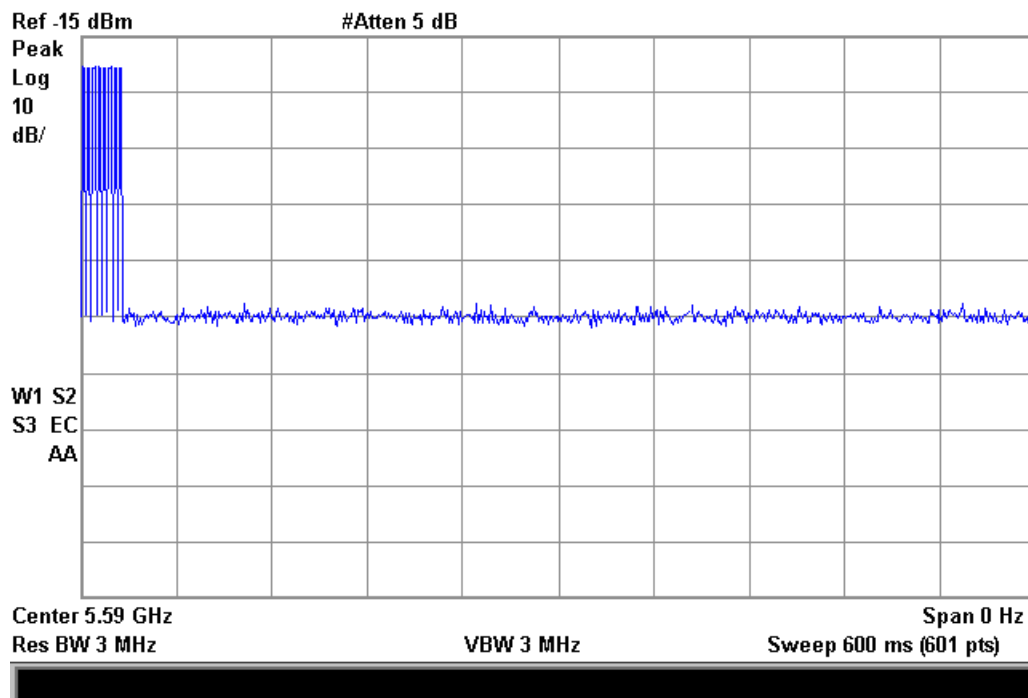
The steps below define the procedure to determine the above mentioned parameters when a radar Burst with a level equal to the DFS Detection Threshold + 1dB is generated on the Operating Channel of the U-NII device (In- Service Monitoring).

- a. One frequency will be chosen from the Operating Channels of the EUT within the 5250-5350MHz or 5470-5725MHz bands. For 802.11 devices, the test frequency must contain control signals. This can be verified by disabling channel loading and monitoring the spectrum analyzer. If no control signals are detected, another frequency must be selected within the emission bandwidth where control signals are detected.
- b. In case the EUT is a U-NII device operating as a Client Device (with or without DFS), a U-NII device operating as a Master Device will be used to allow the EUT (Client device) to Associate with the Master Device. In case the EUT is a Master Device, a U-NII device operating as a Client Device will be used and it is assumed that the Client will associate with the EUT (Master). In both cases for conducted tests, the Radar Waveform generator will be connected to the Master Device. 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.
- c. At time T0 the Radar Waveform generator sends a Burst of pulses for one of the Radar Type 0. An additional 1 dB is added to the radar test signal to ensure it is at or above the DFS Detection Threshold, accounting for equipment variations/errors.
- d. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the EUT during the observation time (Channel Move Time). Measure and record the Channel Move Time and Channel Closing Transmission Time if radar detection occurs.
- e. When operating as a Master Device, monitor the EUT for more than 30 minutes following instant T2 to verify that the EUT does not resume any transmissions on this Channel. Perform this test once and record the measurement result.
- f. In case the EUT is a U-NII device operating as a Client Device with In-Service Monitoring, perform steps a) to f).



Agilent

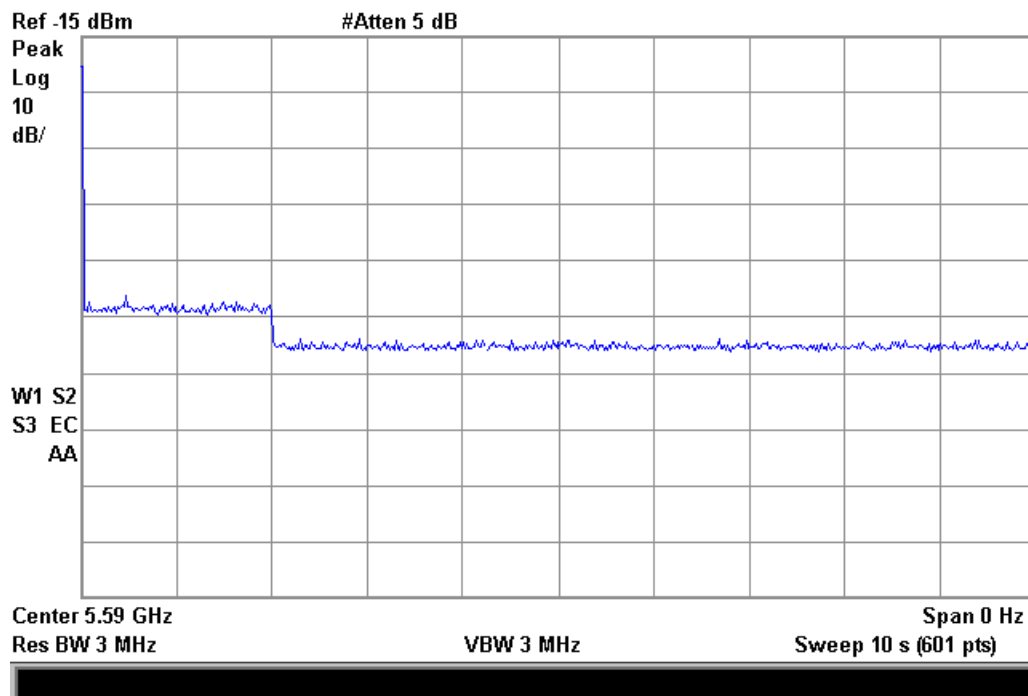
R T



Channel Close

Agilent

R T

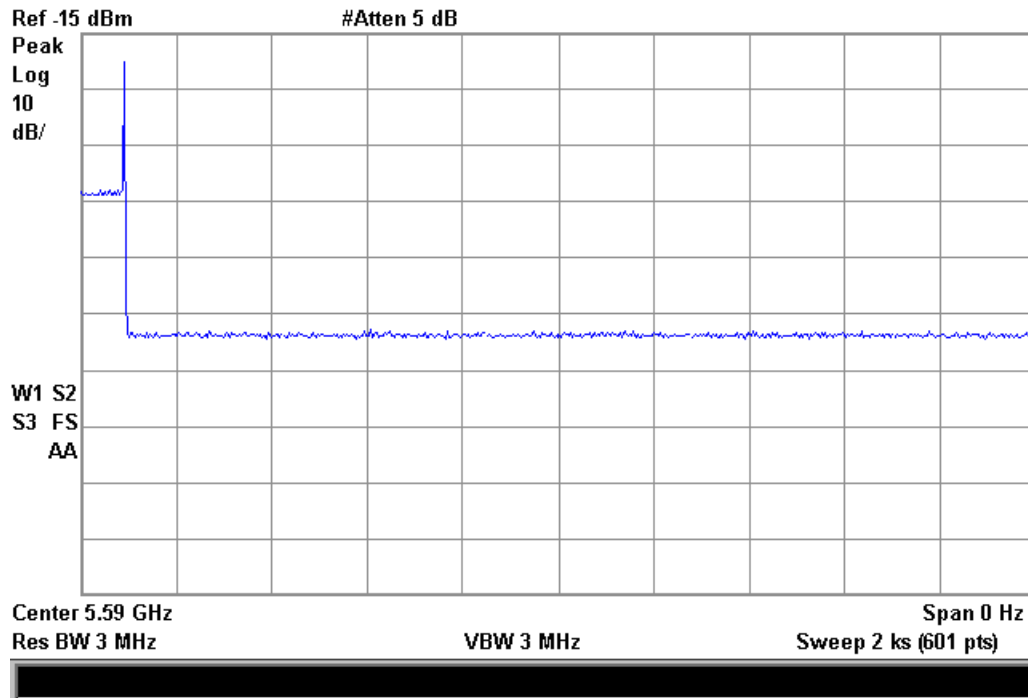


Channel Move



Agilent

R T



30min non-occupancy

Statistical Performance Check

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

- a) One frequency will be chosen from the Operating Channels of the EUT within the 5250-5350MHz or 5470-5725MHz bands.
- b) In case the EUT is a U-NII device operating as a Client Device (with or without Radar Detection), a U-NII device operating as a Master Device will be used to allow the EUT (Client device) to Associate with the Master Device. In case the EUT is a Master Device, a U-NII device operating as a Client Device will be used and it is assumed that the Client will associate with the EUT 905462 D02 UNII DFS Compliance Procedures New Rules v01r02 Page 37 (Master). In both cases for conducted tests, the Radar Waveform generator will be connected to the Master Device. 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.
- c) At time T0 the Radar Waveform generator sends the individual waveform for each of the Radar Types 1- 6 on the Operating Channel. An additional 1 dB is added to the radar test signal to ensure it is at or above the DFS Detection Threshold, accounting for equipment variations/errors.
- d) Observe the transmissions of the EUT at the end of the Burst on the Operating Channel for duration greater than 10 seconds for Radar Type 0 to ensure detection occurs.
- e) Observe the transmissions of the EUT at the end of the Burst on the Operating Channel for duration greater than 22 seconds for Long Pulse Radar Type 5 to ensure detection occurs.
- f) In case the EUT is a U-NII device operating as a Client Device with In-Service Monitoring, perform steps a) to f).

See Annex B for Statistical Data Results



Short Pulse Radar Test Summary

Once the performance requirements check is complete, 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 trials. The percentage of successful detection is calculated by:

$$\frac{\text{Total Waveform Detections}}{\text{Total Waveform Trials}} = \text{Percentage of Successful Detection Radar Waveform } N = P_dN$$

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

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

10MHz Bandwidth

Radar Type	Number of Trials	Number of Successful Detections	Minimum Percentage of Successful Detection
1	30	29	96.7%
2	30	30	100%
3	30	25	83.3%
4	30	30	100%
Aggregate (96.7% + 100% + 83.3% + 100%)/4 = 95.0%			

20MHz Bandwidth

Radar Type	Number of Trials	Number of Successful Detections	Minimum Percentage of Successful Detection
1	30	29	96.7%
2	30	30	100%
3	30	30	100%
4	30	30	100%
Aggregate (96.7% + 100% + 100% + 100%)/4 = 99.2%			



30MHz Bandwidth

Radar Type	Number of Trials	Number of Successful Detections	Minimum Percentage of Successful Detection
1	30	29	96.7%
2	30	30	100%
3	30	30	100%
4	30	30	100%
Aggregate $(96.7\% + 100\% + 100\% + 100\%) / 4 = 99.2\%$			

40MHz Bandwidth

Radar Type	Number of Trials	Number of Successful Detections	Minimum Percentage of Successful Detection
1	30	30	100%
2	30	30	100%
3	30	30	100%
4	30	30	100%
Aggregate $(100\% + 100\% + 100\% + 100\%) / 4 = 100\%$			

See Annex C for Bins 1-4 used for all Bandwidth tests



Long Pulse Radar Test

Statistical data will be gathered to determine the ability of the device to detect the Long Pulse Radar Type 5. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trials. The percentage of successful detection is calculated by:

$$\frac{\text{Total Waveform Detections}}{\text{Total Waveform Trials}} \times 100$$

10MHz Bandwidth

Radar Type	Number of Trials	Number of Successful Detections	Minimum Percentage of Successful Detection
5	30	26	86.7%

20MHz Bandwidth

Radar Type	Number of Trials	Number of Successful Detections	Minimum Percentage of Successful Detection
5	30	25	83.3%

30MHz Bandwidth

Radar Type	Number of Trials	Number of Successful Detections	Minimum Percentage of Successful Detection
5	30	29	96.7%

40MHz Bandwidth

Radar Type	Number of Trials	Number of Successful Detections	Minimum Percentage of Successful Detection
5	30	24	80.0%

See Annex D for Bin 5 used for all Bandwidth tests



Frequency Hopping Radar Test

Statistical data will be gathered to determine the ability of the device to detect the Frequency Hopping radar test signal. The probability of successful detection is calculated by:

$$\frac{\text{Total Waveform Detections}}{\text{Total Waveform Trials}} \times 100$$

10MHz Bandwidth

Radar Type	Number of Trials	Number of Successful Detections	Minimum Percentage of Successful Detection
6	30	30	100%

20MHz Bandwidth

Radar Type	Number of Trials	Number of Successful Detections	Minimum Percentage of Successful Detection
6	30	30	100%

30MHz Bandwidth

Radar Type	Number of Trials	Number of Successful Detections	Minimum Percentage of Successful Detection
6	30	29	96.7%

40MHz Bandwidth

Radar Type	Number of Trials	Number of Successful Detections	Minimum Percentage of Successful Detection
6	30	30	100%



Test Equipment Utilized

Description	Manufacturer	Model #	CT Asset #	Last Cal Date	Cal Due Date
Spectrum Analyzer	Keysight	E4445A	i00471		
PXI housing	National Instruments	PXI-1042	i00443	N/A	N/A
Imbedded Controller	National Instruments	PXI-8106		N/A	N/A
RF Up-converter	National Instruments	PXI-5610		N/A	N/A
Arbitrary wave form generator	National Instruments	PXI-5421		N/A	N/A
Signal Generator	Aeroflex	PXI-3025		N/A	N/A
RF Synthesizer	Aeroflex	PXI-3010		N/A	N/A
Pre-amp	Hewlett Packard	8449A	i00028	N/A	N/A
Combiner/Splitter	Mini-Circuits	ZX10R-14-S	N/A	N/A	N/A
Mixer	Mini-Circuits	ZX05-83LH-S	N/A	N/A	N/A

END OF TEST REPORT

EUT Frequency- 5590MHz with 10MHz											
	DFS Detection Trials (1=Detection, 0= No Detection)										
Radar Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5585	1	1	1	1	1	1	1	1	1	1	100%
5586											
5587											
5588											
5589											
5590	1	1	1	1	1	1	1	1	1	1	100%
5591											
5592											
5593											
5594											
5595	1	1	1	1	1	1	1	1	1	1	100%

Detection Bandwidth = $f_h - f_l = 5595\text{MHz} - 5585\text{MHz} = 10\text{MHz}$

[illegible]

5584											
5585	1	1	1	1	1	1	1	1	1	1	100%
5586											
5587											
5588											
5589											
5590	1	1	1	1	1	1	1	1	1	1	100%
5591											
5592											
5593											
5594											
5595	1	1	1	1	1	1	1	1	1	1	100%
5596											
5597											
5598											
5599											
5600	1	1	1	1	1	1	1	1	1	1	100%

Detection Bandwidth = $f_h - f_l = 5600\text{MHz} - 5580\text{MHz} = 20\text{MHz}$

EUT Frequency- 5590MHz with 30MHz

[illegible]

[illegible]

EUT Frequency- 5590MHz with 40MHz

5597												
5598												
5599												
5600	1	1	1	1	1	1	1	1	1	1	1	100%
5601												
5602												
5603												
5604												
5605	1	1	1	1	1	1	1	1	1	1	1	100%
5606												
5607												
5608												
5609												
5610	1	1	1	1	1	1	1	1	1	1	1	100%

Detection Bandwidth = $f_h - f_l = 5610\text{MHz} - 5570\text{MHz} = 40\text{MHz}$

40MHz Bandwidth				
Radar Type	Trial #	Detection	Trial #	Detection
		Yes/No		Yes/No
1	1	Y	16	Y
	2	Y	17	Y
	3	Y	18	Y
	4	Y	19	Y
	5	Y	20	Y
	6	Y	21	Y
	7	Y	22	Y
	8	Y	23	Y
	9	Y	24	Y
	10	Y	25	Y
	11	Y	26	Y
	12	Y	27	Y
	13	Y	28	Y
	14	Y	29	Y
	15	Y	30	Y
Percentage of Detection required: 60%			Total percentage detected: 100%	

30MHz Bandwidth				
Radar Type	Trial #	Detection	Trial #	Detection
		Yes/No		Yes/No
1	1	Y	16	Y
	2	Y	17	Y
	3	Y	18	Y
	4	Y	19	Y
	5	Y	20	Y
	6	Y	21	Y
	7	Y	22	Y
	8	Y	23	Y
	9	Y	24	Y
	10	Y	25	Y
	11	Y	26	Y
	12	Y	27	Y
	13	Y	28	Y
	14	Y	29	Y
	15	Y	30	N
Percentage of Detection required: 60%			Total percentage detected: 96.7%	

20MHz Bandwidth				
Radar Type	Trial #	Detection	Trial #	Detection
		Yes/No		Yes/No
1	1	Y	16	Y
	2	Y	17	Y
	3	Y	18	Y
	4	Y	19	Y
	5	Y	20	Y
	6	Y	21	Y
	7	Y	22	Y
	8	Y	23	Y
	9	Y	24	Y
	10	Y	25	Y
	11	Y	26	Y
	12	Y	27	Y
	13	Y	28	Y
	14	Y	29	Y
	15	Y	30	N
Percentage of Detection required: 60%			Total percentage detected: 96.7%	

10MHz Bandwidth				
Radar Type	Trial #	Detection	Trial #	Detection
		Yes/No		Yes/No
1	1	Y	16	Y
	2	Y	17	N
	3	Y	18	Y
	4	Y	19	Y
	5	Y	20	Y
	6	Y	21	Y
	7	Y	22	Y
	8	Y	23	Y
	9	Y	24	Y
	10	Y	25	Y
	11	Y	26	Y
	12	Y	27	Y
	13	Y	28	Y
	14	Y	29	Y
	15	Y	30	Y
Percentage of Detection required: 60%			Total percentage detected: 96.7%	

40MHz Bandwidth				
Radar Type	Trial #	Detection	Trial #	Detection
		Yes/No		Yes/No
2	1	Y	16	Y
	2	Y	17	Y
	3	Y	18	Y
	4	Y	19	Y
	5	Y	20	Y
	6	Y	21	Y
	7	Y	22	Y
	8	Y	23	Y
	9	Y	24	Y
	10	Y	25	Y
	11	Y	26	Y
	12	Y	27	Y
	13	Y	28	Y
	14	Y	29	Y
	15	Y	30	Y
Percentage of Detection required: 60%			Total percentage detected: 100%	

30MHz Bandwidth				
Radar Type	Trial #	Detection	Trial #	Detection
		Yes/No		Yes/No
2	1	Y	16	Y
	2	Y	17	Y
	3	Y	18	Y
	4	Y	19	Y
	5	Y	20	Y
	6	Y	21	Y
	7	Y	22	Y
	8	Y	23	Y
	9	Y	24	Y
	10	Y	25	Y
	11	Y	26	Y
	12	Y	27	Y
	13	Y	28	Y
	14	Y	29	Y
	15	Y	30	Y
Percentage of Detection required: 60%			Total percentage detected: 100%	

20MHz Bandwidth				
Radar Type	Trial #	Detection	Trial #	Detection
		Yes/No		Yes/No
2	1	Y	16	Y
	2	Y	17	Y
	3	Y	18	Y
	4	Y	19	Y
	5	Y	20	Y
	6	Y	21	Y
	7	Y	22	Y
	8	Y	23	Y
	9	Y	24	Y
	10	Y	25	Y
	11	Y	26	Y
	12	Y	27	Y
	13	Y	28	Y
	14	Y	29	Y
	15	Y	30	Y
Percentage of Detection required: 60%			Total percentage detected: 100%	

10MHz Bandwidth				
Radar Type	Trial #	Detection	Trial #	Detection
		Yes/No		Yes/No
2	1	Y	16	Y
	2	Y	17	Y
	3	Y	18	Y
	4	Y	19	Y
	5	Y	20	Y
	6	Y	21	Y
	7	Y	22	Y
	8	Y	23	Y
	9	Y	24	Y
	10	Y	25	Y
	11	Y	26	Y
	12	Y	27	Y
	13	Y	28	Y
	14	Y	29	Y
	15	Y	30	Y
Percentage of Detection required: 60%			Total percentage detected: 100%	

40MHz Bandwidth				
Radar Type	Trial #	Detection	Trial #	Detection
		Yes/No		Yes/No
3	1	Y	16	Y
	2	Y	17	Y
	3	Y	18	Y
	4	Y	19	Y
	5	Y	20	Y
	6	Y	21	Y
	7	Y	22	Y
	8	Y	23	Y
	9	Y	24	Y
	10	Y	25	Y
	11	Y	26	Y
	12	Y	27	Y
	13	Y	28	Y
	14	Y	29	Y
	15	Y	30	Y
Percentage of Detection required: 60%		Total percentage detected: 100%		

30MHz Bandwidth				
Radar Type	Trial #	Detection	Trial #	Detection
		Yes/No		Yes/No
3	1	Y	16	Y
	2	Y	17	Y
	3	Y	18	Y
	4	Y	19	Y
	5	Y	20	Y
	6	Y	21	Y
	7	Y	22	Y
	8	Y	23	Y
	9	Y	24	Y
	10	Y	25	Y
	11	Y	26	Y
	12	Y	27	Y
	13	Y	28	Y
	14	Y	29	Y
	15	Y	30	Y
Percentage of Detection required: 60%		Total percentage detected: 100%		

20MHz Bandwidth				
Radar Type	Trial #	Detection	Trial #	Detection
		Yes/No		Yes/No
3	1	Y	16	Y
	2	Y	17	Y
	3	Y	18	Y
	4	Y	19	Y
	5	Y	20	Y
	6	Y	21	Y
	7	Y	22	Y
	8	Y	23	Y
	9	Y	24	Y
	10	Y	25	Y
	11	Y	26	Y
	12	Y	27	Y
	13	Y	28	Y
	14	Y	29	Y
	15	Y	30	Y
Percentage of Detection required: 60%			Total percentage detected: 100%	

10MHz Bandwidth				
Radar Type	Trial #	Detection	Trial #	Detection
		Yes/No		Yes/No
3	1	Y	16	Y
	2	Y	17	Y
	3	Y	18	Y
	4	Y	19	Y
	5	Y	20	Y
	6	Y	21	Y
	7	Y	22	Y
	8	Y	23	Y
	9	Y	24	Y
	10	Y	25	Y
	11	Y	26	Y
	12	Y	27	Y
	13	Y	28	Y
	14	Y	29	Y
	15	Y	30	Y
Percentage of Detection required: 60%			Total percentage detected: 100%	

40MHz Bandwidth				
Radar Type	Trial #	Detection	Trial #	Detection
		Yes/No		Yes/No
4	1	Y	16	Y
	2	Y	17	Y
	3	Y	18	Y
	4	Y	19	Y
	5	Y	20	Y
	6	Y	21	Y
	7	Y	22	Y
	8	Y	23	Y
	9	Y	24	Y
	10	Y	25	Y
	11	Y	26	Y
	12	Y	27	Y
	13	Y	28	Y
	14	Y	29	Y
	15	Y	30	Y
Percentage of Detection required: 60%			Total percentage detected: 100%	

30MHz Bandwidth				
Radar Type	Trial #	Detection	Trial #	Detection
		Yes/No		Yes/No
4	1	Y	16	Y
	2	Y	17	Y
	3	Y	18	Y
	4	Y	19	Y
	5	Y	20	Y
	6	Y	21	Y
	7	Y	22	Y
	8	Y	23	Y
	9	Y	24	Y
	10	Y	25	Y
	11	Y	26	Y
	12	Y	27	Y
	13	Y	28	Y
	14	Y	29	Y
	15	Y	30	Y
Percentage of Detection required: 60%			Total percentage detected: 100%	

20MHz Bandwidth				
Radar Type	Trial #	Detection	Trial #	Detection
		Yes/No		Yes/No
4	1	Y	16	Y
	2	Y	17	Y
	3	Y	18	Y
	4	Y	19	Y
	5	Y	20	Y
	6	Y	21	Y
	7	Y	22	Y
	8	Y	23	Y
	9	Y	24	Y
	10	Y	25	Y
	11	Y	26	Y
	12	Y	27	Y
	13	Y	28	Y
	14	Y	29	Y
	15	Y	30	Y
Percentage of Detection required: 60%		Total percentage detected: 100%		

10MHz Bandwidth				
Radar Type	Trial #	Detection	Trial #	Detection
		Yes/No		Yes/No
4	1	Y	16	Y
	2	Y	17	Y
	3	Y	18	Y
	4	Y	19	Y
	5	Y	20	N
	6	N	21	Y
	7	Y	22	Y
	8	Y	23	Y
	9	Y	24	Y
	10	Y	25	Y
	11	Y	26	Y
	12	Y	27	Y
	13	Y	28	N
	14	Y	29	Y
	15	N	30	N
Percentage of Detection required: 60%		Total percentage detected: 83.3%		

40MHz Bandwidth						
Radar Type	Frequency	Trial #	Detection	Frequency	Trial #	Detection
			Yes/No			Yes/No
5	5603.8	1	N	5601.8	16	Y
	5580.5	2	Y	5593.8	17	Y
	5596.6	3	N	5588.3	18	Y
	5578.3	4	Y	5604.0	19	Y
	5587.8	5	Y	5600.0	20	Y
	5605.8	6	Y	5594.9	21	Y
	5597.9	7	Y	5583.3	22	N
	5576.6	8	N	5594.6	23	Y
	5576.3	9	Y	5580.4	24	Y
	5600.8	10	Y	5587.4	25	Y
	5590.0	11	Y	5583.9	26	N
	5595.3	12	Y	5594.4	27	Y
	5577.7	13	Y	5583.0	28	Y
	5588.7	14	Y	5584.3	29	Y
	5580.8	15	Y	5580.3	30	N
Percentage of Detection required: 80%			Total percentage detected: 80%			

30MHz Bandwidth						
Radar Type	Frequency	Trial #	Detection	Frequency	Trial #	Detection
			Yes/No			Yes/No
5	5591.2	1	N	5593.1	16	Y
	5581.5	2	Y	5584.8	17	Y
	5589.0	3	Y	5589.9	18	Y
	5578.6	4	Y	5593.7	19	Y
	5579.7	5	Y	5589.6	20	Y
	5584.6	6	Y	5590.8	21	Y
	5579.0	7	Y	5598.7	22	Y
	5601.0	8	Y	5586.4	23	Y
	5599.4	9	Y	5593.4	24	Y
	5600.1	10	Y	5598.3	25	Y
	5583.9	11	Y	5596.8	26	Y
	5585.6	12	Y	5578.2	27	Y
	5593.6	13	Y	5597.5	28	Y
	5595.6	14	Y	5597.2	29	Y
	5578.1	15	Y	5587.6	30	Y
Percentage of Detection required: 80%			Total percentage detected: 96.7%			

20MHz Bandwidth						
Radar Type	Frequency	Trial #	Detection	Frequency	Trial #	Detection
			Yes/No			Yes/No
5	5591.3	1	N	5590.6	16	N
	5583.6	2	Y	5589.5	17	Y
	5589.2	3	Y	5591.1	18	Y
	5594.9	4	Y	5596.7	19	Y
	5587.2	5	Y	5583.4	20	Y
	5594.5	6	Y	5596.9	21	Y
	5587.6	7	Y	5595.5	22	Y
	5595.2	8	Y	5588.5	23	Y
	5597.8	9	Y	5594.5	24	Y
	5590.9	10	Y	5588.8	25	N
	5595.2	11	Y	5592.4	26	Y
	5592.8	12	Y	5593.3	27	Y
	5587.3	13	N	5590.6	28	Y
	5588.7	14	Y	5597.5	29	Y
	5590.4	15	Y	5586.6	30	N
Percentage of Detection required: 80%				Total percentage detected: 83.3%		

10MHz Bandwidth						
Radar Type	Frequency	Trial #	Detection	Frequency	Trial #	Detection
			Yes/No			Yes/No
5	5590.5	1	N	5593.2	16	Y
	5593.5	2	Y	5593.2	17	Y
	5592.2	3	Y	5591.9	18	Y
	5590.2	4	N	5593.5	19	Y
	5587.7	5	Y	5589.4	20	Y
	5593.2	6	Y	5591.3	21	Y
	5586.6	7	Y	5590.7	22	Y
	5587.4	8	Y	5590.1	23	N
	5589.2	9	Y	5591.4	24	Y
	5591.7	10	Y	5586.5	25	N
	5588.4	11	Y	5591.9	26	Y
	5588.4	12	Y	5588.0	27	Y
	5590.0	13	Y	5592.8	28	Y
	5593.5	14	Y	5587.4	29	Y
	5589.6	15	Y	5593.2	30	Y
Percentage of Detection required: 80%				Total percentage detected: 86.7%		

40MHz Bandwidth				
Radar Type	Trial #	Detection	Trial #	Detection
		Yes/No		Yes/No
6	1	Y	16	Y
	2	Y	17	Y
	3	Y	18	Y
	4	Y	19	Y
	5	Y	20	Y
	6	Y	21	Y
	7	Y	22	Y
	8	Y	23	Y
	9	Y	24	Y
	10	Y	25	Y
	11	Y	26	Y
	12	Y	27	Y
	13	Y	28	Y
	14	Y	29	Y
	15	Y	30	Y
Percentage of Detection required: 60%			Total percentage detected: 100%	

30MHz Bandwidth				
Radar Type	Trial #	Detection	Trial #	Detection
		Yes/No		Yes/No
6	1	Y	16	Y
	2	Y	17	Y
	3	Y	18	Y
	4	Y	19	Y
	5	Y	20	Y
	6	Y	21	Y
	7	Y	22	Y
	8	Y	23	Y
	9	Y	24	Y
	10	Y	25	Y
	11	Y	26	Y
	12	Y	27	Y
	13	Y	28	Y
	14	Y	29	Y
	15	Y	30	Y
Percentage of Detection required: 60%			Total percentage detected: 96.7%	

20MHz Bandwidth				
Radar Type	Trial #	Detection	Trial #	Detection
		Yes/No		Yes/No
6	1	Y	16	Y
	2	Y	17	Y
	3	Y	18	Y
	4	Y	19	Y
	5	Y	20	Y
	6	Y	21	Y
	7	Y	22	Y
	8	Y	23	Y
	9	Y	24	Y
	10	Y	25	Y
	11	Y	26	Y
	12	Y	27	Y
	13	Y	28	Y
	14	Y	29	Y
	15	Y	30	Y
Percentage of Detection required: 60%			Total percentage detected: 100%	

10MHz Bandwidth				
Radar Type	Trial #	Detection	Trial #	Detection
		Yes/No		Yes/No
6	1	Y	16	Y
	2	Y	17	Y
	3	Y	18	Y
	4	Y	19	Y
	5	Y	20	Y
	6	Y	21	Y
	7	Y	22	Y
	8	Y	23	Y
	9	Y	24	Y
	10	Y	25	Y
	11	Y	26	Y
	12	Y	27	Y
	13	Y	28	Y
	14	Y	29	Y
	15	Y	30	Y
Percentage of Detection required: 60%			Total percentage detected: 100%	

Radar Type 1 10MHz Bandwidth			
Trial #	Pulse Width (μS)	PRI (μS)	Number Pulses per burst
1	1	858	62
2	1	3066	18
3	1	898	59
4	1	598	89
5	1	938	57
6	1	578	92
7	1	838	63
8	1	558	95
9	1	678	78
10	1	918	58
11	1	698	76
12	1	878	61
13	1	618	86
14	1	798	67
15	1	518	102
16	1	2190	25
17	1	1537	35
18	1	1491	36
19	1	785	68
20	1	2378	23
21	1	1625	33
22	1	1011	53
23	1	1860	29
24	1	2552	21
25	1	2716	20
26	1	1027	52
27	1	2644	20
28	1	971	55
29	1	2220	24
30	1	2964	18

Radar Type 2 10MHz Bandwidth			
Trial #	Pulse Width (μS)	PRI (μS)	Number Pulses per burst
1	2	225	29
2	2.3	161	26
3	1.9	189	24
4	1.6	226	25
5	3.9	186	26
6	3.5	164	29
7	2.1	172	29
8	3.2	221	25
9	1.1	188	27
10	2.5	173	27
11	3.1	169	23
12	2	172	24
13	3.6	228	24
14	3.1	194	23
15	2.4	219	25
16	3.1	157	26
17	2.5	195	27
18	2.7	207	25
19	1	191	28
20	4.1	194	26
21	1.1	179	27
22	3.3	226	25
23	3	190	28
24	4.3	192	27
25	1.3	187	25
26	2.7	221	29
27	4.4	163	24
28	5	188	23
29	1.5	214	24
30	1.8	190	27

Radar Type 3 10MHz Bandwidth			
Trial #	Pulse Width (μS)	PRI (μS)	Number Pulses per burst
1	7.5	293	18
2	6.2	462	17
3	8.3	475	16
4	6.4	208	17
5	6.4	452	16
6	6.1	320	16
7	6.1	281	17
8	9.5	397	16
9	9.9	218	18
10	8.8	352	17
11	9.6	430	18
12	7.3	380	18
13	9.2	217	16
14	10	318	18
15	10	290	18
16	7.4	357	18
17	9.9	477	17
18	9.4	291	17
19	6.7	313	18
20	7.8	466	17
21	7.2	353	17
22	8.9	278	17
23	8.3	206	18
24	7.7	498	18
25	9.6	500	16
26	6.7	425	17
27	8.4	460	16
28	6.9	347	16
29	9.2	389	17
30	8.6	229	18

Radar Type 4 10MHz Bandwidth			
Trial #	Pulse Width (μS)	PRI (μS)	Number Pulses per burst
1	11.8	275	16
2	18.3	252	16
3	11.8	344	12
4	18.2	247	12
5	15.9	444	12
6	18.3	382	16
7	17.1	208	15
8	12.4	271	14
9	13.1	361	14
10	13.2	209	14
11	15.4	398	12
12	11.9	410	13
13	15.5	298	16
14	15.9	303	14
15	19.3	277	16
16	12.8	361	14
17	12.2	307	12
18	13.9	462	15
19	14.4	249	14
20	19.8	221	14
21	11.8	311	15
22	15.8	268	13
23	17.9	381	12
24	11.8	367	16
25	17	497	14
26	17.8	356	14
27	13.8	250	12
28	19.6	459	12
29	11	295	12
30	19.6	347	13

Radar Type 1 20MHz Bandwidth			
Trial #	Pulse Width (μ S)	PRI (μ S)	Number Pulses per burst
1	1	838	63
2	1	698	76
3	1	918	58
4	1	798	67
5	1	898	59
6	1	778	68
7	1	818	65
8	1	938	57
9	1	578	92
10	1	638	83
11	1	658	81
12	1	858	62
13	1	738	72
14	1	538	99
15	1	518	102
16	1	1211	44
17	1	2644	20
18	1	814	65
19	1	2676	20
20	1	1608	33
21	1	2910	19
22	1	2496	22
23	1	2539	21
24	1	881	60
25	1	1295	41
26	1	1552	35
27	1	1324	40
28	1	532	100
29	1	2808	19
30	1	2879	19

Radar Type 2 20MHz Bandwidth			
Trial #	Pulse Width (μS)	PRI (μS)	Number Pulses per burst
1	1.8	177	23
2	2.5	182	26
3	2.8	202	24
4	1.5	183	23
5	1	191	23
6	2.2	163	23
7	3.1	182	27
8	3.2	181	25
9	3.7	210	29
10	1.2	191	23
11	1.8	206	25
12	2.7	180	23
13	4.2	212	25
14	1.4	204	27
15	3.8	200	25
16	3.3	152	23
17	4.3	181	28
18	1.8	226	25
19	3.2	154	25
20	2.6	154	28
21	3	220	29
22	3.5	187	29
23	3.1	167	25
24	4.1	160	26
25	4.9	228	29
26	4.4	150	26
27	2.6	187	23
28	4.1	167	26
29	3.1	210	24
30	3.9	155	23

Radar Type 3 20MHz Bandwidth			
Trial #	Pulse Width (μS)	PRI (μS)	Number Pulses per burst
1	9.4	389	16
2	6.2	206	18
3	6.1	427	18
4	10	242	16
5	7.4	432	16
6	8.4	374	18
7	7.7	321	18
8	7.9	313	16
9	8.5	400	16
10	8.7	398	18
11	7.6	279	17
12	6.9	479	16
13	9.2	356	18
14	6.8	419	16
15	8.7	388	18
16	9	318	16
17	7.9	258	18
18	8.2	209	17
19	6.4	360	16
20	8.6	259	18
21	6.4	321	18
22	6.1	344	18
23	8.5	473	18
24	8.8	484	16
25	7	362	17
26	9.2	332	17
27	6.7	401	17
28	9.3	447	16
29	9.2	364	18
30	9.3	227	16

Radar Type 4 20MHz Bandwidth			
Trial #	Pulse Width (μS)	PRI (μS)	Number Pulses per burst
1	11.8	313	16
2	15.8	467	13
3	19.4	221	13
4	13.9	291	15
5	13.5	467	12
6	17.2	256	16
7	17.6	278	13
8	18	407	12
9	16.7	361	12
10	18.7	414	12
11	18.8	347	12
12	13.1	442	15
13	13.6	472	13
14	15	365	16
15	12.2	261	12
16	13.4	301	14
17	19.1	433	13
18	13.5	480	15
19	15.3	344	12
20	14.9	492	14
21	14.4	278	16
22	19.7	249	14
23	12.4	355	12
24	12.7	362	13
25	12.2	223	12
26	13.7	312	12
27	17.6	433	12
28	19.4	320	12
29	17.9	265	15
30	18	397	14

Radar Type 1 30MHz Bandwidth			
Trial #	Pulse Width (μ S)	PRI (μ S)	Number Pulses per burst
1	1	918	58
2	1	858	62
3	1	558	95
4	1	718	74
5	1	658	81
6	1	518	102
7	1	738	72
8	1	798	67
9	1	638	83
10	1	878	61
11	1	678	78
12	1	698	76
13	1	578	92
14	1	538	99
15	1	778	68
16	1	749	71
17	1	2302	23
18	1	1051	51
19	1	868	61
20	1	2303	23
21	1	1241	43
22	1	619	86
23	1	2491	22
24	1	2607	21
25	1	2319	23
26	1	2476	22
27	1	2539	21
28	1	1424	38
29	1	1473	36
30	1	1147	47

Radar Type 2 30MHz Bandwidth			
Trial #	Pulse Width (μS)	PRI (μS)	Number Pulses per burst
1	4	223	27
2	1.9	200	26
3	4.7	224	27
4	3.1	198	25
5	2.2	160	23
6	4	189	24
7	3	189	23
8	1.7	191	26
9	2.4	186	27
10	2.1	209	26
11	1.7	200	29
12	2.8	228	29
13	3.5	174	26
14	4	177	26
15	2.4	178	23
16	1	172	29
17	2.9	199	23
18	2.5	156	29
19	1.2	211	26
20	4.5	196	28
21	4	224	26
22	3.2	215	23
23	1.7	173	23
24	3.1	180	28
25	3.1	170	27
26	4	152	27
27	5	174	27
28	2.8	198	25
29	1.7	208	27
30	4.7	161	26

Radar Type 3 30MHz Bandwidth			
Trial #	Pulse Width (μS)	PRI (μS)	Number Pulses per burst
1	8.6	487	18
2	7.4	261	17
3	9.9	315	16
4	8.8	436	18
5	7.8	451	17
6	8.5	405	18
7	6.4	381	17
8	7.6	258	17
9	9.4	320	16
10	9.7	346	16
11	8.3	441	17
12	9.9	451	17
13	7.8	325	18
14	6.9	453	18
15	7.8	401	18
16	9.8	252	18
17	10	323	16
18	6.8	339	18
19	9.3	301	16
20	8	392	18
21	6.1	291	18
22	8.2	369	17
23	8.1	436	18
24	8	410	16
25	7.4	296	17
26	6	463	17
27	8	250	16
28	9.6	467	18
29	7.1	388	16
30	9.4	244	16

Radar Type 4 30MHz Bandwidth			
Trial #	Pulse Width (μS)	PRI (μS)	Number Pulses per burst
1	14.7	271	12
2	13.8	408	12
3	19.4	439	12
4	16.6	489	15
5	14.7	310	12
6	19.6	441	12
7	16.8	243	14
8	14	254	15
9	14.6	239	16
10	13.3	482	16
11	19.9	238	12
12	16.3	333	15
13	18.1	344	16
14	17.5	228	15
15	18.2	314	12
16	18.7	336	13
17	19.9	258	13
18	19.6	393	12
19	15.3	401	12
20	11.1	237	12
21	11.1	380	15
22	17.7	470	13
23	14.2	440	12
24	15.5	386	16
25	14.7	327	16
26	12.9	276	12
27	17.9	457	15
28	11.3	481	16
29	15.3	315	14
30	11.6	380	14

Radar Type 1 40MHz Bandwidth			
Trial #	Pulse Width (μ S)	PRI (μ S)	Number Pulses per burst
1	1	578	92
2	1	558	95
3	1	538	99
4	1	678	78
5	1	738	72
6	1	798	67
7	1	878	61
8	1	858	62
9	1	938	57
10	1	518	102
11	1	658	81
12	1	778	68
13	1	758	70
14	1	838	63
15	1	618	86
16	1	2680	20
17	1	789	67
18	1	770	69
19	1	2193	25
20	1	2624	21
21	1	2988	18
22	1	2272	24
23	1	567	94
24	1	3038	18
25	1	621	85
26	1	2844	19
27	1	1289	41
28	1	543	98
29	1	2721	20
30	1	2567	21

Radar Type 2 40MHz Bandwidth			
Trial #	Pulse Width (μS)	PRI (μS)	Number Pulses per burst
1	3.1	158	27
2	1.4	218	28
3	4.6	163	23
4	1	219	26
5	4.9	189	25
6	2.1	159	23
7	4.3	208	23
8	3.9	172	29
9	2.5	210	29
10	4.3	202	26
11	4	151	25
12	3.5	167	29
13	3	224	24
14	2	214	25
15	2.9	230	24
16	3.8	170	28
17	4	211	26
18	4.5	157	27
19	4.5	150	27
20	1.3	181	27
21	4.5	184	25
22	3.3	162	26
23	4.6	185	25
24	3	171	26
25	3.7	224	29
26	1.1	210	23
27	4.5	163	27
28	1.3	190	28
29	5	176	23
30	2.1	174	28

Radar Type 3 40MHz Bandwidth			
Trial #	Pulse Width (μS)	PRI (μS)	Number Pulses per burst
1	6	227	16
2	9.8	248	16
3	9.6	434	18
4	10	391	16
5	8.5	311	17
6	8.8	403	16
7	8.9	307	16
8	6.3	324	16
9	8.4	203	18
10	9.9	385	17
11	6.2	264	17
12	7.3	333	17
13	9.7	277	17
14	6.1	335	17
15	6.2	336	17
16	8.2	216	16
17	8.4	245	16
18	7.3	285	16
19	6.3	293	16
20	9.1	383	16
21	9.3	365	16
22	8.8	491	18
23	6.1	224	18
24	7	418	18
25	8.7	422	18
26	9.2	375	16
27	10	405	17
28	7.2	208	16
29	7.1	379	18
30	7.4	255	16

Radar Type 4 40MHz Bandwidth			
Trial #	Pulse Width (μ S)	PRI (μ S)	Number Pulses per burst
1	18.1	425	14
2	13.3	442	16
3	17	293	16
4	14.5	342	13
5	12.2	426	12
6	17	322	15
7	14.4	319	13
8	11.1	465	16
9	19.1	362	12
10	18.8	450	13
11	12.1	279	16
12	12.2	254	16
13	15.3	242	12
14	17.4	492	13
15	14.6	231	12
16	18.6	473	13
17	13.4	423	14
18	15.5	232	12
19	15	337	16
20	19.9	474	14
21	14.1	349	14
22	14.6	414	12
23	19.5	404	14
24	13.3	275	14
25	16.3	382	12
26	18.5	251	16
27	17	366	13
28	19.9	493	14
29	11	384	15
30	16.7	431	16

New3RandParmBin5

Random DFS waveform parameters (NewBin5) 22-Jun-2015 11:27:29

Waveform Num = 1
 Num of Bursts = 13
 Burst Interval (us) = 923077.0

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	675207	3	8.0	92	1651	1597	1824	675207	0	923076
2	440043	2	9.0	97	1944	1118	0	1120322	923077	1846153
3	1468618	2	19.0	63	1182	1150	0	2592002	1846154	2769230
4	1048443	3	11.0	53	1811	1297	1843	3642777	2769231	3692307
5	70333	2	14.0	52	1272	1937	0	3718061	3692308	4615384
6	1059769	3	12.0	72	1137	1826	1675	4781039	4615385	5538461
7	1571303	3	18.0	78	1303	1972	1969	6356980	5538462	6461538
8	1018858	2	17.0	88	1400	1532	0	7381082	6461539	7384615
9	383277	3	11.0	67	1739	1349	1783	7767291	7384616	8307692
10	1384202	2	17.0	56	1717	1897	0	9156364	8307693	9230769
11	361990	1	15.0	55	1750	0	0	9521968	9230770	10153846
12	910165	3	8.0	55	1713	1639	1114	10433883	10153847	11076923
13	1186275	2	20.0	63	1259	1121	0	11624624	11076924	12000000

Total number of pulses in waveform = 31

♀
 Waveform Num = 2
 Num of Bursts = 20
 Burst Interval (us) = 600000.0

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	488278	2	11.0	76	1354	1470	0	488278	0	599999
2	465275	3	11.0	69	1402	1850	1050	956377	600000	1199999

New3RandParmBin5										
3	549242	3	20.0	71	1978	1690	1561	1509921	1200000	1799999
4	623808	1	20.0	71	1777	0	0	2138958	1800000	2399999
5	699885	1	5.0	55	1020	0	0	2840620	2400000	2999999
6	168946	1	20.0	59	1239	0	0	3010586	3000000	3599999
7	808979	1	11.0	91	1026	0	0	3820804	3600000	4199999
8	628710	1	7.0	95	1116	0	0	4450540	4200000	4799999
9	569643	2	6.0	57	1257	1154	0	5021299	4800000	5399999
10	591126	2	19.0	55	1369	1060	0	5614836	5400000	5999999
11	481419	3	18.0	95	1402	1239	1240	6098684	6000000	6599999
12	546007	1	6.0	61	1024	0	0	6648572	6600000	7199999
13	587295	1	10.0	89	1916	0	0	7236891	7200000	7799999
14	566554	3	18.0	99	1679	1615	1125	7805361	7800000	8399999
15	599661	2	10.0	67	1692	1804	0	8409441	8400000	8999999
16	1016444	2	13.0	72	1543	1045	0	9429381	9000000	9599999
17	392672	2	12.0	67	1815	1041	0	9824641	9600000	10199999
18	765054	3	14.0	78	1755	1120	1298	10592551	10200000	10799999
19	533193	1	10.0	69	1923	0	0	11129917	10800000	11399999
20	749438	2	7.0	86	1482	1226	0	11881278	11400000	11999999
Total number of pulses in waveform = 37										

Waveform Num = 3
 Num of Bursts = 8
 Burst Interval (us) = 1500000.0

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	1030603	1	11.0	98	1373	0	0	1030603	0	1499999
2	963772	1	8.0	60	1652	0	0	1995748	1500000	2999999

New3RandParmBin5										
3	1175280	2	9.0	50	1116	1415	0	3172680	3000000	4499999
4	1634819	2	19.0	93	1160	1514	0	4810030	4500000	5999999
5	2041360	3	14.0	82	1343	1178	1037	6854064	6000000	7499999
6	930427	3	11.0	91	1978	1053	1793	7788049	7500000	8999999
7	1962273	2	5.0	85	1017	1674	0	9755146	9000000	10499999
8	1288535	1	8.0	93	1817	0	0	11046372	10500000	11999999
Total number of pulses in waveform = 15										

‡
 Waveform Num = 4
 Num of Bursts = 17
 Burst Interval (us) = 705882.0

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	634182	1	9.0	56	1429	0	0	634182	0	705881
2	493245	2	7.0	60	1938	1244	0	1128856	705882	1411763
3	591799	3	17.0	77	1626	1504	1968	1723837	1411764	2117645
4	923781	1	10.0	72	1050	0	0	2652716	2117646	2823527
5	595084	1	10.0	73	1251	0	0	3248850	2823528	3529409
6	292832	1	9.0	81	1813	0	0	3542933	3529410	4235291
7	1172144	3	12.0	60	1478	1694	1284	4716890	4235292	4941173
8	865086	2	13.0	78	1134	1681	0	5586432	4941174	5647055
9	228286	3	17.0	60	1113	1223	1406	5817533	5647056	6352937
10	1055971	1	18.0	80	1149	0	0	6877246	6352938	7058819
11	255399	1	19.0	64	1709	0	0	7133794	7058820	7764701
12	829988	1	20.0	95	1520	0	0	7965491	7764702	8470583
13	698026	3	6.0	50	1193	1372	1542	8665037	8470584	9176465
14	769847	1	9.0	84	1791	0	0	9438991	9176466	9882347

New3RandParmBin5

15	852435	2	8.0	51	1743	1455	0	10293217	9882348	10588229
16	668064	3	14.0	76	1561	1433	1866	10964479	10588230	11294111
17	1029008	1	14.0	58	1476	0	0	11998347	11294112	11999993

Total number of pulses in waveform = 30

♀
Waveform Num = 5
Num of Bursts = 20
Burst Interval (us) = 600000.0

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	515361	2	14.0	75	1287	1335	0	515361	0	599999
2	642863	3	11.0	92	1165	1679	1797	1160846	600000	1199999
3	332834	1	20.0	95	1875	0	0	1498321	1200000	1799999
4	453449	2	20.0	61	1000	1032	0	1953645	1800000	2399999
5	449798	2	10.0	54	1280	1978	0	2405475	2400000	2999999
6	932710	1	11.0	61	1297	0	0	3341443	3000000	3599999
7	443363	3	7.0	77	1694	1412	1796	3786103	3600000	4199999
8	512371	3	20.0	83	1668	1237	1951	4303376	4200000	4799999
9	887449	3	8.0	55	1451	1477	1470	5195681	4800000	5399999
10	556737	2	15.0	96	1367	1543	0	5756816	5400000	5999999
11	320127	2	18.0	75	1621	1936	0	6079853	6000000	6599999
12	917916	2	8.0	53	1426	1705	0	7001326	6600000	7199999
13	659457	1	16.0	97	1580	0	0	7663914	7200000	7799999
14	172252	3	11.0	80	1098	1461	1145	7837746	7800000	8399999
15	654452	2	18.0	85	1044	1502	0	8495902	8400000	8999999
16	707357	3	6.0	77	1942	1781	1061	9205805	9000000	9599999
17	824373	2	6.0	52	1173	1323	0	10034962	9600000	10199999

New3RandParmBin5

18	711583	2	8.0	84	1012	1770	0	10749041	10200000	10799999
19	586507	3	5.0	74	1459	1326	1535	11338330	10800000	11399999
20	594315	3	5.0	92	1983	1086	1843	11936965	11400000	11999999

Total number of pulses in waveform = 45

♀

Waveform Num = 6

Num of Bursts = 17

Burst Interval (us) = 705882.0

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	384684	3	9.0	95	1339	1948	1041	384684	0	705881
2	503594	3	9.0	92	1096	1581	1706	892606	705882	1411763
3	1022373	2	14.0	69	1151	1982	0	1919362	1411764	2117645
4	389375	2	18.0	55	1613	1223	0	2311870	2117646	2823527
5	773033	3	11.0	53	1452	1872	1205	3087739	2823528	3529409
6	990293	2	12.0	67	1613	1246	0	4082561	3529410	4235291
7	338579	2	18.0	77	1794	1701	0	4423999	4235292	4941173
8	888969	2	12.0	86	1989	1096	0	5316463	4941174	5647055
9	922753	1	15.0	53	1206	0	0	6242301	5647056	6352937
10	425644	1	20.0	68	1697	0	0	6669151	6352938	7058819
11	1064354	2	11.0	91	1456	1372	0	7735202	7058820	7764701
12	306039	3	12.0	99	1865	1285	1168	8044069	7764702	8470583
13	666544	1	6.0	63	1842	0	0	8714931	8470584	9176465
14	763338	1	8.0	100	1626	0	0	9480111	9176466	9882347
15	624462	2	20.0	98	1845	1709	0	10106199	9882348	10588229
16	861350	3	15.0	79	1058	1107	1958	10971103	10588230	11294111
17	956403	2	18.0	64	1164	1550	0	11931629	11294112	11999993

New3RandParmBin5

Total number of pulses in waveform = 35

♀

Waveform Num = 7

Num of Bursts = 18

Burst Interval (us) = 666667.0

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)
	589201									
1	203778	1	14.0	93	1671	0	0	589201	0	666666
2	1045442	1	8.0	82	1345	0	0	794650	666667	1333333
3	392691	3	7.0	91	1084	1760	1668	1841437	1333334	2000000
4	451565	2	11.0	67	1014	1833	0	2238640	2000001	2666667
5	1036897	2	19.0	82	1396	1885	0	2693052	2666668	3333334
6	739182	3	14.0	96	1689	1391	1256	3733230	3333335	4000001
7	545135	2	17.0	62	1191	1611	0	4476748	4000002	4666668
8	685518	3	15.0	75	1237	1086	1572	5024685	4666669	5333335
9	462391	2	7.0	63	1360	1439	0	5714098	5333336	6000002
10	875387	2	18.0	100	1717	1505	0	6179288	6000003	6666669
11	418933	3	17.0	96	1726	1127	1947	7057897	6666670	7333336
12	799165	1	5.0	83	1549	0	0	7481630	7333337	8000003
13	543593	3	6.0	56	1666	1001	1023	8282344	8000004	8666670
14	1041439	3	9.0	96	1666	1865	1109	8829627	8666671	9333337
15	287899	3	16.0	67	1085	1801	1332	9875706	9333338	10000004
16	803740	2	19.0	87	1256	1442	0	10167823	10000005	10666671
17	697240	1	8.0	98	1074	0	0	10974261	10666672	11333338
18		3	13.0	56	1210	1547	1392	11672575	11333339	12000005

Total number of pulses in waveform = 40

♀

Waveform Num = 8

Num of Bursts = 8

New3RandParmBin5

Burst Interval (us) = 1500000.0

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	1275524	1	7.0	67	1154	0	0	1275524	0	1499999
2	637787	2	13.0	68	1969	1920	0	1914465	1500000	2999999
3	2359093	3	19.0	99	1126	1796	1738	4277447	3000000	4499999
4	341457	1	11.0	55	1485	0	0	4623564	4500000	5999999
5	2702400	2	7.0	95	1145	1657	0	7327449	6000000	7499999
6	366407	3	16.0	89	1111	1927	1818	7696658	7500000	8999999
7	1474751	3	13.0	88	1085	1856	1264	9176265	9000000	10499999
8	2398187	3	7.0	94	1392	1068	1086	11578657	10500000	11999999

Total number of pulses in waveform = 18

♀

Waveform Num = 9

Num of Bursts = 16

Burst Interval (us) = 750000.0

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	495621	3	14.0	56	1415	1357	1530	495621	0	749999
2	359633	3	19.0	69	1697	1770	1374	859556	750000	1499999
3	1241276	3	7.0	72	1157	1948	1876	2105673	1500000	2249999
4	344105	3	12.0	87	1178	1811	1709	2454759	2250000	2999999
5	1183444	3	14.0	74	1827	1239	1697	3642901	3000000	3749999
6	452362	3	19.0	75	1197	1723	1285	4100026	3750000	4499999
7	935610	1	8.0	50	1142	0	0	5039841	4500000	5249999
8	904263	2	11.0	66	1528	1618	0	5945246	5250000	5999999
9	378909	2	16.0	75	1066	1712	0	6327301	6000000	6749999
10	603151	3	19.0	94	1125	1856	1723	6933230	6750000	7499999

New3RandParmBin5

11	735294	1	6.0	82	1920	0	0	7673228	7500000	8249999
12	899586	2	9.0	83	1263	1480	0	8574734	8250000	8999999
13	731843	3	12.0	65	1313	1769	1879	9309320	9000000	9749999
14	731040	2	19.0	83	1653	1702	0	10045321	9750000	10499999
15	1138316	2	10.0	50	1821	1888	0	11186992	10500000	11249999
16	538414	3	12.0	70	1870	1907	1601	11729115	11250000	11999999

Total number of pulses in waveform = 39

♀

Waveform Num = 10

Num of Bursts = 18

Burst Interval (us) = 666667.0

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	542376	2	9.0	72	1305	1197	0	542376	0	666666
2	201025	3	8.0	57	1111	1588	1317	745903	666667	1333333
3	714494	1	19.0	67	1394	0	0	1464413	1333334	2000000
4	730093	1	9.0	90	1794	0	0	2195900	2000001	2666667
5	529978	2	7.0	55	1771	1015	0	2727672	2666668	3333334
6	668694	2	13.0	61	1589	1570	0	3399152	3333335	4000001
7	1254388	1	6.0	57	1768	0	0	4656699	4000002	4666668
8	458287	1	5.0	53	1960	0	0	5116754	4666669	5333335
9	591044	3	19.0	81	1424	1533	1094	5709758	5333336	6000002
10	800693	3	6.0	53	1961	1999	1275	6514502	6000003	6666669
11	750298	2	10.0	96	1929	1710	0	7270035	6666670	7333336
12	87373	2	8.0	99	1888	1462	0	7361047	7333337	8000003
13	894812	1	11.0	92	1604	0	0	8259209	8000004	8666670
14	526570	2	11.0	68	1733	1678	0	8787383	8666671	9333337

New3RandParmBin5

15	623569	2	10.0	51	1467	1109	0	9414363	9333338	10000004
16	598432	2	19.0	77	1875	1088	0	10015371	10000005	10666671
17	1194152	2	13.0	80	1229	1988	0	11212486	10666672	11333338
18	586177	2	17.0	75	1798	1993	0	11801880	11333339	12000005

Total number of pulses in waveform = 34

♀
Waveform Num = 11
Num of Bursts = 14
Burst Interval (us) = 857143.0

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	486392	1	17.0	80	1392	0	0	486392	0	857142
2	940938	1	20.0	62	1486	0	0	1428722	857143	1714285
3	883487	3	13.0	52	1690	1779	1999	2313695	1714286	2571428
4	955688	3	20.0	79	1178	1098	1428	3274851	2571429	3428571
5	211373	2	19.0	68	1758	1460	0	3489928	3428572	4285714
6	1069452	2	13.0	53	1420	1188	0	4562598	4285715	5142857
7	1114885	1	6.0	78	1530	0	0	5680091	5142858	6000000
8	667033	1	16.0	99	1219	0	0	6348654	6000001	6857143
9	1066594	3	10.0	68	1617	1938	1188	7416467	6857144	7714286
10	894289	2	5.0	72	1215	1005	0	8315499	7714287	8571429
11	821252	1	5.0	65	1376	0	0	9138971	8571430	9428572
12	923062	3	7.0	65	1662	1805	1475	10063409	9428573	10285715
13	619968	3	18.0	89	1061	1557	1138	10688319	10285716	11142858
14	1170260	1	16.0	76	1436	0	0	11862335	11142859	12000001

Total number of pulses in waveform = 27

♀
Waveform Num = 12
Num of Bursts = 15

New3RandParmBin5

Burst Interval (us) = 800000.0

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	51402	2	13.0	86	1453	1770	0	51402	0	799999
2	757531	2	16.0	99	1909	1813	0	812156	800000	1599999
3	1365902	1	16.0	97	1864	0	0	2181780	1600000	2399999
4	718237	1	13.0	98	1417	0	0	2901881	2400000	3199999
5	383736	1	8.0	79	1450	0	0	3287034	3200000	3999999
6	1395651	1	5.0	56	1319	0	0	4684135	4000000	4799999
7	877288	1	9.0	67	1385	0	0	5562742	4800000	5599999
8	671218	3	6.0	85	1050	1321	1876	6235345	5600000	6399999
9	341372	1	10.0	79	1140	0	0	6580964	6400000	7199999
10	735086	1	14.0	50	1537	0	0	7317190	7200000	7999999
11	1382766	1	18.0	90	1070	0	0	8701493	8000000	8799999
12	179428	1	16.0	96	1943	0	0	8881991	8800000	9599999
13	1383350	1	6.0	85	1586	0	0	10267284	9600000	10399999
14	167713	1	17.0	96	1310	0	0	10436583	10400000	11199999
15	1158135	2	19.0	98	1155	1617	0	11596028	11200000	11999999

Total number of pulses in waveform = 20

♀

Waveform Num = 13

Num of Bursts = 14

Burst Interval (us) = 857143.0

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	210365	1	14.0	51	1345	0	0	210365	0	857142
2	774761	2	20.0	52	1775	1389	0	986471	857143	1714285
3	938273	2	12.0	79	1329	1860	0	1927908	1714286	2571428

New3RandParmBin5										
4	872526	2	19.0	81	1397	1714	0	2803623	2571429	3428571
5	1172267	1	16.0	100	1510	0	0	3979001	3428572	4285714
6	576638	3	9.0	60	1900	1111	1933	4557149	4285715	5142857
7	1329366	2	9.0	74	1555	1494	0	5891459	5142858	6000000
8	226393	3	9.0	69	1547	1070	1434	6120901	6000001	6857143
9	1199493	2	8.0	73	1725	1656	0	7324445	6857144	7714286
10	987030	1	19.0	71	1892	0	0	8314856	7714287	8571429
11	334238	1	6.0	98	1983	0	0	8650986	8571430	9428572
12	1227993	2	12.0	52	1310	1459	0	9880962	9428573	10285715
13	1228237	1	9.0	51	1744	0	0	11111968	10285716	11142858
14	316460	2	7.0	94	1540	1561	0	11430172	11142859	12000001

Total number of pulses in waveform = 25

♀

Waveform Num = 14

Num of Bursts = 8

Burst Interval (us) = 1500000.0

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	317993	2	18.0	59	1625	1919	0	317993	0	1499999
2	1491079	1	14.0	71	1183	0	0	1812616	1500000	2999999
3	2065322	1	5.0	74	1561	0	0	3879121	3000000	4499999
4	1464118	2	7.0	86	1089	1099	0	5344800	4500000	5999999
5	1092668	2	12.0	82	1961	1733	0	6439656	6000000	7499999
6	2464645	2	5.0	76	1354	1704	0	8907995	7500000	8999999
7	612577	2	5.0	74	1765	1618	0	9523630	9000000	10499999
8	2245204	2	10.0	54	1009	1709	0	11772217	10500000	11999999

Total number of pulses in waveform = 14

♀

New3RandParmBin5

Waveform Num = 15
 Num of Bursts = 11
 Burst Interval (us) = 1090909.0

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	686734	3	12.0	88	1117	1800	1833	686734	0	1090908
2	962494	3	19.0	96	1035	1893	1043	1653978	1090909	2181817
3	782281	1	5.0	65	1240	0	0	2440230	2181818	3272726
4	1844722	3	20.0	71	1877	1798	1350	4286192	3272727	4363635
5	851130	2	6.0	98	1827	1114	0	5142347	4363636	5454544
6	1002968	3	13.0	56	1287	1659	1964	6148256	5454545	6545453
7	751701	1	7.0	67	1058	0	0	6904867	6545454	7636362
8	1483577	2	11.0	90	1782	1138	0	8389502	7636363	8727271
9	1302789	1	20.0	68	1956	0	0	9695211	8727272	9818180
10	1122453	3	17.0	66	1562	1767	1841	10819620	9818181	10909089
11	613356	3	8.0	100	1545	1820	1343	11438146	10909090	11999998

Total number of pulses in waveform = 25

♀
 Waveform Num = 16
 Num of Bursts = 13
 Burst Interval (us) = 923077.0

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	78911	2	11.0	59	1070	1169	0	78911	0	923076
2	1410454	3	18.0	54	1586	1953	1469	1491604	923077	1846153
3	1143022	3	13.0	56	1233	1939	1066	2639634	1846154	2769230
4	317782	2	10.0	58	1400	1569	0	2961654	2769231	3692307
5	1393206	3	20.0	91	1283	1008	1609	4357829	3692308	4615384
6	349945	3	14.0	74	1879	1274	1138	4711674	4615385	5538461

New3RandParmBin5

7	1089109	1	12.0	82	1357	0	0	5805074	5538462	6461538
8	759770	1	18.0	66	1250	0	0	6566201	6461539	7384615
9	1557369	3	14.0	53	1527	1896	1618	8124820	7384616	8307692
10	533821	1	9.0	100	1717	0	0	8663682	8307693	9230769
11	1259252	2	18.0	94	1703	1545	0	9924651	9230770	10153846
12	1114517	2	20.0	92	1445	1473	0	11042416	10153847	11076923
13	731119	3	18.0	97	1690	1464	1567	11776453	11076924	12000000

Total number of pulses in waveform = 29

♀

Waveform Num = 17

Num of Bursts = 14

Burst Interval (us) = 857143.0

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	184235	1	12.0	95	1311	0	0	184235	0	857142
2	1275884	3	7.0	99	1273	1740	1969	1461430	857143	1714285
3	1016463	2	5.0	56	1448	1587	0	2482875	1714286	2571428
4	577636	2	13.0	91	1151	1764	0	3063546	2571429	3428571
5	638914	1	14.0	70	1490	0	0	3705375	3428572	4285714
6	908674	3	12.0	73	1809	1014	1312	4615539	4285715	5142857
7	855841	1	16.0	66	1745	0	0	5475515	5142858	6000000
8	1088749	2	20.0	94	1038	1304	0	6566009	6000001	6857143
9	459215	3	8.0	82	1535	1549	1661	7027566	6857144	7714286
10	876564	2	9.0	71	1094	1342	0	7908875	7714287	8571429
11	1317584	1	13.0	70	1398	0	0	9228895	8571430	9428572
12	309141	3	13.0	54	1612	1410	1947	9539434	9428573	10285715
13	781785	3	18.0	68	1149	1069	1024	10326188	10285716	11142858

1498020
 14 1 20.0 81 1349 0 0 11827450 11142859 12000001
 Total number of pulses in waveform = 28

♀
 Waveform Num = 18
 Num of Bursts = 20
 Burst Interval (us) = 600000.0

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	260659	3	7.0	55	1781	1675	1674	260659	0	599999
2	360355	3	6.0	68	1127	1384	1841	626144	600000	1199999
3	1024707	2	19.0	72	1250	1325	0	1655203	1200000	1799999
4	540837	1	14.0	95	1503	0	0	2198615	1800000	2399999
5	368128	1	13.0	51	1182	0	0	2568246	2400000	2999999
6	671497	3	5.0	67	1926	1844	1418	3240925	3000000	3599999
7	727771	1	16.0	56	1081	0	0	3973884	3600000	4199999
8	542453	1	17.0	83	1354	0	0	4517418	4200000	4799999
9	853808	2	12.0	64	1818	1324	0	5372580	4800000	5399999
10	327665	1	5.0	77	1531	0	0	5703387	5400000	5999999
11	366507	2	5.0	85	1750	1912	0	6071425	6000000	6599999
12	659596	3	14.0	94	1425	1803	1277	6734683	6600000	7199999
13	815383	1	18.0	99	1129	0	0	7554571	7200000	7799999
14	709971	1	14.0	95	1739	0	0	8265671	7800000	8399999
15	235318	2	16.0	63	1075	1811	0	8502728	8400000	8999999
16	540980	2	13.0	51	1395	1923	0	9046594	9000000	9599999
17	1059236	1	8.0	96	1667	0	0	10109148	9600000	10199999
18	618434	1	5.0	89	1818	0	0	10729249	10200000	10799999
19	502782	1	15.0	84	1645	0	0	11233849	10800000	11399999

192969
 20 1 7.0 90 1778 0 0 11428463 11400000 11999999
 Total number of pulses in waveform = 33

♀
 Waveform Num = 19
 Num of Bursts = 18
 Burst Interval (us) = 666667.0

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	650706	1	9.0	64	1626	0	0	650706	0	666666
2	619465	3	16.0	52	1053	1417	1481	1271797	666667	1333333
3	451385	1	10.0	91	1731	0	0	1727133	1333334	2000000
4	434691	1	17.0	70	1105	0	0	2163555	2000001	2666667
5	1073439	1	20.0	71	1296	0	0	3238099	2666668	3333334
6	273718	2	11.0	76	1228	1393	0	3513113	3333335	4000001
7	612820	2	5.0	96	1678	1032	0	4128554	4000002	4666668
8	959916	1	7.0	59	1729	0	0	5091180	4666669	5333335
9	362663	3	16.0	95	1779	1515	1708	5455572	5333336	6000002
10	1116034	3	17.0	74	1068	1086	1066	6576608	6000003	6666669
11	262738	1	16.0	54	1554	0	0	6842566	6666670	7333336
12	948353	1	15.0	60	1865	0	0	7792473	7333337	8000003
13	538175	3	7.0	71	1552	1231	1301	8332513	8000004	8666670
14	557063	2	15.0	91	1890	1177	0	8893660	8666671	9333337
15	650385	1	10.0	96	1521	0	0	9547112	9333338	10000004
16	735484	2	10.0	97	1743	1947	0	10284117	10000005	10666671
17	1003914	2	8.0	63	1898	1469	0	11291721	10666672	11333338
18	276991	1	6.0	65	1106	0	0	11572079	11333339	12000005

Total number of pulses in waveform = 31
 ♀

New3RandParmBin5

Waveform Num = 20
 Num of Bursts = 20
 Burst Interval (us) = 600000.0

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	284119	2	8.0	61	1308	1419	0	284119	0	599999
2	686518	3	17.0	86	1112	1085	1937	973364	600000	1199999
3	248030	2	17.0	97	1169	1068	0	1225528	1200000	1799999
4	874399	2	6.0	85	1603	1937	0	2102164	1800000	2399999
5	863667	1	7.0	88	1982	0	0	2969371	2400000	2999999
6	577856	3	16.0	97	1061	1481	1534	3549209	3000000	3599999
7	456874	3	10.0	100	1691	1016	1643	4010159	3600000	4199999
8	185610	2	5.0	55	1264	1732	0	4200119	4200000	4799999
9	1088773	3	8.0	63	1593	1197	1847	5291888	4800000	5399999
10	516599	1	7.0	78	1543	0	0	5813124	5400000	5999999
11	395625	1	16.0	85	1912	0	0	6210292	6000000	6599999
12	870367	2	20.0	62	1488	1349	0	7082571	6600000	7199999
13	463957	3	17.0	86	1663	1655	1236	7549365	7200000	7799999
14	650535	3	7.0	85	1571	1370	1393	8204454	7800000	8399999
15	364289	1	16.0	76	1863	0	0	8573077	8400000	8999999
16	802730	2	16.0	73	1015	1099	0	9377670	9000000	9599999
17	585479	3	12.0	63	1835	1674	1507	9965263	9600000	10199999
18	568409	3	17.0	62	1605	1305	1755	10538688	10200000	10799999
19	403025	3	5.0	86	1975	1791	1205	10946378	10800000	11399999
20	1009744	3	15.0	81	1515	1993	1601	11961093	11400000	11999999

Total number of pulses in waveform = 46

♀

New3RandParmBin5

Waveform Num = 21
 Num of Bursts = 12
 Burst Interval (us) = 1000000.0

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	135980	2	5.0	69	1355	1418	0	135980	0	999999
2	1615271	1	19.0	99	1608	0	0	1754024	1000000	1999999
3	272710	3	13.0	78	1806	1400	1447	2028342	2000000	2999999
4	1900689	1	15.0	54	1687	0	0	3933684	3000000	3999999
5	980296	3	20.0	66	1143	1978	1267	4915667	4000000	4999999
6	1037060	2	9.0	97	1144	1239	0	5957115	5000000	5999999
7	411747	1	13.0	96	1034	0	0	6371245	6000000	6999999
8	1359790	1	10.0	89	1719	0	0	7732069	7000000	7999999
9	620626	2	16.0	77	1809	1005	0	8354414	8000000	8999999
10	864651	3	13.0	94	1269	1137	1054	9221879	9000000	9999999
11	905403	3	12.0	84	1482	1107	1325	10130742	10000000	10999999
12	1677499	2	5.0	54	1829	1485	0	11812155	11000000	11999999

Total number of pulses in waveform = 24

♀

Waveform Num = 22
 Num of Bursts = 11
 Burst Interval (us) = 1090909.0

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	186541	1	19.0	93	1301	0	0	186541	0	1090908
2	1578310	2	5.0	61	1723	1572	0	1766152	1090909	2181817
3	1462200	2	17.0	88	1276	1720	0	3231647	2181818	3272726
4	959085	1	15.0	51	1327	0	0	4193728	3272727	4363635
5	797879	2	13.0	79	1974	1764	0	4992934	4363636	5454544

New3RandParmBin5										
6	561678	1	15.0	71	1762	0	0	5558350	5454545	6545453
7	1699304	3	9.0	89	1983	1364	1659	7259416	6545454	7636362
8	478547	2	9.0	99	1007	1797	0	7742969	7636363	8727271
9	1702325	2	11.0	88	1961	1601	0	9448098	8727272	9818180
10	1398671	2	9.0	58	1512	1447	0	10850331	9818181	10909089
11	82644	2	7.0	59	1146	1094	0	10935934	10909090	11999998
Total number of pulses in waveform = 20										

‡
 Waveform Num = 23
 Num of Bursts = 12
 Burst Interval (us) = 1000000.0

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	466318	3	17.0	61	1878	1563	1368	466318	0	999999
2	1203742	1	17.0	100	1039	0	0	1674869	1000000	1999999
3	932247	1	14.0	82	1487	0	0	2608155	2000000	2999999
4	1103216	2	6.0	74	1383	1797	0	3712858	3000000	3999999
5	401231	2	5.0	88	1279	1821	0	4117269	4000000	4999999
6	1529133	3	7.0	63	1582	1216	1771	5649502	5000000	5999999
7	566884	1	20.0	87	1423	0	0	6220955	6000000	6999999
8	1071423	2	20.0	94	1142	1008	0	7293801	7000000	7999999
9	1027116	1	15.0	80	1415	0	0	8323067	8000000	8999999
10	1479519	2	9.0	58	1620	2000	0	9804001	9000000	9999999
11	396730	2	8.0	79	1063	1848	0	10204351	10000000	10999999
12	877905	2	13.0	81	1260	1504	0	11085167	11000000	11999999

‡
 Total number of pulses in waveform = 22
 Waveform Num = 24
 Num of Bursts = 10

New3RandParmBin5

Burst Interval (us) = 1200000.0

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	587415	1	17.0	90	1947	0	0	587415	0	1199999
2	1487133	3	6.0	74	1058	1953	1503	2076495	1200000	2399999
3	1492755	2	14.0	100	1344	1548	0	3573764	2400000	3599999
4	396321	1	6.0	72	1029	0	0	3972977	3600000	4799999
5	1367872	1	20.0	94	1353	0	0	5341878	4800000	5999999
6	1445798	1	16.0	88	1991	0	0	6789029	6000000	7199999
7	1214410	3	16.0	57	1029	1897	1930	8005430	7200000	8399999
8	1330424	2	12.0	55	1834	1086	0	9340710	8400000	9599999
9	903464	3	17.0	88	1467	1940	1289	10247094	9600000	10799999
10	549089	3	17.0	85	1122	1150	1238	10800879	10800000	11999999

Total number of pulses in waveform = 20

♀

Waveform Num = 25

Num of Bursts = 8

Burst Interval (us) = 1500000.0

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	898909	2	17.0	70	1967	1589	0	898909	0	1499999
2	1104933	2	16.0	52	1317	1784	0	2007398	1500000	2999999
3	1699973	2	16.0	67	1394	1391	0	3710472	3000000	4499999
4	1211430	3	18.0	72	1739	1835	1137	4924687	4500000	5999999
5	1082772	3	11.0	85	1806	1101	1550	6012170	6000000	7499999
6	2424336	2	7.0	52	1178	1202	0	8440963	7500000	8999999
7	1473515	3	9.0	83	1672	1144	1978	9916858	9000000	10499999
8	2018589	3	6.0	99	1525	1017	1982	11940241	10500000	11999999

New3RandParmBin5

Total number of pulses in waveform = 20

♀

Waveform Num = 26

Num of Bursts = 10

Burst Interval (us) = 1200000.0

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)
	1178062									
1	665424	1	8.0	92	1972	0	0	1178062	0	1199999
2	699944	1	12.0	65	1887	0	0	1845458	1200000	2399999
3	1275663	2	9.0	93	1600	1999	0	2547289	2400000	3599999
4	1892196	3	11.0	65	1693	1811	1539	3826551	3600000	4799999
5	522759	2	13.0	89	1507	1681	0	5723790	4800000	5999999
6	2042622	1	17.0	83	1721	0	0	6249737	6000000	7199999
7	307440	3	12.0	73	1105	1394	1070	8294080	7200000	8399999
8	2069887	2	9.0	53	1718	1899	0	8605089	8400000	9599999
9	1051330	2	14.0	80	1125	1441	0	10678593	9600000	10799999
10		3	14.0	85	1085	1208	1471	11732489	10800000	11999999

Total number of pulses in waveform = 20

♀

Waveform Num = 27

Num of Bursts = 12

Burst Interval (us) = 1000000.0

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)
	537426									
1	815259	3	19.0	51	1970	1306	1956	537426	0	999999
2	1192439	3	15.0	60	1036	1900	1792	1357917	1000000	1999999
3	954914	2	17.0	61	1270	1244	0	2555084	2000000	2999999
4	1081459	3	13.0	99	1723	1593	1594	3512512	3000000	3999999
5	396872	3	11.0	66	1435	1634	1411	4598881	4000000	4999999
6		2	20.0	64	1515	1190	0	5000233	5000000	5999999

New3RandParmBin5										
7	1856199	2	14.0	83	1332	1612	0	6859137	6000000	6999999
8	810160	1	19.0	95	1548	0	0	7672241	7000000	7999999
9	374438	1	6.0	52	1740	0	0	8048227	8000000	8999999
10	1691844	3	6.0	99	1626	1110	1849	9741811	9000000	9999999
11	365917	1	12.0	77	1847	0	0	10112313	10000000	10999999
12	1523148	3	16.0	80	1957	1657	1062	11637308	11000000	11999999
Total number of pulses in waveform = 27										

♀
Waveform Num = 28
Num of Bursts = 12
Burst Interval (us) = 1000000.0

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	527998	2	10.0	75	1007	1800	0	527998	0	999999
2	509099	1	12.0	65	1217	0	0	1039904	1000000	1999999
3	1527957	1	16.0	76	1223	0	0	2569078	2000000	2999999
4	1296549	2	5.0	75	1681	1643	0	3866850	3000000	3999999
5	754500	1	16.0	77	1674	0	0	4624674	4000000	4999999
6	509739	2	10.0	91	1414	1103	0	5136087	5000000	5999999
7	1765482	1	15.0	68	1788	0	0	6904086	6000000	6999999
8	476374	2	11.0	93	1529	1742	0	7382248	7000000	7999999
9	713092	1	19.0	65	1357	0	0	8098611	8000000	8999999
10	1167246	2	17.0	95	1002	1777	0	9267214	9000000	9999999
11	1208396	1	11.0	66	1212	0	0	10478389	10000000	10999999
12	1188779	3	13.0	72	1851	1153	1036	11668380	11000000	11999999
Total number of pulses in waveform = 19										

♀
Waveform Num = 29
Num of Bursts = 10

New3RandParmBin5

Burst Interval (us) = 1200000.0

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	254611	2	17.0	90	1194	1074	0	254611	0	1199999
2	1169643	1	16.0	82	1172	0	0	1426522	1200000	2399999
3	1646384	1	10.0	98	1980	0	0	3074078	2400000	3599999
4	1120716	3	5.0	99	1834	1219	1676	4196774	3600000	4799999
5	1048477	3	8.0	92	1265	1803	1753	5249980	4800000	5999999
6	1334019	2	19.0	89	1910	1261	0	6588820	6000000	7199999
7	1092566	1	16.0	60	1630	0	0	7684557	7200000	8399999
8	858550	3	18.0	56	1967	1790	1432	8544737	8400000	9599999
9	1281872	2	10.0	60	1398	1980	0	9831798	9600000	10799999
10	1115831	2	11.0	96	1429	1917	0	10951007	10800000	11999999

Total number of pulses in waveform = 20

♀
 Waveform Num = 30
 Num of Bursts = 20
 Burst Interval (us) = 600000.0

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	50209	3	15.0	68	1001	1504	1355	50209	0	599999
2	900391	3	13.0	70	1182	1660	1299	954460	600000	1199999
3	824929	3	14.0	77	1079	1658	1866	1783530	1200000	1799999
4	538405	3	13.0	73	1908	1750	1287	2326538	1800000	2399999
5	570126	3	14.0	88	1738	1175	1785	2901609	2400000	2999999
6	408613	3	19.0	70	1860	1413	1060	3314920	3000000	3599999
7	302212	2	5.0	58	1239	1548	0	3621465	3600000	4199999
8	1127828	2	13.0	73	1384	1340	0	4752080	4200000	4799999

New3RandParmBin5										
9	108340	1	7.0	70	1714	0	0	4863144	4800000	5399999
10	1065816	2	17.0	55	1938	1683	0	5930674	5400000	5999999
11	378206	3	16.0	54	1620	1545	1064	6312501	6000000	6599999
12	663958	2	7.0	91	1077	1141	0	6980688	6600000	7199999
13	480691	2	17.0	75	1860	1663	0	7463597	7200000	7799999
14	355699	1	7.0	80	1193	0	0	7822819	7800000	8399999
15	609230	1	12.0	88	1109	0	0	8433242	8400000	8999999
16	1013877	3	16.0	68	1040	1073	1321	9448228	9000000	9599999
17	712016	1	10.0	100	1400	0	0	10163678	9600000	10199999
18	576901	1	16.0	77	1123	0	0	10741979	10200000	10799999
19	625474	1	17.0	84	1181	0	0	11368576	10800000	11399999
20	237692	2	11.0	65	1735	1345	0	11607449	11400000	11999999

Total number of pulses in waveform = 42
♀

Random DFS waveform parameters (NewBin5) 22-Jun-2015 11:27:19

Waveform Num = 1
Num of Bursts = 12
Burst Interval (us) = 1000000.0

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	951519	1	19.0	50	1794	0	0	951519	0	999999
2	347305	2	12.0	87	1965	1803	0	1300618	1000000	1999999
3	899049	1	16.0	74	1432	0	0	2203435	2000000	2999999
4	973618	3	20.0	75	1534	1124	1603	3178485	3000000	3999999
5	909062	2	15.0	86	1846	1733	0	4091808	4000000	4999999
6	1322981	2	19.0	56	1939	1231	0	5418368	5000000	5999999
	1253671									

					New3RandParmBin5					
7	1149184	2	15.0	96	1574	1800	0	6675209	6000000	6999999
8	663504	1	9.0	63	1100	0	0	7827767	7000000	7999999
9	1028608	1	12.0	75	1265	0	0	8492371	8000000	8999999
10	479028	2	5.0	66	1531	1413	0	9522244	9000000	9999999
11	1553814	1	11.0	100	1127	0	0	10004216	10000000	10999999
12		1	9.0	99	1744	0	0	11559157	11000000	11999999

Total number of pulses in waveform = 19

♀

Waveform Num = 2

Num of Bursts = 11

Burst Interval (us) = 1090909.0

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	360766	1	17.0	83	1430	0	0	360766	0	1090908
2	1006582	3	13.0	91	1148	1104	1997	1368778	1090909	2181817
3	907973	1	6.0	86	1746	0	0	2281000	2181818	3272726
4	1077850	1	5.0	100	1156	0	0	3360596	3272727	4363635
5	1324516	1	18.0	96	1382	0	0	4686268	4363636	5454544
6	1117406	3	12.0	62	1901	1333	1851	5805056	5454545	6545453
7	1685903	2	16.0	63	1895	1910	0	7496044	6545454	7636362
8	435784	1	16.0	89	1334	0	0	7935633	7636363	8727271
9	1215099	1	16.0	79	1488	0	0	9152066	8727272	9818180
10	793318	3	6.0	81	1238	1567	1847	9946872	9818181	10909089
11	1617098	3	12.0	51	1551	1688	1418	11568622	10909090	11999998

Total number of pulses in waveform = 20

♀

Waveform Num = 3

Num of Bursts = 10

Burst Interval (us) = 1200000.0

Burst	Off Time	#	Chirp	PW	Pulse 1	Pulse 2	Pulse 3	Start Loc	Start Burst	End Burst
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#	(us)	Pulses	(MHz)	(us)	New3RandParmBin5			(us)	Interval(us)	Interval(us)
					Pri(us)	Pri(us)	Pri(us)			
1	1074303	2	9.0	88	1637	1331	0	1074303	0	1199999
2	533151	3	10.0	65	1781	1447	1660	1610422	1200000	2399999
3	1832499	1	19.0	69	1322	0	0	3447809	2400000	3599999
4	1315121	2	13.0	50	1937	1253	0	4764252	3600000	4799999
5	119161	1	20.0	79	1002	0	0	4886603	4800000	5999999
6	1873646	1	5.0	75	1026	0	0	6761251	6000000	7199999
7	1589907	3	20.0	75	1170	1646	1998	8352184	7200000	8399999
8	470051	2	17.0	89	1047	1350	0	8827049	8400000	9599999
9	960051	2	18.0	76	1833	1503	0	9789497	9600000	10799999
10	1128531	2	14.0	86	1984	1459	0	10921364	10800000	11999999

Total number of pulses in waveform = 19

♀

Waveform Num = 4

Num of Bursts = 16

Burst Interval (us) = 750000.0

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	4753	3	16.0	74	1098	1005	1965	4753	0	749999
2	944275	1	17.0	95	1216	0	0	953096	750000	1499999
3	707788	1	12.0	91	1481	0	0	1662100	1500000	2249999
4	1214255	3	10.0	85	1905	1117	1409	2877836	2250000	2999999
5	308285	1	9.0	64	1820	0	0	3190552	3000000	3749999
6	779423	2	10.0	77	1016	1122	0	3971795	3750000	4499999
7	626836	1	9.0	57	1532	0	0	4600769	4500000	5249999
8	767292	1	13.0	51	1822	0	0	5369593	5250000	5999999
9	706378	3	14.0	68	1221	1990	1397	6077793	6000000	6749999
	1249358									

					New3RandParmBin5					
10		3	7.0	71	1068	1867	1442	7331759	6750000	7499999
	732504									
11		1	6.0	80	1138	0	0	8068640	7500000	8249999
	301794									
12		3	7.0	66	1008	1180	1130	8371572	8250000	8999999
	1284497									
13		1	14.0	55	1878	0	0	9659387	9000000	9749999
	148090									
14		3	20.0	72	1304	1007	1820	9809355	9750000	10499999
	800844									
15		2	10.0	64	1739	1362	0	10614330	10500000	11249999
	757514									
16		3	11.0	99	1532	1488	1104	11374945	11250000	11999999

Total number of pulses in waveform = 32

♀
Waveform Num = 5
Num of Bursts = 8
Burst Interval (us) = 1500000.0

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	878491	1	20.0	80	1040	0	0	878491	0	1499999
2	882826	2	5.0	80	1220	1899	0	1762357	1500000	2999999
3	1602720	2	5.0	70	1812	1997	0	3368196	3000000	4499999
4	1228836	1	20.0	51	1749	0	0	4600841	4500000	5999999
5	2436814	2	18.0	81	1066	1591	0	7039404	6000000	7499999
6	641066	2	12.0	100	1172	1787	0	7683127	7500000	8999999
7	1667404	3	15.0	61	1947	1296	1425	9353490	9000000	10499999
8	1175370	3	7.0	51	1654	1138	1767	10533528	10500000	11999999

Total number of pulses in waveform = 16

♀
Waveform Num = 6
Num of Bursts = 8
Burst Interval (us) = 1500000.0

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	781968	2	15.0	75	1240	1834	0	781968	0	1499999
	949357									

					New3RandParmBin5					
2	1421183	1	7.0	66	1427	0	0	1734399	1500000	2999999
3	2694302	3	16.0	77	1481	1190	1477	3157009	3000000	4499999
4	1227416	2	16.0	57	1348	1752	0	5855459	4500000	5999999
5	1094735	2	16.0	74	1537	1753	0	7085975	6000000	7499999
6	1695151	1	19.0	79	1840	0	0	8184000	7500000	8999999
7	1757366	1	19.0	99	1466	0	0	9880991	9000000	10499999
8		1	8.0	89	1195	0	0	11639823	10500000	11999999

Total number of pulses in waveform = 13

♀

Waveform Num = 7

Num of Bursts = 15

Burst Interval (us) = 800000.0

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	254426	2	8.0	80	1101	1805	0	254426	0	799999
2	1198712	1	20.0	60	1234	0	0	1456044	800000	1599999
3	314399	2	12.0	89	1682	1509	0	1771677	1600000	2399999
4	1149365	3	17.0	73	1293	1156	1592	2924233	2400000	3199999
5	768973	1	6.0	51	1980	0	0	3697247	3200000	3999999
6	307219	1	11.0	75	1733	0	0	4006446	4000000	4799999
7	1474230	1	12.0	82	1225	0	0	5482409	4800000	5599999
8	530473	3	11.0	71	1636	1488	1496	6014107	5600000	6399999
9	579086	3	16.0	79	1363	1842	1313	6597813	6400000	7199999
10	675546	1	14.0	74	1436	0	0	7277877	7200000	7999999
11	1383255	1	5.0	98	1224	0	0	8662568	8000000	8799999
12	383003	3	6.0	93	1443	1019	1022	9046795	8800000	9599999
13	1184156	3	17.0	57	1390	1604	1501	10234435	9600000	10399999
	330136									

					New3RandParmBin5					
14		3	5.0	92	1772	1291	1446	10569066	10400000	11199999
	1399258									
15		1	10.0	85	1204	0	0	11972833	11200000	11999999

Total number of pulses in waveform = 29

♀

Waveform Num = 8

Num of Bursts = 12

Burst Interval (us) = 1000000.0

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	180660	2	14.0	94	1723	1316	0	180660	0	999999
	1351089									
2	832160	2	12.0	100	1067	1057	0	1534788	1000000	1999999
	833142									
3	833142	3	15.0	94	1553	1780	1879	2369072	2000000	2999999
	833142									
4	1495669	1	14.0	50	1875	0	0	3207426	3000000	3999999
	1495669									
5	631993	2	10.0	95	1433	1866	0	4704970	4000000	4999999
	631993									
6	1391835	3	14.0	91	1255	1287	1376	5340262	5000000	5999999
	1391835									
7	1253822	2	14.0	99	1953	1747	0	6736015	6000000	6999999
	1253822									
8	49045	3	5.0	82	1285	1852	1290	7993537	7000000	7999999
	49045									
9	1209750	2	10.0	90	1157	1292	0	8047009	8000000	8999999
	1209750									
10	837058	2	10.0	91	1718	1006	0	9259208	9000000	9999999
	837058									
11	1584705	2	6.0	56	1436	1832	0	10098990	10000000	10999999
	1584705									
12		2	17.0	94	1832	1132	0	11686963	11000000	11999999

Total number of pulses in waveform = 26

♀

Waveform Num = 9

Num of Bursts = 20

Burst Interval (us) = 600000.0

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	505868	2	14.0	83	1085	1917	0	505868	0	599999
	661769									
2	462324	2	20.0	83	1743	1186	0	1170639	600000	1199999

New3RandParmBin5										
3	443404	3	9.0	83	1559	1490	1185	1635892	1200000	1799999
4	562609	3	20.0	61	1642	1607	1930	2083530	1800000	2399999
5	621894	3	6.0	84	1300	1554	1076	2651318	2400000	2999999
6	702254	3	13.0	65	1772	1185	1952	3277142	3000000	3599999
7	555744	2	17.0	79	1709	1444	0	3984305	3600000	4199999
8	568156	2	10.0	78	1991	1130	0	4543202	4200000	4799999
9	839423	1	5.0	90	1671	0	0	5114479	4800000	5399999
10	151191	1	7.0	87	1044	0	0	5955573	5400000	5999999
11	643826	3	13.0	95	1005	1377	1423	6107808	6000000	6599999
12	526134	1	14.0	98	1220	0	0	6755439	6600000	7199999
13	939623	3	18.0	71	1627	1605	1497	7282793	7200000	7799999
14	244567	2	19.0	91	1230	1215	0	8227145	7800000	8399999
15	1109324	3	20.0	91	1205	1392	1177	8474157	8400000	8999999
16	178060	1	12.0	51	1718	0	0	9587255	9000000	9599999
17	439230	2	10.0	65	1324	1957	0	9767033	9600000	10199999
18	698384	1	18.0	70	1920	0	0	10209544	10200000	10799999
19	768260	2	11.0	53	1688	1481	0	10909848	10800000	11399999
20		1	5.0	77	1163	0	0	11681277	11400000	11999999

Total number of pulses in waveform = 41

♀
Waveform Num = 10
Num of Bursts = 15
Burst Interval (us) = 800000.0

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	59641	3	9.0	66	1620	1601	1908	59641	0	799999
2	1249792	3	13.0	84	1419	1759	1531	1314562	800000	1599999
	515019									

New3RandParmBin5										
3	798218	2	12.0	67	1687	1440	0	1834290	1600000	2399999
4	775423	2	9.0	62	1304	1357	0	2635635	2400000	3199999
5	1148495	3	16.0	87	1431	1603	1527	3413719	3200000	3999999
6	439537	2	15.0	97	1984	1197	0	4566775	4000000	4799999
7	839899	1	5.0	82	1312	0	0	5009493	4800000	5599999
8	768840	3	18.0	60	1147	1411	1543	5850704	5600000	6399999
9	920139	2	15.0	63	1869	1388	0	6623645	6400000	7199999
10	682753	1	20.0	77	1940	0	0	7547041	7200000	7999999
11	929179	2	5.0	69	1609	1613	0	8231734	8000000	8799999
12	978073	2	18.0	68	1122	1086	0	9164135	8800000	9599999
13	681997	3	17.0	92	1315	1035	1554	10144416	9600000	10399999
14	654999	1	13.0	82	1637	0	0	10830317	10400000	11199999
15		3	17.0	54	1525	1022	1352	11486953	11200000	11999999

Total number of pulses in waveform = 33

♀

Waveform Num = 11

Num of Bursts = 11

Burst Interval (us) = 1090909.0

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	890656	3	19.0	94	1291	1617	1800	890656	0	1090908
2	727608	1	8.0	79	1037	0	0	1622972	1090909	2181817
3	1254071	1	20.0	85	1428	0	0	2878080	2181818	3272726
4	788775	3	8.0	65	1300	1970	1873	3668283	3272727	4363635
5	1520479	3	7.0	67	1554	1404	1605	5193905	4363636	5454544
6	266641	2	19.0	87	1516	1151	0	5465109	5454545	6545453
7	1172110	1	14.0	88	1732	0	0	6639886	6545454	7636362
	1170877									

					New3RandParmBin5					
8	1623372	1	18.0	82	1917	0	0	7812495	7636363	8727271
9	1040967	3	11.0	90	1401	1652	1549	9437784	8727272	9818180
10	1131233	3	12.0	51	1699	1536	1921	10483353	9818181	10909089
11		1	12.0	89	1401	0	0	11619742	10909090	11999998

Total number of pulses in waveform = 22

♀
Waveform Num = 12
Num of Bursts = 9
Burst Interval (us) = 1333333.0

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	852972	2	20.0	67	1684	1042	0	852972	0	1333332
2	751788	2	15.0	87	1918	1420	0	1607486	1333333	2666665
3	1128065	1	7.0	95	1467	0	0	2738889	2666666	3999998
4	1394135	2	10.0	90	1817	1899	0	4134491	3999999	5333331
5	2240492	1	13.0	71	1608	0	0	6378699	5333332	6666664
6	545889	1	9.0	74	1601	0	0	6926196	6666665	7999997
7	1913604	2	10.0	90	1231	1894	0	8841401	7999998	9333330
8	908906	3	18.0	89	1567	1580	1194	9753432	9333331	10666663
9	2016011	3	16.0	95	1968	1494	1946	11773784	10666664	11999996

Total number of pulses in waveform = 17

♀
Waveform Num = 13
Num of Bursts = 8
Burst Interval (us) = 1500000.0

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	309234	1	10.0	93	1948	0	0	309234	0	1499999
2	2611764	2	6.0	66	1788	1788	0	2922946	1500000	2999999
3	877203	1	14.0	87	1831	0	0	3803725	3000000	4499999

New3RandParmBin5										
4		3	12.0	77	1825	1619	1524	4615869	4500000	5999999
	2819332									
5		1	19.0	83	1812	0	0	7440169	6000000	7499999
	603117									
6		1	18.0	99	1356	0	0	8045098	7500000	8999999
	1649814									
7		2	19.0	83	1339	1974	0	9696268	9000000	10499999
	1588718									
8		1	14.0	82	1876	0	0	11288299	10500000	11999999

Total number of pulses in waveform = 12

♀

Waveform Num = 14

Num of Bursts = 16

Burst Interval (us) = 750000.0

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	451835	1	8.0	85	1525	0	0	451835	0	749999
	475638									
2	645990	1	5.0	91	1635	0	0	928998	750000	1499999
	975754									
3	1026454	3	6.0	59	1757	1892	1906	1576623	1500000	2249999
	1026454									
4	187677	3	18.0	81	1392	1232	1119	2557932	2250000	2999999
	928255									
5	906085	2	19.0	80	1995	1781	0	3588129	3000000	3749999
	585600									
6	1074292	3	5.0	74	1249	1169	1341	3779582	3750000	4499999
	498068									
7	1114404	1	15.0	91	1171	0	0	4711596	4500000	5249999
	109266									
8	1010562	1	20.0	91	1831	0	0	5618852	5250000	5999999
	1109104									
9	688239	2	15.0	62	1312	1483	0	6206283	6000000	6749999
10		3	7.0	77	1819	1624	1295	7283370	6750000	7499999
11		3	15.0	51	1411	1037	1607	7786176	7500000	8249999
12		3	20.0	89	1310	1589	1087	8904635	8250000	8999999
13		1	18.0	94	1896	0	0	9017887	9000000	9749999
14		2	6.0	92	1497	1671	0	10030345	9750000	10499999
15		2	16.0	91	1755	1989	0	11142617	10500000	11249999

16 2 6.0 52 New3RandParmBin5 11834600 11250000 11999999
 Total number of pulses in waveform = 33 1820 1242 0

♀
 Waveform Num = 15
 Num of Bursts = 16
 Burst Interval (us) = 750000.0

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	343486	3	20.0	67	1326	1079	1903	343486	0	749999
2	970639	1	6.0	60	1221	0	0	1318433	750000	1499999
3	755770	3	12.0	50	1730	1141	1911	2075424	1500000	2249999
4	601726	2	19.0	52	1152	1058	0	2681932	2250000	2999999
5	572083	3	5.0	52	1378	1470	1419	3256225	3000000	3749999
6	1137824	1	18.0	59	1761	0	0	4398316	3750000	4499999
7	408289	1	10.0	57	1074	0	0	4808366	4500000	5249999
8	734661	3	6.0	92	1714	1615	1251	5544101	5250000	5999999
9	609587	1	9.0	69	1336	0	0	6158268	6000000	6749999
10	761148	2	19.0	58	1165	1445	0	6920752	6750000	7499999
11	765383	3	6.0	75	1846	1754	1875	7688745	7500000	8249999
12	657780	2	17.0	98	1453	1810	0	8352000	8250000	8999999
13	1150710	2	5.0	74	1673	1836	0	9505973	9000000	9749999
14	572533	1	14.0	51	1624	0	0	10082015	9750000	10499999
15	970755	3	19.0	82	1573	1911	1135	11054394	10500000	11249999
16	436936	1	18.0	100	1134	0	0	11495949	11250000	11999999

Total number of pulses in waveform = 32
 ♀
 Waveform Num = 16
 Num of Bursts = 12
 Burst Interval (us) = 1000000.0

Burst	Off Time	#	Chirp	PW	Pulse 1	Pulse 2	Pulse 3	Start Loc	Start Burst	End Burst
-------	----------	---	-------	----	---------	---------	---------	-----------	-------------	-----------

#	(us)	Pulses	(MHz)	(us)	New3RandParmBin5			(us)	Interval(us)	Interval(us)
					Pri(us)	Pri(us)	Pri(us)			
1	884185	2	8.0	63	1340	1084	0	884185	0	999999
2	582396	2	12.0	95	1172	1768	0	1469005	1000000	1999999
3	1296257	3	16.0	73	1939	1465	1553	2768202	2000000	2999999
4	1213204	1	19.0	91	1917	0	0	3986363	3000000	3999999
5	234244	1	7.0	83	1134	0	0	4222524	4000000	4999999
6	786368	3	10.0	52	1130	1607	1611	5010026	5000000	5999999
7	1326374	1	12.0	88	1625	0	0	6340748	6000000	6999999
8	913512	2	20.0	84	1217	1929	0	7255885	7000000	7999999
9	1136191	2	8.0	83	1549	1136	0	8395222	8000000	8999999
10	902676	2	18.0	99	1588	1779	0	9300583	9000000	9999999
11	702064	1	20.0	91	1994	0	0	10006014	10000000	10999999
12	1699997	3	18.0	52	1248	1185	1921	11708005	11000000	11999999

Total number of pulses in waveform = 23

♀

Waveform Num = 17

Num of Bursts = 15

Burst Interval (us) = 800000.0

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	749454	3	16.0	83	1606	1307	1894	749454	0	799999
2	152644	3	16.0	55	1846	1362	1225	906905	800000	1599999
3	724265	2	8.0	71	1807	1738	0	1635603	1600000	2399999
4	1148185	1	5.0	81	1472	0	0	2787333	2400000	3199999
5	904618	3	10.0	63	1728	1160	1052	3693423	3200000	3999999
6	753443	2	7.0	93	1274	1494	0	4450806	4000000	4799999
7	758276	3	8.0	75	1960	1579	1411	5211850	4800000	5599999
	977033									

					New3RandParmBin5					
8	444484	2	16.0	56	1457	1685	0	6193833	5600000	6399999
9	763049	2	6.0	65	1320	1475	0	6641459	6400000	7199999
10	1065351	2	6.0	82	1096	1842	0	7407303	7200000	7999999
11	332371	2	17.0	65	1154	1829	0	8475592	8000000	8799999
12	860731	3	20.0	60	1841	1114	1104	8810946	8800000	9599999
13	1337468	2	20.0	96	1752	1327	0	9675736	9600000	10399999
14	645730	2	14.0	63	1836	1418	0	11016283	10400000	11199999
15		3	11.0	62	1099	1242	1614	11665267	11200000	11999999

Total number of pulses in waveform = 35

♀
Waveform Num = 18
Num of Bursts = 19
Burst Interval (us) = 631579.0

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	146457	3	8.0	58	1135	1991	1126	146457	0	631578
2	947756	2	18.0	69	1994	1482	0	1098465	631579	1263157
3	676695	3	9.0	95	1759	1924	1435	1778636	1263158	1894736
4	211780	2	7.0	87	1217	1863	0	1995534	1894737	2526315
5	666607	3	8.0	92	1853	1011	1717	2665221	2526316	3157894
6	708136	3	11.0	80	1825	1358	1246	3377938	3157895	3789473
7	915538	3	9.0	52	1113	1482	1995	4297905	3789474	4421052
8	734806	1	12.0	70	1965	0	0	5037301	4421053	5052631
9	18341	3	14.0	77	1334	1568	1940	5057607	5052632	5684210
10	626271	1	11.0	52	1278	0	0	5688720	5684211	6315789
11	1038147	2	13.0	63	1611	1446	0	6728145	6315790	6947368
12	606308	2	13.0	85	1173	1198	0	7337510	6947369	7578947
	421170									

					New3RandParmBin5					
13		3	20.0	92	1046	1572	1681	7761051	7578948	8210526
	498695									
14		1	6.0	59	1080	0	0	8264045	8210527	8842105
	981306									
15		3	12.0	77	1818	1099	1301	9246431	8842106	9473684
	742265									
16		2	12.0	61	1427	1368	0	9992914	9473685	10105263
	631955									
17		1	12.0	78	1315	0	0	10627664	10105264	10736842
	264686									
18		2	7.0	76	1955	1444	0	10893665	10736843	11368421
	584497									
19		1	5.0	58	1005	0	0	11481561	11368422	12000000

Total number of pulses in waveform = 41

♀

Waveform Num = 19

Num of Bursts = 15

Burst Interval (us) = 800000.0

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)
	228400									
1	590796	1	7.0	75	1808	0	0	228400	0	799999
2	946201	2	7.0	77	1762	1265	0	821004	800000	1599999
3	1109508	1	8.0	79	1649	0	0	1770232	1600000	2399999
4	469822	1	6.0	74	1293	0	0	2881389	2400000	3199999
5	1356407	2	13.0	62	1153	1647	0	3352504	3200000	3999999
6	366798	1	7.0	100	1327	0	0	4711711	4000000	4799999
7	1130993	2	17.0	69	1266	1974	0	5079836	4800000	5599999
8	559675	3	5.0	70	1659	1171	1895	6214069	5600000	6399999
9	504835	1	6.0	100	1961	0	0	6778469	6400000	7199999
10	892635	3	20.0	99	1598	1023	1476	7285265	7200000	7999999
11	1314621	2	7.0	81	1309	1076	0	8181997	8000000	8799999
12	138792	1	19.0	87	1007	0	0	9499003	8800000	9599999
13	1137139	1	15.0	77	1841	0	0	9638802	9600000	10399999

					New3RandParmBin5					
14	652343	1	15.0	54	1024	0	0	10777782	10400000	11199999
15		1	17.0	65	1547	0	0	11431149	11200000	11999999

Total number of pulses in waveform = 23

♀

Waveform Num = 20

Num of Bursts = 16

Burst Interval (us) = 750000.0

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	334848	2	20.0	76	1953	1728	0	334848	0	749999
2	977323	1	11.0	71	1285	0	0	1315852	750000	1499999
3	865556	2	14.0	53	1646	1536	0	2182693	1500000	2249999
4	198321	3	6.0	63	1619	1468	1819	2384196	2250000	2999999
5	1191749	2	13.0	54	1250	1042	0	3580851	3000000	3749999
6	762711	2	10.0	89	1228	1492	0	4345854	3750000	4499999
7	804591	3	7.0	66	1874	1592	1050	5153165	4500000	5249999
8	313952	3	13.0	53	1077	1634	1425	5471633	5250000	5999999
9	706432	1	11.0	73	1907	0	0	6182201	6000000	6749999
10	608502	3	5.0	84	1565	1121	1275	6792610	6750000	7499999
11	1103803	2	16.0	57	1687	1291	0	7900374	7500000	8249999
12	790242	3	7.0	55	1245	1245	1539	8693594	8250000	8999999
13	514619	1	20.0	72	1123	0	0	9212242	9000000	9749999
14	866756	1	5.0	81	1101	0	0	10080121	9750000	10499999
15	659349	2	17.0	76	1577	1875	0	10740571	10500000	11249999
16	631696	1	11.0	96	1638	0	0	11375719	11250000	11999999

Total number of pulses in waveform = 32

♀

Waveform Num = 21

Num of Bursts = 11

Burst Interval (us) = 1090909.0

New3RandParmBin5

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	184834	1	9.0	89	1921	0	0	184834	0	1090908
2	1920845	1	11.0	56	1511	0	0	2107600	1090909	2181817
3	267669	1	12.0	79	1259	0	0	2376780	2181818	3272726
4	1049955	1	14.0	73	1619	0	0	3427994	3272727	4363635
5	1969313	1	16.0	93	1526	0	0	5398926	4363636	5454544
6	639358	1	13.0	62	1204	0	0	6039810	5454545	6545453
7	1421493	3	5.0	90	1132	1925	1187	7462507	6545454	7636362
8	610042	1	16.0	70	1525	0	0	8076793	7636363	8727271
9	763435	2	12.0	100	1268	1365	0	8841753	8727272	9818180
10	1400948	2	12.0	87	1588	1972	0	10245334	9818181	10909089
11	913144	2	8.0	51	1330	1365	0	11162038	10909090	11999998

Total number of pulses in waveform = 16

♀

Waveform Num = 22

Num of Bursts = 14

Burst Interval (us) = 857143.0

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	397433	3	19.0	82	1771	1561	1901	397433	0	857142
2	1265417	3	19.0	97	1860	1622	1309	1668083	857143	1714285
3	180194	2	10.0	86	1200	1796	0	1853068	1714286	2571428
4	1047830	2	13.0	89	1280	1141	0	2903894	2571429	3428571
5	1148058	1	10.0	61	1500	0	0	4054373	3428572	4285714
6	909212	1	11.0	70	1940	0	0	4965085	4285715	5142857
7	221718	2	14.0	57	1911	1855	0	5188743	5142858	6000000
	1243805									

					New3RandParmBin5					
8	1140417	3	9.0	63	1774	1874	1129	6436314	6000001	6857143
9	405861	1	13.0	93	1127	0	0	7581508	6857144	7714286
10	1057901	1	7.0	95	1778	0	0	7988496	7714287	8571429
11	941440	3	8.0	57	1395	1285	1334	9048175	8571430	9428572
12	829002	1	13.0	78	1384	0	0	9993629	9428573	10285715
13	514224	1	9.0	93	1247	0	0	10824015	10285716	11142858
14		2	20.0	70	1479	1787	0	11339486	11142859	12000001

Total number of pulses in waveform = 26

♀

Waveform Num = 23

Num of Bursts = 16

Burst Interval (us) = 750000.0

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	40926	2	10.0	55	1272	1516	0	40926	0	749999
2	881512	2	17.0	81	1166	1044	0	925226	750000	1499999
3	1234367	2	8.0	55	1089	1181	0	2161803	1500000	2249999
4	789482	2	6.0	78	1457	1661	0	2953555	2250000	2999999
5	231704	2	15.0	66	1985	1573	0	3188377	3000000	3749999
6	1069990	2	18.0	90	1621	1560	0	4261925	3750000	4499999
7	486324	2	17.0	58	1851	1799	0	4751430	4500000	5249999
8	789367	3	9.0	51	1165	1985	1403	5544447	5250000	5999999
9	849635	1	12.0	74	1735	0	0	6398635	6000000	6749999
10	1065408	2	19.0	95	1190	1098	0	7465778	6750000	7499999
11	315620	3	10.0	62	1862	1870	1673	7783686	7500000	8249999
12	1209165	1	9.0	66	1567	0	0	8998256	8250000	8999999
13	381415	2	13.0	79	1492	1805	0	9381238	9000000	9749999
	423384									

					New3RandParmBin5					
14		1	10.0	72	1035	0	0	9807919	9750000	10499999
	1403050									
15		1	10.0	96	1148	0	0	11212004	10500000	11249999
	487589									
16		1	8.0	67	1677	0	0	11700741	11250000	11999999

Total number of pulses in waveform = 29

♀
Waveform Num = 24
Num of Bursts = 20
Burst Interval (us) = 600000.0

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)
	233116									
1	753597	3	14.0	52	1009	1339	1202	233116	0	599999
2	693333	1	18.0	62	1647	0	0	990263	600000	1199999
3	114040	3	15.0	50	1855	1411	1869	1685243	1200000	1799999
4	1122729	3	12.0	54	1748	1349	1848	1804418	1800000	2399999
5	535033	2	17.0	70	1684	1681	0	2932092	2400000	2999999
6	600139	1	18.0	86	1491	0	0	3470490	3000000	3599999
7	553648	1	18.0	71	1903	0	0	4072120	3600000	4199999
8	488431	3	12.0	72	1279	1915	1084	4627671	4200000	4799999
9	620693	2	7.0	81	1688	1875	0	5120380	4800000	5399999
10	642922	3	16.0	81	1015	1847	1536	5744636	5400000	5999999
11	294142	3	13.0	84	1709	1239	1984	6391956	6000000	6599999
12	942082	1	20.0	76	1865	0	0	6691030	6600000	7199999
13	660559	2	11.0	81	1686	1584	0	7634977	7200000	7799999
14	102354	1	11.0	81	1847	0	0	8298806	7800000	8399999
15	1121558	1	14.0	69	1774	0	0	8403007	8400000	8999999
16	661046	3	6.0	65	1461	1043	1177	9526339	9000000	9599999
17	104733	2	8.0	79	1787	1347	0	10191066	9600000	10199999

					New3RandParmBin5					
18		2	18.0	75	1117	1743	0	10298933	10200000	10799999
	544555									
19		2	8.0	52	1518	1701	0	10846348	10800000	11399999
	812494									
20		3	14.0	92	1018	1288	1641	11662061	11400000	11999999

Total number of pulses in waveform = 42

♀
Waveform Num = 25
Num of Bursts = 9
Burst Interval (us) = 1333333.0

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)
	805207									
1	910114	1	8.0	75	1163	0	0	805207	0	1333332
2	1080586	2	9.0	79	1641	1348	0	1716484	1333333	2666665
3	1774886	1	6.0	94	1072	0	0	2800059	2666666	3999998
4	2080278	1	16.0	59	1690	0	0	4576017	3999999	5333331
5	71063	3	12.0	100	1164	1420	1784	6657985	5333332	6666664
6	1310645	1	10.0	53	1102	0	0	6733416	6666665	7999997
7	1940793	1	20.0	79	1621	0	0	8045163	7999998	9333330
8	1834280	3	16.0	63	1277	1969	1922	9987577	9333331	10666663
9		1	17.0	96	1231	0	0	11827025	10666664	11999996

Total number of pulses in waveform = 14

♀
Waveform Num = 26
Num of Bursts = 15
Burst Interval (us) = 800000.0

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)
	601715									
1	226510	2	5.0	64	1165	1541	0	601715	0	799999
2	1194477	1	17.0	94	1719	0	0	830931	800000	1599999
3	717411	1	16.0	51	1532	0	0	2027127	1600000	2399999
4	499488	1	11.0	59	1929	0	0	2746070	2400000	3199999

New3RandParmBin5										
5	1086695	3	9.0	91	1495	1425	1906	3247487	3200000	3999999
6	745421	1	6.0	77	1238	0	0	4339008	4000000	4799999
7	993578	3	14.0	91	1537	1148	1607	5085667	4800000	5599999
8	779749	1	12.0	73	1855	0	0	6083537	5600000	6399999
9	776061	3	19.0	96	1576	1999	1038	6865141	6400000	7199999
10	601196	2	19.0	63	1779	1761	0	7645815	7200000	7999999
11	731681	2	11.0	50	1187	1062	0	8250551	8000000	8799999
12	1182387	2	7.0	50	1310	1293	0	8984481	8800000	9599999
13	819258	3	11.0	63	1490	1336	1809	10169471	9600000	10399999
14	226887	1	7.0	72	1682	0	0	10993364	10400000	11199999
15		1	12.0	84	1513	0	0	11221933	11200000	11999999

Total number of pulses in waveform = 27

♀

Waveform Num = 27

Num of Bursts = 19

Burst Interval (us) = 631579.0

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	440091	2	8.0	90	1755	1262	0	440091	0	631578
2	293565	3	20.0	77	1552	1603	1191	736673	631579	1263157
3	768046	2	11.0	82	1140	1955	0	1509065	1263158	1894736
4	596610	2	20.0	79	1158	1474	0	2108770	1894737	2526315
5	960219	3	14.0	59	1099	1544	1682	3071621	2526316	3157894
6	411049	3	17.0	59	1515	1803	1122	3486995	3157895	3789473
7	316970	2	11.0	77	1880	1562	0	3808405	3789474	4421052
8	732281	2	16.0	63	1926	1938	0	4544128	4421053	5052631
9	569808	2	13.0	81	1972	1660	0	5117800	5052632	5684210
	901367									

					New3RandParmBin5					
10	798425	3	14.0	79	1050	1843	1229	6022799	5684211	6315789
11	128039	2	10.0	97	1456	1453	0	6825346	6315790	6947368
12	1139712	2	12.0	92	1678	1938	0	6956294	6947369	7578947
13	652884	3	10.0	65	1869	1315	1956	8099622	7578948	8210526
14	91835	2	5.0	78	1411	1852	0	8757646	8210527	8842105
15	845817	1	9.0	70	1007	0	0	8852744	8842106	9473684
16	1022733	2	17.0	71	1441	1867	0	9699568	9473685	10105263
17	636122	1	6.0	69	1625	0	0	10725609	10105264	10736842
18	571214	2	12.0	86	1868	1500	0	11363356	10736843	11368421
19		1	13.0	97	1465	0	0	11937938	11368422	12000000

Total number of pulses in waveform = 40

♀

Waveform Num = 28

Num of Bursts = 17

Burst Interval (us) = 705882.0

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	647689	1	5.0	86	1522	0	0	647689	0	705881
2	719699	2	18.0	61	1580	1196	0	1368910	705882	1411763
3	113886	3	15.0	61	1576	1993	1113	1485572	1411764	2117645
4	1323956	1	9.0	51	1646	0	0	2814210	2117646	2823527
5	410567	1	11.0	64	1112	0	0	3226423	2823528	3529409
6	604984	1	16.0	76	1809	0	0	3832519	3529410	4235291
7	971861	1	20.0	65	1049	0	0	4806189	4235292	4941173
8	764880	2	18.0	82	1679	1691	0	5572118	4941174	5647055
9	519405	2	18.0	63	1250	1089	0	6094893	5647056	6352937
10	776032	2	17.0	98	1673	1267	0	6873264	6352938	7058819
	242614									

					New3RandParmBin5					
11	803233	3	5.0	86	1953	1997	1102	7118818	7058820	7764701
12	1140786	3	16.0	62	1392	1798	1026	7927103	7764702	8470583
13	219501	2	17.0	54	1623	1818	0	9072105	8470584	9176465
14	1093249	3	19.0	78	1160	1480	1790	9295047	9176466	9882347
15	687613	2	5.0	54	1614	1656	0	10392726	9882348	10588229
16	608026	3	7.0	66	1216	1854	1264	11083609	10588230	11294111
17		3	7.0	55	1303	1241	1781	11695969	11294112	11999993

Total number of pulses in waveform = 35

♀
Waveform Num = 29
Num of Bursts = 13
Burst Interval (us) = 923077.0

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	762570	2	20.0	68	1278	1033	0	762570	0	923076
2	218991	1	10.0	61	1130	0	0	983872	923077	1846153
3	1167406	3	20.0	85	1027	1362	1708	2152408	1846154	2769230
4	1143813	1	10.0	83	1010	0	0	3300318	2769231	3692307
5	974012	2	5.0	79	1740	1692	0	4275340	3692308	4615384
6	866345	1	19.0	74	1868	0	0	5145117	4615385	5538461
7	522595	1	6.0	81	1939	0	0	5669580	5538462	6461538
8	1039097	3	8.0	55	1713	1843	1438	6710616	6461539	7384615
9	857932	3	8.0	91	1326	1555	1955	7573542	7384616	8307692
10	860459	2	15.0	59	1389	1438	0	8438837	8307693	9230769
11	1709896	1	7.0	53	1621	0	0	10151560	9230770	10153846
12	746530	2	10.0	58	1029	1130	0	10899711	10153847	11076923
13	1056602	2	14.0	78	1420	1558	0	11958472	11076924	12000000

Total number of pulses in waveform = 24

New3RandParmBin5

♀
 Waveform Num = 30
 Num of Bursts = 8
 Burst Interval (us) = 1500000.0

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	1356223	1	12.0	93	1579	0	0	1356223	0	1499999
2	752597	1	9.0	70	1123	0	0	2110399	1500000	2999999
3	2327072	3	19.0	82	1594	1407	1389	4438594	3000000	4499999
4	929453	1	6.0	84	1863	0	0	5372437	4500000	5999999
5	1146553	3	17.0	56	1942	1483	1643	6520853	6000000	7499999
6	2335372	2	11.0	80	1501	1387	0	8861293	7500000	8999999
7	1503582	3	17.0	99	1370	1216	1938	10367763	9000000	10499999
8	196628	3	5.0	87	1227	1014	1507	10568915	10500000	11999999

Total number of pulses in waveform = 17

♀
 Random DFS waveform parameters (NewBin5) 22-Jun-2015 11:41:13

Waveform Num = 1
 Num of Bursts = 12
 Burst Interval (us) = 1000000.0

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	947738	1	17.0	59	1491	0	0	947738	0	999999
2	118784	1	9.0	50	1663	0	0	1068013	1000000	1999999
3	1154804	3	9.0	100	1716	1082	1582	2224480	2000000	2999999
4	1513761	3	8.0	67	1926	1212	1511	3742621	3000000	3999999
5	1203075	3	16.0	82	1234	1366	1836	4950345	4000000	4999999
6	995470	3	6.0	81	1826	1816	1903	5950251	5000000	5999999
7	776860	2	20.0	77	1749	1101	0	6732656	6000000	6999999

New3RandParmBin5										
8	1170432	1	15.0	59	1220	0	0	7905938	7000000	7999999
9	829987	1	17.0	82	1110	0	0	8737145	8000000	8999999
10	318713	2	11.0	71	1882	1346	0	9056968	9000000	9999999
11	1434544	3	19.0	61	1829	1217	1476	10494740	10000000	10999999
12	908654	2	16.0	98	1732	1666	0	11407916	11000000	11999999

Total number of pulses in waveform = 25

♀

Waveform Num = 2
 Num of Bursts = 12
 Burst Interval (us) = 1000000.0

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	967197	3	5.0	54	1609	1590	1508	967197	0	999999
2	1023284	2	6.0	95	1320	2000	0	1995188	1000000	1999999
3	367729	1	17.0	73	1009	0	0	2366237	2000000	2999999
4	1121199	2	19.0	64	1941	1793	0	3488445	3000000	3999999
5	1117449	3	14.0	65	1415	1815	1256	4609628	4000000	4999999
6	703032	3	16.0	73	1901	1430	1279	5317146	5000000	5999999
7	1466330	2	16.0	98	1968	1358	0	6788086	6000000	6999999
8	831034	2	6.0	91	1673	1384	0	7622446	7000000	7999999
9	1318974	2	19.0	52	1925	1661	0	8944477	8000000	8999999
10	139931	1	9.0	51	1182	0	0	9087994	9000000	9999999
11	1303482	1	10.0	56	1578	0	0	10392658	10000000	10999999
12	686841	1	5.0	60	1094	0	0	11081077	11000000	11999999

Total number of pulses in waveform = 23

♀

Waveform Num = 3
 Num of Bursts = 20
 Burst Interval (us) = 600000.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	New3RandParmBin5			Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
					Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)			
1	547775	1	9.0	72	1912	0	0	547775	0	599999
2	129302	1	13.0	81	1860	0	0	678989	600000	1199999
3	598993	1	19.0	78	1274	0	0	1279842	1200000	1799999
4	957662	3	11.0	52	1754	1332	1347	2238778	1800000	2399999
5	400892	1	17.0	98	1240	0	0	2644103	2400000	2999999
6	646900	3	6.0	89	1704	1942	1543	3292243	3000000	3599999
7	630711	1	14.0	69	1017	0	0	3928143	3600000	4199999
8	745108	2	15.0	75	1218	1128	0	4674268	4200000	4799999
9	515357	2	13.0	63	1465	1787	0	5191971	4800000	5399999
10	469135	2	12.0	82	1645	1095	0	5664358	5400000	5999999
11	353996	2	7.0	80	1120	1805	0	6021094	6000000	6599999
12	1089923	3	9.0	70	1959	1303	1658	7113942	6600000	7199999
13	597636	1	19.0	65	1607	0	0	7716498	7200000	7799999
14	114468	3	16.0	72	1329	1698	1737	7832573	7800000	8399999
15	990044	3	12.0	100	1588	1033	1376	8827381	8400000	8999999
16	482448	2	10.0	64	1958	1453	0	9313826	9000000	9599999
17	307639	1	17.0	81	1287	0	0	9624876	9600000	10199999
18	622771	1	20.0	84	1813	0	0	10248934	10200000	10799999
19	1083578	1	16.0	64	1730	0	0	11334325	10800000	11399999
20	282550	1	10.0	65	1659	0	0	11618605	11400000	11999999

Total number of pulses in waveform = 35

♀

Waveform Num = 4

Num of Bursts = 19

Burst Interval (us) = 631579.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	New3RandParmBin5			Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
					Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)			
1	512566	2	15.0	75	1664	1653	0	512566	0	631578
2	626126	3	12.0	82	1391	1340	1696	1142009	631579	1263157
3	692392	3	13.0	100	1923	1166	1448	1838828	1263158	1894736
4	502801	2	10.0	90	1427	1617	0	2346166	1894737	2526315
5	215077	2	7.0	83	1537	1423	0	2564287	2526316	3157894
6	1032592	1	18.0	70	1271	0	0	3599839	3157895	3789473
7	526884	2	14.0	71	1009	1442	0	4127994	3789474	4421052
8	619782	3	5.0	57	1811	1147	1156	4750227	4421053	5052631
9	435970	3	10.0	65	1998	1510	1583	5190311	5052632	5684210
10	843890	3	18.0	100	1937	1194	1091	6039292	5684211	6315789
11	684068	1	20.0	58	1986	0	0	6727582	6315790	6947368
12	395713	1	7.0	89	1402	0	0	7125281	6947369	7578947
13	567526	3	19.0	89	1150	1681	1138	7694209	7578948	8210526
14	517849	2	18.0	82	1650	1515	0	8216027	8210527	8842105
15	660577	1	10.0	52	1563	0	0	8879769	8842106	9473684
16	1063800	2	8.0	82	1636	1995	0	9945132	9473685	10105263
17	266087	1	13.0	51	1155	0	0	10214850	10105264	10736842
18	994034	1	11.0	69	1988	0	0	11210039	10736843	11368421
19	352799	1	18.0	66	1845	0	0	11564826	11368422	12000000

Total number of pulses in waveform = 37

♀

Waveform Num = 5

Num of Bursts = 9

Burst Interval (us) = 1333333.0

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)
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New3RandParmBin5

1	853976	1	18.0	61	1700	0	0	853976	0	1333332
2	872998	1	13.0	50	1739	0	0	1728674	1333333	2666665
3	1275947	2	13.0	87	1935	1107	0	3006360	2666666	3999998
4	1463116	2	16.0	68	1159	1777	0	4472518	3999999	5333331
5	1361702	3	14.0	78	1512	1731	1123	5837156	5333332	6666664
6	1605732	3	20.0	93	1920	1460	1810	7447254	6666665	7999997
7	1208549	1	14.0	79	1489	0	0	8660993	7999998	9333330
8	1998858	2	20.0	75	1846	1675	0	10661340	9333331	10666663
9	1136909	1	13.0	55	1311	0	0	11801770	10666664	11999996

Total number of pulses in waveform = 16

♀

Waveform Num = 6

Num of Bursts = 16

Burst Interval (us) = 750000.0

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	255143	3	10.0	50	1043	1108	1570	255143	0	749999
2	893328	3	11.0	80	1874	1591	1742	1152192	750000	1499999
3	919682	2	11.0	76	1832	1805	0	2077081	1500000	2249999
4	289720	2	19.0	99	1563	1222	0	2370438	2250000	2999999
5	1352250	1	17.0	55	1792	0	0	3725473	3000000	3749999
6	605109	2	15.0	59	1236	1345	0	4332374	3750000	4499999
7	677749	3	9.0	58	1119	1679	1084	5012704	4500000	5249999
8	283661	1	13.0	79	1298	0	0	5300247	5250000	5999999
9	1009426	2	18.0	77	1598	1593	0	6310971	6000000	6749999
10	1078291	3	10.0	61	1207	1630	1739	7392453	6750000	7499999
11	411048	3	9.0	71	1467	1135	1716	7808077	7500000	8249999

New3RandParmBin5

12	561448	1	8.0	91	1151	0	0	8373843	8250000	8999999
13	790211	1	9.0	75	1719	0	0	9165205	9000000	9749999
14	1087648	3	18.0	84	1333	1237	1041	10254572	9750000	10499999
15	977897	1	10.0	95	1060	0	0	11236080	10500000	11249999
16	21449	2	6.0	89	1937	1500	0	11258589	11250000	11999999

Total number of pulses in waveform = 33

♀

Waveform Num = 7

Num of Bursts = 20

Burst Interval (us) = 600000.0

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	158855	3	8.0	88	1566	1781	1527	158855	0	599999
2	1028786	2	15.0	70	1272	1365	0	1192515	600000	1199999
3	392992	1	17.0	90	1185	0	0	1588144	1200000	1799999
4	660513	1	12.0	65	1262	0	0	2249842	1800000	2399999
5	297114	3	14.0	61	1013	1799	1712	2548218	2400000	2999999
6	906307	2	20.0	83	1677	1418	0	3459049	3000000	3599999
7	645142	1	20.0	87	1094	0	0	4107286	3600000	4199999
8	530886	2	19.0	91	1904	1254	0	4639266	4200000	4799999
9	362081	1	7.0	59	1765	0	0	5004505	4800000	5399999
10	725638	2	10.0	66	1705	1783	0	5731908	5400000	5999999
11	659518	2	15.0	67	1647	1170	0	6394914	6000000	6599999
12	292151	3	20.0	59	1196	1232	1921	6689882	6600000	7199999
13	918362	3	14.0	86	1927	1849	1870	7612593	7200000	7799999
14	314322	3	17.0	95	1716	1487	1133	7932561	7800000	8399999
15	784480	2	8.0	85	1636	1748	0	8721377	8400000	8999999

New3RandParmBin5

16	726968	3	8.0	67	1146	1603	1287	9451729	9000000	9599999
17	396863	2	13.0	85	1939	1692	0	9852628	9600000	10199999
18	919348	1	20.0	100	1232	0	0	10775607	10200000	10799999
19	383138	1	5.0	66	1177	0	0	11159977	10800000	11399999
20	779251	2	17.0	82	1696	1648	0	11940405	11400000	11999999

Total number of pulses in waveform = 40

♀

Waveform Num = 8

Num of Bursts = 10

Burst Interval (us) = 1200000.0

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	397943	1	5.0	58	1429	0	0	397943	0	1199999
2	1494768	3	14.0	60	1812	1300	1949	1894140	1200000	2399999
3	952662	3	19.0	64	1149	1440	1993	2851863	2400000	3599999
4	1428468	2	11.0	90	1596	1505	0	4284913	3600000	4799999
5	1609135	2	8.0	81	1153	1302	0	5897149	4800000	5999999
6	1059110	2	16.0	56	1494	1666	0	6958714	6000000	7199999
7	1176358	1	14.0	62	1325	0	0	8138232	7200000	8399999
8	853076	2	5.0	52	1992	1604	0	8992633	8400000	9599999
9	1294950	2	20.0	86	1465	1389	0	10291179	9600000	10799999
10	1504112	2	17.0	79	1997	1916	0	11798145	10800000	11999999

Total number of pulses in waveform = 20

♀

Waveform Num = 9

Num of Bursts = 14

Burst Interval (us) = 857143.0

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	29251	1	20.0	94	1091	0	0	29251	0	857142

New3RandParmBin5

2	1319996	2	12.0	84	1061	1824	0	1350338	857143	1714285
3	677353	1	12.0	99	1949	0	0	2030576	1714286	2571428
4	916513	1	13.0	87	1161	0	0	2949038	2571429	3428571
5	635538	3	8.0	62	1739	1762	1201	3585737	3428572	4285714
6	1109197	2	5.0	91	1108	1531	0	4699636	4285715	5142857
7	1215052	2	7.0	54	1667	1188	0	5917327	5142858	6000000
8	208523	3	6.0	69	1614	1029	1372	6128705	6000001	6857143
9	1503144	3	11.0	82	1597	1186	1091	7635864	6857144	7714286
10	184318	1	14.0	84	1559	0	0	7824056	7714287	8571429
11	1015245	2	18.0	74	1965	1111	0	8840860	8571430	9428572
12	1035580	3	11.0	96	1921	1050	1377	9879516	9428573	10285715
13	1142678	2	6.0	94	1675	1910	0	11026542	10285716	11142858
14	640532	1	15.0	50	1733	0	0	11670659	11142859	12000001

Total number of pulses in waveform = 27

♀

Waveform Num = 10

Num of Bursts = 17

Burst Interval (us) = 705882.0

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	28727	3	16.0	88	1940	1487	1581	28727	0	705881
2	1092838	3	12.0	73	1550	1093	1982	1126573	705882	1411763
3	470792	1	10.0	60	1877	0	0	1601990	1411764	2117645
4	666204	2	13.0	68	1533	1048	0	2270071	2117646	2823527
5	556137	1	5.0	75	1216	0	0	2828789	2823528	3529409
6	1356640	2	17.0	79	1260	1404	0	4186645	3529410	4235291
7	51140	2	7.0	90	1480	1934	0	4240449	4235292	4941173

New3RandParmBin5

8	1075916	1	20.0	99	1954	0	0	5319779	4941174	5647055
9	486488	1	12.0	62	1572	0	0	5808221	5647056	6352937
10	1201345	2	16.0	97	1325	1673	0	7011138	6352938	7058819
11	356312	3	11.0	51	1558	1221	1962	7370448	7058820	7764701
12	665743	2	12.0	95	1798	1365	0	8040932	7764702	8470583
13	497523	3	5.0	72	1001	1168	1009	8541618	8470584	9176465
14	1274528	1	10.0	84	1948	0	0	9819324	9176466	9882347
15	186648	1	13.0	63	1710	0	0	10007920	9882348	10588229
16	1095048	1	13.0	96	1014	0	0	11104678	10588230	11294111
17	344358	1	7.0	64	1071	0	0	11450050	11294112	11999993

Total number of pulses in waveform = 30

♀

Waveform Num = 11

Num of Bursts = 20

Burst Interval (us) = 600000.0

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	1950	1	19.0	83	1259	0	0	1950	0	599999
2	943978	3	5.0	92	1670	1417	1126	947187	600000	1199999
3	815121	2	11.0	71	1237	1695	0	1766521	1200000	1799999
4	186711	2	13.0	100	1206	1999	0	1956164	1800000	2399999
5	467771	3	10.0	78	1105	1766	1862	2427140	2400000	2999999
6	637213	2	6.0	59	1019	1972	0	3069086	3000000	3599999
7	926249	1	19.0	68	1496	0	0	3998326	3600000	4199999
8	776819	3	7.0	64	1655	1092	1098	4776641	4200000	4799999
9	493176	1	11.0	95	1066	0	0	5273662	4800000	5399999
10	650395	3	12.0	66	1838	1245	1923	5925123	5400000	5999999

New3RandParmBin5

11	99290	1	16.0	85	1536	0	0	6029419	6000000	6599999
12	580120	1	15.0	79	1989	0	0	6611075	6600000	7199999
13	1085729	3	20.0	52	1340	1828	1542	7698793	7200000	7799999
14	383369	2	15.0	50	1073	1806	0	8086872	7800000	8399999
15	811573	1	14.0	66	1370	0	0	8901324	8400000	8999999
16	619416	1	14.0	98	1612	0	0	9522110	9000000	9599999
17	526556	3	12.0	56	1910	1894	1279	10050278	9600000	10199999
18	213278	2	14.0	83	1460	1434	0	10268639	10200000	10799999
19	735489	1	6.0	55	1919	0	0	11007022	10800000	11399999
20	541537	3	8.0	63	1375	1419	1860	11550478	11400000	11999999

Total number of pulses in waveform = 39

♀

Waveform Num = 12

Num of Bursts = 13

Burst Interval (us) = 923077.0

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	834318	1	8.0	57	1224	0	0	834318	0	923076
2	377114	2	15.0	83	1753	1075	0	1212656	923077	1846153
3	824909	1	5.0	59	1862	0	0	2040393	1846154	2769230
4	802517	3	19.0	67	1814	1265	1980	2844772	2769231	3692307
5	1684237	2	12.0	100	1274	1883	0	4534068	3692308	4615384
6	139145	3	8.0	84	1071	1501	1392	4676370	4615385	5538461
7	1709698	2	18.0	64	1776	1303	0	6390032	5538462	6461538
8	910876	1	7.0	60	1889	0	0	7303987	6461539	7384615
9	553856	2	12.0	73	1964	1486	0	7859732	7384616	8307692
10	864424	1	9.0	97	1278	0	0	8727606	8307693	9230769

New3RandParmBin5

11	527557	3	19.0	100	1036	1998	1126	9256441	9230770	10153846
12	1190147	1	15.0	65	1386	0	0	10450748	10153847	11076923
13	1088156	2	12.0	99	1784	1898	0	11540290	11076924	12000000

Total number of pulses in waveform = 24

♀
Waveform Num = 13
Num of Bursts = 20
Burst Interval (us) = 600000.0

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	582934	2	6.0	79	1005	1118	0	582934	0	599999
2	522832	2	19.0	86	1492	1186	0	1107889	600000	1199999
3	255899	3	19.0	95	1672	1745	1379	1366466	1200000	1799999
4	839733	2	20.0	91	1214	1059	0	2210995	1800000	2399999
5	665552	1	6.0	90	1295	0	0	2878820	2400000	2999999
6	523039	1	8.0	77	1039	0	0	3403154	3000000	3599999
7	561140	1	11.0	53	1862	0	0	3965333	3600000	4199999
8	696325	2	5.0	88	1520	1926	0	4663520	4200000	4799999
9	660502	2	11.0	67	1529	1908	0	5327468	4800000	5399999
10	118596	2	20.0	50	1107	1666	0	5449501	5400000	5999999
11	799192	1	11.0	70	1371	0	0	6251466	6000000	6599999
12	804401	2	8.0	62	1429	1766	0	7057238	6600000	7199999
13	591651	3	16.0	77	1765	1148	1054	7652084	7200000	7799999
14	466890	1	14.0	65	1233	0	0	8122941	7800000	8399999
15	474575	3	9.0	85	1758	1029	1625	8598749	8400000	8999999
16	894466	3	9.0	60	1028	1789	1368	9497627	9000000	9599999
17	670722	1	7.0	70	1894	0	0	10172534	9600000	10199999

New3RandParmBin5

18	571596	2	12.0	73	1976	1542	0	10746024	10200000	10799999
19	533231	2	7.0	83	1083	1633	0	11282773	10800000	11399999
20	605662	3	17.0	83	1050	1314	1652	11891151	11400000	11999999

Total number of pulses in waveform = 39

♀

Waveform Num = 14

Num of Bursts = 19

Burst Interval (us) = 631579.0

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	68254	1	8.0	82	1289	0	0	68254	0	631578
2	1040242	3	11.0	75	1183	1391	1532	1109785	631579	1263157
3	520959	3	20.0	84	1937	1052	1245	1634850	1263158	1894736
4	780815	3	12.0	91	1814	1398	1635	2419899	1894737	2526315
5	206377	1	12.0	78	1418	0	0	2631123	2526316	3157894
6	637942	3	12.0	61	1402	1112	1948	3270483	3157895	3789473
7	1050441	2	15.0	68	1536	1350	0	4325386	3789474	4421052
8	133338	1	9.0	90	1625	0	0	4461610	4421053	5052631
9	664377	2	6.0	88	1267	1886	0	5127612	5052632	5684210
10	570390	3	14.0	66	1777	1149	1669	5701155	5684211	6315789
11	1092037	3	6.0	59	1738	1355	1801	6797787	6315790	6947368
12	410092	2	7.0	89	1349	1316	0	7212773	6947369	7578947
13	714384	2	16.0	67	1905	1171	0	7929822	7578948	8210526
14	297916	3	11.0	53	1185	1757	1075	8230814	8210527	8842105
15	1202961	3	14.0	87	1024	1251	1264	9437792	8842106	9473684
16	413786	1	9.0	68	1176	0	0	9855117	9473685	10105263
17	851777	2	8.0	82	1196	1978	0	10708070	10105264	10736842

New3RandParmBin5

18	217250	2	7.0	93	1148	1075	0	10928494	10736843	11368421
19	963506	2	8.0	84	1412	1495	0	11894223	11368422	12000000

Total number of pulses in waveform = 42

♀

Waveform Num = 15

Num of Bursts = 14

Burst Interval (us) = 857143.0

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	16812	3	11.0	69	1767	1091	1211	16812	0	857142
2	1155605	1	5.0	56	1107	0	0	1176486	857143	1714285
3	579708	2	20.0	76	1711	1475	0	1757301	1714286	2571428
4	1152138	3	17.0	63	1005	1261	1923	2912625	2571429	3428571
5	1023123	3	9.0	90	1215	1721	1061	3939937	3428572	4285714
6	538253	1	13.0	72	1504	0	0	4482187	4285715	5142857
7	966219	2	5.0	56	1341	1528	0	5449910	5142858	6000000
8	1241250	1	6.0	51	1741	0	0	6694029	6000001	6857143
9	511212	1	12.0	55	1796	0	0	7206982	6857144	7714286
10	636389	2	11.0	79	1442	1520	0	7845167	7714287	8571429
11	1273985	2	8.0	84	1174	1485	0	9122114	8571430	9428572
12	448294	2	9.0	65	1676	1945	0	9573067	9428573	10285715
13	861148	2	7.0	72	1909	1155	0	10437836	10285716	11142858
14	951900	2	18.0	55	1243	1155	0	11392800	11142859	12000001

Total number of pulses in waveform = 27

♀

Waveform Num = 16

Num of Bursts = 20

Burst Interval (us) = 600000.0

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)
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New3RandParmBin5										
1	138088	1	6.0	62	1023	0	0	138088	0	599999
2	978974	1	8.0	66	1537	0	0	1118085	600000	1199999
3	407223	3	10.0	91	1837	1882	1542	1526845	1200000	1799999
4	583592	2	16.0	75	1487	1493	0	2115698	1800000	2399999
5	710023	1	10.0	84	1632	0	0	2828701	2400000	2999999
6	280469	3	10.0	92	1108	1079	1078	3110802	3000000	3599999
7	533952	1	9.0	100	1634	0	0	3648019	3600000	4199999
8	1085599	3	20.0	55	1168	1438	1221	4735252	4200000	4799999
9	490869	1	7.0	56	1460	0	0	5229948	4800000	5399999
10	178551	1	19.0	65	1413	0	0	5409959	5400000	5999999
11	602021	2	15.0	91	1061	1990	0	6013393	6000000	6599999
12	864901	1	10.0	55	1333	0	0	6881345	6600000	7199999
13	844277	1	7.0	88	1388	0	0	7726955	7200000	7799999
14	547961	1	20.0	58	1244	0	0	8276304	7800000	8399999
15	293686	2	6.0	94	1850	1274	0	8571234	8400000	8999999
16	543864	3	8.0	83	1224	1209	1556	9118222	9000000	9599999
17	675827	2	20.0	69	1123	1077	0	9798038	9600000	10199999
18	868823	1	9.0	73	1245	0	0	10669061	10200000	10799999
19	453187	3	15.0	88	1882	1043	1354	11123493	10800000	11399999
20	465200	3	20.0	97	1077	1524	1560	11592972	11400000	11999999
Total number of pulses in waveform = 36										
♀										
Waveform Num = 17										
Num of Bursts = 13										
Burst Interval (us) = 923077.0										
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)

New3RandParmBin5

1	373404	3	10.0	99	1068	1968	1805	373404	0	923076
2	1282035	3	10.0	62	1033	1931	1519	1660280	923077	1846153
3	439627	3	7.0	90	1444	1955	1527	2104390	1846154	2769230
4	1143259	2	14.0	83	1144	1678	0	3252575	2769231	3692307
5	1261977	1	9.0	83	1842	0	0	4517374	3692308	4615384
6	731720	1	5.0	72	1593	0	0	5250936	4615385	5538461
7	1025895	2	5.0	78	1826	1771	0	6278424	5538462	6461538
8	973559	3	19.0	57	1694	1337	1331	7255580	6461539	7384615
9	285096	1	12.0	54	1015	0	0	7545038	7384616	8307692
10	1393096	1	11.0	64	1916	0	0	8939149	8307693	9230769
11	1024389	1	7.0	100	1946	0	0	9965454	9230770	10153846
12	697574	1	16.0	89	1527	0	0	10664974	10153847	11076923
13	516223	3	18.0	53	1329	1236	1295	11182724	11076924	12000000

Total number of pulses in waveform = 25

♀

Waveform Num = 18

Num of Bursts = 20

Burst Interval (us) = 600000.0

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	444904	1	16.0	95	1461	0	0	444904	0	599999
2	365470	3	13.0	69	1316	1126	1901	811835	600000	1199999
3	432385	3	7.0	98	1614	1763	1027	1248563	1200000	1799999
4	575498	1	10.0	52	1533	0	0	1828465	1800000	2399999
5	1080695	1	6.0	78	1525	0	0	2910693	2400000	2999999
6	103228	2	13.0	82	1625	1436	0	3015446	3000000	3599999
7	891773	3	5.0	58	1466	1205	1610	3910280	3600000	4199999

New3RandParmBin5										
8	682078	3	10.0	99	1172	1994	1350	4596639	4200000	4799999
9	252357	2	11.0	97	1638	1001	0	4853512	4800000	5399999
10	1141956	1	9.0	75	1726	0	0	5998107	5400000	5999999
11	583375	3	14.0	98	1732	1303	1614	6583208	6000000	6599999
12	199659	2	11.0	96	1217	1949	0	6787516	6600000	7199999
13	488827	1	12.0	50	1532	0	0	7279509	7200000	7799999
14	1024362	1	8.0	64	1632	0	0	8305403	7800000	8399999
15	290093	3	17.0	92	1916	1356	1005	8597128	8400000	8999999
16	920435	1	14.0	81	1559	0	0	9521840	9000000	9599999
17	614313	1	6.0	73	1714	0	0	10137712	9600000	10199999
18	421110	2	6.0	54	1184	1531	0	10560536	10200000	10799999
19	319907	3	15.0	73	1671	1799	1687	10883158	10800000	11399999
20	1037631	1	19.0	58	1431	0	0	11925946	11400000	11999999

Total number of pulses in waveform = 38

♀

Waveform Num = 19

Num of Bursts = 19

Burst Interval (us) = 631579.0

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	571858	2	16.0	87	1894	1507	0	571858	0	631578
2	406932	3	13.0	63	1493	1673	1517	982191	631579	1263157
3	319035	1	5.0	85	1309	0	0	1305909	1263158	1894736
4	1070884	3	15.0	53	1957	1739	1666	2378102	1894737	2526315
5	330781	1	8.0	58	1904	0	0	2714245	2526316	3157894
6	1041867	1	14.0	71	1034	0	0	3758016	3157895	3789473
7	505844	2	12.0	89	1490	1173	0	4264894	3789474	4421052

New3RandParmBin5										
8	256410	1	6.0	99	1175	0	0	4523967	4421053	5052631
9	947830	1	7.0	78	1090	0	0	5472972	5052632	5684210
10	711933	2	10.0	51	1672	1699	0	6185995	5684211	6315789
11	247442	1	6.0	100	1448	0	0	6436808	6315790	6947368
12	927055	3	9.0	66	1856	1644	1048	7365311	6947369	7578947
13	257286	1	14.0	77	1228	0	0	7627145	7578948	8210526
14	594220	1	14.0	62	1817	0	0	8222593	8210527	8842105
15	656048	2	16.0	54	1698	1974	0	8880458	8842106	9473684
16	613287	1	16.0	74	1044	0	0	9497417	9473685	10105263
17	617679	3	12.0	50	1475	1621	1239	10116140	10105264	10736842
18	982600	2	18.0	53	1796	1707	0	11103075	10736843	11368421
19	622830	1	12.0	75	1923	0	0	11729408	11368422	12000000

Total number of pulses in waveform = 32

♀
Waveform Num = 20
Num of Bursts = 19
Burst Interval (us) = 631579.0

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	585492	2	16.0	54	1972	1094	0	585492	0	631578
2	606404	1	7.0	99	1735	0	0	1194962	631579	1263157
3	315140	2	16.0	98	1052	1317	0	1511837	1263158	1894736
4	513312	2	7.0	94	1571	1273	0	2027518	1894737	2526315
5	1083165	1	15.0	66	1209	0	0	3113527	2526316	3157894
6	196655	1	9.0	66	1706	0	0	3311391	3157895	3789473
7	855274	1	18.0	63	1368	0	0	4168371	3789474	4421052
8	807214	3	17.0	74	1285	1565	1442	4976953	4421053	5052631

New3RandParmBin5

9	506904	3	12.0	83	1062	1503	1869	5488149	5052632	5684210
	473655									
10		1	8.0	52	1010	0	0	5966238	5684211	6315789
	974082									
11		3	15.0	66	1925	1747	1464	6941330	6315790	6947368
	370884									
12		1	20.0	58	1807	0	0	7317350	6947369	7578947
	809503									
13		3	14.0	83	1902	1126	1721	8128660	7578948	8210526
	364991									
14		3	18.0	58	1313	1545	1777	8498400	8210527	8842105
	921404									
15		1	10.0	64	1441	0	0	9424439	8842106	9473684
	201498									
16		1	15.0	92	1232	0	0	9627378	9473685	10105263
	820784									
17		3	13.0	64	1368	1659	1775	10449394	10105264	10736842
	586558									
18		3	17.0	53	1422	1467	1483	11040754	10736843	11368421
	677408									
19		3	20.0	64	1126	1458	1750	11722534	11368422	12000000

Total number of pulses in waveform = 38

♀

Waveform Num = 21

Num of Bursts = 12

Burst Interval (us) = 1000000.0

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)
	559819									
1		1	17.0	88	1486	0	0	559819	0	999999
	1025879									
2		1	20.0	79	1018	0	0	1587184	1000000	1999999
	934871									
3		1	20.0	56	1838	0	0	2523073	2000000	2999999
	688411									
4		3	9.0	81	1124	1907	1415	3213322	3000000	3999999
	1559746									
5		3	8.0	77	1172	1469	1522	4777514	4000000	4999999
	406074									
6		3	13.0	65	1363	1569	1198	5187751	5000000	5999999
	1464730									
7		3	6.0	86	1734	1679	1150	6656611	6000000	6999999
	1024785									
8		2	15.0	84	1301	1661	0	7685959	7000000	7999999
	879560									
9		1	11.0	59	1994	0	0	8568481	8000000	8999999

New3RandParmBin5

10	1019765	3	8.0	87	1574	1099	1583	9590240	9000000	9999999
11	871620	1	7.0	59	1526	0	0	10466116	10000000	10999999
12	706747	1	12.0	68	1055	0	0	11174389	11000000	11999999

Total number of pulses in waveform = 23

♀

Waveform Num = 22

Num of Bursts = 20

Burst Interval (us) = 600000.0

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	205496	1	13.0	73	1777	0	0	205496	0	599999
2	975529	2	7.0	91	1508	1095	0	1182802	600000	1199999
3	172446	2	15.0	90	1534	1833	0	1357851	1200000	1799999
4	1022536	3	18.0	88	1151	1854	1864	2383754	1800000	2399999
5	217801	2	12.0	99	1248	1560	0	2606424	2400000	2999999
6	665319	2	17.0	74	1558	1102	0	3274551	3000000	3599999
7	783421	2	17.0	75	1838	1124	0	4060632	3600000	4199999
8	728439	3	7.0	99	1706	1143	1163	4792033	4200000	4799999
9	563855	2	19.0	58	1847	1707	0	5359900	4800000	5399999
10	518953	2	8.0	69	1843	1894	0	5882407	5400000	5999999
11	383779	3	12.0	92	1095	1093	1919	6269923	6000000	6599999
12	825910	2	17.0	99	1433	1465	0	7099940	6600000	7199999
13	447002	2	8.0	62	1425	1777	0	7549840	7200000	7799999
14	705736	1	16.0	53	1080	0	0	8258778	7800000	8399999
15	634463	3	12.0	60	1410	1669	1849	8894321	8400000	8999999
16	171463	3	19.0	95	1487	1490	1410	9070712	9000000	9599999
17	991530	2	20.0	96	1643	1420	0	10066629	9600000	10199999

New3RandParmBin5

18	344172	1	17.0	74	1341	0	0	10413864	10200000	10799999
19	848364	1	5.0	89	1342	0	0	11263569	10800000	11399999
20	450670	3	15.0	72	1407	1475	1358	11715581	11400000	11999999

Total number of pulses in waveform = 42

♀

Waveform Num = 23

Num of Bursts = 19

Burst Interval (us) = 631579.0

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	283030	3	20.0	56	1685	1249	1916	283030	0	631578
2	440675	3	20.0	58	1570	1285	1311	728555	631579	1263157
3	989679	1	13.0	62	1271	0	0	1722400	1263158	1894736
4	679529	3	10.0	86	1277	1837	1846	2403200	1894737	2526315
5	462682	2	5.0	89	1453	1128	0	2870842	2526316	3157894
6	596290	3	12.0	86	1595	1502	1855	3469713	3157895	3789473
7	380338	2	12.0	54	1461	1926	0	3855003	3789474	4421052
8	1026300	3	16.0	82	1916	1383	1343	4884690	4421053	5052631
9	779969	3	18.0	75	1959	1514	1355	5669301	5052632	5684210
10	188168	1	10.0	76	1964	0	0	5862297	5684211	6315789
11	665105	3	9.0	95	1256	1961	1594	6529366	6315790	6947368
12	801297	2	18.0	56	1806	1993	0	7335474	6947369	7578947
13	382191	3	16.0	63	1137	1380	1761	7721464	7578948	8210526
14	754206	2	6.0	89	1182	1769	0	8479948	8210527	8842105
15	752972	3	15.0	81	1967	1475	1353	9235871	8842106	9473684
16	235274	3	14.0	70	1992	1443	1117	9475940	9473685	10105263
17	873877	1	20.0	85	1243	0	0	10354369	10105264	10736842

New3RandParmBin5

18	747969	2	18.0	85	1369	1496	0	11103581	10736843	11368421
19	427775	1	19.0	62	1436	0	0	11534221	11368422	12000000

Total number of pulses in waveform = 44

♀

Waveform Num = 24

Num of Bursts = 14

Burst Interval (us) = 857143.0

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	565397	3	11.0	75	1718	1280	1625	565397	0	857142
2	719749	1	6.0	68	1250	0	0	1289769	857143	1714285
3	710112	3	7.0	52	1730	1635	1955	2001131	1714286	2571428
4	1041673	1	8.0	87	1397	0	0	3048124	2571429	3428571
5	631932	2	18.0	69	1076	1142	0	3681453	3428572	4285714
6	806546	3	15.0	95	1215	1674	1989	4490217	4285715	5142857
7	737830	3	9.0	66	1095	1419	1881	5232925	5142858	6000000
8	963888	1	13.0	80	1626	0	0	6201208	6000001	6857143
9	1398296	1	17.0	96	1413	0	0	7601130	6857144	7714286
10	151374	3	15.0	92	1172	1234	1677	7753917	7714287	8571429
11	1181924	1	5.0	89	1767	0	0	8939924	8571430	9428572
12	929255	2	20.0	74	1438	1090	0	9870946	9428573	10285715
13	905235	2	10.0	83	1455	1583	0	10778709	10285716	11142858
14	465715	3	15.0	84	1625	1492	1204	11247462	11142859	12000001

Total number of pulses in waveform = 29

♀

Waveform Num = 25

Num of Bursts = 8

Burst Interval (us) = 1500000.0

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)
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New3RandParmBin5										
1	105926	3	9.0	69	1847	1218	1956	105926	0	1499999
2	2792237	1	11.0	90	1947	0	0	2903184	1500000	2999999
3	664691	3	5.0	59	1204	1776	1438	3569822	3000000	4499999
4	2087963	2	14.0	56	1052	1575	0	5662203	4500000	5999999
5	998888	3	5.0	70	1656	1995	1741	6663718	6000000	7499999
6	841708	1	6.0	79	1229	0	0	7510818	7500000	8999999
7	2726294	1	5.0	88	1995	0	0	10238341	9000000	10499999
8	1283120	3	13.0	95	1840	1350	1433	11523456	10500000	11999999

Total number of pulses in waveform = 17

♀

Waveform Num = 26

Num of Bursts = 10

Burst Interval (us) = 1200000.0

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	219212	1	16.0	77	2000	0	0	219212	0	1199999
2	1054808	1	6.0	93	1744	0	0	1276020	1200000	2399999
3	2100511	2	9.0	55	1732	1347	0	3378275	2400000	3599999
4	345887	3	10.0	70	1304	1460	1208	3727241	3600000	4799999
5	1493066	1	15.0	56	1133	0	0	5224279	4800000	5999999
6	879973	2	13.0	100	1237	1311	0	6105385	6000000	7199999
7	1790037	1	8.0	98	1352	0	0	7897970	7200000	8399999
8	1523440	2	18.0	73	1085	1809	0	9422762	8400000	9599999
9	1172715	2	16.0	98	1719	1480	0	10598371	9600000	10799999
10	1264934	2	16.0	57	1600	1913	0	11866504	10800000	11999999

Total number of pulses in waveform = 17

♀

Waveform Num = 27

Num of Bursts = 8

New3RandParmBin5

Burst Interval (us) = 1500000.0

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	722786	3	20.0	69	1070	1588	1813	722786	0	1499999
2	1042477	2	20.0	54	1927	1936	0	1769734	1500000	2999999
3	2081042	3	13.0	58	1855	1125	1195	3854639	3000000	4499999
4	997178	1	12.0	71	1160	0	0	4855992	4500000	5999999
5	1299095	3	14.0	91	1700	1568	1104	6156247	6000000	7499999
6	2017192	2	20.0	91	1846	1183	0	8177811	7500000	8999999
7	953187	3	10.0	78	1204	1905	1560	9134027	9000000	10499999
8	2443366	2	10.0	84	1836	1092	0	11582062	10500000	11999999

Total number of pulses in waveform = 19

♀

Waveform Num = 28

Num of Bursts = 11

Burst Interval (us) = 1090909.0

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	312979	1	11.0	63	1563	0	0	312979	0	1090908
2	1700640	2	9.0	68	1741	1247	0	2015182	1090909	2181817
3	1031042	1	14.0	78	1836	0	0	3049212	2181818	3272726
4	1197054	1	19.0	95	1199	0	0	4248102	3272727	4363635
5	931347	2	7.0	67	1309	1307	0	5180648	4363636	5454544
6	1099017	3	16.0	90	1092	1559	1195	6282281	5454545	6545453
7	1066920	3	10.0	63	1408	1787	1094	7353047	6545454	7636362
8	857910	3	10.0	90	1423	1967	1576	8215246	7636363	8727271
9	1130465	2	9.0	69	1554	1574	0	9350677	8727272	9818180
10	883239	2	5.0	97	1973	1931	0	10237044	9818181	10909089

New3RandParmBin5

11 1464643 3 12.0 87 1308 1108 1390 11705591 10909090 11999998
 Total number of pulses in waveform = 23

♀
 Waveform Num = 29
 Num of Bursts = 10
 Burst Interval (us) = 1200000.0

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	495133	3	10.0	61	1819	1199	1528	495133	0	1199999
2	1335587	3	16.0	98	1976	1766	1003	1835266	1200000	2399999
3	857719	1	7.0	65	1871	0	0	2697730	2400000	3599999
4	1539690	2	12.0	90	1818	1809	0	4239291	3600000	4799999
5	1599983	1	5.0	56	1065	0	0	5842901	4800000	5999999
6	875091	1	13.0	91	1641	0	0	6719057	6000000	7199999
7	889492	3	18.0	53	1325	1155	1451	7610190	7200000	8399999
8	792419	1	7.0	55	1454	0	0	8406540	8400000	9599999
9	2057924	1	15.0	66	1666	0	0	10465918	9600000	10799999
10	1365034	1	9.0	80	1086	0	0	11832618	10800000	11999999

♀
 Total number of pulses in waveform = 17
 Waveform Num = 30
 Num of Bursts = 10
 Burst Interval (us) = 1200000.0

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	217932	1	11.0	67	1572	0	0	217932	0	1199999
2	1094493	3	9.0	50	1522	1883	1067	1313997	1200000	2399999
3	1099820	1	10.0	51	1855	0	0	2418289	2400000	3599999
4	1938576	2	15.0	53	1082	1220	0	4358720	3600000	4799999
5	714504	1	5.0	81	1559	0	0	5075526	4800000	5999999

					New3RandParmBin5					
6	1530704	2	11.0	68	1846	1352	0	6607789	6000000	7199999
7	1111453	3	13.0	63	1775	1974	1085	7722440	7200000	8399999
8	1306265	2	13.0	87	1887	1907	0	9033539	8400000	9599999
9	1007356	3	7.0	50	1308	1092	1782	10044689	9600000	10799999
10	1102890	3	8.0	65	1258	1995	1175	11151761	10800000	11999999
Total number of pulses in waveform = 21										

♀

Random DFS waveform parameters (NewBin5) 22-Jun-2015 11:27:39

Waveform Num = 1
 Num of Bursts = 16
 Burst Interval (us) = 750000.0

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	113839	1	14.0	64	1985	0	0	113839	0	749999
2	683692	3	5.0	63	1325	1512	1944	799516	750000	1499999
3	919579	3	7.0	77	1532	1183	1059	1723876	1500000	2249999
4	1249696	3	8.0	73	1627	1060	1542	2977346	2250000	2999999
5	526751	3	17.0	80	1588	1547	1489	3508326	3000000	3749999
6	870440	2	7.0	92	1584	1579	0	4383390	3750000	4499999
7	758758	3	12.0	50	1641	1265	1634	5145311	4500000	5249999
8	314677	2	16.0	81	1454	1501	0	5464528	5250000	5999999
9	703658	2	12.0	95	1571	1679	0	6171141	6000000	6749999
10	995301	1	15.0	73	1063	0	0	7169692	6750000	7499999
11	417642	1	18.0	99	1560	0	0	7588397	7500000	8249999
12	1028322	3	9.0	84	1388	1339	1843	8618279	8250000	8999999
13	673325	3	13.0	53	1940	1438	1795	9296174	9000000	9749999
	809971									

					New3RandParmBin5					
14	1116391	1	20.0	70	1283	0	0	10111318	9750000	10499999
15	670278	1	9.0	58	1086	0	0	11228992	10500000	11249999
16		3	13.0	60	1973	1009	1892	11900356	11250000	11999999

Total number of pulses in waveform = 35

♀
Waveform Num = 2
Num of Bursts = 18
Burst Interval (us) = 666667.0

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	416533	3	16.0	73	1702	1993	1005	416533	0	666666
2	836923	1	14.0	62	1412	0	0	1258156	666667	1333333
3	568652	2	15.0	93	1508	1612	0	1828220	1333334	2000000
4	709588	2	7.0	54	1021	1841	0	2540928	2000001	2666667
5	773635	2	17.0	99	1968	1641	0	3317425	2666668	3333334
6	50135	2	9.0	51	1183	1698	0	3371169	3333335	4000001
7	1074880	2	10.0	60	1107	1095	0	4448930	4000002	4666668
8	682768	3	18.0	60	1807	1391	1704	5133900	4666669	5333335
9	787176	3	18.0	59	1461	1797	1150	5925978	5333336	6000002
10	192720	2	16.0	50	1712	1720	0	6123106	6000003	6666669
11	923365	2	12.0	76	1798	1034	0	7049903	6666670	7333336
12	791925	3	15.0	69	1622	1740	1523	7844660	7333337	8000003
13	667494	3	6.0	53	1803	1735	1822	8517039	8000004	8666670
14	188185	2	11.0	88	1778	1752	0	8710584	8666671	9333337
15	1152083	3	11.0	90	1999	1149	1547	9866197	9333338	10000004
16	599516	3	16.0	94	1505	1670	1705	10470408	10000005	10666671
17	739898	2	14.0	54	1618	1133	0	11215186	10666672	11333338
	136611									

18 1 6.0 82 1780 0 0 11354548 11333339 12000005
 Total number of pulses in waveform = 41

♀
 Waveform Num = 3
 Num of Bursts = 10
 Burst Interval (us) = 1200000.0

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	340205	3	13.0	89	1451	1776	1921	340205	0	1199999
2	1124932	2	6.0	84	1516	1472	0	1470285	1200000	2399999
3	1760192	2	19.0	64	1593	1378	0	3233465	2400000	3599999
4	752472	2	9.0	87	1468	1753	0	3988908	3600000	4799999
5	1455134	3	19.0	87	1285	1725	1461	5447263	4800000	5999999
6	801919	3	6.0	76	1921	1532	1134	6253653	6000000	7199999
7	1631344	1	18.0	55	1018	0	0	7889584	7200000	8399999
8	650056	1	10.0	89	1240	0	0	8540658	8400000	9599999
9	1561729	3	19.0	89	1011	1719	1357	10103627	9600000	10799999
10	1593110	3	5.0	95	1401	1020	1719	11700824	10800000	11999999

Total number of pulses in waveform = 23
 ♀
 Waveform Num = 4
 Num of Bursts = 14
 Burst Interval (us) = 857143.0

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	60767	3	10.0	89	1813	1283	1715	60767	0	857142
2	1518793	3	18.0	51	1671	1243	1201	1584371	857143	1714285
3	609037	1	13.0	77	1700	0	0	2197523	1714286	2571428
4	788452	2	13.0	54	1402	1092	0	2987675	2571429	3428571
5	890136	3	19.0	78	1884	1673	1772	3880305	3428572	4285714
	1197274									

New3RandParmBin5										
6	380547	3	5.0	100	1352	1292	1030	5082908	4285715	5142857
7	1210182	3	16.0	87	1151	1017	1124	5467129	5142858	6000000
8	451879	1	18.0	72	1546	0	0	6680603	6000001	6857143
9	664797	2	15.0	95	1353	1514	0	7134028	6857144	7714286
10	1030947	2	9.0	62	1435	1529	0	7801692	7714287	8571429
11	777232	3	20.0	61	1768	1513	1604	8835603	8571430	9428572
12	1166409	1	8.0	78	1735	0	0	9617720	9428573	10285715
13	718826	3	12.0	86	1157	1539	1160	10785864	10285716	11142858
14		2	17.0	92	1721	1010	0	11508546	11142859	12000001

Total number of pulses in waveform = 32

♀

Waveform Num = 5

Num of Bursts = 14

Burst Interval (us) = 857143.0

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	428145	2	11.0	55	1033	1334	0	428145	0	857142
2	751897	3	9.0	75	1736	1266	1603	1182409	857143	1714285
3	802056	3	16.0	75	1185	1696	1888	1989070	1714286	2571428
4	835590	3	8.0	84	1797	1479	1448	2829429	2571429	3428571
5	1219313	3	13.0	97	1398	1853	1611	4053466	3428572	4285714
6	583403	3	19.0	69	1741	1941	1628	4641731	4285715	5142857
7	537339	1	5.0	93	1730	0	0	5184380	5142858	6000000
8	1089170	2	5.0	58	1030	1811	0	6275280	6000001	6857143
9	1118141	2	16.0	55	1609	1794	0	7396262	6857144	7714286
10	315468	2	10.0	99	1474	1468	0	7715133	7714287	8571429
11	1614434	1	17.0	69	1483	0	0	9332509	8571430	9428572
	619048									

					New3RandParmBin5					
12	683353	3	20.0	79	1502	1085	1140	9953040	9428573	10285715
13	951714	1	16.0	50	1489	0	0	10640120	10285716	11142858
14		2	8.0	96	1008	1984	0	11593323	11142859	12000001

Total number of pulses in waveform = 31

♀

Waveform Num = 6

Num of Bursts = 13

Burst Interval (us) = 923077.0

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	889004	3	12.0	50	1451	1969	1028	889004	0	923076
2	96946	3	19.0	82	1253	1812	1497	990398	923077	1846153
3	1134029	1	11.0	61	1006	0	0	2128989	1846154	2769230
4	1302247	1	6.0	73	1515	0	0	3432242	2769231	3692307
5	937219	2	7.0	75	1724	1846	0	4370976	3692308	4615384
6	316931	1	11.0	52	1913	0	0	4691477	4615385	5538461
7	1062780	1	6.0	98	1249	0	0	5756170	5538462	6461538
8	867347	2	15.0	96	1217	1052	0	6624766	6461539	7384615
9	1669216	3	6.0	85	1106	1353	1282	8296251	7384616	8307692
10	63952	3	14.0	75	1049	1143	1491	8363944	8307693	9230769
11	1371974	2	5.0	75	1251	1729	0	9739601	9230770	10153846
12	1154967	3	14.0	58	1537	1220	1010	10897548	10153847	11076923
13	524899	1	8.0	78	1937	0	0	11426214	11076924	12000000

Total number of pulses in waveform = 26

♀

Waveform Num = 7

Num of Bursts = 11

Burst Interval (us) = 1090909.0

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)
	776827									

New3RandParmBin5										
1	347307	1	10.0	82	1664	0	0	776827	0	1090908
2	1324667	2	20.0	54	1723	1567	0	1125798	1090909	2181817
3	1262541	1	10.0	66	1517	0	0	2453755	2181818	3272726
4	915816	2	5.0	72	1077	1886	0	3717813	3272727	4363635
5	1597286	3	12.0	86	1148	1669	1046	4636592	4363636	5454544
6	1033626	2	13.0	60	1255	1790	0	6237741	5454545	6545453
7	1373756	3	12.0	62	1707	1603	1705	7274412	6545454	7636362
8	373492	2	11.0	74	1356	1711	0	8653183	7636363	8727271
9	1077783	3	10.0	61	1669	1932	1691	9029742	8727272	9818180
10	1277192	3	18.0	83	1567	1350	1118	10112817	9818181	10909089
11		3	20.0	78	1419	1857	1026	11394044	10909090	11999998

Total number of pulses in waveform = 25

♀

Waveform Num = 8

Num of Bursts = 9

Burst Interval (us) = 1333333.0

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	911817	1	19.0	97	1520	0	0	911817	0	1333332
2	1108533	3	12.0	60	1011	1329	1370	2021870	1333333	2666665
3	1812724	1	14.0	55	1207	0	0	3838304	2666666	3999998
4	228436	2	18.0	87	1418	1703	0	4067947	3999999	5333331
5	1427880	1	7.0	62	1537	0	0	5498948	5333332	6666664
6	1634376	2	15.0	50	1821	1556	0	7134861	6666665	7999997
7	1928999	3	5.0	95	1848	1094	1508	9067237	7999998	9333330
8	556634	2	20.0	57	1187	1448	0	9628321	9333331	10666663
9	2244091	2	8.0	90	1054	1813	0	11875047	10666664	11999996

Total number of pulses in waveform = 17

New3RandParmBin5

♀
 Waveform Num = 9
 Num of Bursts = 18
 Burst Interval (us) = 666667.0

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	498418	3	12.0	64	1298	1431	1987	498418	0	666666
2	510472	1	5.0	75	1860	0	0	1013606	666667	1333333
3	586051	3	17.0	85	1666	1129	1991	1601517	1333334	2000000
4	402015	3	16.0	95	1752	1810	1796	2008318	2000001	2666667
5	1002850	3	5.0	87	1406	1512	1322	3016526	2666668	3333334
6	539643	3	14.0	97	1022	1352	1952	3560409	3333335	4000001
7	506824	1	17.0	70	1344	0	0	4071559	4000002	4666668
8	1223747	1	15.0	60	1482	0	0	5296650	4666669	5333335
9	168242	1	12.0	56	1100	0	0	5466374	5333336	6000002
10	982352	2	16.0	63	1401	1411	0	6449826	6000003	6666669
11	376118	1	17.0	63	1800	0	0	6828756	6666670	7333336
12	829020	2	10.0	92	1120	1027	0	7659576	7333337	8000003
13	861762	2	12.0	72	1713	1975	0	8523485	8000004	8666670
14	480503	3	5.0	83	1952	1544	1920	9007676	8666671	9333337
15	606262	1	5.0	70	1804	0	0	9619354	9333338	10000004
16	689422	1	10.0	100	1669	0	0	10310580	10000005	10666671
17	603409	2	20.0	56	1839	1089	0	10915658	10666672	11333338
18	1061898	3	7.0	65	1524	1317	1249	11980484	11333339	12000005

Total number of pulses in waveform = 36

♀
 Waveform Num = 10
 Num of Bursts = 18
 Burst Interval (us) = 666667.0

New3RandParmBin5

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	292348	3	7.0	59	1250	1797	1700	292348	0	666666
2	958504	1	8.0	97	1238	0	0	1255599	666667	1333333
3	182187	1	15.0	67	1187	0	0	1439024	1333334	2000000
4	1171296	3	6.0	70	1693	1933	1397	2611507	2000001	2666667
5	86747	1	18.0	73	1915	0	0	2703277	2666668	3333334
6	946944	3	20.0	76	1107	1247	1051	3652136	3333335	4000001
7	938348	1	18.0	88	1312	0	0	4593889	4000002	4666668
8	143662	1	19.0	66	1261	0	0	4738863	4666669	5333335
9	950734	3	18.0	74	1141	1527	1201	5690858	5333336	6000002
10	587019	3	7.0	60	1978	1198	1087	6281746	6000003	6666669
11	465133	1	8.0	65	1036	0	0	6751142	6666670	7333336
12	1087942	1	16.0	92	1642	0	0	7840120	7333337	8000003
13	613465	3	5.0	53	1724	1674	1505	8455227	8000004	8666670
14	434339	1	18.0	84	1193	0	0	8894469	8666671	9333337
15	859214	3	8.0	81	1335	1480	1461	9754876	9333338	10000004
16	489632	3	20.0	98	1118	1455	1928	10248784	10000005	10666671
17	649896	1	13.0	65	1316	0	0	10903181	10666672	11333338
18	1039489	2	5.0	75	1835	1892	0	11943986	11333339	12000005

Total number of pulses in waveform = 35

♀

Waveform Num = 11

Num of Bursts = 13

Burst Interval (us) = 923077.0

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)
	484827									

New3RandParmBin5										
1	457790	1	5.0	60	1418	0	0	484827	0	923076
2	1593858	1	18.0	54	1080	0	0	944035	923077	1846153
3	1061181	1	8.0	76	1210	0	0	2538973	1846154	2769230
4	408235	1	8.0	95	1467	0	0	3601364	2769231	3692307
5	1467134	2	19.0	56	1331	1756	0	4011066	3692308	4615384
6	370084	3	5.0	58	1637	1888	1016	5481287	4615385	5538461
7	609796	2	5.0	59	1998	1409	0	5855912	5538462	6461538
8	1412447	2	20.0	94	1638	1658	0	6469115	6461539	7384615
9	712876	2	7.0	75	1758	1204	0	7884858	7384616	8307692
10	853125	2	20.0	66	1613	1509	0	8600696	8307693	9230769
11	1152039	1	8.0	50	1710	0	0	9456943	9230770	10153846
12	954943	3	14.0	56	1733	1394	1927	10610692	10153847	11076923
13		1	11.0	100	1917	0	0	11570689	11076924	12000000

Total number of pulses in waveform = 22

♀

Waveform Num = 12

Num of Bursts = 14

Burst Interval (us) = 857143.0

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	273284	3	14.0	50	1679	1346	1198	273284	0	857142
2	1273446	3	17.0	95	1591	1981	1459	1550953	857143	1714285
3	208608	1	17.0	57	1241	0	0	1764592	1714286	2571428
4	1530886	3	8.0	65	1459	1973	1761	3296719	2571429	3428571
5	966949	2	18.0	59	1212	1414	0	4268861	3428572	4285714
6	81207	2	16.0	93	1126	1404	0	4352694	4285715	5142857
7	1618387	3	13.0	68	1806	1376	1300	5973611	5142858	6000000
	751587									

					New3RandParmBin5					
8	923105	2	18.0	56	1848	1796	0	6729680	6000001	6857143
9	485001	3	13.0	82	1925	1147	1720	7656429	6857144	7714286
10	507698	2	6.0	83	1034	1427	0	8146222	7714287	8571429
11	1208728	2	18.0	100	1542	1738	0	8656381	8571430	9428572
12	1002539	2	9.0	51	1189	1480	0	9868389	9428573	10285715
13	964563	3	12.0	59	1326	1176	1771	10873597	10285716	11142858
14		3	9.0	97	1413	1548	1790	11842433	11142859	12000001

Total number of pulses in waveform = 34

♀

Waveform Num = 13

Num of Bursts = 17

Burst Interval (us) = 705882.0

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	43125	3	8.0	97	1592	1649	1441	43125	0	705881
2	669927	1	14.0	64	1358	0	0	717734	705882	1411763
3	1267235	1	18.0	66	1710	0	0	1986327	1411764	2117645
4	167174	2	10.0	63	1217	1672	0	2155211	2117646	2823527
5	1203502	2	11.0	56	1939	1972	0	3361602	2823528	3529409
6	417402	1	19.0	67	1696	0	0	3782915	3529410	4235291
7	998339	1	20.0	94	1660	0	0	4782950	4235292	4941173
8	180788	3	20.0	89	1090	1816	1769	4965398	4941174	5647055
9	1167669	3	19.0	63	1963	1344	1186	6137742	5647056	6352937
10	724819	3	9.0	100	1980	1310	1443	6867054	6352938	7058819
11	616104	3	20.0	81	1163	1060	1033	7487891	7058820	7764701
12	344361	1	19.0	64	1670	0	0	7835508	7764702	8470583
13	1039994	3	18.0	50	1847	1291	1928	8877172	8470584	9176465
	491130									

					New3RandParmBin5					
14	717677	1	15.0	96	1951	0	0	9373368	9176466	9882347
15	1052325	3	18.0	55	1662	1966	1531	10092996	9882348	10588229
16	655182	1	17.0	63	1694	0	0	11150480	10588230	11294111
17		1	14.0	53	1970	0	0	11807356	11294112	11999993

Total number of pulses in waveform = 33

♀
Waveform Num = 14
Num of Bursts = 20
Burst Interval (us) = 600000.0

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	142470	3	15.0	70	1731	1602	1646	142470	0	599999
2	836879	2	19.0	65	1142	1704	0	984328	600000	1199999
3	601066	1	9.0	68	1154	0	0	1588240	1200000	1799999
4	240332	3	6.0	50	1061	1433	1604	1829726	1800000	2399999
5	656112	2	9.0	100	1363	1301	0	2489936	2400000	2999999
6	1014354	2	11.0	88	1471	1161	0	3506954	3000000	3599999
7	116129	1	20.0	52	1242	0	0	3625715	3600000	4199999
8	720612	2	11.0	99	1979	1437	0	4347569	4200000	4799999
9	843870	3	13.0	99	1006	1695	1694	5194855	4800000	5399999
10	398810	3	7.0	96	1881	1563	1575	5598060	5400000	5999999
11	480517	3	7.0	83	1726	1870	1815	6083596	6000000	6599999
12	536489	1	12.0	60	1658	0	0	6625496	6600000	7199999
13	1078003	1	10.0	53	1117	0	0	7705157	7200000	7799999
14	309119	3	16.0	64	1450	1875	1151	8015393	7800000	8399999
15	397522	2	16.0	82	1325	1803	0	8417391	8400000	8999999
16	1062823	3	19.0	96	1979	1178	1900	9483342	9000000	9599999
	619811									

					New3RandParmBin5					
17	383165	3	20.0	95	1060	1971	1965	10108210	9600000	10199999
18	399077	3	6.0	95	1295	1732	1362	10496371	10200000	10799999
19	1060889	1	10.0	67	1092	0	0	10899837	10800000	11399999
20		3	9.0	66	1593	1863	1234	11961818	11400000	11999999

Total number of pulses in waveform = 45

♀
Waveform Num = 15
Num of Bursts = 17
Burst Interval (us) = 705882.0

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	485554	3	16.0	61	1203	1739	1702	485554	0	705881
2	507159	2	13.0	65	1287	1546	0	997357	705882	1411763
3	971216	1	20.0	87	1835	0	0	1971406	1411764	2117645
4	152266	2	16.0	72	1053	1609	0	2125507	2117646	2823527
5	714109	1	20.0	69	1647	0	0	2842278	2823528	3529409
6	832101	3	6.0	87	1282	1390	1080	3676026	3529410	4235291
7	734162	3	11.0	69	1728	1967	1539	4413940	4235292	4941173
8	1137954	2	17.0	59	1463	1729	0	5557128	4941174	5647055
9	291701	2	11.0	71	1152	1286	0	5852021	5647056	6352937
10	848380	2	14.0	50	1481	1403	0	6702839	6352938	7058819
11	815752	2	7.0	73	1534	1209	0	7521475	7058820	7764701
12	383697	2	8.0	76	1060	1644	0	7907915	7764702	8470583
13	1079183	1	11.0	77	1454	0	0	8989802	8470584	9176465
14	323672	3	11.0	81	1312	1638	1956	9314928	9176466	9882347
15	833453	3	6.0	70	1767	1693	1171	10153287	9882348	10588229
16	945547	2	11.0	70	1942	1862	0	11103465	10588230	11294111
	555317									

17 2 6.0 90 1460 1819 0 11662586 11294112 11999993
 Total number of pulses in waveform = 36

♀
 Waveform Num = 16
 Num of Bursts = 18
 Burst Interval (us) = 666667.0

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	503840	2	6.0	77	1266	1055	0	503840	0	666666
2	591632	3	20.0	62	1212	1072	1064	1097793	666667	1333333
3	835704	3	6.0	90	1798	1047	1303	1936845	1333334	2000000
4	246849	3	6.0	63	1708	1120	1581	2187842	2000001	2666667
5	894942	1	15.0	65	1176	0	0	3087193	2666668	3333334
6	602793	2	8.0	81	1971	1596	0	3691162	3333335	4000001
7	616434	1	15.0	87	1215	0	0	4311163	4000002	4666668
8	877682	1	7.0	98	1763	0	0	5190060	4666669	5333335
9	295500	3	8.0	67	1495	1198	1910	5487323	5333336	6000002
10	917149	2	18.0	99	1806	1363	0	6409075	6000003	6666669
11	719057	2	16.0	93	1987	1583	0	7131301	6666670	7333336
12	672973	3	16.0	74	1927	1188	1945	7807844	7333337	8000003
13	269832	1	15.0	71	1361	0	0	8082736	8000004	8666670
14	770831	1	18.0	56	1329	0	0	8854928	8666671	9333337
15	817871	1	18.0	98	1214	0	0	9674128	9333338	10000004
16	507006	3	12.0	99	1067	1902	1792	10182348	10000005	10666671
17	629348	1	14.0	63	1132	0	0	10816457	10666672	11333338
18	1160815	3	18.0	69	1626	1259	1449	11978404	11333339	12000005

Total number of pulses in waveform = 36
 ♀
 Waveform Num = 17

New3RandParmBin5

Num of Bursts = 16
Burst Interval (us) = 750000.0

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	429466	2	7.0	82	1318	1736	0	429466	0	749999
2	932247	3	6.0	76	1331	1849	1463	1364767	750000	1499999
3	603125	3	17.0	73	1454	1424	1402	1972535	1500000	2249999
4	291741	2	5.0	99	1895	1900	0	2268556	2250000	2999999
5	1137742	3	14.0	73	1256	1695	1987	3410093	3000000	3749999
6	532211	2	19.0	82	1189	1333	0	3947242	3750000	4499999
7	559157	3	18.0	97	1795	1306	1931	4508921	4500000	5249999
8	1131473	1	18.0	61	1829	0	0	5645426	5250000	5999999
9	357778	1	13.0	89	1870	0	0	6005033	6000000	6749999
10	1179224	1	5.0	89	1774	0	0	7186127	6750000	7499999
11	656268	3	18.0	90	1133	1456	1115	7844169	7500000	8249999
12	999661	1	16.0	59	1462	0	0	8847534	8250000	8999999
13	638827	3	14.0	91	1688	1909	1018	9487823	9000000	9749999
14	274034	2	17.0	61	1164	1951	0	9766472	9750000	10499999
15	863859	1	17.0	78	1163	0	0	10633446	10500000	11249999
16	1294128	3	10.0	75	1868	1638	1127	11928737	11250000	11999999

Total number of pulses in waveform = 34

♀

Waveform Num = 18
Num of Bursts = 15
Burst Interval (us) = 800000.0

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	104761	1	11.0	58	1491	0	0	104761	0	799999
	1109556									

New3RandParmBin5										
2	620813	2	13.0	99	1232	1407	0	1215808	800000	1599999
3	783522	3	11.0	73	1195	1466	1251	1839260	1600000	2399999
4	653640	3	7.0	84	1572	1716	1780	2626694	2400000	3199999
5	1403638	2	10.0	71	1055	1025	0	3285402	3200000	3999999
6	549857	1	10.0	53	1615	0	0	4691120	4000000	4799999
7	502699	3	18.0	79	1930	1631	1644	5242592	4800000	5599999
8	897434	2	6.0	83	1969	1504	0	5750496	5600000	6399999
9	1110952	2	6.0	63	1355	1692	0	6651403	6400000	7199999
10	673105	3	6.0	75	1343	1415	1091	7765402	7200000	7999999
11	887818	2	11.0	66	1648	1616	0	8442356	8000000	8799999
12	710952	1	16.0	99	1459	0	0	9333438	8800000	9599999
13	380744	1	15.0	74	1017	0	0	10045849	9600000	10399999
14	875337	1	16.0	97	1898	0	0	10427610	10400000	11199999
15		1	5.0	93	1500	0	0	11304845	11200000	11999999

Total number of pulses in waveform = 28

♀

Waveform Num = 19

Num of Bursts = 15

Burst Interval (us) = 800000.0

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	730638	1	13.0	68	1004	0	0	730638	0	799999
2	122735	1	5.0	58	1670	0	0	854377	800000	1599999
3	1206701	3	20.0	57	1355	1451	1252	2062748	1600000	2399999
4	868799	3	10.0	79	1693	1792	1510	2935605	2400000	3199999
5	548410	3	8.0	92	1355	1278	1186	3489010	3200000	3999999
6	733221	3	20.0	90	1391	1120	1546	4226050	4000000	4799999
	998718									

New3RandParmBin5										
7	835638	2	8.0	98	1628	1632	0	5228825	4800000	5599999
8	693607	1	14.0	99	1489	0	0	6067723	5600000	6399999
9	1186885	2	12.0	69	1982	1118	0	6762819	6400000	7199999
10	203204	2	18.0	56	1230	1738	0	7952804	7200000	7999999
11	931503	2	8.0	100	1445	1568	0	8158976	8000000	8799999
12	1244921	2	6.0	64	1316	1400	0	9093492	8800000	9599999
13	361825	3	14.0	80	1350	1442	1756	10341129	9600000	10399999
14	667463	3	16.0	90	1479	1336	1650	10707502	10400000	11199999
15		2	5.0	61	1287	1334	0	11379430	11200000	11999999

Total number of pulses in waveform = 33

♀

Waveform Num = 20

Num of Bursts = 17

Burst Interval (us) = 705882.0

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	248976	2	12.0	50	1231	1515	0	248976	0	705881
2	1056326	2	11.0	85	1978	1682	0	1308048	705882	1411763
3	550336	2	10.0	56	1284	1287	0	1862044	1411764	2117645
4	606259	3	16.0	95	1912	1287	1287	2470874	2117646	2823527
5	1036883	1	19.0	75	1076	0	0	3512243	2823528	3529409
6	450344	3	5.0	80	1386	1149	1742	3963663	3529410	4235291
7	803346	3	15.0	55	1954	1739	1185	4771286	4235292	4941173
8	206430	2	13.0	75	1026	1797	0	4982594	4941174	5647055
9	1305413	2	13.0	69	1430	1464	0	6290830	5647056	6352937
10	666103	3	8.0	60	1499	1866	1894	6959827	6352938	7058819
11	605425	3	17.0	71	1300	1806	1663	7570511	7058820	7764701
	589608									

New3RandParmBin5										
12	350817	3	15.0	84	1574	1955	1615	8164888	7764702	8470583
13	714729	2	19.0	67	1947	1779	0	8520849	8470584	9176465
14	889447	2	13.0	67	1105	1468	0	9239304	9176466	9882347
15	557713	1	13.0	72	1176	0	0	10131324	9882348	10588229
16	717553	1	9.0	92	1537	0	0	10690213	10588230	11294111
17		2	12.0	76	1691	1292	0	11409303	11294112	11999993

Total number of pulses in waveform = 37

♀

Waveform Num = 21

Num of Bursts = 15

Burst Interval (us) = 800000.0

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)
	55992									
1	1214285	3	16.0	57	1553	1794	1907	55992	0	799999
2	375147	3	16.0	73	1578	1856	1391	1275531	800000	1599999
3	1184756	3	10.0	70	1204	1486	1317	1655503	1600000	2399999
4	513026	3	7.0	87	1793	1971	1316	2844266	2400000	3199999
5	783625	1	5.0	90	1678	0	0	3362372	3200000	3999999
6	1262491	3	9.0	61	1670	1921	1884	4147675	4000000	4799999
7	752743	2	8.0	53	1167	1023	0	5415641	4800000	5599999
8	996754	1	6.0	94	1538	0	0	6170574	5600000	6399999
9	443708	1	6.0	86	1410	0	0	7168866	6400000	7199999
10	720342	1	18.0	62	1901	0	0	7613984	7200000	7999999
11	960693	1	18.0	76	1386	0	0	8336227	8000000	8799999
12	1080158	2	6.0	84	1543	1258	0	9298306	8800000	9599999
13	533288	1	5.0	67	1050	0	0	10381265	9600000	10399999
14	705291	3	6.0	88	1708	1393	1663	10915603	10400000	11199999

15 1 14.0 94 1464 0 0 11625658 11200000 11999999
 Total number of pulses in waveform = 29

♀
 Waveform Num = 22
 Num of Bursts = 8
 Burst Interval (us) = 1500000.0

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	1227185	1	13.0	76	1049	0	0	1227185	0	1499999
2	1041662	3	11.0	59	1928	1205	1988	2269896	1500000	2999999
3	1537675	1	14.0	84	1726	0	0	3812692	3000000	4499999
4	698763	1	15.0	82	1952	0	0	4513181	4500000	5999999
5	2701631	1	15.0	55	1590	0	0	7216764	6000000	7499999
6	1273865	2	16.0	91	1892	1196	0	8492219	7500000	8999999
7	559171	3	18.0	59	1605	1162	1198	9054478	9000000	10499999
8	2246517	1	20.0	82	1878	0	0	11304960	10500000	11999999

Total number of pulses in waveform = 13

♀
 Waveform Num = 23
 Num of Bursts = 17
 Burst Interval (us) = 705882.0

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	146331	1	10.0	100	1717	0	0	146331	0	705881
2	1139646	3	8.0	89	1857	1953	1252	1287694	705882	1411763
3	679569	1	10.0	57	1014	0	0	1972325	1411764	2117645
4	647573	1	20.0	77	1265	0	0	2620912	2117646	2823527
5	725183	3	20.0	90	1309	1315	1833	3347360	2823528	3529409
6	397778	1	13.0	80	1410	0	0	3749595	3529410	4235291
7	993337	2	9.0	98	1042	1561	0	4744342	4235292	4941173
	546833									

					New3RandParmBin5					
8	829555	2	5.0	87	1858	1315	0	5293778	4941174	5647055
9	606389	1	19.0	60	1336	0	0	6126506	5647056	6352937
10	472968	3	20.0	87	1204	1000	1179	6734231	6352938	7058819
11	991738	2	12.0	84	1488	1497	0	7210582	7058820	7764701
12	340493	2	6.0	93	1770	1129	0	8205305	7764702	8470583
13	1273106	2	5.0	51	1223	1359	0	8548697	8470584	9176465
14	261899	2	12.0	93	1683	1973	0	9824385	9176466	9882347
15	1127545	2	14.0	67	1741	1636	0	10089940	9882348	10588229
16	374218	1	8.0	67	1580	0	0	11220862	10588230	11294111
17		3	11.0	84	1786	1563	1659	11596660	11294112	11999993

Total number of pulses in waveform = 32

♀

Waveform Num = 24

Num of Bursts = 15

Burst Interval (us) = 800000.0

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	412149	3	10.0	63	1130	1183	1314	412149	0	799999
2	761327	1	14.0	52	1040	0	0	1177103	800000	1599999
3	666235	3	17.0	61	1715	1679	1330	1844378	1600000	2399999
4	1089940	1	13.0	69	1258	0	0	2939042	2400000	3199999
5	608371	1	13.0	70	1153	0	0	3548671	3200000	3999999
6	1242717	1	10.0	52	1058	0	0	4792541	4000000	4799999
7	682325	1	16.0	78	1343	0	0	5475924	4800000	5599999
8	420798	1	11.0	89	1436	0	0	5898065	5600000	6399999
9	546890	2	6.0	57	1250	1871	0	6446391	6400000	7199999
10	858822	2	8.0	96	1763	1189	0	7308334	7200000	7999999
	1129652									

					New3RandParmBin5					
11		2	17.0	57	1371	1004	0	8440938	8000000	8799999
	1053952									
12		1	8.0	69	1619	0	0	9497265	8800000	9599999
	630674									
13		2	19.0	90	1546	1626	0	10129558	9600000	10399999
	390353									
14		1	7.0	79	1412	0	0	10523083	10400000	11199999
	865976									
15		2	13.0	53	1441	1738	0	11390471	11200000	11999999

Total number of pulses in waveform = 24

♀
Waveform Num = 25
Num of Bursts = 9
Burst Interval (us) = 1333333.0

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)
	1153331									
1	1156249	1	14.0	79	1953	0	0	1153331	0	1333332
2	1116298	2	20.0	99	1337	1606	0	2311533	1333333	2666665
3	891069	2	10.0	58	1722	1340	0	3430774	2666666	3999998
4	2260159	3	11.0	65	1861	1541	1444	4324905	3999999	5333331
5	500313	3	14.0	77	1028	1595	1453	6589910	5333332	6666664
6	1420525	3	16.0	58	1749	1749	1513	7094299	6666665	7999997
7	1604458	1	19.0	92	1887	0	0	8519835	7999998	9333330
8	808217	3	13.0	91	1839	1480	1145	10126180	9333331	10666663
9		2	13.0	88	1843	1317	0	10938861	10666664	11999996

Total number of pulses in waveform = 20

♀
Waveform Num = 26
Num of Bursts = 18
Burst Interval (us) = 666667.0

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)
	635786									
1	552337	1	5.0	66	1869	0	0	635786	0	666666
2	297696	1	20.0	63	1595	0	0	1189992	666667	1333333

New3RandParmBin5										
3	1121041	2	19.0	91	1054	1343	0	1489283	1333334	2000000
4	682098	1	16.0	96	1920	0	0	2612721	2000001	2666667
5	423257	1	16.0	50	1124	0	0	3296739	2666668	3333334
6	454870	3	7.0	73	1333	1874	1985	3721120	3333335	4000001
7	578799	1	12.0	57	1168	0	0	4181182	4000002	4666668
8	1008493	2	14.0	63	1021	1315	0	4761149	4666669	5333335
9	405634	1	15.0	90	1203	0	0	5771978	5333336	6000002
10	562293	2	15.0	85	1322	1140	0	6178815	6000003	6666669
11	1077565	3	17.0	55	1470	1209	1974	6743570	6666670	7333336
12	605401	3	10.0	56	1253	1818	1270	7825788	7333337	8000003
13	578202	2	8.0	96	1900	1180	0	8435530	8000004	8666670
14	806018	2	18.0	89	1243	1003	0	9016812	8666671	9333337
15	789093	1	9.0	52	1547	0	0	9825076	9333338	10000004
16	170382	2	18.0	86	1915	1565	0	10615716	10000005	10666671
17	646586	1	19.0	51	1164	0	0	10789578	10666672	11333338
18		3	13.0	50	1409	1453	1280	11437328	11333339	12000005

Total number of pulses in waveform = 32

♀

Waveform Num = 27

Num of Bursts = 20

Burst Interval (us) = 600000.0

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	216540	2	5.0	75	1788	1040	0	216540	0	599999
2	936705	1	17.0	81	1268	0	0	1156073	600000	1199999
3	60873	2	20.0	58	1406	1259	0	1218214	1200000	1799999
4	697011	2	8.0	56	1401	1460	0	1917890	1800000	2399999
	1075029									

New3RandParmBin5										
5	594167	2	11.0	94	1846	1703	0	2995780	2400000	2999999
6	167660	3	11.0	52	1968	1207	1616	3593496	3000000	3599999
7	689101	2	12.0	85	1072	1795	0	3765947	3600000	4199999
8	721650	1	5.0	77	1103	0	0	4457915	4200000	4799999
9	456564	1	11.0	54	1835	0	0	5180668	4800000	5399999
10	693893	3	13.0	57	1025	1010	1522	5639067	5400000	5999999
11	550021	1	7.0	89	1123	0	0	6336517	6000000	6599999
12	565479	3	19.0	55	1155	1563	1557	6887661	6600000	7199999
13	552927	2	6.0	52	1669	1422	0	7457415	7200000	7799999
14	799710	3	12.0	66	1192	1683	1307	8013433	7800000	8399999
15	300136	1	15.0	91	1406	0	0	8817325	8400000	8999999
16	850730	2	20.0	78	1636	1839	0	9118867	9000000	9599999
17	547210	3	10.0	57	1340	1210	1956	9973072	9600000	10199999
18	570106	1	10.0	99	1129	0	0	10524788	10200000	10799999
19	616073	2	14.0	85	1984	1760	0	11096023	10800000	11399999
20		1	20.0	65	1799	0	0	11715840	11400000	11999999

Total number of pulses in waveform = 38

♀

Waveform Num = 28

Num of Bursts = 9

Burst Interval (us) = 1333333.0

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	1023682	3	7.0	84	1182	1577	1108	1023682	0	1333332
2	381684	3	15.0	86	1428	1528	1420	1409233	1333333	2666665
3	2278636	2	15.0	86	1376	1660	0	3692245	2666666	3999998
4	839305	2	20.0	76	1995	1882	0	4534586	3999999	5333331
	1190952									

					New3RandParmBin5					
5	2227608	2	20.0	82	1613	1512	0	5729415	5333332	6666664
6	116225	1	14.0	82	1943	0	0	7960148	6666665	7999997
7	1812848	2	16.0	71	1486	1243	0	8078316	7999998	9333330
8	1353148	3	13.0	51	1113	1640	1219	9893893	9333331	10666663
9		1	14.0	50	1503	0	0	11251013	10666664	11999996

Total number of pulses in waveform = 19

♀
Waveform Num = 29
Num of Bursts = 8
Burst Interval (us) = 1500000.0

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	501741	1	10.0	75	1874	0	0	501741	0	1499999
2	1503192	1	5.0	53	1061	0	0	2006807	1500000	2999999
3	1520702	3	14.0	97	1465	1303	1646	3528570	3000000	4499999
4	2217705	2	9.0	100	1887	1474	0	5750689	4500000	5999999
5	1693189	3	6.0	50	1147	1748	1988	7447239	6000000	7499999
6	1468921	3	18.0	62	1220	1610	1569	8921043	7500000	8999999
7	278002	1	17.0	89	1675	0	0	9203444	9000000	10499999
8	1364940	1	10.0	81	1852	0	0	10570059	10500000	11999999

♀
Total number of pulses in waveform = 15
Waveform Num = 30
Num of Bursts = 16
Burst Interval (us) = 750000.0

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	717681	2	8.0	51	1853	1767	0	717681	0	749999
2	528903	2	10.0	67	1203	1332	0	1250204	750000	1499999
3	535266	2	7.0	76	1595	1452	0	1788005	1500000	2249999
	698819									

					New3RandParmBin5					
4		3	20.0	58	1233	1229	1611	2489871	2250000	2999999
	748106									
5		1	18.0	63	1288	0	0	3242050	3000000	3749999
	1042955									
6		1	6.0	58	1590	0	0	4286293	3750000	4499999
	314637									
7		2	8.0	94	1061	1864	0	4602520	4500000	5249999
	804513									
8		3	8.0	92	1973	1033	1131	5409958	5250000	5999999
	1135893									
9		3	11.0	67	1984	1027	1077	6549988	6000000	6749999
	197368									
10		1	16.0	52	1121	0	0	6751444	6750000	7499999
	1046468									
11		1	15.0	50	1865	0	0	7799033	7500000	8249999
	1035012									
12		1	13.0	51	1727	0	0	8835910	8250000	8999999
	705655									
13		3	7.0	59	1413	1563	1870	9543292	9000000	9749999
	905189									
14		3	7.0	51	1795	1056	1374	10453327	9750000	10499999
	242784									
15		1	9.0	77	1458	0	0	10700336	10500000	11249999
	1052529									
16		3	20.0	98	1603	1157	1401	11754323	11250000	11999999
Total number of pulses in waveform = 32										

♀