

MRT Technology (Suzhou) Co., Ltd

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

Report No.: 1407RSU01405 Report Version: Issue Date: 08-06-2014

## DFS MEASUREMENT REPORT

## FCC PART 15.407 / IC RSS-210 WLAN 802.11a/n/ac

FCC ID: 2ABLK-8X4G-1

IC: 4009A-8X4G1

APPLICANT: Calix Inc.

**Application Type:** Certification

WIFI dual band 4 GE LAN GPON HGU **Product:** 

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

**Brand Name:** Calix

**FCC Classification:** Unlicensed National Information Infrastructure (UNII)

FCC Rule Part(s): Part 15.407

IC Specification(s): RSS-210 Issue 8

Type of Device: Master Device

Client Device (No radar detection)

Client Device with radar detection

**Test Date:** July 23 ~ 29, 2014

Reviewed By : Robin Wu )

Approved By : Marlinchen



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 D01. 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.

FCC ID: 2ABLK-8X4G-1 IC: 4009A-8X4G1

Page Number: 1 of 114





## **Revision History**

Report No.	Version	Description	Issue Date
1407RSU01405	Rev. 01	Initial report	08-06-2014

FCC ID: 2ABLK-8X4G-1 Page Number: 2 of 114



## **CONTENTS**

De	scriptio	n Pa	age
Rev	ision H	listory	2
§2.	1033 Ge	eneral Information	5
1.	INTRO	DDUCTION	6
	1.1.	Scope	6
	1.2.	MRT Test Location	
2.	PROD	DUCT INFORMATION	7
	2.1.		
	2.1.	Equipment Description  Description of Available Antennas	
	2.2.		
	2.3. 2.4.	DFS Band Carrier Frequencies Operation  Test Mode	
3.	DFS [	DETECTION THRESHOLDS AND RADAR TEST WAVEFORMS	. 10
	3.1.	Applicability	. 10
	3.2.	DFS Devices Requirements	11
	3.3.	DFS Detection Threshold Values	. 12
	3.4.	Parameters of DFS Test Signals	. 13
	3.5.	Conducted Test Setup	. 14
4.	TEST	EQUIPMENT CALIBRATION DATE	. 15
5.	TEST	RESULT	. 16
	5.1.	Summary	. 16
	5.2.	Radar Waveform Calibration	. 17
	5.2.1.	Calibration Setup	. 17
	5.2.2.	Calibration Procedure	. 17
	5.2.3.	Cablibration Result	. 18
	5.2.4.	Test Setup Photo	. 21
	5.3.	UNII Detection Bandwidth Measurement	. 22
	5.3.1.	Test Limit	. 22
	5.3.2.	Test Procedure	. 22
	5.3.3.	Test Result	. 23
	5.4.	Initial Channel Availability Check Time Measurement	. 29
	5.4.1.	Test Limit	. 29
	5.4.2.	Test Procedure	. 29
	5.4.3.	Test Result	. 30
	5.5.	Radar Burst at the Beginning of the Channel Availability Check Time Measurement .	. 31





6.	CONC	LUSION	114
	5.8.3.	Test Result	40
	5.8.2.	Test Procedure	38
	5.8.1.	Test Limit	38
	5.8.	Statistical Performance Check Measurement	38
	5.7.3.	Test Result	36
	5.7.2.	Test Procedure Used	35
	5.7.1.	Test Limit	35
١	lon-Occ	upancy Period Measurement	35
	5.7.	In-Service Monitoring for Channel Move Time, Channel Closing Transmission Time	ie and
	5.6.3.	Test Result	34
	5.6.2.	Test Procedure	33
	5.6.1.	Test Limit	33
	5.6.	Radar Burst at the End of the Channel Availability Check Time Measurement	33
	5.5.3.	Test Result	32
	5.5.2.	Test Procedure	31
	5.5.1.	Test Limit	31



## §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 Registration No.:	809388			
MRT IC Registration No.:	11384A			
Model No.:	844G-1, 854G-1			
FCC ID:	2ABLK-8X4G-1			
IC:	4009A-8X4G1			
Test Device Serial No.:	N/A ☐ Production ☐ Pre-Production ☐ Engineering			
Date(s) of Test:	July 23 ~ 29, 2014			
Test Report S/N:	1407RSU01405			

## **Test Facility / Accreditations**

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

- 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.
- 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 and Industry Canada (11384A-1).
- MRT facility is an IC registered (11384A-1) test laboratory with the site description on file at Industry Canada.

American Association for Laboratory Accreditation

Accredited Laboratory

All An to securities

MRT TECHNOLOGY (SUZHOU) CO., LTD.

Suzhou, China

The Inherity in accredited in succession in the field of

Electrical Testing

This laboratory in succession of the recognical triviantian Mandred BOIEC 1782-2805 Grown of requirements for the compositor of using and collaborators haborators. This succession determined by the compositor of using and collaborators haborators are the recognical formation advanced to the succession of the compositor of using and collaborators and the compositor of the succession of the compositor of using and collaborators and the compositor of the succession of the compositor of using and collaborators and the compositor of the succession of the compositors of the succession of the compositors of the succession of the compositors of the succession of the succession of the compositors of the succession of the su

FCC ID: 2ABLK-8X4G-1 IC: 4009A-8X4G1



## 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

Product Name	WIFI dual band 4 GE LAN GPON HGU			
Model No.	844G-1, 854G-1			
Radio Type	Intentional Transceiver			
Operation Mode	Master Device			
Frequency Range	For 802.11a/n-HT20:			
	5260~5320MHz, 5500~5580, 5660~5700MHz			
	For 802.11ac-VHT20:			
	5260~5320MHz, 5500~5580MHz, 5660~5720MHz			
	For 802.11n-HT40:			
	5270~5310MHz, 5510~5550MHz, 5670MHz			
	For 802.11ac-VHT40:			
	5270~5310MHz, 5510~5550MHz, 5670~5710MHz			
	For 802.11ac-VHT80:			
	5290MHz, 5530MHz, 5690MHz			
Maximum Output Power	802.11a: 20.73dBm			
	802.11n-HT20: 20.55dBm			
	802.11n-HT40: 20.35dBm			
	802.11ac-VHT20: 20.28dBm			
	802.11ac-VHT40: 20.42dBm			
	802.11ac-VHT80: 19.98dBm			
Type of Modulation	802.11a/n/ac: OFDM;			
Power-on cycle	Requires 168.0 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: There are different Fiber modules of model number, and evaluated the different Fiber module in "FCC DOC report".

FCC ID: 2ABLK-8X4G-1 Page Number: 7 of 114





## 2.2. Description of Available Antennas

Antenna	Frequency	T <sub>X</sub> Paths	Direction	al Gain (dBi)
Туре	Band (GHz)		Non Beam Forming	Beam Forming
	2.4	2	1.90	
	5.2	4	2.17	8.04
PCB Antenna	5.3	4	2.03	7.78
	5.6	4	2.55	8.38
	5.8	4	2.70	8.70

#### Note:

- 1. Transmit at 2.4GHz support two antennas, and support four antennas at 5GHz transmit.
- 2. The EUT supports Beam Forming mode, and the Beam Forming support 802.11n/ac, not include 802.11a.
- 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<sup>G1/20</sup> + 10<sup>G2/20</sup> + ... + 10<sup>GN/20</sup>)<sup>2</sup>/N<sub>ANT</sub>] 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-1 Page Number: 8 of 114



## 2.3. 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
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
132	5660 MHz	136	5680 MHz	140	5700 MHz
144	5720 MHz				

## 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	134	5670 MHz		

## 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	134	5670 MHz	142	5710MHz

## 802.11ac-VHT80 Center Working Frequency of Each Channel

Channel	Frequency	Channel	Frequency	Channel	Frequency
58	5290 MHz	106	5530 MHz	138	5690 MHz

## 2.4. Test Mode

Test Mode	Normal Operation

FCC ID: 2ABLK-8X4G-1 Page Number: 9 of 114



## 3. DFS DETECTION THRESHOLDS AND RADAR TEST WAVEFORMS

## 3.1. Applicability

The following table from KDB 905462 D01 lists the applicable requirements for the DFS testing.

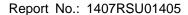
Requirement	Operational Mode							
	Master	Client Without	Client With Radar					
		Radar Detection	Detection					
Non-Occupancy Period	Yes	Not required	Yes					
DFS Detection Threshold	Yes	Not required	Yes					
Channel Availability Check Time	Yes	Not required	Not required					
Uniform Spreading	Yes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

Tablet 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				

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

FCC ID: 2ABLK-8X4G-1 Page Number: 10 of 114





## 3.2. DFS Devices Requirements

## Per KDB 905462 D01 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  $5250 \sim 5350$  MHz and  $5470 \sim 5725$  MHz bands. DFS is not required in the  $5150 \sim 5250$  MHz or  $5725 \sim 5825$  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.

Tollowing 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 80% of the U-NII 99% transmission
	power bandwidth. See Note 3.
Note 1: The instant that the Channel Move Tim	e and the Channel Closing Transmission Time begins

FCC ID: 2ABLK-8X4G-1 Page Number: 11 of 114



#### is as follows:

- For the Short Pulse Radar Test Signals this instant is the end of the Burst.
- For the Frequency Hopping radar Test Signal, this instant is the end of the last radar Burst generated.
- For the Long Pulse Radar Test Signal this instant is the end of the 12 second period defining the Radar Waveform.

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 1 is used and 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 and 2)					
≥ 200 milliwatt	-64 dBm					
< 200 milliwatt	-62 dBm					

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

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

**Tablet 3-4: Detection Thresholds for Master Devices** 

FCC ID: 2ABLK-8X4G-1 Page Number: 12 of 114



## 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.

Radar Type	Pulse Width (µsec)	PRI (µsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
1	1	1428	18	60%	30
2	1 ~ 5	150 ~ 230	23 ~ 29	60%	30
3	6 ~ 10	200 ~ 500	16 ~ 18	60%	30
4	11 ~ 20	200 ~ 500	12 ~ 16	60%	30
	Aggregate (Ra	adar Types 1	-4)	80%	120

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

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	60%	30

**Tablet 3-6: Parameters for Long Pulse Radar Waveforms** 

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

**Tablet 3-7: Parameters for Frequency Hopping Radar Waveforms** 

FCC ID: 2ABLK-8X4G-1 Page Number: 13 of 114



## 3.5. Conducted Test Setup

The RSS-210 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.

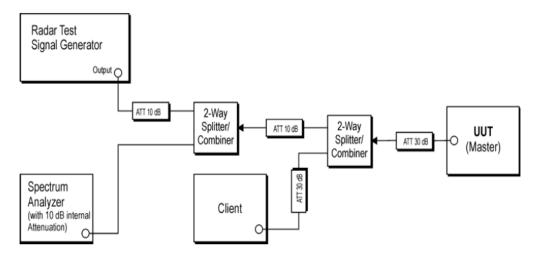


Figure 3-1: Conducted Test Setup where UUT is a Master and Radar Test Waveforms are injected into the Masters



## 4. TEST EQUIPMENT CALIBRATION DATE

Dynamic Frequency Selection (DFS)

Instrument	Manufacturer	Type No.	Serial No.	Cali. Due Date
Spectrum Analyzer	Agilent	N9010A	MY51440164	2014/08/15
ESG Vector Signal Generator	Agilent	E4438C	MY49872484	2014/12/14

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

FCC ID: 2ABLK-8X4G-1 Page Number: 15 of 114





## 5. TEST RESULT

5.1. Summary

Company Name: <u>WIFI dual band 4 GE LAN GPON HGU</u>

FCC ID: <u>2ABLK-8X4G-1</u> IC: <u>4009A-8X4G1</u>

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

FCC ID: 2ABLK-8X4G-1 Page Number: 16 of 114



### 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.

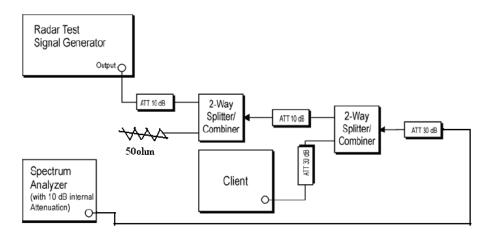


Figure 3-2: Conducted Test Setup

#### 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.

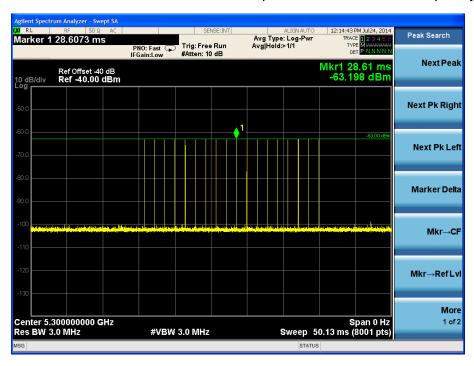
FCC ID: 2ABLK-8X4G-1 Page Number: 17 of 114



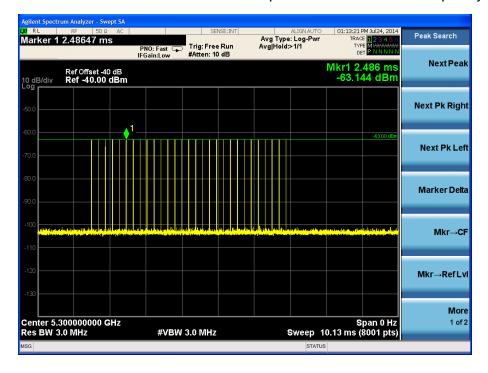


## 5.2.3. Cablibration Result

Radar #1 DFS detection threshold level and the burst of pulses on the Channel frequency



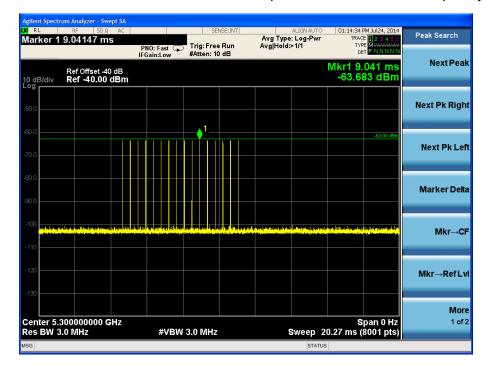
Radar #2 DFS detection threshold level and the burst of pulses on the Channel frequency



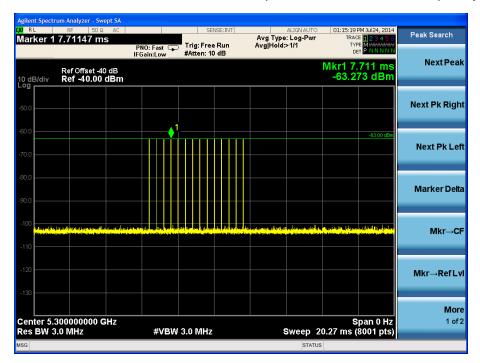


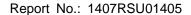


Radar #3 DFS detection threshold level and the burst of pulses on the Channel frequency



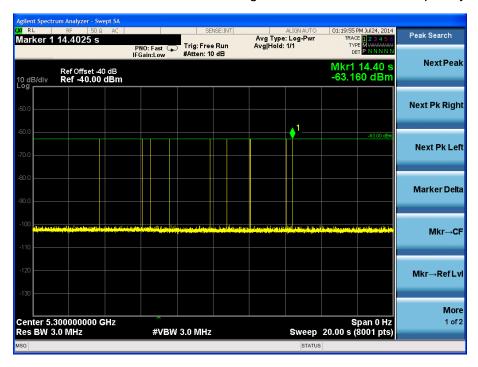
Radar #4 DFS detection threshold level and the burst of pulses on the Channel frequency



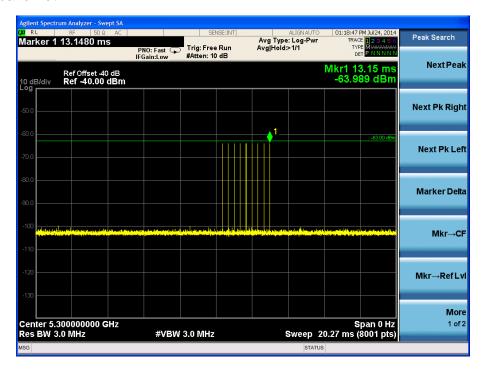




Radar #5 DFS detection threshold level and 12sec long burst on the Channel frequency



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







## 5.2.4. Test Setup Photo

Description: Test Setup Photo





## 5.3. UNII Detection Bandwidth Measurement

#### 5.3.1. Test Limit

Minimum 80% of the UNII 99% transmission power bandwidth. During the U-NII Detection Bandwidth detection test, radar type 1 is used and for each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

#### 5.3.2. Test Procedure

- 1. Adjust the equipment to produce a single Burst of the Short Pulse Radar Type 1 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 4.1.1.
- 3. The EUT is set up as a stand-alone device (no associated Client and no traffic). Frame based systems will be set to a talk/listen ratio of 0%/100% during this test.
- 4. Generate 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.
- 5. Starting at the center frequency of the EUT operating Channel, increase 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 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 80% of the EUT transmitter 99% power, otherwise, the EUT does not comply with DFS requirements.

FCC ID: 2ABLK-8X4G-1 Page Number: 22 of 114



### 5.3.3. Test Result

EUT Frequency=5300MHz for 802.11n-HT20											
Radar Frequency	DFS Detection Trials (1=Detection, 0= No Detection)										
(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 = 16.72MHz (see note)

UNII Detection Bandwidth Min. Limit (MHz): 16.72MHz x 80% = 13.38MHz

Note: All UNII channels for this device have identical Channel bandwidths. Therefore, all DFS testing was done at 5300MHz. The 99% channel bandwidth is 16.72MHz. (See the 99% BW section of the RF report for further measurement details).

FCC ID: 2ABLK-8X4G-1 Page Number: 23 of 114 IC: 4009A-8X4G1

Page Number: 24 of 114



EUT Frequency=5510MHz for 802.11n-HT40											
Radar Frequency			DFS	Dete	ction	Trials	(1=D	etecti	on, 0=	No E	Detection)
(MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5491	0	0	0	0	0	0	0	0	0	0	0%
5492	0	0	0	0	0	0	0	0	0	0	0%
5493 FL	1	1	1	1	1	1	1	1	1	1	100%
5494	1	1	1	1	1	1	1	1	1	1	100%
5495	1	1	1	1	1	1	1	1	1	1	100%
5496	1	1	1	1	1	1	1	1	1	1	100%
5497	1	1	1	1	1	1	1	1	1	1	100%
5498	1	1	1	1	1	1	1	1	1	1	100%
5499	1	1	1	1	1	1	1	1	1	1	100%
5500	1	1	1	1	1	1	1	1	1	1	100%
5501	1	1	1	1	1	1	1	1	1	1	100%
5502	1	1	1	1	1	1	1	1	1	1	100%
5503	1	1	1	1	1	1	1	1	1	1	100%
5504	1	1	1	1	1	1	1	1	1	1	100%
5505	1	1	1	1	1	1	1	1	1	1	100%
5506	1	1	1	1	1	1	1	1	1	1	100%
5507	1	1	1	1	1	1	1	1	1	1	100%
5508	1	1	1	1	1	1	1	1	1	1	100%
5509	1	1	1	1	1	1	1	1	1	1	100%
5510	1	1	1	1	1	1	1	1	1	1	100%
5511	1	1	1	1	1	1	1	1	1	1	100%
5512	1	1	1	1	1	1	1	1	1	1	100%
5513	1	1	1	1	1	1	1	1	1	1	100%
5514	1	1	1	1	1	1	1	1	1	1	100%
5515	1	1	1	1	1	1	1	1	1	1	100%
5516	1	1	1	1	1	1	1	1	1	1	100%
5517	1	1	1	1	1	1	1	1	1	1	100%
5518	1	1	1	1	1	1	1	1	1	1	100%
5519	1	1	1	1	1	1	1	1	1	1	100%
5520	1	1	1	1	1	1	1	1	1	1	100%
5521	1	1	1	1	1	1	1	1	1	1	100%

FCC ID: 2ABLK-8X4G-1



Report No.: 1407RSU01405

5522	1	1	1	1	1	1	1	1	1	1	100%
5523	1	1	1	1	1	1	1	1	1	1	100%
5524	1	1	1	1	1	1	1	1	1	1	100%
5525	1	1	1	1	1	1	1	1	1	1	100%
5526	1	1	1	1	1	1	1	1	1	1	100%
5527 FH	1	1	1	1	1	1	1	1	1	1	100%
5528	0	0	0	0	0	0	0	0	0	0	0%
5529	0	0	0	0	0	0	0	0	0	0	0%

Detection Bandwidth = FH - FL = 5527MHz - 5293MHz = 34MHz

EUT 99% Bandwidth = 36.27MHz (see note)

UNII Detection Bandwidth Min. Limit (MHz): 36.27MHz x 80% = 29.02MHz

Note: All UNII channels for this device have identical Channel bandwidths. Therefore, all DFS testing was done at 5510MHz. The 99% channel bandwidth is 36.27MHz. (See the 99% BW section of the RF report for further measurement details).

FCC ID: 2ABLK-8X4G-1 IC: 4009A-8X4G1

Page Number: 26 of 114



EUT Frequency=5530MHz for 802.11ac-VHT80											
Radar Frequency	DFS Detection Trials (1=Detection, 0= No Detection)										
(MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5494	0	0	0	0	0	0	0	0	0	0	0%
5495	0	0	0	0	0	0	0	0	0	0	0%
5496 FL	1	1	1	1	1	1	1	1	1	1	100%
5497	1	1	1	1	1	1	1	1	1	1	100%
5498	1	1	1	1	1	1	1	1	1	1	100%
5499	1	1	1	1	1	1	1	1	1	1	100%
5500	1	1	1	1	1	1	1	1	1	1	100%
5501	1	1	1	1	1	1	1	1	1	1	100%
5502	1	1	1	1	1	1	1	1	1	1	100%
5503	1	1	1	1	1	1	1	1	1	1	100%
5504	1	1	1	1	1	1	1	1	1	1	100%
5505	1	1	1	1	1	1	1	1	1	1	100%
5506	1	1	1	1	1	1	1	1	1	1	100%
5507	1	1	1	1	1	1	1	1	1	1	100%
5508	1	1	1	1	1	1	1	1	1	1	100%
5509	1	1	1	1	1	1	1	1	1	1	100%
5510	1	1	1	1	1	1	1	1	1	1	100%
5511	1	1	1	1	1	1	1	1	1	1	100%
5512	1	1	1	1	1	1	1	1	1	1	100%
5513	1	1	1	1	1	1	1	1	1	1	100%
5514	1	1	1	1	1	1	1	1	1	1	100%
5515	1	1	1	1	1	1	1	1	1	1	100%
5516	1	1	1	1	1	1	1	1	1	1	100%
5517	1	1	1	1	1	1	1	1	1	1	100%
5518	1	1	1	1	1	1	1	1	1	1	100%
5519	1	1	1	1	1	1	1	1	1	1	100%
5520	1	1	1	1	1	1	1	1	1	1	100%
5521	1	1	1	1	1	1	1	1	1	1	100%
5522	1	1	1	1	1	1	1	1	1	1	100%
5523	1	1	1	1	1	1	1	1	1	1	100%
5524	1	1	1	1	1	1	1	1	1	1	100%

FCC ID: 2ABLK-8X4G-1





5525	1	1	1	1	1	1	1	1	1	1	100%
5526	1	1	1	1	1	1	1	1	1	1	100%
5527	1	1	1	1	1	1	1	1	1	1	100%
5528	1	1	1	1	1	1	1	1	1	1	100%
5529	1	1	1	1	1	1	1	1	1	1	100%
5530	1	1	1	1	1	1	1	1	1	1	100%
5531	1	1	1	1	1	1	1	1	1	1	100%
5532	1	1	1	1	1	1	1	1	1	1	100%
5533	1	1	1	1	1	1	1	1	1	1	100%
5534	1	1	1	1	1	1	1	1	1	1	100%
5535	1	1	1	1	1	1	1	1	1	1	100%
5536	1	1	1	1	1	1	1	1	1	1	100%
5537	1	1	1	1	1	1	1	1	1	1	100%
5538	1	1	1	1	1	1	1	1	1	1	100%
5539	1	1	1	1	1	1	1	1	1	1	100%
5540	1	1	1	1	1	1	1	1	1	1	100%
5541	1	1	1	1	1	1	1	1	1	1	100%
5542	1	1	1	1	1	1	1	1	1	1	100%
5543	1	1	1	1	1	1	1	1	1	1	100%
5544	1	1	1	1	1	1	1	1	1	1	100%
5545	1	1	1	1	1	1	1	1	1	1	100%
5546	1	1	1	1	1	1	1	1	1	1	100%
5547	1	1	1	1	1	1	1	1	1	1	100%
5548	1	1	1	1	1	1	1	1	1	1	100%
5549	1	1	1	1	1	1	1	1	1	1	100%
5550	1	1	1	1	1	1	1	1	1	1	100%
5551	1	1	1	1	1	1	1	1	1	1	100%
5552	1	1	1	1	1	1	1	1	1	1	100%
5553	1	1	1	1	1	1	1	1	1	1	100%
5554	1	1	1	1	1	1	1	1	1	1	100%
5555	1	1	1	1	1	1	1	1	1	1	100%
5556	1	1	1	1	1	1	1	1	1	1	100%
5557	1	1	1	1	1	1	1	1	1	1	100%
5558	1	1	1	1	1	1	1	1	1	1	100%

FCC ID: 2ABLK-8X4G-1



Report No.: 1407RSU01405

5559	1	1	1	1	1	1	1	1	1	1	100%
5560	1	1	1	1	1	1	1	1	1	1	100%
5561	1	1	1	1	1	1	1	1	1	1	100%
5562	1	1	1	1	1	1	1	1	1	1	100%
5563	1	1	1	1	1	1	1	1	1	1	100%
5564 FH	1	1	1	1	1	1	1	1	1	1	100%
5565	0	0	0	0	0	0	0	0	0	0	0%
5566	0	0	0	0	0	0	0	0	0	0	0%

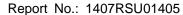
Detection Bandwidth = FH - FL = 5564MHz - 5496MHz = 68MHz

EUT 99% Bandwidth = 74.87MHz (see note)

UNII Detection Bandwidth Min. Limit (MHz): 74.87MHz x 80% = 59.90MHz

Note: All UNII channels for this device have identical Channel bandwidths. Therefore, all DFS testing was done at 5530MHz. The 99% channel bandwidth is 74.87MHz. (See the 99% BW section of the RF report for further measurement details).

FCC ID: 2ABLK-8X4G-1 Page Number: 28 of 114





## 5.4. Initial Channel Availability Check Time Measurement

### 5.4.1. 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.

### 5.4.2. Test Procedure

- 1. The U-NII devices will be powered on and be instructed to operate on the appropriate U-NII Channel that must incorporate DFS functions. At the same time the EUT is powered on, the spectrum analyzer will be set to zero span mode with a 3 MHz RBW and 3 MHz VBW on the Channel occupied by the radar (Chr) with a 2.5 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.

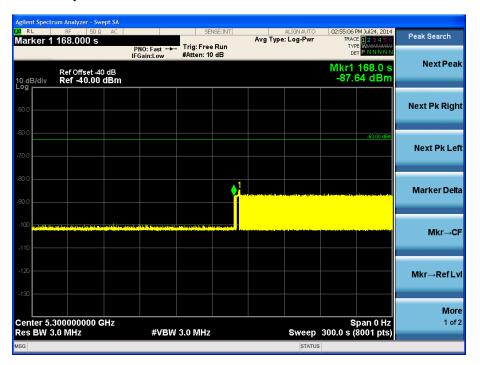
FCC ID: 2ABLK-8X4G-1 Page Number: 29 of 114

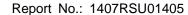


### 5.4.3. Test Result

The EUT does not transmit any beacon or data transmissions until at least 1 minute after the completion of the power-on cycle (108.0 sec). Initial beacons/data transmissions are indicated by marker 1 (168.0 sec).

Initial Channel Availability Check Time for 802.11n-HT20







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

### 5.5.1. Test Limit

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

#### 5.5.2. Test Procedure

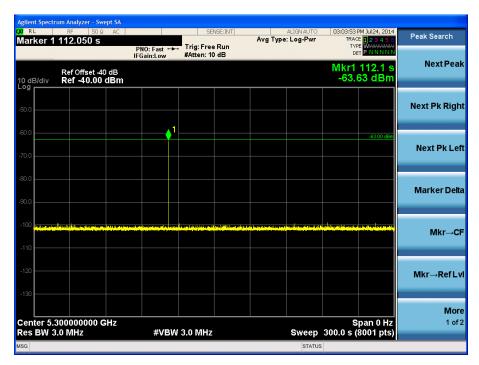
- 1. The steps below define the procedure to verify successful radar detection on the selected Channel during a period equal to the Channel Availability Check Time and avoidance of operation on that Channel when a radar Burst with a level equal to the DFS Detection Threshold + 1 dB occurs at the beginning of the Channel Availability Check Time.
- 2. The EUT is in completion power-up cycle (from T0 to T1). T1 denotes the instant when the EUT has completed its power-up sequence. The Channel Availability Check Time commences at instant T1 and will end no sooner than T1 + 60 seconds. A single Burst of one of Short Pulse Radar Types 1-4 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 802.11n-HT20) will continue for 112.1 seconds after the radar Burst has been generated. Verify that during the 2.5 minutes measurement window no EUT transmissions occurred at 5300MHz (for 802.11n-HT20).

FCC ID: 2ABLK-8X4G-1 Page Number: 31 of 114



## 5.5.3. Test Result

Radar Burst at the Beginning of the Channel Availability Check Time for 802.11n-HT20 (Radar Type 1#)







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

### 5.6.1. Test Limit

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

#### 5.6.2. Test Procedure

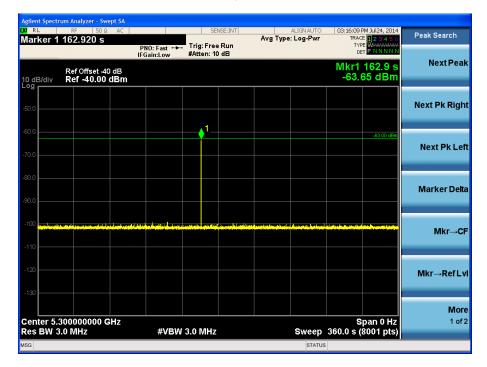
- 1. The steps below define the procedure to verify successful radar detection on the selected Channel during a period equal to the Channel Availability Check Time and avoidance of operation on that Channel when a radar Burst with a level equal to the DFS Detection Threshold + 1 dB occurs at the beginning of the Channel Availability Check Time.
- 2. The EUT is powered on at T0. T1 denotes the instant when the EUT has completed its power-up sequence. The Channel Availability Check Time commences at instant T1 and will end no sooner thanT1 + 60 seconds. A single Burst of one of Short Pulse Radar Types 1-4 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 802.11n-HT20) will continue for 162.9 seconds after the radar Burst has been generated. Verify that during the 2.5 minutes measurement window no EUT transmissions occurred at 5300MHz (for 802.11n-HT20).

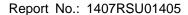
FCC ID: 2ABLK-8X4G-1 Page Number: 33 of 114



## 5.6.3. Test Result

Radar Burst at the End of the Channel Availability Check Time for 802.11n-HT20 (Radar Type 1#)







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

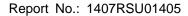
### 5.7.1. Test Limit

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

#### 5.7.2. Test Procedure Used

- 1. The test should be performed with Radar Type 1. The measurement timing begins at the end of the Radar Type 1.
- 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.
- 2. 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).
- 3. 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, <math>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 (4.5 ms) = N (3) 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.
- 4. 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.

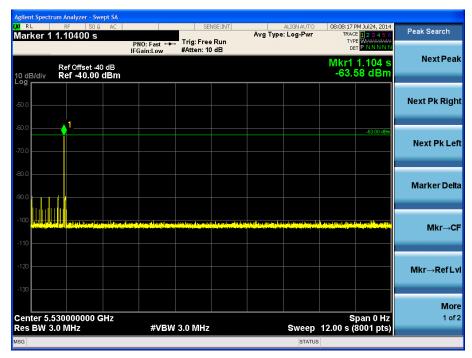
FCC ID: 2ABLK-8X4G-1 Page Number: 35 of 114

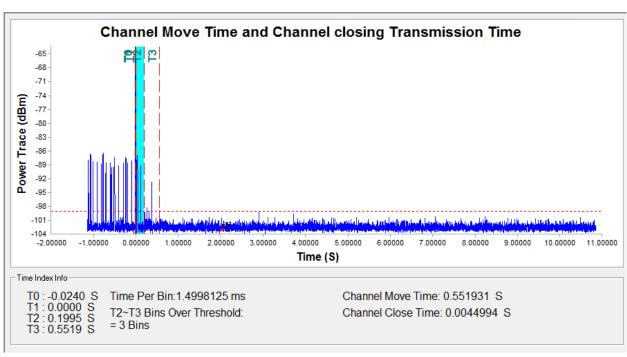




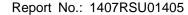
### 5.7.3. Test Result

Channel Move Time and Channel Closing Transmission Time for 802.11ac-VHT80 (Radar Type 1#)

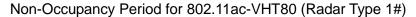




FCC ID: 2ABLK-8X4G-1 IC: 4009A-8X4G1









Parameter	Test Result	Limit
	Radar Type 1	
Test Channel (MHz)	5530	N/A
Channel Move Time (s)	0.5519	<10
Channel Closing Transmission Time (ms) (Note)	4.50	< 60
Non-Occupancy Period (min)	≥ 30	≥ 30

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.

Page Number: 38 of 114



## 5.8. Statistical Performance Check Measurement

## 5.8.1. Test Limit

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

Radar Type	Minimum Number of Trails	Detection Probability
1	30	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.

## 5.8.2. Test Procedure

- 1. Stream the MPEG test file from the Master Device to the Client Device on the test Channel for the entire period of the test.
- 2. At time T0 the Radar Waveform generator sends the individual waveform for each of the Radar Types 1-6, at levels equal to the DFS Detection Threshold + 1dB, on the Operating Channel.
- 3. Observe the transmissions of the EUT at the end of the Burst on the Operating Channel for duration greater than 10 seconds for Short Pulse Radar Types 1-4 and 6 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

FCC ID: 2ABLK-8X4G-1

Report No.: 1407RSU01405

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-1 Page Number: 39 of 114



## 5.8.3. Test Result

For 802.11n-HT20

Type 1 Radar Statistical Performance

Trail #	Test Freq.	Pulse Width	PRI (us)	Pulses / Burst	1=Detection
	(MHz)	(us)			0=No Detection
1	5300	1	1428	18	1
2	5300	1	1428	18	1
3	5300	1	1428	18	1
4	5300	1	1428	18	1
5	5300	1	1428	18	1
6	5300	1	1428	18	1
7	5300	1	1428	18	1
8	5300	1	1428	18	1
9	5300	1	1428	18	1
10	5300	1	1428	18	1
11	5300	1	1428	18	1
12	5300	1	1428	18	1
13	5300	1	1428	18	1
14	5300	1	1428	18	1
15	5300	1	1428	18	1
16	5300	1	1428	18	1
17	5300	1	1428	18	1
18	5300	1	1428	18	1
19	5300	1	1428	18	1
20	5300	1	1428	18	1
21	5300	1	1428	18	1
22	5300	1	1428	18	1
23	5300	1	1428	18	1
24	5300	1	1428	18	1
25	5300	1	1428	18	1
26	5300	1	1428	18	1
27	5300	1	1428	18	1
28	5300	1	1428	18	1
29	5300	1	1428	18	1
30	5300	1	1428	18	1
	Det	ection Percentage	(%)		100%





Type 2 Radar Statistical Performance

Trail #	Test Freq.	Pulse Width	PRI (us)	Pulses / Burst	1=Detection
	(MHz)	(us)			0=No Detection
1	5300	2.0	158	29	1
2	5300	2.5	167	24	1
3	5300	3.0	210	24	1
4	5300	1.2	161	25	1
5	5300	2.3	217	27	1
6	5300	2.7	207	27	1
7	5300	1.3	151	23	1
8	5300	4.4	155	27	1
9	5300	1.2	165	27	1
10	5300	3.7	198	28	1
11	5300	3.6	159	24	1
12	5300	3.9	195	27	1
13	5300	1.3	157	28	1
14	5300	1.3	221	23	1
15	5300	2.4	200	27	1
16	5300	2.2	181	29	1
17	5300	2.4	171	24	1
18	5300	4.7	186	29	1
19	5300	4.0	221	24	1
20	5300	2.0	196	23	1
21	5300	3.9	203	25	1
22	5300	2.7	154	26	1
23	5300	2.0	161	26	1
24	5300	2.1	173	28	1
25	5300	3.8	184	26	1
26	5300	4.2	202	26	1
27	5300	1.9	191	27	1
28	5300	1.5	193	28	1
29	5300	2.0	218	28	1
30	5300	2.9	199	24	1
	Det	ection Percentage	(%)		100%





Type 3 Radar Statistical Performance

Trail #	Test Freq.	Pulse Width	PRI (us)	Pulses / Burst	1=Detection
	(MHz)	(us)			0=No Detection
1	5300	7.1	292	16	1
2	5300	9.0	354	18	1
3	5300	6.8	285	16	1
4	5300	7.9	304	17	1
5	5300	9.9	387	16	1
6	5300	9.8	378	16	1
7	5300	7.5	440	17	1
8	5300	8.0	428	18	1
9	5300	9.3	305	17	0
10	5300	9.8	268	18	1
11	5300	6.2	314	16	1
12	5300	7.3	354	18	1
13	5300	6.8	407	16	1
14	5300	7.2	379	17	1
15	5300	8.5	419	17	1
16	5300	6.0	278	17	1
17	5300	7.6	273	16	1
18	5300	8.3	471	17	1
19	5300	7.4	408	18	1
20	5300	8.8	403	16	1
21	5300	9.1	303	16	1
22	5300	9.8	365	17	1
23	5300	10.0	469	17	1
24	5300	9.1	255	17	1
25	5300	7.5	386	16	1
26	5300	7.4	328	17	1
27	5300	8.0	354	17	1
28	5300	6.6	380	18	1
29	5300	6.9	265	16	1
30	5300	8.9	439	16	1
	Det	ection Percentage	(%)		96.7%



Type 4 Radar Statistical Performance

Trail #	Test Freq.	Pulse Width	PRI (us)	Pulses / Burst	1=Detection
	(MHz)	(us)			0=No Detection
1	5300	18.3	266	14	1
2	5300	11.4	463	14	1
3	5300	20.0	273	12	1
4	5300	11.2	252	15	1
5	5300	19.4	278	15	1
6	5300	16.3	335	14	1
7	5300	20.0	404	13	1
8	5300	12.5	252	15	1
9	5300	15.0	363	12	1
10	5300	15.0	416	15	1
11	5300	12.8	462	12	1
12	5300	15.5	331	12	1
13	5300	11.3	479	14	1
14	5300	17.0	468	12	1
15	5300	19.1	450	16	1
16	5300	17.7	302	13	1
17	5300	15.0	443	14	1
18	5300	15.3	469	15	1
19	5300	11.3	372	13	1
20	5300	13.9	280	14	0
21	5300	13.4	360	16	1
22	5300	16.6	381	13	1
23	5300	18.7	432	15	1
24	5300	19.1	347	16	1
25	5300	12.7	413	16	1
26	5300	12.5	495	13	1
27	5300	11.7	386	12	1
28	5300	19.3	267	16	1
29	5300	12.2	389	16	1
30	5300	11.1	403	14	1
	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:  $\frac{P_d 1 + P_d 2 + P_d 3 + P_d 4}{4} = (100\% + 100\% + 96.7\% + 96.7\%)/4 = 98.33\% (>80\%)$ 

FCC ID: 2ABLK-8X4G-1 Page Number: 43 of 114





Type 5 Radar Statistical Performance

Trail #	Test Freq.	1=Detection	Trail#	Test Freq.	1=Detection
	(MHz)	0=No Detection		(MHz)	0=No Detection
1	5300	1	16	5300	1
2	5300	1	17	5300	1
3	5300	1	18	5300	1
4	5300	1	19	5300	1
5	5300	1	20	5300	1
6	5300	1	21	5300	1
7	5300	1	22	5300	1
8	5300	1	23	5300	1
9	5300	1	24	5300	1
10	5300	1	25	5300	1
11	5300	1	26	5300	1
12	5300	1	27	5300	1
13	5300	1	28	5300	1
14	5300	1	29	5300	1
15	5300	1	30	5300	1
	Det	ection Percentage	(%)		100%

				Type	5 Radar W	/aveform	1_1			
	Jum = 1 ests = 14 erval (us)= 8571	43								
rst	Off Time (us) 205637	# 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
	995611	1	14	70	1991	0	0	205637	0	857142
	1054285	1	13	60	1558	0	0	1203239	857143	1714285
		2	11	85	1090	1592	0	2259082	1714286	2571428
	740533	3	15	75	1207	1250	1009	3002297	2571429	3428571
	854830	2	14	85	1666	1365	0	3860593	3428572	4285714
	432074	2	11	70	1455	1410	0	4295698	4285715	5142857
	1118591	2	6	60	1229	1676	0	5417154	5142858	6000000
	1429848	2	12	65	1281	1965	0	6849907	6000001	6857143
	296217	2	19	85	1419	1347	0	7149370	6857144	7714286
)	632795	1	13	80	1156	0	0	7784931	7714287	8571429
ı	1421138	1	20	55	1834	0	0	9207225	8571430	9428572
2	643730	1	5	85	1497	0	0	9852789	9428573	10285715
3	543151	3	12	70	1030	1673	1313	10397437	10285716	11142858
1	1108319	1	14	100	1361	0	0	11509772	11142859	12000001
tal numb	er of pulses in		4				~	11000112	11112000	12000001

FCC ID: 2ABLK-8X4G-1 Page Number: 44 of 114





				Type !	5 Radar W	laveform	_2			
veform Nu m of Burs	um = 2									
rst Inter	rval (us)= 8000	#	Chirp	PW	Pulse 1	Pulse 2	Pulse 3	Start Loc	Start Burst	End Burst
	(us) 153752	Pulses	Chirp (MHz)	(us)	Pri(us)	Pri(us)	Pri(us)	(us)	Interval (us)	Interval (u
	818767	2	19	90	1569	1417	0	153752	0	799999
	668984	2	7	70	1300	1295	0	975505	800000	1599999
	1229093	3	19	65	1578	1593	1810	1647084	1600000	2399999
	607198	2	13	75	1302	1885	0	2881158	2400000	3199999
	1193607	2	11	95	1823	1205	0	3491543	3200000	3999999
		3	12	95	1342	1736	1889	4688178	4000000	4799999
	143233	1	17	55	1264	0	0	4836378	4800000	5599999
	1182714	1	8	80	1309	0	0	6020356	5600000	6399999
	416989	1	16	65	1917	0	0	6438654	6400000	7199999
	768882	1		70	1176	0	0	7209453	7200000	7999999
	867541		11			·	-			
	776223	1	5	95	1853	0	0	8078170	8000000	8799999
	1356454	3	7	75	1965	1127	1934	8856246	8800000	9599999
	696523	3	16	60	1358	1656	1534	10217726	9600000	10399999
		3	19	95	1944	1373	1531	10918797	10400000	11199999
-1 1	353654	3	18	70	1687	1952	1183	11277299	11200000	11999999
al numbe ******	er of pulses ir	waveform = 3  *******	)   	****		okok				
				Type :	5 Radar W	/aveform	_3			
eform Nu	um = 3									
of Burs st Inter	sts = 16 rval (us)= 7500	00								
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
	208320	2	13	85	1397	1953	0		0	749999
	1044300							208320		
	729395	1	15	75	1026	0	0	1255970	750000	1499999
	559686	1	15	90	1182	0	0	1986391	1500000	2249999
	606846	2	12	65	1105	1704	0	2547259	2250000	2999999
	981370	2	11	55	1202	1735	0	3156914	3000000	3749999
	604021	3	15	55	1168	1642	1952	4141221	3750000	4499999
	1000119	1	5	70	1694	0	0	4750004	4500000	5249999
	592747	1	5	55	1270	0	0	5751817	5250000	5999999
		2	5	95	1289	1991	0	6345834	6000000	6749999
	943726	1	12	80	1722	0	О	7292840	6750000	7499999
	639630	2	6	60	1428	1106	0	7934192	7500000	8249999
	725401	1	14	80	1751	0	0	8662127	8250000	8999999
	456922	3	18	70	1106	1106	1783	9120800	9000000	9749999
	1038095	2	5	50	1674	1513	0	10162890	9750000	10499999
	771764	3								
	810847	3	15	75	1102	1340	1601	10937841	10500000	11249999
al numbe	er of pulses in	. waveform = 2	13 28 ***************	65 ******	1775	0	0	11752731	11250000	11999999
				Type	5 Radar W	laveform	4			
				Type (	, radai Vi	aveloiiii				
eform Nu of Burs st Inter	um = 4 sts = 14 rval (us)= 8571	43								
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
	(us) 344439	3	13	55	1477	1323	1771	344439	0	857142
	765406									
	1112001	3	10	65	1123	1594	1143	1114416	857143	1714285
	485486	2	18	100	1659	1391	0	2230277	1714286	2571428
		1	13	60	1069	0	0	2718813	2571429	3428571
	1052111	2	6	80	1791	1821	0	3771993	3428572	4285714
	1317597	3	12	70	1926	1736	1573	5093202	4285715	5142857
	670931	1	20	90	1972	0	0	5769368	5142858	6000000
	602766									
	502527	1	17	80	1856	0	0	6374106	6000001	6857143
	1037870	3	10	95	1391	1963	1710	6878489	6857144	7714286
		2	17	60	1862	1302	0	7921423	7714287	8571429
	968243	1	9	95	1083	0	0	8892830	8571430	9428572
							1226	9701654	9428573	10285715
	807741	3	10	50	1738	1210	1226			
	807741 719455									
		3 1 2	10 13 14	50 85 55	1738 1430 1588	0 1997	0	10425283 11657267	10285716 11142859	11142858





				Type !	5 Radar V	Vaveform	า_5			
veform Nu n of Burs										
	val (us)= 1200	0000								
rst	Off Time (us) 1178607	# 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
	525223	2	12	70	1277	1410	0	1178607	0	1199999
		2	13	70	1184	1622	0	1706517	1200000	2399999
	1711251	2	11	90	1636	1019	0	3420574	2400000	3599999
	1024164	2	6			1070	0			
	1519443			50	1827			4447393	3600000	4799999
	598396	2	13	85	1890	1243	0	5969733	4800000	5999999
		2	17	90	1925	1420	0	6571262	6000000	7199999
	1441139	2	12	100	1422	1118	0	8015746	7200000	8399999
	1428980	1	10	80	1306	0	0	9447266	8400000	9599999
	213016									
	1859561	1	12	55	1702	0	0	9661588	9600000	10799999
al numbe	r of pulses in	2 waveform =	8 18	75	1656	1615	0	11522851	10800000	11999999
					******	***				
				Type \$	5 Radar V	Vaveform	n_6			
form Num	n = 6									
t Interv	n = 6 ts = 20 val (us)= 60000 Off Time (us)	# _	Chirp (MHz)	PW .	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst En	i Burst terval(us)
	(us) 440764	Pulses 2	(MHz) 7	(us) 70	Pri (us) 1906	Pri(us) 1311	Pri(us)	(us) 440764		terval (us) 99999
	303561	2	12	65	1655	1831	0	747542		199999
	740642 359987	2	11	65	1725	1415	0	1491670	1200000 1	799999
	1111920	3	14	75	1401	1978	1405	1854797		399999
	403271	3	9 15	60 90	1677 1418	1007 1894	1058 0	2971501 3378514		999999 599999
	384142	3	6	55	1410	1421	1917	3765968		199999
	953163 146312	2	15	65	1891	1425	0	4723879	4200000 4	799999
	662808	2	19	65	1475	1320	0	4873507		399999
	596035	2	13 17	80 95	1416 1029	1369 1428	0	5539110 6137930		999999 599999
	1055923	2	13	50	1048	1919	0	7196310		199999
	204404 936646	3	10	65	1008	1159	1789	7403681	7200000 7	799999
	512836	1	17	85	1639	0	0	8344283		39999
	491194	3	6	70	1621	1570	1559	8858758		999999
	593403	2	8	85 90	1326 1597	1016 1675	0	9354702 9950447		599999 5199999
	512417	2	17	95	1363	1611	0	10466136		799999
	522150	2	15	90	1032	1690	0	10991260		1399999
1 number	891684 r of pulses in	2 waveform = 4	14 4	75	1327	1395	0	11885666	11400000 1	1999999
				Type !	5 Radar V	Vaveform	7			
eform Nu	am = Y			.,,,,,,	- Indual I		<u></u>			
of Burs st Inter st	m = 7 sts = 19 val (us)= 6315 Off Time (us)	79 # Pulses	Chirp	PW (us)	Pulse 1 Pri(us)	Pulse 2	Pulse 3	Start Loc	Start Burst Interval(us	End Burst
	295362	2	6	85	1173	1402	0	(us) 295362	Interval (us.	631578
	586288	1	16	95	1304	0	0	884225	631579	1263157
	602110	1	10	65	1995	0	0	1487639	1263158	1894736
	544300 651104	1	20	50	1805	0	0	2033934	1894737	2526315
	851751	3	10	100	1816	1414	1056	2686843	2526316	3157894
	442551	3	18	65	1917	1812	1077	3542880	3157895	3789473
	646739	2	10	70	1878	1756	0	3990237	3789474	4421052
	759432	3	8	75 50	1517	1653	1557	4640610 5404769	4421053	5052631
	590048	1 3	7 19	50 80	1145 1226	0 1379	0 1568	5404769 5995962	5052632 5684211	5684210 6315789
	395483	3	20	50	1663	1153	1313	6395618	5684211 6315790	6947368
	1142072	1	19	85	1938	0	0	7541819	6947369	7578947
		2	9	60	1292	1333	0	7772560	7578948	8210526
	228803				1760	0	0	8283582	8210527	8842105
	508397	1	6	50						
	508397 1070409	1	6 17	50 70	1657	0	0	9355751	8842106	9473684
	508397 1070409 236469					0 1198	0 1359	9355751 9593877	8842106 9473685	9473684 10105263
	508397 1070409 236469 571504	1	17	70	1657					
	508397 1070409 236469	1 3	17 15	70 70	1657 1043	1198	1359	9593877	9473685	10105263

FCC ID: 2ABLK-8X4G-1 Page Number: 46 of 114





				Type	5 Radar V	Vaveforn	n_8			
veform Nu n of Burs	um = 8									
st Inter	rval (us)= 9230 Off Time	77 #	Chirp	PW	Pulse 1	Pulse 2	Pulse 3	Start Loc	Start Burst	End Burst
	(us) 715729	Pulses	(MHz)	(us)	Pri(us)	Pri(us)	Pri(us)	(us)	Interval (us)	Interval (us)
	636014	3	9	65	1052	1914	1678	715729	0	923076
	543308	3	17	65	1345	1124	1089	1356387	923077	1846153
	1416794	3	11	70	1544	1195	1437	1903253	1846154	2769230
	1162996	1	13	75	1583	0	0	3324223	2769231	3692307
	237041	2	18	90	1966	1950	0	4488802	3692308	4615384
		2	19	70	1101	1432	0	4729759	4615385	5538461
	1120952	2	5	80	1131	1414	0	5853244	5538462	6461538
	1190364	1	5	90	1316	0	0	7046153	6461539	7384615
	442237	3	16	80	1371	1026	1567	7489706	7384616	8307692
	870554	3	11	85	1288	1286	1823	8364224	8307693	9230769
	1301115	2	16	85	1290	1725	0	9669736	9230770	10153846
	696307	1	10	80	1003	0	0	10369058	10153847	11076923
	1391943	3	14	65	1599	1918	1365	11762004	11076924	12000000
al numbe	er of pulses in	waveform = 2	29		*****		1305	11102004	11010524	12000000
				Type	5 Radar V	Vaveforn	n 9			
eform Nu	um = 9			-71			<u></u>			
of Burs st Inter	rts = 20 rval (us)= 60000 Off Time (us) 298721	00 #	Chirp	PW	Pulse 1	Pulse 2	Pulse 3	Start Loc	Start Burst En	d Burst
st	(us) 298721	Pulses	(MHz)	(us)	Pri(us)	Pulse 2 Pri(us)	Pri(us)	(us)	Interval (us) In	terval (us)
	453998	1	18	60	1381	0	0	298721		99999
	687067	2	8 19	85 60	1271 1520	1874 1250	o 1641	754100 1444312		199999 799999
	885950	1	15	60	1686	0	0	2334673		399999
	452128	2	8	90	1826	1581	0	2788487		999999
	804114	1	14	80	1704	0	0	3596008	3000000 3	599999
	355159 654751	1	18	85	1059	0	0	3952871	3600000 4	199999
	323874	3	7	90	1996	1448	1923	4608681		799999
	958769	3	14	60	1417	1608	1227	4937922		399999
	467933	3	15 15	95 90	1881 1919	o 1982	o 1227	5900943 6370757		999999 599999
	562467	3	12	55	1596	1581	1847	6938352		199999
	478202 506760	1	7	65	1776	0	0	7421578		799999
	506760 804435	1	13	80	1363	0	0	7930114		399999
	600914	3	11	80	1205	1980	1156	8735912		999999
	322182	1	14	85 65	1304	0	0	9341167		599999
	889427	3	5 11	65 90	1448 1244	0 1159	1162	9664653 10555528		0199999
	529127	3	10	65	1217	1193	1265	11088220		1399999
al numbe	455786 er of pulses in	1	17	100	1351	0	0	11547681		1999999
			<del></del>	******		*				
				Type !	5 Radar W	/aveform	_10			
eform Nu of Burs st Inter	um = 10 sts = 12 rval (us)= 1000	0000								
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(
	161118	1	17	90	1566	0	0	161118	0	999999
	1046550	2	17	100	1679	1363	0	1209234	1000000	1999999
	1453758									
	693592	3	9	60	1017	1729	1348	2666034	2000000	2999999
	1273251	3	17	95	1699	1460	1145	3363720	3000000	3999999
		1	9	90	1475	0	0	4641275	4000000	4999999
	649535	2	7	65	1140	1564	0	5292285	5000000	5999999
	1144749	1	7	85		0	0	6439738		
	1357622				1834				6000000	6999999
	822560	3	13	60	1450	1310	1851	7799194	7000000	7999999
		2	15	75	1151	1596	0	8626365	8000000	8999999
	1058853	1	17	80	1478	0	0	9687965	9000000	9999999
	376565		11	80	1556	n	n	10066009	1,000,000	10000000
	376565 1051416	1	11 18	80 85	1556 1554	0 1076	0	10066008 11118980	10000000 11000000	10999999 11999999





				Type 5	Radar W	aveform	_11			
veform Num	= 11									
rst Interva	= 11 := 18 il (us)= 6666 Off Time (us) 216767	67 # 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)
	895015	1	13	60	1349	0	0	216767	0	666666
	339722	2	19	70	1941	1530	0	1113131	666667	1333333
	680371	1	16	55	1510	0	0	1456324	1333334	2000000
	529251	2	17	90	1889	1070	0	2138205	2000001	2666667
	696918	1	17	65	1934	0	0	2670415	2666668	3333334
	1085110	2	12	50	1676	1509	0	3369267	3333335	4000001
	681261	2	13 5	60	1385	1986	0	4457562	4000002	4666668
	360253	2	13	55 75	1626 1286	1388 1445	1988	5142194 5507449	4666669 5333336	5333335 6000002
	638276	3	6	95	1130	1486	1786	6148456	6000003	6666669
	1121838	2	11	70	1603	1308	0	7274696	6666670	7333336
	676948	1	19	100	1361	0	0	7954555	7333337	8000003
	538701	1	6	70	1023	0	0	8494617	8000004	8666670
	526409	2	9	80	1622	1010	0	9022049	8666671	9333337
	487102	1	13	80	1969	0	0	9511783	9333338	10000004
	630829	3	19	80	1078	1373	1060	10144581	10000005	10666671
	914477 618970	1	19	55	1910	0	0	11062569	10666672	11333338
al number		1 waveform = 3	18	50	1036	0	0	11683449	11333339	12000005
*******	******	******				*				
				Type 5	Radar W	aveform	_12			
eform Num of Bursts	s = 10									
	al (us)= 1200 Off Time	#	Ch:	PW	P1 1	B1 == 2	Bules 2	C++ I	C++ P+	F., J D.,
rst	(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(u
	157740	2	7	75	1645	1533	0	157740	0	1199999
	2189045									
	107931	3	7	60	1202	1357	1544	2349963	1200000	2399999
		3	15	65	1263	1695	1784	2461997	2400000	3599999
	2044890	2	7	65	1968	1819	0	4511629	3600000	4799999
	1022020									
	560341	3	11	60	1722	1573	1819	5537436	4800000	5999999
		3	19	55	1615	1075	1582	6102891	6000000	7199999
	1956359	2	20	100	1850	1710	0	8063522	7200000	8399999
	775473									
	1085967	2	7	80	1747	1152	0	8842555	8400000	9599999
		2	15	70	1031	1637	0	9931421	9600000	10799999
	1935605	2	12	85	1921	1096	0	11869694	10800000	11999999
	of pulses in	n waveform = 2	24		1921		U	11003034	10800000	11999999
al number		kakakakakakakakakakak								
		este skerke skerke skerke skerke skerke sk								
				Type 5	Radar W	aveform	_13			
********* eform Num	= 13			Type 5	Radar W	aveform	_13			
*********  eform Num of Bursts st Interva	= 13 = 15 = 1 (us) = 8000 Off Time	000		PW	Pulse 1	Pulse 2	Pulse 3	Start Loc	Start Burst Interval(us)	End Burst
*********  eform Num of Bursts st Interva	= 13 s = 15 sl (us)= 8000	000 # Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	(us)	Interval (us)	Interval (us
al number	= 13 = 15 al (us) = 8000 Off Time (us)	000 # Pulses 3	Chirp (MHz) 10	PW (us) 90	Pulse 1 Pri(us) 1076	Pulse 2 Pri(us) 1442	Pulse 3 Pri(us) 1224	(us) 738740	Interval (us)	Interval (us 799999
*********  eform Num of Bursts st Interva	= 13 s = 15 s1 (us) = 8000 Off Time (us) 738740	000 # Pulses 3	Chirp (MHz) 10	PW (us) 90 50	Pulse 1 Pri(us) 1076 1725	Pulse 2 Pri(us) 1442 1565	Pulse 3 Pri(us) 1224 0	(us) 738740 1372511	Interval (us) 0 800000	Interval (us 799999 1599999
al number	= 13 = 15 sl (us) = 8000 Off Time (us) 738740 630029	# Pulses 3 2 3	Chirp (MHz) 10 11	PW (us) 90 50 100	Pulse 1 Pri(us) 1076 1725 1375	Pulse 2 Pri(us) 1442 1565 1106	Pulse 3 Pri(us) 1224 0 1993	(us) 738740 1372511 1624241	Interval (us) 0 800000 1600000	Interval (us 799999 1599999 2399999
al number	= 13 s = 15 s = 15 s = 15 000 0ff Time (us) 738740 630029 248440	000 #Pulses 3 2 3	Chirp (MHz) 10 11 9	PW (us) 90 50 100 50	Pulse 1 Pri(us) 1076 1725 1375	Pulse 2 Pri(us) 1442 1565 1106	Pulse 3 Pri(us) 1224 0 1993	(us) 738740 1372511 1624241 2519936	Interval (us) 0 800000 1600000 2400000	Interval (us 799999 1599999 2399999 3199999
al number	= 13 = 15 = 1 (us) = 8000 Off Time (us) 738740 630029 248440 891221	000 # Pulses 3 2 3 1	Chirp (MHz) 10 11 9 7	PW (us) 90 50 100 50 100	Pulse 1 Pri(us) 1076 1725 1375 1524	Pulse 2 Pri(us) 1442 1565 1106 0	Pulse 3 Pri(us) 1224 0 1993 0	(us) 738740 1372511 1624241 2519936 3213003	Interval (us) 0 800000 1600000 2400000 3200000	Interval (us 799999 1599999 2399999 3199999
al number	= 13 = 15 sl (us)= 8000 Off Time (us) 738740 630029 248440 891221 691543	0000 # Pulses 3 2 3 1 1 3	Chirp (MHz) 10 11 9 7 20	PW (us) 90 50 100 50 100 60	Pulse 1 Pri(us) 1076 1725 1375 1524 1424	Pulse 2 Pri(us) 1442 1565 1106 0 0	Pulse 3 Pri(us) 1224 0 1993 0 0	(us) 738740 1372511 1624241 2519936 3213003 4422361	Interval (us) 0 800000 1600000 2400000 3200000 4000000	Interval (us 799999 1599999 2399999 3199999 3999999
al number	= 13 s = 15 11 (us) = 8000 Off Time (us) = 738740 630029 248440 891221 691543 1207934	#Pulses 3 2 3 1 1 3 3	Chirp (MHz) 10 11 9 7 20 13	PW (us) 90 50 100 50 100 60 70	Pulse 1 Pri(us) 1076 1725 1375 1524 1424 1264 1915	Pulse 2 Pri(us) 1442 1565 1106 0 0 1326	Pulse 3 Pri(us) 1224 0 1993 0 0 1610 1750	(us) 738740 1372511 1624241 2519936 3213003 4422361 5320766	Interval (us) 0 800000 1600000 2400000 3200000 4000000 4800000	Interval (us 799999 1599999 2399999 3199999 3999999 4799999
al number	= 13 s = 15 11 (us) = 8000 Off Time (us) 738740 630029 243440 891221 691543 1207934 894205	# Pulses 3 2 3 1 1 3 3 3	Chirp (MHz) 10 11 9 7 20 13 7	FW (us) 90 50 100 50 100 60 70 70	Pulse 1 Pri(us) 1076 1725 1375 1524 1424 1264 1915	Pulse 2 Pri(us) 1442 1565 1106 0 0 1326 1921	Pulse 3 Pri(us) 1224 0 1993 0 0 1610 1750	(us) 738740 1372511 1624241 2519936 3213003 4422361 5320766 5784864	Interval (us) 0 800000 1600000 2400000 3200000 4000000 4800000 5600000	Interval (us 799999 1599999 2399999 3199999 3999999 4799999 5599999
al number **********  **eform Num o of Bursts st Interva	= 13	#Pulses 3 2 3 1 1 3 3	Chirp (MHz) 10 11 9 7 20 13 7 12	FW (us) 90 50 100 50 100 60 70 70 95	Pulse 1 Pri(us) 1076 1725 1375 1524 1424 1264 1915 1089	Pulse 2 Pri(us) 1442 1565 1106 0 0 1326 1921 1752 1709	Pulse 3 Pri(us) 1224 0 1993 0 0 1610 1750 1001	(ue) 738740 1372511 1624241 2519936 3213003 4422361 5320766 5784864 6453957	Interval (us) 0 800000 1600000 2400000 3200000 4000000 4800000 5600000 6400000	Interval (us 799999 1599999 2399999 3199999 399999 4799999 5599999 7199999
al number ***********  reform Num of Bursts st Interva	= 13	# Pulses 3 2 3 1 1 3 3 2 1 1 1 3 3 1	Chirp (MHz) 10 11 9 7 20 13 7 12 17	PW (us) 90 50 100 50 100 60 70 70 95	Pulse 1 Pri(us) 1076 1725 1375 1524 1424 1264 1915	Pulse 2 Pri(us) 1442 1565 1106 0 0 1326 1921 1752 1709	Pulse 3 Pri(us) 1224 0 1993 0 0 1610 1750	(ue) 738740 1372511 1624241 2519936 3213003 4422361 5320766 5784864 6453957 7320444	Interval (us) 0 800000 1600000 2400000 3200000 4000000 48000000 56000000 64000000 72000000	Interval (us 79999 159999 239999 319999 319999 479999 559999 639999 7199999 7999999
al number ***********  reform Num of Bursts st Interva	= 13 = 15 sl (us)= 8000 Off Time (us) 738740 630029 248440 891221 691543 1207934 894205 4685251 862993 1306029	# Fulses 3 2 3 1 1 3 3 3 2	Chirp (MHz) 10 11 9 7 20 13 7 12	FW (us) 90 50 100 50 100 60 70 70 95	Pulse 1 Pri(us) 1076 1725 1375 1524 1424 1264 1915 1089	Pulse 2 Pri(us) 1442 1565 1106 0 0 1326 1921 1752 1709	Pulse 3 Pri(us) 1224 0 1993 0 0 1610 1750 1001	(ue) 738740 1372511 1624241 2519936 3213003 4422361 5320766 5784864 6453957	Interval (us) 0 800000 1600000 2400000 3200000 4000000 4800000 5600000 6400000	Interval (us 799999 1599999 2399999 3199999 399999 4799999 5599999 7199999
reform Num	= 13	# Pulses 3 2 3 1 1 3 3 2 1 1 1 3 3 1	Chirp (MHz) 10 11 9 7 20 13 7 12 17	PW (us) 90 50 100 50 100 60 70 70 95	Pulse 1 Pri(us) 1076 1725 1375 1524 1424 1264 1915 1089 1785	Pulse 2 Pri(us) 1442 1565 1106 0 0 1326 1921 1752 1709	Pulse 3 Pri(us) 1224 0 1993 0 0 1610 1750 1001 0	(ue) 738740 1372511 1624241 2519936 3213003 4422361 5320766 5784864 6453957 7320444	Interval (us) 0 800000 1600000 2400000 3200000 4000000 48000000 56000000 64000000 72000000	Interval (us 79999 159999 239999 319999 399999 479999 559999 639999 7199999
al number reform Num of Bursts st Interve	= 13	# Pulses 3 2 3 1 1 3 3 2 1 1 2	Chirp (MHz) 10 11 9 7 20 13 7 12 17 15	PW (us) 90 50 100 50 100 60 70 95 50 70	Pulse 1 Pri(us) 1076 1725 1375 1524 1424 1264 1915 1089 1785 1252	Pulse 2 Pri(us) 1442 1565 1106 0 0 1326 1921 1752 1709 0	Pulse 3 Pri(us) 1224 0 1993 0 0 1610 1750 1001 0	(us) 738740 1372511 1624241 2519936 3213003 4422361 5320766 5784864 6453957 7320444 8627725	Interval (us) 0 800000 1500000 2400000 3200000 4000000 4800000 5600000 6400000 7200000 8000000	Interval (us 79999 159999 239999 319999 399999 479999 559999 639999 7199999 8799999
al number ***************  reform Num o of Bursts st Interve	= 13	# Pulses 3 2 3 1 1 3 3 2 1 2 3 3 3 3 3 3 2 1 2 3	Chirp (MHz) 10 11 9 7 20 13 7 12 17 15	PW (us) 90 50 100 60 70 70 95 50 70 85	Pulse 1 Pri(us) 1076 1725 1375 1524 1424 1264 1915 1089 1785 1252 1761	Pulse 2 Pri(us) 1442 1565 1106 0 0 1326 1921 1752 1709 0 1385 1255	Pulse 3 Pri(us) 1224 0 1993 0 0 1610 1750 1001 0 0	(us) 738740 1372511 1624241 2519936 3213003 4422361 5320766 5784864 6453957 7320444 8627725 9227271	Interval (us) 0 800000 1500000 2400000 3200000 4000000 4800000 5600000 6400000 7200000 8000000 8800000	Interval (us 79999 159999 239999 319999 399999 479999 559999 639999 719999 799999 879999





				Type 5	Radar W	avetorm	_14			
eform Num	n = 14 ts = 18									
m of burst rst Interv rst	/al (us)= 6666 Off Time	67 #	Chirp (MHz)	PW .	Pulse 1	Pulse 2	Pulse 3	Start Loc	Start Burst	End Burst
	(us) 215767	Pulses		(us)	Pri(us)	Pri(us)	Pri(us)	(us)	Interval (us)	
	589953	1	20 19	55 95	1565 1419	0	0	215767 807285	0 666667	666666 1333333
	797450	2	10	75	1878	1095	0	1606154	1333334	2000000
	526806	3	10	100	1169	1571	1308	2135933	2000001	2666667
	1050252 504613	2	16	95	1803	1843	o	3190233	2666668	3333334
	730240	2	5	100	1400	1799	0	3698492	3333335	4000001
	405464	2	17	90	1335	1191	0	4431931	4000002	4666668
	1136700	3	9	95	1161	1103 0	1614 0	4839921	4666669 5333336	5333335 6000002
	561350	1 3	10 10	100 60	1304 1579	1244	1769	5980499 6543153	6000003	6666669
	383960	1	5	80	1279	0	0	6931705	6666670	7333336
	536200	1	16	90	1385	0	0	7469184	7333337	8000003
	828950 748435	2	13	50	1279	1277	О	8299519	8000004	8666670
	633677	3	13	95	1301	1125	1539	9050510	8666671	9333337
	631434	3	13	95	1354	1623	1894	9688152	9333338	10000004
	575154	1 3	16 18	60 65	1234 1455	0 1553	0 1154	10324457 10900845	10000005 10666672	10666671 11333338
	836369	3	6	65 55	1455 1816	1553	1154	10900845	11333339	12000005
al number	of pulses in		37 -********************				02	22,410,0		
				Type 5	Radar W	aveform	_15			
c N	- 15			7.						
eform Num of Burst st Interv		0000								
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(u
	318113	3	10	50	1436	1962	1442	318113	0	1199999
	2008621	3	16	50	1432	1876	1301	2331574	1200000	2399999
	676407									
	1057704	3	7	85	1645	1695	1029	3012590	2400000	3599999
	1772591	3	8	95	1248	1459	1829	4074663	3600000	4799999
		2	12	100	1073	1890	0	5851790	4800000	5999999
	500309	1	18	70	1951	0	0	6355062	6000000	7199999
	1189923	3	20	55	1230	1218	1062	7546936	7200000	8399999
	1549837									
	1181412	3	13	80	1589	1513	1623	9100283	8400000	9599999
	675020	1	8	85	1742	0	0	10286420	9600000	10799999
		3	7	65	1655	1579	1390	10963182	10800000	11999999
	of pulses ir	1 waveform = 2 ********	?5 ***********			sokok				
al numben *******										
al numben				Type	Radar W	aveform	16			
*****				Type 5	Radar W	aveform	_16			
eform Num	g = 10	000		Type 5	Radar W	aveform	_16			
eform Num of Burst st Interv	s = 10 val (us)= 1200 Off Time (us)	000 # Pulses	Chirp (MHz)	Type \$	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri (us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
*********  eform Num of Burst st Interv	s = 10 val (us)= 1200 Off Time	# Pulses	(MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	(us)	Interval (us)	Interval (us)
*********  eform Num of Burst st Interv	s = 10 val (us)= 1200 Off Time (us)	# Pulses 1	(MHz) 17	PW (us) 55	Pulse 1 Pri(us) 1073	Pulse 2 Pri(us) O	Pulse 3 Pri(us)	(us) 788128	Interval (us)	Interval (us) 1199999
eform Num of Burst st Interv	s = 10 val (us)= 1200 Off Time (us) 788128	# Pulses 1 2	(MHz) 17 10	PW (us) 55 65	Pulse 1 Pri(us) 1073 1509	Pulse 2 Pri(us) 0 1350	Pulse 3 Pri(us) 0	(us) 788128 2102990	Interval (us) 0 1200000	Interval (us) 1199999 2399999
eform Num of Burst st Interv	ss = 10 val (us)= 1200 Off Time (us) 788128 1313789 565670	# Pulses 1	(MHz) 17	PW (us) 55	Pulse 1 Pri(us) 1073	Pulse 2 Pri(us) O	Pulse 3 Pri(us)	(us) 788128	Interval (us)	Interval (us) 1199999
*********  eform Num of Burst st Interv	ss = 10 val (us)= 1200 Off Time (us) 788128 1313789 565670 1770621	# Pulses 1 2	(MHz) 17 10	PW (us) 55 65	Pulse 1 Pri(us) 1073 1509	Pulse 2 Pri(us) 0 1350	Pulse 3 Pri(us) 0	(us) 788128 2102990	Interval (us) 0 1200000	Interval (us) 1199999 2399999
eform Num of Burst st Interv	ss = 10 val (us)= 1200 Off Time (us) 788128 1313789 565670	#Pulses  1  2  3	(MHz) 17 10 14 13	PW (us) 55 65 85 75	Pulse 1 Pri(us) 1073 1509 1131	Pulse 2 Pri(us) 0 1350 1593 1349	Pulse 3 Pri(us) 0 0 1573	(us) 788128 2102990 2671519 4446437	Interval (us) 0 1200000 2400000 3600000	Interval (us) 1199999 2399999 3599999 4799999
eform Num of Burst st Interv	ss = 10 val (us)= 1200 Off Time (us) 788128 1313789 565670 1770621	#Pulses  1  2  3  2	(MHz) 17 10 14 13	PW (us) 55 65 85 75	Pulse 1 Pri(us) 1073 1509 1131 1398 1965	Pulse 2 Pri(us) 0 1350 1593 1349	Pulse 3 Pri(us) 0 0 1573 0	(us) 788128 2102990 2671519 4446437 5620926	Interval (us) 0 1200000 2400000 3600000 4800000	Interval (us) 1199999 2399999 3599999 4799999 5999999
*********  eform Num of Burst st Interv	s = 10 val (us) = 1200 Off Time (us) 788128 1313789 565670 1770621 1171742 1383531	#Pulses  1  2  3	(MHz) 17 10 14 13	PW (us) 55 65 85 75	Pulse 1 Pri(us) 1073 1509 1131	Pulse 2 Pri(us) 0 1350 1593 1349	Pulse 3 Pri(us) 0 0 1573	(us) 788128 2102990 2671519 4446437	Interval (us) 0 1200000 2400000 3600000	Interval (us) 1199999 2399999 3599999 4799999
eform Num	s = 10 ral (us) = 1200 Off Time (us) 788128 1313789 565670 1770621 1171742 1383531 690231	#Pulses  1  2  3  2	(MHz) 17 10 14 13	PW (us) 55 65 85 75	Pulse 1 Pri(us) 1073 1509 1131 1398 1965	Pulse 2 Pri(us) 0 1350 1593 1349	Pulse 3 Pri(us) 0 0 1573 0	(us) 788128 2102990 2671519 4446437 5620926	Interval (us) 0 1200000 2400000 3600000 4800000	Interval (us) 1199999 2399999 3599999 4799999 5999999
*********  eform Num of Burst st Interv	s = 10 ral (us) = 1200 Off Time (us) 788128 1313789 565670 1770621 1171742 1383531 690231 818490	#Pulses  1 2 3 2 2 2	(MHz) 17 10 14 13 13	PW (us) 55 65 85 75 65	Pulse 1 Pri(us) 1073 1509 1131 1398 1965	Pulse 2 Pri(us) 0 1350 1593 1349 1565	Pulse 3 Pri(us) 0 0 1573 0	(us) 788128 2102990 2671519 4446437 5620926 7007987	Interval (us) 0 1200000 2400000 3600000 4800000 6000000	Interval (us) 1199999 2399999 3599999 4799999 7199999
*********  eform Num of Burst st Interv	s = 10 ral (us) = 1200 Off Time (us) 788128 1313789 565670 1770621 1171742 1383531 690231	# Pulses  1  2  3  2  2  2  3	(MHz)  17  10  14  13  13  16  8  18	PW (us) 55 65 85 75 65 70 55 80	Pulse 1 Pri(us) 1073 1509 1131 1398 1965 1802 1522 1830	Pulse 2 Pri(us) 0 1350 1593 1349 1565 1345 1566	Pulse 3 Pri(us) 0 0 1573 0 0 0	(us) 788128 2102990 2671519 4446437 5620926 7007987 7701365 8522943	Interval (us) 0 1200000 2400000 3600000 4800000 6000000 7200000 8400000	Interval (us) 1199999 2399999 3599999 4799999 5999999 7199999 8399999 9599999
eform Num of Burst st Interv	s = 10 ral (us) = 1200 Off Time (us) 788128 1313789 565670 1770621 1171742 1383531 690231 818490	# Pulses 1 2 3 2 2 2	(MHz) 17 10 14 13 13 16	PW (us) 55 65 75 65 70 55	Pulse 1 Pri(us) 1073 1509 1131 1398 1965 1802	Pulse 2 Pri(us) 0 1350 1593 1349 1565 1345	Pulse 3 Pri(us) 0 0 1573 0 0	(us) 788128 2102990 2671519 4446437 5620926 7007987 7701365	Interval (us) 0 1200000 2400000 3600000 4800000 6000000 7200000	Interval (us) 1199999 2399999 3599999 4799999 7199999 8399999

FCC ID: 2ABLK-8X4G-1 Page Number: 49 of 114





				Type 5	Radar W	aveform	_17			
eform Nu of Burs	um = 17 sts = 17 rval (us)= 7058	207								
st Inter 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(u
	(us) 25986	ruises 3	16	85	1634	1086	1719	25986	0	705881
	1196447	3	15	70	1187	1156	1882	1226872	705882	1411763
	382738	1	20	95	1756	0	0	1613835	1411764	2117645
	747504	3	15	90	1239	1769	1487	2363095	2117646	2823527
	845500	3	9	85	1700	1275	1120	3213090	2823528	3529409
	994780	1	8	80	1580	0	0	4211965	3529410	4235291
	116382	1	8	95	1735	0	0	4329927	4235292	4941173
	854001	2	19	75	1480	1348	0		4941174	5647055
	950496	2	19	75	1507	1144	0	5185663 6138987	5647056	6352937
	599619	1	13	65	1547	0	0	6741257	6352938	7058819
	412273	1	18	50	1015	0	0	7155077	7058820	7764701
	776523	3								
	885478	2	8	60	1373	1567 1907	1371 0	7932615	7764702 8470584	8470583 9176465
	828540	2	17	50 50	1055 1732	1907	0	8822404 9653906	8470584 9176466	9176465 9882347
	615092						0			
	598019	2	16	85	1009	1926		10271905	9882348	10588229
	774205	3	12	50	1570	1418	1431	10872859	10588230	11294111
l numbe	er of pulses in	2 n waveform = 3	20 5 ****************	50 *******	1874	1292	0	11651483	11294112	11999993
				Type 5	Radar W	aveform	_18			
	um = 18 sts = 8									
	rval (us)= 1500									
t	Off Time (us) 1298536	# 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
		2	7	85	1028	1053	0	1298536	0	1499999
	525067	3	14	90	1761	1076	1016	1825684	1500000	2999999
	1838578	5	14	50	1101	1010	1010	1020004	1300000	4000000
		2	9	85	1050	1080	0	3668115	3000000	4499999
	1515432		00	05	1.000	1000	^		4500000	E000000
	2156561	2	20	95	1680	1029	0	5185677	4500000	5999999
	2130301	3	15	55	1108	1083	1653	7344947	6000000	7499999
	1097322									
		3	7	70	1749	1379	1431	8446113	7500000	8999999
	1000010			90	1528	1062	0	10316418	9000000	10499999
	1865746	2	16	<i>9</i> 0	1320	1002	V	10010410	3000000	10400000
		2	16					11050007	10500000	11999999
	1337919	1	14	50	1448	0	0	11656927	1000000	11000000
	1337919 er of pulses ir	1 n waveform = 1	.8		1448		0	11020371	1000000	11333333
	1337919 er of pulses ir	1 n waveform = 1	.8				0	110009371		
	1337919 er of pulses ir	1 n waveform = 1	.8	******		**		11000421	1000000	11333333
******	1337919 er of pulses ir	1 n waveform = 1	.8	******	*******	**		11656921	1300000	1133333
form Nu of Burs t Inter	1337919 er of pulses ir ************************************	1 n waveform = 1 ***********************************	14 8 ********	Type 5	Radar W	** /aveform	_19			
form Nu	1337919 er of pulses ir exercises in a second of the secon	1 n waveform = 1 ***********************************	.8	******	*******	**		Start Loc	Start Burst Interval(us)	End Burst
form Nu of Burs t Inter	1337919 er of pulses ir ************************************	1 n waveform = 1 ***********************************	14 8 ********	Type 5	5 Radar W	** /aveform	_19	Start Loc	Start Burst	End Burst
form Nu of Burs t Inter	1337919 er of pulses in ************************************	1 n waveform = 1 ***********************************	14 8 ***********************************	Type 5	Radar W	aveform	_19	Start Loc	Start Burst Interval (us)	End Burst Interval (us
form Nu of Burs t Inter	1337919 er of pulses ir ************************************	1 n waveform = 1 ***********************************	14 8 ************************************	Type 5	Pulse 1 Pri (us) 1025	Pulse 2 Pri(us)	Pulse 3 Pri (us)	Start Loc (us) 212917	Start Burst Interval (us)	End Burst Interval(us 749999
form Nu of Burs t Inter	1337919 er of pulses ir ***************  am = 19 ets = 16 (us) = 7500 Off Time (us) = 122917 654280 913532 724540	1 n waveform = 1 h waveform = 2 1	14 8 ***********************************	Type 5	Pulse 1 Pri (us) 1025 1149	Pulse 2 Pri(us) 1207	Pulse 3 Pri(us) 0 0	Start Loc (us) 212917 369429	Start Burst Interval(us) 0 750000	End Burst Interval (us 74999 1499999
form Nu of Burs t Inter	1337919 er of pulses ir ************************************	1 waveform = 1 ***********************************	14 8 ************************************	Type 5    FW (us)   65   75   100	Pulse 1 Pri (us) 1025 1149 1247	Pulse 2 Pri(us) 1207 0	Pulse 3 Pri(us) 0 0	Start Loc (us) 212917 869429 1784110	Start Burst Interval(us) 0 750000 1500000	End Burst Interval(us 749999 1499999 2249999
Form Nu of Burs	1337919  am = 19  sts = 16  Coff Time (us) 212917 654280 913532 724540 622032 697265	1 n waveform = 1 ***********************************	Chirp (MHz)  13  14  7  6	Type 5  FW (us) 65 75 100 65	Pulse 1 Pri (us) 1025 1149 1247 1878	Pulse 2 Pri(us) 1207 0 1275 1404	Pulse 3 Pri(us) 0 0 1942 1554	Start Loc (us) 212917 869429 1784110 2513114	Start Burst Interval (us) 0 750000 1500000 2250000	End Burst Interval (us 74999 149999 2249999 2999999
Form Nu of Burs t Inter	1337919 er of pulses ir ************************************	1 n waveform = 1 ***********************************	Chirp (Mitz) 13 14 7 6 10 9	Type 5  Pw (us) 65 75 100 65 95 50	Pulse 1 Pri (us) 1025 1149 1247 1878 1214	Pulse 2 Pri(us) 1207 0 1275 1404 1347	Pulse 3 Pri (us) 0 0 0 1942 1554 1178 0	Start Loc (us) 212917 869429 1784110 2513114 313982 3840986	Start Burst Interval (us) 0 750000 150000 2250000 3000000 3750000	End Burst Interval(us 74999 149999 2249999 2999999 3749999 4499999
Form Nu of Burs t Inter	1337919  am = 19  sts = 16  Coff Time (us) 212917 654280 913532 724540 622032 697265	1 n waveform = 1 ***********************************	Chirp (Miz) 13 14 7 6 10 9 16	Type 5  P(0) ((u.s) 65 75 100 65 95 60 55	Pulse 1 Pri (us) 1025 1149 1247 1878 1214 1135 1673	Pulse 2 Pri (us) 1207 0 1275 1404 1347 0	Pulse 3 Pri(us) 0 0 1942 1554 1178 0	Start Loc (us) 212917 869429 1784110 2513114 3139982 3840986 4892062	Start Burst Interval(us) 0 750000 1500000 2250000 3000000 3750000 4500000	End Burst Interval (us 74999 149999 224999 299999 3749999 449999 5249999
Form Nu of Burs	1337919 er of pulses ir ************************************	1 n waveform = 1 ***********************************	Chirp (MHz)  13  14  7  6  10  9  16  10	FW (us) 65 75 100 65 95 50 65 65	Pulse 1 Pri (us) 1025 1149 1247 1878 1214 1135 1673 1262	Pulse 2 Pri(us) 1207 0 1275 1404 1347 0 1434 1316	Pulse 3 Pri(us) 0 0 1942 1554 1178 0 1283 1242	Start Loc (um) 212917 869429 1784110 2513114 3139982 3840986 4892062 5355809	Start Burst Interval (us) 0 750000 1500000 2250000 3050000 4500000 5250000	End Burst Interval (us 74999) 149999 2249999 3749999 4499999 5249999 59999999
Form Nu of Burs t Inter	1337919 er of pulses ir ************************************	1 n waveform = 1 ***********************************	Chirp (MHz)  13 14 7 6 10 9 16 10 8	Type 5  FW (UED) 65 75 100 65 95 50 55 66	Pulse 1 Pri (us) 1025 1149 1247 1878 1214 1135 1673 1262 1770	Pulse 2 Pri(us) 1207 0 1275 1404 1347 0 1434 1316 1490	Pulse 3 Pri(us) 0 0 1942 1554 1178 0 1283 1242	Start Loc (um) 212917 869429 1784110 2513114 3139982 3840986 4892062 5355809 6331776	Start Burst Interval (us) 0 750000 1500000 2250000 3000000 37500000 4500000 5250000 60000000	End Burst Interval (us 74999 149999 224999 299999 3749999 449999 524999 599999 6749999
form Nu of Burs t Inter	1337919  er of pulses ir  ****************  am = 19  sts = 16  cus) 7500  Off Time (us) 212917  654280  913532  724540  622032  697265  1049941  459357  972147	1 n waveform = 1 ***********************************	Chirp (MHz) 13 14 7 6 10 9 16 10 8 11	Type 5  FW (UIII) 65 75 100 65 95 50 65 65 60 70	Pulse 1 Pri (us) 1025 1149 1247 1878 1214 1135 1673 1262 1770 1328	Pulse 2 Pri(us) 1207 0 1275 1404 1347 0 1434 1316 1490 1210	Pulse 3 Pri(us) 0 0 1942 1554 1178 0 1283 1242 0	Start Loc (us) 212917 869429 1784110 2513114 3139982 3840986 4892062 5355809 6331776 7230863	Start Burst Interval (us) 0 750000 1500000 2250000 3000000 3750000 4500000 6750000 6750000	End Burst Interval (us 749999 1499999 2249999 29999999 4499999 5299999 67499999 7499999
Form Nu of Burs t Inter	1337919  am = 19  sts = 16  cus)  212917  654280  913532  724540  622032  697265  1049941  459357  972147  895827	1 n waveform = 1 ***********************************	Chirp (MHz) 13 14 7 6 10 9 16 10 8 11 14	Type 5    Fw (us)     65     75     100     65     95     50     55     60     70     55	Pulse 1 Pri (us) 1025 1149 1247 1878 1214 1135 1673 1262 1770 1328 1196	Pulse 2 Pri(us) 1207 0 1275 1404 1347 0 1434 1316 1490 1210	Pulse 3 Pri(us) 0 0 0 1942 1554 1178 0 1283 1242 0 1974 0	Start Loc (us) 212917 869429 1784110 2513114 313982 3840986 4892062 5355809 6331776 7230863 7822868	Start Burst Interval (us) 0 750000 150000 2250000 300000 450000 600000 6750000 7500000	End Burst Interval (us 74999 149999 2249999 299999 3749999 449999 5249999 5749999 7499999 8249999
Form Nu of Burs t Inter	1337919  am = 19 sts = 16 rowal (us)= 7500 Off Time (us)= 7502 212917 654280 913532 724540 622032 697265 1049941 459357 972147 895827 587493	1 n waveform = 1 ***********************************	Chirp (Miz)  13  14  7  6  10  9  16  10  8  11  14  11	Pupe 5  Pup (use) 65 75 100 65 95 60 70 65 90	Pulse 1 Pri (us) 1025 1149 1247 1878 1214 1135 1673 1262 1770 1328 1196 1859	Pulse 2 Pri (us) 1207 0 1275 1404 1347 0 1434 1316 1490 1210 0	Pulse 3 Pri(us) 0 0 1942 1554 1178 0 1283 1242 0 1974 0	Start Loc (us) 212917 869429 1784110 2513114 3139982 3840986 4892062 5355809 6331776 7230863 7822868 8556391	Start Burst Interval (us) 0 750000 1500000 2250000 3000000 3750000 4500000 6750000 7500000 8250000	End Burst Interval (us 74999 149999 224999 239999 3749999 449999 524999 524999 749999 8249999 8249999 8999999
form Nu of Burs t Inter	1337919 er of pulses ir ************************************	1 n waveform = 1 ***********************************	Chirp (MHz)  13  14  7  6  10  9  16  10  8  11  14  11  6	PW (us) 65 75 100 65 50 65 60 70 55 90 70	Pulse 1 Pri (um) Pri (um) 1025 1149 1247 1878 1214 1135 1673 1262 1770 1328 1196 1859 1660	Pulse 2 Pri(us) 1207 0 1275 1404 1347 0 1434 1316 1490 1210 0 1801 1729	Pulse 3 Pri(us) 0 0 1942 1554 1178 0 1283 1242 0 1974 0 0	Start Loc (um) 212917 869429 1784110 2513114 3139982 3840986 4892062 5355809 6331776 7230863 7822268 8556391 9377190	Start Burst Interval (us) 0 750000 1500000 2250000 3050000 4500000 5250000 6000000 75000000 8250000 9000000	End Burst Interval (us 74999) 149999 224999 3749999 5249999 5249999 5999999 7499999 8249999 8249999 9749999
form Nu of Burs t Inter	1337919 er of pulses ir ************************************	1 n waveform = 1 ***********************************	Chirp (MHz)  13  14  7  6  10  9  16  10  8  11  14  11  6  11	Type 5  FW (US) 65 75 100 65 95 50 65 65 60 70 65 90 70 95	Pulse 1 Pri (us) 1025 1149 1247 1878 1214 1135 1673 1262 1770 1328 1196 1859 1660 1963	Pulse 2 Pri(us) 1207 0 1275 1404 1347 0 1434 1316 1490 1210 0 1801 1729 1031	Pulse 3 Pri(us) 0 0 1942 1554 1178 0 1283 1242 0 1974 0 0	Start Loc (us) 212917 869429 1784110 2513114 3139982 3840986 4892062 5355809 6331776 7230863 7822868 8556391 9377190 10174478	Start Burst Interval(us) 0 750000 1500000 2250000 3000000 3750000 4500000 6750000 7500000 8250000 9000000 9750000	End Burst Interval (us 749999 1499999 2249999 3749999 4499999 5249999 6749999 7499999 8249999 8249999 9749999 97499999 104999999
form Nu of Burs t Inter	1337919  am = 19 sts = 16 cus) = 7500  Off Time (us) = 724540 622032 697265 1049941 459357 972147 895827 587493 732327 817139 793899	1 n waveform = 1 ***********************************	Chirp (MHz)  13  14  7  6  10  9  16  10  8  11  14  11  6	PW (us) 65 75 100 65 50 65 60 70 55 90 70	Pulse 1 Pri (um) Pri (um) 1025 1149 1247 1878 1214 1135 1673 1262 1770 1328 1196 1859 1660	Pulse 2 Pri(us) 1207 0 1275 1404 1347 0 1434 1316 1490 1210 0 1801 1729	Pulse 3 Pri(us) 0 0 1942 1554 1178 0 1283 1242 0 1974 0 0	Start Loc (um) 212917 869429 1784110 2513114 3139982 3840986 4892062 5355809 6331776 7230863 7822268 8556391 9377190	Start Burst Interval (us) 0 750000 1500000 2250000 3050000 4500000 5250000 6000000 75000000 8250000 9000000	End Burst Interval (us 74999) 149999 224999 3749999 5249999 5249999 5999999 7499999 8249999 8249999 9749999

FCC ID: 2ABLK-8X4G-1 Page Number: 50 of 114





				Type 5	Radar W	aveform	_20			
n of Bur	Num = 20 rsts = 10 erval (us)= 1200	000								
rst	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)		and Burst interval(us)
	578983	2	8	90	1512	1653	0	578983	0	1199999
	1106659	1	17	75	1607	0	0	1688807	1200000	2399999
	1044390	2	10	65	1498	1551	0	2734804	2400000	3599999
	1110364	1	12	100	1430	0	0	3848217	3600000	4799999
	1227053	3	9	70	1232	1006	1255	5076700	4800000	5999999
	1133093	3	11	85	1175	1591	1563	6213286	6000000	7199999
	1323538	1	10	65	1009	0	0	7541153	7200000	8399999
	911755	2					0			
	1548870		18	55	1428	1758		8453917	8400000	9599999
	1639109	2	12	60	1113	1827	0	10005973	9600000	10799999
) tal numb	ber of pulses in	2 waveform = 1	16 9	50	1803	1042	0	11648022	10800000	11999999
						*				
				Type 5	Radar W	aveform	21			
	Num = 21			-710-5						
st Inte	rsts = 12 erval (us)= 1000 Off Time	0000 #	Chim	PW	Pulse 1	Pulse ?	Pulso 3	Stont Loo	Stont Bungt	Fod Romat
rst	(us) 156214	# 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(u
	1764869	3	9	100	1613	1774	1595	156214	0	999999
	806346	2	11	70	1995	1449	0	1926065	1000000	1999999
	1042645	2	20	90	1628	1176	0	2735855	2000000	2999999
	536211	2	16	95	1149	1531	0	3781304	3000000	3999999
	747852	2	16	100	1139	1769	0	4320195	4000000	4999999
	1789592	2	16	65	1881	1345	0	5070955	5000000	5999999
	141314	1	16	75	1543	0	0	6863773	6000000	6999999
	1376401	3	7	95	1582	1669	1132	7006630	7000000	7999999
	954864	1	16	90	1925	0	0	8387414	8000000	8999999
)	825795	1	7	55	1108	0	0	9344203	9000000	9999999
	1018425	1	20	95	1807	0	0	10171106	10000000	10999999
	ber of pulses in			95 ******	1060 *****	1670 ⊭**	0	11191338	11000000	11999999
				Type 5	Radar W	aveform	22			
	Num = 22			.,,,,,	rtada: 77	410101111				
rst Int	rsts = 10 erval (us)= 120	0000								
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 Burs Interval(u	
	134490	1	12	90	1378	0	0	134490	0	1199999
	2110500	2	9	100	1994	1448	0	2246368	1200000	2399999
	1225768	1	17	95	1272	0	0	3475578	2400000	3599999
	901970	1	20	85	1866	0	0	4378820	3600000	4799999
	1605420	3	7	65	1874	1570	1219	5986106	4800000	5999999
	998390									
	666051	3	19	95	1100	1419	1901	6989159	6000000	7199999
	1585525	3	12	50	1914	1129	1377	7659630	7200000	8399999
		3	7	70	1228	1951	1936	9249575	8400000	9599999
	689290									
	689290 1212199	2	18	70	1562	1818	0	9943980	9600000	10799999

FCC ID: 2ABLK-8X4G-1 Page Number: 51 of 114





				Type 5	Radar W	aveform	_23			
eform No of Bur	sts = 9									
st Inter	rval (us)= 133	3333								
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
	210251									
	1795399	3	16	50	1912	1515	1588	210251	0	1333332
	1323489	3	20	80	1376	1406	1369	2010665	1333333	2666665
	1898280	2	9	90	1362	1832	0	3338305	2666666	3999998
	1153274	1	9	50	1043	0	0	5239779	3999999	5333331
		1	9	60	1466	0	0	6394096	5333332	6666664
	727162	3	9	55	1227	1516	1618	7122724	6666665	7999997
	1325642	1	15	85	1973	0	0	8452727	7999998	9333330
	1358839	3	13	100	1613	1216	1689	9813539	9333331	10666663
	939332		9			0				
	er of pulses i		18	95	1173	•	0	10757389	10666664	11999996
****	****				****	**				
				Type 5	Radar W	aveform	24			
				- 716						
form M	um = 24									
of Burs t Inter	sts = 10 rval (us)= 1200	0000								
t	Off Time	#	Chirp	PW	Pulse 1	Pulse 2	Pulse 3	Start Loc	Start Burst	End Burst
	(us) 556966	Pulses	(MHz)	(us)	Pri(us)	Pri(us)	Pri(us)	(us)	Interval (us)	Interval (us
	1835519	1	13	95	1036	0	0	556966	0	1199999
	58257	3	12	75	1542	1388	1981	2393521	1200000	2399999
	1506288	3	13	65	1026	1054	1192	2456689	2400000	3599999
		3	16	100	1916	1335	1322	3966249	3600000	4799999
	888936	2	19	60	1712	1862	0	4859758	4800000	5999999
	1655890	1	8	55	1722	0	0	6519222	6000000	7199999
	1396655	3	14	65	1239	1128	1270	7917599	7200000	8399999
	936929	3	11	100	1225	1075	1271	8858165	8400000	9599999
	1322843	1	5	75	1511	0	0	10184579	9600000	10799999
	1389230									
l numbe	er of pulses in	1 n waveform = 2	14 21	60	1691	0	0	11575320	10800000	11999999
******	kojeojeojeojeojeojeojeojeojeojeojeo	kolentokolentolentolentolentolen	kojeokojeokojeokojeokojeokojeok	*****************	*****	**				
				Tyne 5	Radar W	aveform	25			
				Type	itadai VV	avelonin				
orm Nur	ts = 16									
Interv	val (us)= 7500	00	Chi	PW	P <sub>11</sub> 1 1	Pulat 2	Pul c- 2	Stant I	Start Burst	End Boom
	Off Time (us) 269171	# Pulses	Chirp (MHz)	(us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Interval (us)	End Burst Interval(us
	573955	3	10	80	1888	1720	1131	269171	0	749999
	eeoee a	3	8 19	100 80	1166 1522	1676 0	1455 0	847865 1521726	750000 1500000	1499999 2249999
	669564		14	75	1476	1711	1205	2296604	2250000	2999999
	773356	3		60	1227	1585	0	3011974	3000000	3749999
	773356 710978	3 2	17		1050	1526	1629	3840715	3750000	4499999
	773356 710978 825929	2	15	65	1073			5133876	4500000	5249999
	773356 710978	2 3 3	15 14	50	1396	1761	1875			
	773356 710978 825929 1288933	2 3 3 1	15 14 5	50 95	1396 1852	0	0	5445096	5250000	5999999
	773356 710978 825929 1288933 306188 928508 766342	2 3 3	15 14 5 15	50	1396 1852 1755					
	773356 710978 825929 1288933 306188 928508 766342 394223	2 3 3 1 2	15 14 5	50 95 70	1396 1852	0 1242	0	5445096 6375456	5250000 6000000	5999999 6749999
	773356 710978 825929 1288933 306188 928508 766342 394223 922594	2 3 3 1 2	15 14 5 15	50 95 70 75	1396 1852 1755 1528	0 1242 1476	0 0 0	5445096 6375456 7144795	5250000 6000000 6750000	5999999 6749999 7499999
	773356 710978 825929 1288933 306188 928508 766342 394223	2 3 3 1 2 2 1 1	15 14 5 15 11 17 17	50 95 70 75 65 50	1396 1852 1755 1528 1109 1286 1627	0 1242 1476 0 0	0 0 0 0 0	5445096 6375456 7144795 7542022 8465725 9408808	5250000 6000000 6750000 7500000 8250000	5999999 6749999 7499999 8249999 8999999
	773356 710978 825929 1288933 306188 928508 766342 394223 922594 941797	2 3 3 1 2 2 1 1 2 3	15 14 5 15 11 17 17 20 6	50 95 70 75 65 50 55	1396 1852 1755 1528 1109 1286 1627	0 1242 1476 0 0 1824 1294	0 0 0 0 0 0 0	5445096 6375456 7144795 7542022 8465725 9408808 9977765	5250000 6000000 6750000 7500000 8250000 9000000	5999999 6749999 7499999 8249999 8999999 9749999
	773356 710978 825929 1288933 306188 928508 766342 394223 922594 941797 566506	2 3 3 1 2 2 1 1	15 14 5 15 11 17 17	50 95 70 75 65 50	1396 1852 1755 1528 1109 1286 1627	0 1242 1476 0 0	0 0 0 0 0	5445096 6375456 7144795 7542022 8465725 9408808	5250000 6000000 6750000 7500000 8250000	5999999 6749999 7499999 8249999 8999999

FCC ID: 2ABLK-8X4G-1 Page Number: 52 of 114





				Type 5	Radar W	aveform	_26			
eform Num	= 26									
n of Burst	s = 11 al (us)= 1090	909								
rst	Off Time (us) 37120	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us	
	1692146	3	17	75	1608	1292	1400	37120	0	1090908
	477231	3	15	60	1677	1614	1169	1733566	1090909	2181817
	1289412	2	20	50	1725	1326	0	2215257	2181818	3272726
		1	11	90	1586	0	0	3507720	3272727	4363635
	878751	1	12	60	1192	0	0	4388057	4363636	5454544
	1629908	3	18	90	1943	1933	1421	6019157	5454545	6545453
	827353	3	6	95	1884	1795	1595	6851807	6545454	7636362
	929175	3	8	55	1412	1643	1817	7786256	7636363	8727271
	1373716									
	1202618	1	8	65	1049	0	0	9164844	8727272	9818180
	562753	3	8	70	1485	1241	1314	10368511	9818181	10909089
	of pulses in	2 n waveform = :		100	1007	1558	0	10935304	10909090	11999998
	***************************************		*******			*oko*				
				Type 5	Radar W	aveform	_27			
form Num	₃ = 15									
t Interv	al (us)= 8000 Off Time	00	Chirm	PW	Pulse 1	Pulse 2	Pulse 3	Start Loc	Start Burst	End Burst
	(us) 390523	Pulses	Chirp (MHz)	(us)	Pri(us)	Pri(us)	Pri(us)	(us)	Interval (us)	Interval (us)
	1034167	2	11	80	1588	1537	0	390523	0	799999
	612126	1	16	90	1008	0	0	1427815	800000	1599999
	1143657	2	8 10	100 55	1684 1053	1560 1245	0	2040949 3187850	1600000	2399999 3199999
	675780	1	15	60	1982	0	0	3865928	2400000 3200000	3999999
	814906	3	6	100	1886	1106	1145	4682816	4000000	4799999
	277699	2	5	95	1311	1594	0	4964652	4800000	5599999
	1045292	3	9	75	1065	1630	1073	6012849	5600000	6399999
	1172818	1	9	60	1898	0	0	7189435	6400000	7199999
	189175	3	6	80	1156	1206	1549	7380508	7200000	7999999
	1184310	2	10	80	1667	1507	0	8568729	8000000	8799999
	650111	3	10	75	1578	1612	1255	9222014	8800000	9599999
	999949	3	16	100	1653	1354	1442	10226408	9600000	10399999
	804791 297131	2	13	70	1811	1652	0	11035648	10400000	11199999
l number	of pulses in	1 waveform = 3	8	80	1628 *******	0	0	11336242	11200000	11999999
*******	t od collected c	acotralizar atralizar de atralizar atraliz		coko ako ako ako ako ako ako ako ako ako	de de calende de calende de calende de calende de cal	cat:				
				Type 5	Radar W	aveform	_28			
form Num of Burst t Interv	= 28 s = 18 al (us)= 6666 Off Time (us)	667								
T.	Off Time (us) 1008	# 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
	978034	1	20	50	1761	0	0	1008	0	666666
	368902	3	9	60	1853	1220	1946	980803	666667	1333333
	1181563	1	16 13	100 85	1245 1692	0	0	1354724 2537532	1333334 2000001	2000000 2666667
	327233	2	19	60	1284	1212	0	2866457	266668	3333334
	1056527	3	11	100	1970	1745	1307	3925480	3333335	4000001
	140932 1092971	2	5	50	1006	1359	o	4071434	4000002	4666668
	221492	1	8	90	1062	0	o	5166770	4666669	5333335
	1228097	1	18	75	1595	0	0	5389324	5333336	6000002
	78261	3	15	90 55	1103	1491	1441 0	6619016 6701312	6000003	6666669 7333336
	1167041	2	13 9	55 55	1923 1182	1839 1475	1267	6701312 7872115	6666670 7333337	8000003
	418865	2	11	55	1447	1350	0	8294904	8000004	8666670
	694075	2	14	100	1846	1890	0	8991776	8666671	9333337
	582884 544951	3	14	60	1296	1195	1479	9578396	9333338	10000004
		2	10	95	1027	1157	o	10127317	10000005	10666671
	761210									
	761210 761868	1	8 20	85 50	1476 1316	0 1603	0	10890711 11654055	10666672 11333339	11333338 12000005

FCC ID: 2ABLK-8X4G-1 Page Number: 53 of 114





				.ypo c	Radar W	avoioiiii				
of Bw	Num = 29 rsts = 16 erval (us)= 7500	000								
st	Off Time (us) 138059	# 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
	672769	2	14	100	1377	1822	0	138059	0	749999
	766230	3	9	85	1633	1403	1768	814027	750000	1499999
	1309822	2	15	95	1440	1019	0	1585061	1500000	2249999
	120902	2	15	100	1007	1021	0	2897342	2250000	2999999
	1207179	2	16	65	1927	1430	0	3020272	3000000	3749999
	833939	1	16	100	1873	0	0	4230808	3750000	4499999
	352420	1	5	55	1338	0	0	5066620	4500000	5249999
	855586	1	18	55	1554	0	0	5420378	5250000	5999999
	1050105	2	13	50	1091	1030	0	6277518	6000000	6749999
	517914	1	9	100	1467	0	0	7329744	6750000	7499999
	911047	3	9	50	1660	1902	1592	7849125	7500000	8249999
	699327	2	12	80	1606	1560	0	8765326	8250000	8999999
	467279	1	18	80	1690	0	0	9467819	9000000	9749999
	1271031	3	7	80	1498	1500	1083	9936788	9750000	10499999
		3	12	70	1586	1187	1238	11211900	10500000	11249999
al numi	373853 ber of pulses in	3 n waveform = 3 ***********************************	17 32 жинининининин				_30	11589764	11250000	11999999
ekoeko ekoeko ekoeko	ber of pulses in	waveform = 3	32	olicola olicola olicola olicola olicola olicola oli		so <del>k</del> soks		11589764	11250000	11999999
eform I	ber of pulses in	n waveform = 3	32	olicola olicola olicola olicola olicola olicola oli	le side side side side side side side sid	so <del>k</del> soks		11589764	11250000	11999999
eform I of Bur	Num = 30 rsts = 10 erval (us)= 1200 Off Time (us)	n waveform = 3	32	olicola olicola olicola olicola olicola olicola oli	le side side side side side side side sid	so <del>k</del> soks		11589764  Start Loc (us)	11250000 Start Burst Interval(us)	End Burst
eform I of Bur	Num = 30 rsts = 10 erval (us)= 1200 Off Time (us) 703122	1000 #	Chirp	Type 5	5 Radar W	/aveform	_30	Start Loc	Start Burst	End Burst
eform I of Bur	Num = 30 rsts = 10 erval (us)= 1200 Off Time (us)	waveform = 3	Chirp	Type 5	Pulse 1 Pri (us)	/aveform	_30 Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval (us)
eform I of Bur	Num = 30 rsts = 10 erval (us)= 1200 Off Time (us) 703122	n weveform = 3 ***********************************	Chirp (MHz)	Type 5	Pulse 1 Pri (us)	Pulse 2 Pri(us)	_30  Pulse 3 Pri(us) 1654	Start Loc (us) 703122	Start Burst Interval(us)	End Burst Interval(us) 1199999
eform I of Bur	Num = 30 rsts = 10 erval (us) = 1200 Off Time (us) 703122 1460310	10000 # Pulses 3 2 3	Chirp (MHz) 12 13 14	Type 5  PW (us) 90 75 85	Pulse 1 Pri (us) 1894 1809 1987	Pulse 2 Pri(us) 1457 1820 1273	_30  Pulse 3 Pri (us)  1654  0  1866	Start Loc (us) 703122 2168437 2593463	Start Burst Interval(us) 0 1200000 2400000	End Burst Interval(us) 1199999 2399999 3599999
eform I of Bur	Num = 30 rsts = 10 erval (us) = 1200 Off Time (us) 703122 1460310 421397	10000 # Pulses 3 2 3 3 3	Chirp (MHz) 12 13 14	Type 5  PW (us) 90 75 85 85	Pulse 1 Pri(us) 1894 1809 1987	Pulse 2 Pri(us) 1457 1820 1273 1581	_30  Pulse 3 Pri (us) 1654 0 1866 1311	Start Loc (us) 703122 2168437 2593463 4537212	Start Burst Interval(us) 0 1200000 2400000 3600000	End Burst Interval(us) 1199999 2399999 3599999 4799999
eform I of Bur	Num = 30 rsts = 10 erval (us)= 1200 Off Time (us) 703122 1460310 421397 1938623	0000 # Pulses 3 2 3 3 3 3	Chirp (HHz) 12 13 14 13 6	Type 5  PW (us) 90 75 85 85 60	Pulse 1 Pri(us) 1894 1809 1987 1989 1354	Pulse 2 Pri (us) 1457 1820 1273 1581 1796	Pulse 3 Pri (us) 1654 0 1866 1311 1297	Start Loc (us) 703122 2168437 2593463 4537212 5100415	Start Burst Interval (us) 0 1200000 2400000 3600000 4800000	End Burst Interval (us) 1199999 2399999 35999999 4799999
eform I of Bur	Num = 30 rsts = 10 erval (us)= 1200 Off Time (us) 703122 1460310 421397 1938623 558322	0000 # Pulses 3 2 3 3 3 1	Chirp (MHz)  12  13  14  13  6  10	PW (us) 90 75 85 85 60 75	Pulse 1 Pri (us) 1894 1809 1987 1989 1354 1969	Pulse 2 Pri (us) 1457 1820 1273 1581 1796	Pulse 3 Pri (us) 1654 0 1866 1311 1297	Start Loc (us) 703122 2168437 2593463 4537212 5100415 6025561	Start Burst Interval (us) 0 1200000 2400000 3600000 4800000 60000000	End Burst Interval (us) 1199999 2399999 3599999 4799999 5999999 7199999
eform I of Bur	Mum = 30 rsts = 10 erval (us) = 1200 Off Time (us) 703122 1460310 421397 1938623 558322 920699 1910228	0000 # Pulses 3 2 3 3 3 3	Chirp (HHz) 12 13 14 13 6	Type 5  PW (us) 90 75 85 85 60	Pulse 1 Pri(us) 1894 1809 1987 1989 1354	Pulse 2 Pri (us) 1457 1820 1273 1581 1796	Pulse 3 Pri (us) 1654 0 1866 1311 1297	Start Loc (us) 703122 2168437 2593463 4537212 5100415	Start Burst Interval (us) 0 1200000 2400000 3600000 4800000	End Burst Interval (us) 1199999 2399999 35999999 47999999
eform I of Bur	Num = 30 rsts = 10 erval (us) = 1200 Off Time (us) 703122 1460310 421397 1938623 558322 920699 1910228 621281	0000 # Pulses 3 2 3 3 3 1	Chirp (MHz)  12  13  14  13  6  10	PW (us) 90 75 85 85 60 75	Pulse 1 Pri (us) 1894 1809 1987 1989 1354 1969	Pulse 2 Pri (us) 1457 1820 1273 1581 1796	Pulse 3 Pri (us) 1654 0 1866 1311 1297	Start Loc (us) 703122 2168437 2593463 4537212 5100415 6025561	Start Burst Interval (us) 0 1200000 2400000 3600000 4800000 60000000	End Burst Interval (us) 1199999 2399999 3599999 4799999 71999999
eform I	Mum = 30 rsts = 10 erval (us) = 1200 Off Time (us) 703122 1460310 421397 1938623 558322 920699 1910228	0000 # Pulses 3 2 3 3 3 1 1 1	Chirp (MHz) 12 13 14 13 6 10	PW (us) 90 75 85 85 60 75 65	Pulse 1 Pri(us) 1894 1809 1987 1989 1354 1969 1010	Pulse 2 Pri (us) 1457 1820 1273 1581 1796 0	Pulse 3 Pri (us) 1654 0 1866 1311 1297 0 0	Start Loc (us) 703122 2168437 2593463 4537212 5100415 6025561 7937758	Start Burst Interval (us) 0 1200000 2400000 3600000 4800000 60000000 72000000	End Burst Interval (us) 1199999 2399999 3599999 4799999 59999999 7199999 83999999

Page Number: 54 of 114 FCC ID: 2ABLK-8X4G-1 IC: 4009A-8X4G1





Type 6 Radar Statistical Performance

Trail #	Test Freq.	1=Detection	Trail #	Test Freq.	1=Detection
	(MHz)	0=No Detection		(MHz)	0=No Detection
1	5300	1	16	5300	1
2	5300	1	17	5300	1
3	5300	1	18	5300	1
4	5300	1	19	5300	1
5	5300	1	20	5300	1
6	5300	1	21	5300	1
7	5300	1	22	5300	1
8	5300	1	23	5300	1
9	5300	1	24	5300	1
10	5300	1	25	5300	1
11	5300	1	26	5300	1
12	5300	1	27	5300	1
13	5300	1	28	5300	1
14	5300	1	29	5300	1
15	5300	1	30	5300	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)
2	5290	6	20	5305	60
12	5329	36	24	5328	72
20	5275	60	27	5327	81
24	5306	72	47	5286	141
29	5319	87	57	5329	171
41	5278	123	79	5310	237
47	5323	141	86	5297	258
52	5321	156	88	5306	264
56	5313	168			
57	5316	171			
70	5271	210			
74	5326	222			
86	5291	258			
89	5298	267	-		
90	5289	270			
F	Radar waveform #	3	F	Radar waveform #	4
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
3	5321	9	18	5319	54
14	5295	42	21	5314	63
26	5309	78	34	5286	102
34	5319	102	40	5320	120
35	5317	105	41	5291	123
46	5288	138	72	5318	216
48	5282	144	81	5326	243
49	5287	147	83	5270	249
51	5305	153	85	5274	255
55	5301	165			
56	5283	168			
94	5325	282			





F	Radar waveform #	5	F	Radar waveform #	6
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
0	5311	0	6	5282	18
2	5278	6	12	5281	36
13	5308	39	20	5305	60
19	5279	57	47	5302	141
26	5307	78	64	5301	192
37	5273	111	72	5276	216
47	5291	141	74	5327	222
65	5316	195	81	5308	243
68	5271	204	96	5317	288
82	5317	246			
87	5330	261			
91	5288	273			
F	Radar waveform #	7	F	Radar waveform #	8
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
8	5284	24	3	5280	9
11	5303	33	7	5329	21
18	5290	54	17	5299	51
21	5292	63	26	5305	78
22	5309	66	29	5285	87
23	5313	69	31	5270	93
36	5324	108	37	5286	111
47	5294	141	38	5300	114
57	5321	171	54	5313	162
65	5325	195	88	5304	264
75	5274	225	90	5319	270
96	5305	288	99	5312	297
99	5312	297			





F	Radar waveform #	9	R	adar waveform #	10
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
0	5325	0	2	5286	6
1	5317	3	4	5308	12
3	5293	9	20	5297	60
5	5327	15	28	5287	84
10	5291	30	35	5314	105
18	5315	54	37	5329	111
23	5295	69	44	5320	132
27	5329	81	45	5272	135
30	5302	90	47	5280	141
39	5328	117	48	5313	144
41	5301	123	55	5270	165
43	5318	129	60	5278	180
45	5272	135	72	5284	216
48	5292	144	86	5283	258
49	5314	147	88	5316	264
57	5286	171	-		
61	5285	183	1		
81	5322	243	-		
94	5278	282			
95	5326	285			
98	5320	294			



Page Number: 59 of 114



R	adar waveform #	11	R	adar waveform #	12
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Frequency (MHz)	Hopping Number	Pulse Start (ms)
9	5292	27	0	5278	0
13	5289	39	6	5303	18
19	5271	57	10	5294	30
22	5318	66	14	5298	42
25	5325	75	16	5328	48
27	5303	81	20	5327	60
29	5284	87	31	5319	93
36	5273	108	41	5315	123
38	5274	114	58	5295	174
55	5305	165	60	5329	180
63	5304	189	65	5322	195
75	5322	225	69	5323	207
77	5301	231	70	5326	210
86	5291	258	73	5277	219
89	5290	267	80	5317	240
90	5293	270	84	5311	252
97	5286	291			





R	adar waveform #1	13	R	adar waveform #	14
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
0	5285	0	3	5307	9
2	5305	6	4	5321	12
26	5325	78	6	5322	18
32	5278	96	12	5297	36
45	5316	135	20	5292	60
53	5297	159	22	5293	66
60	5319	180	27	5319	81
62	5328	186	28	5291	84
92	5303	276	31	5294	93
94	5290	282	50	5286	150
			58	5290	174
			68	5300	204
			79	5279	237
			84	5270	252
			86	5327	258
			94	5326	282
R	adar waveform #1	15	R	adar waveform #	16
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
0	5308	0	5	5313	15
4	5288	12	19	5308	57
10	5322	30	31	5316	93
16	5279	48	47	5307	141
38	5319	114	66	5298	198
45	5305	135	73	5314	219
49	5306	147	83	5297	249
63	5293	189	85	5282	255
64	5298	192	87	5324	261
70	5289	210			



Page Number: 61 of 114



R	adar waveform #1	17	Radar waveform #18				
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)		
Number	(MHz)		Number	(MHz)			
37	5303	111	17	5294	51		
41	5326	123	27	5290	81		
50	5270	150	29	5280	87		
52	5312	156	37	5310	111		
53	5321	159	51	5274	153		
54	5300	162	54	5279	162		
57	5319	171	59	5327	177		
65	5292	195	61	5272	183		
70	5320	210	65	5308	195		
75	5316	225	67	5328	201		
76	5289	228	68	5284	204		
95	5298	285	71	5277	213		
96	5330	288	80	5287	240		
97	5308	291	94	5322	282		
			95	5309	285		
			98	5283	294		





R	adar waveform #1	19	R	adar waveform #2	20
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
6	5322	18	5	5273	15
17	5309	51	7	5304	21
19	5298	57	23	5298	69
28	5321	84	35	5296	105
35	5319	105	39	5328	117
44	5282	132	46	5282	138
56	5297	168	56	5280	168
59	5278	177	58	5286	174
72	5314	216	59	5292	177
80	5312	240	68	5310	204
82	5313	246	70	5288	210
86	5311	258	71	5291	213
96	5307	288	90	5313	270
98	98 5326		-		
R	adar waveform #2	21	R	adar waveform #2	22
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
9	5279	27	3	5306	9
11	5309	33	17	5274	51
17	5310	51	23	5299	69
32	5303	96	32	5284	96
35	5306	105	33	5322	99
38	5330	114	57	5270	171
52	5283	156	61	5317	183
53	5298	159	66	5272	198
54	5312	162	87	5302	261
64	5285	192	88	5303	264
68	5273	204	89	5290	267
75	5288	225	93	5293	279
76	5305	228			
91	5274	273			
98	5270	294			





R	adar waveform #2	23	R	adar waveform #2	24	
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)	
Number	(MHz)		Number	(MHz)		
5	5308	15	2	5284	6	
13	5302	39	7	5297	21	
31	5271	93	14	5303	42	
47	5278	141	18	5301	54	
51	5309	153	29	5292	87	
54	5330	162	37	5271	111	
61	5312	183	51	5330	153	
65	5313	195	64	5314	192	
74	5307	222	76	5329	228	
85	5292	255	86	5302	258	
			90	5277	270	
			95	5291	285	
R	adar waveform #2	25	Radar waveform #26			
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)	
Number	(MHz)		Number	(MHz)		
3	5310	9	4	5318	12	
22	5293	66	14	5317	42	
29	5305	87	17	5305	51	
30	5319	90	24	5277	72	
40	5307	120	25	5311	75	
47	5328	141	33	5298	99	
51	5280	153	39	5284	117	
52	5315	156	45	5295	135	
64	5313	192	51	5306	153	
68	5325	204	55	5282	165	
89	5321	267	71	5302	213	
92	5278	276	73	5276	219	
98	5320	294	78	5274	234	
			83	5319	249	
			98	5296	294	





R	adar waveform #2	27	R	adar waveform #2	28
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
4	5292	12	3	5323	9
5	5314	15	11	5277	33
20	5297	60	16	5274	48
30	5305	90	18	5324	54
32	5313	96	20	5308	60
33	5293	99	23	5282	69
52	5299	156	25	5299	75
57	5284	171	36	5275	108
60	5301	180	52	5330	156
67	5279	201	57	5298	171
69	5274	207	74	5279	222
77	5316	231	93	5320	279
91	91 5321				
R	adar waveform #2	29	R	adar waveform #3	30
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
5	5320	15	15	5300	45
8	5287	24	17	5303	51
35	5270	105	29	5314	87
42	5282	126	43	5297	129
44	5302	132	52	5324	156
54	5326	162	60	5298	180
55	5280	165	61	5291	183
59	5329	177	64	5315	192
69	5305	207	80	5277	240
77	5295	231	81	5299	243
			89	5310	267
			91	5270	273
			92	5282	276
			93	5329	279





For 802.11n-HT40

Type 1 Radar Statistical Performance

Trail #	Test Freq.	Pulse Width	PRI (us)	Pulses / Burst	1=Detection
	(MHz)	(us)			0=No Detection
1	5510	1	1428	18	1
2	5510	1	1428	18	1
3	5510	1	1428	18	1
4	5510	1	1428	18	1
5	5510	1	1428	18	1
6	5510	1	1428	18	1
7	5510	1	1428	18	1
8	5510	1	1428	18	1
9	5510	1	1428	18	1
10	5510	1	1428	18	1
11	5510	1	1428	18	1
12	5510	1	1428	18	1
13	5510	1	1428	18	1
14	5510	1	1428	18	1
15	5510	1	1428	18	1
16	5510	1	1428	18	1
17	5510	1	1428	18	1
18	5510	1	1428	18	1
19	5510	1	1428	18	1
20	5510	1	1428	18	1
21	5510	1	1428	18	1
22	5510	1	1428	18	1
23	5510	1	1428	18	1
24	5510	1	1428	18	1
25	5510	1	1428	18	1
26	5510	1	1428	18	1
27	5510	1	1428	18	1
28	5510	1	1428	18	1
29	5510	1	1428	18	1
30	5510	1	1428	18	1
	Det	ection Percentage	(%)		100%





Type 2 Radar Statistical Performance

Trail#	Test Freq.	Pulse Width	PRI (us)	Pulses / Burst	1=Detection
	(MHz)	(us)			0=No Detection
1	5510	3.4	226	27	1
2	5510	4.7	157	27	1
3	5510	4.1	198	24	1
4	5510	4.2	207	26	1
5	5510	3.8	170	29	1
6	5510	3.4	201	24	1
7	5510	4.8	196	27	1
8	5510	2.2	210	26	1
9	5510	1.5	188	24	1
10	5510	4.3	153	26	1
11	5510	3.6	159	27	1
12	5510	4.2	200	27	1
13	5510	4.4	151	25	1
14	5510	1.8	192	29	1
15	5510	2.8	173	23	1
16	5510	4.1	163	26	1
17	5510	3.4	184	28	1
18	5510	2.3	211	23	1
19	5510	2.2	169	28	1
20	5510	1.4	187	28	1
21	5510	1.1	225	26	1
22	5510	1.7	181	26	1
23	5510	1.2	208	26	1
24	5510	3.9	196	29	1
25	5510	3.4	177	27	1
26	5510	3.0	228	29	1
27	5510	4.4	171	24	1
28	5510	1.8	186	27	1
29	5510	4.6	159	24	1
30	5510	4.6	152	27	1
	Det	ection Percentage	(%)		100%





Type 3 Radar Statistical Performance

Trail #	Test Freq.	Pulse Width	PRI (us)	Pulses / Burst	1=Detection
	(MHz)	(us)			0=No Detection
1	5510	7.0	300	18	1
2	5510	7.1	478	18	1
3	5510	7.9	338	16	1
4	5510	10.0	353	17	1
5	5510	6.5	440	16	1
6	5510	6.8	423	17	1
7	5510	7.8	279	17	1
8	5510	6.3	401	16	1
9	5510	6.1	281	17	1
10	5510	9.4	385	17	1
11	5510	7.8	429	18	1
12	5510	8.8	362	16	1
13	5510	8.9	427	18	1
14	5510	6.8	475	18	1
15	5510	9.3	318	18	1
16	5510	9.5	255	16	1
17	5510	9.0	329	18	1
18	5510	6.9	386	17	1
19	5510	9.7	278	17	1
20	5510	9.4	434	18	1
21	5510	9.8	346	16	1
22	5510	9.8	290	16	1
23	5510	8.4	397	17	1
24	5510	6.3	412	18	1
25	5510	9.1	494	18	1
26	5510	6.1	297	18	1
27	5510	6.2	464	17	1
28	5510	6.7	394	16	1
29	5510	7.9	370	17	1
30	5510	7.6	387	16	1
	Det	ection Percentage	(%)		100%



Type 4 Radar Statistical Performance

Trail #	Test Freq.	Pulse Width	PRI (us)	Pulses / Burst	1=Detection
	(MHz)	(us)			0=No Detection
1	5510	17.2	290	16	1
2	5510	20.0	270	16	1
3	5510	19.7	334	12	1
4	5510	18.7	442	13	1
5	5510	16.8	479	14	1
6	5510	12.5	264	12	1
7	5510	12.0	283	15	1
8	5510	15.1	370	13	1
9	5510	15.4	387	15	1
10	5510	14.0	458	16	1
11	5510	17.9	496	14	1
12	5510	13.5	326	15	1
13	5510	14.7	450	15	1
14	5510	16.6	269	14	1
15	5510	13.5	341	13	1
16	5510	19.0	453	16	1
17	5510	16.6	307	16	1
18	5510	16.1	477	15	1
19	5510	16.2	292	14	1
20	5510	18.4	327	14	0
21	5510	13.1	376	14	1
22	5510	12.9	363	13	1
23	5510	16.1	450	14	1
24	5510	15.9	253	14	1
25	5510	11.1	339	12	1
26	5510	11.6	337	12	1
27	5510	19.4	364	12	0
28	5510	16.5	314	12	1
29	5510	12.1	308	15	1
30	5510	17.3	269	15	1
	Det	ection Percentage	(%)		93.3%

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

waveforms is as follows:  $\frac{P_d 1 + P_d 2 + P_d 3 + P_d 4}{4} = (100\% + 100\% + 100\% + 93.3\%)/4 = 98.33\% (>80\%)$ 

FCC ID: 2ABLK-8X4G-1 Page Number: 68 of 114





Type 5 Radar Statistical Performance

Trail #	Test Freq.	1=Detection	Trail #	Test Freq.	1=Detection
	(MHz)	0=No Detection		(MHz)	0=No Detection
1	5510	1	16	5510	1
2	5510	1	17	5510	1
3	5510	1	18	5510	1
4	5510	1	19	5510	1
5	5510	1	20	5510	1
6	5510	1	21	5510	1
7	5510	1	22	5510	1
8	5510	1	23	5510	1
9	5510	1	24	5510	1
10	5510	1	25	5510	1
11	5510	1	26	5510	1
12	5510	1	27	5510	1
13	5510	1	28	5510	1
14	5510	1	29	5510	1
15	5510	1	30	5510	1
	Det	ection Percentage	(%)		100%

Type 5 Radar Waveform_1										
eform N of Bur	Jum = 1 rsts = 16 rval (us)= 7500	00								
st	Off Time (us) 138405	# 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)
		2	6	75	1291	1335	0	138405	0	749999
	1156864	2	12	60	1092	1855	0	1297895	750000	1499999
	316114	3	20	50	1856	1486	1955	1616956	1500000	2249999
	878576	2	20	100	1034	1830	0	2500829	2250000	2999999
	625373	2	8	50	1569	1618	0	3129066	3000000	3749999
	1333487	2	13	65	1581	1866	0	4465740	3750000	4499999
	361376	1	8	85	1809	0	0	4830563	4500000	5249999
	731873	3	17	95	1361	1313	1815	5564245	5250000	5999999
	634050	3	8	70	1650	1029	1485	6202784	6000000	6749999
	1022326	2	17	60	1111	1111	0	7229274	6750000	7499999
	915267	1	9	60	1873	0	0	8146763	7500000	8249999
	340248		16	60	1632		-			
	633068	1				0	0	8488884	8250000	8999999
	1243543	1	5	65	1464	0	0	9123584	9000000	9749999
	601447	1	14	95	1316	0	0	10368591	9750000	10499999
	895188	2	5	50	1282	1712	0	10971354	10500000	11249999
n1 mm-1	er of pulses in	2	17	60	1488	1015	0	11869536	11250000	11999999

FCC ID: 2ABLK-8X4G-1 Page Number: 69 of 114





				Type	5 Radar V	Vaveform	າ_2			
eform Nu	m = 2									
of Burs	w - 2 ts = 11 val (us)= 1090	909								
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
	816770	2	12	80	1331	1775	0	816770	0	1090908
	1041201	2	16	55	1298	1727	0	1861077	1090909	2181817
	935103	3	6	85	1101	1049	1927	2799205	2181818	3272726
	1024253	-					0			
	1335749	2	5	80	1784	1146		3827535	3272727	4363635
	440898	1	20	90	1535	0	0	5166214	4363636	5454544
	1196505	1	19	100	1693	0	0	5608647	5454545	6545453
	1124510	1	19	75	1782	0	0	6806845	6545454	7636362
		3	15	70	1532	1129	1313	7933137	7636363	8727271
	1207872	2	7	55	1327	1310	0	9144983	8727272	9818180
	1741347	1	15	50	1393	0	0	10888967	9818181	10909089
	334149	2	6	65	1827	1212	0	11224509	10909090	11999998
al numbe:	r of pulses in	waveform = 2	20				0	11224303	10505050	11333330
				-	5 D . L . W	VI				
	m = 3  ts = 20 val (us)= 6000 Off Time (us) 197918 452337			Туре	5 Radar V	Vavetorn	1_3			
eform Nu of Burs	m = 3  ts = 20 val (us)= 6000	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
	452337	2	5	100	1234	1563	0	197918	0	599999
	809468	2	16 12	50 55	1882 1788	1778 1838	0	653052 1466180	600000 1200000	1199999 1799999
	683247	1	20	60	1627	0	0	2153053	1800000	2399999
	782455 104215	1	17	55	1865	0	0	2937135	2400000	2999999
	967032	3	20	95	1153	1368	1978	3043215	3000000	3599999
	358272	3	20 17	60 80	1078 1518	1784 1664	1219 0	4014746 4377099	3600000 4200000	4199999 4799999
	715922	2	15	50	1518	1729	0	4377099 5096203	4800000	4799999 5399999
	876239 427941	3	7	100	1062	1107	1492	5975387	5400000	5999999
	527042	1	16	85	1445	0	0	6406989	6000000	6599999
	342539	1 2	5 14	80 55	1953 1740	o 1848	0	6935476 7279968	6600000 7200000	7199999 7799999
	1091998	3	12	50	1405	1608	1959	8375554	7800000	8399999
	88391 750547	3	11	70	1144	1111	1106	8468917	8400000	8999999
	967343	1	14	65	1617	0	0	9222825	9000000	9599999
	62715	2	7 15	55 90	1777 1293	1472 0	0	10191785 10257749	9600000 10200000	10199999 10799999
	887804	2	7	50	1046	1855	0	11146846	10800000	11399999
al numbe	434604 r of pulses ir	2 waveform = 3	16 39	75	1050	1957	0	11584351	11400000	11999999
					5 Radar V		. 4			
e :-	- 1			Type	o Nauai V	•aveioiii	<b>'-</b>			
eform Nu of Burs st Inter	m = 4 ts = 13 val (us)= 9230	77								
st	Off Time (us) 767007	# 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
	1043239	2	5	85	1990	1429	0	767007	0	923076
	70571	1	15	55	1974	0	0	1813665	923077	1846153
	1620435	2	19	90	1916	1224	0	1886210	1846154	2769230
	214451	3	15	85	1782	1322	1040	3509785	2769231	3692307
	1298651	3	16	80	1387	1020	1214	3728380	3692308	4615384
		1	14	100	1594	0	0	5030652	4615385	5538461
	792054	3	9	95	1385	1320	1177	5824300	5538462	6461538
	1513465	3	8	55	1232	1189	1401	7341647	6461539	7384615
	579360	2	15	65	1413	1439	0	7924829	7384616	8307692
	1030848	2	10	60	1700	1301	0	8958529	8307693	9230769
	1150931	2	17	100	1393	1199	0	10112461	9230770	10153846
	515906			50	1883	1517	0	10630959	10153847	11076923
		2	15							
	637966	2	15 14	75	1617	1280	0	11272325	11076924	12000000

FCC ID: 2ABLK-8X4G-1 Page Number: 70 of 114





				Type	5 Radar V	Vaveform	า_5			
veform Num um of Burst:	= 5									
m of burst: rst Interv: rst	s = 17 al (us)= 7058 Off Time	.82	Chirp	PW	Pulse 1	Pulse 2	Pulse 3	Ştart Loc	Start Burst	End Burst
	(us) 386052	Pulses	Chirp (MHz)	(us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pri (us)	(us)	Interval (us	Interval (u
	655795	1	12	85	1603	0	0	386052	0	705881
	654892	1	9	90	1072	0	0	1043450	705882	1411763
	919664	2	6	65	1695	1161	0	1699414	1411764	2117645
		1	7	75	1666	0	0	2621934	2117646	2823527
	874257	3	8	70	1164	1587	1189	3497857	2823528	3529409
	151859	2	17	85	1739	1821	0	3653656	3529410	4235291
	908429	1	18	55	1720	0	0	4565645	4235292	4941173
	549382	3	9	95	1290	1925	1656	5116747	4941174	5647055
	902134	1	7	90	1727	0	0	6023752	5647056	6352937
1	813517	1	16	75	1519	0	o	6838996	6352938	7058819
	517746	3	13	60	1116	1841	1408	7358261	7058820	7764701
	895584									
	639478	2	18	55	1300	1819	0	8258210	7764702	8470583
	294477	2	6	90	1006	1086	0	8900807	8470584	9176465
	1258988	3	16	90	1169	1390	1201	9197376	9176466	9882347
	290543	3	11	75	1220	1153	1227	10460124	9882348	10588229
	1100364	1	7	50	1352	0	0	10754267	10588230	11294111
al number		3 waveform = 3	10	60	1259	1139	1711	11855983	11294112	11999993
*********	************	**************				konferije				
				Туре	5 Radar V	Vaveform	า_6			
eform Num	= 6 z = 19 al (us)= 6315' Off Time									
st Interva	off Time	# #	Chirp (MHz)	PW	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc	Start Burst : Interval(us)	End Burst Interval(us)
	(us) 161397	Pulses 3	(MHz)	(us) 65	Pri(us) 1427	1506	Pri(us) 1501	(us) 161397	Interval(us)	Interval (us) 631578
	565825	2	11	50	1035	1202	0	731656	631579	1263157
	746515	1	9	75	1521	0	0	1480408	1263158	1894736
	520418	3	9	55	1041	1649	1239	2002347	1894737	2526315
	997263	2	18	90	1816	1369	0	3003539	2526316	3157894
	242829	1	10	100	1718	0	0	3249553	3157895	3789473
	565199	3	19	80	1593	1286	1575	3816470	3789474	4421052
	868460	1	10	90	1471	0	0	4689384	4421053	5052631
	717934	1	11	95	1694	0	0	5408789	5052632	5684210
	793087	3	8	65	1364	1622	1054	6203570	5684211	6315789
	234086 787038	1	5	50	1333	0	0	6441696	6315790	6947368
	387018	3	7	100	1253	1452	1832	7230067	6947369	7578947
	698608	1	5	75	1364	0	0	7621622	7578948	8210526
	551634	1	13	50	1954	0	0	8321594	8210527	8842105
	609690	3	6	60	1166	1951	1306	8875182	8842106	9473684
	791581	2	8	65	1779	1547	0	9489295	9473685	10105263
	594932	3	7	100	1670	1701	1966	10284202	10105264	10736842
	692306	2	11	55	1113	1417	0	10884471	10736843	11368421
al number	of pulses in	2 waveform = 38	14 3 <del>134134344444</del>	100	1724 <del> </del>	1714 *	0	11579307	11368422	12000000
				Type	5 Radar V	Vaveforn	า_7			
eform Num of Burst	= 7 s = 16 al (us)= 7500	00								
st Interv	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)
	477079	1	16	80	1752	0	0	477079	0	749999
		3	17	85	1722	1573	1949	1101713	750000	1499999
	622882			60	1636	1757	0	2195711	1500000	2249999
	622882 1088754			00						
		2	18	TC.	1077	1455	1634	2885659	2250000	2999999
	1088754	2	13	70	1077					3749999
	1088754 686555 184106	2	13 20	85	1444	1531	1949	3073931	3000000	
	1088754 686555 184106 751430	2 3 3 1	13 20 13	85 100			1949 0	3830285	3750000	4499999
	1088754 686555 184106 751430 852271	2 3 3	13 20	85	1444	1531				
	1088754 686555 184106 751430 852271 1209972	2 3 3 1	13 20 13	85 100	1444 1132	1531 0	0	3830285	3750000	4499999
	1088754 686555 184106 751430 852271 1209972 685168	2 3 3 1 2	13 20 13 5	85 100 <b>7</b> 0	1444 1132 1831	1531 0 1693	0	3830285 4683688	3750000 4500000	4499999 5249999
st	1088754 686555 184106 751430 852271 1209972	2 3 3 1 2 2	13 20 13 5 7	85 100 70 75 65	1444 1132 1831 1570 1274	1531 0 1693 1542 0	0 0 0	3830285 4683688 5897184 6585464	3750000 4500000 5250000 6000000	4499999 5249999 5999999 6749999
st	1088754 686555 184106 751430 852271 1209972 685168	2 3 3 1 2 2 1	13 20 13 5 7 19	85 100 70 75 65	1444 1132 1831 1570 1274 1192	1531 0 1693 1542 0 1296	0 0 0 0	3830285 4683688 5897184 6585464 7355589	3750000 4500000 5250000 6000000	4499999 5249999 5999999 6749999
st	1088754 686555 184106 751430 852271 1209972 685168 768851	2 3 3 1 2 2 1 2 2	13 20 13 5 7 19 8	85 100 70 75 65 60	1444 1132 1831 1570 1274 1192 1720	1531 0 1693 1542 0 1296 1720	0 0 0 0 0	3830285 4683688 5897184 6585464 7355589 7799378	3750000 4500000 5250000 6000000 6750000	4499999 5249999 5999999 6749999 7499999
st	1088754 686555 184106 751430 852271 1209972 685168 768851 441301	2 3 3 1 2 2 1 2 2 2 2	13 20 13 5 7 19 8 17	85 100 70 75 65 60 55	1444 1132 1831 1570 1274 1192 1720	1531 0 1693 1542 0 1296 1720 1991	0 0 0 0 0	3830285 4683688 5897184 6585464 7355589 7799378 8474800	3750000 4500000 5250000 6000000 6750000 7500000	4499999 5249999 5999999 6749999 7499999 8249999
· · · · · · · · · · · · · · · · · · ·	1088754 686555 184106 751430 852271 1209972 685168 768851 441301 671982	2 3 3 1 2 2 1 2 2 2 2 2	13 20 13 5 7 19 8 17 8	85 100 70 75 65 60 55 85	1444 1132 1831 1570 1274 1192 1720 1202	1531 0 1693 1542 0 1296 1720 1991	0 0 0 0 0 0	3830285 4683688 5897184 6585464 7355589 7799378 8474800 9230014	3750000 4500000 5250000 6000000 6750000 7500000 8250000	4499999 5249999 5999999 6749999 7499999 8249999 8999999
st Interv	1088754 686555 184106 751430 852271 1209972 685168 768851 441301 671982 752021 970345	2 3 3 1 2 2 1 2 2 2 2	13 20 13 5 7 19 8 17	85 100 70 75 65 60 55	1444 1132 1831 1570 1274 1192 1720	1531 0 1693 1542 0 1296 1720 1991	0 0 0 0 0	3830285 4683688 5897184 6585464 7355589 7799378 8474800	3750000 4500000 5250000 6000000 6750000 7500000	4499999 5249999 5999999 6749999 7499999 8249999
· · · · · · · · · · · · · · · · · · ·	1088754 686555 184106 751430 852271 1209972 685168 768851 441301 671982 752021	2 3 3 1 2 2 1 2 2 2 2 2	13 20 13 5 7 19 8 17 8	85 100 70 75 65 60 55 85	1444 1132 1831 1570 1274 1192 1720 1202	1531 0 1693 1542 0 1296 1720 1991	0 0 0 0 0 0	3830285 4683688 5897184 6585464 7355589 7799378 8474800 9230014	3750000 4500000 5250000 6000000 6750000 7500000 8250000	4499999 5249999 5999999 6749999 249999 8999999





				Туре	5 Radar	Wavefor	'm_8			
eform Num	= 8									
of Bursts st Interve st	= 8	oo #	Chirp	PW	Pulse 1	Pulse 2 Pri(us)	Pulse 3	Start Loc (us)	Start Burst	End Burst
	(us) 197918		(MHz)	(us)	Pulse 1 Pri(us)		Pulse 3 Pri(us)		Interval (us)	Interval (us)
	452337	2	5	100	1234	1563	0	197918	0	599999
	462337 809468	2	16	50	1882	1778	0	653052	600000	1199999
		2	12	55	1788	1838	0	1466180	1200000	1799999
	683247	1	20	60	1627	0	0	2153053	1800000	2399999
	782455	1	17	55	1865	0	0	2937135	2400000	2999999
	104215	3	20	95	1153	1368	1978		3000000	3599999
	967032							3043215		
	358272	3	20	60	1078	1784	1219	4014746	3600000	4199999
	715922	2	17	80	1518	1664	0	4377099	4200000	4799999
	876239	2	15	50	1216	1729	0	5096203	4800000	5399999
	427941	3	7	100	1062	1107	1492	5975387	5400000	5999999
		1	16	85	1445	0	0	6406989	6000000	6599999
	527042	1	5	80	1953	0	0	6935476	6600000	7199999
	342539	2	14	55	1740	1848	0	7279968	7200000	7799999
	1091998	3	12	50	1405	1608	1959	8375554	7800000	8399999
	88391	3		70			1106	8468917	8400000	8999999
	750547		11		1144	1111				
	967343	1	14	65	1617	0	0	9222825	9000000	9599999
	62715	2	7	55	1777	1472	0	10191785	9600000	10199999
	887804	1	15	90	1293	0	0	10257749	10200000	10799999
	434604	2	7	50	1046	1855	0	11146846	10800000	11399999
.1		2	16	75	1050	1957	0	11584351	11400000	11999999
T number	of pulses in	waveform = 39	*********			*				
				Туре	5 Radar	Wavefor	·m_9			
form Num of Bursts	= 9 : = 19									
t Interva	:- 19 al (us)= 6315 Off Time (us) 454532	.79 #	Chirp (MHz)	PW	Pulse 1	Pulse 2	Pulse 3	Start Loc (us)	Start Burs	t End Burst
	(us) 454532	Pulses	(MHz)	(us)	Pri(us)	Pri(us)	Pri(us)	(us)	Interval (u	s) Interval(us)
	679713	2	11	50	1422	1633	0	454532	0	631578
		3	15	85	1996	1401	1828	1137300	631579	1263157
	539685	2	6	60	1489	1948	0	1682210	1263158	1894736
	423209	1	19	75	1028	0	0	2108856	1894737	2526315
	639672	3	13	85	1616	1833	1275	2749556	2526316	3157894
	864742									
	734608	3	12	95	1262	1946	1846	3619022	3157895	3789473
	515579	3	12	80	1762	1057	1993	4358684	3789474	4421052
	285624	2	16	60	1659	1683	0	4879075	4421053	5052631
		1	9	55	1741	0	0	5168041	5052632	5684210
	722126	2	16	80	1992	1928	0	5891908	5684211	6315789
	533327	1	11	80	1900	0	0	6429155	6315790	6947368
	915438									
	271359	2	7	85	1492	1010	0	7346493	6947369	7578947
	1107825	2	13	95	1034	1521	0	7620354	7578948	8210526
		2	19	70	1979	1874	0	8730734	8210527	8842105
	335448	2	15	85	1264	1085	0	9070035	8842106	9473684
	681593	1	14	95	1929	0	0	9753977	9473685	10105263
	373725	2					0	10129631	10105264	10736842
	818738		11	90	1412	1762				
	566714	3	6	65	1739	1786	1828	10951543	10736843	11368421
l number		1 waveform = 3	14	65	1884	•	۰	11523610	11368422	12000000
*******	<del></del>	***********	+++++++++++++++++++++++++++++++++++++++			****				
				Туре	5 Radar \	Wavefori	m_10			
form Num of Bursts	= 10 : = 18 al (us)= 6666	57				Pulse 2	Pulse 3	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
eform Num of Bursts t Interva	: = 18 al (us)= 6666 Off Time	#	Chirp	PW (v.a.)	Pulse 1				TuterAgl(ds)	
eform Num of Bursts et Interve	= 10 ; = 18 il (us)= 6666 Off Time (us) 66583	# Pulses	(MHz)	(us)	Pri(us)	Pri(us)	Pri(us)			
form Num of Bursts t Interva	: = 18 al (us)= 6666 Off Time (us)	# Pulses 2	(MHz)	(us) 85	Pri(us) 1589	Pri(us) 1455	0	66583	0	666666
form Num of Burst: t Interve	: = 18 ul (us) = 6666 Off Time (us) 66583 783588	# Pulses	(MHz)	(us)	Pri(us)	Pri(us)		66583 853215	o 666667	666666 1333333
form Num of Burst: t Interva	e = 18 al (us)= 6666 Off Time (us) 66583 783588 941905	# Pulses 2	(MHz)	(us) 85	Pri(us) 1589	Pri(us) 1455	0	66583		
form Num of Bursts t Interva	s = 18 all (us) = 6666 Off Time (us) 66583 783588 941905 245864	# Pulses 2 3	(MHz) 9 7	(us) 85 75	Pri(us) 1589 1907	Pri(us) 1455 1552	0 1032	66583 853215	666667	1333333
form Num of Bursts t Interva	e = 18 al (us)= 6666 Off Time (us) 66583 783588 941905	# Pulses 2 3 2	(MHz) 9 7 15	(us) 85 75 100	Pri(us) 1589 1907 1901 1227	Pri(us) 1455 1552 1752	0 1032 0	66583 853215 1799611 2049128	666667 1333334 2000001	1333333 2000000 2666667
form Num of Burst: t Interva	s = 18 all (us) = 6666 Off Time (us) 66583 783588 941905 245864	# Pulses 2 3 2 1	(MHz) 9 7 15 12	(us) 85 75 100 100 80	Pri(us) 1589 1907 1901 1227 1548	Pri(us) 1455 1552 1752 0 1601	0 1032 0 0 1093	66583 853215 1799611 2049128 2731210	666667 1333334 2000001 2666668	1333333 2000000 2666667 3333334
form Num of Bursts t Interva	s = 18 11 (us) = 6666 Off Time (us) 66583 783588 941905 245864 680855	#Pulses 2 3 2 1 3	(MHz) 9 7 15 12 12 17	(us) 85 75 100 100 80 50	1589 1907 1901 1227 1548 1998	Pri(us) 1455 1552 1752 0 1601 1006	0 1032 0 0 1093	66583 853215 1799611 2049128 2731210 3951488	666667 1333334 2000001 2666668 3333335	1333333 2000000 2666667 3333334 4000001
form Num of Bursts t Interva	s = 18 11 (us) = 6666 Off Time (us) 66583 783588 941905 245864 680855 1216036 211394	#Pulses 2 3 2 1 3 2 2	(MHz) 9 7 15 12 12 17	(us) 85 75 100 100 80 50	Pri(us) 1589 1907 1901 1227 1548 1998 1149	Pri(us) 1455 1552 1752 0 1601 1006 1036	0 1032 0 0 1093 0	66583 853215 1799611 2049128 2731210 3951488 4165886	666667 1333334 2000001 2666668 3333335 4000002	1933333 2000000 2666667 3333334 4000001 4666668
form Num of Burst: t Interve t	:= 18 11 (us) = 6666 Off Time (us) 66583 783588 941905 245864 680855 1216036 211394	#Pulses 2 3 2 1 3	(MHz) 9 7 15 12 12 17	(us) 85 75 100 100 80 50	1589 1907 1901 1227 1548 1998	Pri(us) 1455 1552 1752 0 1601 1006	0 1032 0 0 1093	66583 853215 1799611 2049128 2731210 3951488	666667 1333334 2000001 2666668 3333335	1333333 2000000 2666667 3333334 4000001
oform Num of Bursts tt Interva	:= 18 (1u) = 6666 Off Time (67 Time (6583 783588 941905 245864 680855 1216036 211394 857129	#Pulses 2 3 2 1 3 2 2	(MHz) 9 7 15 12 12 17	(us) 85 75 100 100 80 50	Pri(us) 1589 1907 1901 1227 1548 1998 1149	Pri(us) 1455 1552 1752 0 1601 1006 1036	0 1032 0 0 1093 0	66583 853215 1799611 2049128 2731210 3951488 4165886	666667 1333334 2000001 2666668 3333335 4000002	1933333 2000000 2666667 3333334 4000001 4666668
form Num of Burste t Interve	3 = 18 = 18 = 6666 Off Time (10 = 6666 Off Time (10 = 6668 Off Time (10 = 6688 Off Tim	#Pulses 2 3 2 1 3 2 1 3 2 3 3 2 3 3	(MHz) 9 7 15 12 12 17 9	(us) 85 75 100 100 80 50 60	Pri(us) 1589 1907 1901 1227 1548 1998 1149 1685 1701	Pri(us) 1455 1552 1752 0 1601 1006 1036 1550	0 1032 0 0 1093 0 0	66583 853215 1799611 2049128 2731210 3951488 4165886 5025200	666667 1333334 2000001 2666668 3333335 4000002 4666669	1333333 2000000 2666667 3333334 4000001 4666668 5333335 6000002
form Num of Bursts t Intervi	:= 18 (1u) = 6666 Off Time (67 Time (6583 783588 941905 245864 680855 1216036 211394 857129	#Pulses 2 3 2 1 3 2 2 3 2 1 3 2 2 2 1 1 3 1	(MHz) 9 7 15 12 12 17 9 7 8	(u.s) 85 75 100 100 80 50 60 85	Pri(us) 1589 1907 1901 1227 1548 1998 1149 1685 1701 1515	Pri(us) 1455 1552 1752 0 1601 1006 1036 1550 1746	0 1032 0 0 1093 0 0 1231 1472	66583 853215 1799611 2049128 2731210 3951488 4165886 5025200 5762477 6402658	666667 1333334 2000001 2666668 3333335 4000002 4666669 5333336 6000003	1333333 2000000 2666667 3333334 4000001 4666668 5333335 6000002 6666669
form Num of Bursts t Interve	3 = 18 = 18 = 6666 Off Time (10 = 6666 Off Time (10 = 6668 Off Time (10 = 6688 Off Tim	#Pulses 2 3 2 1 3 2 2 2 1 3 3 2 2 1 3 3 1 3 3 1	(MHz) 9 7 15 12 12 17 9 7 8 13	(Ge) 85 75 100 100 80 50 60 85 90 60 80	Pri(us) 1589 1907 1901 1227 1848 1998 1149 1685 1701 1515	Pri(us) 1455 1552 1752 0 1601 1006 1036 1550 1746 0 1357	0 1032 0 0 1093 0 0 1231 1472 0	66583 853215 1799611 2049128 2731210 3951488 4165886 5025200 5762477 6402658 6752524	666667 1333334 2000001 2666668 333335 4000002 4666669 5333336 6000003 6666670	1333333 2000000 2666667 3333334 4000001 4666668 5333336 60000002 6666669 7333336
form Num of Burst of Burst t Interva	; = 18 )= 6666 (Cf. Trime (Cf. Trime (6683) 783588 941905 245864 680855 1216036 211394 857129 732811 635262 348351 722002	# Pulses 2 3 2 1 3 2 2 1 3 2 2 3 3 2 3 3 3 3	(MHz) 9 7 15 12 12 17 9 7 8	(u.s) 85 75 100 100 80 50 60 85	Pri(us) 1589 1907 1901 1227 1548 1998 1149 1685 1701 1515	Pri(us) 1455 1552 1752 0 1601 1006 1036 1550 1746 0 1357	0 1032 0 0 1093 0 0 1231 1472	66583 853215 1799611 2049128 2731210 3951488 4165886 5025200 5762477 6402658 6762524 7478623	666667 1333334 2000001 2666668 3333335 4000002 4666669 5333336 6000003	1333333 2000000 2666667 3333334 4000001 4666668 5333335 6000002 6666669
form Num of Burst: t Interve	1 = 18	#Pulses 2 3 2 1 3 2 2 2 1 3 3 2 2 1 3 3 1 3 3 1	(MHz) 9 7 15 12 12 17 9 7 8 13	(Ge) 85 75 100 100 80 50 60 85 90 60 80	Pri(us) 1589 1907 1901 1227 1848 1998 1149 1685 1701 1515	Pri(us) 1455 1552 1752 0 1601 1006 1036 1550 1746 0 1357	0 1032 0 0 1093 0 0 1231 1472 0	66583 853215 1799611 2049128 2731210 3951488 4165886 5025200 5762477 6402658 6752524	666667 1333334 2000001 2666668 333335 4000002 4666669 5333336 6000003 6666670	1333333 2000000 2666667 3333334 4000001 4666668 5333336 60000002 6666669 7333336
form Num of Burste t Interve	1 = 18 = 6666 (Cr Time (Cr Time (Cr Time (Cr Time (Cr Time (AC Tim	# Pulses 2 3 2 1 3 2 2 1 3 2 2 3 3 2 3 3 3 3	(MHz) 9 7 15 12 12 17 9 7 8 13 12 15	(us) 85 75 100 100 50 60 85 90 60 85	Pri(us) 1589 1907 1901 1227 1548 1998 1149 1685 1701 1515 1140 1239	Pri(us) 1455 1552 1752 0 1601 1006 1036 1550 1746 0 1357	0 1032 0 0 1093 0 0 1231 1472 0 1600	66583 853215 1799611 2049128 2731210 3951488 4165886 5025200 5762477 6402658 6762524 7478623	666667 133334 2000001 2666668 3333335 4000002 4666669 5333336 6000003 6666670 7333337	1333333 2000000 2666667 3333334 4000001 4666668 5333335 6000002 6666669 7333336 8000003
oform Num of Burst: tt Interve	1 = 18	# Pulses 2 3 2 1 3 2 2 3 3 2 2 3 3 3 1 3 2 2	(MHz) 9 7 15 12 17 9 7 8 13 12 10 9	(us) 85 75 100 100 80 50 60 85 90 60 80 85 50	Pri (ue) 1689 1907 1901 1227 1548 1998 1149 1686 1701 1515 1140 1239 1240	Pri(us) 1455 1552 1752 0 1601 1006 1036 1550 1746 0 1357 1990 1484 0	0 1032 0 0 1093 0 0 1231 1472 0 1600 1730 0	66583 853215 1799611 2049128 2731210 3951488 4165886 5025200 5762477 6402658 6752524 7478623 8542886 8851529	666667 1333334 2000001 2666668 3333335 4000002 4666669 5333336 6000003 6666670 7333337 8000004 8666671	1933333 2000000 2666667 3333334 4000001 4666668 5333335 6000002 6666669 7333336 8000003 8666670 9333337
oform Num of Burst: it Interve	1 = 18 = 6666 (Cr Time (Cr Time (Cr Time (Cr Time (Cr Time (AC Tim	# Pulses 2 3 2 1 3 2 2 3 3 3 1 3 2 1 1 3 3 1	(MHz) 9 7 15 12 17 9 7 8 13 12 15 10 9 8	(us) 85 75 100 100 50 60 85 90 60 86 85 90 60 87 80	Pri (ue) 1589 1907 1901 1227 1548 1998 1149 1685 1701 1515 1140 1239 1240 1834 1461	Pri(us) 1455 1552 1752 0 1601 1006 1036 1550 1746 0 1357 1990 1484 0	0 1032 0 0 1093 0 0 1231 1472 0 1600 1730 0 0	66583 853215 1799611 2049128 2731210 3951488 4165886 5025200 5762477 6402658 6752524 7478623 8542886 8851529 9990948	666667 1333334 2000001 2666668 3333335 4000002 4666669 5333336 6000003 6666670 7333337 8000004 8666671 9333338	1333333 2000000 2666667 3333334 4000001 4666668 5333335 6000002 6666669 7333336 8000003 8666670 9333337 10000004
form Num of Burst: t Intervi	1 = 18 = 6666 (Cur) Time (Cur) Time (6683) 783688 941906 245864 680856 1216096 211394 857129 732811 635262 348351 722002 1059304 305919 1137586	# Pulses 2 3 2 1 3 2 2 3 3 3 2 2 3 3 1 3 2 1 2 1	(MHz) 9 7 15 12 12 17 9 7 8 13 12 15 10 9 8 14	(us) 85 75 100 100 80 50 60 85 90 60 85 50 60 80 70	Pri (us) 1589 1907 1901 1227 1548 1998 1149 1686 1701 1515 1140 1239 1240 1834 1461 1190	Pri (us)  1455  1552  1752  0  1601  1006  1036  1550  1746  0  1357  1990  1484  0  0  1888	0 1032 0 0 1093 0 0 1231 1472 0 1600 1730 0 0	66583 853215 1799611 2049128 2731210 3951488 4165886 5025200 5762477 6402658 6752524 7478623 8542886 8851529 9990948 10559627	666667 1333334 2000001 2666668 3333335 4000002 4666669 5333336 6000003 6666670 7333337 8000004 8666671 9333338 10000005	1333333 2000000 2666667 3333334 4000001 4666668 5333335 6000002 6666669 7333336 8000003 8666670 9333337 10000004 10666671
oform Mum of Burst: it Intervi	1 = (18) = 6666 (Off Time	# Pulses 2 3 2 1 3 2 2 3 3 3 1 3 2 1 1 3 3 1	(MHz) 9 7 15 12 17 9 7 8 13 12 15 10 9 8	(us) 85 75 100 100 50 60 85 90 60 86 85 90 60 87 80	Pri (ue) 1589 1907 1901 1227 1548 1998 1149 1685 1701 1515 1140 1239 1240 1834 1461	Pri(us) 1455 1552 1752 0 1601 1006 1036 1550 1746 0 1357 1990 1484 0	0 1032 0 0 1093 0 0 1231 1472 0 1600 1730 0 0	66583 853215 1799611 2049128 2731210 3951488 4165886 5025200 5762477 6402658 6752524 7478623 8542886 8851529 9990948	666667 1333334 2000001 2666668 3333335 4000002 4666669 5333336 6000003 6666670 7333337 8000004 8666671 9333338	1333333 2000000 2666667 3333334 4000001 4666668 5333335 6000002 6666669 7333336 8000003 8666670 9333337 10000004





				Type	5 Radar V	Vaveforn	1_11			
veform No	fum = 11 sts = 14 rval (us)= 8571	43								
rst inte. rst	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)		End Burst Interval(us)
	236948	1	7	60	1946	0	0	236948	0	857142
	715091	1	15	85	1053	0	0	953985	857143	1714285
	1346246	1	14	95	1203	0	0	2301284	1714286	2571428
	1068971	2	12	90	1986	1012	0	3371458	2571429	3428571
	139424	2	6	60	1233	1510	0	3513880	3428572	4285714
	1060118	1	12	55	1839	0	0	4576741	4285715	5142857
	994907	1	17	90	1048	0	0	5573487	5142858	6000000
	993112	3	9	70	1113	1366	1038	6567647	6000001	6857143
	877724	1	14	85	1092	0	0	7448888	6857144	7714286
	417845	1	20	100	1245	0	0	7867825	7714287	8571429
	748900	3	5	75	1187	1397	1125	8617970	8571430	9428572
	968308									
	1312356	2	18	55	1386	1850	0	9589987	9428573	10285715
	514678		15	100	1025	1057	1554	10905579	10285716	11142858
al numb *****	er of pulses ir	3 n waveform = 2 ***********	7 25 *********	55 *********	1570 ******	1057 ⊶	1964	11423893	11142859	12000001
				Type	5 Radar V	Vaveform	n_12			
eform N	Jum = 12									
st Inte	ests = 17 erval (us)= 7058 Off Time (us)	382 #	Chirp (MHz)	PW .	Pulse 1	Pulse 2	Pulse 3	Start Loc	Start Burst	End Burst
	205134	Pulses 1	(MHz)	(us) 50	Pri (us) 1770	Pri(us) 0	Pri (us) 0	(us) 205134	Interval (us)	Interval (us) 705881
	905354	1	19	85	1911	0	0	1112258	705882	1411763
	908464	3	10	55	1796	1725	1560	2022633	1411764	2117645
	524230	2	12	80	1202	1615	0	2551944	2117646	2823527
	540356	1	16	90	1867	0	0	3095117	2823528	3529409
	1097421	2	14	75	1895	1282	0	4194405	3529410	4235291
	483835	2	18	100	1470	1618	0	4681417	4235292	4941173
	604455	3	7	70	1752	1072	1247	5288960	4941174	5647055
	917027	3	6	65	1039	1065	1258	6210058	5647056	6352937
	813326 28979	3	10	50	1434	1071	1484	7026746	6352938	7058819
	28979 1070198	1	5	95	1163	0	0	7059714	7058820	7764701
	413023	2	19	50	1834	1091	0	8131075	7764702	8470583
	831700	1	15	85	1902	0	0	8547023	8470584	9176465
	579948	3	14	75	1610	1605	1764	9380625	9176466	9882347
	1077832	2	5	75	1356	1812	0	9965552	9882348	10588229
	940647	2	14	95	1413	1783	0	11046552	10588230	11294111
al numb ******	er of pulses in	3 n waveform = :	5 35 *******	70 *****	1437	1813	1137	11990395	11294112	11999993
				Type	5 Radar V	Vaveform	า_13			
of Bur	Jum = 13 rsts = 15 rval (us)= 800	000								
st	Off Time (us) 235211	# 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
	892162	1	18	100	1001	0	0	235211	0	799999
	887712	2	5	50	1230	1566	0	1128374	800000	1599999
	1155154	3	17	65	1710	1093	1304	2018882	1600000	2399999
	382915	2	7	55	1117	1673	0	3178143	2400000	3199999
	1187583	3	18	55	1770	1238	1588	3563848	3200000	3999999
	531760	2	19	95	1098	1779	0	4756027	4000000	4799999
	309664	3	15	75	1780	1240	1422	5290664	4800000	5599999
	1118420	2	11	65	1172	1272	0	5604770	5600000	6399999
	1110450	3	11	50	1635	1621	1626	6725634	6400000	7199999
	Educat		14	75	1023	1461	0	7321451	7200000	7999999
	590935 1402286	2			4000	1870	0	8726221	8000000	8799999
	1402286	2	18	80	1263					
	1402286 164257		18 14	80 70	1344	0	0	8893611	8800000	9599999
	1402286 164257 715995	2					0	8893611 9610950		9599999 10399999
	1402286 164257	2 1	14	70	1344	0			8800000	

FCC ID: 2ABLK-8X4G-1 Page Number: 73 of 114





				Type !	5 Radar W	laveform	_14			
c ,	N - 14									
	Num = 14 rsts = 9									
	erval (us)= 133 Off Time	3333	Chim	PW	Pulse 1	Pulse 2	Pulse 3	Start Loc	Start Burst	End Burst
51	(us)	# Pulses	Chirp (MHz)	(us)	Pri(us)	Pri(us)	Pri(us)	(us)	Interval (us	
	239691	3	6	50	1183	1393	1245	239691	0	1333332
	1816448		15	90	1812	0	0		1333333	
	1528305	1						2059960		2666665
	544016	2	20	85	1203	1747	0	3590077	2666666	3999998
	1658416	1	13	95	1429	0	0	4137043	3999999	5333331
		3	12	75	1000	1888	1736	5796888	5333332	6666664
	2098516	3	18	65	1438	1722	1857	7900028	6666665	7999997
	1038937	3	5	80	1340	1458	1633	8943982	7999998	9333330
	1705810									
	819198	1	16	75	1672	0	0	10654223	9333331	10666663
1		1	20	60	1427	0	0	11475093	10666664	11999996
	ber of pulses i ******			******	****	***				
				Tyne !	5 Radar W	laveform	15			
				.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Tradar Tr					
of Bu	Num = 15 rsts = 13									
t Inte	erval (us)= 9230	077	an .	DIII.	D.1. 1	D 1 0	D 1 0	g	G B .	F 1 F .
t	Off Time (us) 760449	# 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
	966240	3	12	85	1073	1093	1848	760449	0	923076
	404791	1	18	70	1082	0	0	1730703	923077	1846153
	1480705	1	19	85	1977	0	0	2136576	1846154	2769230
	272265	1	18	50	1390	0	0	3619258	2769231	3692307
	1022063	3	7	80	1366	1481	1764	3892913	3692308	4615384
	1174035	2	20	90	1710	1464	0	4919587	4615385	5538461
	404751	1	20	85	1808	0	0	6096796	5538462	6461538
	1618753	3 2	5	55 65	1844	1542	1723 0	6503355	6461539	7384615
	884478	1	12 16	65 80	1652 1508	1993 0	0	8127217 9015340	7384616 8307693	8307692 9230769
	413467	3	6	60	1671	1584	1651	9430315	9230770	10153846
	1070128	2	14	95	1091	1091	0	10505349	10153847	11076923
	1005555	2	20	65	1370	1721	0	11513086	11076924	12000000
	ber of pulses in	n waveform = 2	25				Ť	11010000	110.0021	12000000
				Type	5 Radar W	laveform	16			
				турс .	i Nadai Vi	aveloiiii	_10			
of Bur	Num = 16 rsts = 10									
t Inte	erval (us)= 1200	0000								
t	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)		End Burst Interval(us)
	1046861	2	17	75	1774	1601	0	1046861	0	1199999
	1341692									
	348406	3	10	95	1131	1920	1622	2391928	1200000	2399999
	1171413	2	20	65	1195	1889	0	2745007	2400000	3599999
	1797147	1	10	75	1594	0	0	3919504	3600000	4799999
		3	11	50	1388	1569	1040	5718245	4800000	5999999
	771898	2	17	60	1289	1415	0	6494140	6000000	7199999
	908319	1	13	90	1252	0	0	7405163	7200000	8399999
	1851580	2	9	50	1027	1435	0	9257995	8400000	9599999
		-	-							
	1021678	1	19	55	1 2 0 9	n	Π	10999135	9600000	10799999
	1021678 520509	1 3	12 5	55 60	1809 1096	0 1769	0 1399	10282135 10804453	9600000 10800000	10799999 11999999

FCC ID: 2ABLK-8X4G-1 Page Number: 74 of 114





				Type :	5 Radar W	laveform	_17			
eform Nu										
of Burs st Inter	ts = 11 val (us)= 1090	909								
вt	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)
	49011	2	16	75	1932	1992	0	49011	0	1090908
	1841397	2	10	90	1097	1857	0	1894332	1090909	2181817
	486446	2	19	90	1945	1241	0	2383732	2181818	3272726
	1244491						0			
	1094300	1	18	70	1148	0		3631409	3272727	4363635
	1666257	1	9	50	1964	0	0	4726857	4363636	5454544
	817589	1	17	80	1619	0	0	6395078	5454545	6545453
	840613	2	13	90	1971	1578	0	7214286	6545454	7636362
		2	8	90	1489	1984	0	8058448	7636363	8727271
	1084282	3	14	100	1495	1364	1933	9146203	8727272	9818180
	1069090	2	20	80	1396	1115	0	10220085	9818181	10909089
	1074154	3	13	50	1532	1545	1947	11296750	10909090	11999998
	r of pulses in	waveform = 2	21		*****		~ * * 1			
****	**********			******	*******	**				
				Type	5 Radar W	/aveform	_18			
form Nu	m = 18									
of Burs t Inter t	ts = 17 val (us)= 705: Off Time	882 #	Chia	PW	Pul == 1	Pulse 2	Pulse 3	Stant Loc	Stant Bungt	End Burst
t	(us) 459775	Pulses	Chirp (MHz)	(us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us	) Interval(u
	602436	3	20	55	1934	1105	1473	459775	0	705881
	680252	2	13	80	1461	1109	0	1066723	705882	1411763
	537119	3	15	80 100	1852 1501	1677 1630	1467 1462	1749545	1411764 2117646	2117645 2823527
	1140687	1	18 15	90	1024	0	0	2291660 3436940	2823528	2823527 3529409
	135215	1	15	100	1310	0	0	3573179	3529410	4235291
	976692	2	18	75	1527	1251	0	4551181	4235292	4941173
	892806	3	16	70	1149	1623	1489	5446765	4941174	5647055
	609488 781191	2	6	60	1788	1992	0	6060514	5647056	6352937
	781191 881479	2	17	75	1963	1274	0	6845485	6352938	7058819
	394471	1	8	100	1781	0	0	7730201	7058820	7764701
	951088	2	11	60	1210	1276	0	8126453	7764702	8470583
	329335	3	20 7	65	1321	0	0	9080027	8470584	9176465
	734913	3	7 14	90 60	1100 1113	1718 1797	1170 1888	9410683 10149584	9176466 9882348	9882347 10588229
	737898	1	10	85	1389	0	0	10149584	10588230	11294111
	794405	1	9	50	1730	0	0	11688074	11294112	11294111
l numbe:	r of pulses in	n waveform = :	34				-			
				Type	5 Radar W	/aveform	_19			
form Nur	ts = 14									
t Interv	val (us)= 8571 Off Time	#	Chirp (MHz)	PW	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst I	End Burst Interval(us)
	(us) 551742	Pulses		(us)						
	1142871	3	8	75	1710	1711	1660	551742	0	857142 1714285
	461501	1 3	14 15	100 55	1306 1839	0 1552	0 1210	1699694 2162501	857143 1714286	1714285 2571428
	815887	2	9	100	1839	1219	0	2982989	2571429	3428571
	534816	3	9 15	95	1463	1619	1627	2982989 3520061	3428572	4285714
	1595696	2	6	95 65	1212	1739	0	5120466	3428572 4285715	5142857
	522193	2	7	80	1212	1739	0	5645610	4285715 5142858	6000000
	987987	1	5	55	1442	0	0	6636686	6000001	6857143
	598920	2	9	65	1442	1950	0	7237048	6857144	7714286
	1049106	3	17	70	1429	1812	1473	8289533	7714287	8571429
	316651		8	70 85	1004	0	0	8289533 8610473	8571430	9428572
	1522040	1		85 65	1035	0	0	8610473 10133548	9428573	10285715
	816038		18 13	60	1564	0	0	10133548	10285716	11142858
							U	10301150	10200110	11142000
	579851	2	14	100	1481	1662	0	11532279	11142859	12000001

FCC ID: 2ABLK-8X4G-1 Page Number: 75 of 114





				Type :	5 Radar V	Vaveform	_20			
weform N um of Bur	Num = 20 rsts = 15 erval (us)= 800	000								
rst inte 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 Burs Interval(u	t End Burst s) Interval(us
	149161	3	18	100	1274	1539	1870	149161	0	799999
:	1401848	1	9	55	1365	0	0	1555692	800000	1599999
	366532	3	13	80	1616	1186	1654	1923589	1600000	2399999
	1244728	2	17	75	1639	1110	0	3172773	2400000	3199999
	319380	1	16	100	1399	0	0	3494902	3200000	3999999
	1089444	3	16	55	1031	1391	1313	4585745	4000000	4799999
	411041	2	14	75	1075	1262	0	5000521	4800000	5599999
	844553	2	19	70	1951	1002	0	5847411	5600000	6399999
	1240771	2	14	65	1567	1214	0	7091135	6400000	7199999
)	511565	1	8	100	1688	0	0	7605481	7200000	7999999
L	826761	2	7	70	1922	1412	0	8433930	8000000	8799999
2	659010	1	19	80	1112	0	0	9096274	8800000	9599999
3	543538	3	9	75	1103	1563	1325	9640924	9600000	10399999
4	1123144	2	6	75	1312	1779	0	10768059	10400000	11199999
5	677585	2	9	70	1439	1426	0	11448735	11200000	11999999
tal numb	er of pulses i	n waveform = *********	30 ***********	***************						
				Type	5 Radar V	<b>Vaveform</b>	1_21			
eform Nu	sts = 16									
st Inter st	rval (us)= 7500 Off Time	00	Chirp	PW	Pulse 1	Pulse 2	Pulse 3	Start Loc	Start Burst	End Burst
-	(us) 148735	Pulses	Chirp (MHz)	(us)	Pri(us)	Pulse 2 Pri(us)	Pri(us)	(us)	Interval(us)	Interval (us)
	857808	2	8	80	1208	1134	0	148735	0	749999
	839765	3	16	65	1612	1024	1604	1008885	750000	1499999
	502052	3	13	75	1429	1369	1994	1852890	1500000	2249999
	647174	3	7	50	1947	1639	1778	2359734	2250000	2999999
	739571	2	15	55	1055	1822	0	3012272	3000000	3749999
	1393679	1	6	100	1001	О	0	3754720	3750000	4499999
	234391	1	10	75	1266	0	0	5149400	4500000	5249999
	696549	2	12	90	1173	1617	0	5385057	5250000	5999999
	689914	3	12	95	1081	1690	1447	6084396	6000000	6749999
	1055228	1	15	70	1702	0	0	6778528	6750000	7499999
	950120	3	12	60	1019	1631	1104	7835458	7500000	8249999
	318817	1	13	90	1669	0	0	8789332	8250000	8999999
	1209327	3	10	100	1942	1768	1742	9109818	9000000	9749999
	321594	3	5	50	1379	1083	1966	10324597	9750000	10499999
	1099459	3	18	90	1398	1277	1948	10650619	10500000	11249999
al numbe	er of pulses in	1 waveform = 3!	8 5 *************	65 ********	1356	•	0	11754701	11250000	11999999
				Type	5 Radar V	<b>Vaveform</b>	1_22			
eform N	um = 22 sts = 13									
st Inter	rval (us)= 9230			THE	n	D.1 .	D 1 0		2	P 1 P
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)
	12253	1	11	85	1903	0	0	12253	0	923076
	1786765	3	19	80	1743	1788	1410	1800921	923077	1846153
	66850	1	20	60	1760	0	0	1872712	1846154	2769230
	1559187									
	415063	3	18	50	1898	1274	1844	3433659	2769231	3692307
	1457055	1	10	80	1189	0	0	3853738	3692308	4615384
	263095	3	9	65	1284	1085	1246	5311982	4615385	5538461
		1	8	75	1140	0	0	5578692	5538462	6461538
	1595952	3	9	50	1564	1925	1442	7175784	6461539	7384615
	963617	1	14	65	1695	0	0	8144332	7384616	8307692
	432482	3	13	80	1887	1030	1655	8578509	8307693	9230769
	1377032	3								
		ی	10	55	1928	1729	1161	9960113	9230770	10153846
	872752									
	872752 1141371	3	6 5	85 85	1062 1519	1968 1030	1821 1906	10837683 11983905	10153847 11076924	11076923 12000000

FCC ID: 2ABLK-8X4G-1 Page Number: 76 of 114





				Type 5	Radar W	aveform	_23			
aveform Num um of Burst	= 23									
irst Interv	al (us)= 6315 Off Time (us)	79	Chirp (MHz)	₽₩	Pulse 1	Pulse 2	Pulse 3	Start Loc	Start Burst	End Burst
1	(us) 186711	Pulses 2	(MHz) 8	(us) 70	Pri(us) 1380	Pri (us) 1975	Pri(us)	(us) 186711	Interval (us)	Interval (us) 631578
2	562180	3	10	55	1028	1025	1034	752246	631579	1263157
	1124513	2	11	95	1118	1826	0	1879846	1263158	1894736
	540242	2	13	80	1578	1223	0	2423032	1894737	2526315
	516036 411089	3	10	80	1336	1011	1654	2941869	2526316	3157894
	902890	1	8	75	1079	0	0	3356959	3157895	3789473
	757777	3	15	75	1146	1237	1759	4260928	3789474	4421052
	239167	1	13	95	1722	0	0	5022847	4421053	5052631
	744340	1	18	100	1584	0	0	5263736	5052632	5684210
o 1	782270	3	9	100 85	1749	1374	1458 1287	6009660 6796511	5684211 6315790	6315789 6947368
2	442282	3	5	90	1936 1712	1383 1423	1871	7243399	6947369	7578947
3	510855	3	16	90	1729	1515	1232	7759260	7578948	8210526
4	720663	1	8	60	1462	0	0	8484399	8210527	8842105
5	894638	2	19	70	1605	1054	0	9380499	8842106	9473684
5	249766	2	11	65	1365	1244	0	9632924	9473685	10105263
7	579412 602800	1	13	75	1801	0	0	10214945	10105264	10736842
3	1143413	1	12	80	1890	0	0	10819546	10736843	11368421
9 tal number		1 waveform = 3	20 B	75	1104 ****************	0	0	11964849	11368422	12000000
<del></del>	<del>1000000000000000000000000000000000000</del>	*******	*****		<del> </del>	*				
				Type 5	Radar W	aveform	_24			
eform Num										
rst Interva	al (us)= 1200 Off Time	000	Chirp	PW	Pulse 1	Pulse 2	Pulse 3	Start Loc	Start Burst	End Burst
51	(us)	Pulses	(MHz)	(us)	Pri(us)	Pri(us)	Pri(us)	(us)	Interval (us)	Interval (us)
	832428		90	EO	1100	1007	1010	020400	0	1100000
	1170226	3	20	50	1190	1287	1819	832428	0	1199999
		3	13	90	1854	1230	1000	2006950	1200000	2399999
	492340	2	20	85	1068	1404	0	2503374	2400000	3599999
	1892747	2	20	60	1008	1404	· ·	2303314	2400000	3333333
	000074	2	5	65	1984	1665	0	4398593	3600000	4799999
	906374	2	19	80	1157	1506	0	5308616	4800000	5999999
	742906									
	1209094	1	19	80	1331	0	0	6054185	6000000	7199999
		3	17	85	1765	1956	1830	7264610	7200000	8399999
	2279803	1	14	75	1216	0	0	9549964	8400000	9599999
	56047	1	14	15	1316	U	U	3043304	0400000	3033333
		2	18	60	1200	1731	0	9607327	9600000	10799999
)	1402677	3	7	85	1830	1148	1707	11012935	10800000	11999999
al number		waveform = 2	2		****		1101	11012300	10000000	11333333
							05			
				Type 5	Radar W	avetorm	_25			
m of Burst	s = 25 s = 14 al (us)= 857:	143							Start Burst	End Burst
m of Burst rst Interv	s = 14 al (us)= 857: Off Time	#	Chirp	PW	Pulse 1	Pulse 2	Pulse 3	Start Loc		
m of Burst rst Interv	s = 14 al (us)= 857:	# Pulses	Chirp (MHz)	(us)	Pri(us)	Pri(us)	Pri(us)	(us)	Interval (us)	) Interval(
n of Burst rst Interv	s = 14 al (us)= 857; Off Time (us) 642231	#	Chirp (MHz) 18	PW (us) 65	Pulse 1 Pri(us) 1943	Pulse 2 Pri(us)	Pulse 3 Pri(us) 0	Start Loc (us) 642231	Interval (us)	) Interval(1 857142
n of Burst rst Interv	s = 14 al (us)= 857; Off Time (us) 642231 318944	# Pulses		(us)	Pri(us)	Pri(us)	Pri(us)	(us)	Interval (us)	) Interval(
m of Burst rst Interv	s = 14 ral (us)= 857: Off Time (us) 642231 318944 1305770	# Pulses 1	18	(us) 65	Pri (us) 1943	Pri (us) 0	Pri (us) 0	(us) 642231	Interval (us)	) Interval(1 857142
n of Burst rst Interv	s = 14 ral (us)= 857: Off Time (us) 642231 318944 1305770 393626	# Pulses 1 2	18 16	(us) 65 80	Pri (us) 1943 1194	Pri(us) 0 1033	Pri (us) 0 0	(us) 642231 963118	Interval (us) 0 857143	) Interval (1 857142 1714285
m of Burst rst Interv	s = 14 al (us) = 857: Off Time (us) 642231 318944 1305770 393626 937183	# Pulses 1 2 3	18 16 9	(us) 65 80 85	Pri(us) 1943 1194 1470	Pri(us) 0 1033 1845	Pri(us) 0 0 1646	(us) 642231 963118 2271115	Interval (us) 0 857143 1714286	9 Interval (1 857142 1714285 2571428
m of Burst rst Interv	s = 14 ral (us)= 857: Off Time (us) 642231 318944 1305770 393626	# Pulses  1 2 3 3 3	18 16 9 11 20	(us) 65 80 85 70 95	Pri (us) 1943 1194 1470 1523 1930	Pri(us) 0 1033 1845 1091 1775	Pri(us) 0 0 1646 1251 1303	(us) 642231 963118 2271115 2669702 3610750	Interval (us)  0  857143  1714286  2571429  3428572	9 Interval (1 857142 1714285 2571428 3428571 4285714
m of Burst rst Interv	s = 14 al (us) = 857: Off Time (us) 642231 318944 1305770 393626 937183	#Pulses  1  2  3  3  3	18 16 9 11 20 14	(us) 65 80 85 70 95	Pri (us) 1943 1194 1470 1523 1930 1591	Pri(us) 0 1033 1845 1091 1775	Pri(us) 0 0 1646 1251 1303 1157	(us) 642231 963118 2271115 2669702 3610750 4722628	Interval (us)  0  857143  1714286  2571429  3428572  4285715	857142 1714285 2571428 3428571 4285714 5142857
m of Burst rst Interv	s = 14 al (us) = 857: Off Time (us) 642231 318944 1305770 393626 937183 1106870	# Pulses 1 2 3 3 3 3 1	18 16 9 11 20 14 17	(us) 65 80 85 70 95 75	Pri(us) 1943 1194 1470 1523 1930 1591	Pri(us) 0 1033 1845 1091 1775 1818	Pri(us) 0 0 1646 1251 1303 1157	(us) 642231 963118 2271115 2669702 3610750 4722628 5408346	Interval (us) 0 857143 1714286 2571429 3428572 4285715 5142858	857142 1714285 2571428 3428571 4285714 5142857 6000000
m of Burst rst Interv rst	s = 14 and (us) = 857:  Off Time (us) 642231 318944 1305770 393626 937183 1106870 681152	# Pulses  1  2  3  3  3  1	18 16 9 11 20 14 17	(us) 65 80 85 70 95 75 100	Pri(us) 1943 1194 1470 1523 1930 1591 1473	Pri(us) 0 1033 1845 1091 1775 1818 0 1088	Pri(us) 0 0 1646 1251 1303 1157 0	(us) 642231 963118 2271115 2669702 3610750 4722628 5408346 6653783	Interval (us) 0 857143 1714286 2571429 3428572 4285715 5142858 6000001	Netterval (1 857142 1714285 2571428 3428571 4285714 5142857 6000000 6857143
m of Burst rst Interv rst	s = 14 and (us) = 857: Off Time (us) 642231 318944 1305770 393626 937183 1106870 681152 1243964 258287	# Pulses  1  2  3  3  3  1  2  1	18 16 9 11 20 14 17	(us) 65 80 85 70 95 75	Pri(us) 1943 1194 1470 1523 1930 1591	Pri(us) 0 1033 1845 1091 1775 1818	Pri(us) 0 0 1646 1251 1303 1157	(us) 642231 963118 2271115 2669702 3610750 4722628 5408346	Interval (us) 0 857143 1714286 2571429 3428572 4285715 5142858	857142 1714285 2571428 3428571 4285714 5142857 6000000
m of Burst rst Interv rst	s = 14 a) (us) = 857: Off Time (us) 642231 318944 1305770 393626 937183 1106870 681152 1243964 258287 843830	# Pulses  1  2  3  3  3  1	18 16 9 11 20 14 17	(us) 65 80 85 70 95 75 100	Pri(us) 1943 1194 1470 1523 1930 1591 1473	Pri(us) 0 1033 1845 1091 1775 1818 0 1088	Pri(us) 0 0 1646 1251 1303 1157 0	(us) 642231 963118 2271115 2669702 3610750 4722628 5408346 6653783	Interval (us) 0 857143 1714286 2571429 3428572 4285715 5142858 6000001	Netterval (1 857142 1714285 2571428 3428571 4285714 5142857 6000000 6857143
m of Burst rst Interv rst	s = 14 al (us) = 857: Off Time (us) 642231 318944 1305770 393626 937183 1106870 681152 1243964 258287 843830 1458161	# Pulses  1  2  3  3  3  1  2  1	18 16 9 11 20 14 17 15	(us) 65 80 85 70 95 75 100 65	Pri(us) 1943 1194 1470 1523 1930 1591 1473 1315	Pri(us) 0 1033 1845 1091 1775 1818 0 1088	Pri(us) 0 0 1646 1251 1303 1157 0 0	(us) 642231 963118 2271115 2669702 3610750 4722628 5408346 6653783 6914473	Interval (us) 0 857143 1714286 2571429 3428572 4285715 5142858 6000001 6857144	10 Interval (4 857142 1714285 2571428 3428571 4285714 5142857 6000000 6857143 7714286
m of Burst rst Interv rst	s = 14 and (us) = 857: Off Time (us)   642231 318944 1305770 393626 937183 1106870 681152 1243964 258287 843830 1458161 949298	# Pulses  1  2  3  3  3  1  2  1  2	18 16 9 11 20 14 17 15 9	(us) 65 80 85 70 95 75 100 65 90 50	Pri(us) 1943 1194 1470 1523 1930 1591 1473 1315 1936 1006	Pri (us) 0 1033 1845 1091 1775 1818 0 1088 0 1999	Pri (us) 0 0 1646 1251 1303 1157 0 0 0 1639	(us) 642231 963118 2271115 2669702 3610750 4722628 5408346 6653783 6914473 7760239	Interval (us) 0 857143 1714286 2571429 3428572 4285715 5142858 6000001 6857144 7714287	857142 1714285 2571428 3428571 4285714 5142857 6000000 6857143 7714286 8571429
vveform Num m of Burst rst Interv rst  0 1 2	s = 14 al (us) = 857: Off Time (us) 642231 318944 1305770 393626 937183 1106870 681152 1243964 258287 843830 1458161	# Pulses  1  2  3  3  3  1  2  1  2  1	18 16 9 11 20 14 17 15 9 16 6	(us) 65 80 85 70 95 75 100 65 90 50	Pri(us) 1943 1194 1470 1523 1930 1591 1473 1315 1936 1006 1465	Pri (us) 0 1033 1845 1091 1775 1818 0 1088 0 1999	Pri (us) 0 0 1646 1251 1303 1157 0 0 0 1639	(us) 642231 963118 2271115 2669702 3610750 4722628 5408346 6653783 6914473 7760239 9223044	Interval (us) 0 857143 1714286 2571429 3428572 4285715 5142858 6000001 6857144 7714287 8571430	857142 17114285 2571428 3428571 4285714 5142857 600000 6857143 7714286 8571429 9428572





				Туре	5 Radar \	<i>N</i> aveforr	n_26			
eform Num of Burst	n = 26 ts = 17									
st Interv	ral (us)= 7058 Off Time	#	Chirp (MHz)	PW	Pulse 1	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc	Start Burst Er	d Burst
	(us) 521893	Pulses 1	(MHz)	(us) 55	Pri (us) 1218	Pri(us)	O Pri(us)	(us) 521893		terval (us) 05881
	357191	2	20	50	1424	1980	0	880302		411763
	1115701	3	11	70	1019	1526	1488	1999407		117645
	745739	1	20	55	1470	0	0	2749179		823527
	631706	1	15	90	1549	0	О	3382355		529409
	335427	3	20	90	1136	1797	1501	3719331	3529410 4	235291
	594795 640097	2	15	70	1524	1247	0	4318560	4235292 4	941173
	1379621	1	12	90	1898	0	0	4961428	4941174 5	647055
	18852	3	12	70	1457	1706	1288	6342947	5647056 6	352937
	1198567	1	12	50	1821	0	0	6366250		058819
	700103	2	9	90	1927	1720	0	7566638		764701
	280191	3	5	70	1039	1016	1305	8270388	7764702	470583
	1213490	3	19	50	1231	1252	1978	8553939		176465
	706098	3	8	65	1698	1774	1709	9771890		882347
	343539	1	10	60	1892	0	0	10483169		0588229
	1038151	3	16	65 75	1344	1600	1680	110828600		1294111
l number	of pulses in	2 waveform = 3! ******	10 5 *******	75 *******	1873	1003	0	11871375	11294112 1	1999993
							07			
				туре	5 Radar \	vavetori	n_2/			
eform Nu of Burs	ts = 15	000								
st inter st	val (us)= 800 Off Time	#	Chirm	PW	Pulce 1	Pulse 2	Pulse 3	Start Los	Stant Bungt	End Burgs
31	(us) 514338		Chirp (MHz)	(us)	Pulse 1 Pri(us)	Pri(us)	Pri(us)	Start Loc (us)	Start Burst Interval(us	End Burst Interval(us)
	727343	2	20	95	1192	1480	0	514338	0	799999
	1142339	1	14	70	1080	0	0	1244353	800000	1599999
	247096	2	15	85	1555	1223	0	2387772	1600000	2399999
	1331544	1	15	85	1849	0	0	2637646	2400000	3199999
	445126	3	6	65	1795	1028	1306	3971039	3200000	3999999
	822943	1	18	50	1374	0	0	4420294	4000000	4799999
	686124	2	19	70	1761	1162	0	5244611	4800000	5599999
	592074	1	11	95	1854	0	0	5933658	5600000	6399999
	1129475	2	13	75	1189	1013	0	6527586	6400000	7199999
	901627	1	18	90	1975	0	0	7659263	7200000	7999999
	412994	2	17	80	1416	1384	0	8562865	8000000	8799999
	1291866	3	13	55	1455	1105	1398	8978659	8800000	9599999
		1	8	50	1364	0	0	10274483	9600000	10399999
	835329 521102	1	12	75	1723	0	0	11111176	10400000	11199999
al must	521102	1 n waveform =	6	50	1725	0	0	11634001	11200000	11999999
ii riumbe:	r of pulses i: *******	**********	64 *******			***				
				Type	5 Radar \	Naveforr	n 28			
eform Nu	m = 28			.,,,,,						
of Burs		3333								
st	Off Time	#	Chirp	PW	Pulse 1	Pulse 2	Pulse 3	Ştart Loc		
	(us) 162324	Pulses	(MHz)	(us)	Pri (us)	Pri (us)	Pri (us)	(us)	Interval (u	s) Interval(us
		2	15	90	1331	1390	0	162324	0	1333332
	1908703		15	75			0	2073748		
	1373680	2			1169	1539	U	2013148	1333333	2666665
		3	5	75	1260	1531	1669	3450136	2666666	3999998
	1208569	1	14	70	1881	0	0	4663165	3999999	5333331
	902888									
	1448988	3	7	70	1563	1975	1029	5567934	5333332	6666664
		1	8	85	1218	0	0	7021489	6666665	7999997
	1667430		10			1610	1070			
	1425067	3	10	95	1339	1610	1979	8690137	7999998	9333330
		2	20	75	1118	1099	0	10120132	2 9333331	10666663
		4	20							
	1579904	3	14	85	1426	1982	1910	11702253		11999996

FCC ID: 2ABLK-8X4G-1 Page Number: 78 of 114





				туре	5 Radar \	vavelor	111_23			
form Num = of Bursts:	29 = 18 (us)= 6666	367								
t (	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)
	178253	3	12	60	1545	1002	1212	178253	0	666666
	1125310	3	10	75	1219	1338	1436	1307322	666667	1333333
	263220	2	5	75	1548	1285	0	1574535	1333334	2000000
	970477	1	16	80	1345	0	0	2547845	2000001	2666667
	171258	1	11	50	1555	0	0	2720448	2666668	3333334
	688771	2	13	70	1980	1845	0	3410774	3333335	4000001
	814969	2	8	65	1913	1470	0	4229568	4000002	4666668
	533513	2	10	95	1366	1885	0	4766464	4666669	5333335
	953836	3	13	80	1731	1568	1144	5723551	5333336	6000002
	458301	2	10	75	1821	1296	0	6186295	6000003	6666669
	661030	1	18	50	1478	0	0	6850442	6666670	7333336
	558247	2	11	70	1997	1528	0	7410167	7333337	8000003
	843215	3	18	100	1233	1834	1530	8256907	8000004	8666670
	411997	2	9	70	1442	1493	0	8673501	8666671	9333337
	1056128	2	15	75	1194	1912	0	9732564	9333338	10000004
	613905	3	19	50	1603	1491	1322	10349575	10000005	10666671
	846439	1	16	60	1132	0	0	11200430	10666672	11333338
	440494	1	12	60	1956	0	0	11642056	11333339	12000005
number o	f pulses ir	1 Wavelolm	35 <del> </del>							
l number o	f pulses in	1 waverorm	<del>10                                      </del>		5 Radar \		m_30			
<del></del>	***************************************	1 waveloim	15				m_30			
orm Num =	30 = 18		35				m_30			
form Num = f Bursts = Interval	30 = 18 (us)= 6666 fff Time	67 #		Туре	5 Radar V	Wavefor	Pulse 3	Start Loc	Start Burst	End Burst
form Num = f Bursts = Interval	30 = 18 (Us)= 6666	67 # Pulses	Chirp (MHz)	Type	5 Radar \ Pulse 1 Pri (us)	Wavefor	Pulse 3 Pri(us)	(us)	Interval (us)	Interval (us)
form Num = f Bursts = Interval	30 = 18 (us)= 6666 fff Time (us)	67 # Pulses 2	Chirp (MHz)	Type	Pulse 1 Pri(us) 1035	Wavefore Pulse 2 Pri (us) 1264	Pulse 3 Pri(us)	(us) 275521	Interval (us) 0	Interval (us) 666666
form Num = f Bursts = Interval	30 = 18 (us)= 6666 fff Time (us) 275521	67  # Pulses 2 1	Chirp (MHz) 9	Type	Pulse 1 Pri(us) 1035 1538	Pulse 2 Pri (us) 1264	Pulse 3 Pri(us) 0	(us) 275521 1085354	Interval (us) 0 666667	Interval (us) 666666 1333333
orm Num = f Bursts = Interval	30 = 18 (us)= 6666 ff Time (us) 275521 807534	67  Pulses  2  1	Chirp (MHz) 9 11	Pw (us) 95 80 55	Pulse 1 Pri (us) 1035 1538 1442	Pulse 2 Pri (us) 1264 0 1502	Pulse 3 Pri(us) 0 0	(us) 275521 1085354 1755788	Interval (us) 0 666667 1333334	Interval (us) 666666 1333333 2000000
orm Num = f Bursts = Interval	30 = 18 (us)= 6666 (us)= 6666 (us)= 275521 807534 668896	67 #Pulses 2 1 2 3	Chirp (MH2) 9 11 8	Pw (us) 95 80 55 65	Pulse 1 Pri (us) 1035 1538 1442 1447	Pulse 2 Pri(us) 1264 0 0 1502 1097	Pulse 3 Pri(us) 0 0 0	(us) 275521 1085354 1755788 2459759	Interval (us) 0 666667 1333334 2000001	Interval (us) 666666 1333333 2000000 2666667
orm Num = f Bursts = Interval	30 = 18 (us)= 6666 Dff Time (us) 276521 807534 668896 701027 305540	67 # Pulses 2 1 2 3 2	Chirp (MHz) 9 11 8 15	Type  Pw (us) 95 80 55 65 75	Pulse 1 Pri(us) 1035 1538 1442 1447 1799	Pulse 2 Pri(us) 1264 0 1502 1097 1412	Pulse 3 Pri(us) 0 0 0 1395	(us) 275521 1085354 1755788 2459759 2769238	Interval (us) 0 666667 1333334 2000001 2666668	Interval (us) 666666 1333333 2000000 2666667 3333334
orm Num = f Bursts = Interval	30 18)= 6666 18)= 66666 (18)= 276521 8076521 8076534 668896 701027 305540 1187397	67 # Pulses 2 1 2 2 3 2 3	Chirp (MHz) 9 11 8 15 18	Type (us) 95 80 55 65 75 90	Pulse 1 Pri(us) 1035 1538 1442 1447 1799 1795	Pulse 2 Pri(us) 1264 0 1502 1097 1412 1864	Pulse 3 Pri(us) 0 0 0 1395 0	(us) 275521 1085354 1755788 2459759 2769238 3959846	Interval (us) 0 666667 1333334 2000001 2666668 3333335	Interval (us) 666666 1333333 2000000 2666667 3333334 4000001
orm Num = f Bursts = Interval	30 - 18 - 18) = 6666 Ff; Time 0275521 807534 668896 701027 305540 1187397 190220	67 # Pulses 2 1 2 3 2	Chirp (MHz) 9 11 8 15	Type  Pw (us) 95 80 55 65 75	Pulse 1 Pri(us) 1035 1538 1442 1447 1799	Pulse 2 Pri(us) 1264 0 1502 1097 1412	Pulse 3 Pri(us) 0 0 0 1395	(us) 275521 1085354 1755788 2459759 2769238	Interval (us) 0 666667 1333334 2000001 2666668	Interval (us) 666666 1333333 2000000 2666667 3333334
orm Num = f Bursts = Interval	30 = 18 (us) = 6666 (us) = 6666 (us) = 807534 668896 701027 305540 1187397 190220 594850	67 # Pulses 2 1 2 2 3 2 3	Chirp (MHz) 9 11 8 15 18	Type (us) 95 80 55 65 75 90	Pulse 1 Pri(us) 1035 1538 1442 1447 1799 1795	Pulse 2 Pri(us) 1264 0 1502 1097 1412 1864	Pulse 3 Pri(us) 0 0 0 1395 0	(us) 275521 1085354 1755788 2459759 2769238 3959846	Interval (us) 0 666667 1333334 2000001 2666668 3333335	Interval (us) 666666 1333333 2000000 2666667 3333334 4000001
orm Num = f Bursts = Interval	30 = 18 (us) = 6666 fff Time (us) 276521 807534 668896 701027 305540 1187397 190220 594850 590292	67 # Fulses 2 1 2 3 2 3 2 2	Chirp (MHz) 9 11 8 15 18 18	PW (us) 95 80 55 65 75 90 80	Pulse 1 Pri (us) 1035 1538 1442 1447 1799 1795 1149	Pulse 2 Pri (us) 1264 0 1502 1097 1412 1864 1947	Pulse 3 Pri(us) 0 0 0 1395 0 1360	(us) 275521 1085354 1755788 2459759 2769238 3959846 4155085	Interval (us) 0 666667 1333334 2000001 2666668 3333335 4000002	Interval (us) 666666 1333333 2000000 2666667 3333334 4000001 4666668
orm Num = f Bursts = Interval	30 - (18) - (18) = 66666 Off Time (12) 275621 807534 668396 701027 305540 1187397 190220 594850 590292 1177944	67 # Fulses 2 1 2 3 2 2 1	Chirp (MHz) 9 11 8 15 18 7 14	Pw (us) 95 80 55 65 75 90 80 80 80	Pulse 1 Pri (us) 1035 1538 1442 1447 1799 1795 1149 1330	Pulse 2 Pri (us) 1264 0 1502 1097 1412 1864 1947	Pulse 3 Pri(us) 0 0 0 1395 0 1360 0	(us) 275521 1085354 1755788 2459759 2769238 3959846 4155085 4753031	Interval (us) 0 666667 1333334 2000001 2666668 3333335 4000002 4666669	Interval (us) 666666 133333 2000000 2666667 3333334 4000001 4666668 5333335
orm Mum = f Bursts = Interval	30 (18)= 66666 (18)= 66666 (18)= 701027 3075521 807534 668396 701027 305540 1187397 190220 594850 594850 590292 1177944 528743	67 # Pulses 2 1 2 3 2 2 3 2 2 1 3	Chirp (MHz) 9 11 8 15 18 17 14	Pw (us) 95 80 55 65 75 90 80 80 55	Pulse 1 Pri (us) 1035 1538 1442 1447 1799 1795 1149 1330 1431	Pulse 2 Pri(us) 1264 0 1502 1097 1412 1864 1947 0	Pulse 3 Pri(us) 0 0 0 1395 0 1360 0	(us) 275521 1085354 1755788 2459759 2769238 3959846 4155085 4753031 5344653	Interval (us) 0 666667 1333334 2000001 2666668 333335 400002 4666669 5333336	Interval (us) 666666 133333 2000000 2666667 3333334 4000001 4666668 5333335 6000002
orm Num = f Bursts = Interval	30 = 18 (um)= 6666 (pff frime 276521 807534 668896 701027 305540 1187397 190220 594850 590292 1177944 528743 926982	67 W Pulses 2 1 2 3 2 3 2 1 3 1	Chirp (MHz) 9 11 8 15 18 18 14 14	Type  Pw (us) 95 80 55 65 75 90 80 80 85 80	Pulse 1 Pri(us) 1038 1638 1442 1447 1799 1796 1149 1330 1431 1678	Pulse 2 Pri(us) 1264 0 1502 1097 1412 1864 1947 0 1283	Pulse 3 Pri(us) 0 0 0 1395 0 1360 0 0	(us) 275521 1085364 1755788 2459759 2769238 3959846 4155085 4755031 5344653 6527051	Interval (us) 0 666667 1333334 2000001 2666668 333335 4000002 4666669 5333336 6000003	Interval (us) 666666 1333333 2000000 2666667 3333334 4000001 4666668 5333335 6000002 6666669
orm Num = f Bursts = Interval (	30 = 18 (us) = 6666 (us) = 6666 (us) = 6666 (us) = 276821	67 # Pulses 2 1 2 2 3 2 2 3 2 1 3 1 2 2	Chirp (MHz) 9 11 8 15 18 18 7 14 14 19	Fw (us) 95 80 55 80 80 80	Pulse 1 Pri(us) 1035 1538 1442 1447 1799 1795 1149 1330 1431 1678 1982	Pulse 2 Pri(us) 1264 0 1502 1097 1412 1864 1947 0 1283 0 1108	Pulse 3 Pri(us) 0 0 0 1395 0 1360 0 0 1740	(us) 275521 1085354 1755788 2459759 2769238 3959846 4155085 4753031 5344653 6527051 7057472	Interval (us) 0 666667 1333334 2000001 2666668 3333335 400002 466669 5333336 600003 6666670	Interval (us) 666666 1333333 2000000 2666667 3333334 4000001 4666668 5333335 6000002 6666669 7333336
orm Num = f Bursts = Interval (	30 = 18 (us) = 6666 fff Time (us) = 276521 807534 668896 701027 305540 1187397 190220 594850 590292 1177944 528743 926982 19878 872178	67 # Fulses 2 1 2 3 2 2 1 3 3 1 2 1 1 2 1	Chirp (MHz) 9 11 8 15 18 18 7 14 19 13	Pw (us) 95 80 55 66 75 90 80 80 55 80 80 60	Pulse 1 Pri (us) 1035 1538 1442 1447 1799 1795 1149 1330 1431 1678 1982	Pulse 2 Pri (us) 1264 0 1502 1097 1412 1864 1947 0 1283 0	Pulse 3 Pri(us) 0 0 0 1395 0 1360 0 0 1740 0	(us) 275521 1085354 1755788 2459759 2769238 3959846 4155085 4753031 5344653 6527051 7057472 7987544	Interval (us) 0 666667 133334 2000001 2666668 333335 400002 466669 533336 6000003 6666670 7333337	Interval (us) 666666 1333333 2000000 2666667 3333334 4000001 4666668 533335 6000002 6666669 7333336 8000003
orm Num = f Bursts = Interval (	30 - (18) = 66666 Off Time (18) = 866666 Off Time (18) = 275621 807534 668396 701027 305540 1187397 190220 594850 590292 1177944 528743 926982 19878 872178 591501	67 # Pulses 2 1 2 3 2 2 1 3 1 2 2 1	Chirp (MHz) 9 11 8 15 18 17 7 14 14 19 13 19 20	Pw (us) 95 80 55 65 75 90 80 80 55 80 80 60 90	Pulse 1 Pri (us) 1035 1538 1442 1447 1799 1795 1149 1330 1431 1678 1982 1832 1784	Pulse 2 Pri (us) 1264 0 1502 1097 1412 1864 1947 0 1283 0 1108	Pulse 3 Pri(us) 0 0 0 1395 0 1360 0 0 1740 0	(us) 275521 1085354 1755788 2459759 2769238 3959846 4155085 4753031 5344653 6527051 7057472 7987544 8009254	Interval (us)  0  666667  1333334  2000001  2666668  3333335  4000002  466669  5333336  600003  6666670  7333337  8000004	Interval (us) 666666 1333333 2000000 2666667 3333334 4000001 4666668 533335 6000002 6666669 7333336 8000003 8666670
Joseph Mum = of Bursts = Interval (	30 = 18 (us) = 6666 (ff f Time 275521 275521 807534 668896 701027 305540 1187397 190220 594850 590292 1177944 528743 926982 19878 872178 591501 636013	67 #Pulses 2 1 2 3 2 2 1 3 1 2 2 1 2 2 1	Chirp (MHz) 9 11 8 15 18 18 19 14 14 19 13 19 20 17	Pw (us) 95 80 55 65 75 90 80 80 60 90 60	Pulse 1 Pri (us) 1035 1538 1442 1447 1799 1795 1149 1330 1431 1678 1982 1832 1784	Pulse 2 Pri(us) 1264 0 1502 1097 1412 1864 1947 0 1283 0 1108 0	Pulse 3 Pri(us) 0 0 0 1395 0 1360 0 0 1740 0	(us) 275521 1085354 1755788 2459759 2769238 3959846 4155085 4753031 5344653 6527051 7057472 7987544 8009254 8884602	Interval (us) 0 666667 1333334 2000001 2666668 3333335 4000002 4666669 5333336 6000003 666670 7333337 8000004 8666671	Interval (us) 666666 133333 2000000 2666667 333334 4000001 4666668 533335 6000002 6666669 7333336 8000003 866670 9333337
orm Num = f Bursts = Interval (	30 - (18) = 66666 Off Time (18) = 866666 Off Time (18) = 275621 807534 668396 701027 305540 1187397 190220 594850 590292 1177944 528743 926982 19878 872178 591501	67 # Pulses 2 1 2 3 2 3 2 1 3 1 2 1 2 1 2 1	Chirp (MHz) 9 11 8 15 18 18 19 14 19 13 19 20 17	Type  Pw (us) 95 80 55 65 75 90 80 80 60 90 60	Pulse 1 Pri (us) 1035 1538 1442 1447 1799 1795 1149 1330 1431 1678 1982 1832 1784 1934	Pulse 2 Pri(us) 1264 0 1502 1097 1412 1864 1947 0 1283 0 1108 0	Pulse 3 Pri(us) 0 0 0 1395 0 1360 0 0 0 0 0	(us) 275521 1085384 1755788 2459759 2769238 3959846 4155085 4753031 5344653 6527051 7057472 7987544 8809254 8884602 9478037	Interval (us) 0 666667 1333334 2000001 2666668 333335 4000002 4666669 533336 6000003 6666670 733337 8000004 8666671 9333338	Interval (us) 666666 1333333 2000000 2666667 333334 4000001 4666668 533335 600002 666669 7333336 800003 8666670 933337



Page Number: 80 of 114



Type 6 Radar Statistical Performance

Trail #	Test Freq.	1=Detection	Trail #	Test Freq.	1=Detection
	(MHz)	0=No Detection		(MHz)	0=No Detection
1	5510	1	16	5510	1
2	5510	1	17	5510	1
3	5510	1	18	5510	0
4	5510	1	19	5510	1
5	5510	1	20	5510	0
6	5510	1	21	5510	1
7	5510	1	22	5510	1
8	5510	1	23	5510	1
9	5510	1	24	5510	1
10	5510	1	25	5510	1
11	5510	1	26	5510	0
12	5510	1	27	5510	1
13	5510	0	28	5510	1
14	5510	1	29	5510	1
15	5510	1	30	5510	1
	Det	ection Percentage	(%)		86.7%





F	Radar waveform #	1	F	Radar waveform #	2		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)		
10	5483	30	7	5493	21		
16	5496	48	10	5510	30		
17	5526	51	19	5524	57		
38	5516	114	22	5499	66		
56	5528	168	35	5525	105		
63	5517	189	41	5309	123		
68	5494	204	49	5502	147		
81	5505	243	52	5537	156		
			59	5507	177		
			64	5497	192		
			70	5528	210		
			77	5504	231		
			95	5506	285		
			97	5532	291		
F	Radar waveform #	3	Radar waveform #4				
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)		
Number	(MHz)		Number	(MHz)			
22	5506	66	2	5497	6		
45	5518	135	7	5537	21		
46	5495	138	8	5533	24		
51	5508	153	29	5527	87		
52	5497	156	45	5496	135		
59	5540	177	46	5490	138		
61	5522	183	66	5540	198		
82	5504	246	67	5494	201		
92	5514	276	70	5484	210		
			71	5517	213		
			83	5493	249		
			91	5518	273		
			92	5502	276		





F	Radar waveform #	5	F	Radar waveform #	6
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
4	5499	12	15	5533	45
20	5538	60	40	5501	120
22	5532	66	43	5529	129
37	5503	111	47	5539	141
38	5507	114	49	5488	147
58	5501	174	66	5487	198
60	5514	180	72	5522	216
69	5485	207	80	5485	240
70	5533	210	81	5519	243
76	5505	228	82	5537	246
82	5489	246	93	5525	279
90	5528	270			
95	5496	285			
98	5525	294			
F	Radar waveform #	7	F	Radar waveform #	8
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
6	5532	18	2	5480	6
15	5527	45	5	5485	15
21	5539	63	21	5528	63
60	5525	180	23	5509	69
66	5500	198	35	5521	105
126	5498	378	46	5493	138
141	5486	423	54	5536	162
171	5490	513	65	5535	195
219	5505	657	69	5533	207
282	5511	846	71	5531	213
285	5495	855	72	5514	216
			81	5518	243
			82	5497	246
			85	5532	255
			85 87	5532 5511	255 261





F	Radar waveform #	9	R	adar waveform #1	10
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
4	5513	12	0	5527	0
6	5506	18	8	5514	24
7	5510	21	58	5537	174
22	5522	66	59	5509	177
37	5504	111	64	5510	192
57	5526	171	68	5493	204
65	5537	195	69	5532	207
78	5539	234	76	5487	228
92	5487	276	77	5528	231
95	5484	285	97	5494	291
97	5529	291			
R	adar waveform #1	11	R	adar waveform #1	12
Hopping	Frequency	Pulse Start (ms)	Frequency	Hopping	Pulse Start (ms)
Number	(MHz)		(MHz)	Number	
1	5503	3	5	5484	15
5	5519	15	11	5483	33
8	5492	24	20	5489	60
12	5505	36	28	5514	84
18	5497	54	35	5519	105
28	5534	84	42	5481	126
34	5517	102	51	5504	153
41	5510	123	61	5538	183
42	5491	126	65	5506	195
47	5521	141	68	5530	204
61	5481	183	70	5503	210
69	5524	207	81	5487	243
90	5518	270	94	5482	282
94	5522	282	97	5536	291
97	5513	291			
98	5507	294			
99	5502	297			





R	adar waveform #1	13	R	adar waveform #	14
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
0	5540	0	2	5529	6
3	5480	9	9	5539	27
16	5489	48	21	5507	63
28	5517	84	24	5520	72
43	5491	129	34	5536	102
45	5488	135	35	5509	105
47	5531	141	41	5533	123
51	5516	153	51	5493	153
64	5535	192	64	5531	192
82	5490	246	70	5530	210
			84	5489	252
			95	5502	285
R	adar waveform #1	15	R	adar waveform #	16
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
1	5530	3	13	5490	39
3	5503	9	18	5497	54
4	5531	12	36	5521	108
5	5488	15	42	5507	126
18	5523	54	46	5503	138
35	5484	105	59	5492	177
40	5518	120	76	5502	228
45	5509	135	77	5483	231
58	5524	174	83	5505	249
60	5538	180	89	5520	267
65	5540	195			
89	5486	267	1		
93	5519	279	-1		
95	5495	285			





R	adar waveform #1	17	R	adar waveform #1	18
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
1	5538	3	6	5527	18
12	5535	36	12	5514	36
17	5503	51	36	5535	108
24	5487	72	40	5534	120
26	5490	78	55	5496	165
28	5514	84	66	5487	198
30	5486	90	75	5537	225
32	5502	96	90	5510	270
41	5539	123			
55	5515	165			
56	5531	168			
64	5508	192			
R	adar waveform #1	9	R	adar waveform #2	20
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
3	5534	9	3	5503	9
13	5524	39	16	5538	48
14	5505	42	18	5493	54
16	5501	48	19	5511	57
17	5494	51	22	5485	66
34	5496	102	28	5501	84
44	5539	132	34	5484	102
46	5537	138	46	5521	138
50	5511	150	51	5499	153
60	5486	180	56	5518	168
85	5512	255	60	5486	180
89	5504	267	81	5525	243
90	5489	270	89	5505	267
98	5518	294	96	5550	288
99	5502	297			





R	adar waveform #2	21	R	adar waveform #	22
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
10	5493	30	9	5519	27
17	5534	51	30	5511	90
30	5517	90	44	5515	132
33	5523	99	58	5494	174
46	5510	138	61	5522	183
52	5539	156	70	5539	210
73	5501	219	83	5496	249
81	5535	243	89	5526	267
92	5500	276	93	5504	279
97	5522	291	96	5537	288
			97	5498	291
			98	5487	294
R	adar waveform #2	23	R	adar waveform #2	24
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
10	5535	30	11	5503	33
16	5485	48	13	5533	39
19	5499	57	18	5509	54
20	5533	60	19	5491	57
26	5524	78	27	5496	81
28	5508	84	28	5527	84
31	5481	93	34	5525	102
33	5534	99	58	5531	174
38	5512	114	65	5492	195
44	5497	132	82	5522	246
45	5483	135	83	5500	249
46	5526	138	87	5497	261
51	5519	153	89	5502	267
65	5529	195	93	5493	279
97	5517	291	94	5499	282
			96	5530	288
			97	5534	291





R	adar waveform #2	25	R	adar waveform #2	26
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
10	5539	30	4	5498	12
20	5519	60	16	5532	48
34	5488	102	27	5495	81
40	5480	120	28	5482	84
42	5526	126	30	5497	90
59	5501	177	39	5528	117
64	5517	192	51	5519	153
65	5491	195	67	5520	201
68	5524	204	79	5493	237
74	5527	222	83	5499	249
83	5528	249	90	5489	270
85	5532	255	95	5527	285
R	adar waveform #2	27	R	adar waveform #2	28
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
0	5496	0	0	5528	0
7	5487	21	3	501	9
31	5519	93	12	5532	36
36	5492	108	19	5497	57
41	5530	123	25	5489	75
51	5531	153	36	5488	108
69	5509	207	46	5486	138
83	5538	249	52	5498	156
84	5480	252	53	5482	159
86	5536	258	82	5539	246
97	5512	291			



Page Number: 88 of 114



R	adar waveform #2	29	R	adar waveform #3	30
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
6	5507	18	4	5487	12
17	5532	51	9	5499	27
23	5492	69	13	5507	39
25	5501	75	16	5518	48
28	5531	84	19	5533	57
32	5510	96	22	5534	66
43	5483	129	48	5524	144
45	5526	135	53	5496	159
54	5528	162	55	5520	165
67	5506	201	64	5512	192
71	5480	213	68	5486	204
75	5514	225	79	5501	237
80	5486	240	83	5531	249
95	5499	285	91	5491	273
98	5525	294	94	5494	282





For 802.11ac-VHT80

Type 1 Radar Statistical Performance

Trail #	Test Freq.	Pulse Width	PRI (us)	Pulses / Burst	1=Detection
	(MHz)	(us)			0=No Detection
1	5530	1	1428	18	1
2	5530	1	1428	18	1
3	5530	1	1428	18	1
4	5530	1	1428	18	1
5	5530	1	1428	18	1
6	5530	1	1428	18	1
7	5530	1	1428	18	1
8	5530	1	1428	18	1
9	5530	1	1428	18	1
10	5530	1	1428	18	1
11	5530	1	1428	18	1
12	5530	1	1428	18	1
13	5530	1	1428	18	1
14	5530	1	1428	18	1
15	5530	1	1428	18	1
16	5530	1	1428	18	1
17	5530	1	1428	18	1
18	5530	1	1428	18	1
19	5530	1	1428	18	1
20	5530	1	1428	18	1
21	5530	1	1428	18	1
22	5530	1	1428	18	1
23	5530	1	1428	18	1
24	5530	1	1428	18	1
25	5530	1	1428	18	1
26	5530	1	1428	18	1
27	5530	1	1428	18	1
28	5530	1	1428	18	1
29	5530	1	1428	18	1
30	5530	1	1428	18	1
	Det	ection Percentage	(%)		100%





Type 2 Radar Statistical Performance

Trail #	Test Freq.	Pulse Width	PRI (us)	Pulses / Burst	1=Detection
	(MHz)	(us)			0=No Detection
1	5530	1.2	193	25	1
2	5530	2.9	215	28	1
3	5530	1.4	155	26	1
4	5530	1.1	192	28	1
5	5530	2.1	216	24	1
6	5530	1.6	181	28	1
7	5530	1.6	195	29	1
8	5530	2.5	168	25	1
9	5530	5.0	228	28	1
10	5530	4.3	228	24	1
11	5530	2.7	180	24	1
12	5530	1.7	216	23	1
13	5530	2.3	195	23	1
14	5530	2.2	199	28	1
15	5530	2.3	207	29	1
16	5530	4.4	187	23	1
17	5530	1.1	158	24	1
18	5530	3.8	156	24	1
19	5530	1.2	158	28	1
20	5530	4.8	219	27	1
21	5530	2.2	169	27	1
22	5530	2.7	192	26	1
23	5530	4.2	192	28	1
24	5530	2.5	150	25	1
25	5530	1.4	157	23	1
26	5530	3.4	155	27	1
27	5530	4.6	180	23	1
28	5530	3.4	159	27	1
29	5530	3.0	193	27	1
30	5530	2.7	221	23	1
	Det	ection Percentage	(%)		100%





Type 3 Radar Statistical Performance

Trail #	Test Freq.	Pulse Width	PRI (us)	Pulses / Burst	1=Detection
	(MHz)	(us)			0=No Detection
1	5530	6.8	471	16	1
2	5530	9.6	340	18	1
3	5530	6.9	392	18	1
4	5530	7.9	366	17	1
5	5530	9.3	297	17	1
6	5530	7.0	480	16	1
7	5530	9.6	294	18	1
8	5530	9.9	296	17	1
9	5530	7.9	430	16	1
10	5530	7.7	385	17	1
11	5530	9.8	418	16	1
12	5530	8.2	362	17	1
13	5530	9.3	366	17	1
14	5530	6.4	259	16	1
15	5530	7.1	316	16	1
16	5530	6.6	350	16	1
17	5530	6.4	282	17	1
18	5530	9.6	252	16	1
19	5530	6.3	472	16	1
20	5530	7.1	272	17	1
21	5530	6.9	483	17	1
22	5530	7.8	414	18	1
23	5530	6.9	480	17	1
24	5530	6.0	477	17	1
25	5530	6.7	450	17	1
26	5530	9.0	317	17	1
27	5530	9.7	460	17	1
28	5530	6.8	379	16	1
29	5530	8.9	312	18	1
30	5530	8.6	330	18	1
	Det	ection Percentage	(%)	•	100%



Type 4 Radar Statistical Performance

Trail #	Test Freq.	Pulse Width	PRI (us)	Pulses / Burst	1=Detection
	(MHz)	(us)			0=No Detection
1	5530	13.2	494	13	1
2	5530	15.1	329	15	1
3	5530	16.1	494	13	1
4	5530	18.7	261	12	1
5	5530	18.1	421	12	1
6	5530	17.7	446	12	1
7	5530	12.7	435	16	1
8	5530	17.5	392	16	1
9	5530	15.6	268	16	1
10	5530	11.4	449	12	1
11	5530	18.0	301	15	1
12	5530	16.2	349	12	1
13	5530	16.5	354	15	1
14	5530	15.1	322	12	1
15	5530	17.0	264	12	1
16	5530	11.0	486	15	1
17	5530	13.5	391	14	1
18	5530	18.9	322	12	1
19	5530	11.4	375	16	1
20	5530	16.1	340	16	1
21	5530	19.7	315	12	1
22	5530	12.4	385	15	1
23	5530	12.5	467	12	1
24	5530	18.5	456	15	1
25	5530	13.8	313	14	1
26	5530	15.8	468	12	1
27	5530	19.5	295	13	1
28	5530	14.9	317	12	1
29	5530	18.9	427	15	1
30	5530	19.5	341	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-1 Page Number: 92 of 114





Type 5 Radar Statistical Performance

Trail #	Test Freq.	1=Detection	Trail #	Test Freq.	1=Detection
	(MHz)	0=No Detection		(MHz)	0=No Detection
1	5530	1	16	5530	1
2	5530	1	17	5530	1
3	5530	1	18	5530	1
4	5530	1	19	5530	1
5	5530	1	20	5530	1
6	5530	1	21	5530	1
7	5530	1	22	5530	1
8	5530	1	23	5530	1
9	5530	1	24	5530	1
10	5530	1	25	5530	1
11	5530	1	26	5530	1
12	5530	1	27	5530	1
13	5530	1	28	5530	1
14	5530	1	29	5530	1
15	5530	1	30	5530	1
	Det	ection Percentage	(%)		100%

Type 5 Radar Waveform_1										
	Num = 1 rsts = 11 erval (us)= 1090	1909								
rst	Off Time (us) 777079	# 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)
	517623	3	17	60	1890	1967	1014	777079	0	1090908
		1	6	70	1686	0	0	1299573	1090909	2181817
	1590422	2	8	80	1463	1292	0	2891681	2181818	3272726
	505660	3	5	85	1147	1155	1185	3400096	3272727	4363635
	1589921	3	13	65	1187	1020	1197	4993504	4363636	5454544
	760503	3	6	95	1126	1477	1823	5757411	5454545	6545453
	1177706	2	19	65	1879	1936	0	6939543	6545454	7636362
	1163513	3	11	55	1060	1277	1044	8106871	7636363	8727271
	1691885	2	14	70	1663	1185	0	9802137	8727272	9818180
0	609801 839020	1	18	65	1545	0	0	10414786	9818181	10909089
1	er of pulses in	3	15	90	1619	1495	1841	11255351	10909090	11999998

FCC ID: 2ABLK-8X4G-1 Page Number: 93 of 114





				Тур	e 5 Radar	Wavefo	rm_2			
reform	Num = 2 rsts = 13									
rst Int	erval (us)= 9230	#	Chirp	PW	Pulse 1	Pulse 2	Pulse 3	Start Loc	Start Burs	t End Burst
<b></b>	(us) 633971	Pulses	Chirp (MHz)	(us)	Pri(us)	Pri(us)	Pri(us)	(us)	Interval (us	s) Interval(us)
1	589609	3	16	95	1901	1519	1659	633971	0	923076
2	967674	3	7	95	1912	1736	1571	1228659	923077	1846153
3	960921	3	11	95	1956	1876	1905	2201552	1846154	2769230
4	1052436	2	10	60	1549	1865	0	3168210	2769231	3692307
5	610068	3	6	50	1763	1571	1152	4224060	3692308	4615384
6	891396	1	8	70	1609	0	0	4838614	4615385	5538461
7	766955	1	10	80	1322	0	0	5731619	5538462	6461538
В	1353494	1	9	90	1229	0	0	6499896	6461539	7384615
9	685506	1	17	60	1408	0	0	7854619	7384616	8307692
10	1307890	2	19	55	1835	1081	0	8541533	8307693	9230769
11	359584	3	12	80	1938	1844	1133	9852339	9230770	10153846
12	1312947	2	15	85	1803	1441	0	10216838	10153847	11076923
13 otal numi	ber of pulses in	3 n waveform = 2	12 28	90	1583	1237	1145	11533029	11076924	12000000
				*****	******************	kokok				
				Тур	e 5 Radar	Wavefo	rm_3			
aveform um of Bu	Num = 3 rsts = 12 erval (us)= 100	0000								
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	802195	2	13	80	1452	1741	0	802195	0	999999
2	1165245	2	15	80	1913	1167	0	1970633	1000000	1999999
3	97341	1	18	55	1057	0	0	2071054	2000000	2999999
4	1009725	1	11	65	1559	0	0	3081836	3000000	3999999
5	1309680	2	10	95	1354	1101	0	4393075	4000000	4999999
6	801523	1	15	85	1568	0	0	5197053	5000000	5999999
7	1562438	3	10	85	1726	1877	1214	6761059	6000000	6999999
8	1024049	2	20	90	1727	1248	0	7789925	7000000	7999999
9	886312	2	8	90	1591	1115	0	8679212	8000000	8999999
10	1172458	3	15	70	1971	1875	1587	9854376	9000000	9999999
11	1094647	3	6	65	1486	1534	1050	10954456	10000000	10999999
	197755	2	16	70	1036	1910	0	11156281	11000000	11999999
12			24					2220000	2200000	2200000
12 otal num	ber of pulses in	n waveform = 2 k************************************	eskojeskojeskojeskojeskojeskoje							
otal num	ber of pulses in	n waveform = 2	*******			Wavefo	rm 4			
Cotal num	**************************************	n waveform = 2			e 5 Radar	Wavefo	rm_4			
otal num ********  aveform N um of Bun urst Inte	hum = 4 sts = 11 rrval (us)= 1090	909		Тур	e 5 Radar					
otal num	Num = 4 Sts = 11 rrval (us)= 1090 Off Time (us)	*****	Chirp (MHz)			Wavefo	rm_4	Start Loc	Start Burst Interval(us)	End Burst Interval(us)
otal num ********  aveform N um of Bun urst Inte	######################################	909		Type	9 5 Radar	Pulse 2	Pulse 3			End Burst Interval(us) 1090908
otal num ********  nveform 1 m of Bun urst Inte	######################################	909 # Pulses	Chirp (MHz)	Type	Pulse 1 Pri (us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	(us)	Interval (us)	Interval (us)
otal num *********  aveform N um of Bun urst Inte	Aum = 4 sts = 11 rrval (us)= 1090 Off Time (us) 247181 1063120 1168786	909 # Pulses	Chirp (MHz)	Type  PW (us) 65	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us) 0	(us) 247181	Interval (us) 0	Interval (us) 1090908
otal num *********  weform N m of Bu rrst Inte	######################################	909 # Pulses 1 2	Chirp (MHz) 14 14	Type  PW (us) 65 95 75	Pulse 1 Pri(us) 1742 1588 1498	Pulse 2 Pri(us) 0 1533 1873	Pulse 3 Pri(us) 0 0	(us) 247181 1312043 2483950	Interval (us) 0 1090909 2181818	Interval (us) 1090908 2181817 3272726
otal num **********  aveform Num of Bun rrst Inte	Aum = 4 sts = 11 rrval (us)= 1090 Off Time (us) 247181 1063120 1168786	909 # Pulses 1 2 3	Chirp (MHz) 14 14 9	PW (us) 65 95 75 55	Pulse 1 Pri(us) 1742 1588 1498 1953	Pulse 2 Pri(us) 0 1533 1873	Pulse 3 Pri(us) 0 0 1854 1035	(us) 247181 1312043 2483950 3626802	Interval (us) 0 1090909 2181818 3272727	Interval (us) 1090908 2181817 3272726 4363635
otal num **********  aveform N  aveform N  contact  conta	Aum = 4 sts = 11 erval (us)= 1090 Off Time (us) 247181 1063120 1168786 1137627	909 # Pulses 1 2 3 3 3	Chirp (MHz) 14 14 9 18	PW (us) 65 95 75 55 70	Pulse 1 Pri(us) 1742 1588 1498 1953 1222	Pulse 2 Pri(us) 0 1533 1873 1504	Pulse 3 Pri(us) 0 0 1854 1035	(us) 247181 1312043 2483950 3626802 5119845	Interval (us) 0 1090909 2181818 3272727 4363636	Interval (us) 1090908 2181817 3272726 4363635 5454544
otal num **********  aveform N um of Bu urst Inte  c d d d d d d d d d d d d d d d d d d	Aum = 4 'sts = 11 crval (us)= 1090 Off Time (us) 247181 1063120 1168786 1137627 1488551	909 # Pulses 1 2 3 3 2 2	Chirp (MHz) 14 14 9 18 18	PW (us) 65 95 75 55 70 70	Pulse 1 Pri(us) 1742 1588 1498 1953 1222 1939	Pulse 2 Pri(us) 0 1533 1873 1504 1040	Pulse 3 Pri(us) 0 0 1854 1035 0	(us) 247181 1312043 2483950 3626802 5119845 6221219	Interval (us) 0 1090909 2181818 3272727 4363636 5454545	Interval (us) 1090908 2181817 3272726 4363635 5454544 6545453
otal num *********  oveform N m of Bu urst Inte	Aum = 4 'sts = 11 'rval (us)= 1090 Off Time (us) 247181 1063120 1168786 1137627 1488551 1099112	909 # Pulses 1 2 3 3 2 2 3	Chirp (MHz) 14 14 9 18 18 16	PW (us) 65 95 75 55 70 70 95	Pulse 1 Pri(us) 1742 1588 1498 1953 1222 1939 1811	Pulse 2 Pri(us) 0 1533 1873 1504 1040 1945	Pulse 3 Pri(us) 0 0 1854 1035 0 0	(us) 247181 1312043 2483950 3626802 5119845 6221219 6760763	Interval (us) 0 1090909 2181818 3272727 4363636 5454545	Interval (us) 1090908 2181817 3272726 4363635 5454544 6545453 7636362
otal num *********  aveform Num of Bun urst Inte	Aum = 4 'sts = 11 crval (us)= 1090 Off Time (us) 247181 1063120 1168786 1137627 1488551 1099112 535660	909 # Pulses 1 2 3 3 2 2 3 3 3	Chirp (MHz) 14 14 9 18 18 16 12	PW (us) 65 95 75 55 70 70 95 55	Pulse 1 Pri(us) 1742 1588 1498 1953 1222 1939 1811 1495	Pulse 2 Pri(us) 0 1533 1873 1504 1040 1945 1507	Pulse 3 Pri(us) 0 0 1854 1035 0 0 1354 1789	(us) 247181 1312043 2483950 3626802 5119845 6221219 6760763 8114607	Interval (us) 0 1090909 2181818 3272727 4363636 5454545 6545454 7636363	Interval (us) 1090908 2181817 3272726 4363635 5454544 6545453 7636362 8727271
aveform Num of Bun arrst Inte	Aum = 4 'sts = 11 'rval (us)= 1090 Off Time (us) 247181 1063120 1168786 1137627 1488551 1099112 535660 1349172 1067498	909 # Pulses 1 2 3 3 2 2 3 3 2	Chirp (MHz) 14 14 9 18 18 16	PW (us) 65 95 75 55 70 70 95	Pulse 1 Pri(us) 1742 1588 1498 1953 1222 1939 1811	Pulse 2 Pri(us) 0 1533 1873 1504 1040 1945	Pulse 3 Pri(us) 0 0 1854 1035 0 0	(us) 247181 1312043 2483950 3626802 5119845 6221219 6760763	Interval (us) 0 1090909 2181818 3272727 4363636 5454545	Interval (us) 1090908 2181817 3272726 4363635 5454544 6545453 7636362
otal num *******  aveform P um of Bun urst Inte	Aum = 4 rsts = 11 rvel (us)= 1090 Off Time (us) 247181 1063120 1168786 1137627 1488551 1099112 535660 1349172	909 # Pulses 1 2 3 3 2 2 3 3 3	Chirp (MHz) 14 14 9 18 18 16 12	PW (us) 65 95 75 55 70 70 95 55	Pulse 1 Pri(us) 1742 1588 1498 1953 1222 1939 1811 1495	Pulse 2 Pri(us) 0 1533 1873 1504 1040 1945 1507	Pulse 3 Pri(us) 0 0 1854 1035 0 0 1354 1789	(us) 247181 1312043 2483950 3626802 5119845 6221219 6760763 8114607	Interval (us) 0 1090909 2181818 3272727 4363636 5454545 6545454 7636363	Interval (us) 1090908 2181817 3272726 4363635 5454544 6545453 7636362 8727271





				Type	5 Radar \	<b>Navefori</b>	n_5			
reform Nu	um = 5 sts = 16									
st Inter	rval (us)= 7500 Off Time		Chirp	₽₩	Pulse 1	Pulse 2	Pulse 3	Start Loc	Start Burst	End Burst
rst	(us) 488770	# Pulses	Chirp (MHz)	(us)	Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Interval (us)	Interval(us)
	634221	3	14	75	1194	1928	1000	488770	0	749999
	864013	1	8	65	1427	0	0	1127113	750000	1499999
		2	7	90	1300	1118	0	1992553	1500000	2249999
	341131	3	10	60	1770	1966	1220	2336102	2250000	2999999
	1257269	3	18	100	1758	1535	1470	3598327	3000000	3749999
	495633	2	10	65	1324	1822	0	4098723	3750000	4499999
	446494	3	19	70	1857	1355	1353	4548363	4500000	5249999
	764341	1	11	90	1556	0	0	5317269	5250000	5999999
	754406	1	14	65	1784	0	0	6073231	6000000	6749999
	1188399	1	11	60	1882	0	0	7263414	6750000	7499999
	612041	1	15	80	1954	0	0	7877337	7500000	8249999
	386320	2	12	90	1891	1661	0	8265611	8250000	8999999
	958623	3	16	65	1683	1256	1702	9227786	9000000	9749999
	1169593	2	13	55	1354	1439	0	10402020	9750000	10499999
	279935	3	9	100	1326	1178	1568	10684748	10500000	11249999
	857408	2	14	50	1227	1865	0	11546228	11250000	11999999
al numbe	er of pulses in	waveform = 3	:3							
				Туре	5 Radar \	Wavefori	n_6			
.c N										
	um — 6 sts = 10 rval (us)= 1200	0000								
вt	Off Time	#	Chirp	PW	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	
	1090123	3	6	50	1369	1352	1509	1090123	0	1199999
	835001	3	0	50	1309	1352	1509	1090123	U	1133333
		2	19	100	1448	1811	0	1929354	1200000	2399999
	1301100	2	8	70	1536	1060	0	3233713	2400000	3599999
	1222944				1000	1000	v	0200.10	210000	000000
	1969750	2	7	80	1122	1573	0	4459253	3600000	4799999
	1363752	3	13	100	1866	1771	1211	5825700	4800000	5999999
	862527									
	1113997	3	17	50	1273	1940	1849	6693075	6000000	7199999
	1113331	2	10	50	1968	1714	0	7812134	7200000	8399999
	1293808				4.007	4054	4050	04.00404	040000	050000
	891888	3	10	75	1687	1054	1372	9109624	8400000	9599999
	031000	1	5	55	1643	0	0	10005625	9600000	10799999
	1460009			400	1000	1005		*********		*****
		2	6	100	1098	1365	0	11467277	10800000	11999999
al numba	er of ruless in	a massaform - '	73							
	er of pulses ir					**				
							m 7			
ekskekskekskekskekskekskekskekskekskeks	**************************************	******			5 Radar \		m_7			
eform No of Burs	hum = 7 sts = 18 rrval (us)= 666	******	**********	Туре	5 Radar \	<b>Wavefor</b> i				
eform No of Burs	hum = 7 sts = 18 rrval (us)= 666 (us)	******					M_7	Start Loc (us)	Start Burs Interval(u	
eform No of Burs	hum = 7 lum = 18 lum = (us) = 666 (us) 474346		Chirp	Type	5 Radar \	Navefori	Pulse 3	Start Loc (um) 474346		
eform No of Burs	Aum = 7 Sts = 18 (us) = 666 (us) 474346 430966	######################################	Chirp (MHz)	Type	5 Radar \	Wavefori	Pulse 3 Pri(us)	(us)	Interval (u	s) Interval(us
eform No of Burs	Aum = 7 Sts = 18 "Off Time (us) 474346 430966 990896	######################################	Chirp (MHz)	Type	5 Radar \ Pulse 1 Pri(us) 1023	Vavefori Pulse 2 Pri(us) 1003	Pulse 3 Pri(us) 0	(us) 474346	Interval (u 0	s) Interval(us) 666666
eform No of Burs	Aum = 7 sts = 18 rvel (us) = 666 (us) 474346 430966 990896 545804	######################################	Chirp (MHz) 12 8	Type  Pw (us) 95 70	5 Radar \ Pulse 1 Pri(us) 1023 1423	Pulse 2 Pri(us) 1003 1034	Pulse 3 Pri(us) 0 1806	(us) 474346 907338	Interval (u 0 666667	s) Interval(us 666666 1333333
eform No of Burs	Aum = 7 ************************************	667 # Pulses 2 3 1	Chirp (MHz) 12 8	Pw (us) 95 70 60	5 Radar \ Pulse 1 Pri(us) 1023 1423 1803	Pulse 2 Pri(us) 1003 1034	Pulse 3 Pri(us) 0 1806 0	(us) 474346 907338 1902497	Interval (u 0 666667 1333334	s) Interval(us) 666666 1333333 2000000
eform No of Burs	Aum = 7 ************************************	######################################	Chirp (MHz) 12 8 9	Pw (us) 95 70 60 65	Pulse 1 Pri (us) 1023 1423 1803 1665	Pulse 2 Pri(us) 1003 1034 0	Pulse 3 Pri(us) 0 1806 0	(us) 474346 907338 1902497 2450104	Interval (u 0 666667 1333334 2000001	s) Interval(us 666666 1333333 2000000 2666667
eform No of Burs	Aum = 7 **sts = 18 **rval (us)= 666 (us) 474346 430966 990896 545804 353371 712332 1041564	667  fulses 2 3 1 2 1	Chirp (MHz) 12 8 9 13 6	Pw (us) 95 70 60 65 85	Pulse 1 Pri (us) 1023 1423 1803 1665 1490	Pulse 2 Pri(us) 1003 1034 0 1651	Pulse 3 Pri(us) 0 1806 0	(um) 474346 907338 1902497 2450104 2806791	Interval (u 0 666667 1333334 2000001 2666668	s) Interval (us) 666666 1333333 2000000 2666667 3333334
eform No of Burs	Aum = 7 ************************************	.667 #Pulses 2 3 1 1 2 1 3	Chirp (Hz) (Hz) (112 8 9 13 6	Pw (us) 95 70 60 65 85 75	Fulse 1 Pri(us) 1023 1423 1803 1665 1490 1847	Pulse 2 Pri(us) 1003 1034 0 1651 0	Pulse 3 Pri(us) 0 1806 0 0	(us) 474346 907338 1902497 2450104 2806791 3520613	Interval (u 0 666667 1333334 2000001 2666668 3333335	s) Interval (us: 666666 1333333 2000000 2666667 3333334 4000001
eform No of Burs	hum = 7 sts = 18 rrval (us) 6666 Off Time (us) 474346 430966 990896 545804 353371 712332 1041564 350530 650109	######################################	Chirp (MHz) 12 9 13 6 6	Fw (us) 95 70 60 65 85 75 70	Pulse 1 Pri(us) 1023 1423 1803 1665 1490 1847	Pulse 2 Pri(us) 1003 1034 0 1651 0	Pulse 3 Pri(us) 0 1806 0 0 0	(us) 474346 907338 1902497 2450104 2806791 3520613 4566446	Interval (u 0 666667 1333334 2000001 2666668 3333335 4000002	million served (us. 666666 1333333 2000000 2666667 3333334 4000001 4666668
eform No of Burs	Aum = 7 ************************************	######################################	Chirp (MHz) 12 8 9 13 6 6 9 14	Type  Pw (us) 95 70 60 65 85 75 70 55	Pulse 1 Pri(us) 1023 1423 1803 1665 1490 1847 1006 1463 1296	Pulse 2 Pri(us) 1003 1034 0 1651 0 1168	Pulse 3 Pri(us) 0 1806 0 0 0 0 1254 0	(us) 474346 907338 1902497 2450104 2806791 3520613 4566446 4917982 5569554	Interval (u 0 666667 1333334 2000001 2666668 3333335 4000002 4666669 5333336	s) Interval (us: 666666 1333333 2000000 2666667 3333334 400001 466668 5333335
eform No of Burs	Aum = 7 ************************************	667  #Pulses 2 3 1 2 1 3 1 1 1 2	Chirp (MHz) 12 8 9 13 6 6 9 14 13 15	Pw (us) 95 70 60 65 85 75 70 66 66 66	Pulse 1 Pri(us) 1023 1423 1803 1665 1490 1847 1006 1463 1296 1817	Pulse 2 Pri(us) 1003 1034 0 1651 0 1168 0 0	Pulse 3 Pri(us) 0 1806 0 0 0 1254 0 0	(us) 474346 907338 1902497 2450104 2806791 3520613 4566446 4917982	Interval (u 0 666667 1333334 2000001 2666668 3333335 4000002 4666669 5333336 6000003	million (us. 666666
eform No of Burs	Aum = 7 **sts = 18 *rval (us) = 666* **Off Time (us) = 474346 430966 990896 545804 353371 712332 1041564 350530 650109 748741 603556 443434	######################################	Chirp (MHs) 12 8 9 13 6 6 9 14 13 15	Pw (us) 95 70 60 65 85 75 100 60 80	Pulse 1 Pri(us) 1023 1423 1803 1665 1490 1847 1006 1463 1296 1817	Pulse 2 Pri(us) 1003 1034 0 1651 0 0 1168 0 0	Pulse 3 Pri(um) 0 1806 0 0 0 1254 0 0 0	(us) 474346 907338 1902497 2450104 2806791 3520613 4566446 4917982 5569554 6319591	Interval (u 0 666667 1333334 2000001 2666668 3333335 4000002 4666669 5333336 6000003 6666670	million (us 666666 1333333 2000000 2666667 333334 4000001 4666688 5333335 6000002 6666669 7333336
eform No of Bures	hum = 7 == 18 == 18 Prval (us) = 666 Off Time (us) 43346 430966 990896 545804 353371 712332 1041564 350530 650109 748741 603556 443434 1043303	######################################	Chirp (MHz) 12 8 9 13 6 6 9 14 13 15 5	Pw (us) 95 70 60 65 85 76 100 60 80 65	Pulse 1 Pri(us) 1023 1803 1665 1490 1847 1006 1463 1296 1817 1672	Pulse 2 Pri(us) 1003 1034 0 1651 0 1168 0 0 0 1737 1178 1892	Pulse 3 Pri(us) 0 1806 0 0 0 1254 0 0 0 0	(us) 474346 907338 1902497 2450104 2806791 3520613 4566446 4917982 5569554 6319591 6926701 7374497	Interval (u 0 666667 1333334 2000001 2666668 3333335 4000002 4666669 5333336 6000003 6666670 7333337	million (us. 666666   1333333   2000000   2666667   3333334   4000001   4666668   5333335   6000002   6666669   7333336   8000003
eform No of Bures	Aum = 7 Prot = 18 Prot (us) = 666 Off Time (us) = 666 474346 430366 990396 545804 353371 712332 1041564 350530 650109 748741 603556 443434 1043303 526865	667  #Pulses 2 3 1 2 1 3 1 1 1 2 3 3 2	Chirp (MHz) 12 8 9 13 6 6 9 14 13 15 5 11 20	Pw (us) 95 70 60 65 85 75 70 60 60 80 65 95	Fulse 1 Pri(us) 1023 1423 1803 1665 1490 1847 1006 1463 1296 1817 1672 1677	Pulse 2 Pri(us) 1003 1034 0 1651 0 1168 0 0 0 1737 1178 1892 1872	Pulse 3 Pri(us) 0 1806 0 0 0 1254 0 0 0 0 1512	(us) 474346 907338 1902497 2450104 2806791 3520613 4566446 4917982 5569554 6519551 6926701 7374497 8422877	Interval (u 0 666667 1333334 2000001 2666668 333335 4000002 4666669 5333336 6000003 6666670 7333337 8000004	million interval (us. 666666   1333333   2000000   2666667   333334   4000001   4666668   533335   6000002   6666669   7333336   8000003   8666670
eform N	Aum = 7 **sts = 18 **rval (us) = 666 **(us) = 474346 **430966 **990896 **545804 **353371 **712332 **1041564 **350530 **650109 **748741 **603556 **443434 **1043303 **526865 **749643	######################################	Chirp (MHz) 12 9 13 6 9 14 13 15 5 11 20 9	Pw (us) 95 70 60 65 85 100 60 80 65 95 75	Pulse 1 Pri(us) 1023 1423 1803 1665 1490 1847 1006 1463 1296 1817 1672 1677 1738	Pulse 2 Pri(us) 1003 1034 0 1651 0 1168 0 0 0 1737 1178 1892	Pulse 3 Pri(us) 0 1806 0 0 0 1254 0 0 0 0 1512 1508 0	(us) 474346 907338 1902497 2450104 2806791 3520613 4556446 4917982 5559554 6319591 6926701 7374497 8422877	Interval (u 0 666667 1333334 2000001 2666668 3333335 4000002 4666669 5333336 6000003 6666670 7333337 8000004 8666671	million (us. 666666   1333333   2000000   2666667   3333334   4000001   4666668   5333335   6000002   6666669   7333336   8000003   8666670   9333337
eform No of Bures	Aum = 7 ************************************	######################################	Chirp (NHz) 12 8 9 13 6 6 9 14 13 15 5	Pw (us) 95 70 60 65 85 76 100 60 80 65 95 75 70	Pulse 1 Pri(us) 1023 1423 1803 1665 1490 1847 1006 1463 1296 1817 1672 1677 1738 1172	Pulse 2 Pri(us) 1003 1034 0 1651 0 0 1168 0 0 0 1737 1178 1892 1872	Pulse 3 Pri(us) 0 1806 0 0 0 1254 0 0 0 0 1512 1508 0	(us) 474346 907338 1902497 2450104 2806791 3520613 4566446 4917982 5569554 6319591 6926701 7374497 8422877 8853352	Interval (u 0 666667 133334 200001 2666668 333335 400002 4666669 533336 600003 666670 733337 8000004 8666671 9333338	million (us. 666666   1333333   2000000   2666667   3333334   4000001   4666688   5333335   6000002   6666669   7333336   8000003   8666670   9333337   10000004
eform No of Bures	Aum = 7 **sts = 18 **rval (us) = 666 **(us) = 474346 **430966 **990896 **545804 **353371 **712332 **1041564 **350530 **650109 **748741 **603556 **443434 **1043303 **526865 **749643	######################################	Chirp (MHz) 12 9 13 6 9 14 13 15 5 11 20 9	Pw (us) 95 70 60 65 85 100 60 80 65 95 75	Pulse 1 Pri(us) 1023 1423 1803 1665 1490 1847 1006 1463 1296 1817 1672 1677 1738	Pulse 2 Pri(us) 1003 1034 0 1651 0 1168 0 0 0 1737 1178 1892	Pulse 3 Pri(us) 0 1806 0 0 0 1254 0 0 0 0 1512 1508 0	(us) 474346 907338 1902497 2450104 2806791 3520613 4556446 4917982 5559554 6319591 6926701 7374497 8422877	Interval (u 0 666667 1333334 2000001 2666668 3333335 4000002 4666669 5333336 6000003 6666670 7333337 8000004 8666671	million (us. 666666   1333333   2000000   2666667   3333334   4000001   4666668   5333335   6000002   6666669   7333336   8000003   8666670   9333337





				Туре	5 Radar	Wavefor	m_8			
eform N	ium = 8									
of Bur	sts = 9 rval (us)= 1333	3333								
вt	Off Time	#	Chirp	PW	Pulse 1	Pulse 2	Pulse 3	Start Loc	Start Burst	End Burst
	(us) 338577	Pulses	(MHz)	(us)	Pri(us)	Pri(us)	Pri(us)	(us)	Interval (us)	Interval(us)
	1099886	2	6	85	1835	1164	0	338577	0	1333332
	2504151	3	12	65	1810	1095	1271	1441462	1333333	2666665
	329190	1	12	75	1548	0	0	3949789	2666666	3999998
	1951210	3	14	50	1410	1038	1960	4280527	3999999	5333331
	911387	1	11	85	1760	0	0	6236145	5333332	6666664
		1	13	50	1666	0	0	7149292	6666665	7999997
	1959226	2	5	70	1793	1058	0	9110184	7999998	9333330
	440424	2	14	70	1988	1690	0	9553459	9333331	10666663
	2369521	1	9	60	1400	0	0	11926658	10666664	11999996
	er of pulses ir			****		**				
				Туре	5 Radar	Wavefor	'm_9			
eform N	0									
of Bur	sts = 11 rval (us)= 1090	909								
st	Off Time	#	Chirp	PW .	Pulse 1	Pulse 2	Pulse 3	Start Loc	Start Burst   1	and Burst
	(us) 472232	Pulses	(MHz)	(us)	Pri(us)	Pri(us)	Pri(us)	(us)		Interval (us)
	714773	1	5	65	1899	0	0	472232	0	1090908
	1067013	1	16 6	50 60	1613 1609	0	0	1188904 2257530	1090909 2181818	2181817 3272726
	1768217	1	6	70	1103	0	0	4027356	3272727	4363635
	757445	3	8	85	1588	1311	1032	4785904	4363636	5454544
	942519	1	18	85	1154	0	0	5732354	5454545	6545453
	1276321	3	10	55	1180	1638	1493	7009829	6545454	7636362
	1578791	2	5	50	1095	1961	0	8592931	7636363	8727271
	394435 1898701	2	14	95	1270	1201	0	8990422	8727272	9818180
	896768	1	13	70	1182	0	0	10891594	9818181	10909089
al numb	er of pulses in	3 waveform = 1	6	65	1676	1384	1061	11789544	10909090	11999998
*****	*****	*****	********			*				
				Tymo	E Dodor I	Novefor	m 10			
				туре	5 Radar \	wavefor	m_10			
a form N	hum = 10									
of Bur	fum = 10 sts = 8	2000								
of Bur t Inte	sts = 8 rval (us)= 1500									
of Bur t Inte	rsts = 8 rval (us)= 1500 Off Time	#	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us	
of Bur t Inte	sts = 8 rval (us)= 1500	# Pulses	(MHz)	(us)	Pri(us)	Pri(us)	Pri(us)	(us)	Interval (us	) Interval(us)
of Bur t Inte	sts = 8 rval (us)= 1500 Off Time (us)	# Pulses 3	(MHz) 9	(us) 100	Pri(us) 1599	Pri (us) 1446	Pri(us) 1876	(us) 1283521	Interval (us 0	) Interval(us) 1499999
of Bur t Inte	sts = 8 rval (us)= 1500 Off Time (us) 1283521 863791	# Pulses	(MHz)	(us)	Pri(us)	Pri(us)	Pri(us)	(us)	Interval (us	) Interval(us)
of Bur t Inte	rsts = 8 rval (us)= 1500 Off Time (us) 1283521 863791 1561207	# Pulses 3	(MHz) 9	(us) 100	Pri(us) 1599	Pri (us) 1446	Pri(us) 1876	(us) 1283521	Interval (us 0	) Interval(us) 1499999
of Bur	sts = 8 rval (us)= 1500 Off Time (us) 1283521 863791	# Pulses 3 2	(MHz) 9 10	(us) 100 70	Pri(us) 1599 1963	Pri (us) 1446 1401	Pri(us) 1876 0	(us) 1283521 2152233	Interval (us 0 1500000	) Interval(us) 1499999 2999999
of Bur t Inte	rsts = 8 rval (us)= 1500 Off Time (us) 1283521 863791 1561207	# Pulses 3 2 1	(MHz) 9 10 11 17	(us) 100 70 90 55	Pri(us) 1599 1963 1478 1531	Pri(us) 1446 1401 0 1958	Pri(us) 1876 0 0 1044	(us) 1283521 2152233 3716804 5049343	Interval (us 0 1500000 3000000 4500000	) Interval(us) 1499999 2999999 4499999 5999999
of Bur t Inte	rsts = 8 rval (us)= 1500 Off Time (us) 1283521 863791 1561207 1331061	# Pulses 3 2 1 3	(MHz) 9 10 11 17	(us) 100 70 90 55	Pri(us) 1599 1963 1478 1531 1373	Pri(us)  1446  1401  0  1958  1588	Pri(us) 1876 0 0 1044	(us) 1283521 2152233 3716804 5049343 7120225	Interval (us 0 1500000 3000000 4500000 6000000	149999 2999999 449999 599999 7499999
of Bur t Inte	sts = 8 rval (us)= 1500 Off Time (us) 1283521 863791 1561207 1331061 2066349	# Pulses 3 2 1	(MHz) 9 10 11 17	(us) 100 70 90 55	Pri(us) 1599 1963 1478 1531	Pri(us) 1446 1401 0 1958	Pri(us) 1876 0 0 1044	(us) 1283521 2152233 3716804 5049343	Interval (us 0 1500000 3000000 4500000	) Interval(us) 1499999 2999999 4499999 5999999
of Bur st Inte	sts = 8 rval (us)= 1500 Off Time (us) 1283521 863791 1561207 1331061 2066349 1011854	# Pulses 3 2 1 3	(MHz) 9 10 11 17	(us) 100 70 90 55	Pri(us) 1599 1963 1478 1531 1373	Pri(us)  1446  1401  0  1958  1588	Pri(us) 1876 0 0 1044	(us) 1283521 2152233 3716804 5049343 7120225	Interval (us 0 1500000 3000000 4500000 6000000	149999 2999999 449999 599999 7499999

FCC ID: 2ABLK-8X4G-1 Page Number: 96 of 114





				Type 5	Radar W	aveform	_11			
aveform N um of Bur	fum = 11 sts = 19 rval (us)= 631									
urst Inte	rval (us)= 631 Off Time		Chirm	DW	Pulce 1	Pulse 2	Pulce 3	Start Loc	Start Burg	t End Burget
urst	(us) 231424	# Pulses	(MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burs Interval(u	
1	554684	3	11	95	1417	1221	1482	231424	0	631578
2	995544	2	8	85	1376	1165	0	790228	631579	1263157
3 4	327542	1 2	6 20	80 100	1492 1679	0 1288	0	1788313 2117347	1263158 1894737	1894736 2526315
5	472242	2	15	85	1663	1666	0	2592556	2526316	3157894
6	743555	1	20	100	1051	0	o	3339440	3157895	3789473
7	897859	3	5	80	1377	1623	1249	4238350	3789474	4421052
8	693971	3	7	95	1328	1941	1099	4936570	4421053	5052631
9	346711 567409	2	15	85	1452	1969	0	5287649	5052632	5684210
10	1039156	1	15	100	1099	0	0	5858479	5684211	6315789
11	178681	1	6	70	1435	0	0	6898734	6315790	6947368
12	832499	3	13	100	1563	1820	1268	7078850	6947369	7578947
13	889908	3	15	55	1838	1740	1093	7916000	7578948	8210526
14	195356	2	9	50	1208	1050	0	8810579	8210527	8842105
15	674112	2	9	95	1626	1434	0	9008193	8842106	9473684
16	1013221	3	14	55	1801	1594	1105	9685365	9473685	10105263
17 18	279887	1 3	16 17	70 50	1202 1154	0 1956	0 1512	10703086 10984175	10105264 10736843	10736842 11368421
1.9	472685	3	12	100	1094	1688	1965	11461482	11368422	12000000
	er of pulses i		41		1034		1900	11401402	11300422	12000000
							12			
				Type 5	Radar W	avelonii	_12			
veform No m of Bur:	um = 12 sts = 11									
rst Inte	rval (us)= 1090	1909								
ırst	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)		End Burst Interval(us)
	1033132	ruises	(MITZ)	(us)	rri(us)	rri(us)	rri(us)	(us)	interval(us)	interval(us)
L	750444	2	16	55	1728	1824	0	1033132	0	1090908
2	759444	2	11	75	1647	1307	0	1796128	1090909	2181817
	1239670									
3	1201206	2	5	95	1153	1504	0	3038752	2181818	3272726
4		1	5	70	1022	0	0	4242615	3272727	4363635
5	217080	2	14	65	1489	1586	0	4460717	4363636	5454544
	1530720									
6	1443004	1	13	55	1592	0	0	5994512	5454545	6545453
7	1443004	1	19	70	1849	0	0	7439108	6545454	7636362
8	1023349	2	10	60	1015	1650	0	0464906	7000000	0707071
٥	698829	2	10	60	1815	1652	0	8464306	7636363	8727271
9		2	8	85	1319	1350	0	9166602	8727272	9818180
10	1219022	1	11	90	1262	0	0	10388293	9818181	10909089
	563117					•				
.1 otal numb	er of pulses ir	1 waveform = 1	12 7	90	1285	0	0	10952672	10909090	11999998
okokokokokokokoko	***************************************	************************	***************			*				
				Type 5	Radar W	aveform	_13			
weform N	fum = 13									
um of Bur urst Inte	sts = 13 rval (us)= 923	077								
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(us)
	375467									
1	847854	2	12	75	1018	1541	0	375467	0	923076
2		1	14	60	1240	0	0	1225880	923077	1846153
3	947664	2	14	90	1888	1298	0	2174784	1846154	2769230
1	1004261	3	14	50	1107	1156	1598	3182231	2769231	3692307
	1296446									
5	1037813	2	16	75	1177	1144	0	4482538	3692308	4615384
3		2	18	95	1358	1998	0	5522672	4615385	5538461
	791638	2	5	95	1681	1516	0	6317666	5538462	6461538
	245549									
	1636954	1	19	55	1045	0	0	6566412	6461539	7384615
3		3	5	90	1252	1508	1058	8204411	7384616	8307692
3	947997		1.5	50	1778	1463	0	9151226	8307693	9230769
3	942997	2	15	50	1110					
3 9 10	942997 823029						0			10153846
3 9 10		1	18	60	1210	0	0	9977496	9230770	10153846
3 9 .0	823029						0 1604 0			10153846 11076923 12000000





				Type !	5 Radar W	laveforn	n_14				
veform N	ium = 14										
m of Bur: rst Inte	um = 14 sts = 19 rval (us)= 6315	579									
urst	Off Time	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Interv	Burst al (us)	End Burst Interval(us)
	(us) 296704	1	15	100	1628	0	0	296704	0		631578
	626484	3	7	75	1109	1340	1037	924816	63157	9	1263157
	408396	2	10	65	1272	1760	0	1336698	12631		1894736
	1023923	1	5	85	1792	0	0	2363653	18947		2526315
	758800	3	9	85	1253	1984	1513	3124245	25263	16	3157894
	451309	3	13	90	1326	1460	1563	3580304	31578		3789473
	380342	1	7	60	1673	0	0	3964995	37894		4421052
	719405	2	8	70	1454	1583	0	4686073	44210		5052631
	470507	1	10	50	1931	0	0	5159617	50526		5684210
)	1127446	3	11	65	1843	1300	1682	6288994	56842		6315789
	521882	3	14	90	1785	1097	1482	6815701	63157		6947368
:	302113	1	8	95	1792	0	0	7122178	69473		7578947
	726958	2	8	95	1407	1130	0	7850928	75789		8210526
	612041	2	18	50	1344	1959	0	8465506	82105		8842105
;	499203	1	20	100	1300	0	0	8968012	88421		9473684
,	1111774	3	19	95	1453	1199	1040	10081086			10105263
	419159	3	17	50	1240	1412	1746	10503937			10736842
:	497197	3	18	90	1749	1010	1893	11005532			11368421
,	897733	3	19	60	1795	1788	1373	11907917			12000000
al numb	er of pulses in	waveform =	41	****			1313	11901911	11368		12000000
						,					
				Type :	5 Radar W	/aveforn	n_15				
	Jum = 15 sts = 11										
st Inte	erval (us)= 109										
rst	Off Time	# D1	Chirp	PW ()	Pulse 1	Pulse 2	Pulse 3	Start I		rt Burst	End Burst
	(us) 186768	Pulses	(MHz)	(us)	Pri(us)	Pri(us)	Pri(us)	(us)	Inte	erval (us)	) Interval(u
		2	12	60	1975	1302	0	186768	3 0		1090908
	1950233	3	15	95	1049	1167	1683	214027	79 100	90909	2181817
	463258	9	10	33							
	1616101	1	14	100	1755	0	0	260743	35 218	31818	3272726
	1616191	1	9	75	1843	0	0	422538	31 327	72727	4363635
	1018997										
	1002567	1	7	80	1792	0	0	524622	21 436	3636	5454544
		2	12	50	1611	1545	0	625058	30 549	54545	6545453
	320872										
	1877644	1	8	85	1127	0	0	657460	o 654	15454	7636362
		2	14	55	1687	1940	0	845337	79 763	36363	8727271
	335853	1	15	85	1778	0	0	070000	5a 077	27272	9818180
	1635051	1	15	రర	1112	U	U	879285	817 ور	51212	2012120
		1	14	90	1638	0	0	104296	888 981	18181	10909089
	991447	3	15	60	1825	1152	1235	114227	773 100	909090	11999998
al numb	er of pulses in	n waveform =	18		1825		1235	114221	773 105	909090	1199998
				Type !	5 Radar W	/aveforn	1_16				
eform Nu		12		Type :	5 Radar W	<i>l</i> aveforn	n_16				
eform Nu of Burs st Inter	sts = 17 rval (us)= 70588	#	Chirp	PW	Pulse 1	Pulse 2 I	Pulse 3 S	tart Loc S	tart Burst	End Bur:	st
eform Nu of Burs st Inter	sts = 17 rval (us)= 70588	# Pulses	Chirp (MHz)		Pulse 1	Pulse 2 I	Pulse 3 S	tart Loc S	tart Burst nterval(us)	End Bur Interva	st 1 (us)
eform Nu of Burs st Inter	sts = 17 rval (us)= 70588 Off Time (us) 32238	#	Chirp (MHz)	PW	Pulse 1	Pulse 2 I	Pulse 3 S	ıs) I	tart Burst nterval(us)	End Bur Interva	st 1 (us)
eform Nu of Burs st Inter	sts = 17 rval (us)= 70588 Off Time (us) 32238 677837	# Pulses		PW (us)	Pulse 1   Pri(us)	Pulse 2 I	Pulse 3 S Pri(us) (1	18) I 32238	nterval (us)	Interva	1 (us)
eform Nu of Burs st Inter	sts = 17 rval (us) = 70588 Off Time (us) 32238 677837 900869	# Pulses 1	12	PW (us) 75	Pulse 1   Pri(us)   1315	Pulse 2 F ri(us) F	Pulse 3 S Pri(us) (1 0 :	лв) I 32238 711390	nterval (us) 0	Interval	1 (us) 3
eform Nu of Burs st Inter	sts = 17 rval (us)= 70588 Off Time (us) 32238 677837 900869 739953	# Pulses 1 3	12 15	PW (us) 75 65	Pulse 1   Pri(us)   1315	Pulse 2 F Pri(us) F 0 1184	Pulse 3 S Pri(us) ( 0 : 1213 :	18) I 32238 711390 1615843	nterval (us) 0 705882	705881 141176	1 (us) 3 5
eform Nu of Burs	sts = 17 rval (us) = 70588 Off Time (us) 32238 677837 900869 739953 490283	#Pulses  1  3  1	12 15 13	PW (us) 75 65 90 80	Pulse 1   Pri(us)   1315   1187   1253   1029	Pulse 2 I Pri(us) I 0 1184	Pulse 3 S Pri(us) (( 0 : 1213 : 0 :	18) I 32238 711390 1615843 2357049	nterval (us) 0 705882 1411764	705881 141176 211764 282352	1 (us) 3 5
eform Nu of Burs	sts = 17 rval (us)= 70588 Off Time (us) 32238 677837 900869 739953	#Pulses  1  3  1  2	12 15 13 6 16	PW (Um) 75 65 90 80 70	Pulse 1   Pri(us)   1315   1253   1029   1901	Pulse 2 F Pri(us) I 0 1184 0 1465 1737	Pulse 3 S Pri(us) ( 0 : 1213 0 : 1694 :	18) I 32238 711390 1615843 2357049 2851520	nterval (us) 0 705882 1411764 2117646 2823528	705881 141176 211764 282352 352940	1 (us) 3 5 7 9
eform Nu of Burs	sts = 17 rval (us) = 70588 Off Time (us) 32238 677837 900869 739953 490283	# Pulses  1 3 1 3 2 2	12 15 13 6 16 13	PW (Uss) 75 65 90 80 70 95	Pulse 1   Pri(um)   1315   1187   1253   1029   1901   1042	Pulse 2 I Pri(us) I 0 1184 0 1465 1737	Pulse 3 S Pri(us) ( 0 : 1213 : 0 : 1694 : 0 :	13) I 32238 711390 1615843 2357049 2851520 3552490	nterval (us) 0 705882 1411764 2117646 2823528 3529410	705881 141176 211764 282352 352940 423529	1 (us) 3 5 7 9 1
eform Nu of Burs	sts = 17 rval (us) = 70588 Off Time (us) 32238 677837 900869 739953 490283 697332	#Pulses  1  3  1  2  2	12 15 13 6 16 13	PW (\usus) 75 65 90 80 70 95	Pulse 1   1   1   1   1   1   1   1   1   1	Pulse 2 I Pri(us) I 0 1184 0 1465 1737 1337	Pulse 3 S Pri(um) (0 0 : 1213 0 : 1694 : 0 :	18) I 32238 711390 1615843 2357049 2851520 3552490 4324900	nterval (us) 0 705882 1411764 2117646 2823528 3529410 4235292	705881 1411763 2117649 282352 352940 423529 494117	1 (us) 3 5 7 9 1
eform Nu of Burs	ats = 17	# Pulses 1 3 1 3 2 2 2 1	12 15 13 6 16 13 11	PW (us) 75 65 90 80 70 95 95 85	Pulse 1   Pri(us)   1   1   1   1   1   1   1   1   1	Pulse 2 I Pri(us) I 0 1184 0 1465 1737 1215 0	Pulse 3 S Pri (um) (n 0 : 1213 0 : 1694 : 0 : 0 : 0 : 0 0 : 0 : 0 0 : 0 : 0 :	18) I 32238 711390 1615843 2357049 2851520 3552490 4324900 5392075	nterval(us) 0 705882 1411764 2117646 2823528 3529410 4235292 4941174	705881 1411763 211764 282352 352940 423529 4941173	1 (us) 3 5 7 9 1 3 5
eform Nu of Burs	sts = 17	#Pulses  1  3  1  2  2	12 15 13 6 16 13	PW (\usus) 75 65 90 80 70 95 95	Pulse 1   1   1   1   1   1   1   1   1   1	Pulse 2 I Pri(us) I 0 1184 0 1465 1737 1337	Pulse 3 S Pri (um) (n 0 : 1213 0 : 1694 : 0 : 0 : 0 : 0 0 : 0 : 0 0 : 0 : 0 :	18) I 32238 711390 1615843 2357049 2851520 3552490 4324900 5392075	nterval (us) 0 705882 1411764 2117646 2823528 3529410 4235292	705881 1411763 2117649 282352 352940 423529 494117	1 (us) 3 5 7 9 1 3 5
eform Nu of Burs st Inter	sts = 17	# Pulses 1 3 1 3 2 2 2 1	12 15 13 6 16 13 11	PW (us) 75 65 90 80 70 95 95 85	Pulse 1   Pri(us)   1   1   1   1   1   1   1   1   1	Pulse 2 I Pri(us) I 0 1184 0 1465 1737 1215 0	Pulse 3 S- Pri(um) (1 0 : 1213 0 : 1694 : 0 : 0 :	18) I 32238 711390 1615843 2257049 2251520 3552490 4324900 5392075 3318856	nterval(us) 0 705882 1411764 2117646 2823528 3529410 4235292 4941174	705881 1411763 211764 282352 352940 423529 4941173	1 (us) 3 5 7 9 1 3 5 7 7
*******  eform N. of Burs st Inter	ats = 17) ats = 70588 Off Time (us) 3238 677837 900869 739953 490283 697332 770031 1064749 92565 443131 742130	# Pulses 1 3 1 2 2 2 1	12 15 13 6 16 13 11 20	P(W) (Uus) 75 65 90 80 70 95 95 86 100	Pulse 1   Pri(us)   1315   1187   1253   1029   1901   1042   1211   1146   1756	Pulse 2   1 Pri(um)   1 0 1184 0 1465 1737 1337 1215 0	Pulse 3 S Tri(um) (1 (um) (1 (	18) I 32238 32238 32238 0.615843 2357049 2851520 3552490 4324900 5392075 5318856 5763743	nterval(us) 0 705882 1411764 2117646 2823528 3529410 4235292 4941174 5647056	705881 1411763 2117649 282352 352940 423529 4941173 5647056	1 (um) 3 5 7 9 1 3 5 7 9 1 7 9 9 9 9 9 9 9 9 9 9 9 9
reform Nu of Burs st Inter	ats = 17	# Pulses 1 3 1 2 2 2 1 1 1 3 3 3 3 3 3 3 3 3 3 3	12 15 13 6 16 13 11 20 11 18	PW (us) 75 65 90 80 70 95 95 86 100 80 55	Pulse 1   1   1   1   1   1   1   1   1   1	Pulse 2 I Pri(us) I 0 1184 0 1465 1737 1235 0 0	Pulse 3 S Pri(um) (0 0 : 1213 0 : 1694 : 0 : 0 0 : 0 0 0 0 0 0 0	18) I 32238 711390 1615843 2357049 2851520 3552490 4324900 5392075 53318856 5763743	nterval (us) 0 705882 1411764 2117646 2823528 3529410 4235292 4941174 5647056 6552938 7058820	705881 141176: 211764: 282352: 352940: 423529: 494117: 564705: 635293: 705881: 776470:	1 (us) 3 5 7 9 1 1 5 7 7 9 1
reform Nu of Burest Inter	ats = 17) ats = 70588 Off Time (us) 3238 677837 900869 739953 490283 697332 770031 1064749 92565 443131 742130	# Pulses 1 3 1 2 2 2 1 1 1 3 2 2	12 15 13 6 16 13 11 20 11 18 12	PW (US) 75 65 90 80 70 95 95 85 100 80 55	Pulse 1 Pri(um) 1 1315 1187 1253 1029 1901 1042 1211 1146 1756 1104 1950	Pulse 2 I Pri(us) I 0 1184 0 1465 1737 1215 0 0 0 0	Pulse 3 S Pri(um) (6 0 : 1213 0 : 1694 : 0 : 0 : 0 : 0 : 0 : 0 : 0 :	18) I 382238 1711390 1615843 2357049 2851520 2552490 4324900 25392075 25318866 25763743 7506977 7950085	nterval (us) 0 705882 1411764 2117646 2823528 3529410 4235292 4941174 5647056 6552938 7058820 7764702	Interval 705881 1411764 2823522 352940 423529 494117: 5647056 635293: 705881 776470: 847058:	1 (um) 3 5 7 9 1 3 5 7 9 1 3 5 1 3 5 7 9 1 3 3 5 7 9 1 3 3 3 3
eform N. of Bures Inter	ats = 17	# Pulses  1 3 1 3 2 2 2 1 1 1 2 3 3 3 3 2 3 3 3 3	12 15 13 6 16 13 11 20 11 18 12 16	Pw (us) 75 65 90 80 70 95 85 100 80 55 55 75	Pulse 1   Pri(um)   1315   1187   1253   1029   1901   1042   1211   1146   1756   1104   1950   1965   1658   1658	Pulse 2   Pri(um)   1 0   1184   0   1465   1737   1337   1215   0   0   0   0   0   1581   1384   1889   1889	Pulse 3 S Pri(um) (1 0 : 1213 0 : 1694 0 : 0 0 : 0 0 : 0 0 : 0 10	18) I 32238   THE PROPERTY   THE PRO	nterval (us) 0 705882 1411764 2117646 2223528 3529410 4235292 4941174 5647056 6552938 7068820 7764702	Interval 705881 141176: 211764; 282352 352940: 423529; 494117: 564705; 635293; 705881- 776470; 847058; 917646;	1 (um) 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1
eform Nu of Burs st Inter	ats = 17	# Pulses 1 3 1 3 2 2 2 1 1 1 2 2 2 2 2 2 2 2 2 2	12 15 13 6 16 13 11 20 11 18 12 16 11	FW (\usus ) 75 65 90 80 70 95 95 85 100 80 55 55 66	Pulse 1   Pri(um)   1   1   1   1   1   1   1   1   1	Pulse 2 I ri(um) 0 11184 0 1465 1737 1215 0 0 0 1581 1354 1889	Pulse 3 S Tri(um) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	18) 1 32238 7/11390 1615843 2257049 22561520 3552490 43224900 5392075 53182856 5763743 7506977 7950085 8474902	nterval (um) 0 705882 1411764 2117646 2283528 3529410 4235292 4941174 5647056 6352938 7058820 7768820 8470584 9176466	Interva: 705881 1411764 282352; 352940 423529; 494117: 5647056 635293; 705881- 776470; 847058; 9176466 988234;	1 (um) 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 7 7 9 1 7 7 7 7 7 7 7 7 7 7 7 7 7
reform Nu of Burs	ats = 17) Off Time (um) S238 677837 900869 739953 490283 697332 770031 1064749 925635 443131 742130 438356 521498 1130532	# Pulses 1 3 1 2 2 2 2 1 1 1 3 3 2 3 2 3 2 3 3 2 3 3 2 3 3 3 2 3	12 15 13 6 16 13 11 20 11 18 12 16 11	PW (us) 75 65 90 80 70 95 95 86 100 80 55 56 66	Pulse 1   1   1   1   1   1   1   1   1   1	Pulse 2 I Pri(us) I 0 1184 0 1465 1737 1237 1215 0 0 0 1581 1354 1889 1536 1852	Pulse 3 Sri(um) (0	18) I 32238 32238 7/11390 1615843 22857049 22851520 3552490 4324900 5392075 5318856 53763743 7/506977 7/950085 8474902 84610668	nterval (um) 0 705882 1411764 2117646 2283528 3529410 4235292 4941174 5647056 6552938 7058820 7764702 8470584 9176466 9882348	Interval 705881 1411764 282352' 352940' 423529' 494117' 5647051 635293' 705881' 776470: 847058: 9176461 988234' 105882:	1 (um) 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 6 7 9 1 3 6 7 7 9 2 9
eform Nu	ats = 17) ats = 70588  Off Time (us)	# Pulses 1 3 1 3 2 2 2 1 1 1 2 2 2 2 2 2 2 2 2 2	12 15 13 6 16 13 11 20 11 18 12 16 11	FW (\usus ) 75 65 90 80 70 95 95 85 100 80 55 55 66	Pulse 1   Pri(um)   1   1   1   1   1   1   1   1   1	Pulse 2 I ri(um) 0 11184 0 1465 1737 1215 0 0 0 1581 1354 1889	Pulse 3 Sri(um) (0	18) I 32238 32238 7/11390 1615843 22857049 22851520 3552490 4324900 5392075 5318856 53763743 7/506977 7/950085 8474902 84610668	nterval (um) 0 705882 1411764 2117646 2283528 3529410 4235292 4941174 5647056 6352938 7058820 7768820 8470584 9176466	Interva: 705881 1411764 282352; 352940 423529; 494117: 5647056 635293; 705881- 776470; 847058; 9176466 988234;	1 (um) 3 5 7 9 1 3 5 7 9 1 3 5 7 9 1 3 6 7 9 1 3 6 7 7 9 2 9

FCC ID: 2ABLK-8X4G-1 Page Number: 98 of 114





				Type :	5 Radar V	Vaveforn	n_17			
aveform Nu	am = 17									
	um = 17 sts = 16 rval (us)= 7500	000	Chiam	Dtil	Pulse 1	Pulse 2	Pulse 3	Stont Loc	Stont Bungt	Fred Bymat
ırst	Off Time (us) 101739	# 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)
	935073	1	14	90	1790	0	0	101739	0	749999
	712674	1	6	95	1437	0	0	1038602	750000	1499999
	828945	2	14	85	1260	1680	0	1752713	1500000	2249999
	452801	2	13	50	1677	1431	0	2584598	2250000	2999999
	1111353	3	8	90	1610	1285	1303	3040507	3000000	3749999
	810282	2	7	90	1007	1284	0	4156058	3750000	4499999
	822388	1	19	100	1685	0	0	4968631	4500000	5249999
	582742	1	6	90	1931	0	0	5792704	5250000	5999999
	561580	3	6	100	1141	1807	1206	6377377	6000000	6749999
)	749740	1	9	70	1206	0	0	6943111	6750000	749999
L	1057301	3	15	90	1759	1961	1475	7694057	7500000	8249999
2	614317	3	11	60	1048	1565	1301	8756553	8250000	8999999
3	741599	2	8	85 70	1703	1435	0 1059	9374784	9000000	9749999
4	950379	2	10		1314	1572		10119521	9750000	10499999
5 6	863005	3	6 15	60 80	1162 1332	1024 1105	0 1137	11073845 11939036	10500000 11250000	11249999 11999999
tal numbe	er of pulses in	waveform = 3	33				1131	11333030	11230000	11333333
				_			10			
				Type	5 Radar V	Vaveforn	n_18			
eform Nu										
of Burs st Inter	val (us)= 1200	000								
rst	Off Time (us) 229201	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)		End Burst Interval(us)
		3	20	80	1289	1848	1562	229201	0	1199999
	1230069	1	5	85	1084	0	0	1463969	1200000	2399999
	1069549									
	1997510	3	18	80	1303	1845	1204	2534602	2400000	3599999
	1227518	2	18	75	1366	1731	0	3766472	3600000	4799999
	2018899									
	830312	1	15	100	1554	0	0	5788468	4800000	5999999
		3	19	55	1205	1504	1251	6620334	6000000	7199999
	1193137	3	8	100	1736	1327	1862	7817431	7200000	8399999
	642192									
	1882768	1	18	95	1451	0	0	8464548	8400000	9599999
		2	16	65	1539	1453	0	10348767	9600000	10799999
,	860768									
	r of pulses in			55 ******	1342 ********	1107 *	0	11212527	10800000	11999999
				Type	5 Radar V	Vaveforn	n_19			
	um = 19 sts = 16 rval (us)= 750									
veform Nu m of Burs	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	t End Burst s) Interval(us
veform Nu m of Burs rst Inter	(us)	3	10	55	1354	1819	1028	18706	0	749999
of Burs	(us) 18706		19	70	1232	1228	1980	1268699	750000	1499999
of Burs	(us) 18706 1245792			10		0	0	2022082	1500000	2249999
of Burs		3		an	1712		J		2250000	2249999
of Burs	1245792	3 1	5	90	1713		C C			
of Burs	1245792 748943	3 1 2	5 9	100	1542	1555	0	2986247		
of Burs	1245792 748943 962452	3 1 2 2	5 9 7	100 75	1542 1307	1555 1370	0	3062223	3000000	3749999
of Burs	1245792 748943 962452 72879	3 1 2 2 3	5 9 7 11	100 75 60	1542 1307 1365	1555 1370 1516	0 1561	3062223 3836565	3000000 3750000	4499999
of Burs	1245792 748943 962452 72879 771665	3 1 2 2 3 3	5 9 7 11 9	100 75 60 50	1542 1307 1365 1396	1555 1370 1516 1927	0 1561 1381	3062223 3836565 5106306	3000000 3750000 4500000	4499999 5249999
of Burs	1245792 748943 962452 72879 771665 1265299	3 1 2 2 3 3	5 9 7 11 9	100 75 60 50 100	1542 1307 1365 1396 1655	1555 1370 1516 1927 0	0 1561 1381 0	3062223 3836565 5106306 5607718	3000000 3750000 4500000 5250000	4499999 5249999 5999999
n of Burs st Inter st	1245792 748943 962452 72879 771665 1265299 496708	3 1 2 2 3 3 1	5 9 7 11 9 18	100 75 60 50 100 85	1542 1307 1365 1396 1655	1555 1370 1516 1927 0 1612	0 1561 1381 0 0	3062223 3836565 5106306 5607718 6596786	3000000 3750000 4500000 5250000 6000000	4499999 5249999 5999999 6749999
n of Burs	1245792 748943 962452 72879 771665 1265299 496708 987413 649076	3 1 2 2 3 3 1 2 3	5 9 7 11 9 18 11	100 75 60 50 100 85	1542 1307 1365 1396 1655 1643 1700	1555 1370 1516 1927 0 1612 1096	0 1561 1381 0 0 1756	3062223 3836565 5106306 5607718 6596786 7249117	3000000 3750000 4500000 5250000 6000000	4499999 5249999 5999999 6749999
n of Burs est Inter	1245792 748943 962452 72879 771665 1265299 496708 987413 649076 879173	3 1 2 2 3 3 1 2 3	5 9 7 11 9 18 11 18 5	100 75 60 50 100 85 85	1542 1307 1365 1396 1655	1555 1370 1516 1927 0 1612	0 1561 1381 0 0	3062223 3836565 5106306 5607718 6596786	3000000 3750000 4500000 5250000 6000000	4499999 5249999 5999999 6749999
n of Burs; st Inter	1245792 748943 962452 72879 771.665 1265299 496708 987413 649076 879173 113087	3 1 2 2 3 3 1 2 3	5 9 7 11 9 18 11 18 5	100 75 60 50 100 85 85 55	1542 1307 1365 1396 1655 1643 1700 1956	1555 1370 1516 1927 0 1612 1096 1917	0 1561 1381 0 0 1756 1838	3062223 3836565 5106306 5607718 6596786 7249117 8132842 8251640	300000 3750000 4500000 5250000 6000000 6750000 7500000 8250000	4499999 5249999 5999999 6749999 7499999 8249999
n of Burs; st Inter st	1245792 748943 962452 72879 771665 1265299 496708 987413 649076 879173 113087 961928	3 1 2 2 3 3 1 2 3	5 9 7 11 9 18 11 18 5	100 75 60 50 100 85 85	1542 1307 1365 1396 1655 1643 1700	1555 1370 1516 1927 0 1612 1096	0 1561 1381 0 0 1756 1838	3062223 3836565 5106306 5607718 6596786 7249117 8132842 8251640 9218528	300000 3750000 450000 5250000 6000000 6750000	4499999 5249999 5999999 6749999 7499999
n of Burs	1245792 748943 962452 72879 771665 1265299 496708 987413 649076 879173 113087 961928 767152	3 1 2 2 3 3 1 2 3 3 3 3 3 3	5 9 7 11 9 18 11 18 5	100 75 60 50 100 85 85 55	1542 1307 1365 1396 1655 1643 1700 1956	1555 1370 1516 1927 0 1612 1096 1917	0 1561 1381 0 0 1756 1838	3062223 3836565 5106306 5607718 6596786 7249117 8132842 8251640	300000 3750000 4500000 5250000 6000000 6750000 7500000 8250000	4499999 5249999 5999999 6749999 7499999 8249999
n of Burs sst Inter sst	1245792 748943 962452 72879 771665 1265299 496708 987413 649076 879173 113087 961928	3 1 2 2 3 3 1 2 3 3 1 2 3 3 1	5 9 7 11 9 18 11 18 5 5	100 75 60 50 100 85 85 55 75	1542 1307 1365 1396 1655 1643 1700 1956 1745	1555 1370 1516 1927 0 1612 1096 1917 1717	0 1561 1381 0 0 1756 1838 1498	3062223 3836565 5106306 5607718 6596786 7249117 8132842 8251640 9218528	300000 3750000 4500000 52500000 67500000 7500000 8250000 90000000	449999 524999 599999 674999 749999 824999 899999





				Type	5 Radar	Wavefori	m_20			
eform N	Jum = 20									
st Inte	rsts = 13 erval (us)= 9230	77								
rst	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)			End Burst Interval(us)
	806670	2	19	70	1065	1120	0	806670	0	923076
	982818	1	16	100	1576	0	0	1791673	923077	1846153
	624499	1	19	55	1733	0	0	2417748	1846154	2769230
	947077	3	9	70	1584	1699	1740	3366558	2769231	3692307
	546339	1	6	75	1737	0	0	3917920	3692308	4615384
	1317983	2	14	75	1885	1884	0	5237640	4615385	5538461
	1121911	1	17	80	1664	0	0	6363320	5538462	6461538
	606396	2	14	75	1926	1645	0	6971380	6461539	7384615
	413469	2	13	60	1259	1632	0	7388420	7384616	8307692
	1677935	3	6	100	1916	1925	1715	9069246	8307693	9230769
	1008168	1	9	100	1003	0	0	10082970	9230770	10153846
	146416	_								
	1360887	3	8	95	1938	1362	1642	10230389	10153847	11076923
al numb	er of pulses in	1 waveform = 2	11 3	100	1704 ********	0	0	11596218	11076924	12000000
re-re-re-re-re-re-r	ententententententententententententente	in i		and a first of a	estententententententententententententent	•				
				Туре	5 Radar	Wavefori	m_21			
eform l	Num = 21									
	rsts = 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)
	1050170									
	156837	2	6	65	1535	1193	0	1050170	0	1090908
		2	9	60	1566	1269	0	1209735	1090909	2181817
	1325610	2	19	75	1344	1544	0	2538180	2181818	3272726
	1034523	1	9	60	1135	0	0	3575591	3272727	4363635
	859294						-			
	2041470	3	15	50	1166	1618	1302	4436020	4363636	5454544
	106426	2	11	85	1851	1619	0	6481576	5454545	6545453
		3	18	55	1137	1311	1090	6591472	6545454	7636362
	1689817	3	14	50	1111	1386	1437	8284827	7636363	8727271
	605146	2	16	60	1843	1973	0	8893907	8727272	9818180
	960471						· ·			
	1897266	2	9	65	1328	1910	0	9858194	9818181	10909089
_1		1	11	70	1725	0	0	11758698	10909090	11999998
ai num	ber of pulses ir	1 waveiorm – *********				**				
				Туре	5 Radar	Wavefori	m_22			
eform	Num = 22 rsts = 19 erval (us)= 631									
st Int	Off Time	#	Chirp (MHz)	PW	Pulse 1	Pulse 2	Pulse 3	Start Loc	Start Bur	st End Burst
	(us) 9091	Pulses 2	(MHz) 5	(us) 80	Pri (us) 1731	Pri (us) 1266	Pri(us) O	(us) 9091	Interval (	us) Interval (us) 631578
	846419	3	9	80	1158	1425	1094	858507	631579	1263157
	406735 734413	3	14	95	1930	1890	1425	1268919	1263158	1894736
		2	18	100	1633	1260	0	2008577	1894737	2526315
	540103	1	8	75	1326	0	0	2551573	2526316	3157894
	540103 1223333	1	17 5	95 85	1850 1474	0 1701	0 1973	3776232 4092045	3157895 3789474	3789473 4421052
					1863	1966	1913	4702860	4421053	5052631
	1223333 313963 605667	3		75			0	5343882	5052632	5684210
	1223333 313963 605667 637193	3	19 16	75 55	1777	1154				
	1223333 313963 605667 637193 395206	3 2	19		1777 1230	1766	0	5742019	5684211	6315789
	1223333 313963 605667 637193 395206 600243	3 2 2	19 16 12 13	55 95 90	1230 1523	1766 0	0	6345258	6315790	6947368
	1223333 313963 605667 637193 395206	3 2 2 2 1	19 16 12 13	55 95 90 65	1230 1523 1966	1766 0 0	o o o	6345258 7567783	6315790 6947369	6947368 7578947
	1223333 313963 605667 637193 395206 600243 1221002	3 2 2 2 1 1	19 16 12 13 9	55 95 90 65 75	1230 1523 1966 1648	1766 0 0 0	0 0 0	6345258 7567783 7997173	6315790 6947369 7578948	6947368 7578947 8210526
	1223333 313963 605667 637193 395206 600243 1221002 427424 481142 590178	3 2 2 2 2 1 1 1 3	19 16 12 13 9 10 6	55 95 90 65 75 95	1230 1523 1966 1648 1187	1766 0 0 0 1957	0 0 0 0 1515	6345258 7567783 7997173 8479963	6315790 6947369 7578948 8210527	6947368 7578947 8210526 8842105
	1223333 313963 605667 637193 395206 600243 1221002 427424 481142 590178 531447	3 2 2 2 1 1	19 16 12 13 9	55 95 90 65 75	1230 1523 1966 1648	1766 0 0 0	0 0 0	6345258 7567783 7997173	6315790 6947369 7578948	6947368 7578947 8210526
	1223333 313963 605667 637193 395206 600243 1221002 427424 481142 590178 531447 504755	3 2 2 2 1 1 1 3	19 16 12 13 9 10 6	55 95 90 65 75 95	1230 1523 1966 1648 1187 1123	1766 0 0 0 1957 1504	0 0 0 0 1515	6345258 7567783 7997173 8479963 9074800	6315790 6947369 7578948 8210527 8842106 9473685	6947368 7578947 8210526 8842105 9473684 10105263
2 3 4 5	1223333 313963 605667 637193 395206 600243 1221002 427424 481142 590178 531447	3 2 2 2 1 1 1 3 2	19 16 12 13 9 10 6 8	55 95 90 65 75 95 76	1230 1523 1966 1648 1187 1123	1766 0 0 0 1957 1504 1657	0 0 0 0 1515 0	6345258 7567783 7997173 8479963 9074800 9608874	6315790 6947369 7578948 8210527 8842106 9473685	6947368 7578947 8210526 8842105 9473684 10105263 10736842

FCC ID: 2ABLK-8X4G-1 Page Number: 100 of 114





al number (************************	= 8 (us)= 1500 Off Time (us) 421505 1091415 2077107 1033013 1530242 2405367 1762894 524110 off pulses in	# Pulses  1 3 3 3 1 2 1 2 waveform = 1:		PW (us) 90 100 75 75 85 95 75 75	Pulse 1 Pri(us) 1881 1042 1751 1532 1593 1212 1011 1641	Pulse 2 Pri(us) 0 1730 1986 1451 0 1647 0	Pulse 3 Pri(us) 0 1123 1518 1257 0 0	Start Loc (us) 421505 1514801 3595803 4634071 6168553 8575513 10341266 10866387	Start Burst Interval(us) 0 1500000 3000000 4500000 6000000 7500000 9000000 10500000	End Burst Interval (us) 1499999 2999999 4499999 5999999 7499999 10499999 11999999
of Bursts st Interval st al number ( ************************************	= 8 (us)= 1500  Off Time (us) 421505  1091415  2077107  1033013  1530242  2405367  1762894  524110  off pulses in ***********************************	# Pulses  1 3 3 3 1 2 1 2 waveform = 1:	(MHz)  10  6  18  10  10  19  9  17	(us) 90 100 75 75 85 95 75 75	Pri(us)  1881  1042  1751  1532  1593  1212  1011  1641	Pri (us) 0 1730 1986 1451 0 1647 0 1592	Pri(us) 0 1123 1518 1257 0 0	(us) 421505 1514801 3595803 4634071 6168553 8575513 10341266	Interval (us) 0 1500000 3000000 4500000 6000000 7500000 9000000	Interval (us) 1499999 2999999 4499999 5999999 7499999 8999999
al number ( ***************  eform Num = of Bursts st Intervs	Off Time (us) 421505 1091415 2077107 1033013 1530242 2405367 1762894 524110 off pulses in ***********************************	# Pulses  1 3 3 3 1 2 1 2 waveform = 1:	(MHz)  10  6  18  10  10  19  9  17	(us) 90 100 75 75 85 95 75 75	Pri(us)  1881  1042  1751  1532  1593  1212  1011  1641	Pri (us) 0 1730 1986 1451 0 1647 0 1592	Pri(us) 0 1123 1518 1257 0 0	(us) 421505 1514801 3595803 4634071 6168553 8575513 10341266	Interval (us) 0 1500000 3000000 4500000 6000000 7500000 9000000	Interval (us) 1499999 2999999 4499999 5999999 7499999 8999999
al number ( ************************************	(us) 421505 421505 1091415 2077107 1033013 1530242 2405367 1762894 524110 of pulses in ***********************************	Pulses  1  3  3  1  2  1  2  waveform = 1'	(MHz)  10  6  18  10  10  19  9  17	(us) 90 100 75 75 85 95 75 75	Pri(us)  1881  1042  1751  1532  1593  1212  1011  1641	Pri (us) 0 1730 1986 1451 0 1647 0 1592	Pri(us) 0 1123 1518 1257 0 0	(us) 421505 1514801 3595803 4634071 6168553 8575513 10341266	Interval (us) 0 1500000 3000000 4500000 6000000 7500000 9000000	Interval (us) 1499999 2999999 4499999 5999999 7499999 8999999
**********  eform Num =   of Bursts   st Interval	421505 1091415 2077107 1033013 1530242 2405367 1762894 524110 of pulses in ***********************************	1 3 3 1 2 1 2 waveform = 1	10 6 18 10 10 19 9	90 100 75 75 85 95 75 75	1881 1042 1751 1532 1593 1212 1011 1641	0 1730 1986 1451 0 1647 0	0 1123 1518 1257 0 0	421505 1514801 3595803 4634071 6168553 8575513 10341266	0 1500000 3000000 4500000 6000000 7500000 9000000	1499999 2999999 4499999 5999999 7499999 8999999
=form Num = of Bursts st Interval	2077107 1033013 1530242 2405367 1762894 524110 of pulses in ************************************	3 3 1 2 1 2 waveform = 1:	6 18 10 10 19 9	100 75 75 85 95 75 75	1042 1751 1532 1593 1212 1011 1641	1730 1986 1451 0 1647 0	1123 1518 1257 0 0	1514801 3595803 4634071 6168553 8575513 10341266	1500000 3000000 4500000 6000000 7500000	2999999 4499999 5999999 7499999 8999999 10499999
=form Num = of Bursts st Interval	2077107 1033013 1530242 2405367 1762894 524110 of pulses in ************************************	3 1 2 1 waveform = 1'***********************************	18 10 10 19 9 17	75 75 85 95 75 75	1751 1532 1593 1212 1011 1641	1986 1451 0 1647 0 1592	1518 1257 0 0	3595803 4634071 6168553 8575513 10341266	300000 450000 600000 750000 900000	4499999 5999999 7499999 8999999
eform Num = of Bursts st Interval	1033013 1530242 2405367 1762894 524110 of pulses in ************************************	3 1 2 1 2 waveform = 1	10 10 19 9	75 85 95 75 75	1532 1593 1212 1011 1641	1451 0 1647 0 1592	1257 0 0 0	4634071 6168553 8575513 10341266	4500000 6000000 7500000 9000000	5999999 7499999 8999999 10499999
eform Num = of Bursts st Interval	1530242 2405367 1762894 524110 of pulses in ************************************	1 2 1 2 waveform = 1:	10 19 9 17	85 95 75 75 *******	1593 1212 1011 1641	0 1647 0 1592	0 0 0	6168553 8575513 10341266	6000000 7500000 9000000	7499999 8999999 10499999
eform Num = of Bursts st Interval	2405367 1762894 524110 of pulses in ************************************	1 2 1 2 waveform = 1:	10 19 9 17	85 95 75 75 *******	1593 1212 1011 1641	0 1647 0 1592	0 0 0	6168553 8575513 10341266	6000000 7500000 9000000	7499999 8999999 10499999
eform Num = of Bursts st Interval	1762894 524110 of pulses in ************************************	2 1 2 waveform = 1:	19 9 17	95 75 75 *******	1212 1011 1641	1647 0 1592	0	8575513 10341266	7500000 9000000	8999999 10499999
eform Num = of Bursts st Interval	1762894 524110 of pulses in ************************************	1 2 waveform = 1 ***********	9 17	75 75 ******	1011 1641 *******	0 1592	0	10341266	9000000	10499999
eform Num = of Bursts st Interval	524110 of pulses in ***********	2 waveform = 1 *********	17	75 ********	1641 *********	1592				
eform Num = of Bursts st Interval	24 = 17 (us) = 70588	waveform = 1 **********	5		*********		0	10866387	10500000	11999999
eform Num = of Bursts st Interval	: 24 = 17 (us)= 70588	waveform = 1 **********	5		*********		Ü	10000001	10300000	1133333
eform Num = of Bursts st Interval	: 24 = 17 : (us)= 70588 Off Time		*********			kolkolk				
	Off Time	32		Type !						
	Off Time	32		Type 5	- D1					
	Off Time	32		Type !	- D - J - 34					
	Off Time	32		IYDC	r Radar V	Vaveform	24			
	Off Time	32		71	Tradai V	· a · c · c · i	<u></u>			
	Off Time	32								
st										
	005110	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst E Interval(us) I	End Burst Interval(us)
	104779	1	9	70	1365	0	0	609715	0	705881
	836191	1	13	65	1470	0	0	715859	705882	1411763
	787356	2	12	50	1612	1237	0	1553520	1411764	2117645
	606554	1 2	6 14	75 80	1343 1975	0 1289	0	2343725 2951622	2117646 2823528	2823527 3529409
	860957	1	14	95	1482	0	o	3815843	3529410	4235291
	504870	3	18	100	1014	1257	1834	4322195	4235292	4941173
	627574 1058084	2	15	65	1846	1114	0	4953874	4941174	5647055
	645467	3	14	95	1085	1730	1048	6014918	5647056	6352937
	553125	1	10	60	1300	0	0	6664248	6352938	7058819
	605042	2	9	80	1503	1031	0	7218673	7058820	7764701
	1092861	2	14	60	1348	1267	0	7826249	7764702	8470583
	444404	2	7	65	1411	1224	0	8921725	8470584	9176465
	1120767	1	12 6	50 80	1423 1887	0	0	9368764 10490954	9176466 9882348	9882347 10588229
	336765	2	15	85	1961	1617	0	10490954	10588230	11294111
	873510	1	15	90	1382	0	0	11706694	11294112	11999993
ıl number o	of pulses in	waveform = 28					Ü	11100034	11204112	11000000
				Type !	5 Radar V	Vaveform	1 25			
				71						
form Num = of Bursts	= 25 = 20 L (us)= 6000	00								
it	Off Time	#	Chirp	PW	Pulse 1	Pulse 2	Pulse 3	Start Loc	Start Burst	End Burst
	(us) 12160	Pulses 3	(MHz) 9	(us) 65	Pri (us) 1133	Pri (us) 1055	Pri (us) 1090	(us) 12160	Interval (us)	Interval (us 599999
	1014427	3	14	95	1545	1772	1411	1029865	600000	1199999
	205294 1063128	2	13	60	1476	1192	o	1239887	1200000	1799999
	568065	1	7	60	1802	0	0	2305683	1800000	2399999
	393074	2	7	90 75	1051	1052	0	2875550	2400000 3000000	2999999
	632964	1	20 20	75 100	1051 1665	0	0	3270727 3904742	3600000	3599999 4199999
	833166	3	16	55	1415	1024	1688	4739573	4200000	4799999
	290387 768261	2	18	85	1841	1279	0	5034087	4800000	5399999
	233128	1	5	90	1134	0	o	5805468	5400000	5999999
	839882	3	12	85	1972	1941	1808	6039730 6885333	6000000	6599999 7199999
	594891	1 3	5 5	100 60	1685 1726	0 1326	0 1453	6885333 7481909	6600000 7200000	7199999 7799999
	360615	2	6	85	1094	1763	0	7847029	7800000	8399999
	1092210 572967	1	9	70	1913	0	o	8942096	8400000	8999999
	572967 596223	1	17	55	1824	О	О	9516976	9000000	9599999
	449874	3	15	80	1069	1099	1280	10115023	9600000	10199999
	794989	3	17 16	100 70	1374 1034	1307	1103 0	10568345 11367118	10200000 10800000	10799999 11399999
	484608	2 waveform = 3	20	60	1566	1536	0	11852760	11400000	11999999

FCC ID: 2ABLK-8X4G-1 Page Number: 101 of 114





				Type	5 Radar V	Vaveforn	n_26			
veform N	Num = 26									
rst Inte	erval (us)= 7500	#	Chirp	PW	Pulse 1	Pulse 2	Pulse 3	Start Loc	Start Burst	End Burst
	(us) 566471	Pulses	(MHz)	(us)	Pri(us)	Pri(us)	Pri(us)	(us)	Interval (us)	Interval (us)
	844888	2	9	75	1496	1317	0	566471	0	749999
	392151	1	12	100	1607	0	0	1414172	750000	1499999
	484997	3	7	60	1305	1972	1121	1807930	1500000	2249999
	884304	3	17	75 es	1271	1807	1979 0	2297325 3186686	2250000 3000000	2999999
	582699	1	6 12	65 65	1933 1731	0	0	3771318	3750000	3749999 4499999
	769320	1	7	100	1367	0	0	4542369	4500000	5249999
	992278	2	13	75	1511	1941	0	5536014	5250000	5999999
	867565	1	13	100	1490	0	0	6407031	6000000	6749999
1	487956	1	5	90	1344	0	0	6896477	6750000	7499999
	1210698	3	6	100	1873	1534	1575	8108519	7500000	8249999
	647032	3	9	60	1737	1682	1218	8760533	8250000	8999999
:	379790	2	7	100	1444	1552	0	9144960	9000000	9749999
1	1020847	1	5	55	1873	0	0	10168803	9750000	10499999
5	939376	2	9	60	1825	1055	0	11110052	10500000	11249999
-1	294363	3	16	75	1575	1526	1113	11407295	11250000	11999999
******	er of pulses ir	· waverorm — S				*				
				Type	5 Radar V	Vaveforn	n 27			
				71.						
	Num = 27									
	rsts = 9 erval (us)= 133	3333								
st	Off Time	#	Chirp	PW	Pulse 1	Pulse 2	Pulse 3	Start Loc	Start Burst	End Burst
SI	(us)	# Pulses	(MHz)	(us)	Pri(us)	Pri(us)	Pri(us)	(us)	Interval (us	
	959478									
	1243240	2	18	100	1061	1945	0	959478	0	1333332
		1	9	100	1980	0	0	2205724	1333333	2666665
	1419545	1	0	OE.	1005	0	0	9697940	900000	2000000
	1494422	1	8	85	1885	V	U	3627249	2666666	3999998
		2	11	55	1543	1368	0	5123556	3999999	5333331
	1211630	3	12	80	1109	1157	1890	6338097	5333332	6666664
	1278746	,	12	00	1103	1101	1830	0338031	3333332	F000000
	E1 EE A O	3	11	75	1115	1535	1630	7620999	6666665	7999997
	715508	1	10	95	1151	0	0	8340787	7999998	9333330
	2268254	-								2000000
	076576	1	9	65	1734	0	0	10610192	9333331	10666663
	276576	1	17	75	1560	0	0	10888502	10666664	11999996
al numb	er of pulses i	n waveform =	15		****		· ·	10000002	10000001	11000000
				Туре	5 Radar V	Vaveforn	n_28			
eform N	Num = 28 rsts = 14									
st Inte	erval (us)= 857	143	Chi-	Der	D.,1 1	D. 1 0	D. 1 2	Chart I	Chant P.	Frad D
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)
	356668	2	11	90	1417	1170	0	356668	0	857142
	991853	2	20	70	1813	1695	0	1351108	857143	1714285
	396977	1	10	85	1316	0	0	1751593	1714286	2571428
		3								3428571
	912472		16	85	1723	1984	1977	2665381	2571429	
	912472 1413553	1	6	75	1303	0	0	4084618	3428572	4285714
			17	60	1504	1097	0	4291051	4285715	5142857
	1413553 205130	2				1123	0	5391157	5142858	6000000
	1413553 205130 1097505		9	75	1497					
	1413553 205130 1097505 1141054	2		75 90	1497 1625	1105	0	6534831	6000001	6857143
	1413553 205130 1097505 1141054 878471	2	9				0	6534831 7416032	6000001 6857144	6857143 7714286
	1413553 205130 1097505 1141054 878471 574403	2 2 2 2	9 13 16	90 60	1625 1627	1105 1160	0	7416032	6857144	7714286
	1413553 205130 1097505 1141054 878471	2 2 2 2 3	9 13 16 13	90 60 55	1625 1627 1954	1105 1160 1836	0 1036	7416032 7993222	6857144 7714287	7714286 8571429
	1413553 205130 1097505 1141054 878471 574403	2 2 2 2 3 2	9 13 16 13 20	90 60 55 95	1625 1627 1954 1231	1105 1160 1836 1592	0 1036 0	7416032 7993222 8838109	6857144 7714287 8571430	7714286 8571429 9428572
!	1413553 205130 1097505 1141054 878471 574403 840061	2 2 2 2 3 2 3	9 13 16 13 20 8	90 60 55 95 90	1625 1627 1954 1231 1919	1105 1160 1836 1592 1033	0 1036 0 1351	7416032 7993222 8838109 9510029	6857144 7714287 8571430 9428573	7714286 8571429 9428572 10285715
)	1413553 205130 1097505 1141054 878471 574403 840061 669097	2 2 2 2 3 2	9 13 16 13 20	90 60 55 95	1625 1627 1954 1231	1105 1160 1836 1592	0 1036 0	7416032 7993222 8838109	6857144 7714287 8571430	7714286 8571429 9428572





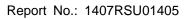
				Type	5 Radar V	Vaveforn	n_29			
m of Bu	Num = 29 rsts = 11 erval (us)= 1090	0909								
rst	Off Time	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Lo	c Start Bu Interval	
	261436	2	12	65	1643	1006	0	261436	0	1090908
	1577048	1	20	85	1595	0	0	1841133	1090909	9 2181817
	459048	2	8	60	1966	1263	0	2301776	2181818	3272726
	1928434	3	17	80	1777	1770	1147	4233439	327272	7 4363635
	1213057	1	19	75	1899	0	0	5451190	4363636	5 5454544
	778594	2	10	85	1027	1424	0	6231683	5454545	6545453
	1068665	2	7	100	1284	1105	0	7302799	654545	1 7636362
	691048	1	13	95	1111	0	0	7996236	7636363	8727271
	876746	1	14	60	1667	0	0	8874093	8727272	2 9818180
ı	947382	2	15	75	1780	1309	0	9823142	981818:	10909089
	2104232	2	20	90			•			
al numb	ber of pulses in	n waveform = 1	.9				0	1193046	3 1090909	90 11999998
		n waveform = 1	.9			***		1193046	3 109090;	90 11999988
tal num ******* nveform um of Bu urst Int	**************************************	n waveform = 1	9	Type	5 Radar V	**** Vaveforn	n_30			
al number****  veform m of Bu rst Int	Num = 30 ursts = 11 erval (us)= 1090 Off Time (us)	n waveform = 1 ************	.9			***		Start Loc	Start Burst Interval(us)	End Burst Interval(us)
al number****  veform m of Bu rst Int	Num = 30 rsts = 11 erval (us) = 1090 Off Time (us) 1073993	n waveform = 1	.9 ************************************	Type	5 Radar V	Vaveforn  Pulse 2	m_30	Start Loc	Start Burst	End Burst
al number****  veform m of Bu rst Int	Num = 30 ursts = 11 erval (us) = 1090 Off Time (us) 1073993 628349	n waveform = 1 ***********************************	9 ******  Chirp (MHz)	Type :	5 Radar V	Pulse 2 Pri(us)	m_30	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
al num ******* veform m of Bu rst Int	Num = 30 ursts = 11 erval (us)= 1090 Off Time (us) 1073993 628349 969621	# waveform = 1	9	Type :	Pulse 1 Pri (us)	Pulse 2 Pri (us)	m_30  Pulse 3 Pri(us) 0	Start Loc (us) 1073993	Start Burst Interval(us)	End Burst Interval(us) 1090908
al num ******* veform m of Bu rst Int	Num = 30 ursts = 11 verval (us) = 1090 Off Time (us) 1073993 628349 969621 629683	# waveform = 1	9  ***********************************	Type :	Pulse 1 Pri (us) 1370 1865	Pulse 2 Pri(us) 0	Pulse 3 Pri(us) 0	Start Loc (us) 1073993 1703712	Start Burst Interval (us) 0 1090909	End Burst Interval(us) 1090908 2181817
veform m of Bu rst Int	Num = 30 mrsts = 11 erval (us)= 1090 Off Time (us)= 1073993 628349 969621 629683 1229171	# waveform = 1	9 ************  Chirp (MHz) 5 20 13	Type :	Pulse 1 Pri (us) 1370 1865 1402	Pulse 2 Pri (us) 0 1999 1289	Pulse 3 Pri(us) 0 1231	Start Loc (us) 1073993 1703712 2678428	Start Burst Interval (us) 0 1090909 2181818	End Burst Interval (us) 1090908 2181817 3272726
veform m of Bu rst Int	Num = 30 mrsts = 11 erval (us)= 1090 Off Time (us)= 1073993 628349 969621 629683 1229171 1065014	######################################	Chirp (IHz) 5 20 13	Type :	Pulse 1 Pri (us) 1370 1865 1402 1037	Pulse 2 Pri(us) 0 1999 1289 0	Pulse 3 Pri(us) 0 1231 0 0	Start Loc (us) 1073993 1703712 2678428 3310802	Start Burst Interval (us) 0 1090909 2181818 3272727	End Burst Interval (us) 1090908 2181817 3272726 4363635
veform m of Bu rst Int	Num = 30 ursts = 11 erval (us)= 1090 Off Time (us) 1073993 628349 969621 629683 1229171 1065014 1414312	######################################	(hirp) (MHz) 5 20 13 10 15	Type:	Pulse 1 Pri(us) 1370 1865 1402 1037 1434	Pulse 2 Pri(us) 0 1999 1289 0	Pulse 3 Pri(us) 0 1231 0 0 0	Start Loc (us) 1073993 1703712 2678428 3310802 4541010	Start Burst Interval(us) 0 1090909 2181818 3272727 4363636	End Burst Interval (us) 1090908 2181817 3272726 4363635 5454544
al numbers and numbers are seen as a seen are	Num = 30 mrsts = 11 erval (us)= 1090 Off Time (us) 1073993 628349 969621 629683 1229171 1065014 1414312 1171928	n waveform = 1 ***********************************	(Chirp (MHz)) 5 20 13 10 15 15	Type:	Pulse 1 Pri(us) 1370 1865 1402 1037 1434 1270	Pulse 2 Pri(us) 0 1999 1289 0	Pulse 3 Pri(us) 0 1231 0 0 0 0	Start Loc (us) 1073993 1703712 2678428 3310802 4541010 5607458	Start Burst Interval(us) 0 1090909 2181818 3272727 4363636 5454545	End Burst Interval (us) 1090908 2181817 3272726 4363635 5454544 6545453
al nummine and nummine we form of Burrst Int	Num = 30 mrsts = 11 erval (us)= 1090 Off Time (us) 1073993 628349 969621 629683 1229171 1065014 1414312 1171928 681935	n waveform = 1 ***********************************	Chirp (MHz) 5 20 13 10 15 15 20	Type:  PW (us) 80 80 60 100 95 55	Pulse 1 Pri (us) 1370 1865 1402 1037 1434 1270	Pulse 2 Pri(us) 0 1999 1289 0 0 0	Pulse 3 Pri(us) 0 1231 0 0 0	Start Loc (us) 1073993 1703712 2678428 3310802 4541010 5607458 7023040	Start Buret Interval(us) 0 1090909 2181818 3272727 4363636 5454545 6545454	End Burst Interval (us) 1090908 2181817 3272726 4363635 5454544 6545453 7636362
tal num ******* aveform um of Bu	Num = 30 mrsts = 11 erval (us)= 1090 Off Time (us) 1073993 628349 969621 629683 1229171 1065014 1414312 1171928	######################################	Chirp (MHz) 5 20 13 10 15 15 20 5	Type:  PW (us) 80 80 60 100 95 55 80 90	Pulse 1 Pri (us) 1370 1865 1402 1037 1434 1270 1981	Pulse 2 Pri(us) 0 1999 1289 0 0 0 1583 1274	Pulse 3 Pri(us) 0 1231 0 0 0	Start Loc (us) 1073993 1703712 2678428 3310802 4541010 5607458 7023040 8198532	Start Burst Interval(us) 0 1090909 2181818 3272727 4363636 5454545 6545454 7636363	End Burst Interval (us) 1090908 2181817 3272726 4363635 5454544 6545453 7636362 8727271





Type 6 Radar Statistical Performance

Trail #	Test Freq.	1=Detection	Trail #	Test Freq.	1=Detection
	(MHz)	0=No Detection		(MHz)	0=No Detection
1	5530	1	16	5530	1
2	5530	1	17	5530	1
3	5530	1	18	5530	1
4	5530	1	19	5530	1
5	5530	1	20	5530	1
6	5530	1	21	5530	1
7	5530	1	22	5530	1
8	5530	1	23	5530	1
9	5530	1	24	5530	1
10	5530	1	25	5530	1
11	5530	1	26	5530	1
12	5530	1	27	5530	1
13	5530	1	28	5530	1
14	5530	1	29	5530	1
15	5530	1	30	5530	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)		
1	5501	3	7	5546	21		
7	5508	21	32	5507	96		
16	5538	48	37	5528	111		
24	5525	72	38	5555	114		
33	5531	99	40	5556	120		
46	5547	138	44	5544	132		
57	5559	171	50	5506	150		
58	5553	174	69	5504	207		
63	5502	189	81	5514	243		
72	5516	216	85	5505	255		
97	5535	291	86	5519	258		
F	Radar waveform #	3	F	Radar waveform #	4		
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)		
Number	(MHz)		Number	(MHz)			
2	5520	6	7	5536	21		
4	5537	12	11	5556	33		
8	5517	24	12	5500	36		
15	5535	45	16	5560	48		
25	5540	75	19	5553	57		
47	5523	141	35	5519	105		
52	5508	156	39	5525	117		
65	5505	195	61	5558	183		
67	5529	201	66	5509	198		
72	5553	216	72	5516	216		
80	5506	240	79	5546	237		
81	5558	243	86	5526	258		
83	5551	249					





ı	Radar waveform #	5	Radar waveform #6				
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)		
Number	(MHz)		Number	(MHz)			
4	5536	12	17	5502	51		
43	5526	129	25	5532	75		
53	5553	159	27	5509	81		
60	5520	180	34	5550	102		
62	5555	186	38	5529	114		
64	5503	192	40	5508	120		
78	5552	234	43	5537	129		
96	5548	288	53	5544	159		
			54	5543	162		
			56	5514	168		
			58	5534	174		
			59	5512	177		
			64	5531	192		
			66	5554	198		
			67	5530	201		
			68	5539	204		
			69	5523	207		
			70	5501	210		
			83	5518	249		
			97	5556	291		

FCC ID: 2ABLK-8X4G-1 Page Number: 106 of 114





F	Radar waveform #	7	Radar waveform #8				
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)		
Number	(MHz)		Number	(MHz)			
2	5545	6	6	5543	18		
4	5523	12	10	5534	30		
19	5549	57	14	5502	42		
32	5516	96	26	5523	78		
38	5517	114	34	5503	102		
49	5547	147	37	5516	111		
55	5531	165	49	5539	147		
59	5524	177	50	5558	150		
60	5535	180	57	5522	171		
64	5508	192	63	5530	189		
65	5510	195	67	5514	201		
72	5500	216	73	5512	219		
75	5555	225	77	5517	231		
93	5521	279	78	5507	234		
94	5553	282	79	5532	237		
98	5542	294	96	5535	288		
F	Radar waveform #	9	R	adar waveform #1	10		
Hopping	Frequency	Pulse Start (ms)	Frequency	Hopping	Pulse Start (ms)		
Number	(MHz)		(MHz)	Number			
1	5534	3	3	5557	9		
4	5556	12	9	5504	27		
12	5542	36	23	5508	69		
26	5513	78	24	5512	72		
32	5530	96	30	5546	90		
33	5529	99	34	5529	102		
37	5532	111	36	5527	108		
46	5512	138	37	5505	111		
64	5501	192	41	5523	123		
71	5524	213	43	5552	129		
77	5549	231	72	5514	216		
78	5545	234	76	5543	228		
97	5541	291	77	5501	231		
			84	5547	252		
			95	5555	285		

Page Number: 107 of 114



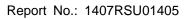


Radar waveform #11			Radar waveform #12			
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)	
Number	(MHz)		Number	(MHz)		
3	5554	9	4	5500	12	
10	5523	30	6	5560	18	
11	5507	33	12	5509	36	
13	5552	39	41	5502	123	
17	5500	51	48	5556	144	
28	5556	84	52	5551	156	
30	5516	90	60	5520	180	
35	5547	105	72	5547	216	
39	5528	117	78	5543	234	
40	5511	120	88	5514	264	
51	5557	153	98	5507	294	
67	5520	201	-			
69	5555	207				
84	5553	252				
R	adar waveform #1	13	Radar waveform #14			
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)	
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)	
		Pulse Start (ms)			Pulse Start (ms) 45	
Number	(MHz)		Number	(MHz)		
Number 3	(MHz) 5551	9	Number 15	(MHz) 5521	45	
Number 3 11	(MHz) 5551 5557	9 33	Number 15 22	(MHz) 5521 5532	45 66	
Number 3 11 14	(MHz) 5551 5557 5549	9 33 42	Number 15 22 38	(MHz) 5521 5532 5553	45 66 114	
Number  3  11  14  17	(MHz) 5551 5557 5549 5548	9 33 42 51	Number  15 22 38 46	(MHz) 5521 5532 5553 5535	45 66 114 138	
Number  3  11  14  17  22	(MHz) 5551 5557 5549 5548 5559	9 33 42 51 66	Number  15 22 38 46 50	(MHz) 5521 5532 5553 5535 5557	45 66 114 138 150	
Number  3  11  14  17  22  30	(MHz) 5551 5557 5549 5548 5559 5539	9 33 42 51 66 90	Number  15 22 38 46 50 55	(MHz) 5521 5532 5553 5535 5557 5505	45 66 114 138 150 165	
Number  3 11 14 17 22 30 43	(MHz) 5551 5557 5549 5548 5559 5539 5511	9 33 42 51 66 90 129	Number  15 22 38 46 50 55 56	(MHz) 5521 5532 5553 5535 5557 5505 5513	45 66 114 138 150 165 168	
Number  3 11 14 17 22 30 43 54	(MHz) 5551 5557 5549 5548 5559 5539 5511 5515	9 33 42 51 66 90 129 162	Number  15 22 38 46 50 55 56 61	(MHz) 5521 5532 5553 5555 5557 5505 5513 5551	45 66 114 138 150 165 168 183	
Number  3 11 14 17 22 30 43 54 59	(MHz) 5551 5557 5549 5548 5559 5539 5511 5515	9 33 42 51 66 90 129 162 177	Number  15 22 38 46 50 55 56 61 66	(MHz) 5521 5532 5553 5555 5557 5505 5513 5551 5517	45 66 114 138 150 165 168 183 198	
Number  3 11 14 17 22 30 43 54 59 61	(MHz) 5551 5557 5549 5548 5559 5539 5511 5515 5512 5540	9 33 42 51 66 90 129 162 177 183	Number  15 22 38 46 50 55 56 61 66 70	(MHz) 5521 5532 5553 5555 5557 5505 5513 5551 5517 5538	45 66 114 138 150 165 168 183 198 210	
Number  3 11 14 17 22 30 43 54 59 61 74	(MHz) 5551 5557 5549 5548 5559 5539 5511 5515 5512 5540 5525	9 33 42 51 66 90 129 162 177 183 222	Number  15 22 38 46 50 55 66 61 66 70 74	(MHz) 5521 5532 5553 5555 5557 5505 5513 5551 5517 5538 5516	45 66 114 138 150 165 168 183 198 210 222	
Number  3 11 14 17 22 30 43 54 59 61 74 86	(MHz) 5551 5557 5549 5548 5559 5539 5511 5515 5512 5540 5525 5531	9 33 42 51 66 90 129 162 177 183 222 258	Number  15 22 38 46 50 55 56 61 66 70 74 79	(MHz) 5521 5532 5553 5555 5557 5505 5513 5551 5517 5538 5516 5554	45 66 114 138 150 165 168 183 198 210 222 237	
Number  3 11 14 17 22 30 43 54 59 61 74 86 90	(MHz) 5551 5557 5549 5548 5559 5539 5511 5515 5512 5540 5525 5531 5508	9 33 42 51 66 90 129 162 177 183 222 258 270	Number  15 22 38 46 50 55 56 61 66 70 74 79 82	(MHz) 5521 5532 5553 5555 5557 5505 5513 5551 5517 5538 5516 5554 5525	45 66 114 138 150 165 168 183 198 210 222 237 246	





Radar waveform #15			Radar waveform #16			
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)	
Number	(MHz)		Number	(MHz)		
0	5559	0	4	5548	12	
1	5500	3	7	5504	21	
13	5540	39	9	5546	27	
14	5519	42	22	5516	66	
18	5531	54	53	5540	159	
27	5509	81	54	5514	162	
33	5542	99	58	5553	174	
52	5525	156	68	5508	204	
55	5507	165	69	5502	207	
71	5529	213	71	5523	213	
75	5537	225	75	5512	225	
83	5543	249	79	5535	237	
88	5555	264	87	5543	261	
89	5553	267	97	5513	291	
95	5546	285	99	5510	297	
96	5503	288				
99	5508	297				



Page Number: 110 of 114



R	Radar waveform #17			Radar waveform #28		
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)	
Number	(MHz)		Number	(MHz)		
2	5548	6	2	5520	6	
4	5510	12	4	5530	12	
5	5556	15	11	5560	33	
8	5522	24	12	5502	36	
11	5550	33	20	5507	60	
13	5506	39	34	5523	102	
28	5519	84	35	5555	105	
35	5500	105	49	5508	147	
39	5539	117	61	5536	183	
40	5552	120	78	5510	234	
52	5503	156	87	5514	261	
59	5520	177	98	5534	294	
60	5542	180				
61	5524	183				
70	5551	210				
72	5502	216				
82	5554	246	-1			





Radar waveform #19			Radar waveform #20			
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)	
Number	(MHz)		Number	(MHz)		
7	5557	21	0	5503	0	
12	5541	36	1	5540	3	
13	5522	39	3	5536	9	
14	5544	42	14	5546	42	
19	5539	57	29	5515	87	
24	5548	72	31	5517	93	
31	5552	93	41	5547	123	
37	5560	111	43	5507	129	
41	5500	123	64	5504	192	
59	5542	177	72	5520	216	
66	5510	198	75	5513	225	
85	5550	255	82	5560	246	
87	5521	261	93	5550	279	
			94	5548	282	
			97	5539	291	
R	adar waveform #2	21	R	adar waveform #2	22	
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)	
Number	(MHz)		Number	(MHz)		
3	5500	9	0	5507	0	
11	5560	33	16	5551	48	
13	5510	39	39	5532	117	
17	5513	51	69	5543	207	
26	5558	78	72	5547	216	
28	5505	84	78	5506	234	
43	5502	129	80	5537	240	
60	5526	180	93	5501	279	
64	5541	192	-			
70	5540	210				
78	5531	234				
82	5548	246				
97	5539	291				





Radar waveform #23			Radar waveform #24		
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)
Number	(MHz)		Number	(MHz)	
10	5531	30	0	5544	0
14	5533	42	2	5517	6
21	5520	63	15	5553	45
27	5544	81	25	5545	75
36	5542	108	46	5556	138
40	5538	120	48	5510	144
44	5543	132	58	5540	174
52	5549	156	66	5508	198
54	5527	162	68	5520	204
59	5517	177	70	5559	210
84	5554	252	76	5501	228
			77	5521	231
			87	5500	261
			95	5560	285
			99	5554	297
F	Radar waveform #2	5	Radar waveform #26		
Hopping	Frequency	Hopping	Frequency	Hopping	Frequency
Number	(MHz)	Number	(MHz)	Number	(MHz)
15	5530	45	3	5549	9
25	5526	75	10	5542	30
26	5508	78	12	5558	36
40	5540	120	17	5505	51
41	5542	123	37	5536	111
43	5541	129	38	5550	114
56	5502	168	42	5519	126
60	5522	180	91	5543	273
77	5547	231	97	5531	291

FCC ID: 2ABLK-8X4G-1 Page Number: 112 of 114





Radar waveform #27			Radar waveform #28			
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)	
Number	(MHz)		Number	(MHz)		
6	5505	18	14	5513	42	
9	5533	27	21	5518	63	
38	5534	114	22	5554	66	
39	5517	117	26	5526	78	
40	5536	120	28	5517	84	
46	5535	138	40	5550	120	
51	5522	153	48	5545	144	
53	5512	159	57	5521	171	
57	5508	171	70	5516	210	
73	5529	219	75	5538	225	
74	5549	222	83	5556	249	
90	5501	270	85	5535	255	
95	5546	285	91	5541	273	
98	5526	294	-			
R	adar waveform #2	29	Radar waveform #30			
Hopping	Frequency	Pulse Start (ms)	Hopping	Frequency	Pulse Start (ms)	
Number	(MHz)		Number	(MHz)		
0	5554	0	3	5550	9	
10	5545	30	5	5538	15	
12	5504	36	18	5532	54	
27	5555	81	24	5555	72	
37	5529	111	29	5516	87	
40	5541	120	31	5540	93	
44	5513	132	56	5521	168	
48	5538	144	59	5548	177	
55	5544	165	93	5507	279	
56	5553	168	98	5512	294	
64	5559	192	1	-		
65	5525	195				
84	5558	252				
87	5521	261				
88	5517	264				
89	5557	267				
98	5556	294				

Page Number: 113 of 114

Report No.: 1407RSU01405

## 6. CONCLUSION

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

The End

IC: 4009A-8X4G1

FCC ID: 2ABLK-8X4G-1