

MRT Technology (Suzhou) Co., Ltd

Phone: +86-512-66308358 +86-512-66308368 www.mrt-cert.com

Report No.: 1510RSU00403 Report Version: Issue Date: 11-24-2015

DFS MEASUREMENT REPORT

FCC PART 15.407

Calix Inc. APPLICANT:

Application Type: Certification

Product: WIFI dual band 4 GE LAN GPON HGU

Model No.: 844G-1, 854G-1, 844GE-1

Brand Name: Calix

FCC Classification: Unlicensed National Information Infrastructure (UNII)

Part 15.407 FCC Rule Part(s):

KDB 905462 D02v01r01, KDB 905462 D04v01

Type of Device: Master Device

Client Device (No radar detection)

Client Device with radar detection

Test Date: March 12 ~ 23, 2015

Reviewed By : Robin Wu)

Approved By

(Marlin Chen)





The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in KDB 905462 D02v01r01. Test results reported herein relate only to the item(s) tested.

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





Revision History

Report No.	Version	Description	Issue Date
1502RSU00403	Rev. 01	Initial report	04-01-2015
1502RSU00403	Rev. 02	Added the model number "844GE-1"	11-24-2015

FCC ID: 2ABLK-8X4G-1V2 Page Number: 2 of 122



CONTENTS

De	scriptio	n	Page
Rev	vision H	History	2
§2.	1033 G	eneral Information	5
1.	INTRO	ODUCTION	6
	1.1.	Scope	6
	1.2.	MRT Test Location	6
2.	PROD	DUCT INFORMATION	7
	2.1.	Equipment Description	7
	2.2.	Description of Available Antennas	8
	2.3.	Description of Antenna RF Port	9
	2.4.	DFS Band Carrier Frequencies Operation	10
	2.5.	Test Mode	11
3.	DFS I	DETECTION THRESHOLDS AND RADAR TEST WAVEFORMS	12
	3.1.	Applicability	12
	3.2.	DFS Devices Requirements	13
	3.3.	DFS Detection Threshold Values	14
	3.4.	Parameters of DFS Test Signals	15
	3.5.	Conducted Test Setup	18
4.	TEST	EQUIPMENT CALIBRATION DATE	19
5.	TEST	RESULT	20
	5.1.	Summary	20
	5.2.	Radar Waveform Calibration	21
	5.2.1.	Calibration Setup	21
	5.2.2.	Calibration Procedure	21
	5.2.3.	Cablibration Result	22
	5.3.	Channel Loading Test Result	26
	5.4.	UNII Detection Bandwidth Measurement	28
	5.4.1.	Test Limit	28
	5.4.2.	Test Procedure	28
	5.4.3.	Test Result	29
	5.5.	Initial Channel Availability Check Time Measurement	35
	5.5.1.	Test Limit	35
	5.5.2.	Test Procedure	35
	5.5.3.	Test Result	36





6.

5.6.	Radar Burst at the Beginning of the Channel Availability Check Time Measurement	37
5.6.1.	Test Limit	37
5.6.2.	Test Procedure	37
5.6.3.	Test Result	38
5.7.	Radar Burst at the End of the Channel Availability Check Time Measurement	39
5.7.1.	Test Limit	39
5.7.2.	Test Procedure	39
5.7.3.	Test Result	40
5.8.	In-Service Monitoring for Channel Move Time, Channel Closing Transmission Time	and
Non-O	ccupancy Period Measurement	41
5.8.1.	Test Limit	41
5.8.2.	Test Procedure Used	41
5.8.3.	Test Result	42
5.9.	Statistical Performance Check Measurement	44
5.9.1.	Test Limit	44
5.9.2.	Test Procedure	44
5.9.3.	Test Result	45
CONC	CLUSION	122



§2.1033 General Information

Applicant:	Calix Inc.			
Applicant Address:	1035 N. McDowell Blvd Petaluma, CA94954 U.S.A			
Manufacturer:	Calix Inc.			
Manufacturer Address:	1035 N. McDowell Blvd Petaluma, CA94954 U.S.A			
Test Site:	MRT Technology (Suzhou) Co., Ltd			
Test Site Address:	D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong			
	Economic Development Zone, Suzhou, China			
MRT FCC Registration No.:	ation No.: 809388			
Model No.:	844G-1, 854G-1, 844GE-1			
FCC ID:	2ABLK-8X4G-1V2			
Test Device Serial No.:	N/A ☐ Production ☐ Pre-Production ☐ Engineering			
FCC Classification:	Unlicensed National Information Infrastructure (UNII)			

Test Facility / Accreditations

Measurements were performed at MRT Laboratory located in Tian'edang Rd., Suzhou, China.

- MRT facility is a FCC registered (MRT Reg. No. 809388) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules.
- MRT facility is an IC registered (MRT Reg. No. 11384A-1) test laboratory with the site description on file at Industry Canada.
- MRT facility is a VCCI registered (R-4179, G-814, C-4664, T-2206) test laboratory with the site description on file at VCCI Council.
- MRT Lab is accredited to ISO 17025 by the American Association for Laboratory Accreditation (A2LA) under the American Association for Laboratory Accreditation Program (A2LA Cert. No. 3628.01) in EMC, Telecommunications and Radio testing for FCC, Industry Canada, EU and TELEC Rules.



FCC ID: 2ABLK-8X4G-1V2 Page Number: 5 of 122



1. INTRODUCTION

1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Industry Canada Certification and Engineering Bureau.

1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taihu Lake. These measurement tests were conducted at the MRT Technology (Suzhou) Co., Ltd. Facility located at D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4-2009 on September 30, 2013.





2. PRODUCT INFORMATION

2.1. Equipment Description

D (N	WIEL L. H. JACELAN OPONIUGIA
Product Name	WIFI dual band 4 GE LAN GPON HGU
Model No.	844G-1, 854G-1, 844GE-1
Radio Type	Intentional Transceiver
Operation Mode	Master Device
Frequency Range	For 802.11a/n-HT20:
	5260~5320MHz, 5500~5700MHz
	For 802.11ac-VHT20:
	5260~5320MHz, 5500~5720MHz
	For 802.11n-HT40:
	5270~5310MHz, 5510~5670MHz
	For 802.11ac-VHT40:
	5270~5310MHz, 5510~5710MHz
	For 802.11ac-VHT80:
	5290MHz, 5530MHz, 5610MHz, 5690MHz
Maximum Output Power	802.11a: 20.65dBm
	802.11n-HT20: 20.50dBm
	802.11ac-VHT20: 21.16dBm
	802.11n-HT40: 20.79dBm
	802.11ac-VHT40: 21.26dBm
	802.11ac-VHT80: 20.92dBm
Type of Modulation	802.11a/n/ac: OFDM;
Power-on cycle	Requires 181.7 seconds to complete its power-on cycle.
Uniform Spreading	For the 5250-5350MHz, 5470-5725 MHz bands, the Master device
	provides, on aggregate, uniform loading of the spectrum across all
	devices by selecting an operating channel among the available
	channels using a random algorithm.

Note 1: There is different laser module between models "844G-1" & "844GE-1".

Note 2: For this model "844GE-1" has been assessed the worst case mode in this report, and showed in the Annex 1.

FCC ID: 2ABLK-8X4G-1V2 Page Number: 7 of 122



2.2. Description of Available Antennas

Antenna Type	Frequency Band (GHz)	T _X Paths	Directional Gain (dBi)
PCB Antenna	2.4	2	1.90

Antenna	Frequency T _x Paths		Directional Gain (dBi)		
Type Band (GHz)			Beam Forming	CDD	
	5.2	4	8.04	8.04	
PCB	5.3	4	7.78	7.78	
Antenna	5.6	4	8.38	8.38	
	5.8	4	8.70	8.70	

Note:

- 1. Transmit at 2.4GHz support two antennas, and support four antennas at 5GHz transmit. There are different antenna gains between each antenna.
- 2. The EUT working on Beam Forming mode, and the Beam Forming support 802.11n/ac, not include 802.11a, and 802.11a working on CDD mode.
- 3. Correlated signals include, but are not limited to, signals transmitted in any of the following modes:
 - Any transmit Beam Forming mode, whether fixed or adaptive (e.g., phased array modes, closed loop MIMO modes, Transmitter Adaptive Antenna modes, Maximum Ratio Transmission (MRT) modes, and Statistical Eigen Beam Forming (EBF) modes).
- 4. Unequal antenna gains, with equal transmit powers. For antenna gains given by $G_1, G_2, ..., G_N$ dBi
 - transmit signals are correlated, then
 - Directional gain = 10 log[(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})²/N_{ANT}] dBi [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

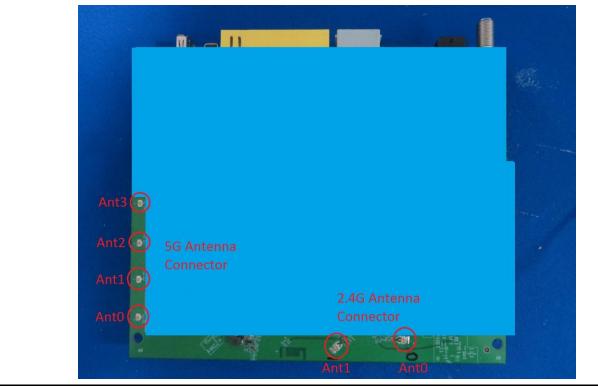
FCC ID: 2ABLK-8X4G-1V2 Page Number: 8 of 122





2.3. Description of Antenna RF Port

RF Port						
Test Mode	Software Control Port					
2.4GHz T _X	Ant 0 Ant 1					
Test Mode	Software Control Port					
5GHz T _x Ant 0 Ant 1 Ant 2 Ant 3						



Report No.: 1502RSU00403



2.4. DFS Band Carrier Frequencies Operation

802.11a/n-HT20 Center Working Frequency of Each Channel

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

802.11ac-VHT20 Center Working Frequency of Each Channel

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

802.11n-HT40 Center Working Frequency of Each Channel

Channel	Frequency	Channel	Frequency	Channel	Frequency
54	5270 MHz	62	5310 MHz	102	5510 MHz
110	5550 MHz	118	5590 MHz	126	5630 MHz
134	5670 MHz	N/A	N/A	N/A	N/A

802.11ac-VHT40 Center Working Frequency of Each Channel

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

FCC ID: 2ABLK-8X4G-1V2 Page Number: 10 of 122



Report No.: 1502RSU00403

802.11ac-VHT80 Center Working Frequency of Each Channel

Channel	Frequency	Channel	Frequency	Channel	Frequency
58	5290 MHz	106	5530 MHz	122	5610 MHz
138	5690 MHz	N/A	N/A	N/A	N/A

2.5. Test Mode

Test Mode 1: Communication with Notebook
--

FCC ID: 2ABLK-8X4G-1V2 Page Number: 11 of 122



3. DFS DETECTION THRESHOLDS AND RADAR TEST WAVEFORMS

3.1. Applicability

The following table from FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v01r01 lists the applicable requirements for the DFS testing.

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

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

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

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

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

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

FCC ID: 2ABLK-8X4G-1V2 Page Number: 12 of 122



3.2. DFS Devices Requirements

Per FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v01r01 the following are the requirements for Master Devices:

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

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

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

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

FCC ID: 2ABLK-8X4G-1V2 Page Number: 13 of 122



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

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

Table 3-3: DFS Response Requirements

3.3. DFS Detection Threshold Values

The DFS detection thresholds are defined for Master devices and Client Devices with In-service monitoring. These detection thresholds are listed in the following table.

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

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

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

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

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

FCC ID: 2ABLK-8X4G-1V2 Page Number: 14 of 122



3.4. Parameters of DFS Test Signals

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

Short Pulse Radar Test Waveforms

Radar	Pulse	PRI	Number of Pulses	Minimum	Minimum
Туре	Width	(µsec)		Percentage of	Number of
	(µsec)			Successful	Trials
	(Detection	
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique		60%	30
		PRI values randomly	$\left(\frac{1}{2c_0}\right)$.		
		selected from the list	Roundup $\left\{ \begin{array}{c} (360) \\ (10.106) \end{array} \right\}$		
		of 23 PRI values in	$\left \left(\frac{19 \cdot 10^6}{1000} \right) \right $		
		Table 3-6	[(PRI _{usec})]		
		Test B: 15 unique			
		PRI values randomly			
		selected within the			
		range of 518-3066			
		μsec, with a			
		minimum increment			
		of 1 µsec, excluding			
		PRI values selected			
		in Test A			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate	(Radar Typ	oes 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.

Table 3-5: Parameters for Short Pulse Radar Waveforms

FCC ID: 2ABLK-8X4G-1V2 Page Number: 15 of 122



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

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

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



Long Pulse Radar Test Waveform

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

Table 3-7: Parameters for Long Pulse Radar Waveforms

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

Frequency Hopping Radar Test Waveform

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

Table 3-8: Parameters for Frequency Hopping Radar Waveforms

For the Frequency Hopping Radar Type, the same Burst parameters are used for each waveform.

The hopping sequence is different for each waveform and a 100-length segment is selected from the hopping sequence defined by the following algorithm:

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

FCC ID: 2ABLK-8X4G-1V2 Page Number: 17 of 122



3.5. Conducted Test Setup

The FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v01r01 describes a radiated test setup and a conducted test setup. The conducted test setup was used for this testing. Figure 3-1 shows the typical test setup.

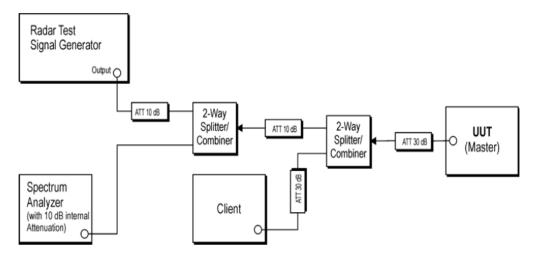


Figure 3-1: Conducted Test Setup where UUT is a Master and Radar Test Waveforms are injected into the Masters





4. TEST EQUIPMENT CALIBRATION DATE

Dynamic Frequency Selection (DFS)

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Spectrum Analyzer	Agilent	N9020A	MRTSUE06106	1 year	2016/05/08
ESG Vector Signal Generator	Agilent	E4438C	MRTSUE06026	1 year	2015/12/09
Temperature/Humidity Meter	Ouleinuo	N/A	MRTSUE06112	1 year	2015/11/20

Software	Version	Manufacturer	Function				
Pulse Building	N/A	Agilent	Radar Signal Generation Software				
DFS Tool	V 6.9.2	Agilent	DFS Test Software				

FCC ID: 2ABLK-8X4G-1V2 Page Number: 19 of 122



5. TEST RESULT

5.1. Summary

Company Name: Calix Inc.

FCC ID: 2ABLK-8X4G-1V2

FCC Classification: Unlicensed National Information Infrastructure (UNII)

Parameter	Limit	Test Result	Reference
UNII Detection Bandwidth Measurement	Refer Table 3-3	Pass	Section 5.4
Initial Channel Availability Check Time	Refer Table 3-3	Pass	Section 5.5
Radar Burst at the Beginning of the Channel Availability Check Time	Refer Table 3-3	Pass	Section 5.6
Radar Burst at the End of the Channel Availability Check Time	Refer Table 3-3	Pass	Section 5.7
In-Service Monitoring for Channel Move Time, Channel Closing Transmission Time	Refer Table 3-3	Pass	Section 5.8
Non-Occupancy Period	Refer Table 3-3	Pass	Section 5.8
Statistical Performance Check	Refer Table 3-3	Pass	Section 5.9

FCC ID: 2ABLK-8X4G-1V2 Page Number: 20 of 122



5.2. Radar Waveform Calibration

5.2.1. Calibration Setup

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

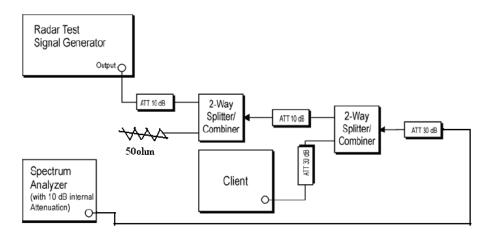


Figure 3-2: Conducted Test Setup

5.2.2. Calibration Procedure

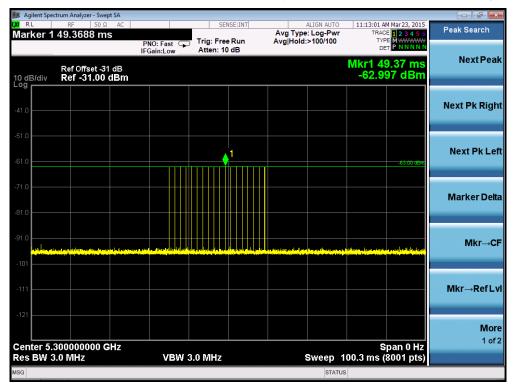
The Interference Radar Detection Threshold Level is (-64dBm) + (0) [dBi] + 1 dB= -63 dBm that had been taken into account the output power range and antenna gain. The above equipment setup was used to calibrate the conducted Radar Waveform. A vector signal generator was utilized to establish the test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

FCC ID: 2ABLK-8X4G-1V2 Page Number: 21 of 122

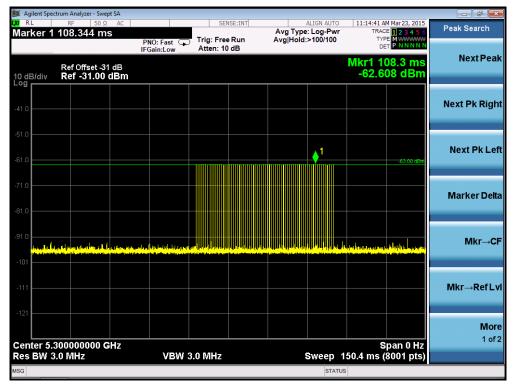


5.2.3. Cablibration Result

Radar #0 DFS detection threshold level and the burst of pulses on the Channel frequency



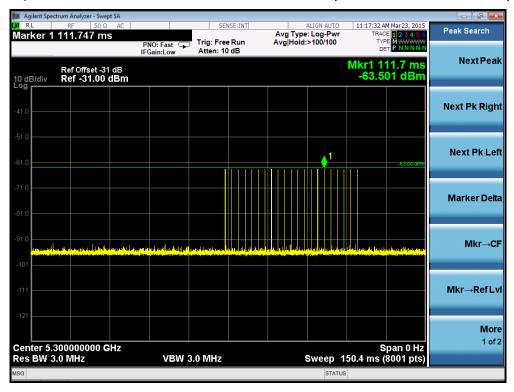
Radar #1(Test A) DFS detection threshold level and the burst of pulses on the Channel frequency



PRI = 758us and the number of pulses = 70

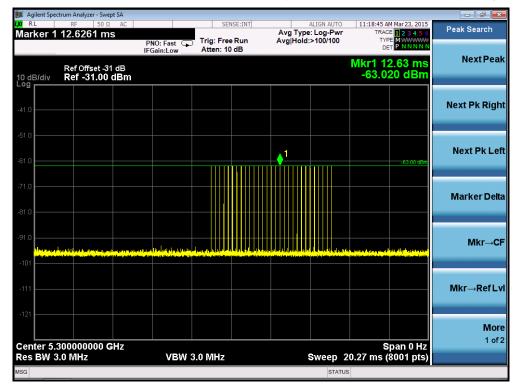


Radar #1(Test B) DFS detection threshold level and the burst of pulses on the Channel frequency



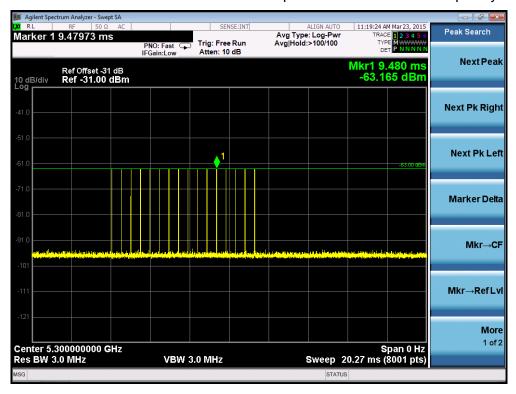
PRI = 2.575ms and the number of pulses = 21

Radar #2 DFS detection threshold level and the burst of pulses on the Channel frequency

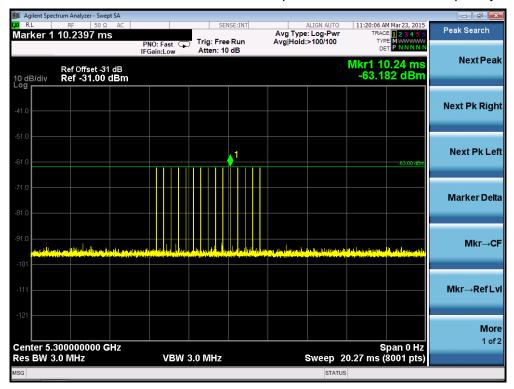




Radar #3 DFS detection threshold level and the burst of pulses on the Channel frequency

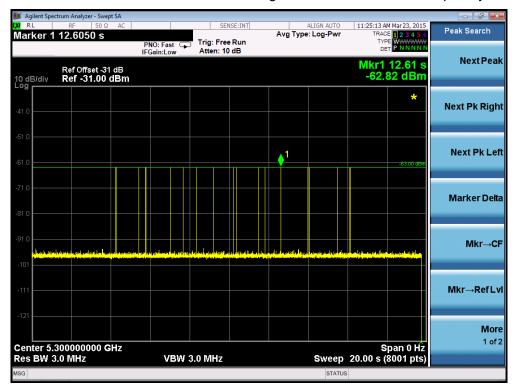


Radar #4 DFS detection threshold level and the burst of pulses on the Channel frequency

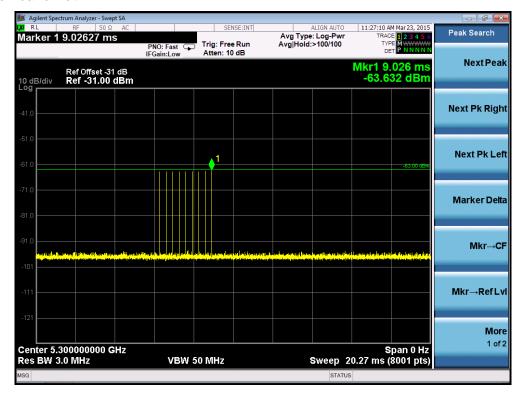




Radar #5 DFS detection threshold level and 12sec long burst on the Channel frequency



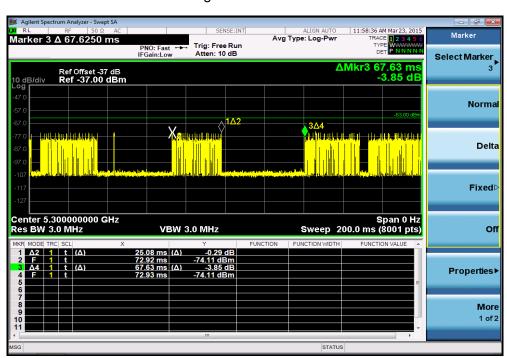
Radar #6 DFS detection threshold level and a single hop (9 pulses) on the Channel frequency within UNII detection bandwidth





5.3. Channel Loading Test Result

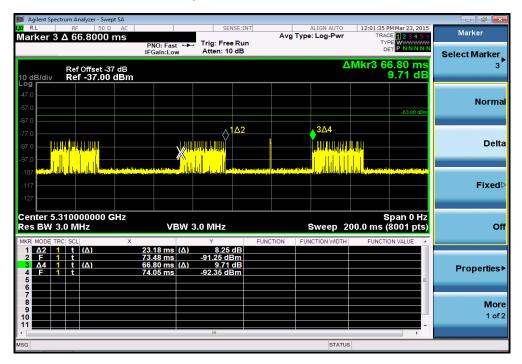
System testing was performed with the designated MPEG test file that streams full motion video from the Indoor GPON HGU to the Client in full motion video mode using the media player with the V2.61 Codec package. This file is used by IP and Frame based systems for loading the test channel during the In-service compliance testing of the U-NII device. Packet ratio = Time On/ (Time On + Off Time).



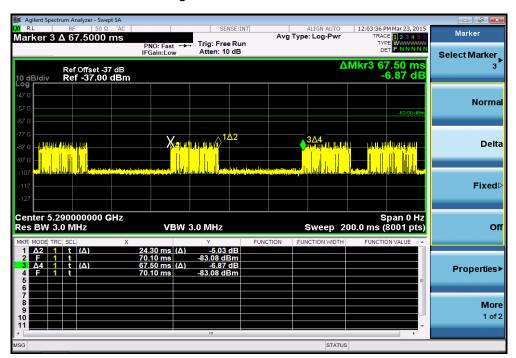
Channel Loading Plot - 802.11a-5300MHz



Channel Loading Plot - 802.11n-HT40-5310MHz



Channel Loading Plot - 802.11ac-VHT80-5290MHz



Test Mode	Packet ratio	Requirement ratio	Test Result
802.11a	37.08%	>17%	Pass
802.11n-HT40	34.70%	>17%	Pass
802.11ac-VHT80	36.00%	>17%	Pass

FCC ID: 2ABLK-8X4G-1V2 Page Number: 27 of 122



5.4. UNII Detection Bandwidth Measurement

5.4.1. Test Limit

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

5.4.2. Test Procedure

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

FCC ID: 2ABLK-8X4G-1V2 Page Number: 28 of 122



5.4.3. Test Result

EUT Frequency=5300MHz for 802.11a												
Radar Frequency			DF	S Det	ection	Trials	(1=D	etectic	n, 0=	No De	tection)	
(MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)	
5290	0	0	0	0	0	0	0	0	0	0	0%	
5291 FL	1	1	1	1	1	1	1	1	1	1	100%	
5292	1	1	1	1	1	1	1	1	1	1	100%	
5293	1	1	1	1	1	1	1	1	1	1	100%	
5294	1	1	1	1	1	1	1	1	1	1	100%	
5295	1	1	1	1	1	1	1	1	1	1	100%	
5296	1	1	1	1	1	1	1	1	1	1	100%	
5297	1	1	1	1	1	1	1	1	1	1	100%	
5298	1	1	1	1	1	1	1	1	1	1	100%	
5299	1	1	1	1	1	1	1	1	1	1	100%	
5300	1	1	1	1	1	1	1	1	1	1	100%	
5301	1	1	1	1	1	1	1	1	1	1	100%	
5302	1	1	1	1	1	1	1	1	1	1	100%	
5303	1	1	1	1	1	1	1	1	1	1	100%	
5304	1	1	1	1	1	1	1	1	1	1	100%	
5305	1	1	1	1	1	1	1	1	1	1	100%	
5306	1	1	1	1	1	1	1	1	1	1	100%	
5307	1	1	1	1	1	1	1	1	1	1	100%	
5308	1	1	1	1	1	1	1	1	1	1	100%	
5309 FH	1	1	1	1	1	1	1	1	1	1	100%	
5310	0	0	0	0	0	0	0	0	0	0	0%	

Detection Bandwidth = FH - FL = 5309MHz - 5291MHz = 18MHz

EUT 99% Bandwidth = 16.69MHz (see note)

UNII Detection Bandwidth Min. Limit (MHz): 16.69MHz x 100% = 16.69MHz

Note: All UNII channels for this device have identical Channel bandwidths. Therefore, all DFS testing was done at 5300MHz. The 99% channel bandwidth is 16.75MHz. (See the 99% BW section of the RF report for further measurement details).

FCC ID: 2ABLK-8X4G-1V2 Page Number: 29 of 122



		EU.	T Freq	uency	/=5310	MHz f	or 802	11n-ŀ	HT40		
Radar Frequency			DF	S Det	ection	Trials	(1=D	etectic	n, 0=	No De	tection)
(MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5291	0	0	0	0	0	0	0	0	0	0	0%
5292 FL	1	1	1	1	1	1	1	1	1	1	100%
5293	1	1	1	1	1	1	1	1	1	1	100%
5294	1	1	1	1	1	1	1	1	1	1	100%
5295	1	1	1	1	1	1	1	1	1	1	100%
5296	1	1	1	1	1	1	1	1	1	1	100%
5297	1	1	1	1	1	1	1	1	1	1	100%
5298	1	1	1	1	1	1	1	1	1	1	100%
5299	1	1	1	1	1	1	1	1	1	1	100%
5300	1	1	1	1	1	1	1	1	1	1	100%
5301	1	1	1	1	1	1	1	1	1	1	100%
5302	1	1	1	1	1	1	1	1	1	1	100%
5303	1	1	1	1	1	1	1	1	1	1	100%
5304	1	1	1	1	1	1	1	1	1	1	100%
5305	1	1	1	1	1	1	1	1	1	1	100%
5306	1	1	1	1	1	1	1	1	1	1	100%
5307	1	1	1	1	1	1	1	1	1	1	100%
5308	1	1	1	1	1	1	1	1	1	1	100%
5309	1	1	1	1	1	1	1	1	1	1	100%
5310	1	1	1	1	1	1	1	1	1	1	100%
5311	1	1	1	1	1	1	1	1	1	1	100%
5312	1	1	1	1	1	1	1	1	1	1	100%
5313	1	1	1	1	1	1	1	1	1	1	100%
5314	1	1	1	1	1	1	1	1	1	1	100%
5315	1	1	1	1	1	1	1	1	1	1	100%
5316	1	1	1	1	1	1	1	1	1	1	100%
5317	1	1	1	1	1	1	1	1	1	1	100%
5318	1	1	1	1	1	1	1	1	1	1	100%
5319	1	1	1	1	1	1	1	1	1	1	100%
5320	1	1	1	1	1	1	1	1	1	1	100%
5321	1	1	1	1	1	1	1	1	1	1	100%

FCC ID: 2ABLK-8X4G-1V2

Page Number: 30 of 122



Report No.: 1502RSU00403

5322	1	1	1	1	1	1	1	1	1	1	100%
5323	1	1	1	1	1	1	1	1	1	1	100%
5324	1	1	1	1	1	1	1	1	1	1	100%
5325	1	1	1	1	1	1	1	1	1	1	100%
5326	1	1	1	1	1	1	1	1	1	1	100%
5327	1	1	1	1	1	1	1	1	1	1	100%
5328	1	1	1	1	1	1	1	1	1	1	100%
5329 FH	1	1	1	1	1	1	1	1	1	1	100%
5330	0	0	0	0	0	0	0	0	0	0	0%

Detection Bandwidth = FH - FL = 5329MHz - 5292MHz = 37MHz

EUT 99% Bandwidth = 36.26MHz (see note)

UNII Detection Bandwidth Min. Limit (MHz): 36.26MHz x 100% = 36.26MHz

Note: All UNII channels for this device have identical Channel bandwidths. Therefore, all DFS testing was done at 5310MHz. The 99% channel bandwidth is 36.30MHz. (See the 99% BW section of the RF report for further measurement details).



		EUT	Frequ	ency=	-5290N	/IHz fo	r 802.	11ac-V	/HT80		
Radar Frequency			DF	S Det	ection	Trials	(1=D	etectic	n, 0=	No De	tection)
(MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5249	0	0	0	0	0	0	0	0	0	0	0%
5250 FL	1	1	1	1	1	1	1	1	1	1	100%
5251	1	1	1	1	1	1	1	1	1	1	100%
5252	1	1	1	1	1	1	1	1	1	1	100%
5253	1	1	1	1	1	1	1	1	1	1	100%
5254	1	1	1	1	1	1	1	1	1	1	100%
5255	1	1	1	1	1	1	1	1	1	1	100%
5256	1	1	1	1	1	1	1	1	1	1	100%
5257	1	1	1	1	1	1	1	1	1	1	100%
5258	1	1	1	1	1	1	1	1	1	1	100%
5259	1	1	1	1	1	1	1	1	1	1	100%
5260	1	1	1	1	1	1	1	1	1	1	100%
5261	1	1	1	1	1	1	1	1	1	1	100%
5262	1	1	1	1	1	1	1	1	1	1	100%
5263	1	1	1	1	1	1	1	1	1	1	100%
5264	1	1	1	1	1	1	1	1	1	1	100%
5265	1	1	1	1	1	1	1	1	1	1	100%
5266	1	1	1	1	1	1	1	1	1	1	100%
5267	1	1	1	1	1	1	1	1	1	1	100%
5268	1	1	1	1	1	1	1	1	1	1	100%
5269	1	1	1	1	1	1	1	1	1	1	100%
5270	1	1	1	1	1	1	1	1	1	1	100%
5271	1	1	1	1	1	1	1	1	1	1	100%
5272	1	1	1	1	1	1	1	1	1	1	100%
5273	1	1	1	1	1	1	1	1	1	1	100%
5274	1	1	1	1	1	1	1	1	1	1	100%
5275	1	1	1	1	1	1	1	1	1	1	100%
5276	1	1	1	1	1	1	1	1	1	1	100%
5277	1	1	1	1	1	1	1	1	1	1	100%



Report No.: 1502RSU00403

5278	1	1	1	1	1	1	1	1	1	1	100%
5279	1	1	1	1	1	1	1	1	1	1	100%
5280	1	1	1	1	1	1	1	1	1	1	100%
5281	1	1	1	1	1	1	1	1	1	1	100%
5282	1	1	1	1	1	1	1	1	1	1	100%
5283	1	1	1	1	1	1	1	1	1	1	100%
5284	1	1	1	1	1	1	1	1	1	1	100%
5285	1	1	1	1	1	1	1	1	1	1	100%
5286	1	1	1	1	1	1	1	1	1	1	100%
5287	1	1	1	1	1	1	1	1	1	1	100%
5288	1	1	1	1	1	1	1	1	1	1	100%
5289	1	1	1	1	1	1	1	1	1	1	100%
5290	1	1	1	1	1	1	1	1	1	1	100%
5291	1	1	1	1	1	1	1	1	1	1	100%
5292	1	1	1	1	1	1	1	1	1	1	100%
5293	1	1	1	1	1	1	1	1	1	1	100%
5294	1	1	1	1	1	1	1	1	1	1	100%
5295	1	1	1	1	1	1	1	1	1	1	100%
5296	1	1	1	1	1	1	1	1	1	1	100%
5297	1	1	1	1	1	1	1	1	1	1	100%
5298	1	1	1	1	1	1	1	1	1	1	100%
5299	1	1	1	1	1	1	1	1	1	1	100%
5300	1	1	1	1	1	1	1	1	1	1	100%
5301	1	1	1	1	1	1	1	1	1	1	100%
5302	1	1	1	1	1	1	1	1	1	1	100%
5303	1	1	1	1	1	1	1	1	1	1	100%
5304	1	1	1	1	1	1	1	1	1	1	100%
5305	1	1	1	1	1	1	1	1	1	1	100%
5306	1	1	1	1	1	1	1	1	1	1	100%
5307	1	1	1	1	1	1	1	1	1	1	100%
5308	1	1	1	1	1	1	1	1	1	1	100%
5309	1	1	1	1	1	1	1	1	1	1	100%
5310	1	1	1	1	1	1	1	1	1	1	100%
5311	1	1	1	1	1	1	1	1	1	1	100%
-											





5312	1	1	1	1	1	1	1	1	1	1	100%
5313	1	1	1	1	1	1	1	1	1	1	100%
5314	1	1	1	1	1	1	1	1	1	1	100%
5315	1	1	1	1	1	1	1	1	1	1	100%
5316	1	1	1	1	1	1	1	1	1	1	100%
5317	1	1	1	1	1	1	1	1	1	1	100%
5318	1	1	1	1	1	1	1	1	1	1	100%
5319	1	1	1	1	1	1	1	1	1	1	100%
5320	1	1	1	1	1	1	1	1	1	1	100%
5321	1	1	1	1	1	1	1	1	1	1	100%
5322	1	1	1	1	1	1	1	1	1	1	100%
5323	1	1	1	1	1	1	1	1	1	1	100%
5324	1	1	1	1	1	1	1	1	1	1	100%
5325	1	1	1	1	1	1	1	1	1	1	100%
5326	1	1	1	1	1	1	1	1	1	1	100%
5327	1	1	1	1	1	1	1	1	1	1	100%
5328	1	1	1	1	1	1	1	1	1	1	100%
5329	1	1	1	1	1	1	1	1	1	1	100%
5330 FH	1	1	1	1	1	1	1	1	1	1	100%
5331	0	0	0	0	0	0	0	0	0	0	0%

Detection Bandwidth = FH - FL = 5330MHz - 5250MHz = 80MHz

EUT 99% Bandwidth = 72.24MHz (see note)

UNII Detection Bandwidth Min. Limit (MHz): 72.24MHz x 100% = 72.24MHz

Note: All UNII channels for this device have identical Channel bandwidths. Therefore, all DFS testing was done at 5290MHz. The 99% channel bandwidth is 75.00MHz. (See the 99% BW section of the RF report for further measurement details).

Report No.: 1502RSU00403



5.5. Initial Channel Availability Check Time Measurement

5.5.1. Test Limit

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

5.5.2. Test Procedure

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

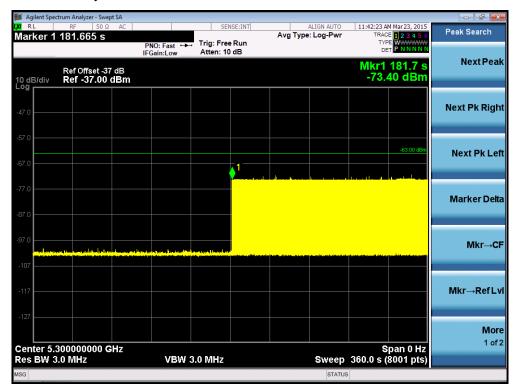
FCC ID: 2ABLK-8X4G-1V2 Page Number: 35 of 122



5.5.3. Test Result

The EUT does not transmit any beacon or data transmissions until at least 1 minute after the completion of the power-on cycle (121.7 sec). Initial beacons/data transmissions are indicated by marker 1 (181.7 sec).

Initial Channel Availability Check Time for 802.11a



Report No.: 1502RSU00403



5.6. Radar Burst at the Beginning of the Channel Availability Check Time Measurement

5.6.1. Test Limit

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

5.6.2. Test Procedure

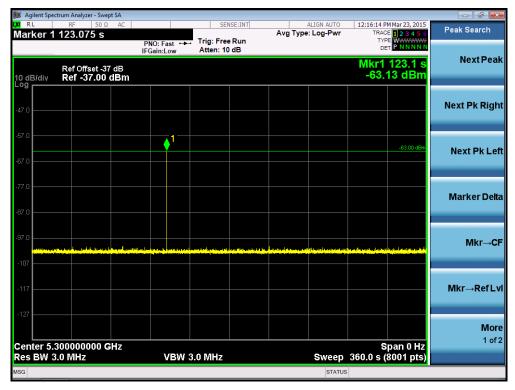
- The steps below define the procedure to verify successful radar detection on the selected Channel during a period equal to the Channel Availability Check Time and avoidance of operation on that Channel when a radar Burst with a level equal to the DFS Detection Threshold + 1 dB occurs at the beginning of the Channel Availability Check Time.
- 2. The EUT is in completion power-up cycle (from T0 to T1). T1 denotes the instant when the EUT has completed its power-up sequence. The Channel Availability Check Time commences at instant T1 and will end no sooner than T1 + 60 seconds. A single Burst of one of Short Pulse Radar Types 0-4 at DFS Detection Threshold + 1 dB will commence within a 6 second window starting at T1.
- 3. Visual indication on the EUT of successful detection of the radar Burst will be recorded and reported. Observation of emissions at 5300MHz (for 802.11a) will continue for 2.5 minutes after the radar Burst has been generated. Verify that during the 2.5 minutes measurement window no EUT transmissions occurred at 5300MHz (for 802.11a).

FCC ID: 2ABLK-8X4G-1V2 Page Number: 37 of 122



5.6.3. Test Result

Radar Burst at the Beginning of the Channel Availability Check Time for 802.11a



Report No.: 1502RSU00403



5.7. Radar Burst at the End of the Channel Availability Check Time Measurement

5.7.1. Test Limit

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

5.7.2. Test Procedure

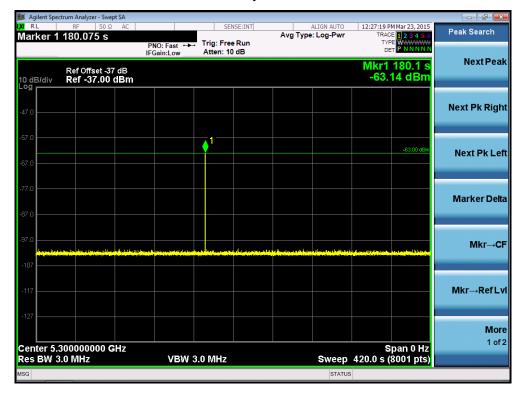
- The steps below define the procedure to verify successful radar detection on the selected Channel during a period equal to the Channel Availability Check Time and avoidance of operation on that Channel when a radar Burst with a level equal to the DFS Detection Threshold + 1 dB occurs at the beginning of the Channel Availability Check Time.
- 2. The EUT is powered on at T0. T1 denotes the instant when the EUT has completed its power-up sequence. The Channel Availability Check Time commences at instant T1 and will end no sooner thanT1 + 60 seconds. A single Burst of one of Short Pulse Radar Types 0-4 at DFS Detection Threshold + 1 dB will commence within a 6 second window starting at T1+ 54 seconds.
- 3. Visual indication on the EUT of successful detection of the radar Burst will be recorded and reported. Observation of emissions at 5300MHz (for 802.11a) will continue for 2.5 minutes after the radar Burst has been generated. Verify that during the 2.5 minutes measurement window no EUT transmissions occurred at 5300MHz (for 802.11a).

FCC ID: 2ABLK-8X4G-1V2 Page Number: 39 of 122



5.7.3. Test Result

Radar Burst at the End of the Channel Availability Check Time for 802.11a





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

5.8.1. Test Limit

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

5.8.2. Test Procedure Used

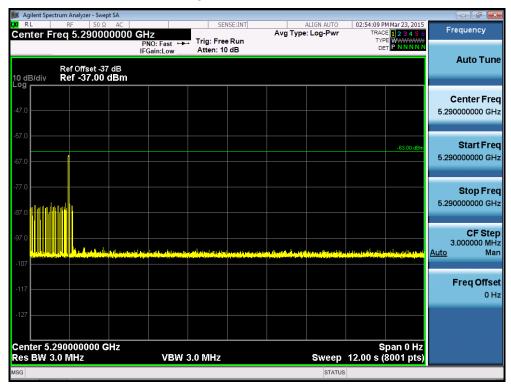
- 1. The test should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0.
- 2. When the radar burst with a level equal to the DFS Detection Threshold + 1dB is generated on the Operating Channel of the U-NII device. A U-NII device operating as a Master Device will associate with the Client Device at Channel. Stream the MPEG test file from the Master Device to the Client Device on the selected Channel for the entire period of the test. At time T0 the Radar Waveform generator sends a Burst of pulses for each of the radar types at Detection Threshold + 1dB.
- Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel.
 Measure and record the transmissions from the EUT during the observation time (Channel Move Time).
- 4. Measurement of the aggregate duration of the Channel Closing Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: Dwell (1.5ms) = S (12 sec) / B (8000); where Dwell is the dwell time per spectrum analyzer sampling bin, S is the sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: 80MHz: C (0 ms) = N (0) X Dwell (1.5 ms); where C is the Closing Time, N is the number of spectrum analyzer sampling bins showing a U-NII transmission and Dwell is the dwell time per bin.
- 5. Measure the EUT for more than 30 minutes following the channel close/move time to verify that the EUT does not resume any transmissions on this Channel.

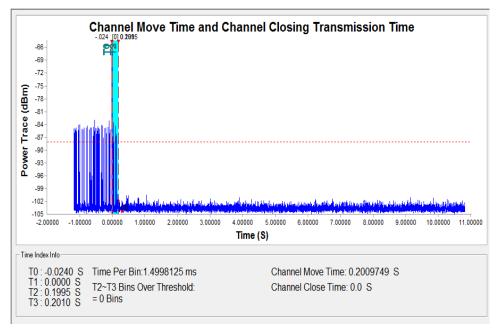
FCC ID: 2ABLK-8X4G-1V2 Page Number: 41 of 122



5.8.3. Test Result

Channel Move Time and Channel Closing Transmission Time for 802.11ac-VHT80







Non-Occupancy Period for 802.11a



Parameter	Test Result	Limit
	Type 0	
Channel Move Time (s)	0.200s	<10s
Channel Closing Transmission Time (ms) (Note)	0ms	< 60ms
Non-Occupancy Period (min)	≥ 30min	≥ 30 min

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



5.9. Statistical Performance Check Measurement

5.9.1. Test Limit

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

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

The percentage of successful detection is calculated by:

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

5.9.2. Test Procedure

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

FCC ID: 2ABLK-8X4G-1V2 Page Number: 44 of 122



5.9.3. Test Result

Statistical Performance Check for 802.11a

Radar Type 1 - Radar Statistical Performance

Trail #	Test Freq.	Pulse Width	PRI (us)	Pulses / Burst	1=Detection
	(MHz)	(us)			0=No Detection
1	5291	1	918	58	1
2	5291	1	518	102	1
3	5291	1	698	76	1
4	5291	1	838	63	1
5	5291	1	3066	18	1
6	5291	1	638	83	1
7	5291	1	578	92	1
8	5291	1	818	65	1
9	5291	1	798	67	1
10	5291	1	758	70	1
11	5291	1	558	95	1
12	5291	1	718	74	1
13	5291	1	778	68	1
14	5291	1	738	72	1
15	5291	1	938	57	1
16	5291	1	718	74	1
17	5291	1	2761	20	1
18	5291	1	2136	25	1
19	5291	1	3054	18	1
20	5291	1	936	57	1
21	5291	1	571	93	1
22	5291	1	1219	44	1
23	5291	1	2131	25	1
24	5291	1	1832	29	1
25	5291	1	1648	33	1
26	5291	1	834	64	1
27	5291	1	2684	20	1
28	5291	1	3024	18	1
29	5291	1	2799	19	1
30	5291	1	527	101	1
	Det	ection Percentage	(%)		100%



Radar Type 2 - Radar Statistical Performance

Trail #	Test Freq.	Pulse Width	PRI (us)	Pulses / Burst	1=Detection
	(MHz)	(us)			0=No Detection
1	5300	3.0	151	27	1
2	5300	3.0	230	27	1
3	5300	4.3	184	27	1
4	5300	2.2	218	23	1
5	5300	4.7	178	26	1
6	5300	1.9	184	25	1
7	5300	3.4	185	24	1
8	5300	3.0	212	26	1
9	5300	5.0	170	25	1
10	5300	2.3	168	27	1
11	5300	3.8	226	26	1
12	5300	2.9	189	25	1
13	5300	5.0	176	29	1
14	5300	1.9	187	26	1
15	5300	4.7	218	28	1
16	5300	4.2	184	26	1
17	5300	3.1	215	29	1
18	5300	3.0	196	23	1
19	5300	2.5	176	26	1
20	5300	3.9	154	24	1
21	5300	1.6	213	27	1
22	5300	2.9	172	27	1
23	5300	4.3	156	29	1
24	5300	3.3	219	27	1
25	5300	2.8	230	27	1
26	5300	2.3	167	24	1
27	5300	3.7	230	26	1
28	5300	4.2	186	29	1
29	5300	1.0	158	27	1
30	5300	2.3	193	29	1
	Det	ection Percentage	(%)		100%



Radar Type 3 - Radar Statistical Performance

Trail #	Test Freq.	Pulse Width	PRI (us)	Pulses / Burst	1=Detection
	(MHz)	(us)			0=No Detection
1	5309	8.9	328	18	1
2	5309	8.1	462	17	1
3	5309	6.6	396	16	1
4	5309	8.7	344	17	1
5	5309	10.0	325	16	1
6	5309	6.1	471	16	1
7	5309	6.2	290	16	1
8	5309	9.7	408	17	1
9	5309	6.3	395	18	1
10	5309	7.3	453	18	1
11	5309	8.4	399	17	1
12	5309	7.2	368	18	1
13	5309	6.9	499	18	1
14	5309	7.2	491	18	1
15	5309	9.3	260	17	1
16	5309	7.6	292	17	1
17	5309	9.0	306	17	1
18	5309	8.0	261	16	1
19	5309	7.0	334	17	1
20	5309	6.3	347	18	1
21	5309	6.8	460	17	1
22	5309	6.7	294	16	1
23	5309	8.8	431	16	1
24	5309	8.3	257	16	0
25	5309	9.9	442	18	1
26	5309	9.1	494	18	1
27	5309	9.9	286	18	1
28	5309	8.8	348	18	1
29	5309	9.5	408	16	1
30	5309	6.5	500	16	1
	Det	ection Percentage	(%)		96.7%



Radar Type 4 - Radar Statistical Performance

Trail #	Test Freq.	Pulse Width	PRI (us)	Pulses / Burst	1=Detection
	(MHz)	(us)			0=No Detection
1	5291	14.0	363	14	1
2	5291	14.7	268	13	1
3	5291	17.8	450	14	1
4	5291	13.1	264	14	1
5	5291	17.7	251	13	1
6	5291	11.2	348	15	1
7	5291	13.6	343	16	1
8	5291	19.3	500	13	1
9	5291	15.1	497	15	1
10	5291	13.0	376	16	1
11	5291	14.2	302	12	1
12	5291	13.5	281	12	1
13	5291	20.0	440	12	1
14	5291	12.7	258	16	1
15	5291	15.8	282	14	1
16	5291	11.8	251	15	1
17	5291	14.9	405	15	1
18	5291	12.1	388	12	1
19	5291	17.6	395	15	1
20	5291	16.9	403	15	1
21	5291	18.0	416	12	1
22	5291	14.8	472	12	1
23	5291	13.0	301	13	1
24	5291	14.0	379	16	1
25	5291	14.0	283	12	1
26	5291	15.1	338	15	1
27	5291	12.4	393	13	1
28	5291	18.1	337	15	1
29	5291	19.4	387	12	1
30	5291	16.1	283	15	0
	Det	ection Percentage	(%)		96.7%

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

waveforms is as follows: $\frac{P_d 1 + P_d 2 + P_d 3 + P_d 4}{4} = (100\% + 100\% + 96.7\% + 96.7\%)/4 = 98.35\% (>80\%)$

FCC ID: 2ABLK-8X4G-1V2 Page Number: 48 of 122





Radar Type 5 - Radar Statistical Performance

Trail #	Test Freq.	1=Detection	Trail #	Test Freq.	1=Detection
	(MHz)	0=No Detection		(MHz)	0=No Detection
1	5492	1	16	5507	1
2	5493	1	17	5508	1
3	5494	1	18	5492	1
4	5495	1	19	5493	1
5	5496	1	20	5494	1
6	5497	1	21	5495	1
7	5498	1	22	5496	1
8	5499	1	23	5497	1
9	5500	1	24	5498	1
10	5501	1	25	5499	1
11	5502	1	26	5500	1
12	5503	1	27	5501	1
13	5504	1	28	5502	1
14	5505	1	29	5503	1
15	5506	1	30	5504	1
	Det	ection Percentage	(%)		100%

				туре	5 Radar V	vavelonii	_'						
aveform Num = 1 um of Bursts = 20 um of Bursts = (ac) = 600000 urst two off Time # Chirp PW Pulse 1 Pulse 2 Pulse 3 Start Loc Start Burst End Burst													
rst	(us) 265817	# Pulses	(MHz)	(us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	(us)	Interval(us)	Interval (us)			
	693820	1	5	90	1423	0	0	265817	0	599999			
	725012	3	10	60	1050	1426	1051	961060	600000	1199999			
	658160	2	18	90	1656	1235	0	1689599	1200000	1799999			
	415482	2	15	65	1180	1493	0	2350650	1800000	2399999			
	300869	2	13	90	1594	1319	0	2768805	2400000	2999999			
		3	20	65	1353	1680	1992	3072587	3000000	3599999			
	891087	3	10	90	1626	1202	1220	3968699	3600000	4199999			
	307715	1	9	75	1432	0	0	4280462	4200000	4799999			
	999311	2	16	95	1264	1939	0	5281205	4800000	5399999			
0	290004	1	18	70	1572	0	0	5574412	5400000	5999999			
1	708697	3	12	70	1650	1689	1148	6284681	6000000	6599999			
2	405512	1	14	75	1856	0	0	6694680	6600000	7199999			
3	590693	3	12	60	1476	1126	1840	7287229	7200000	7799999			
4	557156	2	8	95	1888	1520	0	7848827	7800000	8399999			
5	963122	1	18	80	1244	0	0	8815357	8400000	8999999			
5	255199	3	9	85	1472	1731	1374	9071800	9000000	9599999			
7	703288	1	8	75	1077	0	0	9779665	9600000	10199999			
8	1013435	1	18	65	1857	0	0	10794177	10200000	10799999			
9	292189	1	9	80	1318	0	0	11088223	10800000	11399999			
	366637	1	15	100	1519	0	0	11456178	11400000	11999999			



				Тур	e 5 Radar	Waveforn	n_2			
Form N	ատ = 2									
of Bur	sts = 10 sval (us)= 1200	0000								
t	Off Time	#	Chirp	₽₩	Pulse 1	Pulse 2	Pulse 3	Start Loc	Start Burst	End Burst
	(us) 1128156	Pulses	(MHz)	(us)	Pri(us)	Pri(us)	Pri(us)	(us)	Interval (us)	Interval (us)
		1	16	70	1957	0	0	1128156	0	1199999
	293495	2	8	50	1180	1855	0	1423608	1200000	2399999
	1982475	1	20	70	1606	0	0	3409118	2400000	3599999
	213673	1	5	70	1898	0	0	3624397	3600000	4799999
	1989033	2	8	85	1231	1197	0	5615328	4800000	5999999
	840202									
	903240	1	18	100	1264	0	0	6457958	6000000	7199999
	1305912	1	8	100	1014	0	0	7362462	7200000	8399999
	1366601	3	14	95	1483	1247	1113	8669388	8400000	9599999
		1	5	55	1980	0	0	10039832	9600000	10799999
	1243848	2	8	50	1166	1632	0	11285660	10800000	11999999
l numb Helelelele	er of pulses in	n waveform = 1 Helelelelelelelelele	L5 Islanda (alaka)			okok:				
				_			_			
				Тур	e 5 Radar	Waveforn	n_3			
form N	ium = 3									
of Bur t Inte	sts = 16 rval (us)= 7500	000								
t	Off Time	# 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)
	413697	1	17	100	1627	0	0	413697	0	749999
	665435 644293	1	12	50	1391	0	0	1080759	750000	1499999
	564481	1	5	75	1689	0	0	1726443	1500000	2249999
	904885	3	11	90	1691	1181	1260	2292613	2250000	2999999
	784751	2	18	60	1406	1617	0	3201630	3000000	3749999
	1187422	3	20	95	1111	1089	1469	3989404	3750000	4499999
	356388	3	17	80	1179	1579	1730 0	5180495	4500000	5249999
	772471	2	5 6	70 65	1407 1605	1972 0	0	5541371 6317221	5250000 6000000	5999999 6749999
	627416	1	16	75	1350	0	0	6946242	6750000	7499999
	578674	3	20	90	1363	1606	1971	7526266	7500000	8249999
	1057715	1	9	95	1638	0	0	8588921	8250000	8999999
	580973	3	18	100	1005	1914	1102	9171532	9000000	9749999
	817144 1206469	2	19	70	1938	1030	0	9992697	9750000	10499999
	314975	3	8	100	1946	1455	1578	11202134	10500000	11249999
Lnumb	er of pulses in	2 waveform = 3	14 32	55	1539	1278	0	11522088	11250000	11999999
 - - - - -						tot :				
				Тур	e 5 Radar	Waveforn	n_4			
Corm N	ium = 4									
of Bur	sts = 11 rval (us)= 1090	909								
t	Off Time	#	Chirp (MHz)	₽₩	Pulse 1	Pulse 2	Pulse 3	Start Loc	Start Burst	End Burst
	(us) 684360	Pulses	(MHz)	(us)	Pri(us)	Pri(us)	Pri(us)	(us)	Interval (us)	Interval (us)
	1176067	1	8	75	1856	0	0	684360	0	1090908
		3	11	100	1167	1719	1816	1862283	1090909	2181817
	405340	1	10	60	1436	0	0	2272325	2181818	3272726
	1569769	2	9	65	1014	1287	0	3843530	3272727	4363635
	603905	1	9	100	1202	0	0	4449736	4363636	5454544
	1320672									
	1789051	2	8	75	1489	1541	0	5771610	5454545	6545453
	977663	2	19	70	1922	1265	0	7563691	6545454	7636362
		2	5	50	1523	1858	0	8544541	7636363	8727271
	537211	1	19	60	1478	0	0	9085133	8727272	9818180
	1378784	1	13	70	1258	0	0	10465395	9818181	10909089
	1186551	2	11	85	1422	1201	0	11653204	10909090	11999998



				Туре	5 Radar W	Vaveform	1_5			
weform Nur	m = 5									
m of burst rst Interv rst	m = 5 ts = 20 val (us)= 60000 Off Time (us)	00 # Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2	Pulse 3	Start Loc (us)	Start Burst En	d Burst
	(us) 19741	Pulses 1	(MHz) 19	(us) 95	Pri (us) 1744	Pri(us)	Pri(us)	(us) 19741		terval (us) 99999
	639175	2	16	95	1233	1207	0	660660		19999
	1066796	1	8	100	1679	0	0	1729896		799999
	554364	3	15	100	1699	1162	1986	2285939		399999
	331260	2	17	60	1834	1366	0	2622046		999999
	593386	1	20	100	1617	0	0	3218632		599999
	426033	1	15	95	1243	0	0	3646282	3600000 4	199999
	965182	3	17	65	1666	1089	1543	4612707	4200000 4	799999
	599109 297062	2	17	95	1675	1726	0	5216114	4800000 5	399999
	752307	3	19	60	1850	1292	1102	5516577	5400000 5	999999
L	579542	2	6	60	1114	1972	0	6273128	6000000 6	599999
:	343512	2	16	55	1165	1880	0	6855756	6600000 7	199999
•	984143	3	14	90	1271	1147	1737	7202313		799999
	413224	1	15	60	1067	0	0	8190611		399999
5	582278	2	5	75	1839	1987	0	8604902		999999
3	940345	2	20	85 90	1267	1327	0	9191006		599999
7	227731	1	10 7	90 50	1245 1536	0	0	10133945		0199999
; ,	932508	1	7 16	100	1536 1843	0	0	10362921		0799999 1399999
	383971	1	15	65	1245	0	0	11682779		1999999
al number	r of pulses in	waveform = 3	5 11111111111111		1240		-			
						loveform	. 6			
				туре	5 Radar V	vaverorm	1_0			
reform Nu	om = 6 :ts = 11									
st Inter	val (us)= 1090	909	a	721/				a	a	
st	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	
	217208									
	1927659	3	17	50	1941	1556	1707	217208	0	1090908
		1	18	100	1986	0	0	2150071	1090909	2181817
	390235	2	14	50	1964	1709	0	2542292	2181818	3272726
	1014578									
	1551961	3	11	90	1920	1865	1171	3560543	3272727	4363635
		2	13	100	1616	1618	0	5117460	4363636	5454544
	722929									
	1021057	2	18	70	1166	1995	0	5843623	5454545	6545453
		2	16	70	1792	1211	0	6867841	6545454	7636362
	1260205	1	12	70	1116	0	0	8131049	7636363	8727271
	817349									
	1642958	3	11	80	1024	1091	1737	8949514	8727272	9818180
	1047900	3	14	70	1399	1188	1599	10596324	9818181	10909089
ı			7	60	1152	0	0	11970203		11999998
	1369693	1		OU		v	V	119 (0203	10808080	1199999
:al numbe:	er of pulses in	1 n waveform =	23							
:al numbe:	er of pulses in	n waveform =	23			**				
al numbe	er of pulses in	n waveform =	23				. 7			
al numbe	er of pulses in	n waveform =	23				1_7			
al numbe	er of pulses in	n waveform = 	23				ı_7			
al numbe	er of pulses in chalched the ch	n waveform = Hebberekelelelelelelelelelelelelelelelelelel	23	Туре	• 5 Radar V	Vaveform	Pulse 3	Start Lo	c Start Burs	et End Burst
al numbe	or of pulses in the state of th	n waveform = Hebbshickshickshickshickshickshickshickshick	23 ************************************	Type	5 Radar W	Vaveform Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Lo.	Interval (u	s) Interval(u
al numbe	er of pulses in control pulses	n waveform = 	23 Helichteleteleteleteleteleteleteleteleteletel	Type	2 5 Radar W	Pulse 2 Pri(us)	Pulse 3 Pri(us) O	Start Lo (us) 606568	Interval (u 0	s) Interval (u: 705881
al numbe	or of pulses in the state of th	n waveform = Heldelelelelelelelelelelelelelelelelelel	Chirp (Miz) 18	Type Fw (us) 80 90	Pulse 1 Pri(us) 1084 1386	Pulse 2 Pri(us) 0	Pulse 3 Pri(us) O 1999	Start Lo. (uz) 506568 1361250	Interval (u 0 705882	s) Interval (u: 705881 1411763
al number	or of pulses in the state of th	n waveform = +++++++++++++++++++++++++++++++++++	Chirp (Mis) 19	FW (us) 80 90 65	Pulse 1 Pri(us) 1084 1386 1161	Pulse 2 Pri(us) 0 1912 1831	Pulse 3 Pri(us) 0 1999 1065	Start Lo (us) 606568 1361250 1812115	Interval (u 0 705882 1411764	nterval(u 705881 1411763 2117645
al number	or of pulses in the state of th	n waveform = 	23 Chirp (MHz) 18 19 5	PW (us) 80 90 65	Pulse 1 Pri(us) 1084 1386 1161 1584	Pulse 2 Pri (us) 0 1912 1831 1729	Pulse 3 Pri(us) 0 1999 1065	Start Lo. (us) 606568 1361250 1812115 2602518	Interval (u 0 705882 1411764 2117646	705881 1411763 2117645 2823527
al number	or of pulses in the state of th	n waveform = +++++++++++++++++++++++++++++++++++	23 Chirp (MHz) 18 19 5 8 19	PW (us) 80 90 65 95	Pulse 1 Pri(us) 1084 1386 1161 1584 1586	Pulse 2 Pri(us) 0 1912 1831 1729	Pulse 3 Pri(us) O 1999 1065 O	Start Lo. (us) 606568 1361250 1812115 2602518 3479583	Interval (u 0 705882 1411764 2117646 2823528	(a) Interval(u 705881 1411763 2117645 2823527 3529409
al number	um = 7 rts = 17 rval (us) = 7058 753598 445568 7536346 873752	n waveform = ***********************************	Chirp (MHz) 19 5 8 19 20	Fw (us) 80 90 65 95 100 95	Pulse 1 Pri(us) 1084 1386 1161 1584 1586 1504	Pulse 2 Px1(us) 0 1912 1831 1729 0 1870	Pulse 3 Pri(us) 0 1999 1065 0 0	Start Lo. (us) 606568 1361250 1812115 2602518 3479583 4146826	Interval (u 0 705882 1411764 2117646 2829528 3529410	705381 1411763 2117645 2823527 3529409 4235291
al number	m = 7 pts = 17 vval (us) = 7056 606568 753598 445568 786346 873752 665657	n waveform =	Chirp (Miz) 19 5 8 19 20 5	FW (us) 80 90 65 95 100 95 90	Pulse 1 Pri(us) 1084 1396 1161 1584 1586 1504 1772	Pulse 2 Pri(us) 0 1912 1831 1729 0 1870 1356	Pulse 3 Pri(us) 0 1999 1065 0 0	Start Lo. (uz) 606568 1361250 1812115 2602518 3479583 4146826 4363656	Interval (u 0 705882 1411764 2117646 2823528 3529410 4235292	705881 1411763 2117645 2823527 3529409 4235291 4941173
al number	or of pulses in the state of th	n waveform =	Chirp (MHz) 19 5 8 19 20 5	FW (us) 80 90 65 95 100 95 90 75	Pulse 1 Pri(us) 1084 1386 1161 1584 1596 1604 1772 1337	Pulse 2 Pri(us) 0 1912 1831 1729 0 1870 1366 1627	Pulse 3 Pri(us) 0 1999 1065 0 0 1927	Start Lo. (us) 606568 1361250 1812115 2602518 3479683 4146826 4363656 5451160	Interval (u 0 705882 1411764 2117646 2823528 3529410 4235292 4941174	705881 1411763 2117645 2823527 3529409 4235291 4941173 5647055
al numbe	or of pulses in the state of th	n waveform =	23 Chirp (MHz) 18 19 5 8 19 20 5 16 18	FW (us) 80 90 65 95 100 95 90 75	Pulse 1 Pri(us) 1084 1386 1161 1584 1586 1504 1772 1337	Pulse 2 Pri (us) 0 1912 1831 1729 0 1870 1366 1627 1788	Pulse 3 Pri(us) 0 1999 1065 0 0 0 1927 1022	Start Lo. (us) 606568 1361250 1812115 2602518 3479583 4146826 4366566 5451160 6224841	Interval (u 0 706882 1411764 2117646 2823528 3529410 4235292 4941174 5647056	705881 1411763 2117645 2823527 3529409 4235291 4941173 5647055 6352937
al numbe	m = 7 rts = 17 rval (us) = 7058 753598 445568 753598 445568 753598 1082449	######################################	Chirp (MHz) 19 5 8 19 20 5 16 18	Fw (us) 80 90 65 100 95 90 75 60 65	Pulse 1 Pri(us) 1084 1386 1161 1584 1586 1504 1772 1337 1973 1200	Pulce 2 Pri(ue) O 1912 1831 1729 O 1870 1366 1627 1788 1544	Pulse 3 Pri(us) 0 1999 1065 0 0 0 1927 1022 1401	Start Lo. (us) 606568 1361250 1812115 2602518 3479583 4146826 4363656 5451160 6224841 6445482	Interval (u 0 705882 1411764 2117646 2823528 3529410 4235292 4941174 5647056 6352938	7058819
al number	m = 7 pts = 17 pts = 17 pts = 17 pts = 17 pts = 506668 p60668 p60668 p873752 p66667 p13466 p68646 p7839696 p783986 p78398	######################################	Chirp (Miz) 19 5 8 19 20 5 16 18 18 12	FW (us) 80 90 65 95 100 95 60 55 75	Pulse 1 Pri(us) 1084 1386 1161 1584 1586 1504 1772 1337 1973 1200	Pulse 2 Pri (us) 0 0 1912 1831 1729 0 1870 1356 1627 1788 1544	Pulse 3 Pri(us) 0 1999 1065 0 0 0 1927 1022 1401 0	Start Lo. (us) 606568 1361250 1812115 2602518 3479583 4146826 4363656 5451160 6224841 6445482 7450049	Interval (u 0 705882 1411764 2117646 2823528 3529410 4235292 4941174 5647056 6382938 7058820	Therval(u, 705881 1411763 2117645 2823527 3529409 4235291 4941173 5647055 6352937 7058819 7764701
al number	m = 7 tr = 17 tr = 17 val (us) = 7058 Off Time (us) 606568 753598 445568 786346 873752 665657 213456 1082449 769695 215479	######################################	Chirp (Miz) 18 19 5 8 19 20 5 16 18 18	FW (us) 80 90 65 95 100 95 90 75 60 55 75	Pulse 1 Pri(us) 1084 1386 1161 1584 1586 1504 1772 1337 1973 1200 1194	Pulse 2 Pri(us) 0 1912 1831 1729 0 1870 1356 1627 1788 1544 1657	Pulse 3 Pri(us) 0 1999 1065 0 0 1927 1022 1401 0	Start Lo. (us) 606568 1361250 1812115 2602518 3479583 4146826 4363656 5451160 6224841 6445482 7450049 8434633	Interval (u 0 705882 1411764 2117646 2823528 3529410 4235292 4941174 5647056 6352938 7058820 7764702	Theteval(u: 705881 1411763 2117645 2823527 3529409 4235291 4941173 5647055 6352937 7058819 7764701 8470583
al number	or of pulses in the state of th	######################################	23 Chirp (MHz) 18 19 5 8 19 20 5 16 18 18 12 11	Pw (us) 80 90 65 95 100 95 90 65 75 90 65	Pulse 1 Pri(us) 1084 1386 1161 1684 1686 1604 1772 1337 1973 1200 1194 1806	Pulse 2 Pri (us) 0 1912 1831 1729 0 1870 1386 1627 1788 1544 1657 1027 1978	Pulse 3 Pri(us) 0 1989 1065 0 0 1927 1022 1401 0 1381 1728	Start Lo- (us) 606568 1361250 1812115 2602518 3479583 4146826 4363656 5451160 6224841 6445482 7450049 8434633	Interval (u 0 706882 1411764 2117646 2823528 3529410 4235292 4941174 5647056 635293 7058820 7764702 8470584	705881 1411763 2117645 2823527 3529409 4235291 4941173 5647055 6352937 7058819 7764701 8470583 9176465
al numbe	m = 7 rts = 17 rval (us) = 7058 753598 445568 753598 445568 753598 445568 75346 873752 666657 213456 1082449 769695 216479 1001823 980352 618335	######################################	Chirp (MHz) 19 5 8 19 20 5 16 18 18 12 11 17	Fw (us) 80 90 65 95 90 65 75 90 55 95	Pulse 1 Pxi(us) 1084 1386 1161 1584 1586 1504 1772 1337 1973 1200 1194 1805 1434	Pulce 2 Pri (ue) O 1912 1831 1729 O 1870 1366 1627 1788 1544 1687 1027	Pulse 3 Pri(us) 0 1999 1065 0 0 0 1927 1022 1401 0 1381 1728 1666	Start Lo. (us) 606568 1361250 1812115 2602518 3479583 4146826 4363656 5451160 6224841 6445482 7450049 8434633 9057528 9307969	Interval (u 0 705882 1411764 2117646 2823528 3529410 4235292 4941174 5647056 6352938 7058820 7764702 8470584 9176466	705881 1411763 2117645 2823527 3529409 4235291 4941173 5647055 6352937 7058819 7764701 8470583 9176465 9882347
al number	m = 7 trs = 17 trs =	######################################	Chirp (Mis) 19 5 8 19 20 5 16 18 18 12 11 17 19 9	Fw (us) 80 90 65 95 100 95 90 65 95 90 65 95 90 65 95 90 65 95 90 65 95 90 65 95 90 65 95 90 95 90 95 90 95 90 95 90 95 90 95 90 95 90 95 90 95 90 95 90 95 95 90 95 95 95 95 95 95 95 95 95 95 95 95 95	Pulse 1 Pri(us) 1084 1386 1161 1584 1586 1504 1772 1337 1973 1200 1194 1805 1434 1747	Pulse 2 Pri(us) 0 1912 1831 1729 0 1870 1386 1627 1788 1544 1667 1027	Pulse 3 Pri(us) 0 1999 1065 0 0 0 1927 1022 1401 0 1381 1728 1666 0	Start Lo. (us) 606568 1361250 1812115 2602518 3479583 4146826 4363656 5451160 6224841 6445482 7450049 8434633 9057528 9307569	Interval (u 0 705882 1411764 2117646 2823528 3529410 4235292 4941174 5647056 6332938 7058820 7764702 8470584 9176466	Thetwal(u, 705881 1411763 2117645 2823527 3529409 4235291 4941173 5647056 6352937 7058819 7764701 8470583 9176465 9882347 10588229
reform Nu	m = 7 pts = 17 pts =	######################################	Chirp (MHz) 19 5 8 19 20 5 16 18 18 12 11 17	Fw (us) 80 90 65 95 90 65 75 90 55 95	Pulse 1 Pxi(us) 1084 1386 1161 1584 1586 1504 1772 1337 1973 1200 1194 1805 1434	Pulce 2 Pri (ue) O 1912 1831 1729 O 1870 1366 1627 1788 1544 1687 1027	Pulse 3 Pri(us) 0 1999 1065 0 0 0 1927 1022 1401 0 1381 1728 1666	Start Lo. (us) 606568 1361250 1812115 2602518 3479583 4146826 4363656 5451160 6224841 6445482 7450049 8434633 9057528 9307969	Interval (u 0 705882 1411764 2117646 2823528 3529410 4235292 4941174 5647056 6332938 7058820 7764702 8470584 9176466	705881 1411763 2117645 2823527 3529409 4235291 4941173 5647055 6352937 7058819 7764701 8470583 9176465 9882347



				тур	e 5 Radar \	wavetorn	1_8			
reform Nu n of Burs										
	val (us)= 1500	0000								
rst	Off Time	# 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)
	1209854	1	13	50	1797	0	0	1209854	0	1499999
	851180	3	20	65	1613	1585	1915	2062831	1500000	2999999
	1358538			50	1586	0	0	3426482	3000000	4499999
	2502574	1	11							
	917863	2	16	80	1053	1043	0	5930642	4500000	5999999
	1765791	3	7	55	1468	1905	1924	6850601	6000000	7499999
		2	12	95	1190	1528	0	8621689	7500000	8999999
	479122	3	6	90	1588	1162	1735	9103529	9000000	10499999
	2609102		10	70		0	0	11717116		11999999
	er of pulses in		16		1041		V	11/1/110	10500000	11999999
					**************	olok				
				Тур	e 5 Radar \	Waveform	1_9			
eform No	um = 9 sts = 20 rval (us) = 6000 (us) 408762 285294									
st Inte	rval (us)= 6000 Off Time (us)	000 # 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)
	408762 285294	2	17	55	1216	1666	0	408762	0	599999
	604093	3	17 12	55 55	1630 1614	1083 1853	1839 o	696938 1305583	600000 1200000	1199999 1799999
	849071	3	9	60	1616	1392	1792	2158121	1800000	2399999
	782327 89804	2	6	60	1101	1906	0	2945248	2400000	2999999
	1152724	2	17	55	1731	1666	0	3038059	3000000	3599999
	407054	3	5	70	1481	1931	1094	4194180	3600000	4199999
	202335	1	18	85	1787	0	0	4605740	4200000	4799999
	1010185	2	11	100	1028	1080	0	4809862	4800000	5399999
	195192	3	13	65 50	1327 1522	1194 1366	1019 1551	5822155 6020887	5400000 6000000	599999 659999
	1045050	3	5	70	1287	1162	1448	7070376	6600000	7199999
	599820	2	9	55	1421	1373	0	7674093	7200000	7799999
	329630 767991	2	20	65	1535	1923	0	8006517	7800000	8399999
	280923	2	7	70	1006	1647	0	8777966	8400000	8999999
	657640	2	15	85	1797	1529	0	9061542	9000000	9599999
	1033977	1	14	90	1420	0	0	9722508	9600000	10199999
	58554	1	9	65	1462	0	0	10757905	10200000	10799999
	1019049	2	17 5	55 50	1096 1513	1091 1661	0	10817921 11839157	10800000 11400000	11399999 11999999
al numb	er of pulses in	a waveform =	43		+++++++++++++++++++++++++++++++++++++		Ü	11639151	11400000	11999999
				Type	5 Radar V	Vaveform	10			
				Турс	J Kadai V	Vavcioiiii	_10			
eform Nu										
	rval (us)= 1500	0000								
st Inter	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)
		_	14	95	1415	1826	0	1037520	0	1499999
	1037520	2				0	0	2469165	1500000	2999999
	1037520 1428404	2 1	19	50	1319					
	1037520 1428404 648942			50 90	1319 1208	0	0	3119426	3000000	4499999
	1037520 1428404 648942 2081144	1	19			0 1051	0	3119426 5201778	3000000 4500000	4499999 5999999
	1037520 1428404 648942	1 1 2	19 18 19	90 100	1208 1623	1051	0	5201778	4500000	5999999
	1037520 1428404 648942 2081144	1 1 2 2	19 18 19 5	90 100 65	1208 1623 1264	1051 1464	0	5201778 6884068	4500000 6000000	5999999 7499999
st Inter	1037520 1428404 648942 2081144 1679616	1 1 2 2 3	19 18 19 5 16	90 100 65 55	1208 1623 1264 1592	1051 1464 1322	0 0 1876	5201778 6884068 8124873	4500000 6000000 7500000	5999999 7499999 8999999
	1037520 1428404 648942 2081144 1679616 1238077	1 1 2 2	19 18 19 5	90 100 65	1208 1623 1264	1051 1464	0	5201778 6884068	4500000 6000000	5999999 7499999



				Туре	5 Radar V	Vaveform	_11			
	11									
m of Bur	Num = 11 :sts = 16 :rval (us)= 7500	100								
ırst	Off Time	# 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)
	(us) 463937	1	13	80	1029	0	0	463937	0	749999
	422488	2	16	80	1962	1476	0	887454	750000	1499999
	1309996	2	16	70	1245	1904	0	2200888	1500000	2249999
	154712	2	17	60	1239	1691	0	2358749	2250000	2999999
	923513	2	13	90	1348	1800	0	3285192	3000000	3749999
	1201210	2	11	50	1607	1123	0	4489550	3750000	4499999
	754598	1	19	100	1337	0	0	5246878	4500000	5249999
	674081	1	12	70	1350	0	0	5922296	5250000	5999999
	249419	2	6	70	1153	1430	0	6173065	6000000	6749999
)	906557	1	5	70	1136	0	0	7082205	6750000	7499999
L	550056	1	16	95	1167	0	0	7633397	7500000	8249999
2	1203469	2	17	80	1833	1653	0	8838033	8250000	8999999
3	752176 260922	3	5	60	1642	1585	1783	9593695	9000000	9749999
1	722936	3	13	70	1839	1188	1455	9859627	9750000	10499999
5	968902	1	8	85	1839	0	0	10587045	10500000	11249999
i in a numb	per of pulses in	1 wowoform = 3	11	100	1387	0	0	11557786	11250000	11999999
	 			101010101010101010101		ek				
				Туре	5 Radar V	Vaveform	_12			
reform N	Vum = 12									
st Inte	rsts = 17 erval (us)= 7058	382								
rst	Off Time (us)	# Pulses	Chirp (MHz)	P₩ (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	221369	3	14	80	1363	1371	1756	221369	0	705881
	1173947	3	18	55	1880	1265	1563	1399806	705882	1411763
	576412	3	18	50	1208	1510	1195	1980926	1411764	2117645
	165313	2	6	55	1266	1833	0	2150152	2117646	2823527
	916125	3	12	50	1984	1634	1658	3069376	2823528	3529409
	1117119	3	12	75	1193	1888	1314	4191771	3529410	4235291
	201864	1	18	65	1488	0	0	4398030	4235292	4941173
	1120295 480788	3	10	50	1455	1498	1042	5519813	4941174	5647055
	480788	3	8	85	1720	1210	1705	6004596	5647056	6352937
)	1211913	2	7	80	1495	1726	0	6491482	6352938	7058819
-	585466	1	20	85	1561	0	0	7706616	7058820	7764701
2	594316	3	15	60	1142	1731	1403	8293643	7764702	8470583
3	303027	2	18	65	1503	1334	0	8892235	8470584	9176465
ı	1178373	3	6	100	1657	1080	1115	9198099	9176466	9882347
5	691958	2	10	50	1311	1468	0	10380324	9882348	10588229
5	453704	2	9	75	1991	1765	0	11075061	10588230	11294111
al numb		2 1 waveform = <	13 41 1000000000000	55 	1469 ***********	1250	0	11532521	11294112	11999993
							40			
				туре	5 Radar V	vavetorm	_13			
of Bur	Wum = 13 ssts = 11 erval (us)= 1090	909								
st	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)
	590704	3	11	60	1128	1327	1012	590704	0	1090908
	1115214	3	5	65	1708	1421	1546	1709385	1090909	2181817
	1292319									
	1073575	3	8	95	1894	1095	1387	3006379	2181818	3272726
		1	7	70	1366	0	0	4084330	3272727	4363635
	891262	1	12	55	1513	0	0	4976958	4363636	5454544
	762428									
	1849498	3	5	90	1481	1475	1766	5740899	5454545	6545453
		1	9	75	1509	0	0	7595119	6545454	7636362
	129884	1	19	90	1908	0	0	7726512	7636363	8727271
	1891536									
	1016364	1	20	65	1568	0	0	9619956	8727272	9818180
	1010004	1	14	95	1812	0	0	10637888	9818181	10909089
)		1	14	20	1011		•			
	1069236	3	17	100	1147	1652	1516	11708936	10909090	11999998



				Туре	5 Radar W	laveform_	_14			
veform N	Tum = 14									
n of Bur	sts = 12 erval (us)= 1000	1000								
rst	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)
	547941	2	12	95	1580	1081	0	547941	0	999999
	838076	1	12	75	1041	0	0	1388678	1000000	1999999
	700154	3	5	55	1261	1923	1435	2089873	2000000	2999999
	1317652	2	11	85	1497	1415	0	3412144	3000000	3999999
	606059	2	7	100	1172	1197	0	4021115	4000000	4999999
	1495553	3	20	80	1245	1537	1702	5519037	5000000	5999999
	1075955	3	15	60	1495	1145	1120	6599476	6000000	6999999
	504106	2	6	90	1413	1863	0	7107342	7000000	7999999
	1064372	2	20	100	1728	1109	0	8174990	8000000	8999999
	943035	3	9	95	1914	1468	1727	9120862	9000000	9999999
	1362489	2	14	55	1187	1064	0	10488460	10000000	10999999
	573745	3	10	75	1269	1057	1675	11064456	11000000	11999999
al numb Helefelelelele	er of pulses in	waveform = 2	28							
				Type	5 Radar W	/aveform	15			
				1,700	o reader r	iavoloiiii.	_10			
eform N of Bur	Jum = 15 sts = 10									
	erval (us)= 1200		<i>a.</i>	200				a		
st	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)
	193439	1	19	85	1152	0	0	193439	0	1199999
	1145980	2	6	85	1394	1619	0	1340571	1200000	2399999
	1372081									
	1464955	2	8	65	1719	1670	0	2715665	2400000	3599999
	871107	1	5	75	1789	0	0	4184009	3600000	4799999
	1356410	1	13	50	1175	0	0	5056905	4800000	5999999
	1003678	3	19	80	1944	1712	1990	6414490	6000000	7199999
		3	18	95	1204	1456	1994	7423814	7200000	8399999
	2117619	1	20	50	1891	0	0	9546087	8400000	9599999
	892930	3	7	90	1615	1571	1361	10440908	9600000	10799999
	1203032	2	20	75	1407	1001	0	11648487	10800000	11999999
al numb	er of pulses in	waveform =	19		1401		Ü	11040401	10800000	11999999
				Туре	5 Radar W	/aveform	_16			
of Bur	Jum = 16 sts = 10									
st inte st	erval (us)= 1200 Off Time	#	Chirp	₽₩	Pulse 1	Pulse 2	Pulse 3	Start Loc	Start Burst	End Burst
	(us)	# Pulses	Chirp (MHz)	(us)	Pri(us)	Pri(us)	Pri(us)	(us)	Interval (us)	Interval (us)
	319345	2	7	95	1708	1676	0	319345	0	1199999
	925656	1	17	90	1750	0	0	1248385	1200000	2399999
			11	75	1782	1881	0	2625580	2400000	3599999
	1375445		11							
	1375445 1241632	2	4 -		1099	1626	0	3870875	3600000	4799999
		2	15	95				E417007	4000000	5999999
	1241632 1544387		15 5	100	1456	0	0	5417987	4800000	0222222
	1241632 1544387 943361	2			1456 1559	0	0	6362804	6000000	7199999
	1241632 1544387 943361 2025392	2 1	5	100						
	1241632 1544387 943361	2 1 1 2	5 8 10	100 75 85	1559 1758	0	0	6362804 8389755	6000000 7200000	7199999 8399999
	1241632 1544387 943361 2025392	2 1 1 2	5 8 10 13	100 75 85 70	1559 1758 1651	0 1344 0	0 0 0	6362804 8389755 9212800	6000000 7200000 8400000	7199999 8399999 9599999
	1241632 1544387 943361 2025392 819943	2 1 1 2	5 8 10	100 75 85	1559 1758	0 1344	0	6362804 8389755	6000000 7200000	7199999 8399999



				Type	5 Radar W	/aveform_	_17			
reform N	Jum = 17	<u>-</u>			<u>-</u>	<u>-</u>				
of Bur	sts = 14 erval (us)= 8571	.43								
rst	Off Time	# 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)
	423662	ruises 2	(MHZ) 17	(us) 95	1949	1725	0 PT1 (US)	(us) 423662	O (us)	857142
	1254398	1	6	95 95	1380	0	0	1681734	857143	1714285
	545877						0	2228991		
	585002	2	16	85	1877	1574	0		1714286	2571428
	1182577	2	6	85	1357	1053	0	2817444	2571429	3428571
	490334	1	5	80	1938	0	=	4002431	3428572	4285714
	1448720	1	12	70	1117	0	0	4494703	4285715	5142857
	268608	2	16	75	1941	1570	0	5944540	5142858	6000000
	1076044	3	13	90	1557	1164	1691	6216659	6000001	6857143
	1013146	2	9	50	1167	1038	0	7297115	6857144	7714286
	909523	3	8	95	1752	1363	1683	8312466	7714287	8571429
	941948	2	5	65	1451	1519	0	9226787	8571430	9428572
	556843	3	13	65	1350	1309	1809	10171705	9428573	10285715
	830429	3	8	75	1979	1319	1153	10733016	10285716	11142858
ol wumb	per of pulses in	2	10	90	1980	1647	0	11567896	11142859	12000001
*******	ooooooooooooooooooooooooooooooooooooo	doleteleteleteleteleteleteleteleteletelet				tok				
				Туре	5 Radar W	/aveform_	_18			
eform I	Num = 18	_				<u>-</u>				
of Bur st Inte st	rsts = 20 erval (us)= 6000 Off Time (us)	#	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst	End Burst Interval(us)
	(us) 32401	Pulses							Interval (us)	
	628774	1	12 17	60 85	1929 1470	0	0	32401 663104	o 600000	599999 1199999
	635068	1	16	85	1008	0	0	1299642	1200000	1799999
	1073440	1	13	85	1543	0	0	2374090	1800000	2399999
	326940 405738	2	13	75	1875	1605	0	2702573	2400000	2999999
	544965	2	18	80	1590	1647	0	3111791	3000000	3599999
	692987	3	14	100	1372	1215	1108	3659993	3600000	4199999
	997830	1	15 17	75 70	1998 1025	0	0	4356675 5356503	4200000 4800000	479999 539999
	317271	3	18	55	1548	1339	1728	5674799	5400000	599999
	472609	3	19	85	1121	1816	1265	6152023	6000000	6599999
	923334 397823	2	17	90	1858	1425	0	7079559	6600000	7199999
	729077	1	17	55	1381	0	0	7480665	7200000	7799999
	392023	3	16	100	1086	1202	1384	8211123	7800000	839999
	710679	3	17	90	1612	1541	1944	8606818	8400000	899999
	861221	3	12 9	80 70	1654 1753	1651 1741	1465 1851	9322594 10188585	9600000	9599999 10199999
	583152	1	10	60	1763	0	0	10188686	10200000	10199999
	459162	3	12	95	1809	1535	1326	11237533	10800000	11399999
-1ml	412077	1	1.1	85	1071	0	0	11654280	11400000	11999999
al numb	per of pulses in	waveform = ;	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 	***********		totok				
				Туре	5 Radar W	/aveform_	_19			
of Bur	Num = 19 :sts = 13 :rval (us)= 9230	177								
st	Off Time	#	Chirp	PW (vg)	Pulse 1	Pulse 2	Pulse 3	Start Loc	Start Burst Interval(us)	End Burst
	(us) 716105	Pulses	(MHz)	(us)	Pri(us)	Pri(us)	Pri(us)	(us)		Interval(us)
	847604	2	15	65	1108	1751	0	716105	0	923076
	377938	3	17	65	1828	1842	1132	1566568	923077	1846153
	1272965	2	8	65	1374	1744	0	1949308	1846154	2769230
		3	20	80	1982	1143	1119	3225391	2769231	3692307
	895050	2	18	75	1950	1144	0	4124685	3692308	4615384
	1313982	1	14	85	1703	0	0	5441761	4615385	5538461
	537927	2		65	1994		0	5981391	5538462	6461538
	992194		18			1336				
	1075194	3	12	80	1843	1109	1076	6976915	6461539	7384615
	956964	3	17	50	1118	1920	1802	8056137	7384616	8307692
		3	12	85	1559	1031	1471	9017941	8307693	9230769
	257567	2	11	80	1992	1212	0	9279569	9230770	10153846
	1099750	3	7	70	1982	1961	1028	10382523	10153847	11076923
				_						
	1602805	1	12	60	1991	0	0	11990299	11076924	12000000



				Type	5 Radar W	laveform_	_20			
veform N	fum = 20									
rst Inte	sts = 16 rval (us)= 7500 Off Time		an i	₽₩	P-11	Pulse 2	Pulse 3	Charle I a	Start Burst	End Burst
rst	(us) 399940	# Pulses	Chirp (MHz)	(us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Interval (us)	
	1041733	1	16	70	1530	0	0	399940	0	749999
	229558	3	15	100	1899	1824	1725	1443203	750000	1499999
		3	10	55	1163	1835	1083	1678209	1500000	2249999
	732404	1	7	85	1857	0	0	2414694	2250000	2999999
	661062	2	13	65	1119	1190	0	3077613	3000000	3749999
	674610	3	20	60	1596	1021	1697	3754532	3750000	4499999
	1095960	2	10	80	1617	1788	0	4854806	4500000	5249999
	1125679	3	6	50	1114	1112	1429	5983890	5250000	5999999
	594655	2	11	85	1423	1976	0	6582200	6000000	6749999
	338789	1	5	50	1241	0	0	6924388	6750000	7499999
	640310	3	11	90	1902	1248	1644	7565939	7500000	8249999
:	1209732	1	16	90	1548	0	0	8780465	8250000	8999999
	533520	3	6	60	1644	1250	1712	9315533	9000000	9749999
	658058	1	15	85	1113	0	0	9978197	9750000	10499999
	1023822	3	20	50	1944	1206	1026	11003132	10500000	11249999
	750534	2	16	75	1803	1110	0	11757842	11250000	11999999
al numb	er of pulses in	waveform = 3	34				-			
				Type	5 Radar W	laveform	21			
				Турс	J Itauai V	raveloiiii				
eform Nu	sts = 12	^^^								
st inter	rval (us)= 1000 Off Time	#	Chirp	₽₩	Pulse 1	Pulse 2	Pulse 3	Start Loc	Start Burst	End Burst
	(us)	Pulses	(MHz)	(us)	Pri(us)	Pri(us)	Pri(us)	(us)		Interval (us)
	504053	3	9	60	1659	1838	1671	504053	0	999999
	1192417	3	5	75	1024	1515	1631	1701638	1000000	1999999
	470160									
	1492364	2	20	75	1566	1540	0	2175968	2000000	2999999
	414644	2	19	50	1734	1267	0	3671438	3000000	3999999
		3	16	90	1916	1964	1239	4089083	4000000	4999999
	1719337	3	18	55	1024	1487	1926	5813539	5000000	5999999
	1005794	-								
	602952	2	17	80	1709	1654	0	6823770	6000000	6999999
	609575	3	12	95	1828	1715	1763	7430085	7000000	7999999
		1	7	65	1530	0	0	8044966	8000000	8999999
	1406300	1	19	100	1270	0	0	9452796	9000000	9999999
	1228144									
	953619	1	13	70	1916	0	0	10682210	10000000	10999999
al numb	er of pulses in	1 waveform = 2	19 5	95	1782	0	0	11637745	11000000	11999999
ar mande	or or barses in	waverurm = 2 oololololololololololololololololololo	101010101010101010		+++++++++++++++++++++++++++++++++++++	*				
				Type	5 Radar W	/aveform	22			
	00			.,,,,,						
of Bur	Jum = 22 sts = 16 srval (us)= 7500	000								
st	Off Time	# 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
	(us) 721697	3	18	90	1805	1662	1044	721697	O O	749999
	386735	1	6	70	1057	0	0	1112943	750000	1499999
	941633	2	13	85	1891	1708	0	2055633	1500000	2249999
	747999									2999999
	888300	1	17	100	1673	0	0	2807231	2250000	
	255469	3	20	95	1165	1506	1544	3697204	3000000	3749999
	826802	1	10	80	1383	0	0	3956888	3750000	4499999
	020002	1	19	70	1179	0	0	4785073	4500000	5249999
	798532		13	95	1692	1516	1433	5584784	5250000	5999999
		3			1010	0	0	6288309	6000000	6749999
	798532 698884	1	13	60				7289609	6750000	7499999
	798532 698884 1000290	1	18	90	1139	0	0			
	798532 698884 1000290 407429	1 1 3	18 11	90 100	1139 1689	1642	1640	7698177	7500000	8249999
	798532 698884 1000290 407429 854611	1	18	90	1139					
	798532 698884 1000290 407429 854611 754107	1 1 3	18 11	90 100	1139 1689	1642	1640	7698177	7500000 8250000 9000000	8249999 8999999 9749999
	798532 698884 1000290 407429 854611 754107 669605	1 1 3 3	18 11 18	90 100 65	1139 1689 1939	1642 1373	1640 1570	7698177 8557759	7500000 8250000 9000000 9750000	8249999 8999999 9749999 10499999
	798532 698884 1000290 407429 854611 754107	1 1 3 3 3	18 11 18 12	90 100 65 95	1139 1689 1939 1426	1642 1373 1631	1640 1570 1441	7698177 8557759 9316748	7500000 8250000 9000000	8249999 8999999 9749999



				Type	5 Radar W	laveform	_23			
eform N	um = 23 sts = 18	20								
st inte st	rval (us)= 6666 Off Time	#	Chirp (MHz)	₽₩	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	(us) 273996	Pulses	(MHz)	(us)					Interval (us)	
	571519	3	12	75 85	1025 1938	1858 0	1186 0	273996 849584	666667	666666 1333333
	985022	2	10	90	1765	1112	0	1836544	1333334	2000000
	790574	2	12	65	1280	1453	0	2629995	2000001	2666667
	648793	2	15	60	1263	1795	0	3281521	2666668	3333334
	70798	1	6	100	1955	0	0	3355377	3333335	4000001
	1172774	1	19	85	1870	0	0	4530106	4000002	4666668
	384630	3	5	65	1951	1768	1912	4916606	4666669	5333335
	612349	1	7	70	1156	0	0	5534586	5333336	6000002
	657008	3	11	85	1613	1838	1279	6192750	6000003	6666669
	999557	1	19	100	1917	0	0	7197037	6666670	7333336
	159196	3	6	100	1391	1892	1699	7358150	7333337	8000003
	1212797	3	20	95	1371	1057	1947	8575929	8000004	8666670
	720902	1	16	60	1120	0	0	9301206	8666671	9333337
	385694	1	16	50	1515	0	0	9688020	9333338	10000004
	874338	2	16	55	1925	1816	0	10563873	10000005	10666671
	583907	1	8	100	1005	0	0	11151521	10666672	11333338
	328331	2	11	60	1823	1960	0	11480857	11333339	12000005
l numb	er of pulses in	waveform = 3	13 10101010101010101010			*				
				Туре	5 Radar W	/aveform	_24			
form N	ium = 24									
of Bur	sts = 14 rval (us)= 8571	.43								
st	Off Time	# Pulses	Chirp (MHz)	PW (us)	Pulse 1	Pulse 2	Pulse 3 Pri(us)	Start Loc (us)	Start Burst	End Burst Interval(us)
	(us) 561948				Pri(us)	Pri(us)			Interval (us)	
	361459	1	18	100	1982	0	0	561948	0	857142
		3	12	65	1961	1237	1058	925389	857143	1714285
	1018883	1	20	60	1510	0	0	1948528	1714286	2571428
	1440370	1	19	85	1458	0	0	3390408	2571429	3428571
	230674					0	0			
	1476753	1	15	50	1682			3622540	3428572	4285714
	760955	1	17	95	1181	0	0	5100975	4285715	5142857
	982224	1	19	85	1592	0	0	5863111	5142858	6000000
		1	11	100	1620	0	0	6846927	6000001	6857143
	589329	2	20	100	1984	1213	0	7437876	6857144	7714286
	395118	2	10	60	1892	1421	0	7836191	7714287	8571429
	993855									
	678830	1	14	60	1135	0	0	8833359	8571430	9428572
	1505168	2	11	55	1984	1760	0	9513324	9428573	10285715
		1	15	100	1058	0	0	11022236	10285716	11142858
	659668	1	11	95	1339	0	0	11682962	11142859	12000001
1 numb	er of pulses in	waveform = 1	19		*****************					
-1-101010101				Туре	5 Radar W	/aveform	_25			
form N	Jum = 25									
eform N of Bur	fum = 25 sts = 18 rval (us)= 6666 Off Time	#	Chirp	₽₩	Pulse 1	Pulse 2	Pulse 3	Start Loc	Start Burst	End Burst
oform N of Bur t Inte	rval (us)= 6666	# Pulses	Chirp (MHz)	(us)	Pri(us)	Pri(us)	Pri(us)	(us)	Interval (us) Interval(us
oform N of Bur t Inte	erval (us)= 6666 Off Time (us)	# Pulses 1	17	(us) 90	Pri (us) 1124	Pri(us)	Pri(us)	(us) 320664	Interval (us 0) Interval (us 666666
form N of Bur t Inte	orval (us)= 6666 Off Time (us) 320664	# Pulses 1 2	17 16	(us) 90 100	Pri (us) 1124 1763	Pri(us) 0 1704	Pri(us) O O	(us) 320664 1191440	Interval (us 0 666667) Interval(us 666666 1333333
form N of Bur t Inte	erval (us)= 6666 Off Time (us) 320664 869652	# Pulses 1 2	17 16 12	(us) 90 100 50	Pri(us) 1124 1763 1728	Pri(us) 0 1704 0	Pri(us) O O	(us) 320664 1191440 1881013	Interval (us 0 666667 1333334) Interval(us 666666 1333333 2000000
form N of Bur t Inte	Off Time (us) 320664 869652 686106	# Pulses 1 2 1	17 16 12 8	(us) 90 100 50 65	Pri(us) 1124 1763 1728 1061	Pri(us) 0 1704 0 1134	Pri(us) 0 0 0 1088	(us) 320664 1191440 1881013 2593549	Interval (us 0 666667 1333334 2000001) Interval (us 666666 1333333 2000000 2666667
form N of Bur t Inte	Off Time (us) 320664 869652 686106 710808	#Pulses 1 2 1 3	17 16 12 8 9	(us) 90 100 50 65 100	Pri(us) 1124 1763 1728 1061 1743	Pri(us) 0 1704 0 1134 1175	Pri(us) 0 0 0 1088	320664 1191440 1881013 2593549 3180986	Interval (us 0 666667 1333334 2000001 2666668) Interval (us. 666666 1333333 2000000 2666667 3333334
form N of Bur t Inte	Off Time (ug) = 6666 (ug) 320664 869652 686106 710808 584154 209451	# Pulses 1 2 1 3 3	17 16 12 8 9 5	(us) 90 100 50 65 100	Pri(us) 1124 1763 1728 1061 1743 1823	Pri(us) 0 1704 0 1134 1175	Pri(us) 0 0 0 1088 1265	320664 1191440 1881013 2593549 3180986 3394620	Interval (us 0 666667 1333334 2000001 2666668 3333335	1333333 2000000 2666667 3333334 4000001
form N of Bur t Inte	Off Time (us) = 6660 (us) 320664 869652 686106 710808 584154 209451 706594	#Pulses 1 2 1 3	17 16 12 8 9	(us) 90 100 50 65 100	Pri(us) 1124 1763 1728 1061 1743	Pri(us) 0 1704 0 1134 1175	Pri(us) 0 0 0 1088	320664 1191440 1881013 2593549 3180986	Interval (us 0 666667 1333334 2000001 2666668 3333335 4000002) Interval (us. 666666 1333333 2000000 2666667 3333334
form N of Bur t Inte	Prval (us) = 6666 off Time (ur) 320664 s69652 686106 710808 584154 209451 706594 1154850	# Pulses 1 2 1 3 3	17 16 12 8 9 5	(us) 90 100 50 65 100	Pri(us) 1124 1763 1728 1061 1743 1823	Pri(us) 0 1704 0 1134 1175	Pri(us) 0 0 0 1088 1265	320664 1191440 1881013 2593549 3180986 3394620	Interval (us 0 666667 1333334 2000001 2666668 3333335) Interval(us 666666 1333333 2000000 2666667 3333334 4000001
form N of Bur t Inte	rval (us)= 6666 Off Time (us) 320664 869652 686106 710808 584154 209451 706894 1154850 621420	# Pulses 1 2 1 3 1	17 16 12 8 9 5	(us) 90 100 50 65 100 55	Pri (ur) 1124 1763 1728 1061 1743 1823 1200	Pri(us) 0 1704 0 1134 1175 0 1079	Pri(us) 0 0 0 1088 1265 0 1470	(uz) 320664 1191440 1881013 2593549 3180986 3394620 4103037	Interval (us 0 666667 1333334 2000001 2666668 3333335 4000002	1333333 2000000 2666667 3333334 4000001 4666668
form N of Bur t Inte	Off Time (us) = 686% (off Time (us) 320664 869652 686106 710808 584154 209451 706594 1154850 621420 167737	# Pulses 1 2 1 3 3 1	17 16 12 8 9 5 13	(us) 90 100 50 65 100 55 85	Pri (ur) 1124 1763 1728 1061 1743 1823 1200 1050	Pri(us) 0 1704 0 1134 1175 0 1079	Pri(us) 0 0 0 1088 1265 0 1470 1264	320664 1191440 1881013 2593549 3180986 3394620 4103037 5261636	Interval (us 0 666667 1333334 2000001 2666668 333335 4000002 4666669	666666 133333 2000000 2666667 3333334 4000001 4666668 5333335
form N of Bur t Inte	Off Time (us) = 6666 (us) (12) 22664 (us) (12) 22664 (13) 22664 (15) 2666 (15) 2666 (16) 2666	# Pulses 1 2 1 3 3 3 1	17 16 12 8 9 5 13 14	(us) 90 100 50 65 100 56 85 100 85	Pri(us) 1124 1763 1728 1061 1743 1823 1200 1050 1405	Pri(us) 0 1704 0 1134 1175 0 1079 1642 1692	Pri(us) 0 0 0 1088 1265 0 1470 1264	320664 1191440 1881013 2593549 3180986 3394620 4103037 5261636 5887012	Interval (us 0 666667 1333334 2000001 2666668 333335 4000002 4666669 5333336	666666 1333333 2000000 2666667 3333334 4000001 4666668 5333335 6000002
form N of Bur t Inte	Off Time (us) = 686% (us) 320664 (us) 3206694 (us) 320694 (us) 320	# Pulses 1 2 1 3 3 3 1 2 2 3 3 3	17 16 12 8 9 5 13 14 16	(us) 90 100 50 65 100 56 85 100 80 86	Pri(us) 1124 1763 1728 1061 1743 1823 1200 1050 1405	Pri(us) 0 1704 0 1134 1175 0 1079 1642 1692 1214	Pri(us) 0 0 1088 1265 0 1470 1264 0	(us) 320664 1191440 1881013 2593549 3180986 3394620 4103037 5261636 5887012 6057846	Interval (us 0	666666 1333333 2000000 2666667 3333334 4000001 4666668 5333335 6000002 6666669
form N of Bur t Inte	Off Time (us) = 6666 (us) (150 Cm) (us) (150 Cm)	# Pulses 1 2 1 3 3 1 2 2 1 3 3 1 3 3 3 2 3 3	17 16 12 8 9 6 13 14 16 9	(us) 90 100 50 65 100 56 85 100 80	Pri(us) 1124 1763 1728 1061 1743 1823 1200 1050 1405 14289 1048	Pri(us) 0 1704 0 11134 1175 0 1079 1642 1692 1214	Pri(us) 0 0 1088 1285 0 1470 1264 0 1321	(us) 320664 1191440 1881013 2593549 3180986 3394520 4103037 5261636 5887012 6057846 7246488	Interval (us o	Interval (us. 686666 133333 2000000 2666667 333334 4000001 4666668 533335 6000002 6666669 7333336
eform N of Bur	Off Time (us) = 6666 (ur) (ur) (us) (us) (us) (us) (us) (us) (us) (us	# Pulses 1 2 1 3 3 1 3 3 1 3 3 1	17 16 12 8 9 5 13 14 16 9 12	(us) 90 100 50 65 100 55 85 100 80 86 100	Pri(us) 1124 1763 1728 1061 1743 1823 1200 1050 1405 1489 1048	Pri (us) 0 1704 0 1134 1175 0 1079 1642 1692 1214 1136 0	Pri(us) 0 0 0 1088 1265 0 1470 1264 0 1321 1568	(us) 320664 1191440 1881013 2593549 3180986 3394620 4103037 5261636 5887012 6057846 7246488 7476867	Interval (us o	Distribution of the control of the c
form N of Bur t Inte	Off Time (us) = 686% (us) 320664 869652 686106 710808 584154 209451 706594 1154850 621420 167737 1184618 226627 1123488 670588 544801	# Pulses 1 2 1 3 3 1 2 3 2 1 3 1 1 3 1 1 1 1 1	17 16 12 8 9 5 13 14 16 9 12 9	(us) 90 100 50 65 100 55 85 100 80 85 100 90	Pri(us) 1124 1763 1728 1061 1743 1823 1200 1050 1405 1489 1048 1724	Pri (us) 0 1704 0 1134 1175 0 1079 1642 1692 1214 1136 0 0	Pri(us) 0 0 1088 1265 0 1470 1264 0 1321 1568 0 0	(us) 320664 1191440 1881013 2593649 3180986 3394620 4103037 5261636 5887012 6057846 7246488 7476867 8602079	Interval (us o	Beefee 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
oform N of Bur t Inte	Off Time (us) = 6666 (us) (10 m) (us) (10 m)	# Pulses 1 2 1 3 3 1 3 2 2 3 1 3 1 3 1 1 1 1	17 16 12 8 9 5 13 14 16 9 12 9 20 15	(us) 90 100 50 65 100 56 85 100 80 86 100 90 86	Pri(us) 1124 1763 1728 1061 1743 1823 1200 1050 1405 1489 1048 1724 1359	Pri (us) 0 1704 0 1134 1175 0 1079 1642 1692 1214 1136 0 0 1357	Pri(us) 0 0 1088 1265 0 1470 1264 0 1321 1568 0 0 1218	(us) 320664 1191440 1881013 2593549 3180986 3394620 4103037 5261636 5887012 6057846 7246488 7476867 8602079	Interval (us 0 668667 1333334 2000001 2666668 333335 4000002 4666669 533339 6000003 6666670 7333337 8000004 8666671	Distribution of the control of the c
oform N of Bur t Inte	Off Time (us) = 6666 (us) (150 Time (us) (us) (150 Time (us) (us) (us) (us) (us) (us) (us) (us)	# Pulses 1 2 1 3 3 1 3 2 3 1 3 3 1 3 3 1 3 3 3 1 3 3 3 1 3 3 3 3 1 1 3	17 16 12 8 9 5 13 14 16 9 12 9 20 15 18	(us) 90 100 50 65 100 55 85 100 80 85 100 90	Pri(us) 1124 1763 1728 1061 1743 1823 1200 1050 1405 1489 1048 1724 1359 1460	Pri (us) 0 1704 0 1134 1175 0 1079 1642 1692 1214 1136 0 0 1357	Pri(us) 0 0 0 1088 1265 0 1470 1264 0 1321 1568 0 0 1218 0	(us) 320664 1191440 1881013 2593549 3180986 3394520 4103037 5261636 5887012 6057846 7246488 7476867 8602079 9274026 9822862 10476418	Interval (us o	Interval (us. 686666 1333333 2000000 2866667 333334 4000001 4666668 533335 6000002 6866669 733336 8000003 8666670 933337 10000004
eform N	Off Time (us) = 6666 (us) (10 m) (us) (10 m)	# Pulses 1 2 1 3 3 1 1 3 2 1 1 3 1 1 3 1 1 3 1 1 1 3 3 3 1 1 1 3 3 3 3 1 1 1 3 3 3 3 3 4 1 1 3 3 3 3	17 16 12 8 9 5 13 14 16 9 12 9 20 15 18	(us) 90 100 50 65 100 55 85 100 80 100 90 85 100 80	Pri(us) 1124 1763 1728 1061 1743 1823 1200 1050 1405 1408 1724 1359 1460 1656 1029	Pri (us) 0 1704 0 1134 1175 0 1079 1642 1692 1214 1136 0 0 1357 0	Pri(us) 0 0 1088 1265 0 1470 1264 0 1321 1568 0 0 1218	(us) 320664 1191440 1881013 2593649 3180986 3394620 4103037 5261636 5887012 6057846 7246488 7476867 8602079 9274026 9822862	Interval (us o	Interval (us 666668 1333333 2000000 2666667 333334 4000001 4666668 533335 6000002 6666669 733336 8000003 8666670 933337 10000004 10666671



				Туре	5 Radar V	Vaveform	_26			
veform Nu	ım = 26									
m of Burs	ım = 26 sts = 17 cval (us)= 7058	82								
urst	Off Time (us) 678934	# 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)
		3	19	60	1951	1633	1025	678934	0	705881
	252950	2	19	95	1684	1201	0	936493	705882	1411763
	738207	1	17	70	1317	0	0	1677585	1411764	2117645
	1087433	2	7	55	1043	1366	0	2766335	2117646	2823527
	329250	2	15	90	1585	1371	0	3097994	2823528	3529409
	996688	2	15	55	1168	1322	0	4097638	3529410	4235291
	569518	2	11	60	1331	1506	0	4669646	4235292	4941173
	395272	3	10	65	1720	1941	1883	5067755	4941174	5647055
	983759	1	10	65	1110	0	0	6057058	5647056	6352937
)	365804	2	8		1762	1966	0	6423972	6352938	7058819
	812965	2		100						
-	1081152	_	14	55	1706	1420	0	7240665	7058820	7764701
2	808068	1	13	95	1142	0	0	8324943	7764702	8470583
	282364	2	13	60	1609	1711	0	9134153	8470584	9176465
1	716158	3	19	50	1078	1973	1026	9419837	9176466	9882347
5	564663	3	5	95	1027	1132	1585	10140072	9882348	10588229
3	807171	1	15	70	1254	0	0	10708479	10588230	11294111
:al numbo	er of pulses in	2 waveform = :	18	100	1030	1298	0	11516904	11294112	11999993
	pospospospos			101010101010101010	 	**				
				Туре	5 Radar V	Vaveform	_27			
eform Nu	ım = 27 sts = 18 rval (us)= 6666									
st Inter	Off Time	±	Chirp	₽₩	Pulse 1	P117 == 2	Pulse 3	Start Ic-	Start Burst	End Burst
	(us) 508083	Pulses	Chirp (MHz)	(us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pri(us)	Start Loc (us)	Interval (us) Interval(us)
	556166	2	16	80	1963	1545	0	508083	0	666666
	556166 374470	2	7	90	1046	1757	0	1067757	666667	1333333
		3	18	100	1569	1648	1438	1445030	1333334	2000000
	871040	1	14	60	1300	0	0	2320725	2000001	2666667
	507308	2	7	80	1627	1885	0	2829333	2666668	3333334
	1112542	3	19	70	1699	1921	1258	3945387	3333335	4000001
	419695	3	14	60	1286	1529	1374	4369960	4000002	466668
	523711	2	20	95	1216	1692	0	4897860	4666669	5333335
	675085	1	5	85	1215	0	0	5575853	5333336	6000002
	857705	1	14	85	1592	0	0	6434773	6000003	6666669
	795767	1	9	90	1984	0	0	7232132	6666670	7333336
:	630355	2	6	65	1243	1316	0	7864471	7333337	8000003
	592986	3	16	70	1107	1416	1792	8460016	8000004	8666670
	280747	1	5	70	1457	0	0	8745078	8666671	9333337
	648926	1	8	65	1447	0	o	9395461	9333338	10000004
	633422	2	13	50	1600	1625		10030330	10000005	10666671
	761036	2	12	60	1861	1628	0	10794591	10666672	11333338
	807207	2		50	1128	1562	0	11605347	11333339	12000005
al numbe	er of pulses in	n waveform =	13 34 ++++++++++++++++++++++++++++++++++		1128 		U	11605347	11333339	12000005
				Type	5 Radar V	Vaveform	28			
_				.,,,,	J. Ladai V	-310101111				
	ts = 15 val (us)= 8000	00	an i	₽₩	Dul -	Dull - 0	Pol-	Charact T	Store F	F-1 P
st	Off Time (us) 26247	# Pulses	Chirp (MHz)	(us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
		2	18	80	1400	1479	0	26247	0	799999
	940710	3	16	70	1106	1645	1050	969836	800000	1599999
	1057964	1	11	65	1165	0	0	2031601	1600000	2399999
	630761	2	16	60	1456	1533	0	2663527	2400000	3199999
	746664	1	5		1380	0	0			
	1134355			95				3413180	3200000	3999999
	814368	3	15	65	1748	1115	1776	4548915	4000000	4799999
		3	6	75	1714	1481	1441	5367922	4800000	5599999
			7	75	1439	1621	0	6310326	5600000	6399999
	937768	2		100	1909	0	0	7050458	6400000	7199999
	937768 737072	1	9	200			_	7641794		7999999
	937768 737072 589427		9 6	65	1186	1608	0		7200000	
	937768 737072	1 2	6	65						8799999
	937768 737072 589427	1 2 2	6 19	65 100	1613	1601	0	8106896	8000000	8799999
	937768 737072 589427 462308	1 2 2 3	6 19 9	65 100 60	1613 1603	1601 1060	0 1843	8106896 9169248	8000000 8800000	8799999 9599999
	937768 737072 589427 462308 1059138	1 2 2 3 2	6 19 9 8	65 100 60 60	1613 1603 1355	1601 1060 1192	0 1843 0	8106896 9169248 10071846	8000000 8800000 9600000	8799999 9599999 10399999
	937768 737072 589427 462308 1059138 898092	1 2 2 3	6 19 9	65 100 60	1613 1603	1601 1060	0 1843	8106896 9169248	8000000 8800000	8799999 9599999





Type 5 Radar Waveform_29										
	Num = 29 rsts = 10 erval (us)= 1200	0000								
urst	Off Time	# 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	1154235	2	5	55	1253	1491	0	1154235	0	1199999
2	622494	1	6	70	1259	0	0	1779473	1200000	2399999
3	1308356	3	11	90	1649	1543	1914	3089088	2400000	3599999
1	1702123	2	16	50	1702	1918	0	4796317	3600000	4799999
•	516126									
5	854165	1	20	85	1338	0	0	5316063	4800000	5999999
6	1253814	1	14	55	1982	0	0	6171566	6000000	7199999
7	1150511	2	15	65	1233	1087	0	7427362	7200000	8399999
8		2	9	95	1582	1550	0	8580193	8400000	9599999
9	1840132	1	18	95	1226	0	0	10423457	9600000	10799999
	1200003			95	1831	1224	0	11624686	10800000	11999999
10 'otal num' >>>>>>	per of pulses in	2 n waveform = 1	.7 - 0000000000	***************************************		**				
otal numl	per of pulses in	n waveform = 1	.7	***************************************		**				
otal num	oer of pulses in the state of t	n waveform = 1	.? ***********	Туре	5 Radar V	** Vaveform	n_30			
otal numbers of several numbers	over of pulses in the state of	a waveform = 1	.7	***************************************		**		Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
aveform I	Der of pulses ir HENNENHENHENHENHENHENHENHENHENHENHENHENH	143 # Pulses	.7 ************************************	Type Fw (us) 95	Pulse 1 Pri(us) 1357	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (uz) 13795	Start Burst Interval(us)	End Burst Interval(us) 857142
aveform I um of Bu urst Inte	Num = 30 rsts = 14 rval (us) = 8571 Off Time (us) = 13795	a waveform = 1 https://doi.org/10.1001	.7 chirp (MHz) 8 17	Type Pw (us) 95 50	Pulse 1 Pri(us) 1357 1741	Pulse 2 Pri(us) 0	Pulse 3 Pri(us)	Start Loc (us) 13795 1655183	Start Burst Interval(us) 0 857143	End Burst Interval(us) 857142 1714285
aveform I um of Buurst Inte	Num = 30 stst = 14 srval (us) = 8571 Off Time (us) 13795 1640031	a waveform = 1 https://doi.org/10.1001	.7 chirp (Miz) 8 17 18	Type Fw (us) 95 50 65 65	Pulse 1 Pri(us) 1357 1741 1323	Pulse 2 Pri(us) 0 0 1039	Pulse 3 Pri(us) 0 0 1296	Start Loc (us) 13795 1655183 2142923	Start Burst Interval(us) O 857143 1714286	End Burst Interval(us) 857142 1714285 2571428
aveform I um of Bu urst Inte urst 1 2 3 4	Num = 30 orts = 14 ortrval (us) = 8571 Off Time (us) 13795 1640031 485399	a waveform = 1 https://doi.org/10.1001	Chirp (MHz) 8 17 18	Туре Р (Pulse 1 Pri(us) 1357 1741 1323 1882	Pulse 2 Pri(us) 0 0 1039 1519	Pulse 3 Pri(us) 0 0 1296 0	Start Loc (us) 13795 1655183 2142323 3387846	Start Burst Interval(us) 0 857143 1714286 2571429	End Burst Interval(us) 857142 1714285 2571428 3428571
aveform I	Num = 30 sts = 14 erval (us) = 8571 Off Time (us) 13795 1640031 485399 1241865	1 waveform = 1	Chirp (MHz) 8 17 18 19	Type PW (us) 95 50 65 95 90	Pulse 1 Pri (us) 1357 1741 1323 1882 1611	Pulse 2 Pri(us) 0 0 1039 1519 1597	Pulse 3 Pri(us) 0 0 1296	Start Loc (us) 13795 1655183 2142323 3387846 3683004	Start Burst Interval(us) 0 857143 1714286 2571429 3428572	End Burst Interval(us) 857142 1714285 2571428 3428571 4285714
aveform ! aveform ! aveform ! aveform ! !	Num = 30 sts = 14 erval (us) = 8571 Off Time (us) 13795 1640031 485399 1241865 291757	1 waveform = 1	Chirp (MHz) 8 17 18 19 10	Type FW (us) 95 50 65 96	Pulse 1 Pri (us) 1957 1741 1923 1882 1611 1044	Pulse 2 Pri(us) 0 0 1039 1519 1597 1167	Pulse 3 Pri(us) 0 0 1296 0	Start Loc (us) 13795 1655183 2142323 3387846 3683004 4586337	Start Burst Interval (us) 0 857143 1714286 2571429 3428572 4285715	End Burst Interval(us) 857142 1714285 2571428 3428571 4285714 5142857
aveform ! aveform ! aveform ! aveform ! ! aveform ! ! aveform ! ! aveform !	or of pulses in the	143 # Pulses 1 1 2 2 2 1	Chirp (MHz) 8 17 18 19 10 18 9	Type PW (us) 95 50 65 90 65 50	Pulse 1 Pri (us) 1357 1741 1323 1882 1611 1044 1482	Pulse 2 Pri(us) 0 0 1039 1519 1597 1167	Pulse 3 Pri(us) 0 0 1296 0 0	Start Loc (us) 13795 1655183 2142323 3387846 3683004 4586337 5977911	Start Burst Interval (us) 0 857143 1714286 2571429 3428572 4285715 5142858	End Burst Interval(us) 857142 1714285 2571428 3428571 4285714 5142857 6000000
aveform I have been been been been been been been be	Num = 30 (sts = 1 (rval (us) = 8571 (ff Time (us) 13795 1640031 485399 1241865 291757 900125 1389363	143 #Pulses 1 1 2 2 2 1 3	Chirp (MHz) 8 17 18 19 10 18 9 7	Type Pw (us) 95 50 65 95 90 65 50 100	Pulse 1 Pri (us) 1357 1741 1323 1882 1611 1044 1482 1261	Pulse 2 Pri(us) 0 0 1039 1519 1597 1167	Pulse 3 Pri(us) 0 0 1296 0 0	Start Loc (us) 13795 1655183 2142323 3387846 3683004 4586337 5977911 6327131	Start Burst Interval (us) 0 8571429 3428572 4285715 5142858 6000001	End Burst Interval(us) 857142 1714285 2571428 3428571 428571 5142857 6000000 6857143
aveform I mum of Bunret Inte	Num = 30 State = 1 (us) = 8571 (us) = 13795 13795 1640031 485399 1241865 291757 900125 1389363 347738	143 # Pulses 1 1 2 2 2 1	Chirp (MHz) 8 17 18 19 10 18 9	Type PW (us) 95 50 65 90 65 50	Pulse 1 Pri (us) 1357 1741 1323 1882 1611 1044 1482	Pulse 2 Pri(us) 0 0 1039 1519 1597 1167 0	Pulse 3 Pri(us) 0 0 1296 0 0	Start Loc (us) 13795 1655183 2142323 3387846 3683004 4586337 5977911	Start Burst Interval (us) 0 857143 1714286 2571429 3428572 4285715 5142858 6000001 6857144	End Burst Interval (us) 857142 1714285 2571428 3428571 428571 5142857 6000000 6857143 7714286
aveform I aum of Bururst Interpretation of B	Num = 30 rsts = 1 errval (us) = 8571 Off Time (us) = 13795 1640031 485399 1241865 291757 900125 1389363 347738 1154186	143 # Pulses 1 3 2 2 2 1 3 1 1	Chirp (MHz) 8 17 18 19 10 18 9 7 10 11	Type P# (us) 95 50 65 90 65 50 100 60 80	Pulse 1 Pri(us) 1357 1741 1323 1882 1611 1044 1482 1261 1362 1828	Pulse 2 Pri(us) 0 0 1039 1519 1597 1167 0 1322 0	Pulse 3 Pri(us) 0 0 1296 0 0 0 1538	Start Loc (us) 13795 1655183 2142323 3387846 3683004 4586337 5977911 6327131 7485438 7830871	Start Burst Interval(us) 0 857143 1714286 2571429 3428572 4285715 5142858 6000001 6857144 7714287	End Burst Interval (us) 857142 1714285 2571428 3428571 4285714 5142857 6000000 6857143 7714286 8571429
aveform I avefor	Num = 30 ststs = 14 srval (us) = 8571 Off Time (us) = 144863 13795 1640031 485399 1241865 291757 900125 1389363 347738 1154186 344071	143 #Pulses 1 1 2 2 2 1 3 1	Chirp (MHz) 8 17 18 19 10 18 9 7 10 11 8	Type Pw (us) 95 50 65 95 50 65 90 65 50 100 60 80 55	Pulse 1 Pri(us) 1357 1741 1323 1882 1611 1044 1482 1261 1362 1828 1497	Pulse 2 Pri(us) 0 0 1039 1519 1597 1167 0 1322 0	Pulse 3 Pri(us) 0 0 1296 0 0 0 0 1538	Start Loc (us) 13795 1655183 2142323 3387846 3683004 4586337 5977911 6327131 7485438 7830871 9021343	Start Burst Interval(us) 0 857143 1714286 2571429 3428572 4285715 5142858 6000001 6857144 7714287 8571430	End Burst Interval(us) 857142 1714285 2571428 3428571 4285714 5142857 6000000 6857143 7714286 8571429 9428572
otal num	Num = 30 sts = 14 srval (us) = 8571 Off Time (us) 13795 1640031 485399 1241865 291757 900125 1389363 347738 1154186 344071 1188644	2 waveform = 1	Chirp (MHz) 8 17 18 19 10 18 9 7 10 11	Type P# (us) 95 50 65 90 65 50 100 60 80	Pulse 1 Pri(us) 1357 1741 1323 1882 1611 1044 1482 1261 1362 1828	Pulse 2 Pri(us) 0 0 1039 1519 1597 1167 0 1322 0	Pulse 3 Pri(us) 0 0 1296 0 0 0 1538	Start Loc (us) 13795 1655183 2142323 3387846 3683004 4586337 5977911 6327131 7485438 7830871	Start Burst Interval(us) 0 857143 1714286 2571429 3428572 4285715 5142858 6000001 6857144 7714287	End Burst Interval (us) 857142 1714285 2571428 3428571 4285714 5142857 6000000 6857143 7714286 8571429



Radar Type 6 - Radar Statistical Performance

Trail #	Test Freq.	1=Detection	Trail #	Test Freq.	1=Detection
	(MHz)	0=No Detection		(MHz)	0=No Detection
1	5309	1	16	5309	1
2	5309	1	17	5309	1
3	5309	1	18	5309	1
4	5309	1	19	5309	1
5	5309	1	20	5309	1
6	5309	1	21	5309	1
7	5309	1	22	5309	1
8	5309	1	23	5309	1
9	5309	1	24	5309	1
10	5309	1	25	5309	1
11	5309	1	26	5309	1
12	5309	1	27	5309	1
13	5309	1	28	5309	1
14	5309	1	29	5309	1
15	5309	1	30	5309	1
	Det	ection Percentage	(%)		100%



F	Radar waveform #	1	F	Radar waveform #	2
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
1	5327	3	7	5317	21
8	5317	24	10	5332	30
9	5336	27	22	5293	66
19	5285	57	24	5292	72
33	5316	99	29	5297	87
35	5294	105	30	5339	90
39	5305	117	35	5298	105
69	5326	207	43	5318	129
84	5335	252	47	5327	141
87	5339	261	50	5338	150
99	5325	297	54	5288	162
			76	5289	228
			99	5313	297

F	Radar waveform #	3	F	Radar waveform #	4
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
9	5329	27	0	5306	0
20	5324	60	10	5313	30
23	5315	69	15	5329	45
36	5328	108	16	5308	48
38	5280	114	25	5335	75
41	5334	123	28	5296	84
53	5306	159	33	5315	99
71	5326	213	39	5318	117
77	5327	231	47	5312	141
82	5331	246	52	5283	156
84	5320	252	59	5334	177
85	5317	255	60	5300	180
96	5309	288	65	5317	195
			72	5319	216
			85	5281	255



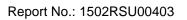
F	Radar waveform #	5	F	Radar waveform #	6
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
37	5316	111	2	5292	6
40	5301	120	9	5328	27
42	5280	126	12	5281	36
47	5299	141	21	5282	63
54	5302	162	33	5327	99
59	5294	177	39	5301	117
60	5285	180	42	5308	126
61	5339	183	58	5311	174
62	5310	186	66	5303	198
72	5284	216	72	5285	216
			74	5287	222
			85	5321	255
			95	5330	285
			96	5314	288

F	Radar waveform #	7	F	Radar waveform #	8
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
1	5289	3	9	5324	27
8	5334	24	15	5338	45
13	5311	39	57	5305	171
18	5310	54	58	5316	174
23	5325	69	61	5280	183
24	5320	72	65	5294	195
38	5293	114	70	5309	210
39	5314	117	72	5310	216
68	5313	204	82	5314	246
72	5333	216	87	5291	261
74	5321	222	92	5281	276
91	5318	273	97	5303	291



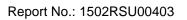
F	Radar waveform #	9	R	adar waveform #	10
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
11	5333	33	0	5303	0
22	5316	66	10	5311	30
37	5303	111	13	5334	39
44	5313	132	29	5322	87
47	5285	141	32	5302	96
55	5337	165	35	5305	105
65	5306	195	41	5299	123
72	5290	216	42	5281	126
98	5312	294	51	5318	153
			66	5283	198
			74	5319	222
			89	5284	267
			98	5336	294

R	Radar waveform #11			Radar waveform #12		
Hopping	Frequency	Pulse Start (ms)	Frequency	Hopping	Pulse Start (ms)	
Number	(MHz)		(MHz)	Number		
0	5286	0	0	5286	0	
2	5290	6	6	5287	18	
15	5283	45	9	5303	27	
16	5319	48	24	5311	72	
20	5311	60	35	5313	105	
34	5315	102	37	5317	111	
41	5316	123	52	5307	156	
47	5329	141	65	5320	195	
66	5293	198	82	5334	246	
67	5292	201	83	5338	249	
76	5281	228	90	5283	270	
92	5321	276				
98	5295	294				





R	adar waveform #	13	R	adar waveform #1	14
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
0	5283	0	0	5300	0
11	5293	33	10	5335	30
12	5315	36	12	5313	36
20	5316	60	13	5319	39
23	5306	69	20	5280	60
41	5303	123	23	5318	69
44	5281	132	25	5336	75
67	5295	201	33	5326	99
77	5286	231	40	5308	120
85	5321	255	41	5324	123
86	5309	258	43	5328	129
87	5285	261	48	5320	144
89	5288	267	64	5333	192
90	5305	270	65	5294	195
99	5308	297	86	5304	258
			96	5285	288
			97	5288	291





R	adar waveform #1	15	R	adar waveform #1	16
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
5	5297	15	18	5328	54
12	5322	36	19	5301	57
19	5301	57	21	5293	63
20	5294	60	34	5282	102
33	5313	99	35	5333	105
34	5280	102	49	5325	147
35	5333	105	50	5332	150
37	5331	111	51	5318	153
48	5305	144	55	5339	165
49	5289	147	59	5283	177
66	5317	198	66	5281	198
70	5320	210	71	5331	213
76	5328	228	84	5336	252
90	5282	270	95	5323	285
96	5291	288			





R	Radar waveform #17			Radar waveform #18		
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)	
Number	(MHz)		Number	(MHz)		
5	5314	15	22	5319	66	
15	5327	45	33	5315	99	
43	5335	129	57	5290	171	
52	5302	156	68	5288	204	
56	5296	168	77	5291	231	
66	5331	198	82	5304	246	
77	5336	231	85	5329	255	
81	5301	243	92	5298	276	
82	5334	246	97	5328	291	
84	5309	252	99	5336	297	
98	5322	294				

R	Radar waveform #19			Radar waveform #20		
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)	
Number	(MHz)		Number	(MHz)		
8	5285	24	10	5290	30	
14	5284	42	36	5289	108	
48	5317	144	43	5321	129	
59	5307	177	59	5280	177	
65	5326	195	73	5324	219	
85	5305	255	77	5336	231	
91	5322	273	82	5294	246	
95	5297	285	87	5302	261	
			88	5320	264	
			90	5311	270	



R	adar waveform #2	21	Radar waveform #22			
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)	
Number	(MHz)		Number	(MHz)		
7	5291	21	2	5283	6	
16	5281	48	3	5281	9	
33	5327	99	6	5321	18	
38	5300	114	11	5290	33	
44	5293	132	28	5338	84	
50	5326	150	29	5322	87	
66	5296	198	57	5339	171	
75	5328	225	60	5295	180	
80	5306	240	62	5303	186	
86	5313	258	69	5314	207	
88	5330	264	72	5312	216	
95	5302	285	78	5319	234	
96	5336	288	80	5306	240	
			82	5291	246	
			83	5280	249	
			90	5317	270	
			91	5296	273	

R	Radar waveform #23			Radar waveform #24		
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)	
Number	(MHz)		Number	(MHz)		
4	5280	12	17	5283	51	
6	5282	18	22	5329	66	
36	5330	108	25	5334	75	
41	5284	123	51	5325	153	
42	5317	126	53	5316	159	
55	5303	165	73	5287	219	
66	5295	198	75	5327	225	
68	5326	204	83	5301	249	
77	5291	231	86	5333	258	
78	5334	234	93	5317	279	
90	5279	270	97	5311	291	



R	Radar waveform #25			Radar waveform #26		
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)	
Number	(MHz)		Number	(MHz)		
7	5299	21	1	5301	3	
27	5286	81	11	5300	33	
61	5280	183	27	5280	81	
79	5307	237	29	5333	87	
81	5308	243	40	5324	120	
84	5282	252	53	5290	159	
87	5339	261	99	5306	297	
88	5332	264				
90	5310	270				

R	adar waveform #2	27	R	adar waveform #2	28
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
5	5324	15	1	5322	3
14	5280	42	3	5323	9
20	5322	60	31	5291	93
31	5338	93	34	5325	102
36	5332	108	44	5283	132
37	5299	111	48	5300	144
48	5333	144	50	5320	150
50	5308	150	52	5332	156
66	5336	198	56	5316	168
70	5294	210	60	5336	180
86	5337	258	62	5302	186
97	5317	291	65	5292	195
98	5329	294	68	5311	204
			91	5305	273
			98	5331	294





R	Radar waveform #29			Radar waveform #30		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)	
18	5339	54	12	5330	36	
22	5324	66	13	5332	39	
43	5287	129	17	5288	51	
46	5333	138	41	5334	123	
60	5312	180	60	5309	180	
65	5305	195	63	5337	189	
76	5338	228	67	5293	201	
77	5286	231	69	5317	207	
80	5283	240	78	5301	234	
85	5282	255	80	5319	240	
91	5318	273	83	5308	249	
			84	5311	252	
			89	5305	267	
			90	5290	270	
			91	5318	273	



Radar Statistical Performance for 802.11n-HT40

Radar Type 1 - Radar Statistical Performance

Trail #	Test Freq.	Pulse Width	PRI (us)	Pulses / Burst	1=Detection
	(MHz)	(us)			0=No Detection
1	5291	1	758	70	1
2	5291	1	618	86	1
3	5291	1	938	57	1
4	5291	1	658	81	1
5	5291	1	878	61	1
6	5291	1	3066	18	1
7	5291	1	918	58	1
8	5291	1	838	63	1
9	5291	1	818	65	1
10	5291	1	778	68	1
11	5291	1	538	99	1
12	5291	1	718	74	1
13	5291	1	638	83	1
14	5291	1	738	72	1
15	5291	1	598	89	1
16	5291	1	592	90	1
17	5291	1	900	59	1
18	5291	1	3019	18	1
19	5291	1	599	89	1
20	5291	1	637	83	1
21	5291	1	1065	50	1
22	5291	1	1270	42	1
23	5291	1	957	56	1
24	5291	1	1699	32	1
25	5291	1	1652	32	1
26	5291	1	1122	48	1
27	5291	1	3059	18	1
28	5291	1	1045	51	1
29	5291	1	2402	22	1
30	5291	1	2203	24	1
	Det	ection Percentage	(%)		100%



Radar Type 2 - Radar Statistical Performance

Trail #	Test Freq.	Pulse Width	PRI (us)	Pulses / Burst	1=Detection
	(MHz)	(us)			0=No Detection
1	5300	4.8	226	28	1
2	5300	3.5	201	28	1
3	5300	3.1	171	28	1
4	5300	2.4	191	29	1
5	5300	3.2	207	25	1
6	5300	3.3	200	23	1
7	5300	2.8	225	24	1
8	5300	1.8	196	28	1
9	5300	1.0	164	23	1
10	5300	3.0	181	23	1
11	5300	3.5	223	27	1
12	5300	4.2	181	24	1
13	5300	2.6	168	23	1
14	5300	3.9	170	27	1
15	5300	2.7	228	28	1
16	5300	1.4	218	25	1
17	5300	3.3	194	25	1
18	5300	2.2	176	27	1
19	5300	4.3	194	27	1
20	5300	4.3	200	25	1
21	5300	2.5	154	26	1
22	5300	3.7	169	26	1
23	5300	1.2	213	28	1
24	5300	3.0	207	25	1
25	5300	3.9	150	25	1
26	5300	1.7	156	26	1
27	5300	2.1	171	27	1
28	5300	2.9	175	28	1
29	5300	2.7	162	29	1
30	5300	2.1	217	29	1
	Det	ection Percentage	(%)		100%



Radar Type 3 - Radar Statistical Performance

Trail #	Test Freq.	Pulse Width	PRI (us)	Pulses / Burst	1=Detection
	(MHz)	(us)			0=No Detection
1	5310	8.2	305	16	1
2	5310	8.1	442	17	1
3	5310	6.4	284	17	1
4	5310	9.3	269	16	1
5	5310	8.8	366	16	0
6	5310	8.6	488	18	1
7	5310	7.5	250	17	1
8	5310	9.0	353	17	1
9	5310	9.2	313	16	1
10	5310	9.8	447	16	1
11	5310	7.7	466	18	1
12	5310	7.1	378	16	1
13	5310	8.7	314	16	1
14	5310	7.5	355	18	1
15	5310	6.5	369	17	1
16	5310	7.7	280	18	1
17	5310	9.9	267	17	1
18	5310	9.7	399	18	1
19	5310	9.9	275	16	1
20	5310	8.1	275	18	1
21	5310	6.3	302	16	1
22	5310	6.8	327	18	1
23	5310	9.7	478	17	1
24	5310	9.2	362	16	1
25	5310	9.3	319	18	1
26	5310	8.5	312	16	1
27	5310	8.8	304	16	0
28	5310	8.0	330	16	1
29	5310	8.6	297	16	1
30	5310	7.5	469	18	1
Detection Percentage (%)					93.3%



Radar Type 4 - Radar Statistical Performance

Trail #	Test Freq.	Pulse Width	PRI (us)	Pulses / Burst	1=Detection
	(MHz)	(us)			0=No Detection
1	5315	17.1	377	13	1
2	5315	15.0	463	15	1
3	5315	18.7	481	12	1
4	5315	19.5	323	16	1
5	5315	13.2	447	13	1
6	5315	13.3	301	16	1
7	5315	18.6	271	16	1
8	5315	14.8	495	13	1
9	5315	12.0	444	13	1
10	5315	15.6	352	12	1
11	5315	16.1	402	12	1
12	5315	14.0	352	12	1
13	5315	14.8	493	12	1
14	5315	12.9	380	16	1
15	5315	13.9	475	13	1
16	5315	13.0	321	15	1
17	5315	19.3	290	13	1
18	5315	19.5	348	16	1
19	5315	15.4	250	16	1
20	5315	16.1	340	16	1
21	5315	17.9	462	13	1
22	5315	18.9	301	14	1
23	5315	19.9	417	13	1
24	5315	13.0	250	16	1
25	5315	17.3	403	12	1
26	5315	19.4	426	15	1
27	5315	17.0	451	16	1
28	5315	11.7	277	13	1
29	5315	12.1	359	16	1
30	5315	12.4	426	13	1
	Det	ection Percentage	(%)		100%

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

waveforms is as follows: $\frac{P_d 1 + P_d 2 + P_d 3 + P_d 4}{4} = (100\% + 100\% + 93.3\% + 100\%)/4 = 98.3\% (>80\%)$

FCC ID: 2ABLK-8X4G-1V2 Page Number: 73 of 122





Radar Type 5 - Radar Statistical Performance

Trail #	Test Freq.	1=Detection	Trail #	Test Freq.	1=Detection
	(MHz)	0=No Detection		(MHz)	0=No Detection
1	5320	1	16	5320	1
2	5320	1	17	5320	1
3	5320	1	18	5320	1
4	5320	1	19	5320	1
5	5320	1	20	5320	1
6	5320	1	21	5320	1
7	5320	1	22	5320	1
8	5320	1	23	5320	1
9	5320	1	24	5320	1
10	5320	1	25	5320	1
11	5320	1	26	5320	1
12	5320	1	27	5320	1
13	5320	1	28	5320	1
14	5320	1	29	5320	1
15	5320	1	30	5320	1
	Det	ection Percentage	(%)		100%

	Type 5 Radar Waveform_1											
Waveform Num of Bures Burst Inter-Burst In		Pulses 3 2 1 2 2 3 3 2 3 3 2 1 3 3 1 1 3 1	Chirp (MHz) 20 16 19 20 14 8 8 6 10 12 5 18 11 12 11 10 15	Fw (um) 60 95 70 70 85 55 100 80 55 80 100 75 80 100 50 60	Fulse 1 Pri (us) 1774 1805 1252 1493 1742 1945 1542 1990 1898 1451 1563 1673 1928 1611 1981 1342 1244	Pulme 2 Pri (um) 1376 1807 0 1106 1915 1765 1802 1469 1026 1341 1771 1753 0 1757 1746 0	Pulme 3 Pri(um) 1533 0 0 0 0 0 1317 0 1453 1147 0 0 0 1717 1265 0	Start Loc (us) t 63069 769347 1275498 2281481 2457791 3321222 4089172 4258348 5349553 5544666 622957 6820611 7350769 8145546 8968246 9241753 9828191	Start Burst Interval(us) 0 600000 1200000 1800000 2400000 3600000 4200000 4200000 5400000 7200000 7200000 7200000 9600000 9600000 9600000 9600000 9600000	End Burst Interval(us) 500909 1100909 1700909 2309090 2309090 4100909 4700909 5309090 6590909 7700909 8309090 9500909 10190909		
19 20 Total numbe	290774 743930 r of pulses in	3 1 waveform = 4	10 5	95 55	1991 1712	1023 1241	1012 1280	11079488 11827444	10800000 11400000	11399999 11999999		



				Type	5 Radar W	laveform_	_2			
aveform N um of Bur urst Inte	Num = 2 rsts = 12 erva1 (us)= 1000	0000								
urst	Off Time (us)	# Pulses	Chirp (MHz)	P₩ (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us	End Burst Interval(u
1	735493	2	10	85	1778	1982	0	735493	0	999999
2	954237	3	9	85	1981	1031	1994	1693490	1000000	1999999
	348875									
3	1013744	1	9	85	1882	0	0	2047371	2000000	2999999
4	1581435	2	13	50	1927	1393	0	3062997	3000000	3999999
5	838473	3	15	75	1416	1200	1186	4647752	4000000	4999999
â	1127743	3	9	85	1509	1667	1856	5490027	5000000	5999999
7		2	18	90	1206	1754	0	6622802	6000000	6999999
3	620949	2	6	75	1617	1931	0	7246711	7000000	7999999
)	1475141	3	13	80	1144	1732	1062	8725400	8000000	8999999
.0	1241981	3	6	50	1040	1479	1328	9971319	9000000	9999999
11	860854	2	9	90	1677	1616	0	10836020	10000000	10999999
	513264	2	9	85	1387		0			
l2 otal numb *******	per of pulses in	n waveform = 2	28		1301	1861 **	0	11352577	11000000	11999999
				Туре	5 Radar W	/aveform_	_3			
veform l	Num = 4 rsts = 14 erval (us)= 857:	142								
rst	Off Time	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burs Interval(us	
	731821	2	10	100	1915	1727	0	731821	0	857142
	464066	3	15	60	1158	1509	1837	1199529	857143	1714285
	1079656	1	12	80	1140	0	0	2283689	1714286	2571428
	667967	1	5	50	1828	0	0	2952796	2571429	3428571
	1031785	3	6	90	1715	1265	1984	3986409	3428572	4285714
	1047211	2	14	80	1352	1962	0	5038584	4285715	5142857
	936199	2	7	85	1511	1353	0	5978097	5142858	6000000
	587451	3	13	70	1797	1549	1108	6568412	6000001	6857143
	640757	1	5	75	1133	0	0	7213623	6857144	7714286
0	1048601	3	16	100	1246	1638	1269	8263357	7714287	8571429
1	580971	2	11	60	1359	1304	0	8848481	8571430	9428572
2	785733	1	17	75	1583	0	0	9636877	9428573	10285715
3	1351335	1	8	55	1478	0	0	10989795	10285716	11142858
	522023 ber of pulses in			55	1905	1891	1894	11513296	11142859	12000001
					5 Radar W		4			
veform l	Num = 4			1,700	o Radai Vi	averonii_	- - -			
m of Bu	rsts = 11 erval (us)= 1090	909								
rst	Off Time (us) 559767	# 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)
	1097795	2	10	95	1607	1328	0	559767	0	1090908
	739856	1	11	50	1199	0	0	1660497	1090909	2181817
ı		3	12	80	1690	1400	1149	2401552	2181818	3272726
	1120275	1	13	95	1050	0	0	3526066	3272727	4363635
	1057253	3	18	75	1347	1928	1815	4584369	4363636	5454544
1	1834374	1	17	75	1927	0	0	6423833	5454545	6545453
	1114591									
,	980843	2	7	65	1110	1391	0	7540351	6545454	7636362
3	313535	1	5	100	1503	0	0	8523695	7636363	8727271
9		1	12	55	1705	0	0	8838733	8727272	9818180
.0	2005622	2	19	55	1807	1175	0	10846060	9818181	10909089
.0										
.1	958632	3	8	50	1339	1045	1305	11807674	10909090	11999998



				Туре	5 Radar W	aveform_	5			
Vaveform N	um = 5									
	sts = 18 rva1 (us) = 6666	67								
Burst ¥	Off Time (us) 57708	# 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		3	17	80	1969	1286	1442	57708	0	666666
2	1146562 700557	2	6	95	1452	1050	0	1208967	666667	1333333
3	423295	1	10	65	1432	0	0	1912026	1333334	2000000
4	419914	3	8	100	1580	1528	1614	2336753	2000001	2666667
5	771982	2	15	65	1321	1463	0	2761389	2666668	3333334
6	518421	2	9	80	1024	1528	0	3536155	3333335	4000001
7	877077	1	17	75	1562	0	0	4057128	4000002	4666668
9	793187	3 1	12 12	60 50	1456 1093	1866 0	1207 0	4935767 5733483	4666669 5333336	5333335 6000002
10	845404	3	11	90	1004	1741	1776	6579980	6000003	6666669
11	653246	1	5	95	1865	0	0	7237747	6666670	7333336
12	689178	1	8	60	1773	0	0	7928790	7333337	8000003
13	684057	3	18	55	1385	1664	1746	8614620	8000004	8666670
14	407165	2	19	50	1122	1184	0	9026580	8666671	9333337
15	757739	3	10	65	1032	1709	1583	9786625	9333338	10000004
16	423448 887768	3	15	70	1365	1283	1460	10214397	10000005	10666671
17	795171	3	19	60	1035	1884	1388	11106273	10666672	11333338
18 otal numb	er of pulses in	2 waveform = 3	15 39	75	1596	1599	0	11905751	11333339	12000005
	nije nije nije nije nije nije nije nije					****				
				Туре	5 Radar W	aveform_	.6			
weform Nu um of Burs	sts = 13									
urst Inter urst	rval (us)= 9230 Off Time	#	Chirp	₽₩	Pulse 1	Pulse 2	Pulse 3	Start Loc	Start Burst	End Burst
	(us) 172968	Pulses	(MHz)	(us)	Pri(us)	Pri (us)	Pri(us)	(us)	Interval (us)	Interval (us
1		2	10	65	1700	1566	0	172968	0	923076
2	1107866	1	17	80	1804	0	0	1284100	923077	1846153
	1325703	3	15	70	1274	1853	1853	2611607	1846154	2769230
3	1035822									
4	772855	2	19	80	1741	1230	0	3652409	2769231	3692307
5		1	17	85	1882	0	0	4428235	3692308	4615384
ò	724711	2	16	60	1411	1131	0	5154828	4615385	5538461
7	562801	1	5	50	1795	0	0	5720171	5538462	6461538
3	1121718	2	16	95	1644	1361	0	6843684	6461539	7384615
	816407									
9	1378988	1	9	95	1443	0	0	7663096	7384616	8307692
10		3	9	90	1478	1389	1305	9043527	8307693	9230769
11	731123	1	20	70	1643	0	0	9778822	9230770	10153846
12	1036052	1	7	60	1164	0	0	10816517	10153847	11076923
	561023	3							11076924	
3 tal numbe *****	er of pulses in	waveform = 2	20 23 *******	60 ******	1710 ******	1674 **	1696	11378704	110/6924	12000000
				Typo	5 Radar W	lavoform	7			
				турс	J Kauai W	avelonii_	.1			
veform N m of Bur: rst Inte:	um = 7 sts = 12 rva1 (us)= 1000	000								
ırst	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(
	518183	3	8	100	1735	1242	1561	518183	0	999999
	1073791									
2	1098150	2	13	75	1582	1018	0	1596512	1000000	1999999
3		2	19	65	1960	1746	0	2697262	2000000	2999999
1	452385	2	14	85	1464	1727	0	3153353	3000000	3999999
5	883102	2	12	80	1250	1045	0	4039646	4000000	4999999
	1808266									
j.	835932	2	8	90	1619	1170	0	5850207	5000000	5999999
,		3	13	95	1762	1202	1248	6688928	6000000	6999999
3	382271	2	14	55	1195	1591	0	7075411	7000000	7999999
,)	1186731									
	1141464	1	13	95	1883	0	0	8264928	8000000	8999999
.0	1146005	1	5	95	1945	0	0	9408275	9000000	9999999
.1		3	13	75	1326	1422	1911	10556225	10000000	10999999
	1156005									
2	1130003	3	15	55	1631	1034	1809	11716889	11000000	11999999



				Туре	5 Radar W	aveform_	8			
weform No um of Bur: urst Inte:	um = 8 sts = 17 rva1 (us)= 7058	382								
ırst	Off Time	# 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
	(us) 537406	3	8	85	1528	1668	1434	537406	0	705881
	349810	1	16	65	1340	0	0	891846	705882	1411763
	703436	1	15	50	1426	0	О	1596622	1411764	2117645
	569252	2	14	65	1267	1984	0	2167300	2117646	2823527
	794445	2	15	90	1118	1081	0	2964996	2823528	3529409
	961766 958806	3	13	65	1393	1910	1135	3928961	3529410	4235291
	307893	2	10	90	1042	1021	0	4892205	4235292	4941173
	712979	3	15	70	1652	1522	1323	5202161	4941174	5647055
	444302	3	20	80	1973	1753	1108	5919637	5647056	6352937
	1350058	1	17	60	1814	0	0	6368773	6352938	7058819
	531647	1	8	85	1626	0	0	7720645	7058820	7764701
	810363	3	20	90	1793	1381	1396	8253918	7764702	8470583
	289637	3	7	90	1732	1677	1228	9068851	8470584	9176465
	1067228	3	9 10	100 65	1312 1964	1858 0	1232 0	9363125	9176466 9882348	9882347 10588229
	198305	2	11	60	1491	1910	0	10434755 10635024	10588230	11294111
	1293096	2	16	55	1107	1657	0	11931521	11294112	11999993
al numb	er of pulses in	waveform = 3	6				ŭ	11301021	11231112	11000000
				Туре	5 Radar W	aveform_	.9			
eform N	sts = 13									
st Inte	rva1 (us)= 9230									
st	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(u
	894082	3	19	55	1723	1998	1394	894082	0	923076
	431600									1846153
	1139092	2	13	75	1702	1238	0	1330797	923077	
	988254	2	11	50	1886	1235	0	2472829	1846154	2769230
	984394	2	9	65	1079	1913	0	3464204	2769231	3692307
		2	12	50	1808	1119	0	4451590	3692308	4615384
	1011115	2	7	70	1349	1271	0	5465632	4615385	5538461
	439230	3	14	60	1970	1117	1132	5907482	5538462	6461538
	1039929	2	8	55	1653	1371	0	6951630	6461539	7384615
	916462									
	1171356	2	17	65	1988	1265	0	7871116	7384616	8307692
	289344	2	5	90	1294	1821	0	9045725	8307693	9230769
		2	14	65	1161	1865	0	9338184	9230770	10153846
	1247381	1	14	100	1945	0	0	10588591	10153847	11076923
	1027128	3	13	100	1789	1978	1854	11617664	11076924	12000000
al numb ******	er of pulses in	n waveform = 2	28	******						
				Туре	5 Radar Wa	aveform_	10			
eform No	um = 10 sts = 12 rva1 (us)= 1000	2000								
st inte. st	Off Time	#	Chirp	₽₩	Pulse 1	Pulse 2	Pulse 3	Start Loc	Start Burst	End Burst
	(us) 147965	Pulses	(MHz)	(us)	Pri(us)	Pri(us)	Pri(us)	(us)	Interval (us)	Interval (us
	1070015	1	13	75	1221	0	0	147965	0	999999
		2	6	80	1842	1077	0	1219201	1000000	1999999
	905876	1	10	65	1973	0	0	2127996	2000000	2999999
	1705203	1	9	55	1258	0	0	3835172	3000000	3999999
	209699									
	1019782	3	15	70	1079	1485	1631	4046129	4000000	4999999
	1764410	2	18	80	1238	1809	0	5070106	5000000	5999999
		1	16	50	1402	0	0	6837563	6000000	6999999
	664290	1	18	95	1532	0	0	7503255	7000000	7999999
	1024604									
	1348933	2	18	60	1520	1810	0	8529391	8000000	8999999
	1013257	1	8	100	1656	0	0	9881654	9000000	9999999
	1010501	3	17	70	1161	1839	1895	10896567	10000000	10999999
	000000									
	287575 er of pulses in	1	6	95	1532	0	0	11189037	11000000	11999999



				Type !	5 Radar Wa	veform_1	11			
veform N um of Bur urst Inte	Jum = 11 rsts = 13 rva1 (us)= 9230	077								
rst	Off Time (us)	# Pulses	Chirp (MHz)	P₩ (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(u
	455768	3	17	50	1778	1357	1424	455768	0	923076
	951394	2	13	60	1873	1540	0	1411721	923077	1846153
	1156367	1	18	65	1093	0	0	2571501	1846154	2769230
	573733	2	7	50	1792	1276	0	3146327	2769231	3692307
	1208323	2	13	70	1140	1014	0	4357718	3692308	4615384
	1054905	1	11	85	1561	0	0	5414777	4615385	5538461
	782625	3	7	60	1125	1275	1604	6198963	5538462	6461538
	691685	3	11	60	1730	1124	1382	6894652	6461539	7384615
	508997	1	12	90	1425	0	0	7407885	7384616	8307692
	1072997	1	9	55	1312	0	0	8482307	8307693	9230769
	1531905	2	20	100	1726	1083	0	10015524	9230770	10153846
2	347795	2	14	55	1570	1649	0	10366128	10153847	11076923
3	1089265	3	12	55	1264	1698	1061	11458612	11076924	12000000
al numk ******	er of pulses ir	n waveform = 2	26	******						
				Type (5 Radar Wa	aveform_1	12			
eform N	Num = 12 ests = 13									
st Inte	erval (us)= 9230 Off Time)77 #	Chirp	₽₩	Pulse 1	Pulse 2	Pulse 3	Start Loc	Start Burst	End Burst
	(us) 912244	Pulses	Chirp (MHz)	(us)	Pri(us)	Pri(us)	Pri(us)	(us)	Interval (us)	Interval (us
	909468	2	17	60	1249	1910	0	912244	0	923076
	809030	3	19	90	1093	1780	1042	1824871	923077	1846153
	865825	3	20	80	1260	1798	1504	2637816	1846154	2769230
	474855	1	15	80	1970	0	0	3508203	2769231	3692307
	1114060	2	12	55	1417	1718	0	3985028	3692308	4615384
	835596	2	20	90	1715	1132	0	5102223	4615385	5538461
	1175323	1	7	75	1633	0	0	5940666	5538462	6461538
	610547	3	16	75	1724	1816	1409	7117622	6461539	7384615
	915633	2	10	85	1462	1724	0	7733118	7384616	8307692
	672066	2	11	85	1415	1190	0	8651937	8307693	9230769
	1372611	1	14	50	1877	0	0	9326608	9230770	10153846
	1372011	1	11	60	1731	0	0	10701096	10153847	11076923
	1964990	-								
al numb	1264230 er of pulses in	1 n waveform = 2	14 24	90	1093	0	0	11967057	11076924	12000000
al numb	er of pulses in	1 n waveform = 2	24		1093		0	11967057	11076924	12000000
al numb	er of pulses in	1 n waveform = 2	24			ko#c		11967057	11076924	12000000
al numb ****** eform N of Bur	er of pulses in ************************************	1 n waveform = 2 ************	24		okoleokoleokoleokoleokoleokoleok	ko#c		11967057	11076924	12000000
al numb ****** eform N of Bur st Inte	our = 13 sts = 10 rval (us) = 1200 Off Time (us)	1 n waveform = 2 ************	24		okoleokoleokoleokoleokoleokoleok	ko#c		Start Loc	11076924 Start Burst Interval(us)	End Burst
al numb ****** eform N of Bur st Inte	oum = 13 sts = 10 Off Time (us) 1109971	1 n waveform = 2 ***********************************	24 ********** Chirp	Type (5 Radar Wa	aveform_1 Pulse 2	Pulse 3	Start Loc	Start Burst	End Burst
al numb ****** eform N of Bur st Inte	our = 13 sts = 10 rval (us) = 1200 Off Time (us)	1 waveform = 5 ***********************************	24 ****** Chirp (MHz) 19	Type \$	Pulse 1 Pri(us)	Pulse 2 Pri (us)	Pulse 3 Pri(us) 1696	Start Loc (us) 1109971	Start Burst Interval(us)	End Burst Interval(us 1199999
al numb ****** eform N of Bur st Inte	oum = 13 sts = 10 Off Time (us) 1109971	1 waveform = 2 **********************************	24 ******* Chirp (MHz) 19 18	Type \$ PW (us) 100 80	Pulse 1 Pri (us) 1885 1235	Pulse 2 Pri(us) 1662 1381	Pulse 3 Pri(us) 1696 1534	Start Loc (us) 1109971 1793237	Start Burst Interval(us) 0 1200000	End Burst Interval(us 119999 2399999
al numb ****** eform N of Bur st Inte	tum = 13 sts = 10 rval (us) = 1200 Off Time (us) 1109971 678023	1 waveform = 2 **********************************	24 ************* Chirp (MHz) 19 18 6	Type \$ P\((us) \) 100 80 85	Pulse 1 Pri(us) 1885 1235 1678	Pulse 2 Pri(us) 1662 1381 1705	Pulse 3 Pri(us) 1696 1534 1183	Start Loc (us) 1109971 1793237 2407483	Start Burst Interval(us) 0 1200000 2400000	End Burst Interval (us 1199999 2399999 3599999
al numb ****** eform N of Bur st Inte	our of pulses in ***********************************	1 waveform = 2 **********************************	24 ******* Chirp (MHz) 19 18	Type \$ PW (us) 100 80	Pulse 1 Pri (us) 1885 1235	Pulse 2 Pri(us) 1662 1381	Pulse 3 Pri(us) 1696 1534	Start Loc (us) 1109971 1793237	Start Burst Interval(us) 0 1200000	End Burst Interval(us 119999 2399999
al numb ****** eform N of Bur st Inte	oum = 13 sts = 10 rval (us) = 1200 Off Time (us) 1109971 678023 610096 1625876 1158751	1 waveform = 2 **********************************	24 ************* Chirp (MHz) 19 18 6	Type \$ PW (us) 100 80 85	Pulse 1 Pri(us) 1885 1235 1678	Pulse 2 Pri(us) 1662 1381 1705	Pulse 3 Pri(us) 1696 1534 1183	Start Loc (us) 1109971 1793237 2407483	Start Burst Interval(us) 0 1200000 2400000	End Burst Interval (us 1199999 2399999 3599999
al numb ****** eform N of Bur st Inte	oum = 13 sts = 10 rval (us) = 1200 Off Time (us) 1109971 678023 610096 1625876 1158751 1529705	1 waveform = 2 **********************************	Chirp (MHz) 19 18 6 10	PW (us) 100 80 85 60	Pulse 1 Pri(us) 1885 1235 1678 1225	Pulse 2 Pri(us) 1662 1381 1705 1301	Pulse 3 Pri(us) 1696 1534 1183	Start Loc (us) 1109971 1793237 2407483 4037925	Start Burst Interval(us) 0 1200000 2400000 3600000	End Burst Interval (us 119999 239999 359999 4799999
al numb	oum = 13 sts = 10 rval (us) = 1200 Off Time (us) 1109971 678023 610096 1625876 1158751	1 waveform = 2 2 2 2	Chirp (MHz) 19 18 6 10 16	Type \$ PW (us) 100 80 85 60 100 55	Pulse 1 Pri(us) 1885 1235 1678 1225 1644 1576	Pulse 2 Pri (us) 1662 1381 1705 1301 1375 1160	Pulse 3 Pri(us) 1696 1534 1183 1488 0	Start Loc (us) 1109971 1793237 2407483 4037925 5200690 6733414	Start Burst Interval(us) 0 1200000 2400000 3600000 4800000 6000000	End Burst Interval (us 119999 239999 359999 479999 599999 7199999
al numb	oum = 13 sts = 10 rval (us) = 1200 Off Time (us) 1109971 678023 610096 1625876 1158751 1529705	1 waveform = 2 1 1 1 2 2 2 2	Chirp (MHz) 19 18 6 10 16 19	PW (us) 100 80 85 60 100 55	Pulse 1 Pri(us) 1885 1235 1678 1225 1644 1576	Pulse 2 Pri(us) 1662 1381 1705 1301 1375 1160 1869	Pulse 3 Pri(us) 1696 1534 1183 1488 0	Start Loc (us) 1109971 1793237 2407483 4037925 5200690 6733414 8014618	Start Burst Interval(us) 0 1200000 2400000 3600000 4800000 6000000 7200000	End Burst Interval(us 1199999 2399999 3599999 4799999 7199999 8399999
eform N	oum = 13 sts = 10 rval (us) = 1200 Off Time (us) 1109971 678023 610096 1625876 1158751 1529705 1278468	1 waveform = 2 2 2 2	Chirp (MHz) 19 18 6 10 16 19 19	PW (us) 100 80 85 60 100 55 80 65	Pulse 1 Pri (us) 1885 1235 1678 1225 1644 1576 1137 1002	Pulse 2 Pri(us) 1662 1381 1705 1301 1375 1160 1869 1692	Pulse 3 Pri(us) 1696 1534 1183 1488 0 0	Start Loc (us) 1109971 1793237 2407483 4037925 5200690 6733414	Start Burst Interval (us) 0 1200000 2400000 3600000 4800000 7200000 8400000	End Burst Interval (us 1199999 2399999 3599999 4799999 5999999 7199999 8399999
eform N	tum = 13 sts = 10 rval (us) = 1200 Off Time (us) 1109971 678023 610096 1625876 1158751 1529705 1278468 779495	1 waveform = 2 1 1 1 2 2 2 2	Chirp (MHz) 19 18 6 10 16 19	PW (us) 100 80 85 60 100 55	Pulse 1 Pri(us) 1885 1235 1678 1225 1644 1576	Pulse 2 Pri(us) 1662 1381 1705 1301 1375 1160 1869	Pulse 3 Pri(us) 1696 1534 1183 1488 0	Start Loc (us) 1109971 1793237 2407483 4037925 5200690 6733414 8014618	Start Burst Interval(us) 0 1200000 2400000 3600000 4800000 6000000 7200000	End Burst Interval(us 1199999 2399999 3599999 4799999 7199999 8399999



				Type	5 Radar Wa	aveform_	14			
	Num = 14									
m of bur rst Inte	rsts = 9 erval (us)= 1333	3333								
rst	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)
	200935	2	14	65	1346	1634	0	200935	0	1333332
	2087423	1	12	90	1609	0	0	2291338	1333333	2666665
	635609	1	17	80	1547	0	0	2928556	2666666	3999998
	1973622	1	10	90	1508	0	0	4903725	3999999	5333331
	652239	2	6	55	1789	1123	0	5557472	5333332	6666664
	2218050	3	15	50	1709	1371	1774	7778434	6666665	7999997
	743226	2	17	55	1070	1277	0	8526514	7999998	9333330
	1897682			90		0	0	10426543		
	1403605	1	15		1026		-		9333331	10666663
	per of pulses in			95	1044	1538	0	11831174	10666664	11999996
			*******			co k c				
				Type	5 Radar Wa	aveform_	15			
reform N	Num = 15									
n of Bur	rsts = 9 erval (us)= 1333	3333								
st	Off Time	#	Chirp	₽₩	Pulse 1	Pulse 2	Pulse 3	Start Loc	Start Burst	End Burst
50	(us) 193788	 Pulses	(MHz)	(us)	Pri(us)	Pri(us)	Pri(us)	(us)	Interval (us)	Interval (u:
		1	17	100	1200	0	0	193788	0	1333332
	2215619	2	18	50	1109	1410	0	2410607	1333333	2666665
	1493814	2	8	80	1843	1185	0	3906940	2666666	3999998
	543029	3	13	65	1417	1181	1161	4452997	3999999	5333331
	1061446	2	16	60	1118	1269	0	5518202	5333332	6666664
	1625379	1	16	55	1875	0	0	7145968	6666665	7999997
	2001191									
	1392756	2	15	65	1924	1326	0	9149034	7999998	9333330
	1347062	2	17	75	1254	1384	0	10545040	9333331	10666663
al numb	ber of pulses in	2 n waveform =	9	80	1572	1969	0	11894740	10666664	11999996
****	******	******	*****	*****		**				
				Type	5 Radar Wa	aveform_	16			
eform l	Num = 16 rsts = 17	200								
st inte st	erval (us)= 7058 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(u
	144343	ruises 1	14	65	1006	0	0	144343	0	705881
	991402 498568	3	6	55	1029	1249	1869	1136751	705882	1411763
	540842	1	15 17	85 60	121 4 1823	0	0	1639466 2181522	1411764 2117646	2117645 2823527
	1224740 662704	2	11	55	1753	1576	0	3408085	2823528	3529409
	718119	2	16 17	60 90	1301 1205	12 4 2 0	0	4074118 4794780	3529410 4235292	4235291 4941173
	467756 552252	1	6	100	1002	0	0	5263741	4941174	5647055
	1140564	3	15 7	55 65	1649	1694	1941 0	5816995	5647056	6352937
		2	7 14	65 55	1068 1606	1837 1979	0 1552	69628 4 3 7197156	6352938 7058820	7058819 7764701
	231408		Б	55	1080	1141	1618	8045416	7764702	8470583
L 2	843123	3				1697	1789	8950781	8470584	9176465
2 3		3	17 7	55 55	1087 1810					9882247
L 2 3	843123 901526 358992 786187		17 7 7	55 55 50	1087 1810 1373	1950 1476	1586 1410	931 434 6 10105879	9176466 9882348	98823 4 7 10588229
0 1 2 3 4 5 6	843123 901526 358992	3	7	55	1810	1950	1586	9314346	9176466	



				Туре	5 Radar W	aveform_	17			
aveform N um of Bur urst Inte	Jum = 17 rsts = 13 erva1 (us)= 9230	77								
urst	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	164108	1	10	90	1941	0	0	164108	0	923076
2	1114720	1	17	65	1403	0	0	1280769	923077	1846153
3	1046351	3	16	70	1482	1813	1163	2328523	1846154	2769230
4	881490	3	11	60	1989	1643	1935	3214471	2769231	3692307
5	607683	3	15	100	1238	1319	1195	3827721	3692308	4615384
ò	1491318	3	6	75	1973	1442	1668	5322791	4615385	5538461
,	636395	1	14	60	1472	0	0	5964269	5538462	6461538
	984720	1	17	85	1347	0	0	6950461	6461539	7384615
	633903	2	15	95	1497	1344	0	7585711	7384616	8307692
)	1093238	1	8	70	1477	0	0	8681790	8307693	9230769
	1409683									
1	842043	2	13	80	1197	1184	0	10092950	9230770	10153846
2	169670	1	15	80	1397	0	0	10937374	10153847	11076923
	er of pulses in			65 ******	1608 ******	0	0	11108441	11076924	12000000
				Туре	5 Radar W	aveform_	18			
m of Bur	Num = 18 rsts = 16									
rst Inte rst	erval (us)= 7500 Off Time	#	Chirp (MHz)	P.W	Pulse 1 Pri(us)	Pulse 2	Pulse 3	Start Loc	Start Burst	End Burst
	(us) 239 4 62	Pulses		(us)		Pri(us)	Pri(us)	(us)	Interval (us)	Interval (u
	856668	2	19 15	90 75	1566 1637	0 1749	0	239462 1097696	0 750000	749999 1499999
	528793	2	5	85	1644	1267	0	1629875	1500000	2249999
	943350	3	17	70	1301	1006	1689	2576136	2250000	2999999
	946843	1	10	75	1056	0	0	3526975	3000000	3749999
	382792	1	20	95	1729	0	0	3910823	3750000	4499999
	890531	2	10	75	1121	1022	0	4803083	4500000	5249999
	889834	2	12	90	1664	1239	0	5695060	5250000	5999999
	499513 982002	1	13	85	1859	0	0	6197476	6000000	6749999
0	735390	1	5	80	1226	0	0	7181337	6750000	7499999
1	640266	2	6	90	1939	1333	0	7917953	7500000	8249999
2	659859	2	13	100	1728	1569	0	8561491	8250000	8999999
3	779153	1	14	55	1406	0	0	9224647	9000000	9749999
4	911391	1	8	95	1925	0	0	10005206	9750000	10499999
5	628262	2	14 9	90 95	1059 1604	1548 1487	0	10918522 11549391	10500000 11250000	11249999 11999999
5 tal numb	ber of pulses in		26		1604		0	11549391	11250000	11999999
				Туре	5 Radar W	aveform_	19			
m of Bur	Num = 19 rsts = 11 erval (us)= 1090	าดกด								
rst	Off Time	# 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(u
	971397	1	7	75	1562	0	0	971397	0	1090908
	1185757	1	9	55	1080	0	0	2158716	1090909	2181817
	603362	3	7	65	1264	1984	1416	2763158	2181818	3272726
	1541833									
	202814	2	5	80	1383	1810	0	4309655	3272727	4363635
	1123928	1	15	50	1919	0	0	4515662	4363636	5454544
		2	15	55	1135	1989	0	5641509	5454545	6545453
	975275	1	19	95	1086	0	0	6619908	6545454	7636362
	1506432	1	16	65	1832	0	0	8127426	7636363	8727271
	1136710									
		2	11	75	1119	1458	0	9265968	8727272	9818180
	1015944									
0	10159 44 993118	3	5	95	1245	1850	1885	10284489	9818181	10909089



				Type	5 Radar Wa	aveform_2	20			
aveform Num of Burs	um = 20 sts = 16 rva1 (us)= 7500	100								_
urst Inter urst !	rval (us)= 7500 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	132607	ruises 1	18	(us) 85	1405	0	0	132607	O (us)	749999
2	681516	2	11	95	1068	1019	0	815528	750000	1499999
3	1384193	3	18	75	1951	1959	1386	2201808	1500000	2249999
4	359016	1	10	100	1883	0	0	2566120	2250000	2999999
5	718112	3	16	100	1455	1290	1605	3286115	3000000	3749999
6	847079	1	11	70	1640	0	0	4137544	3750000	4499999
7	769141	1	12	55	1564	0	0	4908325	4500000	5249999
8	375554 1365949	3	11	85	1380	1639	1379	5285443	5250000	5999999
9	574091	1	19	100	1624	0	О	6655790	6000000	6749999
10	283227	1	17	55	1436	0	0	7231505	6750000	7499999
11	742679	2	12	70	1018	1147	0	7516168	7500000	8249999
12	1379903	1	15	50	1700	0	0	8261012	8250000	8999999
13	657797	2	15	75	1935	1685	0	9642615	9000000	9749999
14	670650	2	18	55	1645	1368	0	10304032	9750000	10499999
15	327098	3	15	60	1228	1871	1848	10977695	10500000	11249999
16 otal numbe	er of pulses in	3 waveform = 3	17	95	1865	1534	1458	11309740	11250000	11999999
		1 MATERIAL THE	1941 1941 1941 1941 1941 1941 1941 1941	#C 0#C 0#C 0#C 0#C 0#C 0#C 0#C 0#C 0#C 0	nde ndernde ndernde ndernde ndernde ndernde ndernde ndernde	ko#				
				Type	5 Radar Wa	aveform_	21			
aveform Num of Bursurst Inte	ium = 21 sts = 14 rva1 (us)= 857:	143								
Burst f	Off Time	#	Chirp	₽₩	Pulse 1	Pulse 2	Pulse 3	Start Loc	Start Burst	End Burst
	(us) 363808	Pulses	(MHz)	(us)	Pri(us)	Pri(us)	Pri(us)	(us)	Interval (us)	Interval(us
1	806560	3	13	65	1224	1476	1069	363808	0	857142
2	1094265	2	6	55	1734	1255	0	1174137	857143	1714285
3	1118644	3	17	55	1923	1882	1288	2271391	1714286	2571428
4	601134	2	6	50	1207	1393	0	3395128	2571429	3428571
5	997440	1	17	60	1007	0	0	3998862	3428572	4285714
6	418486	3	17	55	1351	1258	1298	4997309	4285715	5142857
7		2	11	100	1117	1240	0	5419702	5142858	6000000
8	906278	2	6	65	1181	1946	0	6328337	6000001	6857143
9	1075406	1	12	80	1227	0	0	7406870	6857144	7714286
10	1030327	3	12	70	1925	1908	1738	8438424	7714287	8571429
11	325950	3	6	65	1127	1194	1004	8769945	8571430	9428572
12	660807	2	20	50	1974	1769	0	9434077	9428573	10285715
13	1697152	3	9	50	1890	1289	1015	11134972	10285716	11142858
	594017	3	-	75	1149	1066	1829	11733183	11142859	12000001
14 otal numb *****	er of pulses in	n waveform = 3	17 33 ********		1149		1829	11733183	11142859	12000001
				Type	5 Radar Wa	aveform :	22			
veform N	ium = 22			Турс	J Kadai W					
aveform No um of Bur urst Inte	sts = 16 rva1 (us)= 7500	000								
urst	Off Time	# 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(u
1	688064	3	7	95	1698	1662	1813	688064	0	749999
2	528372	3	13	80	1725	1322	1672	1221609	750000	1499999
3	509930	2	5	75	1480	1968	0	1736258	1500000	2249999
4	713467	1	5	55	1191	0	0	2453173	2250000	2999999
5	863051	3	17	85	1260	1989	1979	3317415	3000000	3749999
ò	1117608	1	18	55	1696	0	0	4440251	3750000	4499999
7	185692	1	17	70	1260	0	0	4627639	4500000	5249999
3	1260690	2	13	50	1223	1222	0	5889589	5250000	5999999
Э	711047	1	14	75	1683	0	0	6603081	6000000	6749999
10	248603	1	20	55	1514	0	0	6853367	6750000	7499999
11	1092760 585973	2	11	85	1589	1382	0	7947641	7500000	8249999
12		2	10	65	1375	1384	0	8536585	8250000	8999999
	1186822	3	9	65	1061	1897	1015	9726166	9000000	9749999
13										
13 14	126390	2	20	60	1710	1830	0	9856529	9750000	10499999
	126390 642861 1469266	2	20 14	60 65	1710 1523	1830 0	0	9856529 10502930	9750000 10500000	10499999 11249999



				Type	5 Radar Wa	aveform_2	23			
veform Nu um of Burs ırst Inter	um = 23 sts = 16 cva1 (us)= 7500	100								
arst inter arst	Off Time	# Pulses	Chirp (MHz)	PW (us)	Pulse 1	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst	End Burst
	(us) 38059	ruises 1	(MHZ)	(us)	Pri (us) 1243	Pri(us)	Pri(us)	(us) 38059	Interval(us)	Interval (us 749999
	1418904							1458206		
!	704274	3	12	85 95	1490	1794 1014	1704 1058	2167468	750000 1500000	1499999 2249999
	157906		14		1116					
:	998794	3	19	85	1292	1932	1534	2328562	2250000	2999999
	650743	2	16	85	1195	1561	0	3332114	3000000	3749999
	1229641	2	20	90	1580	1150	0	3985613	3750000	4499999
	481459	2	20	85	1233	1543	0	5217984	4500000	5249999
	819135	2	7	50	1174	1169	0	5702219	5250000	5999999
	557390	1	5	65	1115	0	0	6523697	6000000	6749999
)	1105641	3	12	65	1527	1114	1579	7082202	6750000	7499999
L	779947	1	5	85	1773	0	0	8192063	7500000	8249999
2		1	10	85	1455	0	0	8973783	8250000	8999999
3	494087	3	18	55	1871	1301	1298	9469325	9000000	9749999
1	850785	1	20	75	1756	0	0	10324580	9750000	10499999
5	855685	1	20	55	1984	0	0	11182021	10500000	11249999
5	608171	2	12	55	1701	1183	0	11792176	11250000	11999999
	er of pulses in	waveform = 3	31 **********				•			
				Туре	5 Radar Wa	aveform_2	24			
eform Nu of Burs st Inter	um = 24 sts = 18 val (us)= 6666	67								
st	Off Time	#	Chirp (MHz)	₽₩	Pulse 1	Pulse 2	Pulse 3	Start Loc (us)	Start Burst	End Burst
	(us) 302928	Pulses		(us)	Pri(us)	Pri(us)	Pri (us)		Interval(us)	Interval (
	501719	1	16	65	1741	0	0	302928	0	666666
	1084379	1	9	55	1737	0	0	806388	666667	1333333
	686294	3	12	60	1337	1140	1691	1892504	1333334	2000000
	590646	3	9 16	90 50	1141 1604	1666 0	1366 0	2582966 3177785	2000001 266668	2666667 3333334
	595116	3	16 18	50 75	1604 1919	0 1538	1885	3177785 377 4 505	266668 3333335	4000001
	863154	2	18	75 75	1919	1538	0	3774505 4643001	4000002	4666668
	123997	2	18	60	1654	1755	0	4769539	4666669	5333335
	925507	2	14	100	1748	1693	0	5698455	5333336	6000002
	752725	1	14	75	1673	0	0	6454621	6000003	6666669
	229622	1	19	50	1463	0	0	6685916	6666670	7333336
	1217865	3	11	80	1579	1912	1761	7905244	7333337	8000003
	566492	1	17	85	1512	0	0	8476988	8000004	8666670
	566497	1	19	90	1586	0	0	9044997	8666671	9333337
	802700	2	8	100	1742	1196	0	9849283	9333338	10000004
	490884	2	20	65	1630	1971	0	10343105	10000005	10666671
	751018	1	18	80	1222	0	0	11097724	10666672	11333338
al numbe	746073 or of pulses in	2 waveform = 3	5	100	1455	1033	0	11845019	11333339	12000005
	The state of the s	- Control of the last of the l		Type	F Dadar M	woform (25			
				туре	5 Radar Wa	aveiorm_	23			
eform Nu of Burs st Inter		1333								
rst	Off Time (us)	# Pulses	Chirp (MHz)	P₩ (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(u
	255850									
	9000422	3	20	90	1922	1615	1139	255850	0	1333332
	2290477	3	11	70	1799	1030	1072	2551003	1333333	2666665
	318964									
		3	5	70	1551	1686	1937	2873868	2666666	3999998
	1468933	3	13	50	1086	1666	1042	4347975	3999999	E000001
	1396209	٥	13	50	1000	1000	1042	4941919	0222222	5333331
		2	9	90	1378	1528	0	5747978	5333332	6666664
	1915215	-		75	1665	1675	1228	7666099	6666665	7999997
	1915215	3	5	13						
			5 7			1979	1348	9143818	7999998	9333330
	1915215	3	7	55	1094	1979	1348	9143818		9333330
	1915215 1473151 1394700					1979 1756	13 4 8 0	9143818 10542939	7999998 9333331	9333330 10666663
	1915215 1473151	3	7	55	1094					



				Туре	5 Radar Wa	aveform_	26			
aveform N	lum = 26 sts = 13 rva1 (us)= 9230	177								
urst inte. urst !	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	400491	2	15	90	1450	1399	0	400491	0	923076
2	533002	1	11	80	1242	0	0	936342	923077	1846153
3	1050722	3	6	90	1132	1706	1020	1988306	1846154	2769230
4	1030462	3	15	65	1464	1010	1762	3022626	2769231	3692307
5	1128130	2	11	70	1429	1409	0	4154992	3692308	4615384
6	1188190	3	6	95	1107	1344	1665	5346020	4615385	5538461
7	472033	2	12	50	1648	1352	0	5822169	5538462	6461538
8	668374	1	14	95	1298	0	0	6493543	6461539	7384615
9	1071798	3	10				-			8307692
	947249			60	1714	1947	1214	7566639	7384616	
10	1339547	3	11	85	1522	1129	1905	8518763	8307693	9230769
11	293551	3	12	100	1972	1019	1837	9862866	9230770	10153846
12	1112156	2	18	95	1263	1312	0	10161245	10153847	11076923
	er of pulses in	1 waveform = : *******	9 29 *******	100 ******	1918 ******	0 **	0	11275976	11076924	12000000
				Type	5 Radar Wa	aveform	27			
aveform N	um = 27			.,,,,,	o itaaai iii					
um of Burg urst Inter	tum = 27 sts = 20 rval (us) = 6000 Off Time (us) 350637	ool #	Chirp	₽₩	Pulse 1	Pulse 2	Pulse 3	Start Loc	Start Burst	End Burst
	(us) 350637	Pulses	(MHz)	(us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Interval(us)	Interval (us)
1 2	424534	2	7 9	90 95	1566 1769	0 1663	0	350637 776737	600000	599999 1199999
3	645149	2	10	95	1491	1045	0	1425318	1200000	1799999
1	927286 198460	1	17	70	1949	0	0	2355140	1800000	2399999
5	676649	3	17	70	1822	1607	1349	2555549	2400000	2999999
6 7	637488	3	10 20	75 95	1178 10 4 8	1410 0	1632 0	3236976 3878684	3000000	3599999 4199999
В	886130	1	18	55	1573	0	0	4765862	4200000	4799999
9	271419 925919	2	11	100	1997	1752	0	5038854	4800000	5399999
10	245764	1	12	80	1031	0	0	5968522	5400000	5999999
11 12	866334	1	5 10	95 75	1568 1959	0	0	6215317 7083219	6000000 6600000	6599999 7199999
13	181743	2	14	85	1511	1310	0	7266921	7200000	7799999
14	10870 4 8 538250	3	11	85	1813	1335	1112	8356790	7800000	8399999
15	461303	2	15	85	1678	1845	0	8899300	8400000	8999999
16 17	335060	1	16 7	75 70	1077 1775	0	0	9364126 9700263	9000000	9599999 10199999
18	654925	1	16	80	1741	0	0	10356963	10200000	10799999
19	749308 870738	3	20	65	1741	1863	1349	11108012	10800000	11399999
20 otal numb ******	er of pulses in	2 waveform = 3	11 34 *******	90	1244	1764 **	0	11983703	11400000	11999999
				Type	5 Radar Wa	aveform_	28			
aveform N lum of Bur										
urst Inte	erval (us)= 1200	#	Chiam	₽₩	Pulse 1	Pulse 2	Pulse 3	Stont Loo	Start Burst	End Burst
urst	Off Time (us)	# Pulses	Chirp (MHz)	(us)	Pulse 1 Pri(us)	Pri(us)	Pri(us)	Start Loc (us)	Interval(us)	Interval(us)
1	836885	2	11	55	1953	1549	0	836885	0	1199999
2	1070047		7			0	0	1910434		
	754260	1		60	1794				1200000	2399999
3	1536425	3	18	70	1732	1322	1366	2666488	2400000	3599999
4		2	16	75	1019	1418	0	4207333	3600000	4799999
5	1303195	2	17	80	1979	1777	0	5512965	4800000	5999999
	1267531									
	701868	1	8	100	1835	0	0	6784252	6000000	7199999
ь		2	8	90	1683	2000	0	7487955	7200000	8399999
				00	1450	1168	0	9232245	8400000	9599999
7	1740607	2	6	80	1430	1100				
6 7 8	1740607 735190									
7		2 1 3	6 14 17	85 85	1623 1439	0	0	9970053 11960944	9600000 10800000	10799999 11999999





Type 5 Radar Waveform_29										
veform	Num = 29 rsts = 18 erval (us)= 6666									
rst Int	erva1 (us)= 6666	67								
rst	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
	458063	1	7	95	1705	0	0	458063	0	666666
	307918	3	17	90	1475	1550	1682	767686	666667	1333333
	928715	1	12	90	1695	0	0	1701108	1333334	2000000
	624497	2	18	65	1424	1616	0	2327300	2000001	2666667
	592483									
	544157	2	5	65	1781	1327	0	2922823	2666668	3333334
	813412	2	16	65	1671	1419	0	3470088	3333335	4000001
	1010606	3	19	90	1497	1326	1700	4286590	4000002	4666668
	456838	2	6	70	1314	1944	0	5301719	4666669	5333335
	438250	2	6	85	1877	1631	0	5761815	5333336	6000002
)	1078049	2	11	75	1543	1166	0	6203573	6000003	6666669
1	679739	1	17	65	1290	0	0	7284331	6666670	7333336
5	625310	3	5	65	1391	1033	1281	7965360	7333337	8000003
3	532091	3	16	55	1932	1184	1324	8594375	8000004	8666670
4	414648	1	16	70	1499	0	0	9130906	8666671	9333337
5		1	18	55	1391	0	0	9547053	9333338	10000004
5	758143 572424	1	15	65	1977	0	0	10306587	10000005	10666671
7		3	14	75	1633	1350	1902	10880988	10666672	11333338
	677875	1	13	75	1683	0	0	11563748	113333339	12000005
8 tal num	ber of pulses in	waveform = 3	34	ha niệc niệc niệc niệc niệc niệc niệc niệc	nder nder nder nder nder nder nder nder	k rakr		11000140		
tal num		n waveform = 3 中中中中中中中中中中	34	ha niệc niệc niệc niệc niệc niệc niệc niệc		k rakr		11000140	1100000	1300000
tal num		n waveform = 3 中中中中中中中中中中	34	ha niệc niệc niệc niệc niệc niệc niệc niệc	nder nder nder nder nder nder nder nder	k rakr		11000140	1100000	1300000
tal num	Num = 30 rsts = 20 erval (us) = 5000	waveform = 3	3.4. Он начина на постава н	Type	5 Radar Wa	aveform_	30	Start Loc	Start Burst	End Burst
tal num		www.eform = 3 ***********************************	d chirp (MHz)	Type	5 Radar Wa	aveform_	Pulse 3	Start Loc	Start Burst Interval(us)	End Burst Interval(u
tal num	Num = 30 rsts = 20 crval (us) = 6000 (us)	a waveform = 3	Chirp (MHz)	Type	5 Radar Wa	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us) 192494	Start Burst Interval(us)	End Burst Interval(u 599999
tal num	Num = 30 rsts = 20 erval (us) = 6000 Off Time (us) 192494	n waveform = 3	Chirp (MHz) 13	Type	5 Radar Wa	Pulse 2 Pri(us) 1680	Pulse 3 Pri(us)	Start Loc (um) 192494 769205	Start Burst Interval (us) 0 600000	End Burst Interval (u 599999 1199999
tal num	Num = 30 rsts = 20 erval (us) = 6000 (us) = 1000 102494 573895	a waveform = 3	Chirp (MHz) 13 17	Type :	5 Radar Wa	Pulse 2 Pri(us) 1680 0	Pulse 3 Pri(us) 0 0	Start Loc (us) 192494 799205 1523966	Start Burst Interval(us) 0 600000 1200000	End Burst Interval(u 599999 1199999
tal num	Num = 30 rets = 20) = 6000 er 01f Time (us) 192494 573895 753253 474634 878654	1 waveform = 3	Chirp (MHz) 13 17 5	Type :	Pulse 1 Pri (us) 1136 1508 1436 1885	Pulse 2 Pri(us) 1680 0 1992 1978	Pulse 3 Pri(us) 0 0 1318 1925	Start Loc (us) 192494 769205 1523966 2003346	Start Burst Interval (us) 0 600000 1200000 1800000	End Burst Interval (u 59999 1199999 1799999 2399999
tal num	Num = 30 rats = 00 rots = 600 rots = 150 (us) 102494 573895 752253 474634	waveform = 3 ***********************************	Chirp (MHz) 13 17 5 12	Type :	Pulse 1 Pri (up) 1136 1508 1436 1885 1950	Pulse 2 Pri(us) 1680 0 1992 1978 1868	Pulse 3 Pri(us) 0 0 1318 1926	Start Loc (us) 192494 769205 1523966 2003346 2887788	Start Burst Interval (us) 0 600000 1200000 1800000 2400000	End Burst Interval(u 59999 119999 179999 239999 299999
tal num	Num = 30 rets = 20) = 6000 er 01f Time (us) 192494 573895 753253 474634 878654)000 # Pulses 2 1 3 3 3 2 2 2	Chirp (MHz) 13 17 5 12 8	Type (us) 55 95 70 55 50	Pulse 1 Pri (ue) 1136 1508 1436 1885 1950 1458	Pulse 2 Pri(us) 1680 0 1992 1978 1868 1563	Pulse 3 Pri(us) 0 0 1318 1925 0	Start Loc (us) 192494 769205 1523966 2003346 2887788 3561261	Start Burst Interval(us) 0 600000 1200000 1800000 2400000 3000000	End Burst Interval(u 50909 1109099 1709099 2309090 2009099 3509099
tal num	Num = 30 rats = 20 cos = 600 Off Time (us) 192494 573895 753253 474634 878654 669655 479646 212938) waveform = 3	Chirp (MHz) 13 17 5 12	Type 5 Pw (us) 55 95 75 70 55 50 100	Pulse 1 Pri (up) 1136 1508 1436 1885 1950	Pulse 2 Pri(us) 1680 0 1992 1978 1868 1563 2000	Pulse 3 Pri(us) 0 0 1318 1925 0 0	Start Loc (us) 192494 769205 1523966 2003346 2887788 3561261 4043928	Start Burst Interval(us) 0 600000 1200000 1800000 2400000 36000000	End Burst Interval(u 59999 119999 179999 239999 299999
tal num	Num = 30 trate = 20 erval (ue) = 600 Off, Time (192494 573895 753253 474634 878654 669655 479646	000 # Pulses 2 1 3 3 2 2 2 3 3 2 2	Chirp (MHz) 13 17 5 12 8 14 6	Type 5 Fw (us) 55 95 70 55 90 70 70	Pulse 1 Pri (us) 1136 1508 1436 1885 1950 1458 1234 1866	Pulse 2 Pri(us) 1680 0 1992 1978 1868 1563 2000 1581	Pulse 3 Pri(us) 0 0 1318 1925 0 0 1211	Start Loc (us) 192494 769205 1523966 2003346 2887788 3561261 4043928 4261311	Start Burst Interval(us) 0 600000 1200000 1800000 2400000 36000000 4200000	End Burst Interval(u 50000 1190000 1700000 2300000 2500000 4190000 4700000
veform n of Burst Int	Num = 30 rats = 20 cos = 600 Off Time (us) 192494 573895 753253 474634 878654 669655 479646 212938)000 # Pulses 2 1 3 3 2 2 2 3 3 2 2 3 3	Chirp (MHz) 13 17 5 12 8 14 6 5	Type :	Pulse 1 Pri (us) 1 1136 1508 1436 1885 1950 1458 1234 1886	Pulse 2 Pri (us) 1680 0 1992 1978 1868 1563 2000 1581	Pulse 3 Pri(us) 0 0 1318 1925 0 0 1211 0	Start Loc (us) 192494 769205 1523966 2003346 2887788 3561261 4043928 4261311 5083035	Start Burst Interval (us) 0 600000 1200000 1800000 2400000 3000000 3600000 4200000 4800000	End Buret Interval (u 59999 1199999 1799999 2399999 3599999 4199999 4799999 5399999
veform of Buzzt Int	Num = 30 Tree = 20 Num = 20 Num Gue 6000 Num 102494 573895 753253 474634 878654 609655 479646 212938 818277 782687 420035	000 # Pulses 2 1 3 3 2 2 2 3 3 2 2	Chirp (MHz) 13 17 5 12 8 14 6	Type 5 Fw (us) 55 95 70 55 90 70 70	Pulse 1 Pri (us) 1136 1508 1436 1885 1950 1458 1234 1866	Pulse 2 Pri(us) 1680 0 1992 1978 1868 1563 2000 1581	Pulse 3 Pri(us) 0 0 1318 1925 0 0 1211	Start Loc (us) 192494 769205 1523966 2003346 2887788 3561261 4043928 4261311	Start Burst Interval(us) 0 600000 1200000 1800000 2400000 36000000 4200000	End Burst Interval(u 50000 1190000 1700000 2300000 2500000 4190000 4700000
veform n of Bu est Int	Num = 30 rats = 20 = 6000 con of Time (us) 192494 573895 753253 474634 878654 669655 479646 212938 818277 782687 420035 544507) waveform = 3 ***********************************	Chirp (MHz) 13 17 5 12 8 14 6 5 16	Type (us) 55 95 70 56 50 100 70 65 95	Pulse 1 Pri (us) 1136 1508 1436 1885 1950 1458 1234 1866 1133 1582	Pulse 2 Pri(us) 1680 0 1992 1978 1868 1563 2000 1581 1226	Pulse 3 Pri(us) 0 0 1318 1925 0 0 1211 0 1196	Start Loc (us) 192494 799205 1523966 2003346 2887788 3561261 4043928 4261311 5083035 5869277	Start Burst Interval(us) 0 600000 1200000 1800000 2400000 36000000 4200000 4200000 5400000	End Burst Interval (u. 500009 1100009 1700009 2300000 2300000 3500009 4100009 53000009 50000000
veform n of Burst Int	Num = 30 rets = 20 erval (us) = 6000 Off fime (152494 573895 753253 474634 878654 669655 479646 212938 818277 782687 420035 544507 385022	waveform = 3 ***********************************	Chirp (MHz) 13 17 5 12 8 14 6 5	Type 5 Pw (us) 55 95 75 70 55 50 100 70 65 95 95	Pulse 1 Pri (us) 1136 1508 1436 1885 1950 1458 1234 1866 1133 1582 1182	Pulse 2 Pri(us) 1680 0 1992 1978 1868 1563 2000 1581 1226 0	Pulse 3 Pri(us) 0 0 1318 1925 0 0 1211 0 1196 0	Start Loc (us) 192494 769205 1523966 2003346 2887788 3561261 4043928 4261311 5083035 5889277 6290894	Start Burst Interval (us) 0 600000 1200000 1800000 2400000 3000000 4200000 4200000 5400000 6000000	End Burst Interval (u. 509090 1190909 1790909 2309000 2509000 4190909 4790909 5309090 65090000
veform m of Bu rest Int	Num = 30 Num = 20 Num =	2000 # Pulses 2 1 3 3 2 2 2 3 3 1 1 2 3 3	Chirp (MMz) 13 17 5 12 8 14 6 5 16 12 12	Type :	Pulse 1 Pri (us) 1 1136 1508 1436 1885 1950 1458 1234 1866 1133 1582 1182	Pulse 2 Pri (us) 1680 0 1992 1978 1868 1563 2000 1581 1226 0	Pulse 3 Pri(us) 0 0 1318 1925 0 0 1211 0 1196 0	Start Loc (us) 192494 709205 1523906 2003346 2887788 3561261 4043928 4261311 5083035 5889277 6290894 6837645	Start Burst Interval (us) 0 600000 1200000 2400000 3000000 4200000 4200000 5400000 5400000 6600000	End Burst Interval (u. 50000 1100000 1700000 2300000 3500000 4100000 5300000 5500000 7100000
veform of Burst Int	Num = 30 Pats = 20 Pats = 600 Cus) = 6000 Num 1 102494 573895 753895 7474634 878654 609655 479646 212938 818277 782687 420035 544507 385022 815431 614401	1000 # Pulses 2 1 3 3 2 2 3 3 1 2 2 3 1 1 2 2 3 1 1	Chirp (MHz) 13 17 5 12 8 14 6 5 16 12 12 12	Type (us) 55 95 76 70 55 50 100 70 65 95 95 95	Pulse 1 Pri (us) 1136 1508 1436 1835 1950 1458 1234 1866 1133 1582 1182 1203 1305	Pulse 2 Pri (us) 1680 0 1992 1978 1868 1563 2000 1581 1226 0	Pulse 3 Pri(us) 0 0 1318 1925 0 0 1211 0 1196 0 0	Start Loc (ue) 192494 7e9205 1523966 2003346 2887788 3561261 4043928 4261311 5083035 5869277 6290894 6837645 7227012	Start Burst Interval (us) 0 600000 1200000 1800000 2400000 3000000 4200000 4200000 6000000 6000000 7200000	End Burst Interval (u 50909 1109099 1709099 2309099 2909099 4709099 5309099 5309099 5309099 7709099
veform ret Int	Num = 30 rets = 20 erval (us) = 6000 Off fine (15) 494 573895 753253 474634 878654 669655 479646 212938 818277 782687 420035 544507 385022 815431 614401 693415	waveform = 3 ***********************************	Chirp (MHz) 13 17 5 12 8 14 6 5 16 12 12 12 12 12	Type 5 Fw (us) 55 95 70 55 90 100 70 65 95 95 96 90	Pulse 1 Pri (us) 1136 1508 1436 1885 1950 1458 1234 1866 1133 1582 1182 1303 1305	Pulse 2 Pri(us) 1680 0 1992 1978 1868 1563 2000 1581 1226 0 1062 1222 0	Pulse 3 Pri(us) 0 0 0 1318 1925 0 0 1211 0 1196 0 0	Start Loc (us) 192494 769205 1523966 2003346 2887788 3561261 4043928 4261311 5083035 5889277 6290894 6837645 7227012 8043748	Start Burst Interval(us) 0 600000 1200000 1800000 2400000 3600000 4200000 4200000 6000000 6000000 72000000 7800000	End Burst Interval (u 500000 1100000 2300000 2300000 2500000 4100000 4100000 5300000 5300000 55000000 7100000 7700000 8300000 8300000
veform of Burrst Int	Num = 30 trate = 20 erval (ue) = 6000 Off, Time (192494 573895 753253 474634 878654 669655 479646 212938 818277 782687 420035 544507 385022 815431 614401 693415 641462	2 1 3 2 2 2 3 1 1 2 2 3 1 1 1 1 1 1	Chirp (MHz) 13 17 5 12 8 14 6 5 16 12 12 12 20 19	Type :	Pulse 1 Pri (us) 1 1136 1508 1436 1885 1950 1458 1234 1866 1133 1582 1182 1303 1305	Pulse 2 Pri (us) 1680 0 1992 1978 1868 1563 2000 1581 1226 0 1062 1222 0	Pulse 3 Pri(us) 0 0 1318 1925 0 0 1211 0 1196 0 0	Start Loc (us) 192494 709205 1523066 2003346 2887788 3561261 4043928 4261311 5083035 5889277 6290894 6837645 7227012 8043748 8659817	Start Burst Interval (us) 0 600000 1200000 2400000 3000000 4200000 4200000 5400000 6000000 7200000 8400000 8400000	End Buret Interval (u 50000 119000 170000 230000 350000 419000 530000 530000 719000 719000 830000 830000 830000 830000 830000
tal num ****** veform rof Bu rst Int	Num = 30 Pres = 20 Off Time (up) Off Time (102494 573295 753253 474634 878654 609655 479646 212938 818277 782687 420035 544507 385022 815431 614401 693415 641462 422762	1000 # Pulses 2 1 3 3 2 2 2 3 3 1 1 2 3 1 1 1 1 3 3	Chirp (MHz) 13 17 5 12 8 14 6 5 16 12 12 12 12 12 10 10	Type (us) 55 95 75 70 55 50 100 70 65 95 95 95 95 100	Pulse 1 Pri(ue) 1136 1508 1436 1885 1950 1458 1234 1866 1133 1582 1182 1303 1305 1668 1888	Pulse 2 Pri (us) 1680 0 1992 1978 1868 1563 2000 1581 1226 0 1062 1222 0	Pulse 3 Pri(us) 0 0 1318 1925 0 1211 0 1196 0 0 1820 0	Start Loc (us) 192494 769205 1523966 2003346 2887788 3561261 4043928 4261311 5083035 5889277 6290894 6837645 7227012 8043748 8659317 9355120	Start Burst Interval(us) 0 600000 1200000 1800000 2400000 3600000 4200000 4200000 5400000 6600000 7200000 7800000 8400000 9000000	End Burst Interval (u 500000 11000000 23000000 23000000 35000000 41000000 47000000 53000000 55000000 71000000 77000000 33000000 950000000 950000000
veform of Europe Interest Intrest Int	Num = 30 trate = 20 erval (ue) = 6000 Off, Time (192494 573895 753253 474634 878654 669655 479646 212938 818277 782687 420035 544507 385022 815431 614401 693415 641462	2	Chirp (MHz) 13 17 5 12 8 14 6 5 16 12 12 12 12 12 12 12 12 12 12 12 12 12	Type (us) 55 95 70 56 50 100 70 65 95 75 60 90 55	Pulse 1 Pri (us) 1136 1508 1436 1885 1950 1458 1234 1866 1133 1582 1182 1393 1305 1668 1888 1786	Pulse 2 Pri(us) 1680 0 1992 1978 1868 1563 2000 1581 1226 0 1062 1222 0	Pulse 3 Pri(us) 0 0 1318 1925 0 0 1211 0 1196 0 0 0	Start Loc (us) 192494 799205 1523966 2003346 2887788 3561261 4043928 4261311 5083035 5869277 6290894 6837645 7227012 8043748 8659817 9355120 10001421	Start Burst Interval(us) 0 600000 1200000 1800000 2400000 36000000 4200000 5400000 6600000 7200000 7800000 9600000 9600000	End Burst Interval (u 500000 11000000 1790000 2300000 2300000 4100000 4700000 5300000 5300000 5300000 7700000 7700000 8300000 8300000 101000000 101000000



Radar Type 6 - Radar Statistical Performance

Trail #	Test Freq.	1=Detection	Trail #	Test Freq.	1=Detection
	(MHz)	0=No Detection		(MHz)	0=No Detection
1	5329	1	16	5329	1
2	5329	1	17	5329	1
3	5329	1	18	5329	1
4	5329	1	19	5329	1
5	5329	1	20	5329	1
6	5329	1	21	5329	1
7	5329	1	22	5329	1
8	5329	1	23	5329	1
9	5329	1	24	5329	1
10	5329	1	25	5329	1
11	5329	1	26	5329	1
12	5329	1	27	5329	1
13	5329	1	28	5329	1
14	5329	1	29	5329	1
15	5329	1	30	5329	1
	Det	ection Percentage	(%)		100%





F	Radar waveform #	1	Radar waveform #2			
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)	
3	5334	9	9	5330	27	
13	5353	39	11	5311	33	
15	5342	45	24	5340	72	
23	5335	69	55	5312	165	
33	5352	99	56	5348	168	
35	5351	105	72	5357	216	
41	5303	123	73	5351	219	
46	5355	138	83	5306	249	
47	5322	141	88	5303	264	
54	5324	162	89	5353	267	
58	5306	174	90	5344	270	
70	5350	210	95	5326	285	
75	5300	225				
76	5345	228				
79	5320	237				
94	5349	282				
97	5316	291				
99	5304	297				





F	Radar waveform #	3	Radar waveform #4			
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)	
Number	(MHz)		Number	(MHz)		
9	5319	27	6	5351	18	
10	5322	30	13	5324	39	
11	5321	33	25	5334	75	
16	5311	48	35	5313	105	
32	5334	96	37	5325	111	
39	5312	117	56	5309	168	
42	5299	126	70	5339	210	
45	5338	135	73	5356	219	
51	5330	153	85	5322	255	
57	5354	171	87	5320	261	
60	5345	180	88	5305	264	
75	5340	225	98	5327	294	
79	5303	237				
81	5335	243				
90	5336	270				
91	5349	273				
92	5350	276				
93	5305	279				



F	Radar waveform #	5	Radar waveform #6			
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)	
Number	(MHz)		Number	(MHz)		
4	5317	12	1	5303	3	
24	5303	72	24	5302	72	
26	5357	78	31	5310	93	
35	5312	105	40	5337	120	
37	5326	111	42	5309	126	
40	5328	120	44	5318	132	
48	5324	144	46	5344	138	
53	5306	159	68	5322	204	
59	5300	177	84	5348	252	
61	5341	183	86	5324	258	
63	5351	189	96	5304	288	
77	5299	231				
80	5304	240				

F	Radar waveform #	7	Radar waveform #8			
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)	
Number	(MHz)		Number	(MHz)		
2	5322	6	34	5338	102	
16	5321	48	36	5347	108	
22	5305	66	37	5316	111	
37	5356	111	43	5314	129	
57	5319	171	59	5309	177	
60	5355	180	60	5303	180	
74	5344	222	68	5351	204	
77	5349	231	70	5354	210	
82	5304	246	72	5305	216	
86	5335	258	85	5340	255	
87	5345	261	91	5336	273	
96	5342	288	98	5355	294	
99	5312	297				





F	Radar waveform #	9	Radar waveform #10			
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)	
Number	(MHz)		Number	(MHz)		
1	5324	3	20	5331	60	
11	5318	33	21	5343	63	
52	5351	156	29	5328	87	
54	5321	162	31	5341	93	
59	5346	177	36	5346	108	
62	5326	186	41	5305	123	
71	5337	213	48	5327	144	
73	5302	219	50	5354	150	
74	5352	222	54	5322	162	
87	5308	261	55	5307	165	
92	5349	276	58	5303	174	
			61	5339	183	
			66	5355	198	
			76	5359	228	
			91	5335	273	
			98	5301	294	



R	adar waveform #1	11	Radar waveform #12			
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)	
Number	(MHz)		Number	(MHz)		
11	5330	33	0	5315	0	
26	5337	78	5	5332	15	
28	5347	84	14	5326	42	
50	5354	150	21	5302	63	
53	5345	159	31	5358	93	
54	5336	162	34	5299	102	
56	5300	168	40	5348	120	
60	5343	180	44	5359	132	
61	5342	183	46	5319	138	
64	5316	192	52	5330	156	
65	5321	195	77	5350	231	
80	5325	240	80	5314	240	
82	5312	246	81	5346	243	
84	5341	252	84	5303	252	
			90	5333	270	
			95	5329	285	

R	adar waveform #1	13	R	adar waveform #1	14
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
2	5356	6	11	5321	33
24	5343	72	25	5356	75
31	5329	93	28	5358	84
39	5304	117	47	5345	141
66	5334	198	63	5326	189
73	5357	219	70	5310	210
83	5302	249	73	5336	219
95	5305	285	79	5315	237
			80	5353	240
			85	5323	255
			90	5331	270
			99	5346	297



R	adar waveform #1	15	Radar waveform #16			
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)	
Number	(MHz)		Number	(MHz)		
17	5348	51	5	5324	15	
20	5322	60	6	5306	18	
23	5339	69	10	5347	30	
28	5345	84	28	5315	84	
30	5305	90	37	5305	111	
36	5300	108	38	5319	114	
38	5335	114	39	5340	117	
49	5359	147	43	5332	129	
52	5333	156	47	5341	141	
56	5338	168	49	5326	147	
66	5321	198	56	5349	168	
75	5337	225	61	5344	183	
78	5320	234	78	5301	234	
91	5326	273	84	5317	252	
99	5314	297	89	5359	267	
			95	5350	285	
			99	5355	297	

R	adar waveform #1	17	Radar waveform #18			
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)	
Number	(MHz)		Number	(MHz)		
14	5358	42	12	5334	36	
15	5304	45	14	5342	42	
33	5312	99	18	5337	54	
41	5342	123	31	5306	93	
51	5325	153	47	5347	141	
68	5356	204	48	5330	144	
75	5330	225	50	5352	150	
83	5353	249	69	5335	207	
			73	5350	219	
			75	5307	225	
			78	5309	234	
			92	5331	276	
			97	5339	291	



R	adar waveform #1	19	Radar waveform #20			
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)	
Number	(MHz)		Number	(MHz)		
9	5328	27	2	5321	6	
16	5337	48	4	5330	12	
30	5341	90	5	5302	15	
36	5302	108	6	5319	18	
51	5324	153	12	5318	36	
56	5313	168	25	5316	75	
59	5326	177	29	5350	87	
61	5335	183	31	5346	93	
63	5353	189	46	5352	138	
66	5346	198	52	5332	156	
72	5306	216	53	5334	159	
74	5312	222	66	5337	198	
94	5340	282	70	5312	210	
			82	5314	246	

R	adar waveform #2	21	Radar waveform #22			
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)	
Number	(MHz)		Number	(MHz)		
0	5327	0	7	5349	21	
3	5319	9	9	5327	27	
15	5337	45	13	5343	39	
19	5338	57	17	5304	51	
23	5320	69	31	5324	93	
32	5328	96	40	5345	120	
39	5323	117	55	5351	165	
43	5322	129	57	5305	171	
49	5347	147	71	5322	213	
53	5333	159	72	5341	216	
56	5307	168	76	5330	228	
61	5325	183	80	5300	240	
62	5354	186				
68	5308	204				
92	5341	276				





R	adar waveform #2	23	Radar waveform #24			
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)	
2	5324	6	11	5309	33	
6	5316	18	14	5343	42	
7	5337	21	15	5345	45	
31	5352	93	17	5324	51	
46	5310	138	20	5339	60	
52	5340	156	21	5351	63	
56	5311	168	27	5318	81	
66	5319	198	29	5333	87	
72	5341	216	43	5301	129	
80	5358	240	48	5325	144	
87	5350	261	51	5350	153	
91	5333	273	57	5331	171	
95	5348	285	58	5340	174	
96	5345	288	60	5344	180	
			72	5317	216	
			77	5338	231	
			83	5357	249	
			84	5315	252	
			87	5314	261	
			88	5358	264	
			99	5305	297	





R	adar waveform #2	25	Radar waveform #26			
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)	
Number	(MHz)		Number	(MHz)		
3	5305	9	2	5348	6	
9	5341	27	4	5345	12	
18	5324	54	12	5312	36	
20	5307	60	23	5322	69	
21	5342	63	36	5324	108	
45	5354	135	38	5305	114	
67	5323	201	41	5341	123	
68	5340	204	48	5306	144	
69	5327	207	56	5340	168	
78	5304	234	57	5331	171	
81	5358	243	82	5311	246	
85	5329	255	83	5346	249	
88	5338	264	99	5317	297	
89	5349	267				
90	5331	270				





R	adar waveform #2	27	Radar waveform #28			
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)	
Number	(MHz)		Number	(MHz)		
8	5348	24	13	5305	39	
12	5318	36	24	5340	72	
33	5351	99	26	5348	78	
34	5353	102	47	5335	141	
35	5333	105	64	5337	192	
36	5312	108	68	5330	204	
37	5346	111	81	5318	243	
45	5355	135	85	5301	255	
47	5358	141	87	5336	261	
56	5308	168	88	5332	264	
65	5317	195				
70	5322	210				
74	5316	222				
96	5323	288				
97	5338	291				
98	5356	294				
99	5306	297				





R	adar waveform #2	29	Radar waveform #30				
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)		
Number	(MHz)		Number	(MHz)			
3	5318	9	5	5317	15		
8	5309	24	18	5354	54		
9	5354	27	23	5314	69		
14	5356	42	25	5337	75		
29	5311	87	26	5299	78		
54	5337	162	37	5342	111		
71	5355	213	39	5359	117		
84	5310	252	60	5350	180		
85	5346	255	62	5328	186		
90	5350	270	66	5318	198		
94	5324	282	71	5305	213		
96	5312	288	73	5336	219		
97	5314	291	92	5348	276		
			95	5343	285		
			98	5332	294		



Radar Statistical Performance for 802.11ac-VHT80

Radar Type 1 - Radar Statistical Performance

Trail #	Test Freq.	Pulse Width	PRI (us)	Pulses / Burst	1=Detection
	(MHz)	(us)			0=No Detection
1	5251	1	918	58	1
2	5251	1	878	61	1
3	5251	1	538	99	1
4	5251	1	738	72	1
5	5251	1	798	67	1
6	5251	1	598	89	1
7	5251	1	698	76	1
8	5251	1	838	63	1
9	5251	1	818	65	1
10	5251	1	518	102	1
11	5251	1	718	74	1
12	5251	1	558	95	1
13	5251	1	638	83	1
14	5251	1	578	92	1
15	5251	1	858	62	1
16	5251	1	2183	25	1
17	5251	1	1358	39	1
18	5251	1	1322	40	1
19	5251	1	2686	20	1
20	5251	1	1529	35	1
21	5251	1	1523	35	1
22	5251	1	527	101	1
23	5251	1	1782	30	1
24	5251	1	2941	18	1
25	5251	1	1684	32	1
26	5251	1	2051	26	1
27	5251	1	2569	21	1
28	5251	1	3041	18	1
29	5251	1	2817	19	1
30	5251	1	1258	42	1
	Det	ection Percentage	(%)		100%



Radar Type 2 - Radar Statistical Performance

Trail #	Test Freq.	Pulse Width	PRI (us)	Pulses / Burst	1=Detection
	(MHz)	(us)			0=No Detection
1	5270	5.0	227	26	1
2	5270	2.2	218	23	1
3	5270	4.0	181	29	1
4	5270	3.2	185	27	1
5	5270	2.9	217	25	1
6	5270	4.0	187	23	1
7	5270	5.0	191	27	1
8	5270	2.8	163	25	1
9	5270	1.1	215	25	1
10	5270	4.0	200	25	1
11	5270	3.4	171	25	1
12	5270	1.8	189	25	1
13	5270	4.1	176	25	1
14	5270	3.5	159	24	1
15	5270	2.5	157	24	1
16	5270	4.2	216	28	1
17	5270	3.4	225	23	1
18	5270	4.5	175	26	1
19	5270	2.1	175	25	1
20	5270	3.3	165	25	1
21	5270	2.8	185	29	1
22	5270	3.9	230	27	1
23	5270	4.7	208	23	1
24	5270	1.7	223	25	1
25	5270	1.2	171	24	1
26	5270	2.8	179	27	1
27	5270	1.8	181	23	1
28	5270	3.7	193	29	1
29	5270	4.3	195	26	1
30	5270	3.0	215	24	1
	Det	ection Percentage	(%)		100%



Radar Type 3 - Radar Statistical Performance

Trail #	Test Freq.	Pulse Width	PRI (us)	Pulses / Burst	1=Detection
	(MHz)	(us)			0=No Detection
1	5290	6.9	495	16	1
2	5290	6.0	399	16	1
3	5290	8.6	291	16	1
4	5290	7.8	284	17	1
5	5290	7.5	253	16	1
6	5290	6.4	376	17	1
7	5290	8.8	449	17	1
8	5290	8.5	455	17	1
9	5290	8.2	318	18	1
10	5290	8.8	325	17	1
11	5290	8.8	293	17	1
12	5290	6.3	311	16	1
13	5290	6.7	403	18	1
14	5290	6.2	482	16	1
15	5290	8.8	307	18	1
16	5290	9.0	366	17	1
17	5290	9.3	466	17	1
18	5290	6.1	387	16	1
19	5290	8.1	355	18	1
20	5290	9.5	258	18	1
21	5290	6.2	406	17	1
22	5290	9.9	353	17	1
23	5290	9.0	491	17	1
24	5290	8.0	486	17	1
25	5290	6.3	319	16	1
26	5290	7.1	403	16	1
27	5290	8.0	325	17	1
28	5290	9.9	282	18	1
29	5290	9.0	331	17	1
30	5290	9.3	259	17	1
	Det	ection Percentage	(%)		100%



Radar Type 4 - Radar Statistical Performance

Trail #	Test Freq.	Pulse Width	PRI (us)	Pulses / Burst	1=Detection
	(MHz)	(us)			0=No Detection
1	5305	18.3	308	13	1
2	5305	12.3	444	16	1
3	5305	17.5	273	16	1
4	5305	13.8	396	16	1
5	5305	18.2	319	12	1
6	5305	16.8	496	16	1
7	5305	17.1	462	14	1
8	5305	11.2	495	16	1
9	5305	11.6	419	16	1
10	5305	17.3	438	15	1
11	5305	15.4	334	13	1
12	5305	13.5	416	16	1
13	5305	15.7	491	15	1
14	5305	17.0	266	15	1
15	5305	15.4	366	13	1
16	5305	17.5	369	15	1
17	5305	17.2	275	12	1
18	5305	12.7	262	16	1
19	5305	18.4	406	12	1
20	5305	13.3	344	13	1
21	5305	14.0	457	15	1
22	5305	15.5	443	15	1
23	5305	16.8	415	13	1
24	5305	14.5	429	15	1
25	5305	13.3	273	14	1
26	5305	19.6	394	14	1
27	5305	15.3	480	16	1
28	5305	15.4	303	14	1
29	5305	18.6	486	12	1
30	5305	18.9	262	13	1
	Det	ection Percentage	(%)		100%

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

waveforms is as follows: $\frac{P_d 1 + P_d 2 + P_d 3 + P_d 4}{4} = (100\% + 100\% + 100\% + 100\%)/4 = 100\% (>80\%)$

FCC ID: 2ABLK-8X4G-1V2 Page Number: 100 of 122





Radar Type 5 - Radar Statistical Performance

Trail #	Test Freq.	1=Detection	Trail #	Test Freq.	1=Detection
	(MHz)	0=No Detection		(MHz)	0=No Detection
1	5310	1	16	5310	1
2	5310	1	17	5310	1
3	5310	1	18	5310	1
4	5310	1	19	5310	1
5	5310	1	20	5310	1
6	5310	1	21	5310	1
7	5310	1	22	5310	1
8	5310	1	23	5310	1
9	5310	1	24	5310	1
10	5310	1	25	5310	1
11	5310	1	26	5310	1
12	5310	1	27	5310	1
13	5310	1	28	5310	1
14	5310	1	29	5310	1
15	5310	1	30	5310	1
	Det	ection Percentage	(%)		100%

	Type 5 Radar Waveform_1									
Waveform Num = 1 Num of Bursts = 19 Burst Interval (us)= 631579 Burst Trime # Chirp PW Pulse 1 Pulse 2 Pulse 3 Start Loc Start Burst End Burst Burst Off Time # Chirp PW Pulse 1 Pulse 2 Pulse 3 Start Loc Start Burst End Burst										
	(us) 496124	Pulses	(MHz)	(us)	Pri(us)	Pri(us)	Pri(us)	(us)	Interval (us)	Interval (us
L	635941	3	13	85	1977	1073	1092	496124	0	631578
!	189563	2	18	65	1920	1884	0	1136207	631579	1263157
	1111404	1	5	95	1990	0	0	1329574	1263158	1894736
	609520	1	11	65	1564	0	0	2442968	1894737	2526315
	362442	2	11	60	1141	1378	0	3054052	2526316	3157894
	716527	2	15	55	1210	1908	0	3419013	3157895	3789473
	806856	1	19	70	1095	0	0	4138658	3789474	4421052
	235414	3	19	70	1811	1869	1308	4946609	4421053	5052631
	944531	2	9	90	1617	1686	0	5187011	5052632	5684210
0	220895	3	19	90	1244	1810	1198	6134845	5684211	6315789
1	220895 828410	1	15	55	1856	0	0	6359992	6315790	6947368
2	638437	3	11	80	1679	1327	1936	7190258	6947369	7578947
3		2	17	60	1886	1741	0	7833637	7578948	8210526
4	391173	2	10	95	1695	1735	0	8228437	8210527	8842105
5	1059438	1	13	55	1509	0	0	9291305	8842106	9473684
6	786384	3	14	65	1121	1963	1636	10079198	9473685	10105263
7	321619	1	15	80	1792	0	0	10405537	10105264	10736842
8	923599	1	16	85	1801	0	0	11330928	10736843	11368421
9	541471	2	11	80	1864	1144	0	11874200	11368422	12000000
tal numb	ber of pulses in	. waveform = 3	16 ********			t::t:				



				Type	5 Radar W	aveform_	2			
veform l										
	rsts = 11 erval (us)= 1090	0909								
rst	Off Time (us) 751990	# Pulses	Chirp (MHz)	P₩ (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us
	1128391	1	13	80	1685	0	0	751990	0	1090908
	847508	3	13	85	1891	1051	1865	1882066	1090909	2181817
		3	20	90	1534	1982	1059	2734381	2181818	3272726
	1273816	1	20	80	1896	0	0	4012772	3272727	4363635
	1290862	2	14	95	1867	1639	0	5305530	4363636	5454544
	347169	2	19	65	1800	1916	0	5656205	5454545	6545453
	1530413	3	13	100	1468	1247	1562	7190334	6545454	7636362
	1351334	3	19	60	1983	1756	1686	8545945	7636363	8727271
	825317									
	772070	2	10	80	1846	1153	0	9376687	8727272	9818180
)	891765	2	8	60	1558	1029	0	10151756	9818181	10909089
	er of pulses in			100	1536	1155	0	11046108	10909090	11999998
*****					kokokokokokokokokokokokok					
				Туре	5 Radar W	aveform_	.3			
eform N	sts = 11									
st Interst	rval (us)= 1090 Off Time	1909 #	Chirp	₽₩	Pulse 1	Pulse 2	Pulse 3	Start Loc	Start Burst	End Burst
	(us) 598860	Pulses	(MHz)	(us)	Pri (us)	Pri (us)	Pri (us)	(us)	Interval (us)	Interval (us
	681671	3	18	55	1040	1858	1685	598860	0	1090908
		2	12	70	1575	1568	0	1285114	1090909	2181817
	984091	2	8	80	1003	1002	0	2272348	2181818	3272726
	1587838	1	8	70	1698	0	0	3862191	3272727	4363635
	1522219	3	16	80	1209	1293	1050	5386108	4363636	5454544
	316900	1	8	80	1500	0	0	5706560	5454545	6545453
	1924899	2	19	80	1173	1481	0	7632959	6545454	7636362
	479978		8				0			
	1528875	1		75	1275	0		8115591	7636363	8727271
	623685	1	18	55	1962	0	0	9645741	8727272	9818180
	1381833	2	11	60	1805	1297	0	10271388	9818181	10909089
al numb	er of pulses in	2 waveform = 2	13 !0	60	1097	1960	0	11656323	10909090	11999998
**************	***************************************	*****								
				Туре	5 Radar W	aveform_	_4			
eform N of Bur st Inte	Jum = 4 sts = 17 erva1 (us) = 7058	382								
st	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)
	204080 884268	1	13	50	1131	0	0	204080	0	705881
	1014432	2	12	85	1360	1380	0	1089479	705882	1411763
	277561	1 3	11 9	95 50	1595 1603	0 1975	0 1111	2106651 2385807	1411764 2117646	2117645 2823527
	574337	1	17	60	1929	1975	0	2964833	2823528	3529409
	758428 562657	1	9	65	1290	0	0	3725190	3529410	4235291
	1205541	3	19	100	1125	1175	1643	4289137	4235292	4941173
	413429	1 3	16 17	95 90	10 4 3 1327	0 1958	0 1877	5498621 5913093	4941174 5647056	5647055 6352937
	989107	1	17	90	1586	0	0	6907362	6352938	7058819
	206826 904364	2	7	100	1317	1397	0	7115774	7058820	7764701
	904364 825147	3	13	70	1389	1412	1217	8022852	7764702	8470583
3	482724	2	9	95	1871	1063	0	8852017	8470584	9176465
l. 5	998885	3	17 12	90 75	1401 1283	1882 1977	1233 1030	9337675 10341076	9176466 9882348	98823 4 7 10588229
	651319									
ò	791356	3	15	95	1708	1424	1090	10996685	10588230	11294111





				Туре	5 Radar W	aveform_	5			
aveform N	um = 5									
m of Burs		000								
ırst	Off Time (us)	# Pulses	Chirp (MHz)	P₩ (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us
	844572	2	20	75	1562	1759	0	844572	0	1199999
	605417	3	20	50	1022	1992	1041	1453310	1200000	2399999
	1810487	1	13	75	1433	0	0	3267852	2400000	3599999
	352061									
	1472445	2	6	80	1849	1881	0	3621346	3600000	4799999
	1393480	1	18	65	1493	0	0	5097521	4800000	5999999
		3	19	95	1263	1074	1936	6492494	6000000	7199999
	1073522	3	15	55	1182	1726	1568	7570289	7200000	8399999
	1618150	1	9	60	1820	0	0	9192915	8400000	9599999
	1398921									
	512326	1	11	85	1837	0	0	10593656	9600000	10799999
al numbe	er of pulses in	3 waveform = 1	15 20	85	1242	1203	1851	11107819	10800000	11999999
				******		**				
				Туре	5 Radar W	aveform_	6			
eform Nu of Burs	um = 6 sts = 20 rva1 (us) = 6000 Off Time (us) 240579	00								
st	Off Time	# 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
	240579 474382	-	18	85	1499	1643	О	240579	0	599999
	637968	2	10 13	100 55	1371 1971	1265 1981	0 1893	718103 1358707	600000 1200000	1199999 1799999
	851679	3	15	85	1284	1677	1703	2216231	1800000	2399999
	194836 625109	2	9	50	1389	1308	0	2415731	2400000	2999999
	1104795	3	20	90	1430	1470	1065	3043537	3000000	3599999
	44779	3	13 17	55 65	1190 1837	1363 1850	1676 0	4152297 4201305	3600000 4200000	4199999 4799999
	1037793 448791	2	9	60	1643	1079	0	5242785	4800000	5399999
	611192	3	17	95	1126	1856	1103	5694298	5400000	5999999
	364918	2	10 10	55 80	1114 1665	1524 0	0	6309575 6677131	6000000 6600000	6599999 7199999
	701671	3	8	75	1163	1077	1574	7380467	7200000	7799999
	684419 756923	2	12	55	1745	1361	О	8068700	7800000	8399999
	248595	1	14 10	60 95	1088 1274	0	0	8828729 9078412	8400000 9000000	8999999 9599999
	1054025	2	14	85	1103	1082	0	10133711	9600000	10199999
	241711 421240	3	12	55	1428	1332	1349	10377607	10200000	10799999
	629965	3	13	70	1583	1902	1095	10802956	10800000	11399999
al numbe	er of pulses in	3 waveform = 4 ********	10 16 	50	1586	1243	1833	11437501	11400000	11999999
				Туре	5 Radar W	aveform_	.7			
eform N n of Bur	ium = 7 sts = 15 rva1 (us)= 8000	100								
st	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
	580544	2	17	65	1114	1885	0	580544	0	799999
	865316	2	14	70	1321	1373	0	1448859	800000	1599999
	184533 1112087	3	19	90	1244	1788	1896	1636086	1600000	2399999
	1239223	1	13	90	1229	0	0	2753101	2400000	3199999
	207325	1	10	70	1467	0	0	3993553	3200000	3999999
	968973	2	19	60	1861	1250	0	4202345	4000000	4799999
	1053885	2	10	95	1030	1356	0	5174429	4800000	5599999
	459068	1	20	65	1323	0	0	6230700	5600000	6399999
	1161609	2	11	65	1943	1766	0	6691091	6400000	7199999
)	916916	2	13	85	1766	1100	0	7856409	7200000	7999999
L	242366	1	14	60	1068	0	0	8776191	8000000	8799999
2	615506	3	7	65	1633	1066	1532	9019625	8800000	9599999
3	1434963	1 3	10 8	50 75	1879 1202	0 1533	0	9639362	9600000	10399999
				75	1202	1533	1361	11076204	10400000	11199999
1	335832	1	18	50	1011	0	0	11416132	11200000	11999999





				Туре	5 Radar W	aveform_	8			
Waveform N	Vum = 8									
Wum of Bur Burst Inte	rsts = 10 erval (us)= 1200	0000								
Burst #	Off Time (us) 781431	# Pulses	Chirp (MHz)	P₩ (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		2	11	80	1545	1167	0	781431	0	1199999
2	965107	3	10	95	1622	1145	1977	1749250	1200000	2399999
3	1057674	2	13	100	1480	1724	0	2811668	2400000	3599999
4	1896304	2	18	65	1014	1387	0	4711176	3600000	4799999
5	708171	3	13	65	1064	1106	1536	5421748		5999999
•	1662083								4800000	
6	633575	3	5	70	1125	1492	1486	7087537	6000000	7199999
7	1017799	2	5	75	1615	1610	0	7725215	7200000	8399999
8	1656139	3	6	75	1939	1247	1071	8746239	8400000	9599999
9		3	12	90	1561	1251	1261	10406635	9600000	10799999
10	1345681	1	9	100	1593	0	0	11756389	10800000	11999999
	per of pulses in			****		**				
				Туре	5 Radar W	aveform_	_9			
∥aveform N										
	erval (us)= 1090	909								
Burst f	Off Time	# Pulses	Chirp (MHz)	P₩ (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	993353	1	12	50	1098	0	0	993353	0	1090908
2	99287	3	14	90	1039	1552	1777	1093738	1090909	2181817
3	2114859	1	10	50	1485	0	0	3212965	2181818	3272726
4	190307	3	15	75	1578	1285	1282	3404757	3272727	4363635
5	1003981	2	6	95	1516	1177	0	4412883	4363636	5454544
6	1086745	3	13	90	1806	1398	1490	5502321	5454545	6545453
7	1702714	2	9	65	1122	1788	0	7209729	6545454	7636362
•	593566	3	9							
8	1263205			100	1911	1441	1481	7806205	7636363	8727271
9	1284092	3	15	80	1030	1931	1520	9074243	8727272	9818180
10	669413	3	6	90	1344	1563	1218	10362816	9818181	10909089
11 otal numb *****	er of pulses in	2 . waveform = 2 *******	12 26 **********	60 ******	1809 *******	1643 :∗	0	11036354	10909090	11999998
				Type	5 Radar Wa	aveform_	10			
aveform N um of Bur urst Inte	lum = 10 sts = 17 erval (us)= 7058	82								
urst	Off Time	# 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	100672 1130990	1	15	70	1752	0	0	100672	0	705881
2	819510	2	17	95	1371	1153	0	1233414	705882	1411763
3 1	508442	1	20 8	50 55	1185 1598	0	0	2055448 2565075	1411764 2117646	2117645 2823527
5	957709	3	18	100	1690	1363	1612	3524382	2823528	3529409
5	582057 621566	2	17	90	1326	1509	0	4111104	3529410	4235291
7	492516	3	8	80	1584	1277	1779	4735505	4235292	4941173
8 9	520060	1	11 8	55 55	1508 1083	0	0	5232661 5754229	4941174 5647056	5647055 6352937
10	829409	3	14	75	1558	1192	1710	6584721	6352938	7058819
11	604691 1013000	2	7	75	1345	1983	0	7193872	7058820	7764701
12	889675	2	17	65	1553	1743	0	8210200	7764702	8470583
13	751532	1	11 14	60 65	1720 1841	0	0	9103171 9856423	8470584 9176466	9176465 9882347
	149830	1	5	55	1168	0	0	10008094	9882348	10588229
	000100	1		00	1100	0	~		0002020	
14 15 16	682179 1018903	2	9	90	1951	1885	0	10691441	10588230	11294111





				Туре	5 Radar Wa	aveform_	11			
aveform N	Jum = 11									
	rsts = 10 erval (us)= 1200	0000								
ırst	Off Time (us) 210647	# Pulses	Chirp (MHz)	P₩ (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us
		3	19	50	1805	1613	1834	210647	0	1199999
	1347157	1	17	65	1813	0	0	1563056	1200000	2399999
	916251	2	19	95	1233	1890	0	2481120	2400000	3599999
	1422102									
	1576616	1	18	95	1308	0	0	3906345	3600000	4799999
	551163	2	14	65	1814	1612	0	5484269	4800000	5999999
		1	6	90	1075	0	0	6038858	6000000	7199999
	1849544	2	20	65	1354	1686	0	7889477	7200000	8399999
	866351	3	16	75	1597	1237	1460	8758868	8400000	9599999
	1344277	2	12	80	1265	1375	0	10107439		10799999
	1397862								9600000	
) tal numb	er of pulses in	3 n waveform = 1	19 20	55	1753	1498	1175	11507941	10800000	11999999
			*****	*****		**				
				Туре	5 Radar Wa	aveform_	12			
veform N n of Bur	Num = 12									
rst Inte	erval (us)= 8000	000		T215		D			G	
rst	Off Time (us) 621395	# 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)
	280142	3	13	70	1270	1045	1741	621395	0	799999
	904008	3	11	90	1566	1914	1431	905593	800000	1599999
	1062565	2	15	65	1551	1264	0	1814512	1600000	2399999
	722833	2	20	65	1756	1715	0	2879892	2400000	3199999
	1177432	3	19 10	50 55	1430 1697	1128 1077	1932 1897	3606196 4788118	3200000 4000000	3999999 4799999
	798197	3	10	55	1406	1504	1266	5590986	4800000	5599999
	743106	1	6	100	1283	0	0	6338268	5600000	6399999
	417784	2	16	95	1806	1332	0	6757335	6400000	7199999
1	746577	1	6	90	1866	0	0	7507050	7200000	7999999
	1039542 324641	2	20	55	1004	1964	0	8548458	8000000	8799999
?	1176031	2	14	95	1615	1541	0	8876067	8800000	9599999
3	1088049	3	19	85	1883	1973	1478	10055254	9600000	10399999
Ŀ	302405	2	18	95	1038	1797	0	11148637	10400000	11199999
al numb	er of pulses in	3 1 waveform = 3 ********	13 35 ******	50 *****	1987 ********	1429 **	1492	11453877	11200000	11999999
				Type	5 Radar Wa	aveform	13			
eform N	Jum = 13			.,,,,,						
st Inte	Wum = 13 rsts = 20 erval (us)= 6000 Off Time (us)	000 # 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
	289392 671455	3	16	70	1418	1998	1695	289392	0	599999
	397010	3	20	85	1881	1857	1936	965958	600000	1199999
	709977	3	20 8	70 50	1037 1 4 35	0 1957	0 1102	1368642 2079656	1200000 1800000	1799999 2399999
	806462 665784	1	8	60	1159	0	0	2890612	2400000	2999999
	126328	1	14	90	1719	0	0	3557555	3000000	3599999
	1100271	2	11 17	60 75	1989 1079	1609 1311	0	3685602 4789471	3600000 4200000	4199999 4799999
	501539	2	6	95	1398	1005	0	5293400	4800000	5399999
	481960 674054	2	18	95	1618	1354	0	5777763	5400000	5999999
L 2	584190	1 3	6 8	65 50	1768 1 44 6	0 1680	0 1535	6454789 7040747	6600000	6599999 7199999
:	265889	2	5	55	1263	1565	0	7311297	7200000	7799999
L	823002 579181	3	10	50	1335	1327	1832	8137127	7800000	8399999
5	427800	2	7	100	1354	1860	0	8720802	8400000	8999999
7	555186	2	5 6	60 80	1469 1415	1630 1313	0 1010	9151816 9710101	9600000	9599999 10199999
3	914866	2	16	85	1855	1589	0	10628705	10200000	10799999
	541097	2	20	90	1988	1717	0	11173246	10800000	11399999
9	501127		5	90	1270	0	0	11678078	11400000	11999999



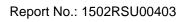
				Type	5 Radar Wa	aveform_	14			
veform Num	= 14									
m of burst rst Interv rst	s = 14 s = 19 a1 (us) = 6315 Off Time (us) 601751	79	Chirp (MHz)	₽₩	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(u
		Pulses 3	(MHZ)	(us) 50	1781	1961	1776	601751	0	631578
	604870	2	5	80	1864	1322	0	1212139	631579	1263157
	588302	2	16	100	1092	1385	0	1803627	1263158	1894736
	534923	1	12	95	1741	0	o	2341027	1894737	2526315
	612337 225664	2	15	65	1350	1373	0	2955105	2526316	3157894
	808033	1	16	95	1656	0	o	3183492	3157895	3789473
	983664	3	20	80	1229	1904	1893	3993181	3789474	4421052
	114088	2	11	80	1994	1476	0	4981871	4421053	5052631
	925961	1	18	90	1682	0 1094	0	5099429	5052632 5684211	5684210
	538476	3	15 12	65 80	1474 1417	0	1674 0	6027072 6569790	6315790	6315789 6947368
	829839	1	12	85	1600	0	0	7401046	6947369	7578947
	277281	2	12	80	1791	1361	0	7679927	7578948	8210526
	530077	2	7	55	1432	1904	0	8213156	8210527	8842105
	1200664	3	17	80	1500	1582	1204	9417156	8842106	9473684
	140776 853958	2	11	95	1179	1500	0	9562218	9473685	10105263
	614589	2	13	55	1793	1249	o	10418855	10105264	10736842
	482135	1	17	75	1318	0	0	11036486	10736843	11368421
al number	of pulses in	3 waveform = 3	11 37	50	1121	1628	1831	11519939	11368422	12000000
*****		are								
				Type	5 Radar Wa	aveform_	15			
eform Num										
n of Burst st Interv	s = 9 a1 (us)= 1333	333								
rst	Off Time (us) 1087457	# 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(u
		1	8	100	1636	0	0	1087457	0	1333332
	1418994	2	14	55	1587	1077	0	2508087	1333333	2666665
	520029	1	11	90	1858	0	0	3030780	2666666	3999998
	1182246	2	14	85	1026	1966	0	4214884	3999999	5333331
	1427717	3	5	90	1488	1872	1446	5645593	5333332	6666664
	1299190	1	7	50	1596	0	0	6949589	6666665	7999997
	1718238	2	16	75	1682	1863	0	8669423	7999998	9333330
	1813058	3	14	80	1227	1179	1566	10486026	9333331	10666663
	1171662									
	of pulses in			65	1710 *****	0	0	11661660	10666664	11999996
*****				*********		**				
				Type	5 Radar Wa	aveform_	16			
veform Nur n of Burst	n = 16									
rst Interv	7a1 (us)= 1200	0000								
rst	Off Time (us)	# Pulses	Chirp (MHz)	P₩ (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(u
	130679	2	19	55	1559	1081	0	130679	0	1199999
	1985940	3	16	70	1075	1955	1597	2119259	1200000	2399999
	634407	1	17	70	1115	0	0	2758293	2400000	3599999
	1425080									
		3	19	55	1469	1630	1756	4184488	3600000	4799999
	848475	1	5	75	1774	0	0	5037818	4800000	5999999
	1246239									
	1065709	2	20	80	1943	1631	0	6285831	6000000	7199999
		1	12	60	1314	0	0	7355114	7200000	8399999
	2209730	1	13	75	1474	0	0	9566158	8400000	9599999
		1	10	10	141.4	٧	v	2000100	0400000	JUJJJJJ
	492192									
		2	16	90	1495	1111	0	10059824	9600000	10799999
)	492192 1655428	2 1	16 10	90 90	1495 1229	1111 0	0	10059824 11717858	9600000 10800000	10799999 11999999



				Type	5 Radar W	aveform_	17			
veform N m of Bur	sts = 13									
ırst Inte ırst	erval (us)= 9230 Off Time (us))77 # 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
	370991	3	20	75	1092	1213	1144	370991	0	923076
	941341	2	8	55	1573	1247	0	1315781	923077	1846153
	1171576	3	5	100	1276	1716	1164	2490177	1846154	2769230
	331139	3	15	70	1271	1667	1063	2825472	2769231	3692307
	1585604									
	248180	3	11	65	1589	1775	1375	4415077	3692308	4615384
	1609993	3	20	55	1680	1807	1416	4667996	4615385	5538461
	863698	2	11	65	1386	1735	0	6282892	5538462	6461538
	1118592	2	14	95	1553	1974	0	7149711	6461539	7384615
		1	11	90	1487	0	0	8271830	7384616	8307692
С	130171	1	9	95	1180	0	0	8403488	8307693	9230769
1	1469372	2	14	95	1507	1051	0	9874040	9230770	10153846
2	696864	2	9	55	1273	1755	0	10573462	10153847	11076923
3	936069	1	10	90	1132	0	0	11512559	11076924	12000000
al numb	er of pulses ir	n waveform = 2	28		*******			11012009	110/0324	12000000
				Туре	5 Radar W	aveform_	18			
of Bur	ium = 18 sts = 17 rva1 (us)= 7058	.00								
st	Off Time	#	Chirp	₽₩	Pulse 1	Pulse 2	Pulse 3	Start Loc	Start Burst	End Burst
	(us) 477898	Pulses	Chirp (MHz)	(us)	Pri(us)	Pri(us)	Pri(us)	(us)	Interval (us)	Interval (us)
	654457	3	18	60	1129	1129	1256	477898	0	705881
	940239	2	18	85	1093	1217	0	1135869	705882	1411763
	424246	1 2	20 11	100 70	1760 1253	0 1331	0	2078418 2504424	1411764 2117646	21176 4 5 2823527
	675416	1	7	85	1494	0	0	3182424	2823528	3529409
	827386	1	7	90	1250	0	0	4011304	3529410	4235291
	768337	3	17	85	1353	1485	1728	4780891	4235292	4941173
	704709	1	9	75	1607	0	0	5490166	4941174	5647055
	763211	3	18	55	1308	1087	1267	6254984	5647056	6352937
	250911	2	5	65	1531	1772	0	6509557	6352938	7058819
	751648	3	5	75	1776	1240	1582	7264508	7058820	7764701
	585293	1	6	65	1254	0	0	7854399	7764702	8470583
	782052	3	17	95	1307	1315	1103	8637705	8470584	9176465
	1133952	2	5	50	1361	1745	0	9775382	9176466	9882347
	737034	2	19	55	1003	1085	0	10515522	9882348	10588229
	589588	2	7	75	1180	1493	0	11107198	10588230	11294111
1 numb	197616 er of pulses in	1 waveform = 3	12 33	50	1204	0	0	11307487	11294112	11999993
				Туре	5 Radar W	aveform	19			
eform N	Jum = 19									
st Inte	Jum = 19 rsts = 18 erval (us) = 6666 Off Time	867 # Pulsos	Chirp (MHz)	PW (vg)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us
	433227	Pulses 3	(MHz) 7	(us) 80	Pri (us <i>)</i> 1528	Pri (us <i>)</i> 1955	Pri (us) 1585	(us) 433227	Interval(us)	Interval (us 666666
	337961	2	20	95	1759	1357	0	776256	666667	1333333
	698933	2	14	70	1486	1819	0	1478305	1333334	2000000
	1073457	3	6	80	1219	1998	1917	2555067	2000001	2666667
	483506 475528	3	5	70	1992	1956	1535	3043707	2666668	3333334
	475528 850065	2	19	95	1577	1213	0	3524718	3333335	4000001
	429490	1	5	95	1764	0	0	4377573	4000002	4666668
	1056415	3	11	70	1591	1544	1232	4808827	4666669	5333335
	488328	1	10	80	1474	0	0	5869609	5333336	6000002
		3 2	11	80	1919	1670	1281	6359411	6000003	6666669
	671561		5	95	1956	1079	0	7035842	6666670	7333336
	671561 411056					0	0	7449933	7333337	8000003
		1	15	85 EE	1994	0	0	0214000	9000004	0666670
	411056	1	10	55	1702	0	0	8316988 9145646	8000004	8666670 9333337
	411056 865061	1 1 1	10 20	55 90	1702 1176	0	0	9145646	8666671	9333337
	411056 865061 826956 395686 923913	1	10	55	1702					
	411056 865061 826956 395686	1 1 1 3	10 20 8	55 90 95	1702 1176 1348	0 1682	0 1091	9145646 9542508	8666671 9333338	9333337 10000004

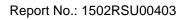


				Туре	5 Radar W	aveform_	20			
aveform N	Num = 20									
urst Inte urst	Num = 20 rsts = 20 erval (us)= 6000 Off Time	000 # Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us
1	(us) 278757	Pulses 1	18	100	1348	O Pri(us)	O Pri(us)	(us) 278757	Interval(us)	Interval (us 599999
2	891920	2	17	95	1274	1712	0	1172025	600000	1199999
3	176127	3	10	75	1930	1859	1045	1351138	1200000	1799999
4	798638	1	13	65	1801	0	0	2154610	1800000	2399999
5	316630	3	13	85	1750	1464	1785	2473041	2400000	2999999
i	771418 377279	1	7	65	1756	0	0	3249458	3000000	3599999
	954296	1	15	50	1313	0	0	3628493	3600000	4199999
	752058	3	13	95	1121	1043	1651	4584102	4200000	4799999
	635605	2	10	80	1667	1151	0	5339975	4800000	5399999
0	306677	3	5	50	1387	1679	1133	5978398	5400000	5999999
1	464203	1	13	55	1460	0	0	6289274	6000000	6599999
2	919327	1	13	55	1981	0	0	6754937 7676245	6600000	7199999 7799999
3 4	450291	1 2	19 20	100 70	1730 1628	0 1395	0	7676245 8128266	7200000 7800000	7799999 8399999
± 5	290246	2	18	85	1925	1514	0	8421535	8400000	8999999
6	756359	3	5	75	1235	1574	1757	9181333	9000000	9599999
7	768440	1	13	75	1121	0	0	9954339	9600000	10199999
8	382911	3	5	75	1791	1118	1243	10338371	10200000	10799999
9	853032	1	6	80	1298	0	0	11195555	10800000	11399999
0	759310	2	16	80	1075	1368	0	11956163	11400000	11999999
termination	ber of pulses ir	* Mareter			des	14141				
				Туре	5 Radar W	aveform_	21			
veform N m of Bur	Num = 21 rsts = 13									
rst Inte	erval (us)= 9230	# #	a. ·	₽₩	D 1 1	D 1 0	D 1 0	G	C B .	E I D
rst	Off Time (us)	# Pulses	Chirp (MHz)	(us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us
	615573	3	7	55	1797	1689	1574	615573	0	923076
	484131									
	947713	3	5	85	1377	1022	1664	1104764	923077	1846153
		2	17	95	1513	1318	0	2056540	1846154	2769230
	903972	2	5	95	1514	1383	0	2963343	2769231	3692307
	1583366									
	670467	3	8	55	1379	1002	1081	4549606	3692308	4615384
	855485	1	18	100	1463	0	0	5223535	4615385	5538461
		1	19	85	1862	0	0	6080483	5538462	6461538
	1261405	3	6	55	1109	1411	1996	7343750	6461539	7384615
	264281									
	1322665	2	5	65	1405	1686	0	7612547	7384616	8307692
)	1110398	1	8	95	1510	0	0	8938303	8307693	9230769
1		3	13	50	1139	1185	1699	10050211	9230770	10153846
2	118549	1	13	75	1884	0	0	10172783	10153847	11076923
	1225621									
3 tal numb	per of pulses in	1 waveform = 1	6 26	65	1510 *******	O tente	0	11400288	11076924	12000000
				Туре	5 Radar W	aveform_	22			
n of Bur	Num = 22 rsts = 11									
rst Inte	erval (us)= 1090	909	Ch:	₽₩	D.,1 1	Pulse 2	Pulse 3	Stont I	Ctont D	End Proces
rst	Off Time (us)	# Pulses	Chirp (MHz)	(us)	Pulse 1 Pri(us)	Pri(us)	Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us
	429467	1	20	95	1097	0	0	429467	0	1090908
	1654030									
		2	14	80	1181	1932	0	2084594	1090909	2181817
	334438	3	17	50	1925	1885	1877	2422145	2181818	3272726
	1820227									
	268292	2	14	70	1843	1305	0	4248059	3272727	4363635
		3	14	75	1746	1876	1225	4519499	4363636	5454544
	1081577									
	1005425	3	15	60	1523	1991	1106	5605923	5454545	6545453
		1	13	50	1944	0	0	6615968	6545454	7636362
	1079531		14	80	1560	1941	1821	7697443	7636363	8727271
		3								
	1147030	3	6	95	1252	1237	1626	8849795	8727272	9818180
١		3								
o	1147030		6 9	95 50	1252 1374	1237 1741	1626 0	8849795 10437515	8727272 9818181	9818180 10909089





				Type	5 Radar W	aveform_	23			
eform Num	= 23									
st Interva	: = 19 (1 (us) = 6315' Off Time (us)	79 #	Chirp (MHz)	₽₩	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst	End Burst
	(us) 85157			(us)					Interval (us)	Interval (us)
	579979	2	8	70	1339	1512	0	85157	0	631578
	944753	3	13	90	1328	1670	1664	667987	631579	1263157
	556890	2	14 19	75 65	1129 1861	1869 1273	0 1432	1617402 2177290	1263158 1894737	1894736 2526315
	868485	3	12	80	1801	1169	1660	3050341	2526316	3157894
	396781	1	6	55	1136	0	0	3451752	3157895	3789473
	429428	1	7	60	1557	0	0	3882316	3789474	4421052
	674872	3	10	50	1084	1652	1654	4558745	4421053	5052631
	1072121	3	16	80	1040	1229	1638	5635256	5052632	5684210
	602318	1	19	70	1322	0	0	6241481	5684211	6315789
	588988	2	20	50	1037	1496	0	6831791	6315790	6947368
	511376	1	17	95	1282	0	0	7345700	6947369	7578947
	278945 1068893	1	16	90	1939	0	0	7625927	7578948	8210526
	282351	3	11	85	1434	1577	1767	8696759	8210527	8842105
	770373	3	5	50	1645	1535	1432	8983888	8842106	9473684
	952767	3	17	85	1975	1442	1585	9758873	9473685	10105263
	219507	1	15	50	1051	0	0	10716642	10105264	10736842
	965503	2	14	55	1473	1863	0	10937200	10736843	11368421
1 number		waveform = 3	19 9	80	1918	0	0	11906039	11368422	12000000
		***********				141				
				Туре	5 Radar W	aveform_	24			
form Num										
of Bursts st Interva	s - 9 a1 (us)= 1333	3333								
st	Off Time (us)	# Pulses	Chirp (MHz)	P₩ (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(u
	593147									
	1701000	2	20	70	1039	1618	0	593147	0	1333332
	1781960	1	10	100	1491	0	0	2377764	1333333	2666665
	331919	*	10	100	1401	~	~	2011104	1000000	2000000
		3	16	100	1997	1791	1851	2711174	2666666	3999998
	1912279	2	E	75	1000	1051	0	4600000	2000000	E000001
	1095185	۷	5	75	1228	1851	0	4629092	3999999	5333331
	2000	2	5	60	1912	1417	0	5727356	5333332	6666664
	1070379		0.0	100	1501	1007	^	0001001	000000=	7000007
	2302032	2	20	100	1591	1827	0	6801064	6666665	7999997
	2002032	3	20	85	1881	1819	1915	9106514	7999998	9333330
	626115									
	1010107	2	20	75	1396	1283	0	9738244	9333331	10666663
	1319137	3	8	65	1087	1987	1744	11060060	10666664	11999996
1 number	of pulses ir	waveform = 2	20				1144	11000000	10000004	11222220
			******	*****		**				
				Туре	5 Radar W	aveform_	25			
	= 14									
of Bursts	a1 (us)= 8571 Off Time	#	Chirp	₽₩	Pulse 1	Pulse 2	Pulse 3	Start Loc	Start Burst	End Burst
eform Num of Bursts st Interva	(us)	Pulses	(MHz)	(us)	Pri(us)	Pri(us)	Pri(us)	(us)	Interval (us)	Interval (us
of Bursts st Interva	131264	3	14	55	1750	1234	1916	131264	0	857142
of Bursts st Interva	131264		9	85	1029	1415	0	1173801	857143	1714285
of Bursts t Interva	131264 1037637	2			1516	1178	0	2386832	1714286	2571428
of Bursts t Interva	131264	2	9	50						
of Bursts t Interva	131264 1037637	2	9	50			0	2876529	2571429	3428571
of Bursts t Interva	131264 1037637 1210587	2 2 1	18	95	1735	0				
of Bursts t Interva	131264 1037637 1210587 487003 965579	2				0	0	3843843	3428572	4285714
of Bursts t Interva	131264 1037637 1210587 487003 965579 1205084	2 2 1	18	95	1735		0 1356	3843843 5050012	3428572 4285715	4285714 5142857
of Bursts t Interva	131264 1037637 1210587 487003 965579 1205084 711188	2 2 1 1 3	18 10 14	95 90 90	1735 1085 1616	0		5050012	4285715	5142857
of Bursts t Interva	131264 1037637 1210587 487003 965579 1205084	2 2 1 1 3	18 10 14 16	95 90 90 100	1735 1085 1616 1193	0 1267 0	1356 0	5050012 5765439	4285715 5142858	5142857 6000000
of Bursts t Interva	131264 1037637 1210587 487003 965579 1205084 711188	2 2 1 1 3 1	18 10 14 16 7	95 90 90 100 100	1735 1085 1616 1193 1859	0 1267 0 0	1356 0 0	5050012 5765439 6810865	4285715 5142858 6000001	5142857 6000000 6857143
of Bursts t Interva	131264 1037637 1210587 487003 965579 1205084 711188 1044233 259926	2 2 1 1 3	18 10 14 16 7	95 90 90 100 100	1735 1085 1616 1193	0 1267 0 0 1859	1356 0 0 1943	5050012 5765439 6810865 7072650	4285715 5142858	5142857 6000000
of Bursts st Interva	131264 1037637 1210587 487003 965579 1205084 711188 1044233 259926 851906	2 2 1 1 3 1	18 10 14 16 7	95 90 90 100 100	1735 1085 1616 1193 1859	0 1267 0 0	1356 0 0	5050012 5765439 6810865	4285715 5142858 6000001	5142857 6000000 6857143
of Bursts t Interva	131264 1037637 1210587 487003 965579 1205084 711188 1044233 259926 851906 645877	2 2 1 1 3 1 1	18 10 14 16 7	95 90 90 100 100	1735 1085 1616 1193 1859 1150	0 1267 0 0 1859	1356 0 0 1943	5050012 5765439 6810865 7072650	4285715 5142858 6000001 6857144	5142857 6000000 6857143 7714286
of Bursts t Interva	131264 1037637 1210587 487003 965579 1205084 711188 1044233 259926 851906 645877 1090243	2 2 1 1 3 1 1 3 1 2 2	18 10 14 16 7 15 5	95 90 90 100 100 100 85	1735 1085 1616 1193 1859 1150 1125	0 1267 0 0 1859 0	1356 0 0 1943 0	5050012 5765439 6810865 7072650 7929508	4285715 5142858 6000001 6857144 7714287 8571430	5142857 6000000 6857143 7714286 8571429 9428572
of Bursts t Interva	131264 1037637 1210587 487003 965579 1205084 711188 1044233 259926 851906 645877	2 2 1 1 1 3 1 1 3 1 1 2 3 3	18 10 14 16 7 15 5 12	95 90 90 100 100 100 85 50	1735 1085 1616 1193 1859 1150 1125 1049	0 1267 0 0 1859 0 1290	1356 0 0 1943 0 0	5050012 5765439 6810865 7072650 7929508 8576510 9669092	4285715 5142858 6000001 6857144 7714287 8571430 9428573	5142857 6000000 6857143 7714286 8571429 9428572 10285715
of Bursts st Interva	131264 1037637 1210587 487003 965579 1205084 711188 1044233 259926 851906 645877 1090243	2 2 1 1 3 1 1 3 1 2 2	18 10 14 16 7 15 5	95 90 90 100 100 100 85	1735 1085 1616 1193 1859 1150 1125	0 1267 0 0 1859 0	1356 0 0 1943 0	5050012 5765439 6810865 7072650 7929508 8576510	4285715 5142858 6000001 6857144 7714287 8571430	5142857 6000000 6857143 7714286 8571429 9428572





				Туре	5 Radar W	aveform_	26			
aveform Nu	m = 26									
um of Burs		000								
urst	Off Time (us)	# Pulses	Chirp (MHz)	P₩ (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	542952	1	19	100	1811	0	0	542952	0	1199999
2	1621500	3	20	80	1553	1657	1277	2166263	1200000	2399999
1	790204	2	11	95	1831	1969	0	2960954	2400000	3599999
1	920885	1	15	90	1312	0	0	3885639	3600000	4799999
5	925614	3	6	90	1780	1568	1397	4812565	4800000	5999999
' I	2005372									
	392944	3	16	75	1228	1826	1866	6822682	6000000	7199999
	1947625	1	9	90	1334	0	0	7220546	7200000	8399999
	946888	1	16	80	1018	0	0	9169505	8400000	9599999
	1552137	2	14	75	1899	1633	0	10117411	9600000	10799999
)		3	17	55	1842	1818	1715	11673080	10800000	11999999
al numbe	r of pulses in	waveform = 2 *******	:U ********	******	****	**				
				Туре	5 Radar W	aveform_	27			
aveform Nu lum of Burs	um = 27									
jurst Inter	rval (us)= 9230 Off Time	77 #	Chirp	₽₩	Pulse 1	Pulse 2	Pulse 3	Start Loc	Start Burst	End Burst
	(us) 253741	Pulses	(MHz)	(us)	Pri(us)	Pri(us)	Pri(us)	(us)	Interval (us)	Interval (us)
1	1410988	2	13	55	1429	1279	0	253741	0	923076
2	532082	2	20	95	1060	1223 0	0	1667437	923077	1846153
1	995900	2	19 12	60 95	1096 1052	1094	0	2201802 3198798	1846154 2769231	2769230 3692307
4 5	857531	3	15	100	1032	1767	1002	4058475	3692308	4615384
, 5	563681	2	18	95	1757	1562	0	4625955	4615385	5538461
7	1225917	1	8	50	1265	0	0	5855191	5538462	6461538
3	1330178	2	19	75	1457	1017	0	7186634	6461539	7384615
9	453332	1	16	95	1630	0	0	7642440	7384616	8307692
10	1290356	1	7	75	1455	0	0	8934426	8307693	9230769
11	787878	3	9	100	1650	1983	1260	9723759	9230770	10153846
12	1097981	2	10	55	1163	1770	0	10826633	10153847	11076923
13 Fotal numbe	908736 er of pulses in	1 waveform = 2	16 23	80	1908 *******	0	0	11738302	11076924	12000000

				Туре	5 Radar W	aveform_	28			
aveform Nu Num of Burs Surst Inter		1000								
urst	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	914856	3	12	80	1486	1989	1265	914856	0	1199999
2	855543		8	80	1917	0	0	1775139	1200000	2399999
	1518537	1								
3	1197852	2	17	85	1555	1095	0	3295593	2400000	3599999
4	934152	2	9	75	1845	1474	0	4496095	3600000	4799999
5	632163	2	10	95	1128	1897	0	5433566	4800000	5999999
6	1904490	2	18	50	1037	1091	0	6068754	6000000	7199999
7		3	9	100	1068	1495	1233	7975372	7200000	8399999
8	644500	2	6	75	1025	1077	0	8623668	8400000	9599999
9	1762362	2	10	75	1137	1059	0	10388132	9600000	10799999
	1351475	3	8	55	1759	1798	1016	11741803	10800000	11999999
10										





				Type	5 Radar Wa	aveform_2	29			
um of Bur	Num = 29 rsts = 10 erval (us)= 1200	000								
ırst	Off Time (us) 462811	# 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
	1238296	2	9	55	1673	1448	0	462811	0	1199999
		1	12	70	1848	0	0	1704228	1200000	2399999
	1336650 1538332	2	13	60	1774	1865	0	3042726	2400000	3599999
	359495	3	9	85	1809	1492	1333	4584697	3600000	4799999
		1	12	90	1757	0	0	4948826	4800000	5999999
	1102027	1	13	100	1204	0	0	6052610	6000000	7199999
	1676642	1	9	55	1455	0	0	7730456	7200000	8399999
	1751910	2	7	90	1648	1785	0	9483821	8400000	9599999
	171227	1	6	95	1531	0	0	9658481	9600000	10799999
1	1196564	1	6	60	1106	0	0	10856576	10800000	11999999
tal numb	ber of pulses in ***************	. waveform = 1 *********	5 **********				30			
lO otal numb *******	ber of pulses in	waveform = 1	5 ************		5 Radar Wa		30			
tal numk ******** weform um of Bu urst Int	Mum = 30 rrsts = 9 rerval (us)= 1333 Off Time (us)	******	5 ******* Chirp (MHz)				Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(u
tal numb ******* veform m of Bu rst Int	Num = 30 mrsts = 9 erval (us) = 1333 Off Time (us) 1261524	**************************************	**************************************	Type :	5 Radar Wa	aveform_:	Pulse 3			
veform we for the true true true true true true true tru	Mum = 30 rrsts = 9 rerval (us)= 1333 Off Time (us)	**************************************	Chirp (MHz)	Type	Pulse 1 Pri (us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	(us)	Interval (us)	Interval (u
veform: m of Burst Int	Num = 30 mrsts = 9 erval (us) = 1333 Off Time (us) 1261524	**************************************	Chirp (MHz) 13 14	Pw (us) 70 85	Pulse 1 Pri(us) 1236 1016	Pulse 2 Pri(us)	Pulse 3 Pri(us) 0	(us) 1261524 1403249	Interva1 (us) 0 1333333	Interval (t 1333332 2666665
veform: m of Bu	Num = 30 ursts = 9 erval (us) = 1333 Off Time (us) 1261524 140489	**************************************	Chirp (MHz) 13 14	P\(\psi\) (us) 70 85 100	Pulse 1 Pri(us) 1236 1016 1256	Pulse 2 Pri(us) 0 1484	Pulse 3 Pri(us) 0 1266	(us) 1261524 1403249 2707132	Interval(us) 0 1333333 2666666	Interval (t 1333332 2666665 3999998
veform: mof Bu rst Int	Num = 30 rsts = 9 cerval (us) = 1333 Off Time (us) 1261524 140489 1300117	**************************************	Chirp (MHz) 13 14 8 7	PW (us) 70 85 100 70	Pulse 1 Pri (us) 1236 1016 1256 1384	Pulse 2 Pri(us) 0 1484 0	Pulse 3 Pri(us) 0 1266 0	(us) 1261524 1403249 2707132 5008230	Interval (us) 0 1333333 2666666 3999999	Interval (t 1333332 2666665 3999998 5333331
veform:	Num = 30 mrsts = 9 rerval (us) = 1333 Off Time (us) 1261524 140489 1300117 2299842	**************************************	Chirp (MHz) 13 14 8 7	P\((us) \) 70 85 100 70 60	Pulse 1 Pri(us) 1236 1016 1256 1384 1791	Pulse 2 Pri(us) 0 1484 0 1543 1542	Pulse 3 Pri(us) 0 1266 0 1352 1766	(us) 1261524 1403249 2707132 5008230 5459593	Interval (us) 0 1333333 2666666 3999999 5333332	Interval (to 1333332 2666665 3999998 5333331 6666664
tal numb	Num = 30 rrsts = 9 rerval (us) = 1333 Off Time (us) 1261524 140489 1300117 2299842 447084	**************************************	Chirp (MHz) 13 14 8 7 8 14	PW (us) 70 85 100 70 60 90	Pulse 1 Pri(us) 1236 1016 1256 1384 1791 1025	Pulse 2 Pri(us) 0 1484 0 1543 1542 1505	Pulse 3 Pri(us) 0 1266 0 1352 1766	(us) 1261524 1403249 2707132 5008230 5459593 6666919	Interval(us) 0 1333333 2666666 399999 5333332 6666665	Interval (u 1333332 2666665 399998 5333331 6666664 7999997
tal numb	Num = 30 ursts = 9 erval (us) = 1333 Off Time (us) 1261524 140489 1300117 2299842 447084 1202227	**************************************	Chirp (MHz) 13 14 8 7 8 14	PW (us) 70 85 100 70 60 90 60	Pulse 1 Pri(us) 1236 1016 1256 1384 1791 1025 1000	Pulse 2 Pri(us) 0 1484 0 1543 1542 1505 1617	Pulse 3 Pri(us) 0 1266 0 1352 1766 1180	(us) 1261524 1403249 2707132 5008230 5459593 6666919 8397224	Interval(us) 0 1333333 2666666 3999999 5333332 6666665 7999998	Interval (u 1333332 2666665 399998 5333331 6666664 7999997 9333330
tal numk ********* aveform : um of Bu	Num = 30 ursts = 9 erval (us) = 1333 Off Time (us) 1261524 140489 1300117 2299842 447084 1202227 1726595	**************************************	Chirp (MHz) 13 14 8 7 8 14	PW (us) 70 85 100 70 60 90	Pulse 1 Pri(us) 1236 1016 1256 1384 1791 1025	Pulse 2 Pri(us) 0 1484 0 1543 1542 1505	Pulse 3 Pri(us) 0 1266 0 1352 1766	(us) 1261524 1403249 2707132 5008230 5459593 6666919	Interval(us) 0 1333333 2666666 399999 5333332 6666665	Interval (u 1333332 2666665 399998 5333331 6666664 7999997



Radar Type 6 - Radar Statistical Performance

Trail #	Test Freq.	1=Detection	Trail #	Test Freq.	1=Detection
	(MHz)	0=No Detection		(MHz)	0=No Detection
1	5329	1	16	5329	1
2	5329	1	17	5329	1
3	5329	1	18	5329	1
4	5329	1	19	5329	1
5	5329	1	20	5329	1
6	5329	1	21	5329	1
7	5329	1	22	5329	1
8	5329	1	23	5329	1
9	5329	1	24	5329	1
10	5329	1	25	5329	1
11	5329	1	26	5329	1
12	5329	1	27	5329	1
13	5329	1	28	5329	1
14	5329	1	29	5329	1
15	5329	1	30	5329	1
	Det	ection Percentage	(%)		100%



F	Radar waveform #	1	Radar waveform #2			
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)	
0	5308	0	11	5321	33	
13	5320	39	20	5319	60	
33	5301	99	24	5318	72	
38	5311	114	51	5308	153	
41	5324	123	52	5358	156	
52	5329	156	62	5333	186	
66	5335	198	66	5349	198	
74	5356	222	68	5329	204	
75	5351	225	71	5312	213	
77	5355	231	90	5341	270	
80	5353	240	99	5328	297	
85	5348	255		1		
96	5310	288				
98	5345	294				

F	Radar waveform #	3	F	Radar waveform #	4
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
3	5335	9	13	5304	39
12	5316	36	28	5327	84
18	5356	54	30	5323	90
32	5303	96	40	5336	120
34	5312	102	55	5311	165
44	5304	132	57	5329	171
45	5324	135	59	5314	177
55	5317	165	65	5348	195
56	5326	168	77	5333	231
59	5352	177	78	5312	234
60	5323	180	92	5353	276
82	5299	246	96	5308	288
			98	5352	294



F	Radar waveform #	5	F	Radar waveform #	6
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
27	5352	81	7	5300	21
30	5316	90	17	5356	51
39	5299	117	29	5355	87
55	5343	165	47	5315	141
59	5331	177	50	5346	150
63	5357	189	55	5312	165
66	5314	198	59	5302	177
76	5320	228	84	5340	252
78	5330	234	93	5348	279
81	5359	243	95	5321	285
85	5332	255	99	5299	297
91	5307	273	-1		

F	Radar waveform #	7	Radar waveform #8			
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)	
Number	(MHz)		Number	(MHz)		
2	5305	6	6	5335	18	
5	5350	15	10	5316	30	
8	5346	24	32	5336	96	
11	5333	33	36	5340	108	
18	5328	54	42	5357	126	
20	5331	60	54	5341	162	
37	5344	111	61	5312	183	
41	5359	123	66	5299	198	
53	5322	159	71	5353	213	
55	5316	165	77	5319	231	
65	5335	195	94	5333	282	
71	5330	213	98	5338	294	
74	5355	222				



F	Radar waveform #	9	Radar waveform #10			
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)	
Number	(MHz)		Number	(MHz)		
12	5356	36	6	5337	18	
21	5347	63	8	5349	24	
32	5311	96	14	5314	42	
43	5320	129	24	5306	72	
49	5344	147	46	5299	138	
54	5300	162	48	5358	144	
55	5332	165	64	5307	192	
63	5303	189	68	5346	204	
72	5309	216	73	5347	219	
80	5341	240	95	5338	285	
98	5342	294	99	5352	297	

R	adar waveform #1	11	R	adar waveform #1	12
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
11	5333	33	18	5307	54
13	5342	39	22	5302	66
14	5308	42	30	5305	90
28	5349	84	31	5314	93
56	5318	168	34	5357	102
58	5327	174	49	5330	147
60	5309	180	54	5353	162
79	5301	237	55	5333	165
80	5306	240	57	5328	171
86	5343	258	58	5346	174
93	5299	279	73	5351	219
			74	5354	222
			82	5329	246
			83	5315	249





R	adar waveform #1	13	R	adar waveform #1	14
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
3	5316	9	1	5303	3
14	5328	42	14	5326	42
16	5348	48	20	5339	60
18	5305	54	34	5311	102
25	5315	75	35	5357	105
31	5345	93	42	5346	126
35	5308	105	50	5327	150
36	5319	108	54	5302	162
45	5318	135	55	5332	165
53	5317	159	64	5301	192
60	5303	180	84	5309	252
75	5321	225	85	5299	255
87	5330	261	89	5330	267
89	5322	267	98	5313	294





R	adar waveform #	15	R	adar waveform #	16
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
5	5306	15	4	5358	12
12	5302	36	6	5337	18
15	5336	45	7	5300	21
31	5353	93	13	5311	39
34	5344	102	22	5338	66
36	5321	108	23	5349	69
42	5338	126	26	5314	78
83	5313	249	42	5336	126
90	5311	270	45	5301	135
97	5319	291	50	5335	150
99	5323	297	62	5330	186
			65	5350	195
			68	5310	204
			83	5341	249
			84	5333	252
			86	5299	258
			94	5320	282



Radar waveform #17			Radar waveform #18		
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
21	5309	63	1	5355	3
29	5303	87	13	5309	39
37	5345	111	17	5356	51
44	5357	132	19	5346	57
58	5317	174	20	5359	60
64	5347	192	30	5350	90
81	5308	243	39	5349	117
90	5331	270	55	5342	165
			69	5344	207
			91	5352	273
			93	5321	279

Radar waveform #19			Radar waveform #20		
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
0	5309	0	4	5315	12
3	5350	9	16	5350	48
4	5339	12	23	5307	69
13	5354	39	30	5310	90
27	5349	81	42	5347	126
40	5322	120	43	5339	129
44	5347	132	53	5326	159
54	5323	162	54	5352	162
75	5301	225	56	5314	168
			58	5353	174
			61	5301	183
			72	5340	216



Radar waveform #21			Radar waveform #22			
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)	
Number	(MHz)		Number	(MHz)		
8	5299	24	19	5307	57	
17	5326	51	22	5339	66	
24	5321	72	32	5315	96	
25	5304	75	37	5337	111	
36	5308	108	47	5358	141	
43	5340	129	60	5345	180	
57	5345	171	64	5342	192	
59	5301	177	74	5320	222	
61	5359	183	96	5303	288	
62	5302	186				
64	5309	192				
80	5356	240				
82	5320	246				
83	5348	249				
88	5322	264				
90	5343	270				

Radar waveform #23			Radar waveform #24		
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
2	5356	6	13	5356	39
34	5314	102	22	5311	66
39	5315	117	24	5302	72
40	5303	120	28	5336	84
57	5347	171	40	5357	120
68	5311	204	46	5333	138
70	5306	210	62	5338	186
72	5358	216	68	5348	204
80	5353	240	77	5322	231
88	5355	264	88	5350	264
96	5329	288			
99	5336	297			





Radar waveform #25			Radar waveform #26			
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)	
Number	(MHz)		Number	(MHz)		
1	5331	3	2	5310	6	
2	5327	6	6	5335	18	
17	5342	51	33	5349	99	
28	5340	84	38	5332	114	
34	5301	102	41	5320	123	
37	5303	111	42	5346	126	
48	5337	144	43	5330	129	
49	5329	147	51	5302	153	
55	5349	165	52	5326	156	
59	5322	177	60	5317	180	
68	5325	204	75	5312	225	
72	5309	216	83	5347	249	
91	5343	273	90	5356	270	
93	5344	279	91	5355	273	
96	5320	288				



R	Radar waveform #27			Radar waveform #28			
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)		
Number	(MHz)		Number	(MHz)			
12	5345	36	10	5313	30		
14	5310	42	11	5341	33		
21	5329	63	22	5319	66		
36	5356	108	29	5343	87		
53	5321	159	32	5310	96		
57	5307	171	35	5324	105		
60	5357	180	38	5321	114		
63	5339	189	45	5312	135		
82	5351	246	47	5356	141		
83	5332	249	53	5306	159		
87	5358	261	61	5318	183		
90	5304	270	66	5339	198		
92	5335	276	77	5316	231		
			80	5337	240		
			84	5350	252		
			87	5309	261		
			94	5300	282		
			96	5330	288		

Radar waveform #29			Radar waveform #30		
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
1	5330	3	42	5303	126
3	5314	9	47	5329	141
15	5301	45	63	5352	189
21	5302	63	66	5323	198
38	5322	114	73	5350	219
52	5346	156	77	5351	231
70	5299	210	87	5322	261
81	5338	243			
91	5332	273			
96	5327	288			
97	5308	291			



6. CONCLUSION

The data collected relate only the item(s) tested and show that the WIFI dual band 4 GE I	_AN
GPON HGU FCC ID: 2ABLK-8X4G-1V2 is in compliance with Part 15E of the FCC Rules	

The End