



**中认信通**

CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



## DFS TEST REPORT

**Applicant:** SHENZHEN TENDA TECHNOLOGY CO.,LTD.

**Address:** 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052

**FCC ID:** V7TRX12P2

**IC:** 9034A-RX12P

**HVIN:** RX12 Pro

**Product Name:** AX3000 Dual Band Gigabit Wi-Fi 6 Router

**Standard(s):** 47 CFR Part 15, Subpart E(15.407)

RSS-247 Issue 3, August 2023

FCC KDB 905462 D02 UNII DFS Compliance

Procedures New Rules v02

The above device has been tested and found compliant with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

**Report Number:** CR230957522-00D

**Date Of Issue:** 2023/11/28

**Reviewed By:** Julie Tan

Title: RF Engineer

*Julie Tan*

**Approved By:** Sun Zhong

Title: Manager

*Sun Zhong*

**Test Laboratory:** China Certification ICT Co., Ltd (Dongguan)

No. 113, Pingkang Road, Dalang Town, Dongguan,  
Guangdong, China

Tel: +86-769-82016888

## Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 442868, the FCC Designation No. : CN1314.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0123.

## Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol “▲”. Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

This report cannot be reproduced except in full, without prior written approval of the Company.

This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

This report may contain data that are not covered by the accreditation scope and shall be marked with an asterisk “★”.

# CONTENTS

<b>DOCUMENT REVISION HISTORY .....</b>	<b>4</b>
<b>1. GENERAL INFORMATION .....</b>	<b>5</b>
<b>1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT) .....</b>	<b>5</b>
<b>1.2 DESCRIPTION OF TEST CONFIGURATION.....</b>	<b>6</b>
1.2.1 EUT Operation Condition:.....	6
1.2.2 Support Equipment List and Details .....	11
1.2.3 Support Cable List and Details .....	11
1.2.4 Block Diagram of Test Setup.....	11
<b>2. SUMMARY OF TEST RESULTS .....</b>	<b>12</b>
<b>3. REQUIREMENTS AND TEST PROCEDURES .....</b>	<b>13</b>
<b>3.1 DFS REQUIREMENT.....</b>	<b>13</b>
<b>3.2 DFS MEASUREMENT SYSTEM.....</b>	<b>17</b>
<b>3.3 SYSTEM BLOCK DIAGRAM .....</b>	<b>17</b>
<b>3.4 TEST PROCEDURE .....</b>	<b>17</b>
<b>4. Test DATA AND RESULTS .....</b>	<b>18</b>
<b>4.1 RADAR WAVEFORM CALIBRATION.....</b>	<b>19</b>
<b>4.2 CHANNEL AVAILABILITY CHECK TIME (CAC).....</b>	<b>23</b>
4.2.1 Test Procedure .....	23
4.2.2 EUT Initial power-up Cycle Time .....	23
4.2.3 Results: .....	23
<b>4.3 CHANNEL MOVE TIME AND CHANNEL CLOSING TRANSMISSION TIME .....</b>	<b>26</b>
4.3.1 Test Procedure .....	26
4.3.2 Test Results.....	26
4.3.3 Results: .....	26
<b>4.4 NON-OCCUPANCY PERIOD.....</b>	<b>28</b>
4.4.1 Test Procedure .....	28
4.4.2 Test Result .....	28
<b>4.5 DETECTION BANDWIDTH .....</b>	<b>29</b>
4.5.1 Test Procedure .....	29
4.5.2 Test Result .....	29
<b>4.6 STATISTICAL PERFORMANCE CHECK .....</b>	<b>34</b>
4.6.1 Procedure: .....	34
4.6.2 Result: .....	35

**DOCUMENT REVISION HISTORY**

---

<b>Revision Number</b>	<b>Report Number</b>	<b>Description of Revision</b>	<b>Date of Revision</b>
1.0	CR230957522-00D	Original Report	2023/11/28

## 1. GENERAL INFORMATION

### 1.1 Product Description for Equipment under Test (EUT)

<b>EUT Name:</b>	AX3000 Dual Band Gigabit Wi-Fi 6 Router
<b>EUT Model:</b>	RX12 Pro
<b>Multiple Models:</b>	TX12 Pro,RX12,TX12
<b>Operation Frequency:</b>	5260-5320 MHz (802.11a/n ht20/ac vht20/ax he20) 5270-5310 MHz(802.11n ht40/ac vht40/ax he40) 5290 MHz(802.11ac vht80/ax he80) 5250 MHz(802.11ac vht160/ax he160)
<b>Maximum Average Output Power (Conducted):</b>	20.26dBm(5250-5350 MHz)
<b>Maximum Average Output Power (EIRP):</b>	29.23dBm (5250-5350 MHz)
<b>Modulation Type:</b>	802.11a/n/ac: OFDM-BPSK, QPSK, 16QAM, 64QAM 802.11ax: OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
<b>Rated Input Voltage:</b>	DC12V from adapter
<b>Serial Number:</b>	2BVX-1
<b>EUT Received Date:</b>	2023/10/9
<b>EUT Received Status:</b>	Good
Note: The Multiple models are electrically identical with the test model. Please refer to the declaration letter for more detail, which was provided by manufacturer.	

#### 1.1.1 Antenna Information Detail▲:

Antenna Chain	Manufacturer	Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain
5G Chain 0	SHENZHEN	Dipole	50	5250~5350MHz	5.97 dBi
5G Chain 1	TENDA	Dipole	50	5250~5350MHz	5.97 dBi
5G Chain 2	TECHNOLOGY CO.,LTD.	Dipole	50	5250~5350MHz	5.97 dBi

**Note:**

The device has 3 5GHz antennas, the system supports 2T2R only, the software determined to use any two antennas with good performance.

Beamforming and Non-beamforming(CDD) modes at 802.11n/ac/ax modes.

Per KDB 662911 D01 Multiple Transmitter Output v02r01:

CDD Mode:

Array Gain = 0 dB (i.e., no array gain) for  $N_{ANT} \leq 4$

directional gain=5.97 dBi for 5250-5350MHz

Beamforming Mode:

Array Gain =  $10 \log(N_{ANT}/N_{SS})$  dB.

directional gain=5.97 dBi+3dB=8.97dBi for 5250-5350MHz

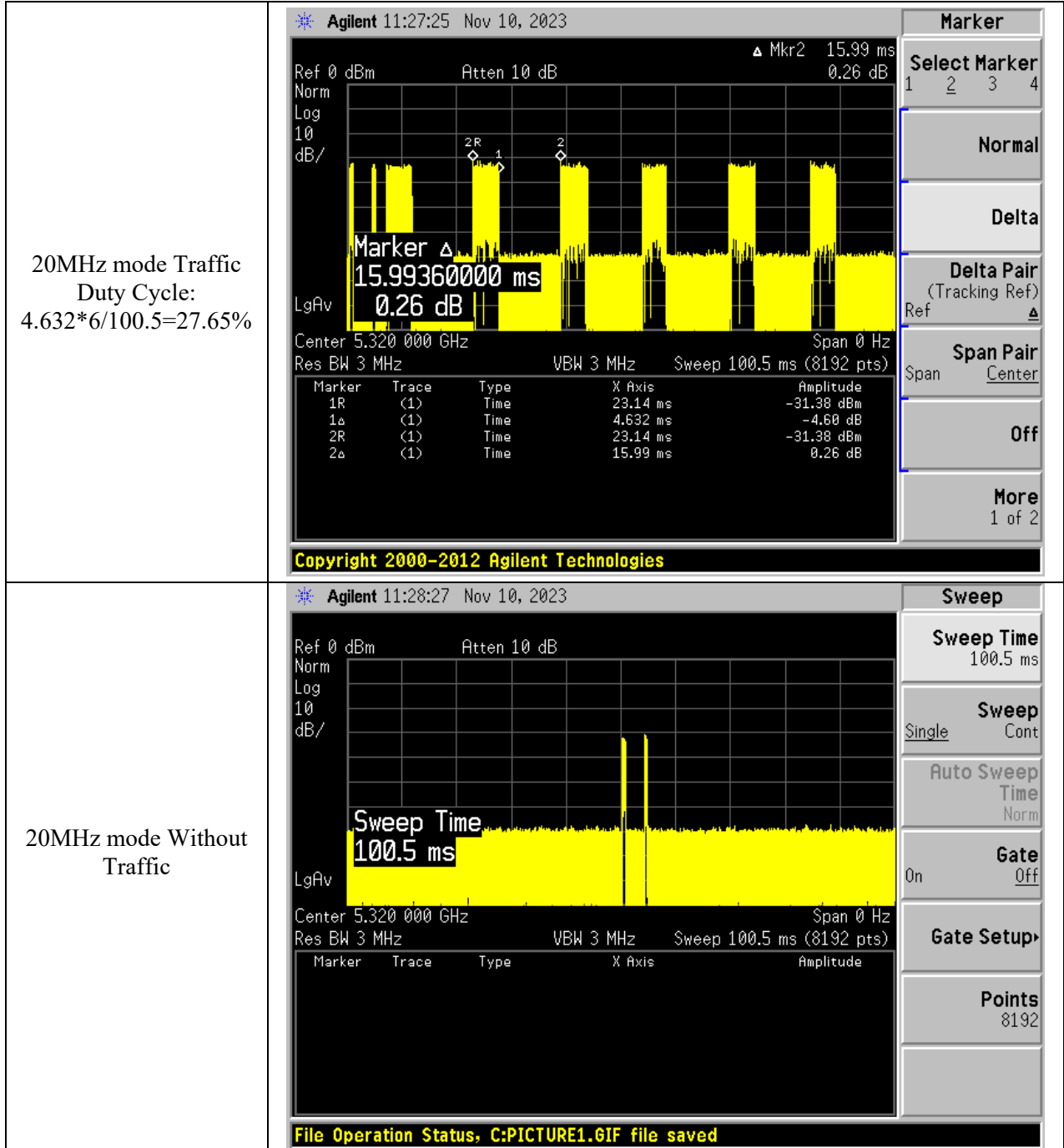
#### 1.1.2 Accessory Information:

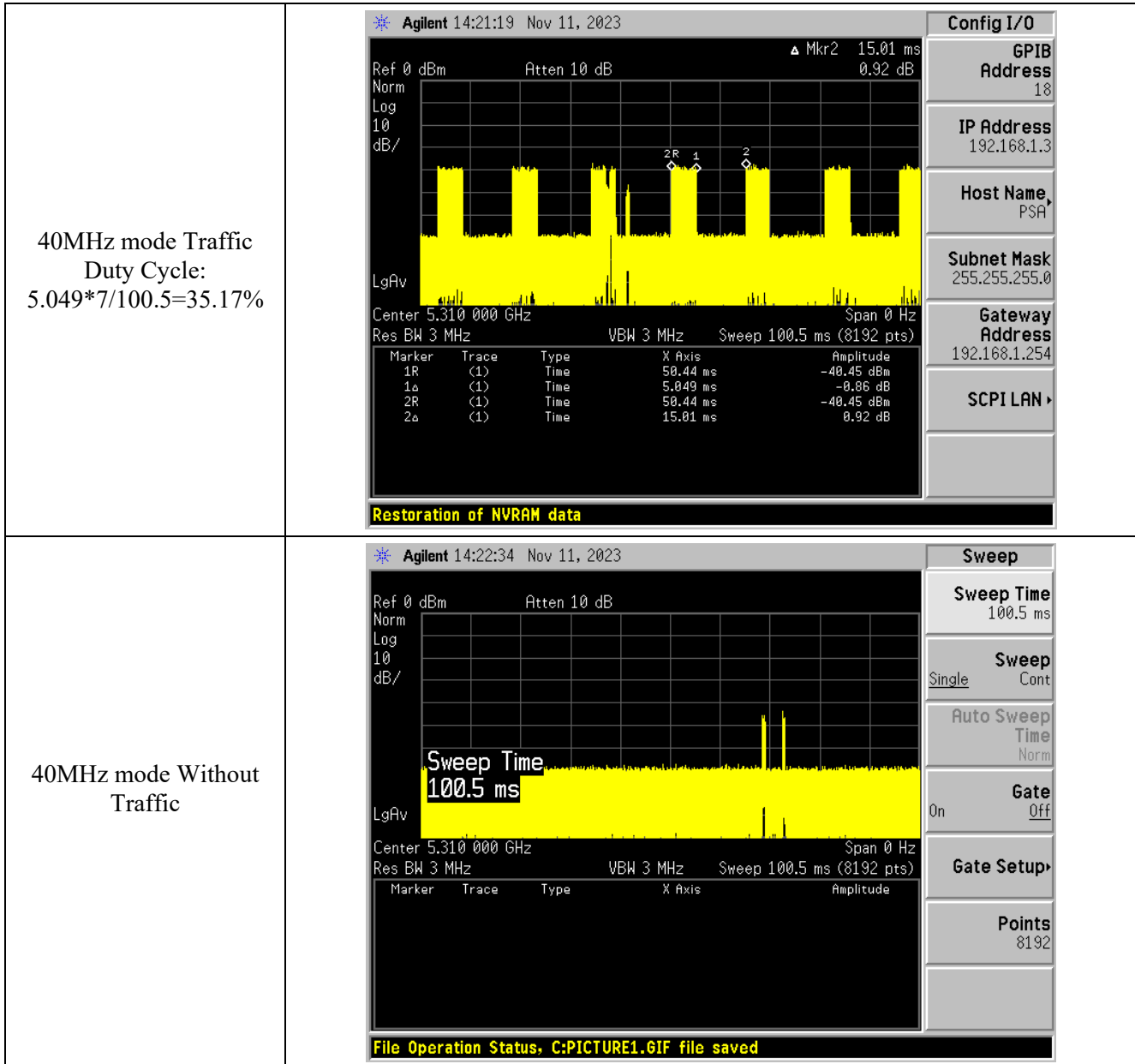
Accessory Description	Manufacturer	Model	Parameters
Adapter	SHENZHEN HEWEISHUN NETWORK TECHNOLOGY CO.,LTD.	BN073-A12012U	Input: 100-240V~50/60Hz, 0.4A Output: 12V, 1A, 12.0W

## 1.2 Description of Test Configuration

### 1.2.1 EUT Operation Condition:

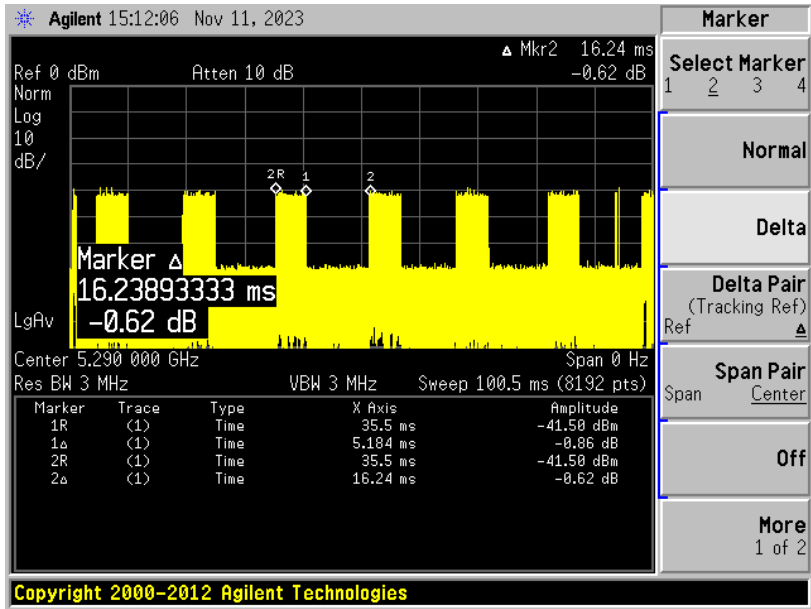
<b>EUT Operation Mode:</b>	The system was configured for testing in Engineering Mode, which was provided by the manufacturer.	
<b>Equipment Modifications:</b>	No	
<b>EUT Exercise Software:</b>	Tfgen	
The software was provided by manufacturer▲. The below mode and data rate was used when testing:		
<b>Bandwidth</b>	<b>Modes</b>	<b>Data Rate</b>
20MHz	802.11ax he20	MCS0
40MHz	802.11ax he40	MCS0
80MHz	802.11ax he80	MCS0
160MHz	802.11ax he160	MCS0
WLAN traffic is generated by software “Tfgen”, software is used by IP and Frame based systems for loading the test channel during the In-service compliance testing of the U-NII device. Data pakge streamed from the Access Point to the Client using the software “Tfgen”. The following duty cycle was used when test:		



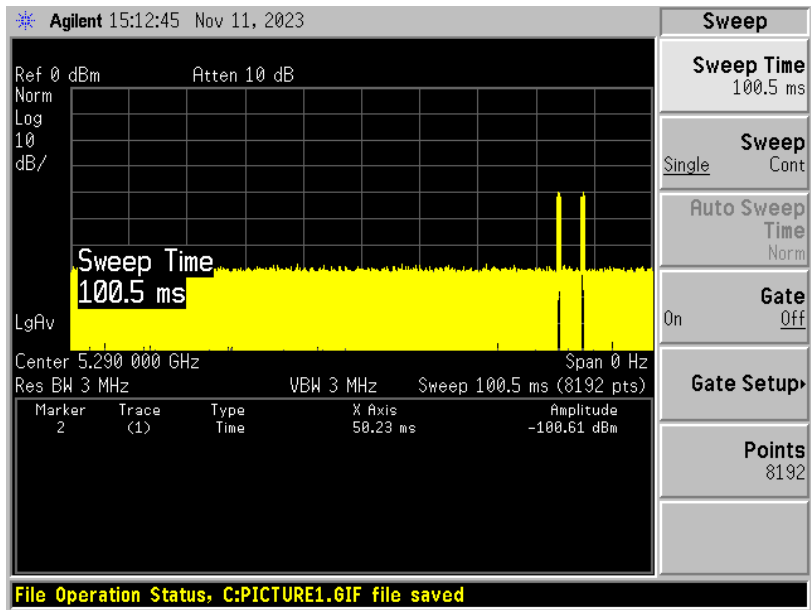




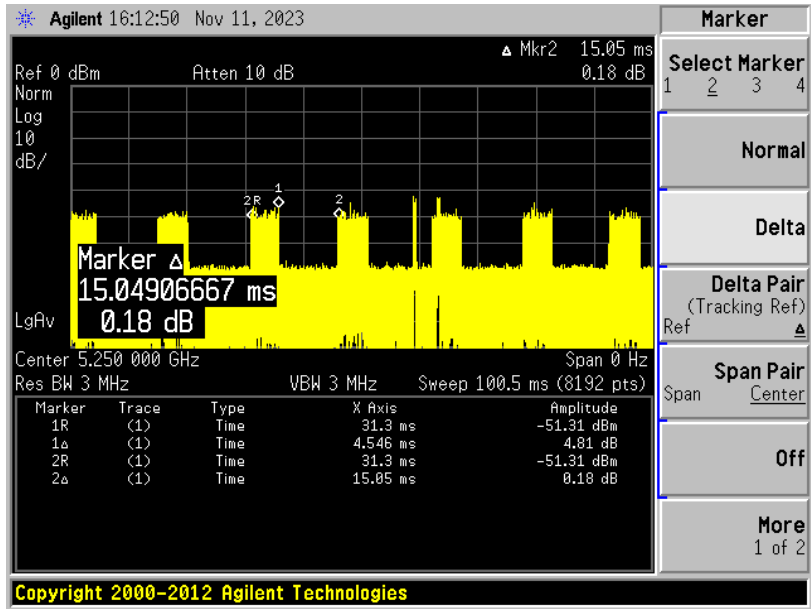
80MHz mode Traffic  
 Duty Cycle:  
 $5.184 * 6 / 100.5 = 30.95\%$



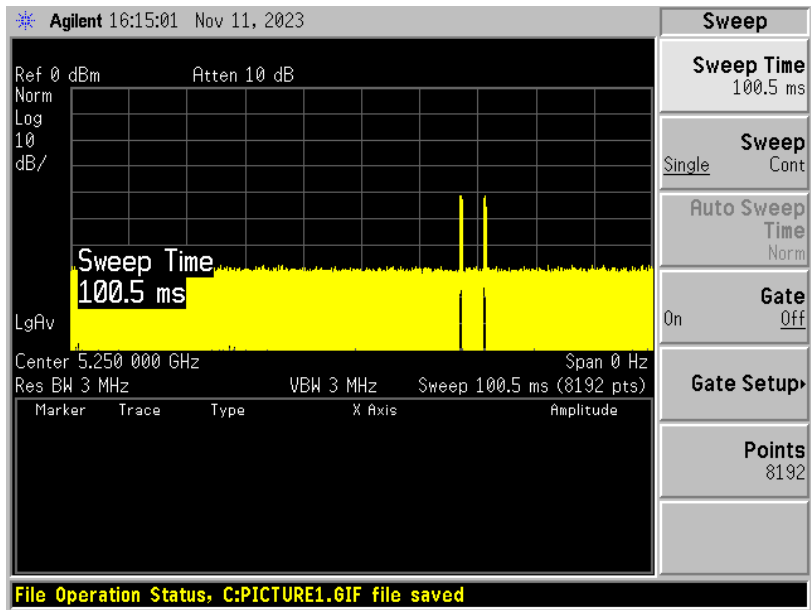
80MHz mode Without  
 Traffic



160MHz mode Traffic  
 Duty Cycle:  
 $4.546 * 7 / 100.5 = 31.66\%$



160MHz mode Without  
 Traffic

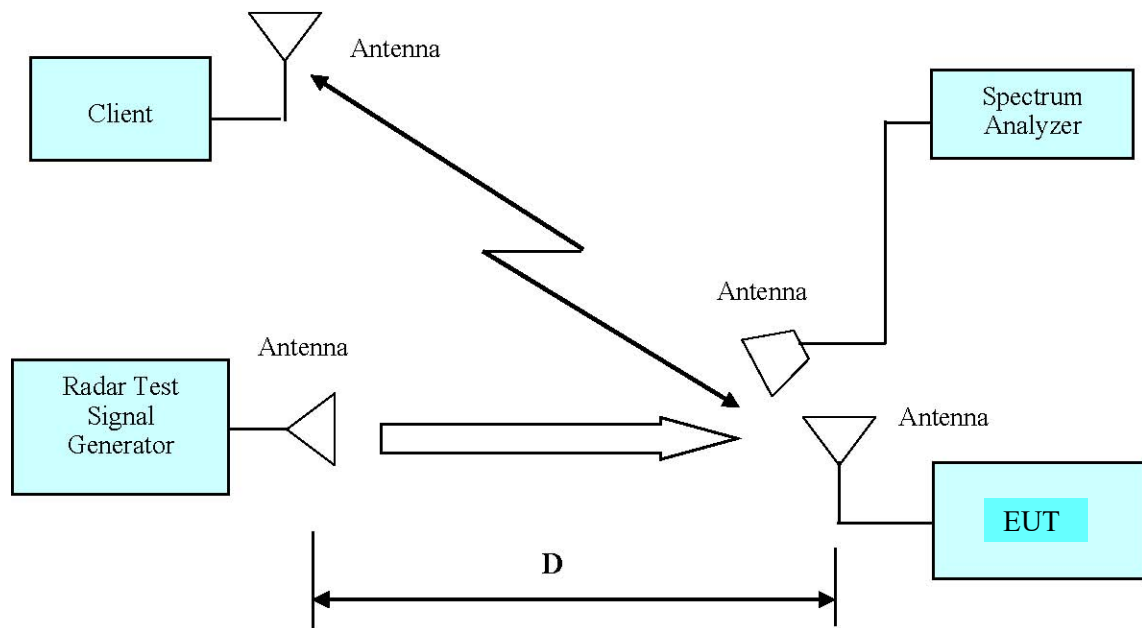


**1.2.2 Support Equipment List and Details**

Manufacturer	Description	Model	Serial Number
Lenovo	Laptop	T430	AA887-03
Asustek	Laptop	FX504G	J6NRCX014047232

**1.2.3 Support Cable List and Details**

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
/	/	/	/	/	/

**1.2.4 Block Diagram of Test Setup**

## 2. SUMMARY OF TEST RESULTS

The following result table represents the list of measurements required under the CFR §47 Part 15.407(h)& RSS-247, KDB: 905462 D02 UNII DFS Compliance Procedures New Rules v02

Items	Description of Test	Result
Detection Bandwidth	UNII Detection Bandwidth	Compliant
Performance Requirements Check	Initial Channel Availability Check Time (CAC)	Compliant
	Radar Burst at the Beginning of the CAC	Compliant
	Radar Burst at the End of the CAC	Compliant
In-Service Monitoring	Channel Move Time	Compliant
	Channel Closing Transmission Time	Compliant
	Non-Occupancy Period	Compliant
Radar Detection	Statistical Performance Check	Compliant

### 3. REQUIREMENTS AND TEST PROCEDURES

#### 3.1 DFS Requirement

CFR §47 Part 15.407(h)& RSS-247

FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

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

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

**Table 2: Applicability of DFS requirements during normal operation**

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

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

**Note:** Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

**Table 3: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection**

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP $\geq$ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
<p><b>Note 1:</b> This is the level at the input of the receiver assuming a 0 dBi receive antenna.</p> <p><b>Note 2:</b> 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.</p> <p><b>Note 3:</b> EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.</p>	

**Table 4: DFS Response Requirement Values**

Parameter	Value
<i>Non-occupancy period</i>	Minimum 30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds See Note 1.
<i>Channel Closing Transmission Time</i>	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
<i>U-NII Detection Bandwidth</i>	Minimum 100% of the U- NII 99% transmission power bandwidth. See Note 3.
<p><b>Note 1:</b> <i>Channel Move Time</i> and the <i>Channel Closing Transmission Time</i> should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.</p> <p><b>Note 2:</b> The <i>Channel Closing Transmission Time</i> is comprised of 200 milliseconds starting at the beginning of the <i>Channel Move Time</i> plus any additional intermittent control signals required to facilitate a <i>Channel move</i> (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.</p> <p><b>Note 3:</b> During the <i>U-NII Detection Bandwidth</i> detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.</p>	

**Table 5 – Short Pulse Radar Test Waveforms**

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

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

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

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

**Table 5a - Pulse Repetition Intervals Values for Test A**

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

The aggregate is the average of the percentage of successful detections of Short Pulse Radar Types 1-4. For example, the following table indicates how to compute the aggregate of percentage of successful detections.

Radar Type	Number of Trials	Number of Successful Detections	Minimum Percentage of Successful Detection
1	35	29	82.9%
2	30	18	60%
3	30	27	90%
4	50	44	88%
Aggregate $(82.9\% + 60\% + 90\% + 88\%)/4 = 80.2\%$			



**Table 6 – Long Pulse Radar Test Waveform**

Radar Type	Pulse Width ( $\mu\text{sec}$ )	Chirp Width (MHz)	PRI ( $\mu\text{sec}$ )	Number of Pulses per <i>Burst</i>	Number of <i>Bursts</i>	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

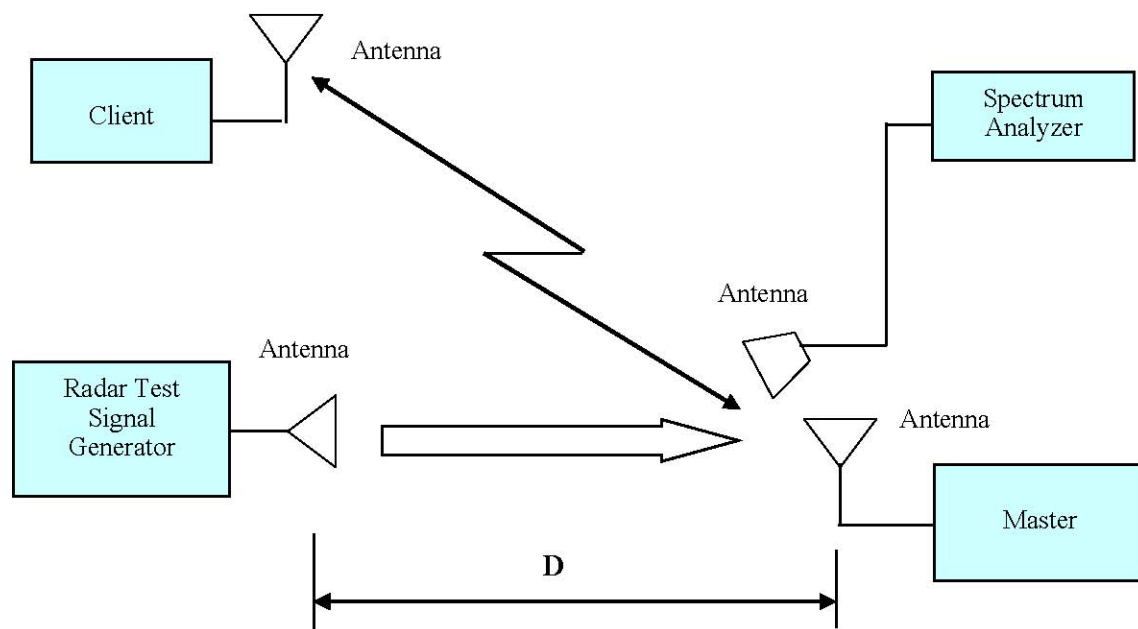
**Table 7 – Frequency Hopping Radar Test Waveform**

Radar Type	Pulse Width ( $\mu\text{sec}$ )	PRI ( $\mu\text{sec}$ )	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

### 3.2 DFS Measurement System

BACL DFS measurement system consists of two subsystems: (1) The radar signal generating subsystem and (2) the traffic monitoring subsystem.

### 3.3 System Block Diagram



### 3.4 Test Procedure

A spectrum analyzer is used as a monitor verifies that the EUT status including Channel Closing Transmission Time and Channel Move Time, and does not transmit on a Channel during the Non-Occupancy Period after the detection and Channel move. It is also used to monitor EUT transmissions during the Channel Availability Check Time.

#### 4. Test DATA AND RESULTS

Serial Number:	2BVX-1	Test Date:	2023/11/10~2023/11/22
Test Site:	RF	Test Mode:	Transmitting
Tester:	Jou Zhou	Test Result:	Pass

#### Environmental Conditions:

Temperature: (°C)	26.1~25.7	Relative Humidity: (%)	48~42	ATM Pressure: (kPa)	101.1~101
----------------------	-----------	------------------------------	-------	------------------------	-----------

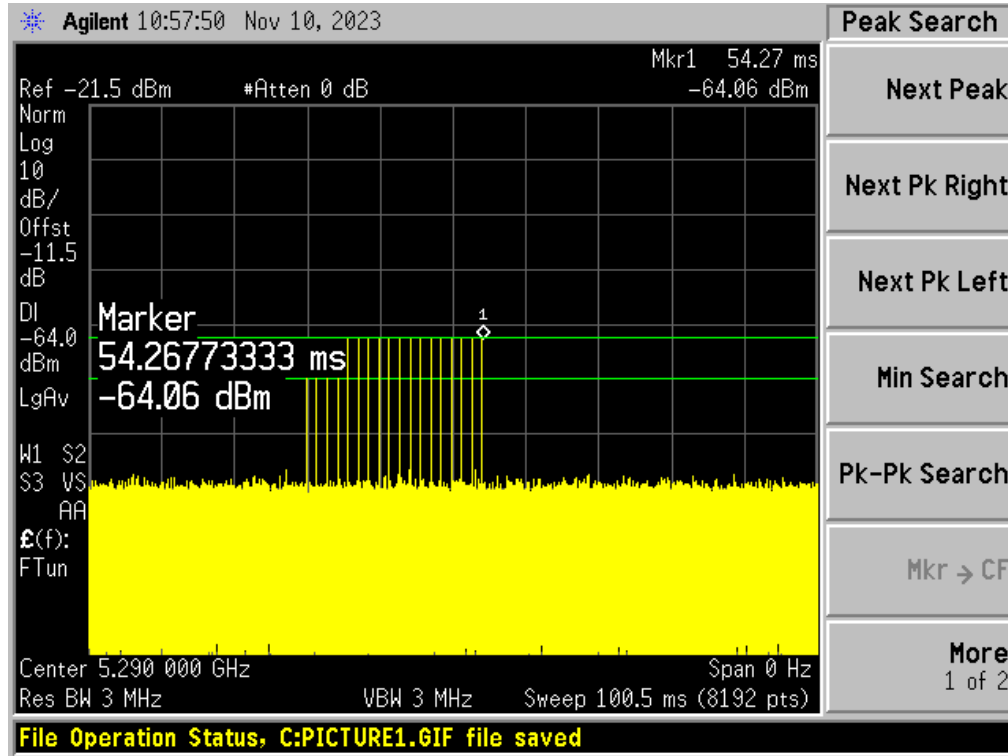
#### Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
National Instruments	NI PXI-1042 8-Slot chassis	PXI-1042	VOBX40FBD	N/A	N/A
National Instruments	Arbitrary Waveform Generator	PXI-5421	N/A	N/A	N/A
National Instruments	RF Upconverter	PXI-5610	N/A	N/A	N/A
ASCOR	Upconverter	AS-7202	N/A	N/A	N/A
Agilent	Spectrum Analyzer	E4440A	SG43360054	2023/3/31	2024/3/30
Ditorn	Splitter/Combiner	D3C4080	SN2244	N/A	N/A
TDK RF	horn antenna	HRN-0118	130 084	2021/10/12	2024/10/11
AH	Double Ridge Guide Horn Antenna	SAS-571	1394	2023/2/22	2026/2/21

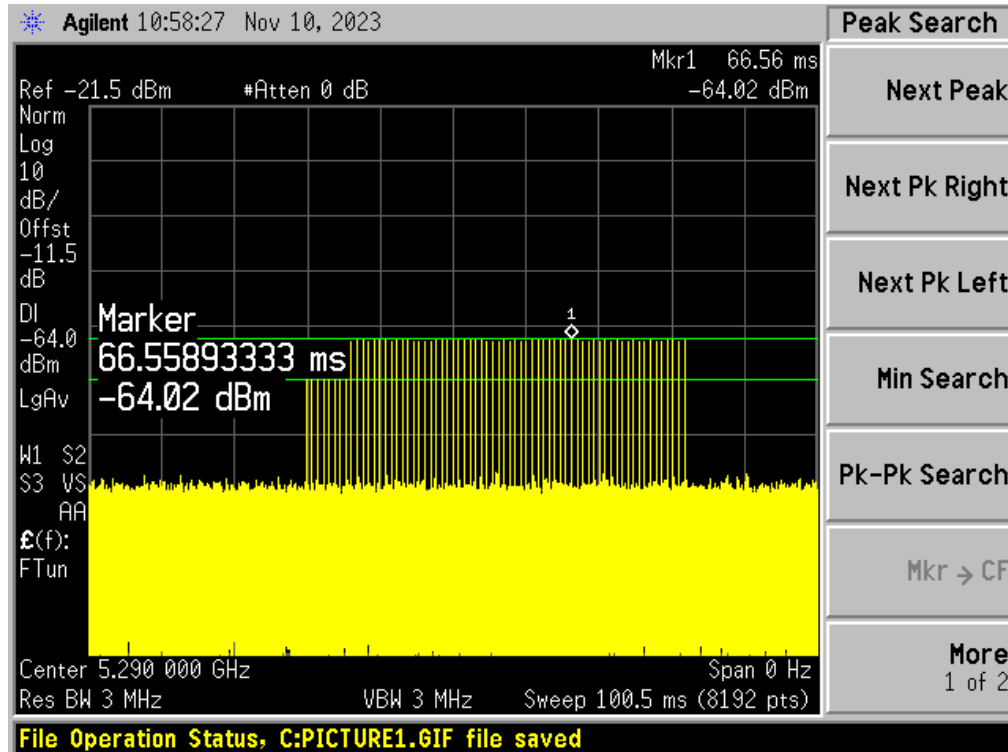
\* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

### 4.1 Radar Waveform Calibration 5290MHz:

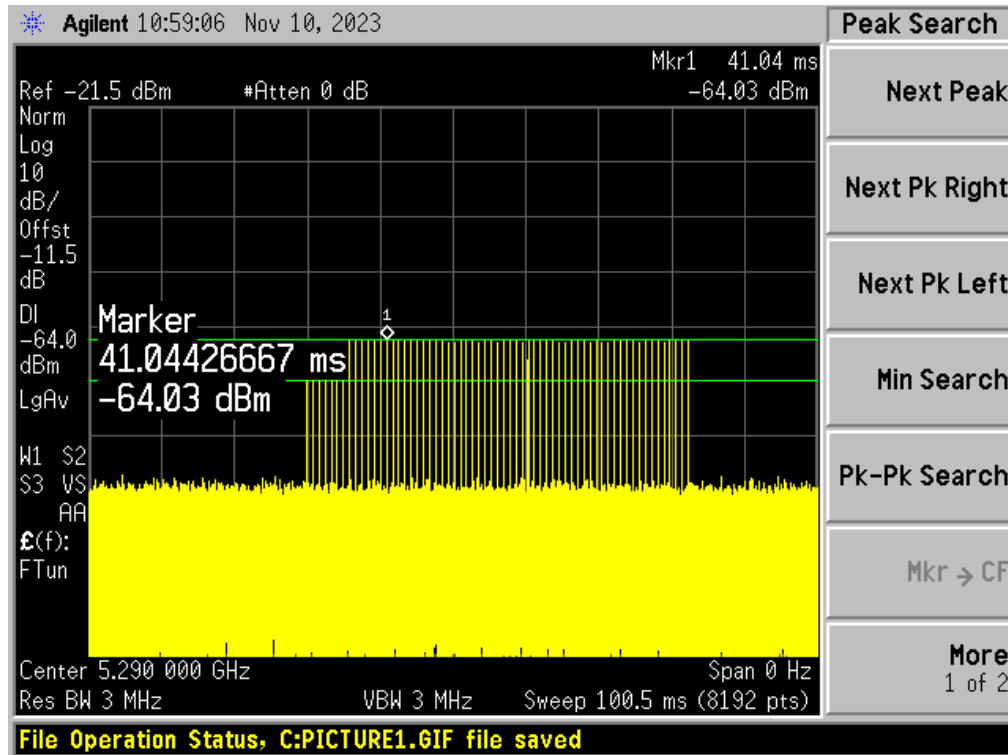
#### Radar Type 0



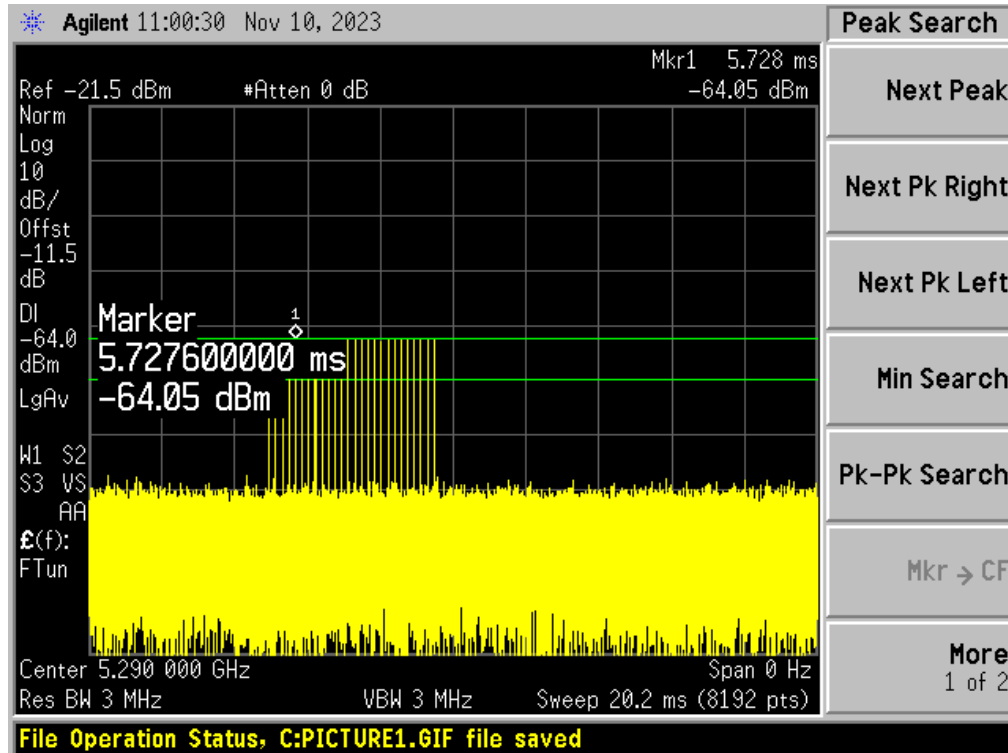
#### Radar Type 1A



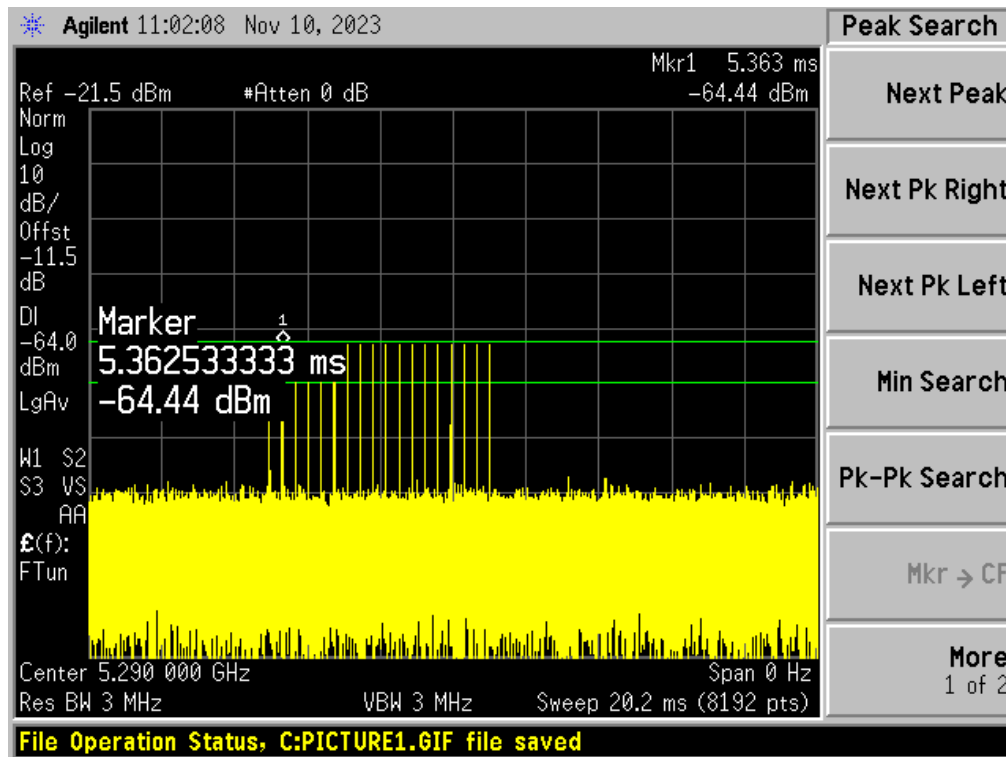
### Radar Type 1B



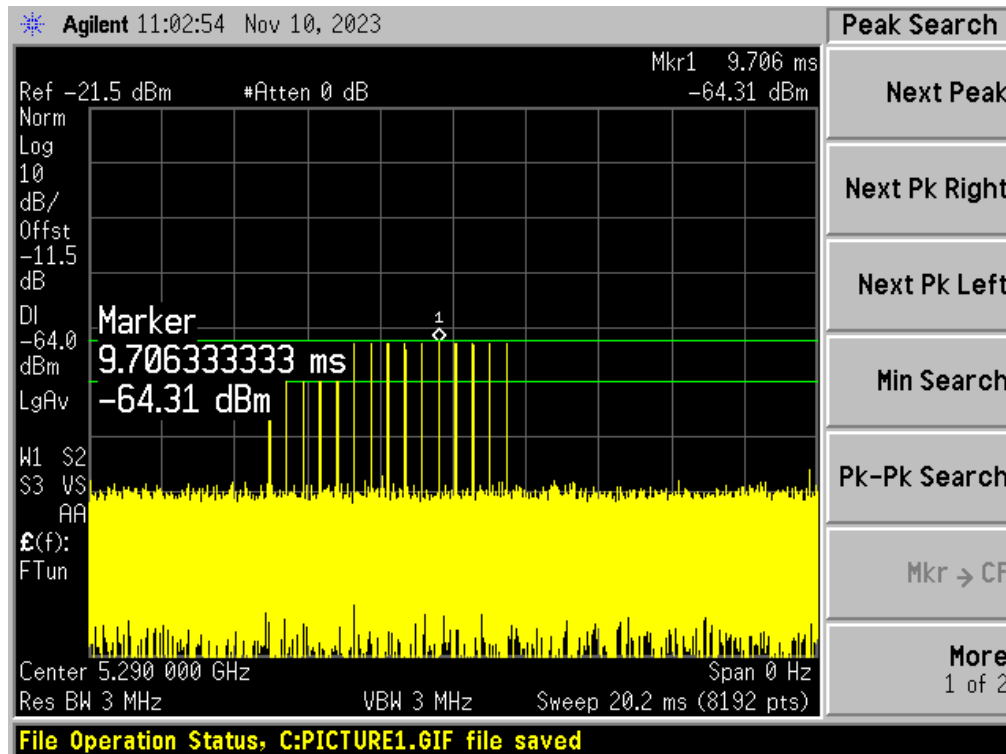
### Radar Type 2



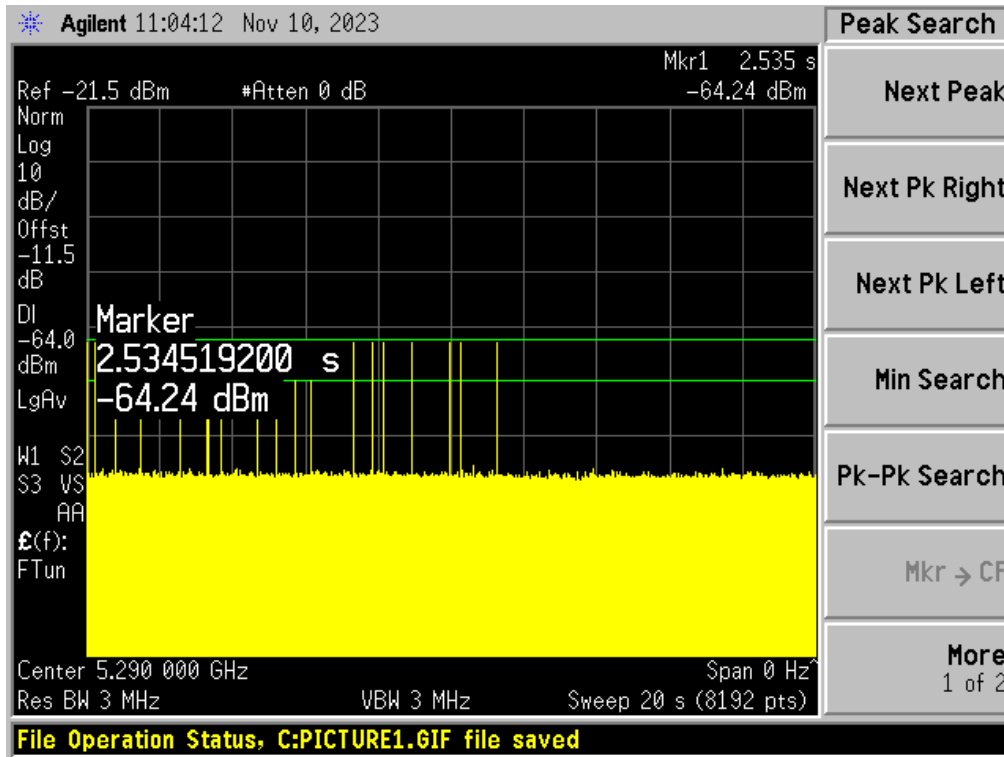
### Radar Type 3



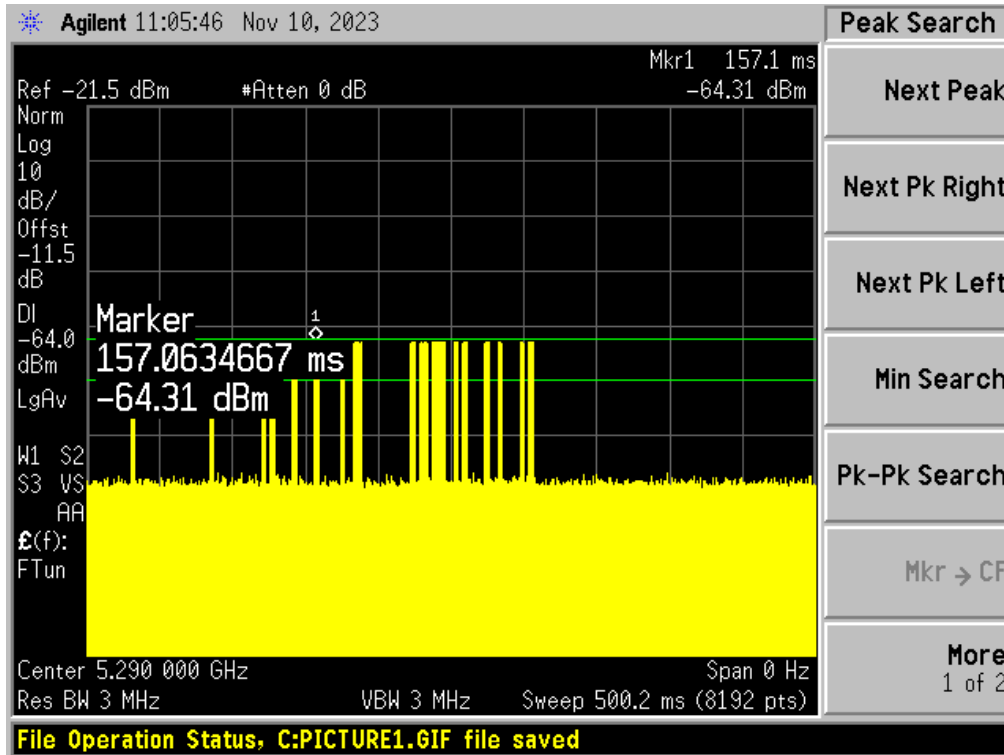
### Radar Type 4



### Radar Type 5



### Radar Type 6



## 4.2 Channel Availability Check Time (CAC)

### 4.2.1 Test Procedure

- 1) Channel Availability Check Time (CAC)
- 2) With link established on channel, apply a radar signal within 0~6 seconds after the initial power-up period; monitor the transmissions on channel from the spectrum analyzer.
- 3) Reboot EUT, with a link established on channel, apply a radar signal within 54~60 seconds after the initial power-up period, and monitor the transmission on channel from the spectrum analyzer.

### 4.2.2 EUT Initial power-up Cycle Time

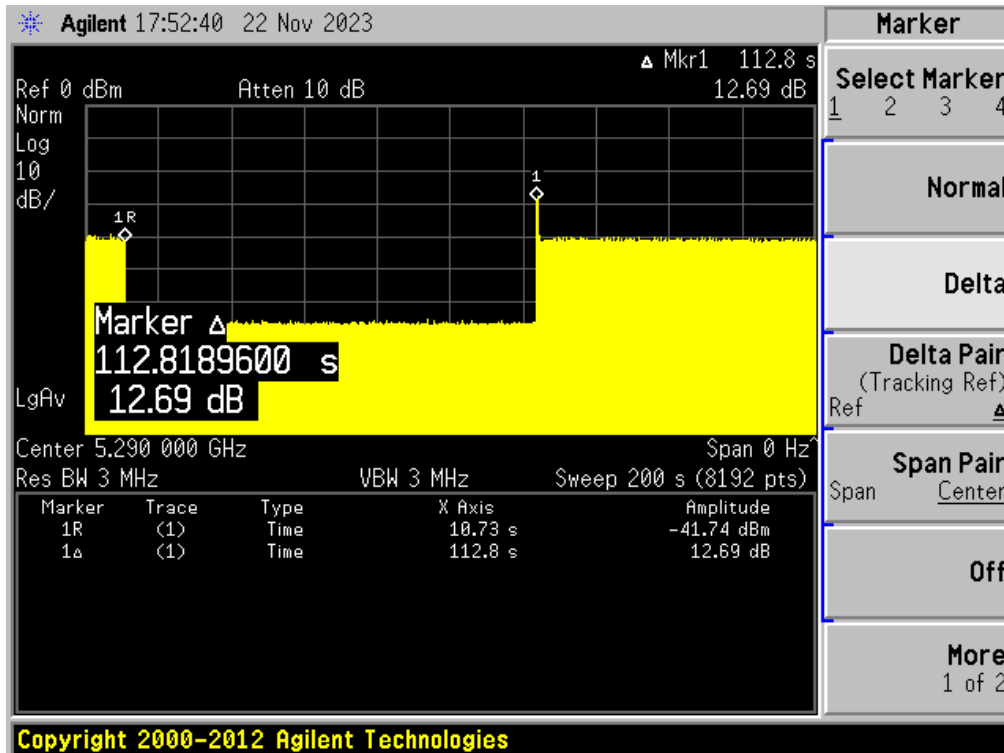
Test Frequency (MHz)	EUT initial Power-up cycle (Second)
5290	52.8

### 4.2.3 Results:

Timing of Radar Burst	Spectrum Analyzer Display
No Radar Triggered	Transmission begin after power-up cycle +60 seconds CAC
Within 6 seconds of the CAC starting	No transmission
Within the last 6 seconds of the CAC	No transmission

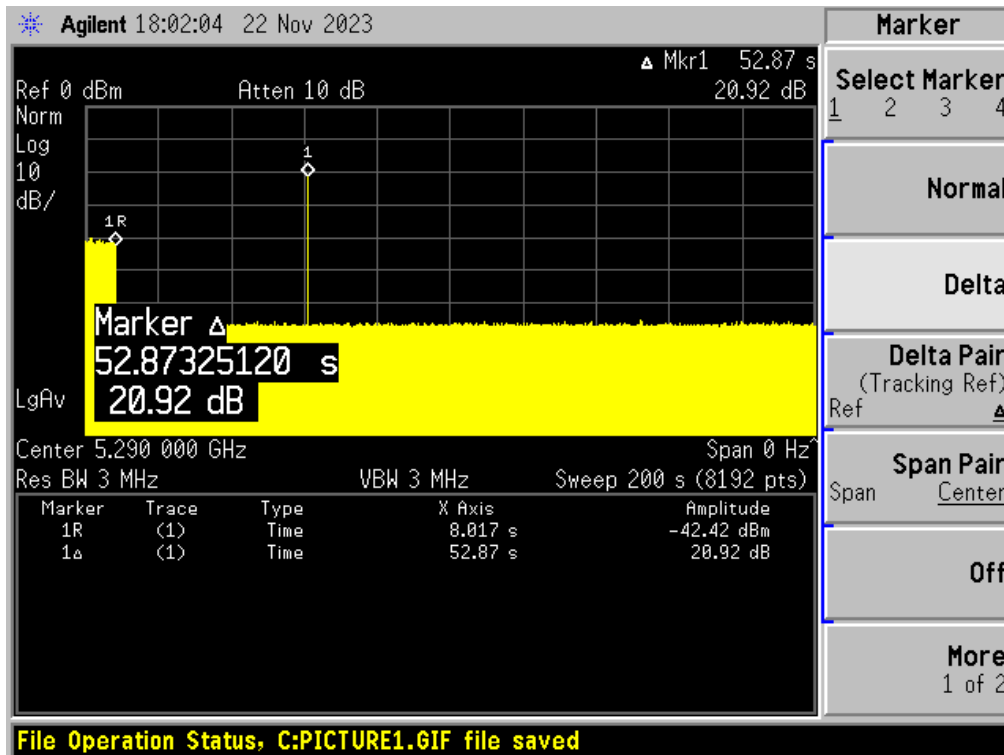
Please refer to the following plots.

**Plot of without Radar signal applied**



Note: The power-up cycle is 52.8 seconds.

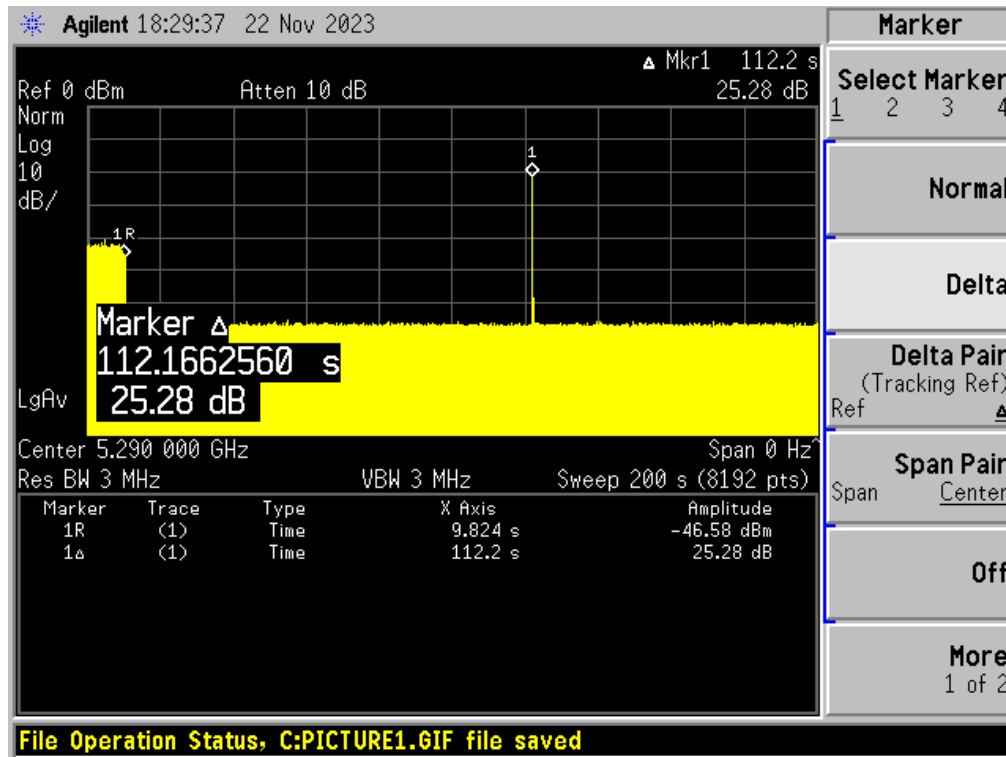
**Plot of Radar signal applied within 6 seconds of start of CAC**



No transmissions found after radar signal applied.



**Plot of Radar signal applied at the end of 6 seconds of CAC**



No transmissions found after radar signal applied.

### 4.3 Channel Move Time And Channel Closing Transmission Time

#### 4.3.1 Test Procedure

Perform type 0 short pulse radar waveform.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time = N\*Dwell Time

N is the number of spectrum analyzer bins showing a device transmission Dwell Time is the dwell time per bin (i.e. Dwell Time = S/B, S is the sweep time and B is the number of bin, i.e. 8192)

#### 4.3.2 Test Results

Test Frequency (MHz)	Bandwidth (MHz)	Radar Type	Results
5250 (Radar Frequency is 5290 MHz)	160	Type 0	Compliant

Please refer to the following tables and plots.

#### 4.3.3 Results:

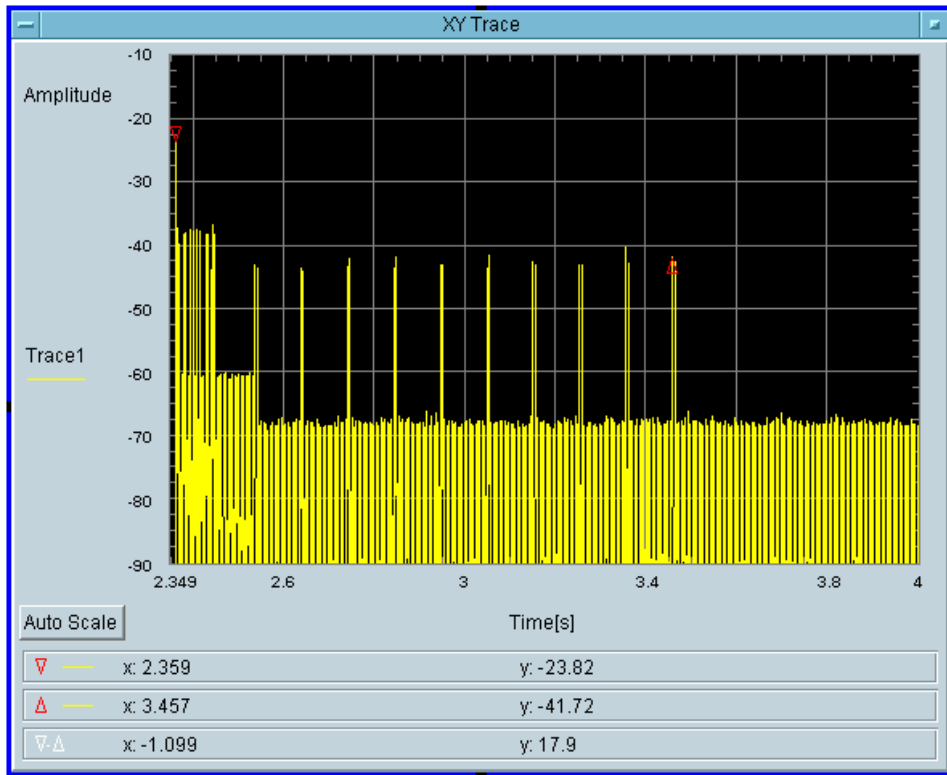
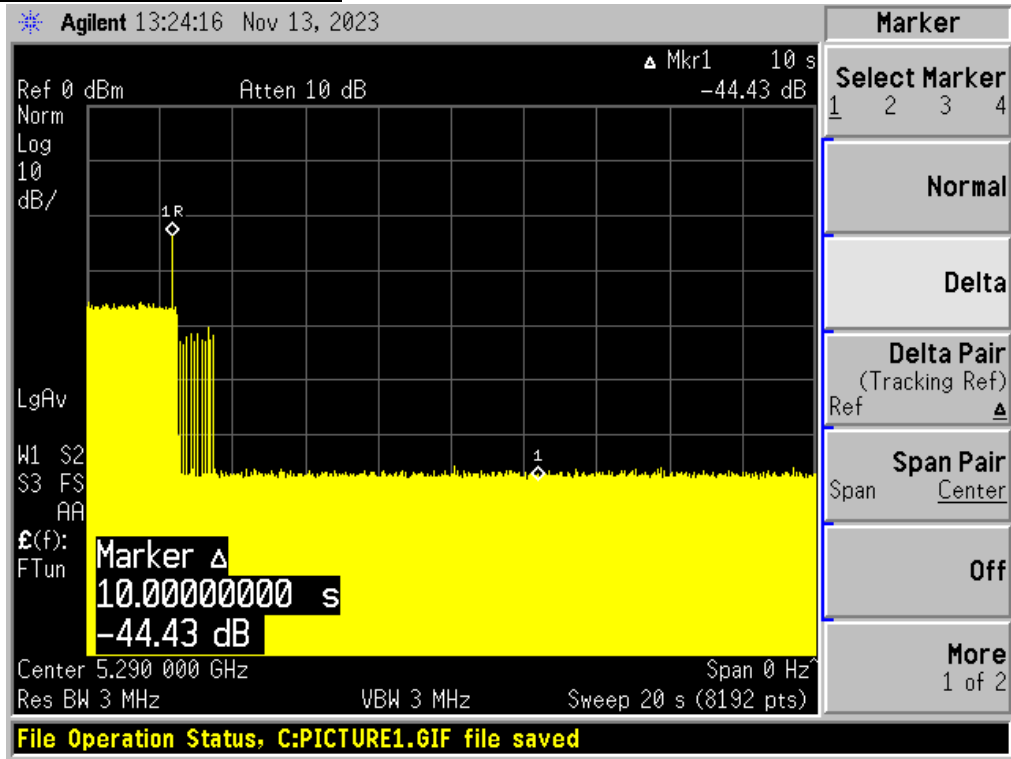
Type 0 radar channel move time result:

Channel Move Time (s)	Channel Move Time Limit (s)	Result
1.099	10	Pass

Type0 radar channel closing transmission time result:

Transmission After 200ms	Aggregate Transmission Time After 200ms Delay (ms)	Limit for Aggregate Transmission Time After 200ms Delay (ms)	Result
Yes	43.95	60	Pass

Type 0 radar channel move time result:



Total On Time [s]

0.1367

Total On Time After Delay [s]

43.95m

### 4.4 Non-occupancy Period

#### 4.4.1 Test Procedure

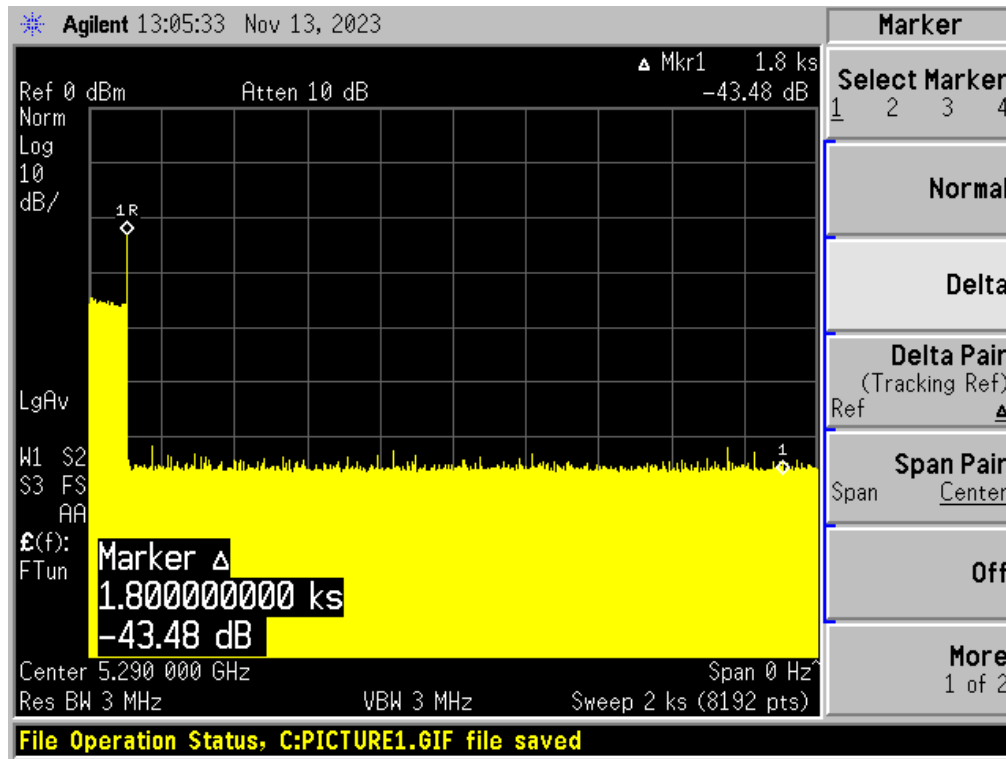
Measure the EUT for more than 30 minutes following the channel close/move time to very that the EUT does not resume any transmissions on this channel. Provide one plot to demonstrate no transmission on the channel for the non-occupancy period (30 minutes observation time)

#### 4.4.2 Test Result

Test Frequency (MHz)	Bandwidth (MHz)	Spectrum Analyzer Display
5250 (Radar Frequency is 5290 MHz)	160	No transmission within 30 minutes

Please refer to the following plots.

5290 MHz



## 4.5 DETECTION BANDWIDTH

### 4.5.1 Test Procedure

Performed with Type 0 radar waveforms

Starting at the center frequency of the UUT operating *Channel*, increase the radar frequency in 5 MHz steps, repeating the above test sequence, until the detection rate falls below the *U-NII Detection Bandwidth* criterion specified in **Table 4**. Repeat this measurement in 1MHz steps at frequencies 5 MHz below where the detection rate begins to fall. Record the highest frequency (denote as  $F_H$ ) at which detection is greater than or equal to the *U-NII Detection Bandwidth* criterion. Recording the detection rate at frequencies above  $F_H$  is not required to demonstrate compliance.

Starting at the center frequency of the UUT operating *Channel*, decrease the radar frequency in 5 MHz steps, repeating the above test sequence, until the detection rate falls below the *U-NII Detection Bandwidth* criterion specified in **Table 4**. Repeat this measurement in 1MHz steps at frequencies 5 MHz above where the detection rate begins to fall. Record the lowest frequency (denote as  $F_L$ ) at which detection is greater than or equal to the *U-NII Detection Bandwidth* criterion. Recording the detection rate at frequencies below  $F_L$  is not required to demonstrate compliance.

The *U-NII Detection Bandwidth* is calculated as follows:

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

The *U-NII Detection Bandwidth* must meet the *U-NII Detection Bandwidth* criterion specified in **Table 4**. Otherwise, the UUT does not comply with DFS requirements. This is essential to ensure that the UUT is capable of detecting *Radar Waveforms* across the same frequency spectrum that contains the significant energy from the system. In the case that the *U-NII Detection Bandwidth* is greater than or equal to the 99 percent power bandwidth for the measured  $F_H$  and  $F_L$ , the test can be truncated and the *U-NII Detection Bandwidth* can be reported as the measured  $F_H$  and  $F_L$ .

### 4.5.2 Test Result

Frequency (MHz)	Bandwidth Systems (MHz)	$F_L$ (MHz)	$F_H$ (MHz)	Detection Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Minimum Limit	Result
5320	20	5300	5340	40	19.24	100%	Compliant
5310	40	5280	5345	65	38.16	100%	Compliant
5290	80	5250	5350	100	77.60	100%	Compliant
5290	160	5250	5350	100	157*	100%	Compliant

\*:**Detection Bandwidth** Covered all bandwidth fall into 5250-5350 MHz

Please refer to the following tables.

## Results of Detection Bandwidth:

20MHz Bandwidth, EUT Frequency = 5320MHz											
DFS Detection Trials ( 1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5300(F <sub>L</sub> )	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 %
5304	1	1	1	1	1	1	1	1	1	1	100 %
5305	1	1	1	1	1	1	1	1	1	1	100 %
5310	1	1	1	1	1	1	1	1	1	1	100 %
5315	1	1	1	1	1	1	1	1	1	1	100 %
<b>5320</b>	1	1	1	1	1	1	1	1	1	1	100 %
5325	1	1	1	1	1	1	1	1	1	1	100 %
<b>5330</b>	1	1	1	1	1	1	1	1	1	1	100 %
5335	1	1	1	1	1	1	1	1	1	1	100 %
5336	1	1	1	1	1	1	1	1	1	1	100 %
5337	1	1	1	1	1	1	1	1	1	1	100 %
5338	1	1	1	1	1	1	1	1	1	1	100 %
5339	1	1	1	1	1	1	1	1	1	1	100 %
5340(F <sub>H</sub> )	1	1	1	1	1	1	1	1	1	1	100 %
<b>Detection Bandwidth = F<sub>H</sub> - F<sub>L</sub> = 5340-5300 = 40MHz</b>											
<b>EUT 99% BW = 19.24 MHz</b>										<b>Result: Pass</b>	

40MHz Bandwidth, EUT Frequency = 5310 MHz											
DFS Detection Trials ( 1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5280(F <sub>L</sub> )	1	1	1	1	1	1	1	1	1	1	100 %
5281	1	1	1	1	1	1	1	1	1	1	100 %
5282	1	1	1	1	1	1	1	1	1	1	100 %
5283	1	1	1	1	1	1	1	1	1	1	100 %
5285	1	1	1	1	1	1	1	1	1	1	100 %
5290	1	1	1	1	1	1	1	1	1	1	100 %
5295	1	1	1	1	1	1	1	1	1	1	100 %
5300	1	1	1	1	1	1	1	1	1	1	100 %
5305	1	1	1	1	1	1	1	1	1	1	100 %
<b>5310</b>	1	1	1	1	1	1	1	1	1	1	100 %
5315	1	1	1	1	1	1	1	1	1	1	100 %
5320	1	1	1	1	1	1	1	1	1	1	100 %
5325	1	1	1	1	1	1	1	1	1	1	100 %
5330	1	1	1	1	1	1	1	1	1	1	100 %
5335	1	1	1	1	1	1	1	1	1	1	100 %
5340	1	1	1	1	1	1	1	1	1	1	100 %
5344	1	1	1	1	1	1	1	1	1	1	100 %
5345(F <sub>H</sub> )	1	1	1	1	1	1	1	1	1	1	100 %
<b>Detection Bandwidth = F<sub>H</sub> – F<sub>L</sub> = 5345-5280 = 65 MHz</b>											
<b>EUT 99% BW = 38.16MHz;</b>										<b>Result: Pass</b>	

80MHz Bandwidth, EUT Frequency = 5290 MHz											
DFS Detection Trials ( 1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5250(F <sub>L</sub> )	1	1	1	1	1	1	1	1	1	1	100 %
5255	1	1	1	1	1	1	1	1	1	1	100 %
5260	1	1	1	1	1	1	1	1	1	1	100 %
5265	1	1	1	1	1	1	1	1	1	1	100 %
5270	1	1	1	1	1	1	1	1	1	1	100 %
5275	1	1	1	1	1	1	1	1	1	1	100 %
5280	1	1	1	1	1	1	1	1	1	1	100 %
5285	1	1	1	1	1	1	1	1	1	1	100 %
5290	1	1	1	1	1	1	1	1	1	1	100 %
5295	1	1	1	1	1	1	1	1	1	1	100 %
5300	1	1	1	1	1	1	1	1	1	1	100 %
5305	1	1	1	1	1	1	1	1	1	1	100 %
5310	1	1	1	1	1	1	1	1	1	1	100 %
5315	1	1	1	1	1	1	1	1	1	1	100 %
5320	1	1	1	1	1	1	1	1	1	1	100 %
5325	1	1	1	1	1	1	1	1	1	1	100 %
5330	1	1	1	1	1	1	1	1	1	1	100 %
5335	1	1	1	1	1	1	1	1	1	1	100 %
5340	1	1	1	1	1	1	1	1	1	1	100 %
5345	1	1	1	1	1	1	1	1	1	1	100 %
5350(F <sub>H</sub> )	1	1	1	1	1	1	1	1	1	1	100 %
<b>Detection Bandwidth</b> = F <sub>H</sub> - F <sub>L</sub> = 5350 - 5250 = 100 MHz											
<b>EUT 99% BW</b> = 77.60 MHz;										<b>Result:</b> Pass	



160MHz Bandwidth, EUT Frequency = 5290 MHz											
DFS Detection Trials ( 1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5250(F <sub>L</sub> )	1	1	1	1	1	1	1	1	1	1	100 %
5255	1	1	1	1	1	1	1	1	1	1	100 %
5260	1	1	1	1	1	1	1	1	1	1	100 %
5265	1	1	1	1	1	1	1	1	1	1	100 %
5270	1	1	1	1	1	1	1	1	1	1	100 %
5275	1	1	1	1	1	1	1	1	1	1	100 %
5280	1	1	1	1	1	1	1	1	1	1	100 %
5285	1	1	1	1	1	1	1	1	1	1	100 %
5290	1	1	1	1	1	1	1	1	1	1	100 %
5295	1	1	1	1	1	1	1	1	1	1	100 %
5300	1	1	1	1	1	1	1	1	1	1	100 %
5305	1	1	1	1	1	1	1	1	1	1	100 %
5310	1	1	1	1	1	1	1	1	1	1	100 %
5315	1	1	1	1	1	1	1	1	1	1	100 %
5320	1	1	1	1	1	1	1	1	1	1	100 %
5325	1	1	1	1	1	1	1	1	1	1	100 %
5330	1	1	1	1	1	1	1	1	1	1	100 %
5335	1	1	1	1	1	1	1	1	1	1	100 %
5340	1	1	1	1	1	1	1	1	1	1	100 %
5345	1	1	1	1	1	1	1	1	1	1	100 %
5350(F <sub>H</sub> )	1	1	1	1	1	1	1	1	1	1	100 %
<b>Detection Bandwidth</b> = F <sub>H</sub> – F <sub>L</sub> = 5350-5250=100 MHz											
<b>EUT 99% BW</b> = 157 MHz; ( <b>Detection Bandwidth</b> Covered all bandwidth fall into 5250-5350 MHz)											
											<b>Result: Pass</b>

## 4.6 STATISTICAL PERFORMANCE CHECK

### 4.6.1 Procedure:

The steps below define the procedure to determine the minimum percentage of successful detection requirements found in **Tables 5-7** when a radar burst with a level equal to the *DFS Detection Threshold + 1dB* is generated on the *Operating Channel* of the U-NII device (*In- Service Monitoring*).

- a) One frequency will be chosen from the *Operating Channels* of the UUT within the 5250-5350 MHz or 5470-5725 MHz bands.
- b) In case the UUT is a U-NII device operating as a Client Device (with or without Radar Detection), a U-NII device operating as a Master Device will be used to allow the UUT (Client device) to Associate with the Master Device. In case the UUT is a Master Device, a U-NII device operating as a Client Device will be used and it is assumed that the Client will Associate with the UUT (Master). In both cases for conducted tests, the Radar Waveform generator will be connected to the Master Device. For radiated tests, the emissions of the Radar Waveform generator will be directed towards the Master Device. If the Master Device has antenna gain, the main beam of the antenna will be directed toward the radar emitter. Vertical polarization is used for testing.
- c) Stream the channel loading test file from the *Master Device* to the Client Device on the test *Channel* for the entire period of the test.
- d) At time  $T_0$  the *Radar Waveform* generator sends the individual waveform for each of the Radar Types 1- 6 in **Tables 5-7**, at levels defined in **Table 3**, on the *Operating Channel*. An additional 1 dB is added to the radar test signal to ensure it is at or above the *DFS Detection Threshold*, accounting for equipment variations/errors.
- e) Observe the transmissions of the UUT at the end of the Burst on the *Operating Channel* for duration greater than 10 seconds for Radar Type 0 to ensure detection occurs.
- f) Observe the transmissions of the UUT 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.
- g) In case the UUT is a U-NII device operating as a *Client Device* with *In-Service Monitoring*, perform steps a) to f).

**4.6.2 Result:****160MHz(Radar Signal is 5290MHz)**

<b>Radar Signal Type</b>	<b>Waveform/Trial Number</b>	<b>Detection (%)</b>	<b>Limit (%)</b>	<b>Pass/Fail</b>
Type 1A	15	100%	60%	pass
Type 1B	15	100%	60%	pass
Type 2	30	100%	60%	Pass
Type 3	30	100 %	60%	Pass
Type 4	30	100 %	60%	Pass
<b>Aggregate (Type 1 to 4)</b>	120	100%	80%	Pass
Type 5	30	100 %	80%	Pass
Type 6	30	100 %	70%	Pass

Please refer to the following statistical tables:

**160MHz(Radar Signal is 5290MHz):****Radar Type 1A Statistical Performance**

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μs)	PRI (μs)	Detection (1:yes; 0:no)
1	5290	67	1	798	1
2	5290	72	1	738	1
3	5290	76	1	698	1
4	5290	86	1	618	1
5	5290	59	1	898	1
6	5290	65	1	818	1
7	5290	61	1	878	1
8	5290	81	1	658	1
9	5290	74	1	718	1
10	5290	95	1	558	1
11	5290	89	1	598	1
12	5290	63	1	838	1
13	5290	62	1	858	1
14	5290	70	1	758	1
15	5290	83	1	638	1
Detection Percentage: 100% (>60%)					

**Radar Type 1B Statistical Performance**

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μs)	PRI (μs)	Detection (1:yes; 0:no)
1	5290	25	1	2156	1
2	5290	19	1	2853	1
3	5290	49	1	1088	1
4	5290	34	1	1553	1
5	5290	23	1	2387	1
6	5290	24	1	2273	1
7	5290	36	1	1467	1
8	5290	27	1	2018	1
9	5290	55	1	967	1
10	5290	100	1	529	1
11	5290	32	1	1669	1
12	5290	59	1	909	1
13	5290	18	1	2993	1
14	5290	52	1	1022	1
15	5290	85	1	624	1
Detection Percentage: 100% (>60%)					

**Radar Type 2 Statistical Performance**

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5290	24	2.6	171	1
2	5290	29	4.5	200	1
3	5290	28	1.8	167	1
4	5290	23	1.7	219	1
5	5290	27	2.1	164	1
6	5290	25	2	190	1
7	5290	23	1.2	185	1
8	5290	24	5	218	1
9	5290	29	2.9	220	1
10	5290	26	3	153	1
11	5290	28	4.1	203	1
12	5290	28	1.5	191	1
13	5290	28	2.9	162	1
14	5290	27	3.2	171	1
15	5290	23	4.6	204	1
16	5290	26	2.1	216	1
17	5290	23	2.4	195	1
18	5290	27	1.4	178	1
19	5290	23	3.5	160	1
20	5290	23	2.9	214	1
21	5290	27	3.4	166	1
22	5290	28	3.7	178	1
23	5290	29	3	208	1
24	5290	27	1.4	150	1
25	5290	28	3.1	160	1
26	5290	24	3.1	213	1
27	5290	23	1.1	154	1
28	5290	28	4.6	206	1
29	5290	28	2.3	179	1
30	5290	28	2.8	176	1
<b>Detection Percentage: 100% (&gt;60%)</b>					

**Radar Type 3 Statistical Performance**

<b>Trial #</b>	<b>Fc (MHz)</b>	<b>Pulse/Burst</b>	<b>Pulse Width (μs)</b>	<b>PRI (μs)</b>	<b>Detection (1:yes; 0:no)</b>
1	5290	16	8.7	207	1
2	5290	17	6.3	395	1
3	5290	18	8.7	204	1
4	5290	16	6.1	329	1
5	5290	17	6	345	1
6	5290	18	8	222	1
7	5290	16	8.5	260	1
8	5290	16	9.4	310	1
9	5290	18	8.8	407	1
10	5290	17	7.3	441	1
11	5290	17	8.4	444	1
12	5290	16	7	467	1
13	5290	17	7.2	375	1
14	5290	16	6.3	497	1
15	5290	18	8.6	328	1
16	5290	17	6.4	349	1
17	5290	17	6.3	453	1
18	5290	16	7.7	227	1
19	5290	17	10	409	1
20	5290	16	9.7	468	1
21	5290	18	6.7	412	1
22	5290	16	7.3	308	1
23	5290	16	8.9	348	1
24	5290	18	8	270	1
25	5290	18	9	458	1
26	5290	16	7.2	274	1
27	5290	18	9.3	254	1
28	5290	18	9.2	294	1
29	5290	18	7.3	384	1
30	5290	18	7.3	361	1
<b>Detection Percentage: 100% (&gt;60%)</b>					

**Radar Type 4 Statistical Performance**

<b>Trial #</b>	<b>Fc (MHz)</b>	<b>Pulse/Burst</b>	<b>Pulse Width (μS)</b>	<b>PRI (μs)</b>	<b>Detection (1:yes; 0:no)</b>
1	5290	14	18.8	414	1
2	5290	15	17.5	445	1
3	5290	13	19.2	477	1
4	5290	16	19.4	277	1
5	5290	14	11.4	298	1
6	5290	16	15.9	208	1
7	5290	14	19.7	315	1
8	5290	16	17.9	436	1
9	5290	12	19	437	1
10	5290	16	16.8	477	1
11	5290	15	12.2	435	1
12	5290	16	18.2	277	1
13	5290	14	17.6	253	1
14	5290	16	19.7	457	1
15	5290	15	17.3	280	1
16	5290	13	13.4	309	1
17	5290	15	14.5	210	1
18	5290	13	17.3	315	1
19	5290	12	15.3	430	1
20	5290	16	11.4	212	1
21	5290	16	11.8	211	1
22	5290	15	11.5	335	1
23	5290	14	12.9	461	1
24	5290	16	18.3	434	1
25	5290	16	20	393	1
26	5290	13	15.5	370	1
27	5290	14	17.8	391	1
28	5290	16	18.8	462	1
29	5290	12	14.7	271	1
30	5290	14	16.8	218	1
<b>Detection Percentage: 100% (&gt;60%)</b>					

**Radar Type 5 Case 1 Statistical Performance**

Statistics 1 (ChirpCenter Frequency: 5290.0MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	11	75	1999	1534	0.722881	1
1	2	11	64.1	1327		2.20211	
2	1	11	90.5			3.866902	
3	1	11	89.4			5.074978	
4	3	11	75.3	1103	1275	5.858143	
5	2	11	75	1974		7.047035	
6	3	11	71.4	1430	1770	8.194346	
7	2	11	68.2	1387		9.75289	
8	2	11	96.6	1679		11.74292	

Statistics 2 (ChirpCenter Frequency: 5290.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	6	84.2	1673	1063	0.151521	1
1	1	6	54.4			1.18819	
2	2	6	54.4	1484		1.862866	
3	3	6	84.7	1391	1645	2.780674	
4	2	6	77.7	1461		3.4807	
5	2	6	81.2	1144		4.100696	
6	2	6	69.9	1216		4.762168	
7	1	6	97			5.273347	
8	2	6	92.2	1716		5.78664	
9	2	6	95	1834		6.903962	
10	3	6	68.7	1262	1396	7.283343	
11	2	6	67.9	1547		8.092467	
12	3	6	72.9	1544	1921	8.957497	
13	1	6	93.6			9.177558	
14	2	6	56	1083		10.10753	
15	2	6	67.9	1236		10.73657	
16	2	6	70.5	1954		11.49973	



## Statistics 3 (ChirpCenter Frequency: 5290.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	7	60.3	1201		0.611423	1
1	3	7	99.6	1341	1144	1.916585	
2	2	7	53.7	1739		3.620639	
3	3	7	52.8	1161	1268	5.196396	
4	2	7	90.5	1310		6.379128	
5	1	7	56.4			7.841177	
6	2	7	66.9	1189		9.107014	
7	2	7	76.8	1515		10.41256	
8	2	7	94.7	1699		11.20327	

## Statistics 4 (ChirpCenter Frequency: 5290.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	16	54.8	1560		1.226036	1
1	2	16	86.8	1484		2.350279	
2	2	16	68.7	1492		3.653623	
3	2	16	67.2	1671		5.640658	
4	3	16	69.7	1230	1534	6.90102	
5	1	16	94.1			7.830856	
6	2	16	95.2	1519		9.279602	
7	2	16	51.3	1168		11.99089	

## Statistics 5(ChirpCenter Frequency: 5290.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	6	53.7	1131		0.579267	1
1	3	6	75.9	1769	1010	1.949498	
2	2	6	100	1656		3.037154	
3	1	6	86.4			3.841762	
4	2	6	50.9	1173		4.677829	
5	2	6	75	1724		6.417224	
6	3	6	66.5	1656	1748	7.214804	
7	1	6	94.6			8.498897	
8	1	6	93.7			9.607341	
9	2	6	58.9	1218		10.05461	
10	3	6	99.8	1341	1091	11.57577	

## Statistics 6 (ChirpCenter Frequency: 5290.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	8	85.7	1595		0.410468	1
1	1	8	60			1.01113	
2	1	8	96.2			2.180462	
3	3	8	82.4	1531	1763	2.266107	
4	1	8	75.5			3.672604	
5	2	8	84.7	1678		4.218686	
6	2	8	59.2	1163		5.045222	
7	2	8	93.5	1974		5.958498	
8	2	8	80.6	1039		6.299246	
9	2	8	73.7	1820		6.853037	
10	1	8	95.9			7.815481	
11	2	8	71.5	1208		8.767856	
12	2	8	63.1	1510		9.15315	
13	2	8	55.4	1238		9.871106	
14	3	8	50.5	1529	1271	10.82851	
15	2	8	55.6	1585		11.7005	

Statistics 7(ChirpCenter Frequency: 5290.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	13	63.9	1516		0.0279	1
1	2	13	94.5	1139		1.047066	
2	3	13	73.6	1968	1060	1.526905	
3	2	13	53.2	1716		2.43648	
4	2	13	63.9	1779		3.084748	
5	2	13	74.1	1887		3.608068	
6	2	13	68.2	1153		3.858271	
7	2	13	57.4	1606		4.544204	
8	3	13	58.1	1161	1923	5.272404	
9	1	13	71.4			5.854845	
10	3	13	98.9	1782	1207	6.831401	
11	1	13	78.7			7.317718	
12	3	13	60.8	1221	1146	7.600227	
13	2	13	58.1	1478		8.307635	
14	3	13	73.9	1807	1741	9.428748	
15	2	13	64.4	1344		9.859014	
16	2	13	56.2	1818		10.66595	
17	2	13	97.3	1070		11.15986	
18	2	13	81.3	1991		11.57767	

Statistics 8 (ChirpCenter Frequency: 5290.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	16	94.8	1256	1454	0.179082	1
1	1	16	95.9			0.719906	
2	1	16	55.1			1.229605	
3	3	16	69.7	1479	1218	1.899987	
4	2	16	76.8	1428		2.720799	
5	2	16	56.4	1990		3.404237	
6	3	16	92.9	1313	1273	3.806511	
7	2	16	57.5	1860		4.572207	
8	2	16	63.8	1190		4.911168	
9	2	16	93.4	1936		5.989174	
10	3	16	66.9	1693	1912	6.033137	
11	2	16	73.3	1666		6.834201	
12	3	16	84.5	1975	1619	7.582912	
13	1	16	60.3			8.241188	
14	2	16	86.5	1871		8.492372	
15	1	16	70.4			9.396814	
16	1	16	60.8			9.724217	
17	2	16	83.1	1250		10.24633	
18	3	16	61	1913	1201	11.0453	
19	2	16	65.6	1375		11.98889	

## Statistics 9 (ChirpCenter Frequency: 5290.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	9	90	1408		0.493966	1
1	3	9	53.4	1800	1176	1.325977	
2	1	9	67.8			2.938895	
3	2	9	94.3	1179		3.086214	
4	3	9	91.6	1630	1374	4.033682	
5	2	9	74.7	1215		5.263284	
6	3	9	64.6	1042	1322	6.141718	
7	1	9	95.4			7.604261	
8	1	9	55			8.413171	
9	2	9	75	1520		9.085851	
10	2	9	50.3	1957		10.89528	
11	1	9	72.1			11.83159	

## Statistics 10 (ChirpCenter Frequency: 5290.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	14	87.5	1487		0.534125	1
1	2	14	79.3	1872		1.208763	
2	2	14	74	1468		1.841111	
3	2	14	51	1597		2.429713	
4	2	14	73.2	1288		2.857742	
5	1	14	86.8			3.843536	
6	2	14	60.4	1805		4.389569	
7	2	14	87.4	1671		4.949221	
8	1	14	61.9			5.903062	
9	2	14	51.4	1072		6.856047	
10	2	14	84.4	1385		7.100426	
11	2	14	97.2	1732		8.077763	
12	2	14	68.5	1851		8.748967	
13	3	14	59.1	1580	1295	9.599412	
14	1	14	70.3			10.05446	
15	2	14	94.2	1085		10.78921	
16	2	14	88.9	1333		11.98145	

**Radar Type 5 Case 2 Statistical Performance**

Statistics 1 (ChirpCenter Frequency: 5254.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	9	59.1	1097	1880	0.463856	1
1	3	9	90.5	1901	1273	1.11523	
2	2	9	88.3	1215		3.211847	
3	2	9	76.7	1852		4.044995	
4	3	9	70	1988	1467	5.320634	
5	1	9	70.3			5.512922	
6	2	9	88.7	1930		7.06651	
7	1	9	82.5			7.643803	
8	3	9	55.8	1950	1181	9.633842	
9	2	9	59.2	1800		10.23042	
10	3	9	76.1	1261	1108	11.98177	

Statistics 2 (ChirpCenter Frequency: 5257.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	17	83.3			0.290288	1
1	1	17	88.9			1.526295	
2	2	17	53.6	1161		2.062088	
3	1	17	55.5			3.435259	
4	1	17	50.1			4.288259	
5	2	17	76.6	1406		4.705055	
6	3	17	64.5	1011	1110	5.640269	
7	2	17	94.5	1101		7.147661	
8	1	17	91.4			7.460858	
9	1	17	94			8.670008	
10	2	17	71.3	1580		9.327692	
11	2	17	73.4	1004		10.21471	
12	3	17	75.1	1295	1793	11.9894	

Statistics 3 (ChirpCenter Frequency: 5256.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	16	62.6	1549		0.830325	1
1	2	16	59.5	1612		2.115202	
2	2	16	58.3	1975		3.565291	
3	2	16	77.5	1819		4.602037	
4	2	16	65.5	1558		5.299817	
5	2	16	54	1141		6.07692	
6	1	16	99.5			7.747963	
7	2	16	96.1	1749		9.167627	
8	1	16	92.6			10.0576	
9	3	16	56.8	1871	1669	11.66805	

Statistics 4 (ChirpCenter Frequency: 5256.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	16	89.1	1916		0.194391	1
1	2	16	64.1	1463		0.953226	
2	2	16	82.8	1608		1.379632	
3	2	16	98	1217		2.063577	
4	3	16	83.1	1129	1147	2.797018	
5	1	16	97.3			3.375052	
6	3	16	52.2	1141	1743	4.544925	
7	2	16	56.8	1877		5.024921	
8	2	16	68.4	1299		5.51586	
9	1	16	99.2			6.283782	
10	2	16	68.8	1043		6.969442	
11	2	16	82.6	1864		7.981093	
12	2	16	65.3	1691		8.007266	
13	2	16	79.2	1640		9.232433	
14	3	16	68	1395	1195	9.849481	
15	3	16	58.8	1657	1332	10.34411	
16	2	16	83.5	1596		10.9388	
17	3	16	77.6	1151	1789	11.38952	

Statistics 5 (ChirpCenter Frequency: 5256.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	15	60.4			0.510999	1
1	2	15	93.6	1402		2.22065	
2	3	15	99.5	1421	1205	3.564141	
3	1	15	60.5			5.285902	
4	3	15	58.8	1106	1304	6.040166	
5	3	15	92.9	1810	1453	8.893932	
6	3	15	79.4	1063	1988	10.23955	
7	2	15	69.9	1483		11.48312	

Statistics 6 (ChirpCenter Frequency: 5256.0MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	16	60.2			0.457262	1
1	1	16	64.5			1.147703	
2	1	16	56.4			2.245685	
3	2	16	87.2	1479		2.608068	
4	2	16	95.3	1417		4.17754	
5	1	16	94.4			4.965581	
6	2	16	64.5	1763		5.293976	
7	2	16	82.1	1743		6.278311	
8	2	16	60.5	1644		7.267337	
9	2	16	66.2	1863		8.145367	
10	2	16	68.5	1751		9.064315	
11	2	16	69.6	1357		9.853315	
12	2	16	62.7	1838		10.74287	
13	2	16	76.4	1277		11.9114	

Statistics 7 (ChirpCenter Frequency: 5257.0MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(uS)	Pulse 2-3 spacing(uS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	17	60.7	1511	1325	0.460804	1
1	1	17	80			2.39603	
2	3	17	52	1124	1941	3.007332	
3	2	17	81.7	1388		4.146038	
4	2	17	68.2	1029		4.888172	
5	2	17	83.6	1126		6.493995	
6	1	17	88.5			8.013565	
7	2	17	88.4	1337		9.378192	
8	2	17	66.6	1488		10.58703	
9	2	17	70.3	1295		10.84996	

Statistics 8 (ChirpCenter Frequency: 5258.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	19	77.7			0.827467	1
1	3	19	76.6	1463	1657	1.023082	
2	3	19	98	1314	1362	2.402219	
3	2	19	52.9	1307		3.927644	
4	1	19	54.4			4.77257	
5	2	19	72	1814		5.70729	
6	2	19	86.7	1240		6.245909	
7	2	19	99.8	1048		7.855383	
8	2	19	82.7	1176		8.352159	
9	1	19	91.2			9.55587	
10	1	19	60.8			10.7088	
11	1	19	79			11.74607	

## Statistics 9 (ChirpCenter Frequency: 5252.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	5	78.4	1353	1628	0.820007	1
1	2	5	55.8	1679		2.023167	
2	2	5	82.6	1365		2.569871	
3	3	5	78.5	1364	1470	4.618206	
4	2	5	75	1067		5.398445	
5	2	5	97.6	1856		7.006915	
6	2	5	75.7	1918		7.72453	
7	3	5	68.1	1006	1192	9.075571	
8	1	5	72.3			10.07318	
9	2	5	86	1863		10.80951	

## Statistics 10 (ChirpCenter Frequency: 5256.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	15	64.7			1.097742	1
1	3	15	94.4	1468	1499	2.331854	
2	2	15	67.8	1569		3.280361	
3	3	15	79.1	1538	1588	5.445565	
4	1	15	54.3			6.582315	
5	2	15	95.3	1961		8.860725	
6	1	15	96.1			9.223343	
7	1	15	54.8			11.43385	



**Radar Type 5 Case 3 Statistical Performance**

Statistics 1 (ChirpCenter Frequency: 5328.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	5	50.6	1323	1993	0.898399	1
1	2	5	90.2	1578		2.245122	
2	3	5	72.9	1798	1581	2.954015	
3	3	5	90.6	1325	1499	4.618829	
4	3	5	65.5	1084	1279	5.441329	
5	1	5	97			6.327261	
6	1	5	96.3			7.765138	
7	2	5	72.5	1653		8.872475	
8	2	5	73.8	1622		9.732967	
9	2	5	87.6	1087		11.12927	

Statistics 2 (ChirpCenter Frequency: 5323.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	18	51.5	1077	1048	0.566508	1
1	2	18	81.6	1696		0.932289	
2	3	18	62.8	1142	1105	1.98472	
3	2	18	59.3	1445		2.537126	
4	2	18	62.9	1979		3.074425	
5	3	18	52.3	1462	1865	3.940629	
6	2	18	83.9	1425		4.015778	
7	2	18	84.7	1394		4.70686	
8	2	18	64.6	1757		5.824741	
9	1	18	64.2			6.231419	
10	3	18	81.1	1482	1610	7.126278	
11	2	18	54.8	1734		7.585846	
12	2	18	99.4	1032		8.467116	
13	3	18	81.3	1221	1585	8.882714	
14	1	18	84.2			9.424448	
15	1	18	88.5			10.16491	
16	2	18	72.1	1715		11.28735	
17	2	18	58.7	1060		11.67626	

Statistics 3 (ChirpCenter Frequency: 5324.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	15	62.4			0.813927	1
1	2	15	71.9	1695		1.455619	
2	1	15	63			2.231398	
3	1	15	70.1			3.286473	
4	1	15	60.6			3.68285	
5	2	15	62.5	1959		4.705483	
6	2	15	86.4	1734		5.765781	
7	2	15	94.2	1851		6.448792	
8	3	15	52	1133	1917	6.861612	
9	1	15	64.9			8.010323	
10	3	15	69.9	1317	1663	8.924583	
11	3	15	56.3	1773	1992	9.607331	
12	2	15	73.5	1742		11.06006	
13	3	15	63.8	1312	1155	11.51031	

Statistics 4 (ChirpCenter Frequency: 5328.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	6	58.6	1785	1377	0.422484	1
1	2	6	91.5	1847		2.185193	
2	3	6	79	1902	1893	3.865164	
3	1	6	96.5			4.510782	
4	3	6	81.9	1878	1320	6.591159	
5	2	6	51.8	1335		7.664479	
6	3	6	89.5	1030	1521	9.25203	
7	2	6	92	1304		9.787155	
8	1	6	94.6			11.84406	

Statistics 5 (ChirpCenter Frequency: 5325.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	13	62.5			0.166066	1
1	1	13	85.6			1.708129	
2	2	13	52.3	1966		2.490137	
3	3	13	77.6	1193	1711	3.536521	
4	2	13	84.2	1414		4.066133	
5	2	13	95.9	1185		4.638848	
6	3	13	86.5	1859	1623	5.781709	
7	2	13	60	1649		6.622834	
8	3	13	100	1353	1817	7.648786	
9	1	13	53.4			8.990102	
10	2	13	90.2	1736		9.33168	
11	1	13	93.9			10.70858	
12	1	13	61.5			11.55487	

Statistics 6 (ChirpCenter Frequency: 5325.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	13	57.8	1139		0.680038	1
1	3	13	56.1	1420	1324	1.603545	
2	2	13	79.3	1205		2.975527	
3	2	13	51.7	1790		4.872586	
4	2	13	97.7	1900		5.341645	
5	1	13	81.1			7.93723	
6	2	13	67.1	1583		9.262115	
7	3	13	94.7	1774	1807	9.876023	
8	3	13	97.4	1570	1747	11.65066	

Statistics 7 (ChirpCenter Frequency: 5324.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	15	98	1369	1344	0.245112	1
1	2	15	58.4	1787		1.119851	
2	3	15	60	1349	1401	1.871809	
3	2	15	89	1492		2.461653	
4	2	15	73.5	1276		2.897434	
5	2	15	87.9	1479		3.474427	
6	2	15	93.6	1341		4.267314	
7	2	15	90.6	1229		4.675385	
8	3	15	89.5	1239	1252	5.534189	
9	2	15	74.9	1664		6.54828	
10	2	15	71.5	1662		7.027679	
11	1	15	67.6			7.710246	
12	3	15	64.1	1148	1197	8.096826	
13	2	15	98.5	1463		8.75684	
14	3	15	55.7	1969	1467	9.983636	
15	2	15	68.5	1815		10.08616	
16	1	15	55.3			10.74881	
17	1	15	50.5			11.48952	

Statistics 8 (ChirpCenter Frequency: 5326.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	9	89			0.745388	1
1	1	9	88.4			2.090478	
2	2	9	82.3	1941		2.99319	
3	2	9	78.2	1951		4.253457	
4	1	9	79.2			5.231973	
5	1	9	60.4			6.053841	
6	2	9	50.3	1852		7.614465	
7	2	9	56.4	1909		8.423816	
8	3	9	61.5	1194	1163	10.19774	
9	2	9	65.4	1518		10.99778	

## Statistics 9 (ChirpCenter Frequency: 5325.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	13	74.2			0.084716	1
1	1	13	70.8			2.258788	
2	2	13	99.7	1480		2.721102	
3	2	13	53.1	1057		4.349953	
4	1	13	56.7			5.781778	
5	2	13	77.6	1020		6.110566	
6	3	13	95.9	1498	1655	7.305166	
7	3	13	83.7	1332	1956	8.527294	
8	2	13	55.9	1010		10.57302	
9	3	13	73.1	1653	1400	11.46897	

## Statistics 10 (ChirpCenter Frequency: 5322.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	20	77.6	1962	1736	0.623463	1
1	2	20	89.6	1919		1.231093	
2	3	20	56.8	1305	1209	2.11953	
3	2	20	82.8	1653		3.030286	
4	2	20	66.1	1094		4.915869	
5	2	20	58.2	1433		5.098453	
6	2	20	83.2	1302		6.691582	
7	3	20	87	1879	1482	7.400478	
8	1	20	60.7			8.290296	
9	2	20	50.4	1962		9.804647	
10	1	20	100			10.79701	
11	1	20	83.4			11.29268	

**Radar Type 6 Statistical Performance**

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)	Hopping Sequence (MHz)
1	5290	9	1	333	1	5593.0, 5602.0, 5697.0, 5271.0, 5430.0, 5679.0, 5302.0, 5620.0, 5682.0, 5408.0, 5316.0, 5467.0, 5564.0, 5706.0, 5571.0, 5272.0, 5722.0, 5477.0, 5695.0, 5427.0, 5386.0, 5444.0, 5424.0, 5359.0, 5577.0, 5663.0, 5470.0, 5425.0, 5545.0, 5614.0, 5384.0, 5327.0, 5471.0, 5558.0, 5441.0, 5372.0, 5496.0, 5325.0, 5394.0, 5592.0, 5677.0, 5379.0, 5534.0, 5625.0, 5376.0, 5353.0, 5432.0, 5698.0, 5315.0, 5275.0, 5264.0, 5401.0, 5262.0, 5500.0, 5696.0, 5574.0, 5298.0, 5628.0, 5291.0, 5547.0, 5709.0, 5365.0, 5260.0, 5541.0, 5323.0, 5300.0, 5678.0, 5720.0, 5410.0, 5600.0, 5250.0, 5518.0, 5532.0, 5597.0, 5282.0, 5565.0, 5328.0, 5378.0, 5543.0, 5511.0, 5584.0, 5680.0, 5462.0, 5687.0, 5259.0, 5368.0, 5479.0, 5269.0, 5624.0, 5664.0, 5666.0, 5421.0, 5330.0, 5292.0, 5440.0, 5581.0, 5504.0, 5374.0, 5263.0, 5289.0 (number of hits: 28 )
2	5290	9	1	333	1	5288.0, 5406.0, 5590.0, 5549.0, 5434.0, 5374.0, 5411.0, 5380.0, 5366.0, 5543.0, 5675.0, 5310.0, 5459.0, 5631.0, 5666.0, 5360.0, 5429.0, 5547.0, 5268.0, 5642.0, 5371.0, 5698.0, 5306.0, 5623.0, 5422.0, 5585.0, 5490.0, 5394.0, 5498.0, 5687.0, 5468.0, 5682.0, 5555.0, 5559.0, 5628.0, 5578.0, 5266.0, 5711.0, 5680.0, 5683.0, 5685.0, 5609.0, 5372.0, 5597.0, 5629.0, 5710.0, 5363.0, 5672.0, 5678.0, 5489.0, 5534.0, 5636.0, 5404.0, 5615.0, 5354.0, 5621.0, 5464.0, 5530.0, 5709.0, 5673.0, 5583.0, 5686.0, 5376.0, 5328.0, 5309.0, 5654.0, 5632.0, 5263.0, 5418.0, 5507.0, 5518.0, 5648.0, 5481.0, 5515.0, 5400.0, 5545.0, 5304.0, 5450.0, 5525.0, 5524.0, 5250.0, 5409.0, 5387.0, 5491.0, 5397.0, 5606.0, 5389.0, 5613.0, 5567.0, 5521.0, 5322.0, 5706.0, 5645.0, 5535.0, 5453.0, 5657.0, 5702.0, 5484.0, 5255.0, 5399.0 (number of hits: 16 )
3	5290	9	1	333	1	5420.0, 5490.0, 5527.0, 5589.0, 5399.0, 5659.0, 5700.0, 5448.0, 5494.0, 5265.0, 5554.0, 5618.0, 5342.0, 5316.0, 5624.0, 5445.0, 5398.0, 5393.0, 5651.0, 5284.0, 5479.0, 5462.0, 5653.0, 5545.0, 5504.0, 5685.0, 5274.0, 5486.0, 5693.0, 5384.0, 5262.0, 5614.0, 5266.0, 5567.0, 5547.0, 5383.0, 5634.0, 5379.0, 5549.0, 5510.0, 5387.0, 5511.0, 5519.0, 5714.0, 5285.0, 5429.0, 5516.0, 5432.0, 5505.0, 5649.0, 5564.0, 5543.0, 5324.0, 5441.0, 5381.0, 5366.0, 5526.0, 5550.0, 5343.0, 5615.0,

						5664.0, 5650.0, 5668.0, 5497.0, 5390.0, 5389.0, 5611.0, 5495.0, 5369.0, 5698.0, 5318.0, 5308.0, 5397.0, 5696.0, 5677.0, 5444.0, 5579.0, 5482.0, 5711.0, 5320.0, 5463.0, 5443.0, 5427.0, 5325.0, 5345.0, 5676.0, 5413.0, 5520.0, 5572.0, 5297.0, 5599.0, 5660.0, 5351.0, 5277.0, 5684.0, 5478.0, 5576.0, 5414.0, 5271.0, 5630.0 (number of hits: 21 )
4	5290	9	1	333	1	5468.0, 5607.0, 5536.0, 5490.0, 5594.0, 5433.0, 5719.0, 5608.0, 5651.0, 5572.0, 5510.0, 5254.0, 5639.0, 5427.0, 5273.0, 5402.0, 5369.0, 5705.0, 5255.0, 5371.0, 5350.0, 5345.0, 5474.0, 5341.0, 5514.0, 5605.0, 5339.0, 5286.0, 5566.0, 5282.0, 5364.0, 5278.0, 5563.0, 5665.0, 5686.0, 5673.0, 5417.0, 5506.0, 5475.0, 5329.0, 5337.0, 5318.0, 5586.0, 5488.0, 5599.0, 5527.0, 5656.0, 5685.0, 5507.0, 5492.0, 5265.0, 5553.0, 5263.0, 5638.0, 5312.0, 5310.0, 5353.0, 5447.0, 5303.0, 5551.0, 5702.0, 5637.0, 5395.0, 5546.0, 5348.0, 5305.0, 5436.0, 5327.0, 5670.0, 5252.0, 5400.0, 5626.0, 5512.0, 5493.0, 5711.0, 5564.0, 5320.0, 5438.0, 5277.0, 5647.0, 5363.0, 5524.0, 5627.0, 5403.0, 5314.0, 5299.0, 5301.0, 5623.0, 5679.0, 5304.0, 5377.0, 5624.0, 5577.0, 5410.0, 5573.0, 5593.0, 5485.0, 5264.0, 5397.0, 5655.0 (number of hits: 33 )
5	5290	9	1	333	1	5351.0, 5507.0, 5493.0, 5377.0, 5705.0, 5633.0, 5684.0, 5474.0, 5334.0, 5616.0, 5540.0, 5479.0, 5679.0, 5310.0, 5603.0, 5258.0, 5251.0, 5471.0, 5255.0, 5465.0, 5607.0, 5701.0, 5662.0, 5619.0, 5284.0, 5504.0, 5630.0, 5602.0, 5497.0, 5271.0, 5282.0, 5575.0, 5486.0, 5524.0, 5512.0, 5419.0, 5369.0, 5570.0, 5328.0, 5542.0, 5286.0, 5574.0, 5288.0, 5660.0, 5586.0, 5672.0, 5395.0, 5450.0, 5335.0, 5595.0, 5374.0, 5264.0, 5344.0, 5386.0, 5343.0, 5519.0, 5362.0, 5702.0, 5533.0, 5700.0, 5472.0, 5257.0, 5588.0, 5698.0, 5409.0, 5622.0, 5646.0, 5394.0, 5452.0, 5618.0, 5521.0, 5687.0, 5631.0, 5589.0, 5475.0, 5685.0, 5601.0, 5337.0, 5470.0, 5659.0, 5311.0, 5627.0, 5667.0, 5538.0, 5713.0, 5490.0, 5333.0, 5678.0, 5383.0, 5543.0, 5634.0, 5365.0, 5492.0, 5445.0, 5529.0, 5514.0, 5581.0, 5429.0, 5404.0, 5591.0 (number of hits: 23 )
6	5290	9	1	333	1	5488.0, 5368.0, 5565.0, 5634.0, 5724.0, 5426.0, 5596.0, 5310.0, 5646.0, 5279.0, 5365.0, 5645.0, 5324.0, 5692.0, 5261.0, 5392.0, 5409.0, 5316.0, 5474.0, 5469.0, 5423.0, 5629.0, 5435.0, 5550.0, 5418.0, 5561.0, 5470.0, 5662.0, 5683.0, 5547.0, 5554.0, 5446.0, 5378.0, 5521.0, 5321.0, 5647.0, 5533.0, 5465.0, 5314.0, 5710.0,

						5268.0, 5531.0, 5562.0, 5401.0, 5686.0, 5349.0, 5552.0, 5673.0, 5372.0, 5319.0, 5572.0, 5285.0, 5291.0, 5716.0, 5570.0, 5687.0, 5665.0, 5688.0, 5395.0, 5412.0, 5603.0, 5534.0, 5542.0, 5643.0, 5447.0, 5630.0, 5348.0, 5704.0, 5543.0, 5598.0, 5283.0, 5681.0, 5437.0, 5297.0, 5551.0, 5439.0, 5509.0, 5468.0, 5352.0, 5584.0, 5293.0, 5632.0, 5307.0, 5377.0, 5333.0, 5591.0, 5388.0, 5528.0, 5436.0, 5424.0, 5669.0, 5560.0, 5579.0, 5327.0, 5486.0, 5599.0, 5587.0, 5479.0, 5473.0, 5655.0 (number of hits: 22 )
7	5290	9	1	333	1	5543.0, 5421.0, 5480.0, 5412.0, 5673.0, 5304.0, 5707.0, 5625.0, 5364.0, 5689.0, 5334.0, 5643.0, 5723.0, 5623.0, 5307.0, 5483.0, 5717.0, 5620.0, 5593.0, 5458.0, 5505.0, 5321.0, 5367.0, 5491.0, 5627.0, 5353.0, 5433.0, 5358.0, 5391.0, 5499.0, 5521.0, 5461.0, 5413.0, 5400.0, 5290.0, 5320.0, 5702.0, 5360.0, 5468.0, 5584.0, 5706.0, 5443.0, 5564.0, 5445.0, 5269.0, 5658.0, 5709.0, 5381.0, 5509.0, 5714.0, 5437.0, 5496.0, 5650.0, 5349.0, 5576.0, 5653.0, 5612.0, 5565.0, 5282.0, 5457.0, 5479.0, 5333.0, 5376.0, 5698.0, 5591.0, 5583.0, 5273.0, 5263.0, 5285.0, 5568.0, 5621.0, 5604.0, 5352.0, 5473.0, 5375.0, 5392.0, 5685.0, 5657.0, 5310.0, 5589.0, 5639.0, 5672.0, 5634.0, 5719.0, 5596.0, 5697.0, 5601.0, 5535.0, 5416.0, 5270.0, 5409.0, 5493.0, 5495.0, 5462.0, 5262.0, 5281.0, 5372.0, 5542.0, 5255.0, 5265.0 (number of hits: 25 )
8	5290	9	1	333	1	5676.0, 5585.0, 5314.0, 5446.0, 5645.0, 5620.0, 5366.0, 5523.0, 5479.0, 5525.0, 5672.0, 5255.0, 5318.0, 5682.0, 5648.0, 5621.0, 5381.0, 5630.0, 5345.0, 5650.0, 5700.0, 5407.0, 5606.0, 5264.0, 5279.0, 5563.0, 5372.0, 5480.0, 5526.0, 5447.0, 5704.0, 5408.0, 5472.0, 5504.0, 5608.0, 5720.0, 5424.0, 5570.0, 5502.0, 5612.0, 5639.0, 5487.0, 5573.0, 5679.0, 5441.0, 5711.0, 5549.0, 5254.0, 5307.0, 5339.0, 5566.0, 5420.0, 5530.0, 5313.0, 5278.0, 5556.0, 5584.0, 5515.0, 5450.0, 5589.0, 5632.0, 5572.0, 5265.0, 5270.0, 5309.0, 5541.0, 5642.0, 5668.0, 5457.0, 5477.0, 5587.0, 5374.0, 5501.0, 5510.0, 5649.0, 5490.0, 5274.0, 5299.0, 5675.0, 5387.0, 5464.0, 5521.0, 5418.0, 5291.0, 5485.0, 5597.0, 5465.0, 5693.0, 5297.0, 5533.0, 5665.0, 5364.0, 5567.0, 5474.0, 5481.0, 5367.0, 5528.0, 5470.0, 5406.0, 5369.0 (number of hits: 22 )
9	5290	9	1	333	1	5321.0, 5616.0, 5473.0, 5295.0, 5263.0, 5337.0, 5512.0, 5260.0, 5679.0, 5417.0, 5624.0, 5410.0, 5255.0, 5253.0, 5629.0, 5600.0, 5623.0, 5599.0, 5531.0, 5479.0,

						5525.0, 5443.0, 5365.0, 5346.0, 5455.0, 5491.0, 5466.0, 5268.0, 5609.0, 5533.0, 5449.0, 5379.0, 5465.0, 5507.0, 5532.0, 5498.0, 5413.0, 5602.0, 5298.0, 5522.0, 5632.0, 5523.0, 5454.0, 5555.0, 5433.0, 5660.0, 5447.0, 5327.0, 5340.0, 5518.0, 5400.0, 5284.0, 5561.0, 5425.0, 5690.0, 5504.0, 5369.0, 5619.0, 5503.0, 5254.0, 5289.0, 5412.0, 5715.0, 5339.0, 5582.0, 5317.0, 5685.0, 5275.0, 5634.0, 5487.0, 5681.0, 5266.0, 5696.0, 5411.0, 5301.0, 5282.0, 5402.0, 5704.0, 5699.0, 5669.0, 5371.0, 5374.0, 5495.0, 5530.0, 5639.0, 5596.0, 5537.0, 5710.0, 5606.0, 5418.0, 5283.0, 5529.0, 5323.0, 5703.0, 5432.0, 5477.0, 5471.0, 5368.0, 5517.0, 5645.0 (number of hits: 26 )
10	5290	9	1	333	1	5286.0, 5266.0, 5369.0, 5599.0, 5444.0, 5485.0, 5639.0, 5608.0, 5264.0, 5698.0, 5659.0, 5251.0, 5368.0, 5303.0, 5704.0, 5461.0, 5428.0, 5335.0, 5480.0, 5299.0, 5355.0, 5631.0, 5513.0, 5337.0, 5328.0, 5440.0, 5506.0, 5720.0, 5686.0, 5583.0, 5349.0, 5312.0, 5692.0, 5709.0, 5689.0, 5528.0, 5464.0, 5667.0, 5501.0, 5557.0, 5504.0, 5684.0, 5662.0, 5548.0, 5503.0, 5301.0, 5581.0, 5708.0, 5411.0, 5713.0, 5701.0, 5654.0, 5327.0, 5405.0, 5279.0, 5291.0, 5448.0, 5678.0, 5438.0, 5546.0, 5270.0, 5268.0, 5645.0, 5253.0, 5311.0, 5526.0, 5613.0, 5577.0, 5387.0, 5723.0, 5626.0, 5560.0, 5390.0, 5331.0, 5544.0, 5487.0, 5420.0, 5683.0, 5594.0, 5637.0, 5273.0, 5278.0, 5352.0, 5459.0, 5628.0, 5710.0, 5649.0, 5494.0, 5366.0, 5430.0, 5714.0, 5615.0, 5511.0, 5547.0, 5561.0, 5435.0, 5332.0, 5423.0, 5329.0, 5274.0 (number of hits: 30 )
11	5290	9	1	333	1	5586.0, 5349.0, 5338.0, 5553.0, 5467.0, 5354.0, 5547.0, 5692.0, 5639.0, 5314.0, 5700.0, 5387.0, 5450.0, 5724.0, 5303.0, 5548.0, 5362.0, 5661.0, 5587.0, 5368.0, 5336.0, 5317.0, 5506.0, 5400.0, 5683.0, 5327.0, 5638.0, 5367.0, 5610.0, 5334.0, 5551.0, 5722.0, 5690.0, 5691.0, 5418.0, 5519.0, 5461.0, 5538.0, 5432.0, 5301.0, 5412.0, 5624.0, 5398.0, 5260.0, 5422.0, 5428.0, 5656.0, 5426.0, 5466.0, 5484.0, 5592.0, 5254.0, 5345.0, 5619.0, 5446.0, 5530.0, 5670.0, 5274.0, 5655.0, 5653.0, 5272.0, 5501.0, 5429.0, 5723.0, 5612.0, 5417.0, 5480.0, 5416.0, 5290.0, 5682.0, 5419.0, 5472.0, 5649.0, 5647.0, 5265.0, 5297.0, 5486.0, 5659.0, 5595.0, 5598.0, 5361.0, 5641.0, 5266.0, 5372.0, 5535.0, 5590.0, 5614.0, 5542.0, 5490.0, 5608.0, 5634.0, 5275.0, 5668.0, 5559.0, 5319.0, 5673.0, 5448.0, 5351.0, 5621.0, 5561.0 (number of hits: 26 )



12	5290	9	1	333	1	5472.0, 5687.0, 5572.0, 5283.0, 5291.0, 5465.0, 5357.0, 5296.0, 5290.0, 5679.0, 5452.0, 5267.0, 5708.0, 5331.0, 5488.0, 5664.0, 5329.0, 5632.0, 5430.0, 5256.0, 5587.0, 5650.0, 5438.0, 5628.0, 5450.0, 5272.0, 5395.0, 5429.0, 5540.0, 5254.0, 5340.0, 5368.0, 5636.0, 5702.0, 5642.0, 5339.0, 5258.0, 5400.0, 5482.0, 5347.0, 5512.0, 5693.0, 5454.0, 5437.0, 5401.0, 5427.0, 5422.0, 5355.0, 5639.0, 5455.0, 5580.0, 5677.0, 5277.0, 5322.0, 5276.0, 5251.0, 5354.0, 5701.0, 5408.0, 5613.0, 5711.0, 5591.0, 5682.0, 5330.0, 5623.0, 5722.0, 5439.0, 5712.0, 5289.0, 5505.0, 5710.0, 5425.0, 5566.0, 5324.0, 5481.0, 5460.0, 5534.0, 5341.0, 5620.0, 5504.0, 5559.0, 5578.0, 5402.0, 5596.0, 5718.0, 5448.0, 5655.0, 5421.0, 5577.0, 5671.0, 5670.0, 5518.0, 5328.0, 5615.0, 5353.0, 5273.0, 5517.0, 5516.0, 5721.0, 5358.0 (number of hits: 30 )
13	5290	9	1	333	1	5347.0, 5716.0, 5570.0, 5558.0, 5363.0, 5469.0, 5351.0, 5597.0, 5596.0, 5285.0, 5417.0, 5545.0, 5264.0, 5453.0, 5714.0, 5369.0, 5571.0, 5654.0, 5574.0, 5536.0, 5261.0, 5396.0, 5534.0, 5580.0, 5313.0, 5669.0, 5527.0, 5612.0, 5685.0, 5617.0, 5552.0, 5256.0, 5357.0, 5319.0, 5522.0, 5490.0, 5576.0, 5434.0, 5269.0, 5373.0, 5275.0, 5498.0, 5454.0, 5401.0, 5628.0, 5530.0, 5504.0, 5624.0, 5720.0, 5563.0, 5686.0, 5579.0, 5273.0, 5503.0, 5634.0, 5459.0, 5524.0, 5436.0, 5346.0, 5415.0, 5260.0, 5529.0, 5531.0, 5684.0, 5705.0, 5568.0, 5303.0, 5590.0, 5565.0, 5448.0, 5548.0, 5543.0, 5413.0, 5308.0, 5616.0, 5556.0, 5339.0, 5405.0, 5399.0, 5501.0, 5507.0, 5615.0, 5698.0, 5665.0, 5420.0, 5525.0, 5514.0, 5638.0, 5566.0, 5682.0, 5288.0, 5326.0, 5722.0, 5370.0, 5708.0, 5621.0, 5707.0, 5687.0, 5653.0, 5600.0 (number of hits: 21 )
14	5290	9	1	333	1	5320.0, 5340.0, 5569.0, 5438.0, 5680.0, 5584.0, 5705.0, 5477.0, 5334.0, 5265.0, 5309.0, 5289.0, 5625.0, 5691.0, 5543.0, 5276.0, 5451.0, 5551.0, 5611.0, 5656.0, 5635.0, 5561.0, 5271.0, 5300.0, 5327.0, 5689.0, 5361.0, 5570.0, 5395.0, 5534.0, 5526.0, 5431.0, 5695.0, 5673.0, 5677.0, 5649.0, 5274.0, 5412.0, 5279.0, 5375.0, 5294.0, 5710.0, 5359.0, 5399.0, 5530.0, 5444.0, 5494.0, 5462.0, 5697.0, 5286.0, 5460.0, 5445.0, 5709.0, 5666.0, 5620.0, 5674.0, 5548.0, 5417.0, 5304.0, 5632.0, 5408.0, 5292.0, 5391.0, 5254.0, 5386.0, 5608.0, 5553.0, 5540.0, 5692.0, 5575.0, 5615.0, 5541.0, 5299.0, 5533.0, 5435.0, 5593.0, 5348.0, 5440.0, 5488.0, 5484.0, 5500.0, 5527.0, 5517.0, 5474.0, 5362.0,

						5323.0, 5549.0, 5654.0, 5664.0, 5367.0, 5308.0, 5253.0, 5471.0, 5376.0, 5363.0, 5502.0, 5273.0, 5509.0, 5639.0, 5489.0 (number of hits: 28 )
15	5290	9	1	333	1	5319.0, 5265.0, 5543.0, 5433.0, 5404.0, 5562.0, 5712.0, 5678.0, 5279.0, 5415.0, 5340.0, 5566.0, 5269.0, 5339.0, 5310.0, 5252.0, 5609.0, 5253.0, 5514.0, 5657.0, 5579.0, 5595.0, 5307.0, 5644.0, 5626.0, 5257.0, 5510.0, 5410.0, 5544.0, 5388.0, 5335.0, 5519.0, 5371.0, 5418.0, 5378.0, 5259.0, 5438.0, 5351.0, 5407.0, 5337.0, 5492.0, 5425.0, 5495.0, 5695.0, 5330.0, 5287.0, 5593.0, 5473.0, 5674.0, 5376.0, 5549.0, 5629.0, 5587.0, 5596.0, 5345.0, 5396.0, 5372.0, 5536.0, 5328.0, 5440.0, 5711.0, 5653.0, 5262.0, 5577.0, 5254.0, 5414.0, 5392.0, 5389.0, 5572.0, 5377.0, 5476.0, 5666.0, 5673.0, 5462.0, 5293.0, 5685.0, 5256.0, 5365.0, 5460.0, 5585.0, 5472.0, 5528.0, 5671.0, 5349.0, 5560.0, 5496.0, 5361.0, 5341.0, 5676.0, 5581.0, 5507.0, 5409.0, 5499.0, 5386.0, 5491.0, 5535.0, 5654.0, 5387.0, 5290.0, 5675.0 (number of hits: 28 )
16	5290	9	1	333	1	5441.0, 5563.0, 5626.0, 5541.0, 5357.0, 5536.0, 5503.0, 5516.0, 5265.0, 5410.0, 5505.0, 5287.0, 5654.0, 5454.0, 5651.0, 5588.0, 5619.0, 5376.0, 5432.0, 5684.0, 5308.0, 5501.0, 5444.0, 5678.0, 5590.0, 5347.0, 5694.0, 5708.0, 5304.0, 5483.0, 5360.0, 5288.0, 5374.0, 5401.0, 5251.0, 5606.0, 5335.0, 5314.0, 5313.0, 5319.0, 5523.0, 5346.0, 5603.0, 5583.0, 5630.0, 5642.0, 5476.0, 5270.0, 5608.0, 5407.0, 5586.0, 5449.0, 5517.0, 5474.0, 5305.0, 5530.0, 5527.0, 5616.0, 5466.0, 5625.0, 5490.0, 5387.0, 5487.0, 5599.0, 5575.0, 5614.0, 5263.0, 5653.0, 5412.0, 5271.0, 5406.0, 5572.0, 5681.0, 5350.0, 5386.0, 5571.0, 5695.0, 5613.0, 5301.0, 5548.0, 5260.0, 5574.0, 5538.0, 5362.0, 5418.0, 5633.0, 5258.0, 5356.0, 5628.0, 5564.0, 5382.0, 5468.0, 5587.0, 5542.0, 5482.0, 5553.0, 5486.0, 5543.0, 5268.0, 5273.0 (number of hits: 26 )
17	5290	9	1	333	1	5338.0, 5300.0, 5567.0, 5569.0, 5517.0, 5497.0, 5273.0, 5635.0, 5359.0, 5254.0, 5270.0, 5723.0, 5543.0, 5544.0, 5280.0, 5327.0, 5685.0, 5470.0, 5484.0, 5615.0, 5340.0, 5262.0, 5442.0, 5275.0, 5337.0, 5660.0, 5432.0, 5584.0, 5370.0, 5563.0, 5656.0, 5451.0, 5410.0, 5686.0, 5704.0, 5294.0, 5594.0, 5606.0, 5604.0, 5386.0, 5271.0, 5523.0, 5539.0, 5375.0, 5534.0, 5315.0, 5506.0, 5263.0, 5297.0, 5688.0, 5491.0, 5644.0, 5468.0, 5500.0, 5591.0, 5628.0, 5531.0, 5431.0, 5411.0, 5402.0, 5419.0, 5429.0, 5571.0, 5387.0, 5637.0,

						5486.0, 5394.0, 5360.0, 5421.0, 5401.0, 5308.0, 5388.0, 5601.0, 5710.0, 5683.0, 5670.0, 5673.0, 5321.0, 5689.0, 5501.0, 5672.0, 5295.0, 5706.0, 5436.0, 5307.0, 5496.0, 5369.0, 5384.0, 5701.0, 5680.0, 5499.0, 5614.0, 5542.0, 5356.0, 5434.0, 5707.0, 5424.0, 5548.0, 5253.0, 5581.0 (number of hits: 25 )
18	5290	9	1	333	1	5542.0, 5649.0, 5331.0, 5659.0, 5252.0, 5263.0, 5680.0, 5637.0, 5308.0, 5547.0, 5724.0, 5638.0, 5619.0, 5596.0, 5414.0, 5696.0, 5529.0, 5605.0, 5385.0, 5580.0, 5536.0, 5602.0, 5395.0, 5313.0, 5693.0, 5324.0, 5561.0, 5670.0, 5329.0, 5564.0, 5370.0, 5273.0, 5565.0, 5299.0, 5253.0, 5309.0, 5266.0, 5686.0, 5577.0, 5473.0, 5463.0, 5677.0, 5455.0, 5528.0, 5699.0, 5310.0, 5621.0, 5679.0, 5393.0, 5654.0, 5286.0, 5345.0, 5493.0, 5556.0, 5613.0, 5462.0, 5665.0, 5474.0, 5485.0, 5406.0, 5531.0, 5590.0, 5534.0, 5481.0, 5714.0, 5614.0, 5620.0, 5635.0, 5566.0, 5569.0, 5633.0, 5701.0, 5318.0, 5288.0, 5260.0, 5315.0, 5615.0, 5337.0, 5694.0, 5583.0, 5452.0, 5429.0, 5312.0, 5664.0, 5320.0, 5538.0, 5274.0, 5334.0, 5706.0, 5522.0, 5282.0, 5316.0, 5303.0, 5642.0, 5708.0, 5535.0, 5419.0, 5444.0, 5294.0, 5321.0 (number of hits: 29 )
19	5290	9	1	333	1	5679.0, 5384.0, 5290.0, 5521.0, 5377.0, 5608.0, 5469.0, 5572.0, 5333.0, 5550.0, 5536.0, 5468.0, 5560.0, 5645.0, 5434.0, 5329.0, 5400.0, 5461.0, 5332.0, 5396.0, 5609.0, 5627.0, 5331.0, 5520.0, 5565.0, 5714.0, 5720.0, 5435.0, 5503.0, 5619.0, 5576.0, 5551.0, 5558.0, 5383.0, 5441.0, 5452.0, 5566.0, 5487.0, 5284.0, 5302.0, 5544.0, 5355.0, 5315.0, 5573.0, 5542.0, 5597.0, 5686.0, 5428.0, 5481.0, 5531.0, 5352.0, 5703.0, 5401.0, 5625.0, 5590.0, 5410.0, 5601.0, 5337.0, 5591.0, 5376.0, 5451.0, 5515.0, 5439.0, 5294.0, 5539.0, 5614.0, 5605.0, 5510.0, 5416.0, 5458.0, 5641.0, 5446.0, 5285.0, 5429.0, 5317.0, 5470.0, 5327.0, 5626.0, 5540.0, 5407.0, 5562.0, 5420.0, 5685.0, 5675.0, 5372.0, 5516.0, 5418.0, 5479.0, 5274.0, 5370.0, 5361.0, 5709.0, 5387.0, 5339.0, 5712.0, 5508.0, 5398.0, 5296.0, 5449.0, 5668.0 (number of hits: 19 )
20	5290	9	1	333	1	5686.0, 5431.0, 5389.0, 5320.0, 5697.0, 5689.0, 5472.0, 5441.0, 5487.0, 5423.0, 5708.0, 5628.0, 5455.0, 5356.0, 5654.0, 5272.0, 5380.0, 5473.0, 5351.0, 5301.0, 5264.0, 5607.0, 5477.0, 5665.0, 5565.0, 5326.0, 5510.0, 5273.0, 5307.0, 5605.0, 5319.0, 5688.0, 5471.0, 5596.0, 5567.0, 5457.0, 5412.0, 5715.0, 5655.0, 5658.0, 5278.0, 5435.0, 5533.0, 5583.0, 5397.0,

						5413.0, 5276.0, 5543.0, 5698.0, 5355.0, 5417.0, 5619.0, 5306.0, 5707.0, 5534.0, 5581.0, 5367.0, 5290.0, 5709.0, 5401.0, 5711.0, 5659.0, 5500.0, 5610.0, 5716.0, 5615.0, 5486.0, 5369.0, 5465.0, 5385.0, 5546.0, 5364.0, 5508.0, 5323.0, 5701.0, 5274.0, 5295.0, 5302.0, 5411.0, 5294.0, 5456.0, 5519.0, 5634.0, 5557.0, 5322.0, 5360.0, 5383.0, 5480.0, 5346.0, 5547.0, 5262.0, 5608.0, 5633.0, 5406.0, 5497.0, 5327.0, 5464.0, 5651.0, 5594.0, 5632.0 (number of hits: 28 )
21	5290	9	1	333	1	5671.0, 5391.0, 5263.0, 5458.0, 5634.0, 5384.0, 5352.0, 5372.0, 5641.0, 5519.0, 5364.0, 5639.0, 5504.0, 5414.0, 5374.0, 5576.0, 5462.0, 5485.0, 5443.0, 5523.0, 5418.0, 5513.0, 5552.0, 5599.0, 5697.0, 5449.0, 5586.0, 5699.0, 5363.0, 5308.0, 5551.0, 5311.0, 5630.0, 5429.0, 5270.0, 5652.0, 5317.0, 5597.0, 5723.0, 5354.0, 5288.0, 5447.0, 5557.0, 5638.0, 5410.0, 5498.0, 5367.0, 5616.0, 5541.0, 5460.0, 5633.0, 5691.0, 5424.0, 5416.0, 5674.0, 5500.0, 5568.0, 5631.0, 5269.0, 5421.0, 5358.0, 5522.0, 5696.0, 5455.0, 5581.0, 5490.0, 5678.0, 5702.0, 5608.0, 5320.0, 5401.0, 5412.0, 5689.0, 5521.0, 5669.0, 5595.0, 5705.0, 5258.0, 5531.0, 5436.0, 5501.0, 5538.0, 5644.0, 5370.0, 5479.0, 5600.0, 5588.0, 5596.0, 5621.0, 5690.0, 5423.0, 5722.0, 5559.0, 5251.0, 5566.0, 5609.0, 5351.0, 5520.0, 5688.0, 5615.0 (number of hits: 17 )
22	5290	9	1	333	1	5493.0, 5552.0, 5372.0, 5491.0, 5420.0, 5306.0, 5675.0, 5698.0, 5288.0, 5515.0, 5453.0, 5275.0, 5280.0, 5261.0, 5615.0, 5637.0, 5424.0, 5363.0, 5563.0, 5483.0, 5578.0, 5701.0, 5713.0, 5284.0, 5305.0, 5558.0, 5314.0, 5370.0, 5330.0, 5589.0, 5338.0, 5264.0, 5283.0, 5511.0, 5647.0, 5289.0, 5682.0, 5265.0, 5513.0, 5376.0, 5466.0, 5635.0, 5687.0, 5616.0, 5498.0, 5445.0, 5656.0, 5345.0, 5475.0, 5354.0, 5478.0, 5711.0, 5392.0, 5397.0, 5496.0, 5438.0, 5404.0, 5643.0, 5332.0, 5369.0, 5662.0, 5684.0, 5597.0, 5310.0, 5569.0, 5549.0, 5462.0, 5312.0, 5706.0, 5361.0, 5390.0, 5418.0, 5333.0, 5692.0, 5419.0, 5605.0, 5279.0, 5471.0, 5285.0, 5650.0, 5694.0, 5477.0, 5532.0, 5355.0, 5690.0, 5291.0, 5408.0, 5634.0, 5331.0, 5529.0, 5590.0, 5533.0, 5677.0, 5688.0, 5460.0, 5324.0, 5350.0, 5260.0, 5346.0, 5317.0 (number of hits: 33 )
23	5290	9	1	333	1	5562.0, 5441.0, 5313.0, 5339.0, 5403.0, 5470.0, 5327.0, 5605.0, 5507.0, 5375.0, 5454.0, 5681.0, 5422.0, 5696.0, 5304.0, 5536.0, 5378.0, 5298.0, 5414.0, 5693.0, 5707.0, 5450.0, 5372.0, 5446.0, 5277.0,

						5482.0, 5683.0, 5692.0, 5527.0, 5430.0, 5514.0, 5691.0, 5483.0, 5676.0, 5376.0, 5542.0, 5390.0, 5393.0, 5426.0, 5400.0, 5335.0, 5333.0, 5704.0, 5571.0, 5406.0, 5410.0, 5650.0, 5520.0, 5506.0, 5554.0, 5579.0, 5359.0, 5593.0, 5599.0, 5537.0, 5268.0, 5269.0, 5701.0, 5639.0, 5673.0, 5264.0, 5627.0, 5531.0, 5510.0, 5508.0, 5363.0, 5291.0, 5622.0, 5638.0, 5435.0, 5472.0, 5637.0, 5445.0, 5611.0, 5436.0, 5262.0, 5703.0, 5706.0, 5645.0, 5440.0, 5371.0, 5412.0, 5594.0, 5354.0, 5365.0, 5674.0, 5719.0, 5556.0, 5623.0, 5715.0, 5474.0, 5576.0, 5439.0, 5551.0, 5540.0, 5658.0, 5517.0, 5519.0, 5652.0, 5322.0 (number of hits: 18 )
24	5290	9	1	333	1	5375.0, 5611.0, 5617.0, 5365.0, 5640.0, 5391.0, 5503.0, 5396.0, 5474.0, 5542.0, 5633.0, 5679.0, 5418.0, 5496.0, 5251.0, 5511.0, 5601.0, 5466.0, 5399.0, 5600.0, 5513.0, 5468.0, 5522.0, 5342.0, 5316.0, 5337.0, 5463.0, 5386.0, 5620.0, 5286.0, 5398.0, 5531.0, 5652.0, 5426.0, 5676.0, 5539.0, 5488.0, 5698.0, 5722.0, 5448.0, 5584.0, 5296.0, 5724.0, 5319.0, 5321.0, 5721.0, 5530.0, 5280.0, 5604.0, 5328.0, 5438.0, 5543.0, 5545.0, 5627.0, 5446.0, 5340.0, 5718.0, 5353.0, 5345.0, 5326.0, 5714.0, 5273.0, 5409.0, 5274.0, 5653.0, 5416.0, 5359.0, 5413.0, 5354.0, 5581.0, 5497.0, 5382.0, 5663.0, 5381.0, 5567.0, 5572.0, 5420.0, 5384.0, 5501.0, 5314.0, 5491.0, 5504.0, 5432.0, 5411.0, 5464.0, 5289.0, 5485.0, 5492.0, 5557.0, 5662.0, 5599.0, 5559.0, 5661.0, 5270.0, 5694.0, 5613.0, 5592.0, 5607.0, 5417.0, 5672.0 (number of hits: 22 )
25	5290	9	1	333	1	5452.0, 5426.0, 5577.0, 5592.0, 5552.0, 5644.0, 5631.0, 5344.0, 5295.0, 5330.0, 5700.0, 5628.0, 5660.0, 5556.0, 5502.0, 5510.0, 5491.0, 5382.0, 5342.0, 5500.0, 5530.0, 5437.0, 5431.0, 5590.0, 5611.0, 5279.0, 5598.0, 5618.0, 5687.0, 5532.0, 5583.0, 5314.0, 5547.0, 5605.0, 5318.0, 5678.0, 5643.0, 5347.0, 5492.0, 5692.0, 5358.0, 5519.0, 5489.0, 5282.0, 5337.0, 5520.0, 5600.0, 5462.0, 5459.0, 5457.0, 5717.0, 5390.0, 5621.0, 5521.0, 5586.0, 5498.0, 5374.0, 5460.0, 5573.0, 5265.0, 5488.0, 5442.0, 5365.0, 5635.0, 5499.0, 5503.0, 5680.0, 5606.0, 5276.0, 5560.0, 5609.0, 5463.0, 5315.0, 5450.0, 5572.0, 5323.0, 5711.0, 5384.0, 5501.0, 5455.0, 5614.0, 5641.0, 5394.0, 5408.0, 5269.0, 5551.0, 5273.0, 5509.0, 5514.0, 5623.0, 5473.0, 5553.0, 5290.0, 5512.0, 5670.0, 5709.0, 5373.0, 5681.0, 5405.0, 5494.0 (number of hits: 19 )
26	5290	9	1	333	1	5676.0, 5500.0, 5553.0, 5546.0, 5589.0,

						5274.0, 5359.0, 5527.0, 5305.0, 5404.0, 5339.0, 5595.0, 5566.0, 5372.0, 5515.0, 5634.0, 5356.0, 5387.0, 5389.0, 5256.0, 5560.0, 5345.0, 5485.0, 5433.0, 5262.0, 5303.0, 5594.0, 5507.0, 5301.0, 5311.0, 5257.0, 5399.0, 5300.0, 5272.0, 5445.0, 5397.0, 5685.0, 5480.0, 5279.0, 5543.0, 5308.0, 5664.0, 5253.0, 5603.0, 5405.0, 5312.0, 5406.0, 5268.0, 5528.0, 5261.0, 5490.0, 5442.0, 5652.0, 5644.0, 5612.0, 5332.0, 5585.0, 5587.0, 5494.0, 5420.0, 5496.0, 5287.0, 5259.0, 5474.0, 5717.0, 5297.0, 5493.0, 5418.0, 5708.0, 5492.0, 5535.0, 5465.0, 5269.0, 5499.0, 5285.0, 5663.0, 5617.0, 5688.0, 5463.0, 5698.0, 5377.0, 5348.0, 5623.0, 5694.0, 5718.0, 5555.0, 5349.0, 5557.0, 5702.0, 5707.0, 5352.0, 5610.0, 5513.0, 5264.0, 5423.0, 5509.0, 5613.0, 5518.0, 5588.0, 5457.0 (number of hits: 30 )
27	5290	9	1	333	1	5356.0, 5522.0, 5336.0, 5596.0, 5582.0, 5624.0, 5284.0, 5335.0, 5665.0, 5620.0, 5535.0, 5536.0, 5690.0, 5377.0, 5402.0, 5696.0, 5276.0, 5597.0, 5539.0, 5363.0, 5556.0, 5341.0, 5404.0, 5622.0, 5252.0, 5383.0, 5577.0, 5261.0, 5635.0, 5259.0, 5612.0, 5283.0, 5343.0, 5306.0, 5627.0, 5563.0, 5716.0, 5311.0, 5291.0, 5714.0, 5541.0, 5720.0, 5521.0, 5400.0, 5450.0, 5411.0, 5327.0, 5437.0, 5302.0, 5569.0, 5370.0, 5444.0, 5519.0, 5655.0, 5489.0, 5279.0, 5376.0, 5702.0, 5594.0, 5416.0, 5349.0, 5301.0, 5286.0, 5675.0, 5372.0, 5476.0, 5441.0, 5610.0, 5315.0, 5453.0, 5507.0, 5415.0, 5674.0, 5571.0, 5403.0, 5614.0, 5583.0, 5513.0, 5375.0, 5440.0, 5673.0, 5554.0, 5721.0, 5257.0, 5405.0, 5354.0, 5587.0, 5668.0, 5651.0, 5689.0, 5442.0, 5636.0, 5566.0, 5353.0, 5687.0, 5695.0, 5621.0, 5693.0, 5384.0, 5399.0 (number of hits: 25 )
28	5290	9	1	333	1	5689.0, 5376.0, 5692.0, 5507.0, 5304.0, 5631.0, 5400.0, 5552.0, 5492.0, 5280.0, 5562.0, 5554.0, 5292.0, 5272.0, 5459.0, 5260.0, 5340.0, 5672.0, 5270.0, 5440.0, 5305.0, 5254.0, 5590.0, 5426.0, 5663.0, 5325.0, 5516.0, 5263.0, 5714.0, 5251.0, 5650.0, 5522.0, 5430.0, 5342.0, 5560.0, 5314.0, 5289.0, 5545.0, 5281.0, 5456.0, 5327.0, 5339.0, 5607.0, 5353.0, 5646.0, 5667.0, 5635.0, 5638.0, 5420.0, 5380.0, 5529.0, 5318.0, 5718.0, 5531.0, 5588.0, 5466.0, 5326.0, 5593.0, 5357.0, 5645.0, 5651.0, 5252.0, 5394.0, 5630.0, 5253.0, 5322.0, 5262.0, 5424.0, 5671.0, 5622.0, 5463.0, 5696.0, 5437.0, 5256.0, 5444.0, 5617.0, 5395.0, 5555.0, 5720.0, 5486.0, 5406.0, 5621.0, 5606.0, 5385.0, 5609.0, 5334.0, 5547.0, 5372.0, 5532.0, 5311.0,

						5307.0, 5276.0, 5369.0, 5393.0, 5513.0, 5294.0, 5662.0, 5283.0, 5680.0, 5328.0 (number of hits: 35 )
29	5290	9	1	333	1	5496.0, 5420.0, 5685.0, 5604.0, 5712.0, 5417.0, 5485.0, 5625.0, 5512.0, 5713.0, 5577.0, 5619.0, 5429.0, 5600.0, 5440.0, 5284.0, 5659.0, 5628.0, 5324.0, 5665.0, 5601.0, 5419.0, 5587.0, 5684.0, 5645.0, 5722.0, 5646.0, 5699.0, 5494.0, 5706.0, 5406.0, 5303.0, 5400.0, 5710.0, 5663.0, 5341.0, 5688.0, 5598.0, 5590.0, 5593.0, 5462.0, 5559.0, 5540.0, 5609.0, 5266.0, 5670.0, 5308.0, 5333.0, 5565.0, 5538.0, 5717.0, 5570.0, 5271.0, 5402.0, 5390.0, 5381.0, 5526.0, 5498.0, 5366.0, 5547.0, 5614.0, 5518.0, 5514.0, 5656.0, 5431.0, 5349.0, 5631.0, 5257.0, 5409.0, 5356.0, 5423.0, 5519.0, 5295.0, 5391.0, 5714.0, 5558.0, 5511.0, 5632.0, 5683.0, 5583.0, 5704.0, 5635.0, 5610.0, 5696.0, 5543.0, 5523.0, 5707.0, 5605.0, 5463.0, 5364.0, 5672.0, 5288.0, 5307.0, 5447.0, 5552.0, 5421.0, 5652.0, 5408.0, 5502.0, 5503.0 (number of hits: 16 )
30	5290	9	1	333	1	5295.0, 5399.0, 5620.0, 5565.0, 5500.0, 5676.0, 5699.0, 5350.0, 5422.0, 5358.0, 5356.0, 5479.0, 5638.0, 5359.0, 5589.0, 5595.0, 5515.0, 5357.0, 5477.0, 5588.0, 5457.0, 5439.0, 5305.0, 5499.0, 5414.0, 5345.0, 5334.0, 5466.0, 5502.0, 5311.0, 5409.0, 5376.0, 5480.0, 5494.0, 5454.0, 5713.0, 5386.0, 5284.0, 5567.0, 5634.0, 5649.0, 5654.0, 5314.0, 5678.0, 5573.0, 5437.0, 5373.0, 5577.0, 5418.0, 5556.0, 5456.0, 5421.0, 5501.0, 5664.0, 5536.0, 5443.0, 5285.0, 5282.0, 5560.0, 5324.0, 5402.0, 5407.0, 5365.0, 5525.0, 5489.0, 5505.0, 5516.0, 5545.0, 5574.0, 5506.0, 5262.0, 5292.0, 5445.0, 5280.0, 5485.0, 5255.0, 5613.0, 5341.0, 5276.0, 5694.0, 5528.0, 5521.0, 5541.0, 5538.0, 5472.0, 5425.0, 5397.0, 5398.0, 5404.0, 5267.0, 5643.0, 5700.0, 5286.0, 5703.0, 5309.0, 5674.0, 5396.0, 5675.0, 5420.0, 5429.0 (number of hits: 25 )

**80MHz**

<b>Radar Signal Type</b>	<b>Waveform/Trial Number</b>	<b>Detection (%)</b>	<b>Limit (%)</b>	<b>Pass/Fail</b>
<b>Type 1A</b>	15	100%	60%	pass
<b>Type 1B</b>	15	100%	60%	pass
<b>Type 2</b>	30	93.3%	60%	Pass
<b>Type 3</b>	30	100 %	60%	Pass
<b>Type 4</b>	30	100 %	60%	Pass
<b>Aggregate(Type1 to 4)</b>	120	98.33%	80%	Pass
<b>Type 5</b>	30	96.67 %	80%	Pass
<b>Type 6</b>	30	100 %	70%	Pass

Please refer to the following statistical tables:



**5290MHz:****Radar Type 1A Statistical Performance**

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μs)	PRI (μs)	Detection (1:yes; 0:no)
1	5290	72	1	738	1
2	5290	68	1	778	1
3	5290	99	1	538	1
4	5290	89	1	598	1
5	5290	92	1	578	1
6	5290	102	1	518	1
7	5290	95	1	558	1
8	5290	81	1	658	1
9	5290	63	1	838	1
10	5290	62	1	858	1
11	5290	58	1	918	1
12	5290	65	1	818	1
13	5290	57	1	938	1
14	5290	67	1	798	1
15	5290	76	1	698	1
Detection Percentage: 100% (>60%)					

**Radar Type 1B Statistical Performance**

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μs)	PRI (μs)	Detection (1:yes; 0:no)
1	5290	26	1	2085	1
2	5290	23	1	2384	1
3	5290	21	1	2559	1
4	5290	18	1	2937	1
5	5290	19	1	2897	1
6	5290	55	1	966	1
7	5290	42	1	1268	1
8	5290	18	1	3045	1
9	5290	24	1	2289	1
10	5290	24	1	2218	1
11	5290	65	1	817	1
12	5290	45	1	1183	1
13	5290	20	1	2717	1
14	5290	21	1	2630	1
15	5290	30	1	1807	1
Detection Percentage: 100 % (>60%)					

**Radar Type 2 Statistical Performance**

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5290	27	3.2	186	1
2	5290	29	2.4	173	1
3	5290	25	1.2	196	1
4	5290	24	2.1	152	1
5	5290	23	3.4	177	0
6	5290	29	4.9	191	1
7	5290	25	2.6	154	1
8	5290	25	4.6	214	1
9	5290	24	1.7	203	1
10	5290	28	2.1	163	1
11	5290	25	4.3	214	1
12	5290	29	1.8	188	0
13	5290	26	4.8	154	1
14	5290	27	4.2	154	1
15	5290	27	1.4	166	1
16	5290	29	4.3	221	1
17	5290	27	3.9	207	1
18	5290	27	3.9	216	1
19	5290	26	3.5	184	1
20	5290	23	2.6	197	1
21	5290	27	4	200	1
22	5290	23	1.8	198	1
23	5290	23	3	163	1
24	5290	23	2.5	192	1
25	5290	25	2.2	197	1
26	5290	26	3.1	163	1
27	5290	29	1.1	229	1
28	5290	27	2.6	187	1
29	5290	29	1.7	152	1
30	5290	24	4.8	220	1
<b>Detection Percentage: 93.3 % (&gt;60%)</b>					

**Radar Type 3 Statistical Performance**

<b>Trial #</b>	<b>Fc (MHz)</b>	<b>Pulse/Burst</b>	<b>Pulse Width (μs)</b>	<b>PRI (μs)</b>	<b>Detection (1:yes; 0:no)</b>
1	5290	16	6.3	328	1
2	5290	18	6.9	347	1
3	5290	17	8.3	217	1
4	5290	18	8.4	270	1
5	5290	18	8	296	1
6	5290	16	9.8	247	1
7	5290	16	9.6	369	1
8	5290	16	8.9	494	1
9	5290	17	9.4	433	1
10	5290	16	9.4	357	1
11	5290	17	7.9	481	1
12	5290	16	9.1	319	1
13	5290	18	8.9	320	1
14	5290	18	8.9	303	1
15	5290	17	8.1	293	1
16	5290	16	8.1	251	1
17	5290	17	6.6	335	1
18	5290	18	7.3	297	1
19	5290	18	7.3	424	1
20	5290	18	6	272	1
21	5290	18	6.8	325	1
22	5290	17	7.3	361	1
23	5290	16	9.8	300	1
24	5290	17	6.6	358	1
25	5290	16	8	318	1
26	5290	16	8.2	500	1
27	5290	18	9.3	487	1
28	5290	17	9.1	469	1
29	5290	16	7.2	259	1
30	5290	16	8.4	206	1
<b>Detection Percentage: 100% (&gt;60%)</b>					

**Radar Type 4 Statistical Performance**

<b>Trial #</b>	<b>Fc (MHz)</b>	<b>Pulse/Burst</b>	<b>Pulse Width (μS)</b>	<b>PRI (μs)</b>	<b>Detection (1:yes; 0:no)</b>
1	5290	15	11.8	290	1
2	5290	16	12.8	396	1
3	5290	13	15.5	396	1
4	5290	15	13.6	213	1
5	5290	13	11.6	292	1
6	5290	13	19.8	369	1
7	5290	12	17.6	333	1
8	5290	12	19.2	368	1
9	5290	16	12.3	438	1
10	5290	12	15.7	411	1
11	5290	12	14.8	416	1
12	5290	15	13.5	208	1
13	5290	14	16.1	312	1
14	5290	15	15.9	421	1
15	5290	16	16.7	375	1
16	5290	12	18	202	1
17	5290	12	17	317	1
18	5290	13	16.5	313	1
19	5290	12	14.3	478	1
20	5290	16	14.8	262	1
21	5290	16	15.1	250	1
22	5290	12	15.5	309	1
23	5290	15	11.7	492	1
24	5290	14	17.2	395	1
25	5290	14	16.6	335	1
26	5290	13	19.7	465	1
27	5290	12	12	258	1
28	5290	12	11.4	294	1
29	5290	15	11.7	222	1
30	5290	15	14.3	494	1
<b>Detection Percentage: 100% (&gt;60%)</b>					

**Radar Type 5 Case 1 Statistical Performance**

Statistics 1 (ChirpCenter Frequency: 5290.0MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	10	76.8	1183		0.548223	1
1	3	10	78.5	1015	1174	1.068046	
2	1	10	63.4			1.270531	
3	3	10	94.7	1696	1369	2.284969	
4	1	10	80.9			3.073407	
5	2	10	88.1	1871		3.211219	
6	2	10	87.2	1272		3.851045	
7	3	10	95.7	1571	1192	4.673949	
8	1	10	74.9			5.196563	
9	2	10	95	1809		5.929225	
10	1	10	99.5			6.857228	
11	2	10	73.1	1211		7.318762	
12	2	10	57	1269		8.154786	
13	1	10	95.4			8.350431	
14	2	10	63	1994		9.25206	
15	2	10	55.2	1606		10.07873	
16	1	10	94.6			10.35511	
17	2	10	62.4	1354		11.31371	
18	1	10	50.2			11.69874	

Statistics 2 (ChirpCenter Frequency: 5290.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	6	71.5	1369	1859	0.018094	1
1	3	6	94.1	1765	1025	1.046635	
2	2	6	74.8	1798		1.786165	
3	2	6	71.3	1166		2.321164	
4	2	6	50.9	1247		3.210645	
5	1	6	61.9			4.072919	
6	1	6	94.9			5.095908	
7	1	6	99			5.623078	
8	2	6	66.2	1818		6.280418	
9	1	6	95			6.767163	
10	3	6	75.4	1414	1284	7.98807	
11	3	6	92.7	1085	1440	8.301293	
12	1	6	57.7			9.57441	
13	3	6	98	1848	1887	10.21548	
14	2	6	95.7	1997		10.72969	
15	3	6	96.9	1378	1255	11.27951	

## Statistics 3 (ChirpCenter Frequency: 5290.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	12	74.3	1513		0.211227	1
1	1	12	90.4			2.365895	
2	2	12	52.4	1860		3.288083	
3	3	12	92.7	1289	1942	3.784651	
4	2	12	84.9	1794		4.806176	
5	2	12	86.1	1161		6.524535	
6	3	12	51	1313	1688	8.310494	
7	2	12	64.1	1113		9.561559	
8	2	12	88.5	1425		10.44579	
9	1	12	62.4			10.92648	

## Statistics 4 (ChirpCenter Frequency: 5290.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	8	59.5			0.351184	1
1	3	8	52.9	1171	1451	1.101919	
2	1	8	89			1.799223	
3	1	8	69.6			2.789039	
4	1	8	83.5			3.693814	
5	2	8	96.4	1642		4.314777	
6	1	8	52.6			4.715136	
7	3	8	75.5	1758	1001	5.896608	
8	2	8	69.8	1202		6.685444	
9	2	8	82	1755		7.001235	
10	2	8	63.4	1968		7.806744	
11	1	8	90.1			8.610142	
12	2	8	61.6	1015		9.398257	
13	1	8	60.8			10.44427	
14	2	8	85.6	1731		11.06522	
15	1	8	63.2			11.45119	

Statistics 5(ChirpCenter Frequency: 5290.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	15	70.7	1989		0.117616	1
1	3	15	78.6	1784	1542	1.412626	
2	2	15	57.2	1077		2.279524	
3	2	15	68.3	1388		2.776788	
4	2	15	95.9	1439		3.985584	
5	2	15	88.5	1339		4.193416	
6	2	15	54.8	1363		5.377037	
7	1	15	56.5			6.264776	
8	1	15	92.8			6.81742	
9	1	15	76.4			7.546703	
10	2	15	81	1062		8.294998	
11	1	15	76.7			9.526499	
12	3	15	58.9	1368	1956	10.28969	
13	2	15	78.5	1939		10.75441	
14	2	15	84	1181		11.97905	

Statistics 6 (ChirpCenter Frequency: 5290.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	11	53.6	1234		0.207247	1
1	3	11	56.2	1054	1800	1.313028	
2	2	11	83	1852		1.507182	
3	2	11	73	1815		2.53588	
4	2	11	55	1089		3.041118	
5	2	11	79	1114		3.538709	
6	2	11	54.5	1632		4.413119	
7	3	11	92.2	1810	1778	5.10651	
8	1	11	99.5			5.35751	
9	1	11	50.2			6.562093	
10	3	11	82.7	1097	1530	7.026298	
11	1	11	94.9			7.742418	
12	1	11	96.6			8.453133	
13	3	11	71.8	1853	1773	8.986947	
14	2	11	83.2	1361		9.968669	
15	1	11	65.8			10.59835	
16	1	11	59.7			11.1214	
17	3	11	87.8	1574	1682	11.36825	

Statistics 7(ChirpCenter Frequency: 5290.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	13	85.4	1728		0.697044	1
1	2	13	57.8	1196		2.320649	
2	1	13	64.4			3.591002	
3	1	13	95.4			4.641665	
4	1	13	97.2			5.770571	
5	3	13	86.8	1199	1304	6.829194	
6	3	13	75.6	1578	1914	8.277751	
7	3	13	79.8	1983	1758	8.892471	
8	2	13	97.2	1723		10.61215	
9	1	13	93.5			11.14478	

Statistics 8 (ChirpCenter Frequency: 5290.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	14	81.2	1832		0.453936	1
1	2	14	72.3	1523		1.530506	
2	2	14	99.4	1010		1.713605	
3	3	14	97.9	1747	1994	2.670739	
4	2	14	90.2	1904		3.715677	
5	2	14	84.6	1818		4.6475	
6	2	14	86.6	1507		5.456689	
7	2	14	73.4	1577		5.61704	
8	1	14	82.9			7.033392	
9	2	14	87.6	1361		7.304532	
10	2	14	96.9	1594		8.402741	
11	3	14	62.4	1316	1599	9.348321	
12	2	14	54.4	1651		10.34	
13	3	14	50.1	1547	1173	10.44583	
14	3	14	61	1655	1491	11.83658	



## Statistics 9 (ChirpCenter Frequency: 5290.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	9	89.8			1.049037	1
1	1	9	51.2			2.371975	
2	3	9	80.6	1351	1361	3.035337	
3	3	9	55	1085	1027	3.958496	
4	3	9	57.6	1145	1538	5.581082	
5	2	9	88.3	1966		6.321423	
6	2	9	50.5	1654		7.380656	
7	1	9	97.7			9.528593	
8	2	9	69.1	1679		9.601614	
9	1	9	66.2			11.06213	

## Statistics 10 (ChirpCenter Frequency: 5290.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	11	82.3	1825		0.128921	1
1	2	11	85.2	1010		1.517995	
2	2	11	82.8	1403		1.867187	
3	3	11	85.9	1827	1293	2.821938	
4	2	11	54	1443		4.219747	
5	3	11	84.7	1901	1283	5.401463	
6	1	11	52.8			6.217731	
7	2	11	51.1	1955		6.589579	
8	2	11	67.4	1246		8.256039	
9	3	11	54.2	1132	1159	8.55152	
10	2	11	83.9	1017		9.643093	
11	3	11	79.8	1266	1045	10.72584	
12	3	11	85.8	1950	1526	11.57729	

**Radar Type 5 Case 2 Statistical Performance**

Statistics 1 (ChirpCenter Frequency: 5254.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	11	93.8			0.173971	1
1	3	11	85.2	1977	1176	1.557233	
2	2	11	65.7	1865		2.344421	
3	1	11	66.7			3.06264	
4	1	11	97.9			3.607968	
5	1	11	94			4.630503	
6	2	11	93.1	1008		5.419318	
7	2	11	97	1861		5.909839	
8	2	11	91.6	1930		6.604573	
9	2	11	53.4	1037		7.233139	
10	2	11	84.6	1869		8.717787	
11	1	11	57.5			9.44334	
12	3	11	78.4	1413	1366	9.838894	
13	3	11	57.5	1425	1152	10.67843	
14	3	11	59.9	1855	1492	11.55654	

Statistics 2 (ChirpCenter Frequency: 5258.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	19	64.1			0.569707	1
1	3	19	88.9	1694	1129	1.196532	
2	3	19	88.7	1299	1080	1.913427	
3	1	19	52.2			2.001687	
4	2	19	96.2	1231		3.306863	
5	1	19	70.7			3.635704	
6	1	19	57.3			4.644809	
7	2	19	70.4	1793		4.949092	
8	2	19	56.7	1239		5.754832	
9	3	19	56	1343	1713	6.279921	
10	2	19	68.2	1555		7.123853	
11	2	19	90.5	1180		7.360496	
12	1	19	78.2			8.588347	
13	1	19	82.7			8.724832	
14	1	19	99.9			9.502456	
15	2	19	70.9	1146		10.3933	
16	2	19	62.4	1172		10.67109	
17	3	19	96.2	1588	1460	11.73781	

## Statistics 3 (ChirpCenter Frequency: 5255.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	12	70.7	1269		0.853442	1
1	2	12	73.6	1675		1.264646	
2	3	12	66.5	1848	1115	2.280554	
3	1	12	85.6			3.078971	
4	1	12	62.2			4.467479	
5	2	12	90.9	1430		5.34669	
6	1	12	74.9			6.890319	
7	3	12	77.3	1322	1489	7.592528	
8	2	12	67.1	1507		8.798962	
9	2	12	92	1500		9.714322	
10	2	12	98.1	1290		10.09071	
11	3	12	50.8	1017	1875	11.31898	

## Statistics 4 (ChirpCenter Frequency: 5254.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	11	71.5	1249	1397	0.362436	1
1	1	11	52.9			1.090006	
2	2	11	62.8	1335		1.455993	
3	2	11	62.3	1796		2.417633	
4	3	11	83.3	1226	1766	2.967593	
5	2	11	74.8	1363		4.013945	
6	1	11	75.6			4.455071	
7	2	11	83.5	1032		5.250275	
8	1	11	93.9			6.068409	
9	3	11	59.5	1837	1349	6.708705	
10	2	11	85.8	1786		7.722562	
11	3	11	61.6	1846	1479	8.325781	
12	3	11	87.4	1353	1852	8.757544	
13	2	11	50.5	1051		9.200859	
14	3	11	84.9	1886	1134	10.23089	
15	2	11	59.7	1987		10.9268	
16	2	11	78.9	1594		11.69664	

Statistics 5 (ChirpCenter Frequency: 5256.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	14	63.7	1938	1619	0.213073	1
1	2	14	81.8	1003		1.045515	
2	1	14	63.3			1.570299	
3	3	14	56	1976	1488	2.424778	
4	1	14	58.7			2.964765	
5	1	14	69.5			3.983331	
6	2	14	66.7	1545		4.887049	
7	1	14	51.8			5.248941	
8	2	14	77.3	1342		6.153716	
9	3	14	97	1026	1471	6.983954	
10	2	14	91.7	1095		7.634542	
11	1	14	85.8			8.425801	
12	2	14	85.9	1853		9.142203	
13	2	14	50.4	1292		9.680002	
14	3	14	75.3	1072	1929	10.36336	
15	3	14	72.2	1318	1855	10.94328	
16	2	14	94.5	1215		11.79417	

Statistics 6 (ChirpCenter Frequency: 5254.0MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	11	57.7	1764		0.181794	1
1	2	11	83.4	1023		1.255938	
2	2	11	78	1223		2.274614	
3	3	11	83.2	1269	1250	2.762035	
4	1	11	98.4			3.619535	
5	3	11	50.3	1376	1109	4.690584	
6	2	11	95.6	1466		5.994362	
7	1	11	87			6.499277	
8	2	11	76.2	1479		7.146943	
9	3	11	79.8	1226	1104	8.495735	
10	1	11	79.8			9.325076	
11	2	11	62.2	1480		9.986489	
12	1	11	80.1			10.30403	
13	2	11	65.3	1386		11.38168	

Statistics 7 (ChirpCenter Frequency: 5255.0MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	13	95.7	1430		0.916576	1
1	2	13	67.9	1795		1.877967	
2	2	13	55.7	1041		3.495334	
3	2	13	77.4	1951		4.340528	
4	1	13	66.3			5.286937	
5	2	13	77.7	1994		6.955658	
6	3	13	97	1205	1994	7.714323	
7	2	13	87.1	1312		9.471461	
8	2	13	80.7	1138		9.640058	
9	1	13	51.4			11.33497	

Statistics 8 (ChirpCenter Frequency: 5252.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	5	67.1			0.414993	0
1	1	5	84.6			2.109211	
2	3	5	97.3	1658	1533	3.035222	
3	2	5	98.2	1689		4.421271	
4	2	5	99.4	1348		6.224446	
5	3	5	58.8	1153	1618	7.819955	
6	1	5	65.2			8.132874	
7	3	5	71.7	1452	1244	9.660463	
8	1	5	83.1			11.33911	

Statistics 9 (ChirpCenter Frequency: 5254.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	10	87.4	1871	1175	0.35073	1
1	2	10	59.3	1004		1.956084	
2	2	10	84.8	1578		3.509712	
3	2	10	97.7	1301		4.314904	
4	2	10	87	1246		6.579378	
5	1	10	90.6			7.192978	
6	2	10	91.1	1452		8.697504	
7	2	10	79.1	1747		10.41883	
8	2	10	86.2	1904		11.98387	

## Statistics 10 (ChirpCenter Frequency: 5255.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width ( $\mu$ S)	Pulse 1-2 spacing( $\mu$ S)	Pulse 2-3 spacing( $\mu$ S)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	12	79.1	1988		0.510404	1
1	2	12	62.4	1206		1.676129	
2	3	12	53.6	1892	1625	3.266461	
3	2	12	52.3	1242		4.621406	
4	2	12	71.8	1443		5.813596	
5	1	12	82.7			6.374427	
6	2	12	74.5	1811		8.145984	
7	3	12	76.3	1672	1848	8.697198	
8	2	12	64.6	1219		10.22895	
9	2	12	62.7	1542		11.85953	

**Radar Type 5 Case 3 Statistical Performance**

Statistics 1 (ChirpCenter Frequency: 5324.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	14	67	1619	1064	0.498023	1
1	2	14	76.2	1763		0.873263	
2	2	14	65.5	1617		2.013367	
3	3	14	93.4	1799	1392	2.470033	
4	2	14	79.2	1064		2.979511	
5	2	14	84.5	1249		4.126757	
6	2	14	65.8	1276		4.776883	
7	2	14	56.4	1857		5.497293	
8	3	14	98.7	1042	1118	5.779568	
9	3	14	91.3	1111	1193	6.567856	
10	3	14	78.2	1550	1641	7.729648	
11	1	14	82.8			7.861176	
12	2	14	58.5	1837		8.979679	
13	2	14	67.9	1889		9.337881	
14	1	14	78.5			9.993494	
15	3	14	88	1258	1807	10.65715	
16	2	14	97.7	1590		11.71541	

Statistics 2 (ChirpCenter Frequency: 5323.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	17	56	1787		0.504742	1
1	3	17	86.9	1759	1280	1.665325	
2	2	17	57.9	1103		3.804477	
3	1	17	88.9			4.722373	
4	2	17	69.8	1167		6.294987	
5	2	17	85.2	1167		7.191542	
6	1	17	70.5			8.206919	
7	3	17	81	1583	1103	9.792373	
8	1	17	80.3			10.67843	

## Statistics 3 (ChirpCenter Frequency: 5322.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	19	59.5			0.731958	1
1	1	19	51.7			1.911611	
2	1	19	93.9			2.996037	
3	2	19	81.5	1653		4.35596	
4	3	19	70.6	1370	1450	5.259915	
5	3	19	62.3	1351	1089	5.734803	
6	2	19	64.8	1631		6.659458	
7	2	19	82.1	1140		8.582527	
8	3	19	91.8	1507	1709	9.406037	
9	3	19	90.3	1553	1979	10.60934	
10	1	19	53			11.19471	

## Statistics 4 (ChirpCenter Frequency: 5324.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	10	73.7	1945		0.737666	1
1	3	10	90.7	1243	1718	2.516427	
2	1	10	50.7			3.526956	
3	3	10	56.5	1050	1940	4.610392	
4	2	10	83.9	1571		6.411732	
5	2	10	88.7	1452		7.917824	
6	2	10	51.4	1393		8.301204	
7	2	10	78.1	1412		10.51265	
8	1	10	85.8			11.86406	

## Statistics 5 (ChirpCenter Frequency: 5325.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	12	57	1728		0.159812	1
1	1	12	58.1			1.45454	
2	3	12	97.9	1218	1474	1.845157	
3	3	12	87.2	1176	1293	2.613531	
4	1	12	89.4			3.511813	
5	1	12	68.8			4.103556	
6	2	12	82.7	1821		4.810442	
7	1	12	92.4			5.878895	
8	2	12	97.7	1949		6.392538	
9	2	12	60	1738		7.352947	
10	1	12	62.5			7.751687	
11	2	12	84.1	1604		8.968861	
12	2	12	57.2	1036		9.178676	
13	2	12	83.5	1715		10.31119	
14	2	12	65.5	1574		10.89393	
15	3	12	78.1	1500	1373	11.74572	



Statistics 6 (ChirpCenter Frequency: 5326.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	9	88.2			0.20279	1
1	2	9	90.2	1708		1.812162	
2	2	9	72.2	1995		3.134071	
3	1	9	50.8			3.74535	
4	2	9	91.3	1846		5.682546	
5	1	9	80.3			6.576771	
6	1	9	62.1			7.253317	
7	2	9	71.3	1097		8.853842	
8	1	9	86			10.39805	
9	2	9	79.8	1393		10.82413	

Statistics 7 (ChirpCenter Frequency: 5328.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	6	82.7	1324		0.037814	1
1	1	6	63.9			1.427846	
2	3	6	93.3	1680	1114	2.289471	
3	2	6	71	1493		3.412737	
4	2	6	84.8	1579		4.503557	
5	3	6	52.3	1923	1388	5.573075	
6	2	6	56.3	1955		7.310536	
7	3	6	55.6	1102	1853	8.468851	
8	2	6	51.6	1494		9.542107	
9	2	6	97.5	1814		10.26652	
10	2	6	64.4	1830		10.97172	

Statistics 8 (ChirpCenter Frequency: 5326.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	11	90.7	1716		0.570148	1
1	2	11	64.5	1012		1.934258	
2	3	11	73.2	1837	1158	2.694628	
3	1	11	70.1			3.607607	
4	3	11	95.6	1978	1677	5.160677	
5	2	11	58.3	1214		6.118502	
6	2	11	69.8	1322		6.599461	
7	3	11	64.1	1107	1114	7.897498	
8	1	11	50.7			8.744732	
9	3	11	52.7	1366	1238	10.27812	
10	2	11	68.6	1658		11.19753	

Statistics 9 (ChirpCenter Frequency: 5328.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	5	90.3	1955		0.320326	1
1	2	5	67.2	1908		0.714531	
2	2	5	50.8	1177		1.373832	
3	2	5	83.7	1616		2.322204	
4	1	5	63.5			2.982712	
5	2	5	57.2	1998		3.414317	
6	1	5	52.2			4.583894	
7	2	5	59.7	1239		4.990829	
8	2	5	86.6	1662		5.668877	
9	2	5	90.3	1560		6.351746	
10	2	5	54	1507		6.895136	
11	3	5	79.5	1809	1011	7.862765	
12	1	5	81.8			8.063437	
13	1	5	62.7			9.283211	
14	2	5	97.8	1379		9.746984	
15	2	5	96.6	1673		10.55206	
16	1	5	67.4			10.97657	
17	2	5	85.5	1696		11.6646	

Statistics 10 (ChirpCenter Frequency: 5327.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	7	53	1019		0.375169	1
1	3	7	66	1406	1786	0.961203	
2	1	7	95.3			2.089326	
3	1	7	73.8			2.487676	
4	2	7	95.6	1528		3.462394	
5	1	7	51.7			3.832523	
6	2	7	86.1	1519		4.536132	
7	1	7	60.9			5.044428	
8	3	7	81.4	1171	1807	6.330659	
9	1	7	54.1			6.738433	
10	3	7	81.4	1031	1867	7.600573	
11	1	7	54.2			8.458753	
12	2	7	78.2	1476		8.94426	
13	3	7	78.1	1283	1875	9.181006	
14	1	7	84.6			10.25826	
15	1	7	77.4			10.96088	
16	2	7	62.5	1126		11.71602	

**Radar Type 6 Statistical Performance**

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)	Hopping Sequence (MHz)
1	5290	9	1	333	1	5474.0, 5575.0, 5348.0, 5566.0, 5365.0, 5467.0, 5439.0, 5703.0, 5254.0, 5438.0, 5582.0, 5424.0, 5654.0, 5376.0, 5554.0, 5650.0, 5416.0, 5589.0, 5382.0, 5699.0, 5679.0, 5668.0, 5648.0, 5362.0, 5448.0, 5328.0, 5573.0, 5493.0, 5591.0, 5477.0, 5423.0, 5607.0, 5688.0, 5258.0, 5689.0, 5492.0, 5621.0, 5317.0, 5615.0, 5596.0, 5340.0, 5292.0, 5482.0, 5485.0, 5371.0, 5610.0, 5527.0, 5667.0, 5544.0, 5261.0, 5301.0, 5516.0, 5584.0, 5574.0, 5472.0, 5255.0, 5520.0, 5345.0, 5716.0, 5436.0, 5597.0, 5643.0, 5285.0, 5606.0, 5579.0, 5415.0, 5653.0, 5571.0, 5263.0, 5432.0, 5595.0, 5435.0, 5409.0, 5279.0, 5473.0, 5665.0, 5300.0, 5503.0, 5458.0, 5535.0, 5421.0, 5652.0, 5534.0, 5266.0, 5308.0, 5306.0, 5329.0, 5720.0, 5414.0, 5620.0, 5250.0, 5517.0, 5280.0, 5390.0, 5406.0, 5318.0, 5298.0, 5677.0, 5512.0, 5335.0 (number of hits: 20 )
2	5290	9	1	333	1	5513.0, 5519.0, 5338.0, 5305.0, 5570.0, 5520.0, 5409.0, 5432.0, 5604.0, 5386.0, 5454.0, 5253.0, 5713.0, 5405.0, 5284.0, 5447.0, 5569.0, 5510.0, 5533.0, 5586.0, 5503.0, 5640.0, 5428.0, 5527.0, 5655.0, 5437.0, 5722.0, 5629.0, 5635.0, 5518.0, 5715.0, 5377.0, 5307.0, 5596.0, 5574.0, 5678.0, 5661.0, 5269.0, 5262.0, 5331.0, 5481.0, 5504.0, 5427.0, 5340.0, 5666.0, 5355.0, 5371.0, 5349.0, 5671.0, 5455.0, 5252.0, 5611.0, 5451.0, 5553.0, 5282.0, 5475.0, 5557.0, 5514.0, 5394.0, 5515.0, 5690.0, 5502.0, 5415.0, 5263.0, 5345.0, 5546.0, 5360.0, 5273.0, 5489.0, 5314.0, 5267.0, 5679.0, 5677.0, 5473.0, 5642.0, 5490.0, 5295.0, 5285.0, 5461.0, 5337.0, 5303.0, 5516.0, 5643.0, 5414.0, 5547.0, 5315.0, 5492.0, 5603.0, 5717.0, 5641.0, 5281.0, 5483.0, 5289.0, 5471.0, 5462.0, 5606.0, 5403.0, 5341.0, 5662.0, 5402.0 (number of hits: 18 )
3	5290	9	1	333	1	5274.0, 5390.0, 5326.0, 5354.0, 5290.0, 5435.0, 5416.0, 5419.0, 5655.0, 5704.0, 5267.0, 5269.0, 5449.0, 5425.0, 5499.0, 5458.0, 5345.0, 5638.0, 5349.0, 5343.0, 5397.0, 5556.0, 5531.0, 5386.0, 5301.0, 5334.0, 5471.0, 5316.0, 5254.0, 5450.0, 5514.0, 5395.0, 5399.0, 5363.0, 5639.0, 5472.0, 5295.0, 5610.0, 5271.0, 5361.0, 5293.0, 5706.0, 5270.0, 5697.0, 5569.0, 5543.0, 5602.0, 5592.0, 5587.0, 5523.0, 5590.0, 5461.0, 5411.0, 5561.0, 5394.0, 5406.0, 5480.0, 5501.0, 5703.0, 5687.0,

						5443.0, 5504.0, 5524.0, 5256.0, 5621.0, 5392.0, 5351.0, 5664.0, 5368.0, 5658.0, 5336.0, 5620.0, 5541.0, 5631.0, 5508.0, 5468.0, 5520.0, 5294.0, 5292.0, 5396.0, 5594.0, 5709.0, 5682.0, 5604.0, 5585.0, 5491.0, 5333.0, 5486.0, 5314.0, 5453.0, 5619.0, 5335.0, 5418.0, 5289.0, 5340.0, 5600.0, 5358.0, 5357.0, 5441.0, 5665.0 (number of hits: 17)
4	5290	9	1	333	1	5335.0, 5274.0, 5508.0, 5319.0, 5339.0, 5482.0, 5680.0, 5620.0, 5412.0, 5346.0, 5410.0, 5703.0, 5652.0, 5569.0, 5258.0, 5379.0, 5687.0, 5541.0, 5574.0, 5447.0, 5268.0, 5598.0, 5364.0, 5440.0, 5664.0, 5514.0, 5667.0, 5352.0, 5338.0, 5381.0, 5490.0, 5323.0, 5612.0, 5696.0, 5640.0, 5391.0, 5413.0, 5270.0, 5709.0, 5294.0, 5382.0, 5668.0, 5429.0, 5305.0, 5548.0, 5701.0, 5712.0, 5650.0, 5404.0, 5306.0, 5403.0, 5299.0, 5300.0, 5321.0, 5546.0, 5564.0, 5530.0, 5304.0, 5616.0, 5617.0, 5675.0, 5710.0, 5690.0, 5661.0, 5453.0, 5713.0, 5463.0, 5506.0, 5464.0, 5298.0, 5554.0, 5408.0, 5635.0, 5383.0, 5425.0, 5423.0, 5678.0, 5466.0, 5644.0, 5642.0, 5523.0, 5657.0, 5347.0, 5558.0, 5660.0, 5527.0, 5545.0, 5401.0, 5387.0, 5301.0, 5605.0, 5556.0, 5358.0, 5438.0, 5481.0, 5446.0, 5720.0, 5537.0, 5496.0, 5307.0 (number of hits: 16)
5	5290	9	1	333	1	5274.0, 5637.0, 5435.0, 5326.0, 5556.0, 5611.0, 5593.0, 5425.0, 5463.0, 5713.0, 5445.0, 5521.0, 5618.0, 5422.0, 5527.0, 5353.0, 5386.0, 5260.0, 5676.0, 5444.0, 5347.0, 5409.0, 5513.0, 5495.0, 5681.0, 5447.0, 5471.0, 5392.0, 5701.0, 5616.0, 5457.0, 5298.0, 5352.0, 5263.0, 5467.0, 5434.0, 5499.0, 5469.0, 5706.0, 5631.0, 5389.0, 5384.0, 5632.0, 5351.0, 5451.0, 5262.0, 5410.0, 5600.0, 5691.0, 5599.0, 5420.0, 5404.0, 5544.0, 5310.0, 5570.0, 5494.0, 5329.0, 5569.0, 5625.0, 5377.0, 5356.0, 5497.0, 5407.0, 5551.0, 5542.0, 5304.0, 5486.0, 5525.0, 5704.0, 5464.0, 5342.0, 5714.0, 5598.0, 5573.0, 5663.0, 5285.0, 5558.0, 5672.0, 5448.0, 5563.0, 5481.0, 5630.0, 5456.0, 5443.0, 5315.0, 5355.0, 5506.0, 5372.0, 5698.0, 5330.0, 5560.0, 5385.0, 5590.0, 5485.0, 5539.0, 5381.0, 5692.0, 5716.0, 5662.0, 5348.0 (number of hits: 11)
6	5290	9	1	333	1	5584.0, 5451.0, 5407.0, 5453.0, 5622.0, 5683.0, 5354.0, 5362.0, 5555.0, 5492.0, 5531.0, 5588.0, 5286.0, 5475.0, 5571.0, 5421.0, 5525.0, 5574.0, 5271.0, 5389.0, 5443.0, 5388.0, 5623.0, 5283.0, 5547.0, 5609.0, 5669.0, 5423.0, 5280.0, 5538.0, 5577.0, 5401.0, 5587.0, 5665.0, 5326.0, 5658.0, 5446.0, 5705.0, 5284.0, 5641.0,

						5370.0, 5328.0, 5638.0, 5518.0, 5582.0, 5655.0, 5561.0, 5479.0, 5299.0, 5702.0, 5459.0, 5648.0, 5307.0, 5700.0, 5276.0, 5365.0, 5447.0, 5646.0, 5537.0, 5456.0, 5321.0, 5679.0, 5327.0, 5674.0, 5625.0, 5313.0, 5682.0, 5657.0, 5542.0, 5265.0, 5505.0, 5595.0, 5509.0, 5474.0, 5251.0, 5715.0, 5599.0, 5541.0, 5277.0, 5506.0, 5441.0, 5481.0, 5697.0, 5463.0, 5553.0, 5409.0, 5424.0, 5480.0, 5551.0, 5717.0, 5363.0, 5260.0, 5650.0, 5457.0, 5570.0, 5462.0, 5315.0, 5562.0, 5359.0, 5635.0 (number of hits: 18 )
7	5290	9	1	333	1	5525.0, 5258.0, 5608.0, 5405.0, 5678.0, 5332.0, 5289.0, 5295.0, 5705.0, 5600.0, 5286.0, 5416.0, 5635.0, 5667.0, 5306.0, 5724.0, 5262.0, 5364.0, 5559.0, 5505.0, 5634.0, 5368.0, 5518.0, 5261.0, 5580.0, 5250.0, 5671.0, 5703.0, 5329.0, 5395.0, 5455.0, 5408.0, 5623.0, 5397.0, 5430.0, 5716.0, 5452.0, 5394.0, 5318.0, 5427.0, 5566.0, 5454.0, 5707.0, 5574.0, 5652.0, 5314.0, 5598.0, 5354.0, 5595.0, 5714.0, 5360.0, 5433.0, 5567.0, 5370.0, 5563.0, 5590.0, 5683.0, 5587.0, 5519.0, 5540.0, 5340.0, 5435.0, 5473.0, 5407.0, 5331.0, 5521.0, 5498.0, 5471.0, 5480.0, 5271.0, 5476.0, 5694.0, 5425.0, 5506.0, 5422.0, 5348.0, 5467.0, 5335.0, 5528.0, 5636.0, 5579.0, 5496.0, 5320.0, 5543.0, 5384.0, 5333.0, 5317.0, 5272.0, 5624.0, 5325.0, 5391.0, 5537.0, 5702.0, 5541.0, 5293.0, 5350.0, 5472.0, 5488.0, 5611.0, 5440.0 (number of hits: 17 )
8	5290	9	1	333	1	5592.0, 5663.0, 5542.0, 5388.0, 5575.0, 5402.0, 5339.0, 5598.0, 5457.0, 5602.0, 5644.0, 5401.0, 5504.0, 5386.0, 5608.0, 5551.0, 5418.0, 5309.0, 5558.0, 5430.0, 5320.0, 5282.0, 5508.0, 5257.0, 5278.0, 5667.0, 5577.0, 5330.0, 5342.0, 5647.0, 5669.0, 5605.0, 5689.0, 5433.0, 5266.0, 5554.0, 5654.0, 5622.0, 5396.0, 5355.0, 5271.0, 5326.0, 5586.0, 5646.0, 5563.0, 5292.0, 5371.0, 5619.0, 5426.0, 5624.0, 5406.0, 5351.0, 5290.0, 5397.0, 5614.0, 5468.0, 5678.0, 5294.0, 5565.0, 5696.0, 5281.0, 5631.0, 5464.0, 5629.0, 5381.0, 5705.0, 5358.0, 5458.0, 5308.0, 5447.0, 5455.0, 5621.0, 5573.0, 5675.0, 5387.0, 5304.0, 5510.0, 5546.0, 5303.0, 5505.0, 5400.0, 5307.0, 5478.0, 5362.0, 5499.0, 5562.0, 5297.0, 5721.0, 5367.0, 5489.0, 5617.0, 5270.0, 5272.0, 5375.0, 5417.0, 5398.0, 5611.0, 5594.0, 5255.0, 5515.0 (number of hits: 20 )
9	5290	9	1	333	1	5555.0, 5403.0, 5658.0, 5561.0, 5526.0, 5664.0, 5252.0, 5509.0, 5310.0, 5659.0, 5289.0, 5361.0, 5600.0, 5693.0, 5357.0, 5326.0, 5315.0, 5325.0, 5475.0, 5455.0,

						5551.0, 5473.0, 5332.0, 5534.0, 5287.0, 5313.0, 5483.0, 5567.0, 5638.0, 5363.0, 5507.0, 5312.0, 5552.0, 5541.0, 5701.0, 5255.0, 5412.0, 5409.0, 5538.0, 5368.0, 5635.0, 5308.0, 5602.0, 5253.0, 5636.0, 5375.0, 5328.0, 5432.0, 5291.0, 5490.0, 5420.0, 5712.0, 5394.0, 5337.0, 5348.0, 5459.0, 5477.0, 5616.0, 5264.0, 5478.0, 5330.0, 5364.0, 5457.0, 5356.0, 5520.0, 5414.0, 5667.0, 5568.0, 5539.0, 5566.0, 5447.0, 5605.0, 5314.0, 5506.0, 5535.0, 5516.0, 5644.0, 5544.0, 5594.0, 5554.0, 5649.0, 5393.0, 5436.0, 5634.0, 5456.0, 5657.0, 5468.0, 5317.0, 5458.0, 5562.0, 5514.0, 5662.0, 5512.0, 5347.0, 5419.0, 5338.0, 5324.0, 5654.0, 5433.0, 5714.0 (number of hits: 18 )
10	5290	9	1	333	1	5376.0, 5395.0, 5439.0, 5295.0, 5451.0, 5300.0, 5665.0, 5554.0, 5401.0, 5515.0, 5543.0, 5275.0, 5430.0, 5620.0, 5679.0, 5304.0, 5263.0, 5442.0, 5511.0, 5303.0, 5332.0, 5597.0, 5694.0, 5663.0, 5684.0, 5520.0, 5380.0, 5391.0, 5465.0, 5489.0, 5692.0, 5495.0, 5492.0, 5386.0, 5299.0, 5579.0, 5586.0, 5298.0, 5622.0, 5415.0, 5617.0, 5270.0, 5568.0, 5354.0, 5494.0, 5633.0, 5296.0, 5674.0, 5428.0, 5677.0, 5614.0, 5293.0, 5713.0, 5685.0, 5599.0, 5632.0, 5603.0, 5423.0, 5512.0, 5719.0, 5481.0, 5282.0, 5342.0, 5549.0, 5648.0, 5589.0, 5407.0, 5269.0, 5406.0, 5609.0, 5408.0, 5252.0, 5504.0, 5280.0, 5590.0, 5459.0, 5329.0, 5480.0, 5668.0, 5448.0, 5531.0, 5657.0, 5500.0, 5272.0, 5379.0, 5308.0, 5498.0, 5612.0, 5324.0, 5311.0, 5287.0, 5433.0, 5341.0, 5336.0, 5595.0, 5555.0, 5535.0, 5607.0, 5271.0, 5385.0 (number of hits: 22 )
11	5290	9	1	333	1	5401.0, 5334.0, 5597.0, 5512.0, 5434.0, 5254.0, 5269.0, 5578.0, 5400.0, 5427.0, 5364.0, 5598.0, 5319.0, 5451.0, 5293.0, 5576.0, 5572.0, 5394.0, 5486.0, 5479.0, 5468.0, 5624.0, 5620.0, 5323.0, 5676.0, 5467.0, 5311.0, 5391.0, 5613.0, 5665.0, 5379.0, 5696.0, 5531.0, 5524.0, 5308.0, 5365.0, 5582.0, 5264.0, 5355.0, 5397.0, 5714.0, 5350.0, 5295.0, 5327.0, 5498.0, 5622.0, 5279.0, 5255.0, 5260.0, 5413.0, 5648.0, 5651.0, 5482.0, 5656.0, 5546.0, 5420.0, 5263.0, 5466.0, 5588.0, 5294.0, 5366.0, 5590.0, 5386.0, 5336.0, 5587.0, 5250.0, 5529.0, 5361.0, 5405.0, 5628.0, 5389.0, 5591.0, 5640.0, 5431.0, 5360.0, 5432.0, 5436.0, 5619.0, 5642.0, 5532.0, 5677.0, 5518.0, 5337.0, 5496.0, 5647.0, 5342.0, 5404.0, 5429.0, 5688.0, 5251.0, 5682.0, 5505.0, 5527.0, 5560.0, 5663.0, 5331.0, 5552.0, 5276.0, 5669.0, 5526.0 (number of hits: 18 )

12	5290	9	1	333	1	5539.0, 5659.0, 5282.0, 5294.0, 5477.0, 5304.0, 5515.0, 5628.0, 5362.0, 5661.0, 5516.0, 5627.0, 5274.0, 5563.0, 5439.0, 5393.0, 5295.0, 5555.0, 5711.0, 5528.0, 5342.0, 5635.0, 5371.0, 5634.0, 5658.0, 5340.0, 5537.0, 5414.0, 5471.0, 5445.0, 5503.0, 5565.0, 5262.0, 5624.0, 5560.0, 5308.0, 5576.0, 5597.0, 5592.0, 5259.0, 5671.0, 5375.0, 5501.0, 5476.0, 5618.0, 5366.0, 5390.0, 5549.0, 5530.0, 5454.0, 5405.0, 5524.0, 5473.0, 5519.0, 5712.0, 5319.0, 5495.0, 5407.0, 5325.0, 5348.0, 5424.0, 5435.0, 5346.0, 5556.0, 5455.0, 5599.0, 5260.0, 5416.0, 5420.0, 5561.0, 5392.0, 5253.0, 5619.0, 5646.0, 5653.0, 5605.0, 5554.0, 5580.0, 5377.0, 5636.0, 5550.0, 5551.0, 5575.0, 5713.0, 5595.0, 5546.0, 5272.0, 5557.0, 5590.0, 5504.0, 5640.0, 5429.0, 5277.0, 5288.0, 5367.0, 5452.0, 5315.0, 5486.0, 5487.0, 5449.0 (number of hits: 16 )
13	5290	9	1	333	1	5532.0, 5524.0, 5676.0, 5514.0, 5500.0, 5279.0, 5504.0, 5568.0, 5575.0, 5494.0, 5505.0, 5707.0, 5283.0, 5634.0, 5309.0, 5477.0, 5708.0, 5595.0, 5596.0, 5474.0, 5458.0, 5403.0, 5254.0, 5486.0, 5376.0, 5630.0, 5489.0, 5260.0, 5715.0, 5382.0, 5413.0, 5689.0, 5370.0, 5538.0, 5602.0, 5518.0, 5499.0, 5655.0, 5426.0, 5661.0, 5645.0, 5421.0, 5359.0, 5672.0, 5487.0, 5267.0, 5719.0, 5578.0, 5637.0, 5636.0, 5320.0, 5526.0, 5686.0, 5559.0, 5540.0, 5535.0, 5259.0, 5556.0, 5717.0, 5424.0, 5450.0, 5640.0, 5667.0, 5468.0, 5657.0, 5521.0, 5261.0, 5569.0, 5303.0, 5317.0, 5597.0, 5549.0, 5381.0, 5412.0, 5565.0, 5671.0, 5438.0, 5469.0, 5302.0, 5442.0, 5724.0, 5420.0, 5258.0, 5700.0, 5633.0, 5579.0, 5366.0, 5509.0, 5604.0, 5361.0, 5408.0, 5440.0, 5296.0, 5357.0, 5406.0, 5430.0, 5313.0, 5390.0, 5471.0, 5669.0 (number of hits: 15 )
14	5290	9	1	333	1	5623.0, 5541.0, 5465.0, 5621.0, 5358.0, 5719.0, 5297.0, 5677.0, 5506.0, 5293.0, 5622.0, 5671.0, 5422.0, 5529.0, 5681.0, 5531.0, 5458.0, 5512.0, 5645.0, 5328.0, 5490.0, 5424.0, 5441.0, 5298.0, 5399.0, 5266.0, 5590.0, 5587.0, 5542.0, 5614.0, 5312.0, 5279.0, 5344.0, 5315.0, 5369.0, 5305.0, 5676.0, 5262.0, 5553.0, 5617.0, 5350.0, 5485.0, 5557.0, 5495.0, 5582.0, 5425.0, 5288.0, 5591.0, 5494.0, 5523.0, 5648.0, 5377.0, 5554.0, 5534.0, 5712.0, 5333.0, 5352.0, 5525.0, 5371.0, 5314.0, 5596.0, 5316.0, 5608.0, 5610.0, 5694.0, 5498.0, 5713.0, 5528.0, 5459.0, 5718.0, 5597.0, 5391.0, 5264.0, 5274.0, 5457.0, 5653.0, 5411.0, 5484.0, 5366.0, 5514.0, 5550.0, 5255.0, 5685.0, 5271.0, 5577.0,

						5472.0, 5323.0, 5466.0, 5432.0, 5317.0, 5445.0, 5513.0, 5393.0, 5281.0, 5511.0, 5641.0, 5521.0, 5310.0, 5487.0, 5601.0 (number of hits: 21 )
15	5290	9	1	333	1	5258.0, 5440.0, 5379.0, 5359.0, 5592.0, 5578.0, 5664.0, 5609.0, 5618.0, 5616.0, 5615.0, 5666.0, 5661.0, 5334.0, 5468.0, 5386.0, 5338.0, 5357.0, 5452.0, 5353.0, 5623.0, 5634.0, 5495.0, 5439.0, 5303.0, 5591.0, 5662.0, 5708.0, 5659.0, 5385.0, 5460.0, 5421.0, 5450.0, 5675.0, 5308.0, 5704.0, 5410.0, 5510.0, 5695.0, 5711.0, 5520.0, 5313.0, 5599.0, 5637.0, 5654.0, 5345.0, 5459.0, 5444.0, 5471.0, 5683.0, 5573.0, 5287.0, 5538.0, 5697.0, 5656.0, 5524.0, 5554.0, 5431.0, 5514.0, 5668.0, 5253.0, 5331.0, 5500.0, 5703.0, 5483.0, 5583.0, 5404.0, 5324.0, 5424.0, 5375.0, 5496.0, 5698.0, 5343.0, 5707.0, 5449.0, 5542.0, 5317.0, 5690.0, 5408.0, 5453.0, 5307.0, 5356.0, 5617.0, 5586.0, 5306.0, 5561.0, 5407.0, 5257.0, 5614.0, 5425.0, 5297.0, 5532.0, 5479.0, 5625.0, 5593.0, 5282.0, 5721.0, 5399.0, 5552.0, 5270.0 (number of hits: 14 )
16	5290	9	1	333	1	5547.0, 5381.0, 5572.0, 5582.0, 5397.0, 5392.0, 5485.0, 5502.0, 5453.0, 5530.0, 5364.0, 5545.0, 5683.0, 5337.0, 5472.0, 5481.0, 5405.0, 5542.0, 5564.0, 5533.0, 5475.0, 5394.0, 5448.0, 5483.0, 5640.0, 5551.0, 5349.0, 5620.0, 5493.0, 5286.0, 5445.0, 5326.0, 5373.0, 5595.0, 5535.0, 5638.0, 5396.0, 5512.0, 5336.0, 5500.0, 5524.0, 5703.0, 5470.0, 5360.0, 5433.0, 5430.0, 5428.0, 5422.0, 5302.0, 5693.0, 5711.0, 5322.0, 5599.0, 5505.0, 5552.0, 5670.0, 5303.0, 5371.0, 5531.0, 5486.0, 5305.0, 5687.0, 5576.0, 5277.0, 5586.0, 5515.0, 5639.0, 5323.0, 5332.0, 5267.0, 5342.0, 5519.0, 5417.0, 5339.0, 5440.0, 5321.0, 5292.0, 5668.0, 5368.0, 5714.0, 5460.0, 5523.0, 5387.0, 5601.0, 5600.0, 5721.0, 5581.0, 5540.0, 5650.0, 5304.0, 5624.0, 5649.0, 5692.0, 5563.0, 5403.0, 5671.0, 5544.0, 5679.0, 5388.0, 5260.0 (number of hits: 13 )
17	5290	9	1	333	1	5689.0, 5351.0, 5271.0, 5332.0, 5348.0, 5427.0, 5425.0, 5595.0, 5498.0, 5619.0, 5576.0, 5548.0, 5612.0, 5267.0, 5423.0, 5327.0, 5264.0, 5435.0, 5295.0, 5419.0, 5281.0, 5584.0, 5473.0, 5687.0, 5510.0, 5358.0, 5405.0, 5410.0, 5514.0, 5722.0, 5546.0, 5541.0, 5543.0, 5636.0, 5502.0, 5273.0, 5488.0, 5634.0, 5349.0, 5303.0, 5602.0, 5446.0, 5341.0, 5360.0, 5306.0, 5383.0, 5472.0, 5629.0, 5458.0, 5439.0, 5604.0, 5568.0, 5486.0, 5563.0, 5557.0, 5642.0, 5296.0, 5523.0, 5501.0, 5448.0, 5553.0, 5322.0, 5682.0, 5716.0, 5260.0,



						5368.0, 5686.0, 5672.0, 5516.0, 5630.0, 5479.0, 5529.0, 5651.0, 5404.0, 5536.0, 5408.0, 5276.0, 5326.0, 5311.0, 5723.0, 5645.0, 5417.0, 5438.0, 5515.0, 5574.0, 5493.0, 5411.0, 5284.0, 5577.0, 5462.0, 5330.0, 5656.0, 5385.0, 5626.0, 5372.0, 5350.0, 5418.0, 5388.0, 5305.0, 5315.0 (number of hits: 18 )
18	5290	9	1	333	1	5376.0, 5432.0, 5255.0, 5338.0, 5288.0, 5677.0, 5717.0, 5667.0, 5508.0, 5484.0, 5284.0, 5636.0, 5601.0, 5519.0, 5648.0, 5317.0, 5702.0, 5553.0, 5514.0, 5438.0, 5339.0, 5718.0, 5653.0, 5379.0, 5557.0, 5582.0, 5719.0, 5414.0, 5256.0, 5365.0, 5592.0, 5296.0, 5712.0, 5253.0, 5374.0, 5478.0, 5634.0, 5618.0, 5429.0, 5269.0, 5463.0, 5482.0, 5354.0, 5699.0, 5401.0, 5511.0, 5346.0, 5351.0, 5492.0, 5326.0, 5708.0, 5655.0, 5345.0, 5307.0, 5689.0, 5300.0, 5325.0, 5321.0, 5698.0, 5678.0, 5411.0, 5555.0, 5616.0, 5287.0, 5394.0, 5328.0, 5417.0, 5609.0, 5532.0, 5525.0, 5598.0, 5426.0, 5487.0, 5359.0, 5402.0, 5668.0, 5271.0, 5418.0, 5572.0, 5605.0, 5545.0, 5447.0, 5707.0, 5472.0, 5596.0, 5471.0, 5709.0, 5700.0, 5393.0, 5623.0, 5413.0, 5319.0, 5455.0, 5704.0, 5304.0, 5316.0, 5254.0, 5641.0, 5415.0, 5506.0 (number of hits: 20 )
19	5290	9	1	333	1	5575.0, 5535.0, 5546.0, 5322.0, 5620.0, 5334.0, 5359.0, 5423.0, 5489.0, 5560.0, 5577.0, 5710.0, 5305.0, 5655.0, 5328.0, 5656.0, 5342.0, 5701.0, 5421.0, 5276.0, 5632.0, 5529.0, 5436.0, 5717.0, 5627.0, 5265.0, 5446.0, 5588.0, 5636.0, 5682.0, 5476.0, 5352.0, 5394.0, 5395.0, 5572.0, 5630.0, 5510.0, 5695.0, 5387.0, 5470.0, 5521.0, 5614.0, 5450.0, 5646.0, 5299.0, 5484.0, 5409.0, 5589.0, 5363.0, 5371.0, 5348.0, 5561.0, 5700.0, 5488.0, 5609.0, 5604.0, 5619.0, 5312.0, 5629.0, 5456.0, 5369.0, 5467.0, 5613.0, 5379.0, 5565.0, 5612.0, 5338.0, 5590.0, 5452.0, 5503.0, 5252.0, 5442.0, 5530.0, 5515.0, 5280.0, 5644.0, 5537.0, 5462.0, 5460.0, 5256.0, 5719.0, 5500.0, 5548.0, 5713.0, 5672.0, 5495.0, 5602.0, 5316.0, 5671.0, 5483.0, 5474.0, 5378.0, 5663.0, 5412.0, 5368.0, 5415.0, 5389.0, 5540.0, 5420.0, 5413.0 (number of hits: 11 )
20	5290	9	1	333	1	5472.0, 5286.0, 5651.0, 5610.0, 5542.0, 5466.0, 5624.0, 5564.0, 5578.0, 5353.0, 5513.0, 5456.0, 5281.0, 5416.0, 5344.0, 5401.0, 5383.0, 5305.0, 5300.0, 5550.0, 5711.0, 5277.0, 5261.0, 5672.0, 5420.0, 5350.0, 5457.0, 5332.0, 5252.0, 5640.0, 5392.0, 5352.0, 5439.0, 5519.0, 5481.0, 5270.0, 5395.0, 5498.0, 5593.0, 5315.0, 5382.0, 5695.0, 5694.0, 5250.0, 5257.0,

						5348.0, 5543.0, 5684.0, 5490.0, 5571.0, 5442.0, 5329.0, 5464.0, 5544.0, 5301.0, 5387.0, 5514.0, 5628.0, 5264.0, 5285.0, 5363.0, 5371.0, 5320.0, 5645.0, 5414.0, 5402.0, 5494.0, 5643.0, 5340.0, 5497.0, 5480.0, 5253.0, 5559.0, 5330.0, 5715.0, 5485.0, 5708.0, 5648.0, 5716.0, 5507.0, 5533.0, 5488.0, 5501.0, 5673.0, 5526.0, 5510.0, 5603.0, 5310.0, 5717.0, 5661.0, 5682.0, 5502.0, 5634.0, 5613.0, 5582.0, 5368.0, 5669.0, 5388.0, 5470.0, 5659.0 (number of hits: 18 )
21	5290	9	1	333	1	5461.0, 5712.0, 5314.0, 5685.0, 5306.0, 5668.0, 5661.0, 5588.0, 5412.0, 5702.0, 5430.0, 5394.0, 5587.0, 5654.0, 5289.0, 5722.0, 5352.0, 5404.0, 5630.0, 5561.0, 5709.0, 5681.0, 5557.0, 5446.0, 5309.0, 5706.0, 5594.0, 5666.0, 5524.0, 5516.0, 5678.0, 5364.0, 5679.0, 5348.0, 5596.0, 5579.0, 5263.0, 5387.0, 5646.0, 5413.0, 5572.0, 5346.0, 5385.0, 5540.0, 5675.0, 5624.0, 5357.0, 5375.0, 5491.0, 5273.0, 5260.0, 5382.0, 5586.0, 5473.0, 5488.0, 5286.0, 5548.0, 5691.0, 5322.0, 5680.0, 5356.0, 5541.0, 5360.0, 5617.0, 5562.0, 5380.0, 5545.0, 5366.0, 5354.0, 5688.0, 5294.0, 5336.0, 5631.0, 5723.0, 5429.0, 5567.0, 5696.0, 5521.0, 5659.0, 5605.0, 5556.0, 5533.0, 5307.0, 5614.0, 5554.0, 5472.0, 5549.0, 5708.0, 5330.0, 5329.0, 5530.0, 5591.0, 5455.0, 5590.0, 5711.0, 5452.0, 5481.0, 5480.0, 5487.0, 5713.0 (number of hits: 12 )
22	5290	9	1	333	1	5397.0, 5670.0, 5688.0, 5366.0, 5640.0, 5354.0, 5468.0, 5385.0, 5382.0, 5399.0, 5439.0, 5281.0, 5433.0, 5350.0, 5643.0, 5443.0, 5285.0, 5472.0, 5645.0, 5567.0, 5662.0, 5667.0, 5441.0, 5716.0, 5683.0, 5361.0, 5712.0, 5301.0, 5682.0, 5710.0, 5515.0, 5271.0, 5367.0, 5538.0, 5302.0, 5562.0, 5654.0, 5287.0, 5495.0, 5632.0, 5615.0, 5449.0, 5377.0, 5563.0, 5337.0, 5289.0, 5498.0, 5345.0, 5335.0, 5258.0, 5259.0, 5711.0, 5564.0, 5504.0, 5568.0, 5545.0, 5514.0, 5509.0, 5262.0, 5484.0, 5578.0, 5395.0, 5299.0, 5677.0, 5486.0, 5709.0, 5338.0, 5636.0, 5653.0, 5401.0, 5503.0, 5419.0, 5556.0, 5376.0, 5666.0, 5692.0, 5529.0, 5300.0, 5492.0, 5523.0, 5583.0, 5554.0, 5273.0, 5340.0, 5283.0, 5362.0, 5700.0, 5457.0, 5405.0, 5265.0, 5638.0, 5332.0, 5357.0, 5508.0, 5595.0, 5588.0, 5714.0, 5592.0, 5453.0, 5601.0 (number of hits: 15 )
23	5290	9	1	333	1	5605.0, 5596.0, 5410.0, 5586.0, 5713.0, 5253.0, 5512.0, 5693.0, 5514.0, 5714.0, 5471.0, 5641.0, 5684.0, 5629.0, 5665.0, 5407.0, 5358.0, 5355.0, 5694.0, 5481.0, 5580.0, 5654.0, 5619.0, 5380.0, 5494.0,

						5661.0, 5522.0, 5625.0, 5251.0, 5309.0, 5504.0, 5435.0, 5650.0, 5698.0, 5598.0, 5325.0, 5551.0, 5404.0, 5366.0, 5553.0, 5257.0, 5430.0, 5291.0, 5464.0, 5292.0, 5379.0, 5589.0, 5680.0, 5531.0, 5636.0, 5417.0, 5389.0, 5502.0, 5399.0, 5402.0, 5462.0, 5318.0, 5639.0, 5609.0, 5361.0, 5367.0, 5692.0, 5381.0, 5678.0, 5603.0, 5431.0, 5547.0, 5443.0, 5356.0, 5301.0, 5696.0, 5578.0, 5509.0, 5523.0, 5564.0, 5340.0, 5369.0, 5321.0, 5405.0, 5722.0, 5467.0, 5597.0, 5721.0, 5312.0, 5455.0, 5371.0, 5396.0, 5561.0, 5720.0, 5491.0, 5581.0, 5508.0, 5451.0, 5637.0, 5390.0, 5284.0, 5651.0, 5378.0, 5319.0, 5362.0 (number of hits: 13 )
24	5290	9	1	333	1	5636.0, 5417.0, 5574.0, 5480.0, 5598.0, 5334.0, 5562.0, 5380.0, 5344.0, 5399.0, 5328.0, 5306.0, 5423.0, 5259.0, 5436.0, 5315.0, 5690.0, 5470.0, 5538.0, 5348.0, 5303.0, 5485.0, 5676.0, 5333.0, 5378.0, 5657.0, 5358.0, 5390.0, 5325.0, 5568.0, 5297.0, 5395.0, 5710.0, 5321.0, 5499.0, 5573.0, 5665.0, 5591.0, 5287.0, 5702.0, 5699.0, 5609.0, 5624.0, 5629.0, 5502.0, 5722.0, 5365.0, 5403.0, 5661.0, 5641.0, 5559.0, 5567.0, 5682.0, 5304.0, 5552.0, 5374.0, 5483.0, 5512.0, 5484.0, 5692.0, 5524.0, 5277.0, 5720.0, 5703.0, 5637.0, 5396.0, 5281.0, 5405.0, 5531.0, 5381.0, 5494.0, 5461.0, 5604.0, 5296.0, 5444.0, 5455.0, 5518.0, 5555.0, 5493.0, 5354.0, 5640.0, 5282.0, 5614.0, 5419.0, 5453.0, 5551.0, 5429.0, 5497.0, 5431.0, 5363.0, 5621.0, 5351.0, 5677.0, 5688.0, 5594.0, 5646.0, 5535.0, 5505.0, 5693.0, 5270.0 (number of hits: 15 )
25	5290	9	1	333	1	5300.0, 5572.0, 5543.0, 5310.0, 5347.0, 5316.0, 5462.0, 5309.0, 5417.0, 5386.0, 5601.0, 5336.0, 5720.0, 5400.0, 5428.0, 5346.0, 5322.0, 5365.0, 5476.0, 5493.0, 5371.0, 5402.0, 5542.0, 5486.0, 5679.0, 5424.0, 5537.0, 5629.0, 5433.0, 5381.0, 5528.0, 5478.0, 5472.0, 5602.0, 5569.0, 5470.0, 5649.0, 5397.0, 5482.0, 5340.0, 5432.0, 5262.0, 5335.0, 5277.0, 5578.0, 5583.0, 5464.0, 5660.0, 5457.0, 5272.0, 5666.0, 5326.0, 5447.0, 5608.0, 5422.0, 5599.0, 5534.0, 5280.0, 5286.0, 5618.0, 5553.0, 5672.0, 5659.0, 5362.0, 5522.0, 5352.0, 5256.0, 5324.0, 5494.0, 5317.0, 5405.0, 5303.0, 5626.0, 5646.0, 5676.0, 5356.0, 5288.0, 5702.0, 5592.0, 5701.0, 5420.0, 5547.0, 5302.0, 5404.0, 5416.0, 5718.0, 5399.0, 5504.0, 5535.0, 5260.0, 5590.0, 5711.0, 5536.0, 5484.0, 5287.0, 5622.0, 5258.0, 5712.0, 5643.0, 5640.0 (number of hits: 20 )
26	5290	9	1	333	1	5722.0, 5641.0, 5337.0, 5486.0, 5521.0,

						5348.0, 5671.0, 5420.0, 5358.0, 5622.0, 5559.0, 5345.0, 5350.0, 5541.0, 5404.0, 5584.0, 5539.0, 5573.0, 5534.0, 5696.0, 5507.0, 5633.0, 5659.0, 5451.0, 5265.0, 5336.0, 5398.0, 5305.0, 5455.0, 5525.0, 5698.0, 5647.0, 5474.0, 5678.0, 5278.0, 5484.0, 5668.0, 5488.0, 5487.0, 5592.0, 5620.0, 5399.0, 5662.0, 5454.0, 5594.0, 5501.0, 5380.0, 5319.0, 5291.0, 5684.0, 5285.0, 5290.0, 5434.0, 5306.0, 5369.0, 5517.0, 5267.0, 5400.0, 5257.0, 5701.0, 5605.0, 5379.0, 5652.0, 5472.0, 5293.0, 5522.0, 5597.0, 5311.0, 5512.0, 5651.0, 5538.0, 5466.0, 5423.0, 5299.0, 5354.0, 5372.0, 5536.0, 5591.0, 5649.0, 5589.0, 5579.0, 5609.0, 5533.0, 5621.0, 5394.0, 5416.0, 5383.0, 5515.0, 5313.0, 5286.0, 5505.0, 5493.0, 5415.0, 5309.0, 5552.0, 5392.0, 5314.0, 5471.0, 5411.0, 5627.0 (number of hits: 17 )
27	5290	9	1	333	1	5338.0, 5492.0, 5410.0, 5511.0, 5708.0, 5294.0, 5393.0, 5447.0, 5299.0, 5586.0, 5691.0, 5354.0, 5693.0, 5407.0, 5520.0, 5667.0, 5618.0, 5600.0, 5473.0, 5661.0, 5427.0, 5514.0, 5411.0, 5275.0, 5364.0, 5553.0, 5369.0, 5538.0, 5504.0, 5653.0, 5516.0, 5280.0, 5334.0, 5595.0, 5438.0, 5619.0, 5302.0, 5437.0, 5483.0, 5632.0, 5381.0, 5604.0, 5535.0, 5375.0, 5392.0, 5624.0, 5614.0, 5519.0, 5502.0, 5526.0, 5512.0, 5723.0, 5347.0, 5696.0, 5675.0, 5524.0, 5674.0, 5578.0, 5484.0, 5493.0, 5506.0, 5435.0, 5362.0, 5389.0, 5403.0, 5318.0, 5603.0, 5664.0, 5310.0, 5405.0, 5631.0, 5349.0, 5517.0, 5357.0, 5718.0, 5598.0, 5489.0, 5400.0, 5416.0, 5356.0, 5699.0, 5491.0, 5415.0, 5472.0, 5480.0, 5379.0, 5610.0, 5284.0, 5500.0, 5486.0, 5350.0, 5540.0, 5513.0, 5366.0, 5252.0, 5371.0, 5721.0, 5460.0, 5353.0, 5458.0 (number of hits: 9 )
28	5290	9	1	333	1	5443.0, 5557.0, 5431.0, 5496.0, 5330.0, 5562.0, 5644.0, 5566.0, 5433.0, 5430.0, 5279.0, 5600.0, 5721.0, 5548.0, 5413.0, 5259.0, 5645.0, 5475.0, 5314.0, 5453.0, 5263.0, 5684.0, 5274.0, 5619.0, 5434.0, 5526.0, 5336.0, 5332.0, 5442.0, 5364.0, 5399.0, 5400.0, 5346.0, 5500.0, 5353.0, 5681.0, 5660.0, 5337.0, 5319.0, 5636.0, 5435.0, 5423.0, 5357.0, 5387.0, 5476.0, 5708.0, 5390.0, 5666.0, 5635.0, 5492.0, 5436.0, 5295.0, 5427.0, 5322.0, 5447.0, 5712.0, 5624.0, 5383.0, 5426.0, 5603.0, 5613.0, 5417.0, 5296.0, 5563.0, 5661.0, 5517.0, 5256.0, 5287.0, 5484.0, 5656.0, 5694.0, 5416.0, 5386.0, 5598.0, 5326.0, 5529.0, 5591.0, 5338.0, 5687.0, 5595.0, 5253.0, 5511.0, 5597.0, 5652.0, 5333.0, 5544.0, 5286.0, 5701.0, 5525.0, 5277.0,

						5719.0, 5473.0, 5709.0, 5405.0, 5630.0, 5696.0, 5437.0, 5269.0, 5472.0, 5631.0 (number of hits: 16 )
29	5290	9	1	333	1	5723.0, 5597.0, 5620.0, 5563.0, 5587.0, 5603.0, 5602.0, 5641.0, 5305.0, 5411.0, 5567.0, 5639.0, 5334.0, 5633.0, 5569.0, 5284.0, 5331.0, 5277.0, 5646.0, 5590.0, 5309.0, 5255.0, 5605.0, 5715.0, 5611.0, 5390.0, 5495.0, 5349.0, 5716.0, 5638.0, 5600.0, 5688.0, 5524.0, 5463.0, 5425.0, 5719.0, 5370.0, 5300.0, 5540.0, 5489.0, 5644.0, 5668.0, 5618.0, 5507.0, 5531.0, 5630.0, 5364.0, 5275.0, 5446.0, 5310.0, 5252.0, 5429.0, 5477.0, 5570.0, 5303.0, 5661.0, 5538.0, 5381.0, 5378.0, 5593.0, 5421.0, 5488.0, 5701.0, 5615.0, 5614.0, 5653.0, 5468.0, 5631.0, 5420.0, 5678.0, 5565.0, 5610.0, 5330.0, 5352.0, 5532.0, 5388.0, 5490.0, 5301.0, 5577.0, 5296.0, 5443.0, 5473.0, 5351.0, 5657.0, 5706.0, 5566.0, 5670.0, 5250.0, 5645.0, 5316.0, 5687.0, 5274.0, 5343.0, 5663.0, 5677.0, 5561.0, 5711.0, 5298.0, 5528.0, 5367.0 (number of hits: 16 )
30	5290	9	1	333	1	5371.0, 5605.0, 5441.0, 5286.0, 5633.0, 5260.0, 5451.0, 5697.0, 5624.0, 5713.0, 5716.0, 5435.0, 5419.0, 5252.0, 5401.0, 5261.0, 5322.0, 5698.0, 5541.0, 5297.0, 5638.0, 5316.0, 5466.0, 5563.0, 5408.0, 5449.0, 5622.0, 5320.0, 5558.0, 5343.0, 5421.0, 5309.0, 5388.0, 5670.0, 5344.0, 5595.0, 5505.0, 5544.0, 5498.0, 5360.0, 5350.0, 5724.0, 5677.0, 5456.0, 5663.0, 5255.0, 5312.0, 5700.0, 5500.0, 5546.0, 5266.0, 5432.0, 5567.0, 5545.0, 5528.0, 5705.0, 5291.0, 5474.0, 5684.0, 5369.0, 5667.0, 5331.0, 5486.0, 5610.0, 5341.0, 5370.0, 5588.0, 5672.0, 5671.0, 5287.0, 5627.0, 5651.0, 5514.0, 5476.0, 5323.0, 5530.0, 5542.0, 5351.0, 5703.0, 5470.0, 5356.0, 5387.0, 5258.0, 5269.0, 5655.0, 5721.0, 5354.0, 5270.0, 5568.0, 5519.0, 5714.0, 5647.0, 5551.0, 5438.0, 5584.0, 5515.0, 5676.0, 5628.0, 5489.0, 5694.0 (number of hits: 18 )

**40MHz**

<b>Radar Signal Type</b>	<b>Waveform/Trial Number</b>	<b>Detection (%)</b>	<b>Limit (%)</b>	<b>Pass/Fail</b>
<b>Type 1A</b>	15	100%	60%	pass
<b>Type 1B</b>	15	100%	60%	pass
<b>Type 2</b>	30	100%	60%	Pass
<b>Type 3</b>	30	100%	60%	Pass
<b>Type 4</b>	30	93.33 %	60%	Pass
<b>Aggregate(Type1 to 4)</b>	120	98.33%	80%	Pass
<b>Type 5</b>	30	100 %	80%	Pass
<b>Type 6</b>	30	100 %	70%	Pass

Please refer to the following statistical tables:

**5310MHz  
Radar Type 1A Statistical Performance**

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5310	59	1	898	1
2	5310	57	1	938	1
3	5310	63	1	838	1
4	5310	67	1	798	1
5	5310	58	1	918	1
6	5310	95	1	558	1
7	5310	99	1	538	1
8	5310	81	1	658	1
9	5310	76	1	698	1
10	5310	92	1	578	1
11	5310	78	1	678	1
12	5310	86	1	618	1
13	5310	72	1	738	1
14	5310	65	1	818	1
15	5310	89	1	598	1
Detection Percentage: 100 % (>60%)					

**Radar Type 1B Statistical Performance**

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5310	21	1	2612	1
2	5310	96	1	554	1
3	5310	20	1	2724	1
4	5310	85	1	625	1
5	5310	28	1	1890	1
6	5310	19	1	2883	1
7	5310	19	1	2831	1
8	5310	33	1	1622	1
9	5310	28	1	1911	1
10	5310	33	1	1600	1
11	5310	25	1	2113	1
12	5310	23	1	2355	1
13	5310	70	1	754	1
14	5310	91	1	585	1
15	5310	23	1	2335	1
Detection Percentage: 100 % (>60%)					

**Radar Type 2 Statistical Performance**

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5310	24	1.4	178	1
2	5310	28	4.8	162	1
3	5310	29	2.1	176	1
4	5310	29	2.1	159	1
5	5310	27	2.9	158	1
6	5310	25	2.4	172	1
7	5310	23	4.3	187	1
8	5310	26	3.9	172	1
9	5310	26	3.7	200	1
10	5310	29	4.9	156	1
11	5310	28	4.7	214	1
12	5310	23	1.8	229	1
13	5310	23	4.5	170	1
14	5310	24	1.2	176	1
15	5310	29	1.2	228	1
16	5310	23	2.4	176	1
17	5310	23	3.1	191	1
18	5310	23	3.7	172	1
19	5310	25	2.4	156	1
20	5310	27	2	176	1
21	5310	24	3.6	218	1
22	5310	25	3.9	168	1
23	5310	26	1.2	155	1
24	5310	26	3.7	175	1
25	5310	23	1	192	1
26	5310	23	4.9	201	1
27	5310	23	3.4	178	1
28	5310	24	2.3	179	1
29	5310	25	2.3	173	1
30	5310	25	2.6	220	1
<b>Detection Percentage: 100 % (&gt;60%)</b>					



**Radar Type 3 Statistical Performance**

<b>Trial #</b>	<b>Fc (MHz)</b>	<b>Pulse/Burst</b>	<b>Pulse Width (μS)</b>	<b>PRI (μs)</b>	<b>Detection (1:yes; 0:no)</b>
1	5310	18	7.7	333	1
2	5310	16	7.4	465	1
3	5310	18	9.2	262	1
4	5310	18	8.6	320	1
5	5310	17	8.3	470	1
6	5310	18	8.5	448	1
7	5310	16	6.1	478	1
8	5310	17	7.9	205	1
9	5310	17	6.2	293	1
10	5310	16	6.8	462	1
11	5310	18	8.7	395	1
12	5310	17	9.2	324	1
13	5310	16	6.7	254	1
14	5310	18	9	202	1
15	5310	17	9.5	393	1
16	5310	16	8.5	379	1
17	5310	17	7.5	455	1
18	5310	16	9	464	1
19	5310	18	9.9	381	1
20	5310	18	7.5	470	1
21	5310	18	7.7	447	1
22	5310	17	7.5	262	1
23	5310	18	8.9	248	1
24	5310	17	6.8	346	1
25	5310	16	8.5	389	1
26	5310	18	9.9	226	1
27	5310	18	9	372	1
28	5310	18	8.8	400	1
29	5310	16	6.4	220	1
30	5310	18	7.5	316	1
<b>Detection Percentage: 100% (&gt;60%)</b>					

**Radar Type 4 Statistical Performance**

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5310	15	18	475	1
2	5310	16	19.5	438	1
3	5310	16	12.7	383	1
4	5310	15	19.4	482	1
5	5310	15	13.7	334	1
6	5310	13	14.7	226	1
7	5310	15	13.8	386	1
8	5310	16	19.7	354	1
9	5310	15	13.1	315	0
10	5310	12	13	289	1
11	5310	14	14.6	328	1
12	5310	16	12.5	491	1
13	5310	12	13.8	466	1
14	5310	15	18.1	404	1
15	5310	14	17.6	441	1
16	5310	14	19.4	435	0
17	5310	16	17.5	308	1
18	5310	15	15.5	204	1
19	5310	14	19.6	475	1
20	5310	16	17.3	364	1
21	5310	16	14.5	275	1
22	5310	15	13.8	465	1
23	5310	14	17.6	365	1
24	5310	16	11.1	373	1
25	5310	15	16.9	211	1
26	5310	16	11.9	354	1
27	5310	15	12.9	210	1
28	5310	15	16.6	203	1
29	5310	14	13.7	230	1
30	5310	15	17.1	367	1
<b>Detection Percentage: 93.3 % (&gt;60%)</b>					

**Radar Type 5 Case 1 Statistical Performance**

Statistics 1 (ChirpCenter Frequency: 5310.0MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	6	95			0.124156	1
1	1	6	56.8			1.333704	
2	2	6	67.7	1728		1.668434	
3	2	6	89.9	1867		2.679952	
4	2	6	74.1	1024		3.227797	
5	3	6	66.5	1638	1673	4.051073	
6	1	6	83			4.710182	
7	2	6	80.9	1435		5.111104	
8	2	6	99.2	1178		6.218881	
9	2	6	66.4	1642		6.85301	
10	3	6	78.5	1518	1990	7.710926	
11	2	6	92.9	1681		8.371362	
12	3	6	91.8	1950	1282	8.676004	
13	2	6	51.5	1933		9.36077	
14	3	6	80.3	1019	1684	10.34866	
15	2	6	62.7	1602		11.2031	
16	2	6	86.2	1058		11.33407	

Statistics 2 (ChirpCenter Frequency: 5310.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	6	75.5			0.686462	1
1	2	6	75.7	1216		2.078936	
2	2	6	93.1	1011		3.242975	
3	1	6	83.4			3.677667	
4	2	6	65.2	1092		4.641142	
5	1	6	57.9			5.528195	
6	1	6	97.2			6.63671	
7	2	6	65.7	1980		8.356436	
8	2	6	63.2	1596		9.678771	
9	2	6	56.7	1185		10.16547	
10	3	6	95	1557	1878	11.8022	

Statistics 3 (ChirpCenter Frequency: 5310.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	10	83.8			0.682495	1
1	2	10	61.1	1926		1.546003	
2	2	10	58.9	1178		3.139431	
3	3	10	88	1697	1155	4.780737	
4	1	10	88.1			5.93612	
5	1	10	61.8			6.729377	
6	2	10	73	1306		8.013291	
7	1	10	53.3			8.889726	
8	1	10	71.4			9.745004	
9	1	10	64.1			11.59459	

## Statistics 4 (ChirpCenter Frequency: 5310.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	9	91	1496	1681	0.303981	1
1	3	9	57.4	1350	1711	1.212838	
2	2	9	65.8	1308		1.83863	
3	3	9	80.6	1695	1300	2.308082	
4	1	9	77.7			3.142011	
5	1	9	82.8			3.965921	
6	2	9	57.9	1467		4.47475	
7	1	9	59.6			5.353815	
8	3	9	92.9	1312	1110	5.977922	
9	1	9	99.5			6.636884	
10	2	9	67.8	1875		7.153163	
11	1	9	59.3			8.414067	
12	2	9	98.4	1635		8.641058	
13	2	9	78.5	1971		9.187188	
14	2	9	71.9	1745		9.938103	
15	2	9	54.1	1936		11.24772	
16	2	9	57.9	1758		11.81662	

## Statistics 5(ChirpCenter Frequency: 5310.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	13	69.7	1739	1737	0.174365	1
1	2	13	82.7	1293		1.154154	
2	2	13	86.1	1900		2.716918	
3	2	13	90.7	1764		3.40282	
4	2	13	76.6	1447		4.804916	
5	3	13	60.3	1551	1091	5.733878	
6	3	13	94.5	1478	1894	6.674241	
7	1	13	52.2			7.419943	
8	3	13	50.1	1794	1687	8.411904	
9	2	13	60	1014		9.556551	
10	2	13	54.8	1712		10.6247	
11	2	13	81	1798		11.72041	

## Statistics 6 (ChirpCenter Frequency: 5310.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	14	91.4	1802		0.250053	1
1	1	14	67.4			1.153408	
2	2	14	98.4	1503		1.432584	
3	2	14	59.2	1600		2.77905	
4	1	14	96.3			2.939098	
5	2	14	61.7	1542		3.669395	
6	2	14	59.9	1909		4.377292	
7	3	14	80.6	1831	1005	5.554869	
8	2	14	66.9	1422		6.262323	
9	3	14	52.6	1616	1703	6.819455	
10	3	14	62.7	1138	1331	7.235476	
11	2	14	79.2	1132		7.966289	
12	3	14	64.1	1883	1610	8.938151	
13	1	14	67.1			9.203555	
14	3	14	77.1	1201	1186	10.38194	
15	2	14	51.1	1562		10.89424	
16	3	14	65.6	1043	1021	11.62438	

## Statistics 7(ChirpCenter Frequency: 5310.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	14	76.7			0.13067	1
1	2	14	96.9	1588		1.157301	
2	2	14	80.8	1507		1.630224	
3	1	14	79.9			2.182919	
4	2	14	94.2	1300		3.156741	
5	3	14	84.1	1427	1016	4.058801	
6	2	14	60.2	1164		4.586878	
7	3	14	56.4	1798	1883	5.355939	
8	3	14	71.3	1986	1974	5.95105	
9	1	14	92.6			7.039741	
10	1	14	86.6			7.081413	
11	1	14	66.2			7.9825	
12	1	14	82.7			8.707045	
13	3	14	59.5	1195	1704	9.678221	
14	2	14	72.1	1125		9.912462	
15	2	14	89.3	1996		10.88634	
16	2	14	94.4	1145		11.83424	

Statistics 8 (ChirpCenter Frequency: 5310.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	10	59	1929		0.628874	1
1	1	10	61.8			1.222163	
2	1	10	54.4			1.526146	
3	2	10	99.7	1250		2.358864	
4	3	10	65.1	1076	1615	2.855685	
5	2	10	85.7	1462		3.473011	
6	2	10	53.5	1608		4.394267	
7	2	10	80.6	1460		4.711521	
8	2	10	66.5	1826		5.42513	
9	2	10	92.1	1730		6.367654	
10	2	10	71.1	1388		6.706747	
11	2	10	68.5	1891		7.589828	
12	2	10	98.1	1859		8.169895	
13	2	10	54.4	1458		9.304857	
14	3	10	70.4	1806	1835	9.830598	
15	2	10	63.2	1263		10.64582	
16	1	10	97.2			11.00501	
17	2	10	69.3	1925		11.73129	

Statistics 9 (ChirpCenter Frequency: 5310.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	14	59			0.21282	1
1	3	14	86.7	1702	1578	0.770399	
2	1	14	74.2			2.070014	
3	1	14	69.1			2.606243	
4	2	14	77.5	1662		3.531109	
5	2	14	76.6	1408		4.295573	
6	3	14	68.9	1941	1688	4.749371	
7	1	14	81.4			5.505194	
8	2	14	57.1	1494		6.3428	
9	2	14	83.3	1197		7.13318	
10	2	14	83.5	1649		7.637817	
11	1	14	52.2			8.941121	
12	3	14	79.8	1071	1271	9.057564	
13	2	14	62.3	1955		9.939338	
14	2	14	94.3	1688		10.88092	
15	1	14	84.1			11.30976	

## Statistics 10 (ChirpCenter Frequency: 5310.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width ( $\mu$ S)	Pulse 1-2 spacing( $\mu$ S)	Pulse 2-3 spacing( $\mu$ S)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	10	60.4	1516	1218	0.936004	1
1	2	10	88.8	1621		1.685565	
2	2	10	96.2	1959		2.967245	
3	1	10	81.5			5.236019	
4	2	10	89.7	1673		5.440512	
5	1	10	82.3			7.378657	
6	2	10	72.9	1281		8.774076	
7	2	10	74	1091		10.00817	
8	3	10	84.7	1315	1318	11.23839	

**Radar Type 5 Case 2 Statistical Performance**

Statistics 1 (ChirpCenter Frequency: 5292.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	6	85.5			0.454153	1
1	2	6	67	1363		1.15162	
2	3	6	85.4	1383	1384	2.698092	
3	3	6	97.5	1845	1478	3.464676	
4	3	6	70.2	1019	1343	4.040438	
5	2	6	78	1688		5.286528	
6	3	6	90.9	1873	1001	6.236435	
7	1	6	74.5			7.104795	
8	2	6	56.7	1131		7.42758	
9	2	6	94.4	1878		8.946351	
10	2	6	76.4	1315		9.491266	
11	1	6	81.5			10.20736	
12	3	6	94.6	1002	1385	11.90295	

Statistics 2 (ChirpCenter Frequency: 5296.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	16	94.1			0.893645	1
1	2	16	95.1	1542		1.462968	
2	2	16	96.1	1260		2.739473	
3	2	16	99.9	1431		3.587901	
4	2	16	83.7	1680		4.405954	
5	1	16	56.8			6.108669	
6	2	16	61.2	1262		7.183796	
7	2	16	81.9	1089		7.668974	
8	3	16	87.6	1423	1550	9.066023	
9	3	16	82.6	1577	1826	10.4915	
10	1	16	83.4			11.80851	



## Statistics 3 (ChirpCenter Frequency: 5295.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	12	94.6	1521	1544	0.893781	1
1	2	12	60.2	1532		1.991913	
2	2	12	55.8	1498		2.022235	
3	2	12	93.1	1771		3.2618	
4	2	12	84.1	1604		4.442358	
5	1	12	68.7			5.860575	
6	1	12	75			6.60427	
7	2	12	89.3	1953		7.091301	
8	3	12	63.2	1326	1337	8.660492	
9	2	12	98.7	1471		9.951254	
10	2	12	81.4	1608		10.36121	
11	2	12	54.2	1187		11.39184	

## Statistics 4 (ChirpCenter Frequency: 5292.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	6	92.9			0.277581	1
1	1	6	95.6			1.397366	
2	1	6	94.5			2.255955	
3	1	6	98.7			2.659702	
4	1	6	53.9			3.825864	
5	2	6	95.9	1257		4.123421	
6	2	6	81	1172		5.276174	
7	2	6	83.9	1777		5.704137	
8	1	6	64.5			6.737258	
9	2	6	98.2	1760		7.396556	
10	2	6	84.7	1491		8.65864	
11	3	6	52.3	1160	1754	9.584032	
12	2	6	81.8	1205		9.626513	
13	3	6	58.1	1305	1518	10.78447	
14	2	6	66.2	1155		11.74046	

## Statistics 5 (ChirpCenter Frequency: 5296.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	15	85.7	1506		0.47057	1
1	2	15	71.1	1424		1.009294	
2	2	15	60.5	1909		2.032994	
3	2	15	88.5	1586		3.276482	
4	2	15	56.4	1716		4.374411	
5	2	15	73.5	1771		5.860333	
6	3	15	55.3	1438	1015	6.008544	
7	2	15	67.5	1639		7.69434	
8	3	15	69	1838	1747	8.863523	
9	1	15	98.1			9.523345	
10	2	15	71.6	1752		10.90154	
11	1	15	71.1			11.32034	

## Statistics 6 (ChirpCenter Frequency: 5295.0MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	13	77.6	1392		0.590968	1
1	2	13	99	1885		0.9341	
2	1	13	51.4			1.990938	
3	2	13	63.7	1571		3.067938	
4	2	13	55.9	1057		3.251708	
5	3	13	98.1	1546	1517	4.740577	
6	2	13	86.1	1252		5.213926	
7	2	13	51.2	1474		5.6056	
8	1	13	52.2			6.417426	
9	2	13	92.3	1659		7.454921	
10	3	13	80.4	1350	1672	8.205916	
11	2	13	90.9	1114		9.088323	
12	1	13	74.8			10.21265	
13	2	13	100	1653		10.9293	
14	3	13	67.6	1754	1434	11.26156	

Statistics 7 (ChirpCenter Frequency: 5297.0MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	18	78.7	1712	1963	0.046553	1
1	1	18	84.3			0.798297	
2	1	18	76.6			1.91312	
3	3	18	81.3	1482	1371	2.659537	
4	3	18	75.7	1473	1299	3.055465	
5	1	18	99.3			4.208725	
6	3	18	57.4	1656	1722	4.831278	
7	1	18	54.4			5.214644	
8	2	18	64.7	1045		6.163194	
9	1	18	77.1			6.601814	
10	1	18	77.5			7.462194	
11	3	18	58.3	1612	1353	8.055822	
12	2	18	61.7	1896		9.134851	
13	3	18	76.7	1064	1201	9.4322	
14	2	18	61.4	1691		9.971768	
15	2	18	84	1776		10.98735	
16	3	18	85.1	1663	1217	11.98455	

Statistics 8 (ChirpCenter Frequency: 5293.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	7	83.9	1694		0.627667	1
1	2	7	50.5	1244		0.81598	
2	1	7	55.5			1.895902	
3	1	7	78.3			2.500126	
4	2	7	99.9	1327		3.334384	
5	3	7	64.2	1188	1684	4.046702	
6	2	7	81.4	1970		4.837705	
7	3	7	98.5	1407	1312	5.7285	
8	2	7	72.2	1681		6.870059	
9	3	7	96.2	1972	1962	7.42233	
10	2	7	91.1	1373		8.335782	
11	2	7	79.2	1735		9.588225	
12	2	7	69.9	1788		9.787879	
13	2	7	60.4	1544		10.58209	
14	2	7	64.9	1631		11.91509	

## Statistics 9 (ChirpCenter Frequency: 5294.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	10	93.9			1.285561	1
1	2	10	82.2	1895		1.892708	
2	1	10	83.4			3.385153	
3	3	10	70.2	1692	1742	4.189446	
4	2	10	70	1997		6.19012	
5	3	10	60.4	1414	1081	7.220518	
6	1	10	56.2			8.436806	
7	2	10	53.2	1026		10.35196	
8	3	10	68.2	1171	1960	11.29964	

## Statistics 10 (ChirpCenter Frequency: 5297.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	18	85.4	1462		0.573954	1
1	1	18	85.2			1.087335	
2	3	18	98.9	1518	1528	2.947062	
3	3	18	70	1081	1699	3.684526	
4	2	18	84.1	1968		4.895183	
5	2	18	58.3	1574		5.951172	
6	1	18	57.6			6.240906	
7	1	18	57.2			7.013729	
8	2	18	52.7	1370		8.365682	
9	2	18	58.2	1955		9.612034	
10	3	18	76.4	1220	1962	10.96641	
11	2	18	92.5	1942		11.49849	

**Radar Type 5 Case 3 Statistical Performance**

Statistics 1 (ChirpCenter Frequency: 5323.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	17	66.7	1176	1131	0.437561	1
1	1	17	63.5			1.902856	
2	2	17	73.9	1560		2.075	
3	2	17	96.4	1332		3.487722	
4	2	17	78.8	1454		4.926236	
5	1	17	89.1			5.952787	
6	2	17	95.4	1980		6.833431	
7	2	17	63.6	1292		7.246493	
8	2	17	70.7	1121		8.96473	
9	2	17	77.5	1221		9.747719	
10	1	17	75.1			10.41297	
11	1	17	69.4			11.62762	

Statistics 2 (ChirpCenter Frequency: 5327.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	7	96.3	1544		0.162552	1
1	3	7	95.2	1536	1885	2.612581	
2	2	7	65.2	1972		3.317063	
3	2	7	88	1485		4.973976	
4	2	7	86.4	1322		6.389675	
5	2	7	90.2	1466		7.789533	
6	1	7	78.8			9.265437	
7	1	7	65.7			10.16316	
8	2	7	68.1	1209		11.01892	

Statistics 3 (ChirpCenter Frequency: 5327.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	7	57.7			0.774448	1
1	3	7	54.9	1212	1599	2.078098	
2	1	7	69.2			3.51954	
3	2	7	68.2	1856		5.300506	
4	1	7	86			6.521425	
5	1	7	66.9			7.104131	
6	3	7	63.2	1400	1792	9.204034	
7	3	7	92.1	1699	1397	10.05855	
8	2	7	70	1486		11.22876	

## Statistics 4 (ChirpCenter Frequency: 5325.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width ( $\mu$ S)	Pulse 1-2 spacing( $\mu$ S)	Pulse 2-3 spacing( $\mu$ S)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	12	82.8	1201	1934	0.63679	1
1	2	12	82	1580		1.309963	
2	2	12	55.1	1875		2.08738	
3	2	12	74.4	1452		2.68959	
4	2	12	57	1048		3.164153	
5	1	12	65.3			3.942817	
6	1	12	72.6			4.308225	
7	2	12	72.2	1546		5.434303	
8	3	12	79.7	1039	1302	5.99808	
9	1	12	75.8			6.407005	
10	1	12	99.3			7.499399	
11	3	12	89.5	1826	1671	7.997136	
12	3	12	66.8	1275	1014	8.99174	
13	1	12	70.3			9.237468	
14	1	12	72			10.57061	
15	2	12	89.9	1221		10.99122	
16	2	12	60.7	1615		11.89724	

Statistics 5 (ChirpCenter Frequency: 5325.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	13	89.6	1201	1145	0.088986	1
1	3	13	72	1782	1339	0.875128	
2	3	13	74	1996	1784	1.509552	
3	2	13	76.9	1073		2.087724	
4	2	13	61.4	1434		2.464035	
5	2	13	69.4	1901		3.37732	
6	1	13	51.9			4.107602	
7	2	13	70.9	1321		4.559656	
8	3	13	78.6	1576	1344	4.88759	
9	2	13	51	1692		5.925032	
10	3	13	99.2	1773	1722	6.080494	
11	2	13	83.3	1914		6.864239	
12	2	13	93.3	1266		7.405122	
13	2	13	88.8	1786		8.31176	
14	2	13	89.5	1819		8.912155	
15	3	13	90.8	1544	1713	9.58324	
16	2	13	75.9	1179		9.994212	
17	2	13	90.4	1247		10.61882	
18	2	13	60.5	1450		11.39317	
19	2	13	63.9	1863		11.53308	

Statistics 6 (ChirpCenter Frequency: 5327.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	8	69.5	1774	1237	0.105086	1
1	2	8	79	1492		1.058504	
2	3	8	59.4	1753	1008	1.565096	
3	3	8	55.9	1531	1557	2.241259	
4	2	8	65.3	1094		2.605674	
5	1	8	50.6			3.429875	
6	3	8	90.5	1127	1545	4.11098	
7	2	8	84.7	1767		4.390233	
8	3	8	52.9	1883	1590	5.26154	
9	3	8	89.1	1230	1221	5.544279	
10	3	8	79.6	1131	1765	6.033801	
11	3	8	64.4	1473	1840	7.133606	
12	2	8	77.5	1664		7.621209	
13	2	8	75.2	1182		8.13621	
14	2	8	63.4	1919		8.530096	
15	2	8	77.8	1424		9.1533	
16	3	8	70.2	1828	1593	9.648569	
17	1	8	51.8			10.38585	
18	2	8	53	1019		11.11968	
19	2	8	58	1629		11.612	

Statistics 7 (ChirpCenter Frequency: 5326.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	10	56.4	1468		0.408537	1
1	2	10	96.4	1691		2.053941	
2	3	10	68.1	1113	1610	2.569011	
3	3	10	83.6	1650	1852	3.524181	
4	2	10	91.9	1528		4.956222	
5	1	10	95			6.376223	
6	3	10	70.3	1233	1862	7.502384	
7	3	10	55.1	1572	1041	8.602767	
8	2	10	69	1220		8.868953	
9	3	10	92.1	1157	1299	10.69412	
10	2	10	78.8	1642		10.94094	

Statistics 8 (ChirpCenter Frequency: 5323.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	17	92.6	1197		0.576397	1
1	2	17	66.5	1126		1.399223	
2	3	17	71.4	1322	1672	3.100558	
3	1	17	77.1			4.80973	
4	2	17	79.7	1088		5.976463	
5	2	17	67.7	1645		7.3873	
6	2	17	88.7	1108		8.168697	
7	3	17	91.7	1293	1782	9.892825	
8	3	17	50.7	1858	1328	11.7813	

Statistics 9 (ChirpCenter Frequency: 5323.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	17	65.3	1223		0.021162	1
1	3	17	52	1748	1072	0.726452	
2	2	17	70.3	1898		1.624863	
3	3	17	71.3	1281	1919	2.08747	
4	3	17	90.9	1775	1779	3.133202	
5	1	17	57			3.291792	
6	3	17	87.8	1768	1840	4.268783	
7	1	17	63.9			4.750099	
8	2	17	86.9	1676		5.523931	
9	1	17	97			6.293764	
10	2	17	83.1	1820		6.527182	
11	2	17	59.4	1867		7.391635	
12	1	17	81.6			7.921204	
13	2	17	92.2	1631		8.522648	
14	3	17	84.7	1073	1646	8.9964	
15	3	17	74.5	1578	1009	9.830461	
16	2	17	83.8	1929		10.23321	
17	2	17	55	1720		10.84428	
18	1	17	69.9			11.85083	



## Statistics 10 (ChirpCenter Frequency: 5324.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width ( $\mu$ S)	Pulse 1-2 spacing( $\mu$ S)	Pulse 2-3 spacing( $\mu$ S)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	14	98.7	1715		0.06964	1
1	3	14	65	1938	1185	1.799619	
2	1	14	94.9			2.013701	
3	2	14	54.8	1570		3.489344	
4	3	14	60.8	1699	1629	4.458184	
5	2	14	69	1520		4.797522	
6	2	14	70.9	1390		5.669632	
7	2	14	60.4	1165		6.594376	
8	2	14	84.7	1548		7.718312	
9	2	14	98.2	1328		8.996651	
10	1	14	94.3			9.972178	
11	1	14	70.3			10.30534	
12	3	14	93.9	1381	1985	11.95465	

**Radar Type 6 Statistical Performance**

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)	Hopping Sequence (MHz)
1	5310	9	1	333	1	5474.0, 5468.0, 5601.0, 5355.0, 5368.0, 5372.0, 5523.0, 5493.0, 5712.0, 5371.0, 5553.0, 5324.0, 5596.0, 5441.0, 5294.0, 5664.0, 5451.0, 5463.0, 5528.0, 5482.0, 5264.0, 5447.0, 5641.0, 5649.0, 5442.0, 5580.0, 5643.0, 5328.0, 5680.0, 5554.0, 5550.0, 5621.0, 5389.0, 5561.0, 5256.0, 5490.0, 5334.0, 5572.0, 5367.0, 5633.0, 5310.0, 5351.0, 5632.0, 5415.0, 5467.0, 5435.0, 5496.0, 5620.0, 5251.0, 5486.0, 5687.0, 5557.0, 5285.0, 5678.0, 5560.0, 5259.0, 5532.0, 5281.0, 5348.0, 5696.0, 5282.0, 5522.0, 5691.0, 5705.0, 5510.0, 5555.0, 5388.0, 5505.0, 5487.0, 5693.0, 5377.0, 5639.0, 5589.0, 5672.0, 5552.0, 5500.0, 5329.0, 5717.0, 5525.0, 5374.0, 5688.0, 5615.0, 5576.0, 5588.0, 5394.0, 5446.0, 5658.0, 5386.0, 5356.0, 5321.0, 5300.0, 5358.0, 5642.0, 5513.0, 5478.0, 5623.0, 5536.0, 5582.0, 5301.0, 5383.0 (number of hits: 8)
2	5310	9	1	333	1	5430.0, 5612.0, 5585.0, 5683.0, 5641.0, 5347.0, 5377.0, 5691.0, 5579.0, 5367.0, 5677.0, 5649.0, 5686.0, 5406.0, 5603.0, 5536.0, 5695.0, 5508.0, 5415.0, 5694.0, 5471.0, 5360.0, 5664.0, 5516.0, 5624.0, 5550.0, 5483.0, 5322.0, 5311.0, 5489.0, 5492.0, 5331.0, 5389.0, 5696.0, 5693.0, 5359.0, 5439.0, 5487.0, 5341.0, 5425.0, 5383.0, 5484.0, 5366.0, 5288.0, 5631.0, 5314.0, 5700.0, 5623.0, 5511.0, 5583.0, 5566.0, 5420.0, 5647.0, 5541.0, 5530.0, 5388.0, 5449.0, 5379.0, 5361.0, 5261.0, 5438.0, 5357.0, 5308.0, 5529.0, 5355.0, 5464.0, 5375.0, 5386.0, 5384.0, 5549.0, 5551.0, 5620.0, 5644.0, 5371.0, 5498.0, 5278.0, 5503.0, 5630.0, 5263.0, 5353.0, 5488.0, 5615.0, 5274.0, 5535.0, 5499.0, 5657.0, 5707.0, 5699.0, 5653.0, 5668.0, 5496.0, 5581.0, 5656.0, 5512.0, 5548.0, 5532.0, 5309.0, 5362.0, 5593.0, 5319.0 (number of hits: 6)
3	5310	9	1	333	1	5388.0, 5500.0, 5301.0, 5323.0, 5254.0, 5422.0, 5397.0, 5474.0, 5262.0, 5485.0, 5592.0, 5721.0, 5261.0, 5468.0, 5403.0, 5437.0, 5619.0, 5497.0, 5657.0, 5709.0, 5336.0, 5383.0, 5387.0, 5489.0, 5367.0, 5347.0, 5513.0, 5316.0, 5579.0, 5549.0, 5408.0, 5690.0, 5361.0, 5614.0, 5482.0, 5389.0, 5622.0, 5411.0, 5486.0, 5695.0, 5294.0, 5368.0, 5540.0, 5349.0, 5684.0, 5519.0, 5348.0, 5442.0, 5471.0, 5596.0, 5660.0, 5527.0, 5719.0, 5365.0, 5412.0, 5521.0, 5378.0, 5526.0, 5676.0, 5384.0,

						5640.0, 5542.0, 5326.0, 5652.0, 5413.0, 5645.0, 5419.0, 5553.0, 5599.0, 5547.0, 5575.0, 5319.0, 5638.0, 5394.0, 5395.0, 5699.0, 5588.0, 5400.0, 5401.0, 5280.0, 5429.0, 5548.0, 5535.0, 5563.0, 5424.0, 5591.0, 5449.0, 5707.0, 5268.0, 5281.0, 5723.0, 5279.0, 5606.0, 5543.0, 5417.0, 5340.0, 5445.0, 5580.0, 5475.0, 5546.0 (number of hits: 6)
4	5310	9	1	333	1	5685.0, 5722.0, 5692.0, 5300.0, 5256.0, 5665.0, 5630.0, 5333.0, 5371.0, 5522.0, 5587.0, 5347.0, 5579.0, 5257.0, 5427.0, 5580.0, 5499.0, 5682.0, 5570.0, 5367.0, 5423.0, 5460.0, 5647.0, 5633.0, 5430.0, 5389.0, 5606.0, 5650.0, 5466.0, 5611.0, 5526.0, 5402.0, 5544.0, 5618.0, 5295.0, 5324.0, 5664.0, 5484.0, 5542.0, 5490.0, 5519.0, 5275.0, 5462.0, 5534.0, 5264.0, 5632.0, 5345.0, 5674.0, 5271.0, 5576.0, 5547.0, 5255.0, 5581.0, 5380.0, 5457.0, 5406.0, 5385.0, 5537.0, 5319.0, 5706.0, 5525.0, 5377.0, 5390.0, 5346.0, 5639.0, 5282.0, 5458.0, 5475.0, 5456.0, 5642.0, 5583.0, 5589.0, 5436.0, 5250.0, 5680.0, 5334.0, 5362.0, 5320.0, 5557.0, 5413.0, 5358.0, 5363.0, 5524.0, 5564.0, 5429.0, 5500.0, 5539.0, 5721.0, 5602.0, 5378.0, 5306.0, 5410.0, 5532.0, 5717.0, 5625.0, 5397.0, 5654.0, 5715.0, 5360.0, 5624.0 (number of hits: 6)
5	5310	9	1	333	1	5559.0, 5452.0, 5514.0, 5360.0, 5379.0, 5372.0, 5537.0, 5591.0, 5429.0, 5486.0, 5356.0, 5573.0, 5577.0, 5552.0, 5451.0, 5675.0, 5462.0, 5546.0, 5544.0, 5651.0, 5375.0, 5447.0, 5396.0, 5370.0, 5339.0, 5661.0, 5271.0, 5569.0, 5272.0, 5543.0, 5528.0, 5695.0, 5628.0, 5629.0, 5350.0, 5330.0, 5630.0, 5714.0, 5702.0, 5453.0, 5599.0, 5279.0, 5555.0, 5485.0, 5349.0, 5491.0, 5455.0, 5472.0, 5572.0, 5414.0, 5624.0, 5440.0, 5312.0, 5427.0, 5697.0, 5380.0, 5617.0, 5343.0, 5622.0, 5332.0, 5418.0, 5557.0, 5685.0, 5664.0, 5310.0, 5377.0, 5268.0, 5365.0, 5263.0, 5259.0, 5610.0, 5258.0, 5467.0, 5252.0, 5582.0, 5470.0, 5344.0, 5282.0, 5710.0, 5443.0, 5504.0, 5538.0, 5392.0, 5673.0, 5432.0, 5288.0, 5647.0, 5719.0, 5285.0, 5606.0, 5642.0, 5616.0, 5439.0, 5563.0, 5261.0, 5583.0, 5562.0, 5556.0, 5256.0, 5465.0 (number of hits: 2)
6	5310	9	1	333	1	5336.0, 5722.0, 5565.0, 5270.0, 5414.0, 5426.0, 5403.0, 5596.0, 5719.0, 5520.0, 5584.0, 5254.0, 5667.0, 5511.0, 5343.0, 5558.0, 5442.0, 5628.0, 5613.0, 5555.0, 5687.0, 5360.0, 5515.0, 5443.0, 5556.0, 5514.0, 5683.0, 5362.0, 5498.0, 5681.0, 5267.0, 5274.0, 5603.0, 5606.0, 5417.0, 5421.0, 5516.0, 5452.0, 5320.0, 5572.0,

						5256.0, 5355.0, 5319.0, 5686.0, 5377.0, 5649.0, 5704.0, 5640.0, 5376.0, 5288.0, 5566.0, 5448.0, 5271.0, 5715.0, 5505.0, 5430.0, 5560.0, 5370.0, 5627.0, 5650.0, 5404.0, 5413.0, 5549.0, 5385.0, 5435.0, 5366.0, 5660.0, 5299.0, 5679.0, 5291.0, 5306.0, 5702.0, 5304.0, 5478.0, 5632.0, 5279.0, 5644.0, 5576.0, 5432.0, 5626.0, 5287.0, 5293.0, 5388.0, 5431.0, 5444.0, 5258.0, 5583.0, 5658.0, 5467.0, 5619.0, 5703.0, 5353.0, 5358.0, 5580.0, 5277.0, 5720.0, 5480.0, 5415.0, 5330.0, 5600.0 (number of hits: 7)
7	5310	9	1	333	1	5339.0, 5616.0, 5353.0, 5363.0, 5296.0, 5313.0, 5653.0, 5436.0, 5382.0, 5631.0, 5509.0, 5623.0, 5307.0, 5654.0, 5617.0, 5603.0, 5626.0, 5612.0, 5628.0, 5706.0, 5366.0, 5711.0, 5456.0, 5465.0, 5429.0, 5371.0, 5473.0, 5437.0, 5599.0, 5556.0, 5671.0, 5348.0, 5459.0, 5293.0, 5560.0, 5383.0, 5496.0, 5466.0, 5595.0, 5582.0, 5287.0, 5447.0, 5518.0, 5395.0, 5498.0, 5471.0, 5408.0, 5702.0, 5314.0, 5568.0, 5541.0, 5686.0, 5311.0, 5406.0, 5500.0, 5695.0, 5586.0, 5405.0, 5481.0, 5475.0, 5646.0, 5724.0, 5589.0, 5375.0, 5386.0, 5715.0, 5604.0, 5377.0, 5292.0, 5428.0, 5341.0, 5614.0, 5390.0, 5594.0, 5310.0, 5349.0, 5666.0, 5685.0, 5687.0, 5411.0, 5542.0, 5454.0, 5538.0, 5276.0, 5378.0, 5384.0, 5637.0, 5642.0, 5425.0, 5412.0, 5651.0, 5677.0, 5274.0, 5535.0, 5633.0, 5698.0, 5304.0, 5268.0, 5345.0, 5564.0 (number of hits: 9)
8	5310	9	1	333	1	5434.0, 5495.0, 5507.0, 5627.0, 5441.0, 5447.0, 5486.0, 5543.0, 5476.0, 5675.0, 5460.0, 5705.0, 5541.0, 5266.0, 5352.0, 5511.0, 5473.0, 5687.0, 5514.0, 5314.0, 5626.0, 5284.0, 5481.0, 5607.0, 5722.0, 5701.0, 5533.0, 5436.0, 5369.0, 5569.0, 5630.0, 5260.0, 5381.0, 5269.0, 5692.0, 5643.0, 5477.0, 5698.0, 5545.0, 5438.0, 5501.0, 5466.0, 5712.0, 5446.0, 5503.0, 5353.0, 5330.0, 5327.0, 5615.0, 5518.0, 5308.0, 5361.0, 5350.0, 5653.0, 5606.0, 5484.0, 5487.0, 5547.0, 5519.0, 5685.0, 5512.0, 5597.0, 5339.0, 5461.0, 5259.0, 5593.0, 5546.0, 5359.0, 5515.0, 5540.0, 5340.0, 5661.0, 5680.0, 5325.0, 5572.0, 5522.0, 5509.0, 5302.0, 5335.0, 5378.0, 5536.0, 5598.0, 5719.0, 5565.0, 5715.0, 5582.0, 5430.0, 5700.0, 5263.0, 5508.0, 5693.0, 5677.0, 5383.0, 5252.0, 5318.0, 5480.0, 5368.0, 5681.0, 5427.0, 5301.0 (number of hits: 7)
9	5310	9	1	333	1	5723.0, 5418.0, 5616.0, 5328.0, 5357.0, 5531.0, 5695.0, 5541.0, 5508.0, 5585.0, 5586.0, 5532.0, 5534.0, 5331.0, 5526.0, 5518.0, 5410.0, 5668.0, 5720.0, 5635.0,

						5661.0, 5343.0, 5275.0, 5648.0, 5507.0, 5484.0, 5409.0, 5647.0, 5625.0, 5304.0, 5471.0, 5373.0, 5704.0, 5701.0, 5402.0, 5516.0, 5579.0, 5608.0, 5334.0, 5437.0, 5436.0, 5677.0, 5504.0, 5401.0, 5656.0, 5389.0, 5675.0, 5282.0, 5424.0, 5485.0, 5537.0, 5502.0, 5644.0, 5438.0, 5660.0, 5464.0, 5277.0, 5351.0, 5497.0, 5454.0, 5446.0, 5510.0, 5622.0, 5407.0, 5501.0, 5705.0, 5686.0, 5676.0, 5281.0, 5374.0, 5318.0, 5687.0, 5293.0, 5342.0, 5372.0, 5642.0, 5479.0, 5254.0, 5683.0, 5645.0, 5381.0, 5554.0, 5420.0, 5383.0, 5603.0, 5354.0, 5260.0, 5339.0, 5548.0, 5261.0, 5475.0, 5272.0, 5594.0, 5344.0, 5309.0, 5431.0, 5460.0, 5448.0, 5465.0, 5379.0 (number of hits: 5 )
10	5310	9	1	333	1	5332.0, 5702.0, 5381.0, 5503.0, 5654.0, 5648.0, 5516.0, 5427.0, 5629.0, 5595.0, 5397.0, 5712.0, 5356.0, 5602.0, 5511.0, 5512.0, 5568.0, 5374.0, 5340.0, 5256.0, 5353.0, 5264.0, 5265.0, 5250.0, 5428.0, 5295.0, 5429.0, 5346.0, 5682.0, 5443.0, 5492.0, 5615.0, 5599.0, 5479.0, 5510.0, 5396.0, 5341.0, 5562.0, 5386.0, 5453.0, 5653.0, 5594.0, 5275.0, 5399.0, 5253.0, 5350.0, 5534.0, 5262.0, 5291.0, 5608.0, 5600.0, 5481.0, 5478.0, 5524.0, 5302.0, 5482.0, 5707.0, 5535.0, 5347.0, 5414.0, 5696.0, 5587.0, 5563.0, 5417.0, 5306.0, 5423.0, 5645.0, 5688.0, 5708.0, 5464.0, 5282.0, 5327.0, 5271.0, 5662.0, 5674.0, 5321.0, 5343.0, 5498.0, 5283.0, 5499.0, 5312.0, 5415.0, 5618.0, 5544.0, 5277.0, 5460.0, 5385.0, 5717.0, 5552.0, 5491.0, 5494.0, 5584.0, 5420.0, 5357.0, 5292.0, 5606.0, 5593.0, 5721.0, 5657.0, 5509.0 (number of hits: 8 )
11	5310	9	1	333	1	5561.0, 5426.0, 5676.0, 5270.0, 5500.0, 5663.0, 5578.0, 5339.0, 5474.0, 5576.0, 5681.0, 5363.0, 5333.0, 5388.0, 5651.0, 5566.0, 5588.0, 5420.0, 5526.0, 5353.0, 5577.0, 5609.0, 5350.0, 5668.0, 5558.0, 5438.0, 5402.0, 5435.0, 5252.0, 5704.0, 5369.0, 5344.0, 5683.0, 5255.0, 5298.0, 5705.0, 5551.0, 5258.0, 5718.0, 5351.0, 5314.0, 5284.0, 5470.0, 5261.0, 5379.0, 5370.0, 5403.0, 5544.0, 5443.0, 5543.0, 5300.0, 5457.0, 5701.0, 5260.0, 5491.0, 5697.0, 5327.0, 5691.0, 5468.0, 5303.0, 5689.0, 5613.0, 5499.0, 5364.0, 5376.0, 5341.0, 5590.0, 5394.0, 5378.0, 5282.0, 5337.0, 5348.0, 5593.0, 5570.0, 5393.0, 5429.0, 5546.0, 5334.0, 5358.0, 5288.0, 5626.0, 5540.0, 5687.0, 5280.0, 5675.0, 5580.0, 5307.0, 5498.0, 5446.0, 5568.0, 5336.0, 5329.0, 5653.0, 5666.0, 5387.0, 5389.0, 5444.0, 5278.0, 5617.0, 5309.0 (number of hits: 8 )

12	5310	9	1	333	1	5307.0, 5605.0, 5615.0, 5509.0, 5365.0, 5682.0, 5484.0, 5480.0, 5339.0, 5481.0, 5674.0, 5637.0, 5265.0, 5273.0, 5315.0, 5699.0, 5574.0, 5490.0, 5645.0, 5653.0, 5407.0, 5601.0, 5692.0, 5516.0, 5518.0, 5656.0, 5386.0, 5259.0, 5555.0, 5612.0, 5424.0, 5338.0, 5562.0, 5475.0, 5621.0, 5594.0, 5356.0, 5302.0, 5663.0, 5542.0, 5257.0, 5326.0, 5610.0, 5431.0, 5702.0, 5415.0, 5346.0, 5477.0, 5448.0, 5426.0, 5485.0, 5632.0, 5712.0, 5502.0, 5288.0, 5608.0, 5285.0, 5382.0, 5442.0, 5531.0, 5340.0, 5657.0, 5464.0, 5420.0, 5304.0, 5262.0, 5648.0, 5667.0, 5337.0, 5261.0, 5698.0, 5397.0, 5600.0, 5707.0, 5584.0, 5281.0, 5586.0, 5532.0, 5517.0, 5323.0, 5389.0, 5263.0, 5292.0, 5634.0, 5641.0, 5507.0, 5654.0, 5513.0, 5252.0, 5628.0, 5671.0, 5681.0, 5540.0, 5708.0, 5417.0, 5310.0, 5553.0, 5430.0, 5622.0, 5670.0 (number of hits: 8)
13	5310	9	1	333	1	5693.0, 5404.0, 5455.0, 5690.0, 5393.0, 5668.0, 5499.0, 5695.0, 5663.0, 5367.0, 5306.0, 5441.0, 5652.0, 5377.0, 5684.0, 5567.0, 5526.0, 5344.0, 5434.0, 5355.0, 5273.0, 5579.0, 5606.0, 5381.0, 5546.0, 5419.0, 5613.0, 5617.0, 5622.0, 5580.0, 5650.0, 5722.0, 5632.0, 5361.0, 5331.0, 5341.0, 5554.0, 5552.0, 5423.0, 5279.0, 5376.0, 5416.0, 5329.0, 5713.0, 5500.0, 5703.0, 5555.0, 5720.0, 5678.0, 5281.0, 5457.0, 5657.0, 5437.0, 5493.0, 5696.0, 5719.0, 5556.0, 5620.0, 5312.0, 5263.0, 5443.0, 5262.0, 5717.0, 5409.0, 5577.0, 5385.0, 5343.0, 5569.0, 5574.0, 5680.0, 5691.0, 5530.0, 5629.0, 5382.0, 5468.0, 5332.0, 5325.0, 5712.0, 5271.0, 5523.0, 5300.0, 5674.0, 5478.0, 5585.0, 5427.0, 5483.0, 5444.0, 5623.0, 5551.0, 5601.0, 5507.0, 5301.0, 5286.0, 5251.0, 5480.0, 5390.0, 5548.0, 5675.0, 5425.0, 5557.0 (number of hits: 6)
14	5310	9	1	333	1	5448.0, 5647.0, 5679.0, 5391.0, 5331.0, 5489.0, 5575.0, 5472.0, 5474.0, 5369.0, 5592.0, 5316.0, 5553.0, 5437.0, 5422.0, 5436.0, 5560.0, 5495.0, 5376.0, 5484.0, 5360.0, 5601.0, 5388.0, 5661.0, 5604.0, 5269.0, 5539.0, 5478.0, 5719.0, 5619.0, 5655.0, 5622.0, 5305.0, 5329.0, 5699.0, 5696.0, 5324.0, 5610.0, 5588.0, 5680.0, 5373.0, 5293.0, 5624.0, 5366.0, 5517.0, 5625.0, 5262.0, 5681.0, 5427.0, 5576.0, 5528.0, 5334.0, 5403.0, 5556.0, 5260.0, 5542.0, 5449.0, 5310.0, 5632.0, 5468.0, 5353.0, 5567.0, 5258.0, 5584.0, 5587.0, 5634.0, 5720.0, 5590.0, 5431.0, 5558.0, 5306.0, 5565.0, 5358.0, 5270.0, 5709.0, 5254.0, 5261.0, 5611.0, 5515.0, 5259.0, 5342.0, 5549.0, 5682.0, 5405.0, 5548.0,

						5392.0, 5511.0, 5707.0, 5648.0, 5429.0, 5582.0, 5628.0, 5418.0, 5355.0, 5711.0, 5708.0, 5292.0, 5364.0, 5382.0, 5653.0 (number of hits: 8 )
15	5310	9	1	333	1	5446.0, 5572.0, 5465.0, 5481.0, 5492.0, 5635.0, 5593.0, 5273.0, 5595.0, 5658.0, 5619.0, 5707.0, 5266.0, 5723.0, 5617.0, 5421.0, 5656.0, 5420.0, 5342.0, 5642.0, 5637.0, 5311.0, 5506.0, 5600.0, 5624.0, 5482.0, 5252.0, 5253.0, 5673.0, 5588.0, 5315.0, 5308.0, 5689.0, 5666.0, 5548.0, 5471.0, 5433.0, 5444.0, 5613.0, 5551.0, 5363.0, 5297.0, 5447.0, 5550.0, 5300.0, 5442.0, 5584.0, 5351.0, 5687.0, 5519.0, 5439.0, 5591.0, 5671.0, 5514.0, 5392.0, 5533.0, 5683.0, 5724.0, 5587.0, 5670.0, 5422.0, 5383.0, 5386.0, 5509.0, 5408.0, 5505.0, 5263.0, 5317.0, 5660.0, 5511.0, 5406.0, 5717.0, 5350.0, 5464.0, 5625.0, 5316.0, 5524.0, 5417.0, 5270.0, 5264.0, 5712.0, 5355.0, 5500.0, 5659.0, 5320.0, 5615.0, 5319.0, 5483.0, 5521.0, 5677.0, 5516.0, 5498.0, 5628.0, 5390.0, 5411.0, 5679.0, 5634.0, 5669.0, 5648.0, 5423.0 (number of hits: 9 )
16	5310	9	1	333	1	5557.0, 5469.0, 5564.0, 5500.0, 5455.0, 5293.0, 5370.0, 5309.0, 5548.0, 5468.0, 5291.0, 5503.0, 5655.0, 5276.0, 5559.0, 5695.0, 5578.0, 5409.0, 5274.0, 5492.0, 5688.0, 5367.0, 5527.0, 5258.0, 5478.0, 5569.0, 5494.0, 5708.0, 5506.0, 5351.0, 5510.0, 5680.0, 5706.0, 5271.0, 5399.0, 5711.0, 5414.0, 5712.0, 5632.0, 5643.0, 5262.0, 5514.0, 5479.0, 5692.0, 5327.0, 5342.0, 5252.0, 5388.0, 5662.0, 5305.0, 5657.0, 5289.0, 5509.0, 5286.0, 5581.0, 5318.0, 5418.0, 5572.0, 5659.0, 5716.0, 5307.0, 5700.0, 5466.0, 5621.0, 5630.0, 5544.0, 5429.0, 5547.0, 5422.0, 5328.0, 5299.0, 5410.0, 5591.0, 5531.0, 5407.0, 5512.0, 5571.0, 5691.0, 5594.0, 5702.0, 5534.0, 5297.0, 5612.0, 5392.0, 5279.0, 5304.0, 5618.0, 5435.0, 5623.0, 5635.0, 5667.0, 5452.0, 5394.0, 5259.0, 5709.0, 5341.0, 5658.0, 5253.0, 5315.0, 5639.0 (number of hits: 12 )
17	5310	9	1	333	1	5413.0, 5476.0, 5253.0, 5567.0, 5414.0, 5660.0, 5464.0, 5563.0, 5311.0, 5280.0, 5701.0, 5636.0, 5711.0, 5435.0, 5605.0, 5337.0, 5671.0, 5709.0, 5467.0, 5308.0, 5279.0, 5306.0, 5553.0, 5678.0, 5622.0, 5315.0, 5670.0, 5551.0, 5655.0, 5314.0, 5554.0, 5654.0, 5600.0, 5538.0, 5504.0, 5707.0, 5578.0, 5382.0, 5333.0, 5256.0, 5487.0, 5522.0, 5354.0, 5619.0, 5273.0, 5512.0, 5499.0, 5669.0, 5408.0, 5351.0, 5436.0, 5415.0, 5700.0, 5444.0, 5282.0, 5441.0, 5316.0, 5574.0, 5284.0, 5703.0, 5516.0, 5486.0, 5658.0, 5601.0, 5398.0,

						5380.0, 5429.0, 5624.0, 5432.0, 5577.0, 5409.0, 5298.0, 5276.0, 5537.0, 5425.0, 5378.0, 5638.0, 5304.0, 5508.0, 5300.0, 5714.0, 5535.0, 5301.0, 5302.0, 5416.0, 5361.0, 5712.0, 5523.0, 5591.0, 5667.0, 5440.0, 5503.0, 5299.0, 5694.0, 5371.0, 5506.0, 5484.0, 5297.0, 5478.0, 5675.0 (number of hits: 13 )
18	5310	9	1	333	1	5706.0, 5260.0, 5560.0, 5462.0, 5437.0, 5715.0, 5682.0, 5709.0, 5442.0, 5522.0, 5511.0, 5455.0, 5556.0, 5343.0, 5467.0, 5705.0, 5576.0, 5528.0, 5469.0, 5711.0, 5645.0, 5529.0, 5486.0, 5548.0, 5648.0, 5595.0, 5605.0, 5383.0, 5597.0, 5331.0, 5592.0, 5265.0, 5432.0, 5485.0, 5692.0, 5292.0, 5311.0, 5506.0, 5530.0, 5565.0, 5362.0, 5710.0, 5673.0, 5591.0, 5377.0, 5545.0, 5263.0, 5669.0, 5433.0, 5696.0, 5723.0, 5618.0, 5341.0, 5569.0, 5400.0, 5665.0, 5445.0, 5519.0, 5703.0, 5366.0, 5702.0, 5252.0, 5652.0, 5658.0, 5306.0, 5454.0, 5622.0, 5421.0, 5721.0, 5523.0, 5385.0, 5610.0, 5593.0, 5484.0, 5551.0, 5374.0, 5358.0, 5619.0, 5316.0, 5689.0, 5427.0, 5604.0, 5481.0, 5516.0, 5600.0, 5398.0, 5589.0, 5256.0, 5279.0, 5626.0, 5625.0, 5351.0, 5656.0, 5406.0, 5524.0, 5333.0, 5570.0, 5489.0, 5507.0, 5322.0 (number of hits: 5 )
19	5310	9	1	333	1	5710.0, 5297.0, 5383.0, 5499.0, 5688.0, 5475.0, 5711.0, 5392.0, 5419.0, 5278.0, 5337.0, 5387.0, 5330.0, 5549.0, 5647.0, 5658.0, 5558.0, 5302.0, 5299.0, 5423.0, 5570.0, 5464.0, 5493.0, 5561.0, 5291.0, 5714.0, 5324.0, 5368.0, 5342.0, 5432.0, 5571.0, 5321.0, 5617.0, 5312.0, 5552.0, 5448.0, 5367.0, 5440.0, 5430.0, 5280.0, 5305.0, 5516.0, 5332.0, 5420.0, 5301.0, 5530.0, 5450.0, 5262.0, 5388.0, 5521.0, 5686.0, 5504.0, 5574.0, 5689.0, 5391.0, 5303.0, 5577.0, 5691.0, 5517.0, 5453.0, 5613.0, 5620.0, 5586.0, 5486.0, 5497.0, 5567.0, 5398.0, 5375.0, 5316.0, 5649.0, 5338.0, 5294.0, 5511.0, 5673.0, 5671.0, 5573.0, 5667.0, 5372.0, 5292.0, 5723.0, 5331.0, 5709.0, 5572.0, 5385.0, 5713.0, 5484.0, 5509.0, 5474.0, 5469.0, 5353.0, 5626.0, 5442.0, 5545.0, 5350.0, 5660.0, 5576.0, 5501.0, 5318.0, 5358.0, 5721.0 (number of hits: 14 )
20	5310	9	1	333	1	5613.0, 5331.0, 5707.0, 5481.0, 5696.0, 5489.0, 5520.0, 5706.0, 5541.0, 5589.0, 5669.0, 5639.0, 5553.0, 5595.0, 5494.0, 5257.0, 5646.0, 5548.0, 5428.0, 5340.0, 5476.0, 5306.0, 5465.0, 5686.0, 5637.0, 5517.0, 5577.0, 5616.0, 5291.0, 5389.0, 5270.0, 5452.0, 5574.0, 5672.0, 5372.0, 5655.0, 5471.0, 5410.0, 5671.0, 5562.0, 5715.0, 5544.0, 5492.0, 5480.0, 5587.0,



						5413.0, 5260.0, 5342.0, 5332.0, 5580.0, 5571.0, 5435.0, 5550.0, 5426.0, 5647.0, 5496.0, 5434.0, 5300.0, 5373.0, 5427.0, 5346.0, 5488.0, 5633.0, 5430.0, 5326.0, 5529.0, 5482.0, 5600.0, 5398.0, 5290.0, 5542.0, 5378.0, 5559.0, 5612.0, 5679.0, 5657.0, 5472.0, 5296.0, 5536.0, 5576.0, 5697.0, 5419.0, 5708.0, 5298.0, 5514.0, 5510.0, 5337.0, 5424.0, 5318.0, 5284.0, 5317.0, 5714.0, 5676.0, 5723.0, 5565.0, 5660.0, 5418.0, 5320.0, 5294.0, 5442.0 (number of hits: 11)
21	5310	9	1	333	1	5590.0, 5723.0, 5402.0, 5512.0, 5587.0, 5602.0, 5537.0, 5699.0, 5634.0, 5303.0, 5412.0, 5278.0, 5651.0, 5293.0, 5553.0, 5444.0, 5716.0, 5631.0, 5287.0, 5311.0, 5251.0, 5434.0, 5394.0, 5543.0, 5439.0, 5260.0, 5408.0, 5652.0, 5453.0, 5641.0, 5417.0, 5670.0, 5309.0, 5696.0, 5676.0, 5348.0, 5357.0, 5285.0, 5253.0, 5376.0, 5659.0, 5566.0, 5389.0, 5614.0, 5540.0, 5254.0, 5648.0, 5399.0, 5616.0, 5520.0, 5316.0, 5328.0, 5421.0, 5274.0, 5271.0, 5437.0, 5536.0, 5420.0, 5622.0, 5428.0, 5628.0, 5356.0, 5442.0, 5297.0, 5593.0, 5318.0, 5403.0, 5687.0, 5542.0, 5669.0, 5482.0, 5487.0, 5660.0, 5448.0, 5571.0, 5572.0, 5589.0, 5711.0, 5350.0, 5706.0, 5671.0, 5306.0, 5606.0, 5485.0, 5263.0, 5449.0, 5518.0, 5451.0, 5541.0, 5701.0, 5656.0, 5603.0, 5630.0, 5276.0, 5388.0, 5686.0, 5653.0, 5580.0, 5675.0, 5470.0 (number of hits: 9)
22	5310	9	1	333	1	5510.0, 5720.0, 5438.0, 5384.0, 5283.0, 5329.0, 5497.0, 5364.0, 5593.0, 5494.0, 5716.0, 5702.0, 5377.0, 5700.0, 5375.0, 5498.0, 5722.0, 5580.0, 5533.0, 5267.0, 5316.0, 5365.0, 5505.0, 5628.0, 5606.0, 5262.0, 5461.0, 5535.0, 5429.0, 5554.0, 5551.0, 5271.0, 5584.0, 5447.0, 5519.0, 5613.0, 5309.0, 5295.0, 5468.0, 5399.0, 5524.0, 5545.0, 5328.0, 5632.0, 5422.0, 5443.0, 5320.0, 5559.0, 5568.0, 5583.0, 5428.0, 5570.0, 5281.0, 5514.0, 5421.0, 5311.0, 5352.0, 5663.0, 5278.0, 5359.0, 5581.0, 5472.0, 5388.0, 5393.0, 5483.0, 5511.0, 5602.0, 5379.0, 5532.0, 5588.0, 5558.0, 5455.0, 5534.0, 5592.0, 5612.0, 5376.0, 5585.0, 5276.0, 5373.0, 5698.0, 5409.0, 5595.0, 5701.0, 5347.0, 5450.0, 5566.0, 5397.0, 5482.0, 5645.0, 5266.0, 5284.0, 5624.0, 5542.0, 5396.0, 5622.0, 5287.0, 5719.0, 5378.0, 5610.0, 5678.0 (number of hits: 7)
23	5310	9	1	333	1	5481.0, 5448.0, 5283.0, 5627.0, 5640.0, 5265.0, 5352.0, 5585.0, 5675.0, 5398.0, 5715.0, 5679.0, 5362.0, 5512.0, 5689.0, 5452.0, 5625.0, 5519.0, 5478.0, 5554.0, 5723.0, 5262.0, 5326.0, 5657.0, 5614.0,

						5536.0, 5412.0, 5319.0, 5288.0, 5546.0, 5663.0, 5581.0, 5424.0, 5525.0, 5351.0, 5543.0, 5346.0, 5633.0, 5511.0, 5380.0, 5277.0, 5620.0, 5444.0, 5415.0, 5574.0, 5558.0, 5523.0, 5691.0, 5718.0, 5462.0, 5648.0, 5344.0, 5515.0, 5497.0, 5651.0, 5458.0, 5616.0, 5330.0, 5698.0, 5381.0, 5419.0, 5298.0, 5664.0, 5429.0, 5714.0, 5417.0, 5680.0, 5255.0, 5434.0, 5396.0, 5528.0, 5713.0, 5423.0, 5619.0, 5274.0, 5621.0, 5401.0, 5594.0, 5504.0, 5309.0, 5500.0, 5364.0, 5268.0, 5315.0, 5537.0, 5357.0, 5296.0, 5494.0, 5539.0, 5358.0, 5392.0, 5608.0, 5376.0, 5324.0, 5337.0, 5301.0, 5534.0, 5615.0, 5529.0, 5471.0 (number of hits: 8)
24	5310	9	1	333	1	5456.0, 5387.0, 5567.0, 5441.0, 5611.0, 5282.0, 5619.0, 5446.0, 5430.0, 5256.0, 5484.0, 5346.0, 5437.0, 5391.0, 5681.0, 5622.0, 5448.0, 5278.0, 5305.0, 5527.0, 5450.0, 5427.0, 5615.0, 5326.0, 5302.0, 5561.0, 5385.0, 5614.0, 5472.0, 5694.0, 5471.0, 5647.0, 5321.0, 5626.0, 5665.0, 5350.0, 5566.0, 5695.0, 5338.0, 5671.0, 5297.0, 5707.0, 5540.0, 5666.0, 5684.0, 5491.0, 5600.0, 5701.0, 5539.0, 5268.0, 5608.0, 5371.0, 5592.0, 5403.0, 5315.0, 5551.0, 5574.0, 5697.0, 5365.0, 5498.0, 5675.0, 5654.0, 5578.0, 5570.0, 5461.0, 5360.0, 5311.0, 5679.0, 5487.0, 5469.0, 5373.0, 5451.0, 5353.0, 5560.0, 5601.0, 5507.0, 5677.0, 5431.0, 5577.0, 5715.0, 5362.0, 5367.0, 5322.0, 5400.0, 5552.0, 5383.0, 5419.0, 5462.0, 5704.0, 5541.0, 5465.0, 5379.0, 5528.0, 5265.0, 5433.0, 5550.0, 5656.0, 5314.0, 5304.0, 5525.0 (number of hits: 10)
25	5310	9	1	333	1	5489.0, 5313.0, 5325.0, 5327.0, 5511.0, 5340.0, 5574.0, 5681.0, 5280.0, 5596.0, 5619.0, 5530.0, 5670.0, 5560.0, 5468.0, 5636.0, 5544.0, 5693.0, 5614.0, 5367.0, 5485.0, 5517.0, 5620.0, 5314.0, 5669.0, 5278.0, 5409.0, 5627.0, 5611.0, 5501.0, 5399.0, 5646.0, 5576.0, 5587.0, 5566.0, 5565.0, 5584.0, 5600.0, 5293.0, 5380.0, 5330.0, 5604.0, 5525.0, 5306.0, 5376.0, 5331.0, 5597.0, 5684.0, 5536.0, 5332.0, 5507.0, 5588.0, 5504.0, 5423.0, 5311.0, 5382.0, 5711.0, 5291.0, 5446.0, 5336.0, 5403.0, 5455.0, 5372.0, 5414.0, 5406.0, 5699.0, 5260.0, 5363.0, 5580.0, 5310.0, 5542.0, 5396.0, 5490.0, 5641.0, 5567.0, 5319.0, 5253.0, 5270.0, 5692.0, 5268.0, 5514.0, 5720.0, 5434.0, 5609.0, 5269.0, 5387.0, 5655.0, 5361.0, 5665.0, 5552.0, 5394.0, 5648.0, 5487.0, 5628.0, 5445.0, 5477.0, 5472.0, 5595.0, 5643.0, 5263.0 (number of hits: 10)
26	5310	9	1	333	1	5598.0, 5605.0, 5702.0, 5461.0, 5431.0,

						5653.0, 5660.0, 5657.0, 5622.0, 5710.0, 5703.0, 5720.0, 5413.0, 5715.0, 5476.0, 5529.0, 5532.0, 5635.0, 5688.0, 5555.0, 5274.0, 5311.0, 5418.0, 5615.0, 5302.0, 5687.0, 5505.0, 5508.0, 5574.0, 5308.0, 5271.0, 5695.0, 5558.0, 5340.0, 5332.0, 5356.0, 5342.0, 5641.0, 5370.0, 5519.0, 5654.0, 5292.0, 5590.0, 5319.0, 5464.0, 5267.0, 5344.0, 5696.0, 5444.0, 5681.0, 5484.0, 5457.0, 5320.0, 5556.0, 5683.0, 5691.0, 5573.0, 5471.0, 5629.0, 5279.0, 5545.0, 5706.0, 5614.0, 5539.0, 5643.0, 5402.0, 5412.0, 5482.0, 5451.0, 5273.0, 5406.0, 5362.0, 5398.0, 5578.0, 5307.0, 5685.0, 5448.0, 5317.0, 5399.0, 5294.0, 5531.0, 5387.0, 5316.0, 5287.0, 5475.0, 5707.0, 5434.0, 5463.0, 5377.0, 5420.0, 5502.0, 5419.0, 5501.0, 5410.0, 5321.0, 5521.0, 5673.0, 5494.0, 5284.0, 5609.0 (number of hits: 11 )
27	5310	9	1	333	1	5426.0, 5405.0, 5615.0, 5301.0, 5321.0, 5336.0, 5310.0, 5640.0, 5470.0, 5559.0, 5400.0, 5590.0, 5593.0, 5489.0, 5359.0, 5513.0, 5494.0, 5575.0, 5616.0, 5515.0, 5511.0, 5482.0, 5346.0, 5702.0, 5318.0, 5512.0, 5699.0, 5444.0, 5608.0, 5483.0, 5295.0, 5473.0, 5480.0, 5631.0, 5684.0, 5722.0, 5495.0, 5700.0, 5621.0, 5276.0, 5322.0, 5574.0, 5425.0, 5315.0, 5280.0, 5678.0, 5538.0, 5553.0, 5352.0, 5449.0, 5632.0, 5536.0, 5651.0, 5506.0, 5641.0, 5579.0, 5719.0, 5422.0, 5573.0, 5456.0, 5389.0, 5486.0, 5466.0, 5355.0, 5391.0, 5712.0, 5655.0, 5659.0, 5563.0, 5509.0, 5467.0, 5660.0, 5514.0, 5363.0, 5550.0, 5662.0, 5402.0, 5368.0, 5572.0, 5602.0, 5384.0, 5503.0, 5701.0, 5625.0, 5592.0, 5499.0, 5530.0, 5335.0, 5396.0, 5395.0, 5472.0, 5704.0, 5580.0, 5324.0, 5257.0, 5541.0, 5385.0, 5334.0, 5252.0, 5351.0 (number of hits: 8 )
28	5310	9	1	333	1	5373.0, 5678.0, 5426.0, 5472.0, 5314.0, 5560.0, 5724.0, 5535.0, 5607.0, 5458.0, 5423.0, 5711.0, 5364.0, 5661.0, 5381.0, 5370.0, 5722.0, 5290.0, 5569.0, 5484.0, 5260.0, 5379.0, 5591.0, 5402.0, 5630.0, 5363.0, 5488.0, 5641.0, 5392.0, 5476.0, 5313.0, 5478.0, 5561.0, 5547.0, 5632.0, 5301.0, 5714.0, 5640.0, 5439.0, 5321.0, 5365.0, 5644.0, 5590.0, 5718.0, 5312.0, 5523.0, 5698.0, 5279.0, 5282.0, 5530.0, 5552.0, 5583.0, 5493.0, 5512.0, 5473.0, 5419.0, 5509.0, 5723.0, 5253.0, 5425.0, 5532.0, 5685.0, 5683.0, 5369.0, 5405.0, 5461.0, 5325.0, 5340.0, 5638.0, 5390.0, 5315.0, 5322.0, 5603.0, 5358.0, 5436.0, 5688.0, 5525.0, 5349.0, 5374.0, 5634.0, 5278.0, 5713.0, 5489.0, 5357.0, 5507.0, 5610.0, 5604.0, 5337.0, 5716.0, 5701.0,

						5645.0, 5408.0, 5430.0, 5515.0, 5624.0, 5501.0, 5584.0, 5605.0, 5416.0, 5263.0 (number of hits: 9)
29	5310	9	1	333	1	5577.0, 5489.0, 5605.0, 5335.0, 5296.0, 5476.0, 5611.0, 5719.0, 5568.0, 5431.0, 5669.0, 5262.0, 5537.0, 5321.0, 5493.0, 5663.0, 5303.0, 5385.0, 5509.0, 5618.0, 5608.0, 5458.0, 5633.0, 5572.0, 5451.0, 5529.0, 5688.0, 5607.0, 5477.0, 5398.0, 5447.0, 5500.0, 5301.0, 5479.0, 5673.0, 5436.0, 5528.0, 5612.0, 5503.0, 5311.0, 5364.0, 5490.0, 5320.0, 5524.0, 5678.0, 5412.0, 5657.0, 5440.0, 5300.0, 5286.0, 5628.0, 5287.0, 5645.0, 5492.0, 5548.0, 5291.0, 5462.0, 5355.0, 5289.0, 5258.0, 5441.0, 5588.0, 5304.0, 5635.0, 5494.0, 5266.0, 5337.0, 5267.0, 5260.0, 5386.0, 5421.0, 5341.0, 5624.0, 5507.0, 5351.0, 5356.0, 5420.0, 5392.0, 5558.0, 5644.0, 5328.0, 5652.0, 5521.0, 5339.0, 5536.0, 5692.0, 5713.0, 5556.0, 5574.0, 5662.0, 5668.0, 5409.0, 5510.0, 5604.0, 5639.0, 5393.0, 5402.0, 5488.0, 5468.0, 5496.0 (number of hits: 10)
30	5310	9	1	333	1	5583.0, 5636.0, 5592.0, 5345.0, 5562.0, 5659.0, 5336.0, 5278.0, 5329.0, 5316.0, 5262.0, 5293.0, 5392.0, 5468.0, 5502.0, 5464.0, 5300.0, 5654.0, 5553.0, 5613.0, 5273.0, 5532.0, 5400.0, 5551.0, 5436.0, 5616.0, 5459.0, 5649.0, 5590.0, 5408.0, 5420.0, 5364.0, 5585.0, 5281.0, 5568.0, 5518.0, 5496.0, 5515.0, 5689.0, 5272.0, 5438.0, 5713.0, 5697.0, 5520.0, 5339.0, 5380.0, 5324.0, 5320.0, 5377.0, 5544.0, 5266.0, 5680.0, 5290.0, 5619.0, 5447.0, 5672.0, 5621.0, 5344.0, 5285.0, 5602.0, 5530.0, 5540.0, 5335.0, 5703.0, 5269.0, 5581.0, 5554.0, 5455.0, 5539.0, 5576.0, 5270.0, 5490.0, 5491.0, 5561.0, 5712.0, 5635.0, 5714.0, 5677.0, 5274.0, 5291.0, 5451.0, 5595.0, 5382.0, 5298.0, 5646.0, 5446.0, 5668.0, 5410.0, 5342.0, 5306.0, 5432.0, 5567.0, 5556.0, 5474.0, 5563.0, 5534.0, 5528.0, 5356.0, 5517.0, 5648.0 (number of hits: 10)

**20MHz**

<b>Radar SignalType</b>	<b>Waveform/Trial Number</b>	<b>Detection (%)</b>	<b>Limit (%)</b>	<b>Pass/Fail</b>
<b>Type 1A</b>	15	100%	60%	pass
<b>Type 1B</b>	15	100%	60%	pass
<b>Type 2</b>	30	100%	60%	Pass
<b>Type 3</b>	30	100%	60%	Pass
<b>Type 4</b>	30	100%	60%	Pass
<b>Aggregate(Type1 to 4)</b>	120	100%	80%	Pass
<b>Type 5</b>	30	100 %	80%	Pass
<b>Type 6</b>	30	100 %	70%	Pass

Please refer to the following statistical tables:

**5320MHz  
Radar Type 1A Statistical Performance**

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5320	95	1	558	1
2	5320	74	1	718	1
3	5320	86	1	618	1
4	5320	61	1	878	1
5	5320	58	1	918	1
6	5320	99	1	538	1
7	5320	62	1	858	1
8	5320	59	1	898	1
9	5320	57	1	938	1
10	5320	83	1	638	1
11	5320	76	1	698	1
12	5320	68	1	778	1
13	5320	78	1	678	1
14	5320	92	1	578	1
15	5320	63	1	838	1
Detection Percentage:100 % (>60%)					

**Radar Type 1B Statistical Performance**

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5320	48	1	1104	1
2	5320	43	1	1235	1
3	5320	44	1	1200	1
4	5320	28	1	1886	1
5	5320	23	1	2374	1
6	5320	24	1	2263	1
7	5320	23	1	2368	1
8	5320	27	1	2010	1
9	5320	33	1	1621	1
10	5320	32	1	1653	1
11	5320	25	1	2180	1
12	5320	89	1	599	1
13	5320	25	1	2179	1
14	5320	28	1	1947	1
15	5320	64	1	832	1
Detection Percentage: 100 % (>60%)					

**Radar Type 2 Statistical Performance**

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5320	25	4	213	1
2	5320	28	4	163	1
3	5320	29	3	184	1
4	5320	27	2.7	189	1
5	5320	25	3.6	172	1
6	5320	27	4.4	171	1
7	5320	29	2.3	227	1
8	5320	26	1	164	1
9	5320	24	2.2	212	1
10	5320	24	3.7	202	1
11	5320	25	2.6	177	1
12	5320	28	4	223	1
13	5320	27	1.7	170	1
14	5320	29	4.6	204	1
15	5320	25	4.4	165	1
16	5320	25	4	152	1
17	5320	23	2.3	166	1
18	5320	28	4.2	186	1
19	5320	23	1.2	209	1
20	5320	29	3.1	164	1
21	5320	24	4.2	227	1
22	5320	28	1.6	205	1
23	5320	24	4.6	188	1
24	5320	26	3.3	171	1
25	5320	28	4.3	201	1
26	5320	27	4.6	164	1
27	5320	26	3.8	225	1
28	5320	26	1.7	160	1
29	5320	27	2.6	212	1
30	5320	29	4.3	229	1
<b>Detection Percentage: 100 % (&gt;60%)</b>					

**Radar Type 3 Statistical Performance**

<b>Trial #</b>	<b>Fc (MHz)</b>	<b>Pulse/Burst</b>	<b>Pulse Width (μS)</b>	<b>PRI (μs)</b>	<b>Detection (1:yes; 0:no)</b>
1	5320	17	8.3	229	1
2	5320	18	6.3	307	1
3	5320	17	9.9	499	1
4	5320	16	6.8	407	1
5	5320	16	6.6	231	1
6	5320	16	7.2	261	1
7	5320	16	9.7	214	1
8	5320	16	8.3	499	1
9	5320	18	9.5	248	1
10	5320	18	8	421	1
11	5320	18	10	314	1
12	5320	18	6	282	1
13	5320	17	8.8	272	1
14	5320	18	6.1	323	1
15	5320	16	9.8	300	1
16	5320	17	9.6	481	1
17	5320	18	7.3	383	1
18	5320	17	6.8	231	1
19	5320	16	7.7	378	1
20	5320	17	8	428	1
21	5320	17	6.8	489	1
22	5320	16	8.6	263	1
23	5320	18	7.1	426	1
24	5320	16	8.9	225	1
25	5320	16	10	202	1
26	5320	16	9.3	390	1
27	5320	16	8	276	1
28	5320	18	8.9	279	1
29	5320	17	9	424	1
30	5320	16	8.4	394	1
<b>Detection Percentage: 100 % (&gt;60%)</b>					



**Radar Type 4 Statistical Performance**

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width ( $\mu$ S)	PRI ( $\mu$ s)	Detection (1:yes; 0:no)
1	5320	16	13.3	470	1
2	5320	15	13.7	329	1
3	5320	16	17.1	232	1
4	5320	12	15.4	224	1
5	5320	15	18.4	242	1
6	5320	16	19.9	364	1
7	5320	15	12.8	229	1
8	5320	13	18.6	357	1
9	5320	14	13.2	208	1
10	5320	16	15.5	233	1
11	5320	13	12	407	1
12	5320	15	17.6	500	1
13	5320	12	11.5	342	1
14	5320	16	18.5	494	1
15	5320	14	19.6	499	1
16	5320	13	18.8	447	1
17	5320	14	16.9	337	1
18	5320	16	16.4	274	1
19	5320	15	18.6	243	1
20	5320	16	13.9	492	1
21	5320	12	16.8	458	1
22	5320	12	14.8	312	1
23	5320	15	19	262	1
24	5320	15	18.4	380	1
25	5320	16	18.1	351	1
26	5320	12	15.9	457	1
27	5320	15	15.3	422	1
28	5320	13	17.1	333	1
29	5320	12	13.2	460	1
30	5320	12	17.1	271	1
<b>Detection Percentage: 100% (&gt;60%)</b>					

**Radar Type 5 Case 1 Statistical Performance**

Statistics 1 (ChirpCenter Frequency: 5320.0MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	7	78.8	1514	1552	0.057649	1
1	3	7	81.4	1718	1956	1.00244	
2	1	7	93.8			1.499329	
3	3	7	57.9	1924	1168	2.793913	
4	1	7	63.2			3.093357	
5	3	7	86	1916	1200	3.576173	
6	1	7	58.7			4.573887	
7	2	7	69.4	1758		5.597817	
8	2	7	53.6	1893		6.238553	
9	1	7	57.9			6.524646	
10	2	7	97.8	1950		7.077563	
11	1	7	62.7			8.045049	
12	3	7	96.1	1444	1706	8.903329	
13	2	7	53.5	1143		9.862041	
14	1	7	75.6			10.42846	
15	3	7	63.2	1827	1305	11.0925	
16	1	7	98.9			11.3347	

Statistics 2 (ChirpCenter Frequency: 5320.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	6	82.6	1660		0.200333	1
1	3	6	73.7	1002	1143	0.697605	
2	3	6	67.1	1691	1411	1.593617	
3	3	6	87.4	1106	1096	2.270964	
4	2	6	68.5	1280		2.811982	
5	2	6	89.3	1697		3.772364	
6	2	6	88.8	1068		3.923611	
7	3	6	94.6	1502	1568	4.596031	
8	3	6	69.6	1949	1813	5.400937	
9	2	6	94.7	1610		5.982388	
10	2	6	81	1116		6.805668	
11	2	6	84.1	1504		7.063814	
12	2	6	67.3	1530		7.661193	
13	2	6	89.9	1477		8.497545	
14	3	6	71.2	1271	1643	9.286375	
15	3	6	75.4	1085	1496	9.655695	
16	2	6	64.1	1415		10.64342	
17	2	6	51.1	1399		10.8396	
18	1	6	83.8			11.68719	

Statistics 3 (ChirpCenter Frequency: 5320.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	13	67.9	1339		0.652207	1
1	2	13	90.2	1232		0.998842	
2	3	13	83.7	1710	1006	1.992672	
3	2	13	51.8	1390		2.446541	
4	3	13	79.6	1765	1508	2.733735	
5	2	13	50.3	1844		3.984623	
6	2	13	60.6	1563		4.349173	
7	2	13	75.4	1245		4.709038	
8	1	13	79.4			5.628341	
9	1	13	91.1			6.291219	
10	2	13	86.9	1348		7.318024	
11	3	13	75.2	1640	1122	7.646774	
12	2	13	84.2	1177		8.065686	
13	2	13	95.7	1655		8.965679	
14	2	13	50.6	1427		9.346835	
15	2	13	58.8	1256		10.05633	
16	2	13	96	1669		11.02353	
17	2	13	82.6	1432		11.7589	

Statistics 4 (ChirpCenter Frequency: 5320.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	8	86.3			0.678641	1
1	2	8	91.8	1233		0.837961	
2	1	8	92			1.785013	
3	2	8	64.8	1565		2.359872	
4	1	8	67.8			3.387566	
5	2	8	71.7	1976		3.592862	
6	3	8	65.2	1813	1075	4.871179	
7	2	8	52.3	1421		5.196952	
8	2	8	55.3	1013		6.028872	
9	1	8	61.2			6.688161	
10	3	8	57.5	1098	1012	7.093387	
11	2	8	81.1	1456		7.986404	
12	3	8	55.7	1909	1895	8.864661	
13	3	8	64.6	1300	1046	9.32268	
14	1	8	88.3			10.53623	
15	2	8	75.5	1779		10.98282	
16	3	8	62.5	1752	1335	11.92992	

## Statistics 5(ChirpCenter Frequency: 5320.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	16	88.9			0.231522	1
1	1	16	71.9			1.076297	
2	1	16	87.9			1.542202	
3	2	16	53	1836		2.340174	
4	2	16	54.4	1355		3.693825	
5	3	16	70.2	1689	1689	4.246373	
6	2	16	91.9	1795		4.572044	
7	3	16	79.5	1007	1092	5.959518	
8	1	16	90.7			6.66867	
9	2	16	65.6	1538		7.37648	
10	3	16	84.9	1986	1217	7.697262	
11	3	16	66.7	1789	1961	8.419404	
12	3	16	99.2	1495	1012	9.014764	
13	2	16	93.1	1486		10.47896	
14	2	16	64.2	1833		11.0857	
15	2	16	72.7	1626		11.86737	

## Statistics 6 (ChirpCenter Frequency: 5320.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	12	98.1	1999		0.707154	1
1	2	12	68.7	1703		1.237867	
2	2	12	54.9	1434		1.865818	
3	3	12	82.7	1903	1015	3.384559	
4	2	12	67.3	1704		4.147546	
5	3	12	94.5	1114	1848	4.962701	
6	3	12	59.2	1154	1829	6.348465	
7	1	12	74			6.583651	
8	2	12	85.3	1707		8.281929	
9	1	12	82.1			9.158682	
10	2	12	60.4	1160		9.510435	
11	1	12	95.6			10.20295	
12	1	12	66.3			11.2009	

## Statistics 7(ChirpCenter Frequency: 5320.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	6	82.5	1592		0.118673	1
1	2	6	96.8	1760		1.961323	
2	3	6	76.1	1823	1928	3.117594	
3	1	6	89.8			5.969601	
4	1	6	60.5			6.653877	
5	1	6	87.7			8.371586	
6	2	6	72.7	1783		10.07149	
7	2	6	65.2	1169		11.11432	

## Statistics 8 (ChirpCenter Frequency: 5320.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	15	90.6			0.601669	1
1	3	15	75	1206	1050	1.589227	
2	2	15	87.6	1018		2.024593	
3	2	15	89.1	1698		3.579856	
4	1	15	58.8			4.301449	
5	2	15	98.7	1497		5.051872	
6	2	15	99.7	1981		5.630003	
7	2	15	54.9	1448		6.773727	
8	3	15	93.9	1929	1118	7.862866	
9	2	15	96	1953		9.195327	
10	2	15	94.2	1301		9.788728	
11	1	15	90.5			10.46406	
12	3	15	98	1802	1248	11.56947	

Statistics 9 (ChirpCenter Frequency: 5320.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	15	65.5			0.515927	1
1	1	15	78.9			1.281543	
2	3	15	56.8	1905	1659	1.587246	
3	2	15	58.1	1086		2.088206	
4	2	15	97	1658		2.727478	
5	1	15	77.3			3.859102	
6	1	15	96.6			4.110663	
7	3	15	85.6	1403	1724	4.814454	
8	2	15	98.4	1693		5.531743	
9	2	15	92.1	1384		6.394227	
10	1	15	91.4			7.225406	
11	2	15	56.4	1267		7.943529	
12	2	15	61.5	1880		8.46168	
13	3	15	68.8	1239	1951	8.78836	
14	1	15	98.7			9.483234	
15	1	15	56.7			10.18302	
16	2	15	56.8	1692		11.0783	
17	2	15	80.7	1572		11.79519	

Statistics 10 (ChirpCenter Frequency: 5320.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	16	90.1			0.55239	1
1	3	16	94.1	1006	1563	0.837509	
2	1	16	84.7			1.274558	
3	2	16	93.1	1831		2.30441	
4	2	16	64.6	1307		2.837064	
5	1	16	94.4			3.098991	
6	1	16	84.6			3.718655	
7	1	16	59.9			4.737468	
8	3	16	83.4	1355	1204	5.351935	
9	2	16	98.2	1386		5.630657	
10	1	16	61			6.304138	
11	2	16	88.6	1016		7.098436	
12	3	16	84.2	1699	1285	7.546815	
13	2	16	62.2	1986		8.284883	
14	1	16	93.2			8.445264	
15	2	16	70.8	1559		9.361704	
16	3	16	95.3	1931	1864	10.06456	
17	2	16	96.1	1283		10.39165	
18	2	16	84.5	1791		10.85295	
19	1	16	87.7			11.66087	

**Radar Type 5 Case 2 Statistical Performance**

Statistics 1 (ChirpCenter Frequency: 5317.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	18	88.2	1518		0.283747	1
1	2	18	86.1	1994		1.389955	
2	1	18	80.7			1.715704	
3	1	18	87.1			2.570763	
4	1	18	90.4			3.342169	
5	1	18	95.5			4.10924	
6	1	18	55.4			5.195157	
7	3	18	50.8	1413	1842	5.625751	
8	1	18	57.8			6.286611	
9	2	18	89.6	1992		7.341279	
10	2	18	82.1	1924		7.779685	
11	2	18	54.1	1659		8.800124	
12	2	18	97	1628		9.060734	
13	2	18	52.3	1955		9.761489	
14	3	18	76.8	1067	1636	11.10547	
15	1	18	89.2			11.69993	

Statistics 2 (ChirpCenter Frequency: 5314.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	10	81.4	1243		1.268412	1
1	1	10	74.6			2.116783	
2	3	10	90	1621	1300	3.024818	
3	3	10	74.4	1348	1342	4.232828	
4	2	10	73.5	1051		6.45566	
5	2	10	53.2	1514		7.929177	
6	1	10	50.5			8.660279	
7	1	10	68.3			9.901811	
8	1	10	64.9			11.85317	

## Statistics 3 (ChirpCenter Frequency: 5315.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	13	93.4			0.299605	1
1	3	13	55.3	1689	1159	1.147096	
2	3	13	94.3	1295	1407	2.148614	
3	2	13	67.1	1577		2.915296	
4	2	13	54.6	1832		3.855923	
5	3	13	70.9	1805	1306	4.361623	
6	2	13	72.1	1468		5.398879	
7	2	13	99.7	1805		6.101818	
8	3	13	69.9	1684	1720	6.402352	
9	2	13	80.2	1486		7.389963	
10	2	13	97.7	1192		8.447664	
11	3	13	53.1	1094	1848	9.517971	
12	2	13	59	1177		10.31458	
13	2	13	64.6	1053		10.70388	
14	1	13	93.5			11.40576	

## Statistics 4 (ChirpCenter Frequency: 5314.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	9	71.5	1465	1261	0.114506	1
1	3	9	74.1	1864	1268	0.889145	
2	3	9	60	1787	1122	1.763849	
3	1	9	76.7			1.817636	
4	3	9	92.9	1048	1019	2.657384	
5	1	9	90.2			3.433307	
6	2	9	92.9	1857		4.189223	
7	2	9	63.6	1985		4.697868	
8	1	9	98.7			5.136904	
9	3	9	54.6	1499	1053	5.414451	
10	1	9	80.7			6.337939	
11	3	9	65.6	1483	1935	6.854298	
12	3	9	87.3	1888	1384	7.377262	
13	1	9	61.3			7.848342	
14	3	9	76.9	1744	1645	8.893861	
15	1	9	83.1			9.221799	
16	3	9	53.9	1785	1722	10.10434	
17	2	9	63.4	1432		10.7084	
18	1	9	97			11.0364	
19	3	9	54	1036	1440	11.49173	



Statistics 5 (ChirpCenter Frequency: 5318.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	20	67.2	1827		0.671576	1
1	3	20	75.4	1853	1974	1.074896	
2	2	20	58.6	1356		2.164873	
3	3	20	67.8	1832	1395	2.932429	
4	2	20	88.2	1331		3.650709	
5	1	20	68.9			4.477566	
6	3	20	72.1	1415	1345	5.014345	
7	3	20	94.4	1966	1901	5.797485	
8	1	20	55.4			6.565085	
9	2	20	73.9	1682		7.304364	
10	2	20	99.6	1724		8.160078	
11	2	20	81.3	1998		8.702113	
12	2	20	60.9	1864		9.582223	
13	2	20	86.8	1460		9.952686	
14	3	20	84.3	1877	1949	11.19929	
15	2	20	62	1518		11.28576	

Statistics 6 (ChirpCenter Frequency: 5315.0MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	13	92.4			0.750088	1
1	3	13	63.7	1400	1701	1.350304	
2	1	13	98.2			2.682549	
3	3	13	52.4	1287	1938	3.900846	
4	3	13	53.6	1656	1421	5.183684	
5	2	13	72.2	1913		6.702352	
6	2	13	54.8	1534		7.919026	
7	3	13	87	1002	1424	9.442248	
8	2	13	62.6	1287		10.02883	
9	1	13	57.3			11.24905	

Statistics 7 (ChirpCenter Frequency: 5313.0MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	7	72.6	1188	1597	0.207729	1
1	3	7	51.1	1729	1173	1.815775	
2	1	7	50.8			2.020673	
3	2	7	64.3	1893		3.36418	
4	3	7	94.5	1322	1743	4.709927	
5	3	7	88.6	1825	1574	5.078078	
6	2	7	53.1	1807		6.146046	
7	2	7	58	1368		7.675255	
8	2	7	51.2	1541		8.195902	
9	3	7	88.2	1448	1227	9.252171	
10	2	7	85.9	1501		10.20653	
11	2	7	78.1	1493		11.19021	

## Statistics 8 (ChirpCenter Frequency: 5315.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width ( $\mu$ S)	Pulse 1-2 spacing( $\mu$ S)	Pulse 2-3 spacing( $\mu$ S)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	13	71.4			0.442786	1
1	2	13	78.8	1026		1.479407	
2	2	13	56.2	1722		2.731959	
3	3	13	76.5	1169	1575	3.063215	
4	3	13	75.8	1495	1764	3.70321	
5	1	13	92			4.857263	
6	3	13	60.4	1992	1541	6.374062	
7	1	13	89.1			6.794501	
8	1	13	93.6			7.682797	
9	3	13	79.2	1362	1366	9.018321	
10	1	13	52.7			9.37726	
11	2	13	59.4	1557		10.72259	
12	2	13	52.3	1582		11.47702	

## Statistics 9 (ChirpCenter Frequency: 5314.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width ( $\mu$ S)	Pulse 1-2 spacing( $\mu$ S)	Pulse 2-3 spacing( $\mu$ S)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	10	71.3	1138	1719	0.259322	1
1	1	10	57.8			0.962719	
2	2	10	89.6	1758		1.338268	
3	2	10	73.8	1660		2.106135	
4	2	10	66.6	1677		2.654765	
5	3	10	82.6	1244	1588	3.338631	
6	2	10	88.3	1704		3.99582	
7	1	10	87.5			4.644815	
8	1	10	65.6			5.327161	
9	2	10	90	1276		5.938581	
10	1	10	56.3			6.246654	
11	1	10	60.6			6.928048	
12	3	10	80.1	1862	1499	7.268706	
13	1	10	78.8			8.2438	
14	2	10	76.1	1968		8.406707	
15	2	10	53.1	1227		9.222343	
16	1	10	88.7			9.65403	
17	2	10	64.5	1637		10.2302	
18	2	10	50.4	1176		10.95792	
19	2	10	50.8	1766		11.76572	

## Statistics 10 (ChirpCenter Frequency: 5317.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	18	59.7	1558	1912	0.521215	1
1	2	18	62.6	1397		1.491685	
2	3	18	81.1	1223	1353	2.164334	
3	3	18	89	1864	1361	2.435217	
4	2	18	91.9	1639		3.459277	
5	1	18	74.1			3.971688	
6	3	18	51.3	1106	1885	4.990107	
7	3	18	87.1	1763	1024	5.778253	
8	3	18	60.6	1736	1785	6.012155	
9	2	18	75.5	1298		6.809364	
10	2	18	63.5	1249		8.157843	
11	3	18	61.9	1664	1171	8.310201	
12	2	18	68.3	1115		9.341153	
13	3	18	63.7	1960	1074	10.07983	
14	1	18	64.8			10.98401	
15	2	18	95.6	1066		11.45639	

**Radar Type 5 Case 3 Statistical Performance**

Statistics 1 (ChirpCenter Frequency: 5324.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	16	56.3	1423		1.160988	1
1	1	16	60.3			1.780872	
2	2	16	55.2	1939		3.390133	
3	3	16	61.7	1093	1663	4.584196	
4	2	16	70.3	1730		5.680477	
5	3	16	74.7	1142	1099	6.689243	
6	2	16	73.2	1545		8.963456	
7	1	16	64.9			9.946606	
8	2	16	77.6	1145		11.30772	

Statistics 2 (ChirpCenter Frequency: 5325.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	13	89.2			0.442723	1
1	2	13	67.4	1232		1.008456	
2	3	13	91	1669	1458	1.852488	
3	1	13	59.2			2.958145	
4	2	13	64.3	1988		3.583886	
5	2	13	58.2	1801		4.963094	
6	2	13	72.6	1314		5.144888	
7	1	13	90.6			6.631779	
8	2	13	97.1	1035		7.23724	
9	2	13	71.5	1829		7.919958	
10	3	13	98.3	1078	1395	9.400248	
11	3	13	81.9	1343	1963	9.740118	
12	2	13	59.2	1940		10.45026	
13	1	13	84.9			11.70957	

Statistics 3 (ChirpCenter Frequency: 5324.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	16	74.1			0.564747	1
1	3	16	82.8	1971	1307	0.967319	
2	1	16	72.3			2.336383	
3	1	16	74.9			3.009313	
4	1	16	69.8			3.363124	
5	2	16	63.8	1483		4.179646	
6	2	16	77.8	1770		5.201826	
7	1	16	86.7			6.256011	
8	2	16	64.6	1477		6.710567	
9	2	16	97.9	1776		7.812171	
10	2	16	69.3	1591		8.464401	
11	3	16	77.4	1877	1551	9.485655	
12	3	16	80.9	1134	1085	10.19316	
13	2	16	54.9	1530		11.08156	
14	3	16	99.2	1150	1790	11.80427	

Statistics 4 (ChirpCenter Frequency: 5327.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	1	7	59.3			1.005751	1
1	2	7	75.9	1636		2.021087	
2	3	7	92.9	1766	1819	3.053109	
3	1	7	81.9			3.944669	
4	2	7	88.5	1866		5.154181	
5	1	7	99.7			7.16069	
6	1	7	54.2			8.163928	
7	1	7	88.2			8.50502	
8	2	7	81.8	1364		9.779078	
9	2	7	91.5	1915		11.70264	

Statistics 5 (ChirpCenter Frequency: 5327.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	8	71.8	1262	1593	0.376359	1
1	2	8	69.4	1335		0.774609	
2	2	8	71.9	1129		1.83529	
3	1	8	59.6			2.345219	
4	2	8	92.5	1667		3.744518	
5	2	8	96.7	1689		3.972566	
6	2	8	72.6	1279		4.698454	
7	2	8	60.5	1401		5.328131	
8	2	8	78	1916		6.126458	
9	2	8	93.3	1788		6.829976	
10	2	8	94	1669		8.026659	
11	2	8	95.5	1803		8.672957	
12	1	8	74.4			9.632374	
13	3	8	64.9	2000	1173	10.3792	
14	3	8	79.5	1812	1766	11.19103	
15	2	8	77.9	1725		11.44582	

Statistics 6 (ChirpCenter Frequency: 5322.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	20	76.8	1253		0.460447	1
1	2	20	72.5	1921		1.244764	
2	1	20	92.5			2.09681	
3	2	20	90.9	1759		3.567645	
4	1	20	91			4.023398	
5	2	20	58.1	1560		5.440659	
6	1	20	67.4			6.095009	
7	3	20	81	1098	1646	7.300765	
8	2	20	52.4	1855		7.756054	
9	2	20	82.3	1637		9.087194	
10	1	20	52.5			9.295451	
11	1	20	59.1			10.7925	
12	1	20	73.5			11.57336	

Statistics 7 (ChirpCenter Frequency: 5325.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	13	70.6	1873	1892	0.09977	1
1	2	13	77.2	1497		2.616659	
2	2	13	67.1	1330		3.21487	
3	2	13	84.2	1123		5.22076	
4	1	13	63.5			6.426298	
5	2	13	73.3	1060		7.037752	
6	2	13	70.8	1658		9.323185	
7	1	13	58.8			10.59258	
8	2	13	82.4	1689		11.32518	

Statistics 8 (ChirpCenter Frequency: 5324.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	15	85.8	1709		1.059127	1
1	1	15	77.3			2.185251	
2	2	15	83	1393		3.441067	
3	3	15	62.5	1726	1247	4.440845	
4	1	15	99.6			6.029938	
5	2	15	60.8	1351		7.279378	
6	2	15	72.2	1064		8.330938	
7	2	15	84.2	1948		10.18231	
8	2	15	95.4	1933		11.16247	

Statistics 9 (ChirpCenter Frequency: 5325.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	3	12	74.1	1978	1986	0.125649	1
1	2	12	50.8	1910		1.028408	
2	3	12	94.2	1530	1781	1.780813	
3	1	12	58.3			2.12412	
4	2	12	87	1082		2.798509	
5	1	12	73.5			3.381517	
6	2	12	50.3	1428		4.145886	
7	2	12	57	1544		4.344053	
8	2	12	70.9	1838		5.123532	
9	1	12	72.4			5.914752	
10	2	12	62.3	1174		6.036308	
11	1	12	83			6.680608	
12	3	12	91.1	1693	1630	7.390879	
13	3	12	98.4	1475	1991	7.965779	
14	3	12	80.1	1106	1027	8.602322	
15	1	12	73.6			9.154847	
16	2	12	63.1	1008		9.931997	
17	3	12	71.2	1201	1016	10.22618	
18	2	12	58.5	1355		10.91783	
19	2	12	95	1321		11.48979	

## Statistics 10 (ChirpCenter Frequency: 5324.0 MHz)

Trial #	Pulse	Chirp(MHz)	Pulse Width (μS)	Pulse 1-2 spacing(μS)	Pulse 2-3 spacing(μS)	Pulse Start(S)	Detection (1:yes;0:no)
0	2	16	76.3	1171		0.309229	1
1	3	16	64	1432	1555	1.131131	
2	3	16	94.1	1573	1451	1.562635	
3	1	16	62.5			1.914106	
4	2	16	90.3	1126		2.553584	
5	2	16	84.8	1095		3.286102	
6	1	16	85.8			4.078259	
7	2	16	95.7	1450		4.776554	
8	2	16	80.9	1879		5.568577	
9	2	16	53.6	1644		5.733431	
10	1	16	91.2			6.414737	
11	2	16	68.1	1258		7.25476	
12	2	16	68.2	1354		8.125487	
13	2	16	88.1	1770		8.71685	
14	3	16	83.9	1791	1828	9.427841	
15	1	16	54.9			9.644306	
16	3	16	60	1354	1204	10.50661	
17	3	16	59.2	1202	1603	10.89572	
18	2	16	92.9	1117		11.56657	

**Radar Type 6 Statistical Performance**

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)	Hopping Sequence (MHz)
1	5320	9	1	333	1	5658.0, 5501.0, 5611.0, 5528.0, 5568.0, 5659.0, 5624.0, 5690.0, 5646.0, 5596.0, 5499.0, 5428.0, 5364.0, 5373.0, 5686.0, 5404.0, 5460.0, 5585.0, 5274.0, 5475.0, 5401.0, 5257.0, 5356.0, 5485.0, 5293.0, 5470.0, 5467.0, 5445.0, 5537.0, 5652.0, 5361.0, 5359.0, 5572.0, 5600.0, 5668.0, 5565.0, 5554.0, 5303.0, 5541.0, 5350.0, 5474.0, 5431.0, 5321.0, 5326.0, 5444.0, 5453.0, 5479.0, 5362.0, 5408.0, 5342.0, 5702.0, 5276.0, 5641.0, 5557.0, 5718.0, 5368.0, 5469.0, 5525.0, 5713.0, 5302.0, 5687.0, 5527.0, 5317.0, 5281.0, 5254.0, 5705.0, 5367.0, 5340.0, 5595.0, 5297.0, 5671.0, 5523.0, 5358.0, 5522.0, 5636.0, 5432.0, 5398.0, 5492.0, 5691.0, 5604.0, 5681.0, 5379.0, 5472.0, 5275.0, 5576.0, 5335.0, 5589.0, 5616.0, 5530.0, 5694.0, 5365.0, 5520.0, 5662.0, 5489.0, 5296.0, 5517.0, 5683.0, 5579.0, 5347.0, 5588.0 (number of hits: 3)
2	5320	9	1	333	1	5591.0, 5419.0, 5673.0, 5265.0, 5636.0, 5637.0, 5310.0, 5698.0, 5646.0, 5482.0, 5543.0, 5330.0, 5643.0, 5355.0, 5519.0, 5446.0, 5652.0, 5590.0, 5712.0, 5387.0, 5278.0, 5666.0, 5316.0, 5444.0, 5538.0, 5492.0, 5396.0, 5421.0, 5349.0, 5587.0, 5254.0, 5385.0, 5275.0, 5616.0, 5323.0, 5672.0, 5338.0, 5531.0, 5313.0, 5456.0, 5487.0, 5322.0, 5276.0, 5332.0, 5692.0, 5369.0, 5663.0, 5568.0, 5415.0, 5682.0, 5346.0, 5669.0, 5460.0, 5541.0, 5540.0, 5326.0, 5605.0, 5357.0, 5398.0, 5656.0, 5263.0, 5393.0, 5584.0, 5510.0, 5638.0, 5306.0, 5439.0, 5670.0, 5557.0, 5592.0, 5521.0, 5620.0, 5401.0, 5284.0, 5607.0, 5390.0, 5629.0, 5574.0, 5546.0, 5333.0, 5689.0, 5469.0, 5321.0, 5378.0, 5285.0, 5596.0, 5461.0, 5457.0, 5602.0, 5555.0, 5582.0, 5633.0, 5267.0, 5484.0, 5677.0, 5674.0, 5345.0, 5690.0, 5608.0, 5347.0 (number of hits: 7)
3	5320	9	1	333	1	5689.0, 5652.0, 5578.0, 5545.0, 5531.0, 5659.0, 5356.0, 5547.0, 5388.0, 5503.0, 5499.0, 5563.0, 5719.0, 5395.0, 5517.0, 5569.0, 5589.0, 5714.0, 5377.0, 5493.0, 5469.0, 5350.0, 5619.0, 5560.0, 5593.0, 5369.0, 5394.0, 5445.0, 5654.0, 5449.0, 5638.0, 5328.0, 5627.0, 5678.0, 5470.0, 5366.0, 5343.0, 5490.0, 5441.0, 5572.0, 5590.0, 5541.0, 5594.0, 5723.0, 5529.0, 5300.0, 5581.0, 5354.0, 5443.0, 5544.0, 5677.0, 5534.0, 5576.0, 5429.0, 5644.0, 5621.0, 5552.0, 5434.0, 5282.0, 5287.0,



						5507.0, 5511.0, 5465.0, 5345.0, 5592.0, 5427.0, 5267.0, 5696.0, 5495.0, 5405.0, 5648.0, 5585.0, 5389.0, 5420.0, 5538.0, 5390.0, 5452.0, 5600.0, 5695.0, 5707.0, 5406.0, 5656.0, 5338.0, 5641.0, 5359.0, 5286.0, 5281.0, 5403.0, 5276.0, 5602.0, 5681.0, 5373.0, 5636.0, 5556.0, 5626.0, 5475.0, 5661.0, 5386.0, 5530.0, 5413.0 (number of hits: 1)
4	5320	9	1	333	1	5633.0, 5546.0, 5377.0, 5389.0, 5539.0, 5380.0, 5391.0, 5457.0, 5327.0, 5278.0, 5714.0, 5335.0, 5715.0, 5594.0, 5544.0, 5437.0, 5368.0, 5509.0, 5275.0, 5301.0, 5410.0, 5669.0, 5675.0, 5323.0, 5411.0, 5538.0, 5533.0, 5629.0, 5417.0, 5460.0, 5346.0, 5355.0, 5304.0, 5639.0, 5382.0, 5677.0, 5441.0, 5261.0, 5527.0, 5579.0, 5610.0, 5702.0, 5392.0, 5466.0, 5388.0, 5532.0, 5637.0, 5311.0, 5360.0, 5302.0, 5407.0, 5296.0, 5547.0, 5475.0, 5647.0, 5609.0, 5365.0, 5680.0, 5600.0, 5500.0, 5507.0, 5587.0, 5330.0, 5705.0, 5331.0, 5310.0, 5471.0, 5298.0, 5557.0, 5723.0, 5711.0, 5269.0, 5412.0, 5277.0, 5493.0, 5345.0, 5599.0, 5289.0, 5604.0, 5348.0, 5464.0, 5314.0, 5679.0, 5685.0, 5482.0, 5448.0, 5665.0, 5529.0, 5502.0, 5574.0, 5444.0, 5358.0, 5536.0, 5601.0, 5428.0, 5483.0, 5349.0, 5720.0, 5512.0, 5357.0 (number of hits: 5)
5	5320	9	1	333	1	5581.0, 5570.0, 5416.0, 5270.0, 5463.0, 5380.0, 5449.0, 5671.0, 5297.0, 5316.0, 5456.0, 5417.0, 5432.0, 5548.0, 5340.0, 5423.0, 5530.0, 5411.0, 5585.0, 5436.0, 5535.0, 5630.0, 5462.0, 5475.0, 5504.0, 5718.0, 5680.0, 5592.0, 5542.0, 5586.0, 5379.0, 5265.0, 5709.0, 5663.0, 5568.0, 5308.0, 5273.0, 5600.0, 5302.0, 5365.0, 5303.0, 5499.0, 5412.0, 5413.0, 5650.0, 5559.0, 5325.0, 5399.0, 5443.0, 5288.0, 5492.0, 5618.0, 5440.0, 5326.0, 5338.0, 5578.0, 5500.0, 5591.0, 5385.0, 5257.0, 5565.0, 5521.0, 5388.0, 5351.0, 5403.0, 5280.0, 5700.0, 5540.0, 5722.0, 5441.0, 5401.0, 5458.0, 5528.0, 5259.0, 5275.0, 5695.0, 5279.0, 5527.0, 5366.0, 5468.0, 5307.0, 5512.0, 5620.0, 5491.0, 5692.0, 5345.0, 5264.0, 5356.0, 5667.0, 5694.0, 5614.0, 5444.0, 5311.0, 5400.0, 5562.0, 5466.0, 5387.0, 5276.0, 5360.0, 5604.0 (number of hits: 4)
6	5320	9	1	333	1	5660.0, 5678.0, 5320.0, 5570.0, 5474.0, 5307.0, 5462.0, 5473.0, 5456.0, 5480.0, 5356.0, 5410.0, 5489.0, 5470.0, 5648.0, 5441.0, 5426.0, 5432.0, 5681.0, 5465.0, 5454.0, 5722.0, 5602.0, 5479.0, 5435.0, 5391.0, 5614.0, 5434.0, 5427.0, 5430.0, 5639.0, 5388.0, 5578.0, 5296.0, 5310.0, 5338.0, 5550.0, 5591.0, 5431.0, 5403.0,

						5625.0, 5649.0, 5527.0, 5368.0, 5330.0, 5716.0, 5295.0, 5417.0, 5539.0, 5582.0, 5406.0, 5305.0, 5685.0, 5544.0, 5377.0, 5715.0, 5282.0, 5428.0, 5658.0, 5622.0, 5567.0, 5502.0, 5369.0, 5290.0, 5402.0, 5271.0, 5274.0, 5347.0, 5719.0, 5367.0, 5349.0, 5436.0, 5572.0, 5376.0, 5654.0, 5321.0, 5574.0, 5348.0, 5409.0, 5554.0, 5652.0, 5493.0, 5312.0, 5498.0, 5328.0, 5696.0, 5703.0, 5365.0, 5557.0, 5563.0, 5419.0, 5676.0, 5472.0, 5496.0, 5418.0, 5597.0, 5525.0, 5281.0, 5549.0, 5340.0 (number of hits: 5)
7	5320	9	1	333	1	5321.0, 5446.0, 5282.0, 5396.0, 5518.0, 5464.0, 5495.0, 5423.0, 5370.0, 5255.0, 5555.0, 5349.0, 5300.0, 5439.0, 5320.0, 5472.0, 5437.0, 5666.0, 5393.0, 5391.0, 5713.0, 5703.0, 5604.0, 5362.0, 5571.0, 5422.0, 5526.0, 5358.0, 5619.0, 5517.0, 5609.0, 5625.0, 5673.0, 5650.0, 5669.0, 5580.0, 5388.0, 5345.0, 5678.0, 5544.0, 5346.0, 5662.0, 5519.0, 5253.0, 5578.0, 5368.0, 5375.0, 5313.0, 5594.0, 5593.0, 5485.0, 5596.0, 5452.0, 5679.0, 5566.0, 5484.0, 5528.0, 5327.0, 5617.0, 5708.0, 5583.0, 5601.0, 5694.0, 5390.0, 5382.0, 5457.0, 5278.0, 5704.0, 5551.0, 5305.0, 5690.0, 5718.0, 5649.0, 5591.0, 5516.0, 5299.0, 5287.0, 5568.0, 5723.0, 5608.0, 5696.0, 5428.0, 5301.0, 5506.0, 5476.0, 5560.0, 5357.0, 5409.0, 5720.0, 5719.0, 5426.0, 5442.0, 5611.0, 5331.0, 5542.0, 5540.0, 5431.0, 5672.0, 5499.0, 5533.0 (number of hits: 4)
8	5320	9	1	333	1	5598.0, 5390.0, 5584.0, 5599.0, 5424.0, 5686.0, 5671.0, 5633.0, 5462.0, 5304.0, 5654.0, 5586.0, 5272.0, 5721.0, 5701.0, 5484.0, 5342.0, 5385.0, 5408.0, 5362.0, 5417.0, 5677.0, 5482.0, 5319.0, 5514.0, 5361.0, 5340.0, 5402.0, 5358.0, 5348.0, 5580.0, 5296.0, 5468.0, 5532.0, 5703.0, 5704.0, 5549.0, 5287.0, 5522.0, 5548.0, 5302.0, 5389.0, 5336.0, 5405.0, 5480.0, 5350.0, 5271.0, 5505.0, 5274.0, 5646.0, 5407.0, 5649.0, 5431.0, 5294.0, 5707.0, 5291.0, 5356.0, 5446.0, 5665.0, 5607.0, 5344.0, 5691.0, 5392.0, 5349.0, 5384.0, 5648.0, 5559.0, 5257.0, 5689.0, 5310.0, 5418.0, 5347.0, 5675.0, 5325.0, 5351.0, 5544.0, 5694.0, 5299.0, 5432.0, 5661.0, 5653.0, 5543.0, 5629.0, 5557.0, 5717.0, 5466.0, 5266.0, 5540.0, 5360.0, 5613.0, 5539.0, 5616.0, 5368.0, 5635.0, 5678.0, 5501.0, 5515.0, 5411.0, 5372.0, 5451.0 (number of hits: 3)
9	5320	9	1	333	1	5354.0, 5325.0, 5642.0, 5416.0, 5410.0, 5617.0, 5639.0, 5381.0, 5457.0, 5337.0, 5376.0, 5595.0, 5597.0, 5383.0, 5444.0, 5522.0, 5373.0, 5659.0, 5525.0, 5517.0,

						5317.0, 5534.0, 5667.0, 5473.0, 5645.0, 5386.0, 5554.0, 5575.0, 5296.0, 5527.0, 5414.0, 5306.0, 5584.0, 5462.0, 5393.0, 5309.0, 5677.0, 5540.0, 5445.0, 5569.0, 5631.0, 5319.0, 5357.0, 5702.0, 5512.0, 5664.0, 5684.0, 5491.0, 5466.0, 5447.0, 5505.0, 5538.0, 5721.0, 5280.0, 5253.0, 5602.0, 5720.0, 5656.0, 5537.0, 5654.0, 5520.0, 5291.0, 5607.0, 5422.0, 5523.0, 5456.0, 5700.0, 5295.0, 5341.0, 5402.0, 5258.0, 5682.0, 5627.0, 5326.0, 5487.0, 5454.0, 5273.0, 5281.0, 5686.0, 5567.0, 5658.0, 5545.0, 5724.0, 5294.0, 5489.0, 5550.0, 5452.0, 5566.0, 5605.0, 5577.0, 5483.0, 5518.0, 5589.0, 5261.0, 5681.0, 5629.0, 5542.0, 5503.0, 5252.0, 5533.0 (number of hits: 4)
10	5320	9	1	333	1	5346.0, 5605.0, 5591.0, 5452.0, 5537.0, 5262.0, 5703.0, 5448.0, 5449.0, 5332.0, 5656.0, 5574.0, 5427.0, 5420.0, 5413.0, 5288.0, 5553.0, 5503.0, 5337.0, 5490.0, 5670.0, 5422.0, 5347.0, 5253.0, 5710.0, 5419.0, 5279.0, 5599.0, 5295.0, 5579.0, 5654.0, 5511.0, 5696.0, 5643.0, 5635.0, 5492.0, 5481.0, 5519.0, 5356.0, 5589.0, 5319.0, 5254.0, 5502.0, 5305.0, 5297.0, 5560.0, 5698.0, 5622.0, 5573.0, 5252.0, 5376.0, 5432.0, 5341.0, 5362.0, 5576.0, 5664.0, 5658.0, 5649.0, 5350.0, 5722.0, 5563.0, 5371.0, 5292.0, 5507.0, 5685.0, 5660.0, 5535.0, 5406.0, 5616.0, 5324.0, 5441.0, 5625.0, 5514.0, 5402.0, 5282.0, 5361.0, 5299.0, 5568.0, 5512.0, 5309.0, 5638.0, 5711.0, 5542.0, 5260.0, 5364.0, 5571.0, 5598.0, 5592.0, 5363.0, 5276.0, 5368.0, 5471.0, 5321.0, 5317.0, 5338.0, 5657.0, 5603.0, 5508.0, 5633.0, 5663.0 (number of hits: 4)
11	5320	9	1	333	1	5543.0, 5404.0, 5327.0, 5647.0, 5489.0, 5351.0, 5534.0, 5324.0, 5361.0, 5474.0, 5257.0, 5683.0, 5421.0, 5558.0, 5664.0, 5583.0, 5601.0, 5307.0, 5694.0, 5656.0, 5623.0, 5642.0, 5724.0, 5254.0, 5588.0, 5418.0, 5448.0, 5336.0, 5439.0, 5314.0, 5330.0, 5684.0, 5256.0, 5312.0, 5278.0, 5661.0, 5546.0, 5365.0, 5675.0, 5666.0, 5436.0, 5454.0, 5252.0, 5568.0, 5633.0, 5484.0, 5508.0, 5680.0, 5349.0, 5316.0, 5410.0, 5695.0, 5300.0, 5711.0, 5710.0, 5599.0, 5415.0, 5445.0, 5622.0, 5348.0, 5470.0, 5465.0, 5417.0, 5473.0, 5298.0, 5309.0, 5648.0, 5374.0, 5294.0, 5367.0, 5719.0, 5605.0, 5595.0, 5609.0, 5368.0, 5250.0, 5652.0, 5340.0, 5408.0, 5403.0, 5444.0, 5494.0, 5269.0, 5717.0, 5268.0, 5344.0, 5507.0, 5584.0, 5572.0, 5690.0, 5709.0, 5371.0, 5495.0, 5411.0, 5297.0, 5533.0, 5463.0, 5431.0, 5512.0, 5715.0 (number of hits: 5)

12	5320	9	1	333	1	5386.0, 5496.0, 5580.0, 5481.0, 5406.0, 5492.0, 5425.0, 5413.0, 5675.0, 5676.0, 5550.0, 5632.0, 5460.0, 5392.0, 5378.0, 5409.0, 5405.0, 5633.0, 5396.0, 5620.0, 5531.0, 5371.0, 5416.0, 5340.0, 5279.0, 5296.0, 5605.0, 5313.0, 5559.0, 5260.0, 5272.0, 5418.0, 5695.0, 5542.0, 5642.0, 5624.0, 5436.0, 5417.0, 5513.0, 5289.0, 5311.0, 5488.0, 5581.0, 5331.0, 5523.0, 5718.0, 5529.0, 5398.0, 5258.0, 5399.0, 5592.0, 5483.0, 5551.0, 5617.0, 5278.0, 5588.0, 5365.0, 5374.0, 5608.0, 5457.0, 5702.0, 5320.0, 5362.0, 5637.0, 5532.0, 5589.0, 5317.0, 5715.0, 5478.0, 5545.0, 5665.0, 5548.0, 5625.0, 5265.0, 5285.0, 5480.0, 5291.0, 5321.0, 5484.0, 5704.0, 5298.0, 5428.0, 5421.0, 5297.0, 5308.0, 5707.0, 5375.0, 5603.0, 5292.0, 5681.0, 5567.0, 5341.0, 5578.0, 5516.0, 5349.0, 5360.0, 5445.0, 5319.0, 5434.0, 5596.0 (number of hits: 6)
13	5320	9	1	333	1	5280.0, 5346.0, 5292.0, 5496.0, 5640.0, 5676.0, 5276.0, 5430.0, 5474.0, 5302.0, 5623.0, 5538.0, 5437.0, 5372.0, 5606.0, 5348.0, 5669.0, 5445.0, 5513.0, 5459.0, 5371.0, 5550.0, 5657.0, 5721.0, 5506.0, 5630.0, 5598.0, 5310.0, 5473.0, 5580.0, 5472.0, 5407.0, 5330.0, 5582.0, 5447.0, 5289.0, 5564.0, 5587.0, 5588.0, 5685.0, 5643.0, 5659.0, 5316.0, 5571.0, 5503.0, 5709.0, 5517.0, 5260.0, 5521.0, 5309.0, 5272.0, 5529.0, 5335.0, 5511.0, 5689.0, 5374.0, 5465.0, 5683.0, 5403.0, 5710.0, 5412.0, 5615.0, 5541.0, 5696.0, 5427.0, 5607.0, 5566.0, 5455.0, 5370.0, 5450.0, 5682.0, 5270.0, 5413.0, 5383.0, 5386.0, 5368.0, 5457.0, 5597.0, 5420.0, 5654.0, 5320.0, 5434.0, 5318.0, 5645.0, 5342.0, 5278.0, 5392.0, 5263.0, 5338.0, 5367.0, 5691.0, 5666.0, 5288.0, 5569.0, 5624.0, 5675.0, 5535.0, 5688.0, 5487.0, 5649.0 (number of hits: 4)
14	5320	9	1	333	1	5391.0, 5630.0, 5464.0, 5340.0, 5335.0, 5279.0, 5419.0, 5354.0, 5468.0, 5255.0, 5602.0, 5706.0, 5358.0, 5299.0, 5480.0, 5282.0, 5471.0, 5439.0, 5486.0, 5325.0, 5714.0, 5350.0, 5681.0, 5456.0, 5479.0, 5581.0, 5676.0, 5428.0, 5490.0, 5305.0, 5531.0, 5546.0, 5467.0, 5257.0, 5382.0, 5316.0, 5539.0, 5508.0, 5462.0, 5563.0, 5472.0, 5567.0, 5535.0, 5619.0, 5417.0, 5397.0, 5649.0, 5253.0, 5371.0, 5626.0, 5411.0, 5453.0, 5436.0, 5414.0, 5515.0, 5392.0, 5627.0, 5584.0, 5613.0, 5597.0, 5609.0, 5487.0, 5571.0, 5687.0, 5383.0, 5333.0, 5718.0, 5306.0, 5274.0, 5722.0, 5594.0, 5262.0, 5679.0, 5603.0, 5359.0, 5337.0, 5693.0, 5277.0, 5466.0, 5477.0, 5342.0, 5503.0, 5357.0, 5451.0, 5554.0,

						5265.0, 5271.0, 5254.0, 5715.0, 5366.0, 5363.0, 5492.0, 5381.0, 5251.0, 5703.0, 5341.0, 5380.0, 5510.0, 5260.0, 5720.0 (number of hits: 2 )
15	5320	9	1	333	1	5422.0, 5290.0, 5704.0, 5631.0, 5279.0, 5346.0, 5691.0, 5443.0, 5712.0, 5347.0, 5659.0, 5283.0, 5578.0, 5717.0, 5562.0, 5573.0, 5594.0, 5623.0, 5716.0, 5339.0, 5477.0, 5342.0, 5357.0, 5404.0, 5265.0, 5409.0, 5271.0, 5671.0, 5616.0, 5482.0, 5548.0, 5576.0, 5563.0, 5609.0, 5439.0, 5334.0, 5270.0, 5528.0, 5567.0, 5269.0, 5335.0, 5361.0, 5699.0, 5663.0, 5621.0, 5560.0, 5465.0, 5380.0, 5619.0, 5466.0, 5565.0, 5317.0, 5325.0, 5392.0, 5644.0, 5700.0, 5377.0, 5518.0, 5314.0, 5328.0, 5401.0, 5372.0, 5426.0, 5480.0, 5666.0, 5489.0, 5569.0, 5641.0, 5319.0, 5589.0, 5254.0, 5673.0, 5464.0, 5358.0, 5365.0, 5432.0, 5486.0, 5340.0, 5436.0, 5561.0, 5497.0, 5406.0, 5703.0, 5530.0, 5540.0, 5371.0, 5299.0, 5454.0, 5427.0, 5473.0, 5433.0, 5713.0, 5667.0, 5510.0, 5348.0, 5577.0, 5553.0, 5277.0, 5545.0, 5284.0 (number of hits: 5 )
16	5320	9	1	333	1	5341.0, 5429.0, 5546.0, 5275.0, 5295.0, 5518.0, 5271.0, 5501.0, 5270.0, 5456.0, 5682.0, 5393.0, 5558.0, 5380.0, 5668.0, 5686.0, 5445.0, 5426.0, 5604.0, 5550.0, 5657.0, 5697.0, 5584.0, 5549.0, 5460.0, 5371.0, 5412.0, 5481.0, 5705.0, 5277.0, 5560.0, 5387.0, 5599.0, 5654.0, 5263.0, 5350.0, 5430.0, 5713.0, 5298.0, 5327.0, 5578.0, 5292.0, 5315.0, 5450.0, 5650.0, 5438.0, 5530.0, 5716.0, 5552.0, 5361.0, 5313.0, 5605.0, 5261.0, 5706.0, 5577.0, 5693.0, 5388.0, 5420.0, 5434.0, 5288.0, 5262.0, 5376.0, 5360.0, 5469.0, 5644.0, 5311.0, 5300.0, 5559.0, 5710.0, 5354.0, 5571.0, 5470.0, 5597.0, 5521.0, 5440.0, 5319.0, 5688.0, 5535.0, 5602.0, 5679.0, 5303.0, 5637.0, 5491.0, 5289.0, 5352.0, 5539.0, 5473.0, 5520.0, 5304.0, 5310.0, 5425.0, 5633.0, 5714.0, 5699.0, 5256.0, 5269.0, 5382.0, 5316.0, 5375.0, 5528.0 (number of hits: 7 )
17	5320	9	1	333	1	5531.0, 5413.0, 5532.0, 5269.0, 5401.0, 5601.0, 5464.0, 5595.0, 5330.0, 5434.0, 5528.0, 5380.0, 5256.0, 5341.0, 5489.0, 5362.0, 5482.0, 5614.0, 5706.0, 5416.0, 5304.0, 5696.0, 5624.0, 5677.0, 5358.0, 5590.0, 5291.0, 5426.0, 5519.0, 5609.0, 5522.0, 5301.0, 5631.0, 5526.0, 5644.0, 5707.0, 5524.0, 5678.0, 5538.0, 5652.0, 5673.0, 5655.0, 5636.0, 5278.0, 5722.0, 5506.0, 5523.0, 5381.0, 5498.0, 5398.0, 5399.0, 5412.0, 5484.0, 5622.0, 5388.0, 5375.0, 5613.0, 5356.0, 5470.0, 5685.0, 5682.0, 5279.0, 5628.0, 5465.0, 5664.0,

						5454.0, 5397.0, 5403.0, 5463.0, 5394.0, 5630.0, 5662.0, 5488.0, 5663.0, 5530.0, 5433.0, 5602.0, 5605.0, 5350.0, 5387.0, 5527.0, 5370.0, 5553.0, 5446.0, 5282.0, 5500.0, 5264.0, 5646.0, 5481.0, 5542.0, 5289.0, 5424.0, 5552.0, 5315.0, 5286.0, 5391.0, 5259.0, 5714.0, 5306.0, 5565.0 (number of hits: 1)
18	5320	9	1	333	1	5555.0, 5613.0, 5329.0, 5339.0, 5274.0, 5320.0, 5252.0, 5261.0, 5487.0, 5620.0, 5250.0, 5434.0, 5409.0, 5553.0, 5362.0, 5481.0, 5469.0, 5512.0, 5623.0, 5454.0, 5405.0, 5557.0, 5460.0, 5504.0, 5550.0, 5407.0, 5588.0, 5704.0, 5595.0, 5389.0, 5390.0, 5489.0, 5358.0, 5482.0, 5291.0, 5370.0, 5395.0, 5283.0, 5667.0, 5706.0, 5637.0, 5376.0, 5384.0, 5513.0, 5485.0, 5305.0, 5430.0, 5676.0, 5354.0, 5675.0, 5687.0, 5436.0, 5425.0, 5483.0, 5350.0, 5463.0, 5439.0, 5602.0, 5532.0, 5348.0, 5456.0, 5427.0, 5634.0, 5279.0, 5589.0, 5580.0, 5498.0, 5565.0, 5256.0, 5377.0, 5716.0, 5451.0, 5677.0, 5669.0, 5340.0, 5330.0, 5302.0, 5285.0, 5392.0, 5717.0, 5269.0, 5402.0, 5441.0, 5678.0, 5581.0, 5647.0, 5347.0, 5404.0, 5307.0, 5577.0, 5452.0, 5315.0, 5304.0, 5268.0, 5610.0, 5355.0, 5661.0, 5316.0, 5491.0, 5336.0 (number of hits: 4)
19	5320	9	1	333	1	5419.0, 5487.0, 5660.0, 5494.0, 5252.0, 5562.0, 5505.0, 5679.0, 5330.0, 5583.0, 5514.0, 5542.0, 5351.0, 5395.0, 5307.0, 5303.0, 5598.0, 5420.0, 5669.0, 5341.0, 5433.0, 5468.0, 5299.0, 5314.0, 5486.0, 5438.0, 5398.0, 5254.0, 5427.0, 5278.0, 5636.0, 5501.0, 5645.0, 5321.0, 5659.0, 5522.0, 5422.0, 5393.0, 5591.0, 5506.0, 5697.0, 5703.0, 5350.0, 5432.0, 5474.0, 5588.0, 5450.0, 5667.0, 5677.0, 5503.0, 5349.0, 5515.0, 5405.0, 5657.0, 5258.0, 5409.0, 5387.0, 5684.0, 5480.0, 5451.0, 5384.0, 5334.0, 5265.0, 5423.0, 5352.0, 5499.0, 5472.0, 5556.0, 5431.0, 5348.0, 5461.0, 5489.0, 5449.0, 5355.0, 5512.0, 5442.0, 5363.0, 5630.0, 5473.0, 5288.0, 5436.0, 5253.0, 5674.0, 5439.0, 5557.0, 5429.0, 5525.0, 5421.0, 5475.0, 5430.0, 5412.0, 5316.0, 5593.0, 5497.0, 5260.0, 5662.0, 5445.0, 5386.0, 5551.0, 5333.0 (number of hits: 3)
20	5320	9	1	333	1	5312.0, 5639.0, 5522.0, 5430.0, 5537.0, 5486.0, 5649.0, 5558.0, 5508.0, 5590.0, 5489.0, 5514.0, 5597.0, 5392.0, 5490.0, 5677.0, 5644.0, 5519.0, 5571.0, 5594.0, 5402.0, 5352.0, 5420.0, 5282.0, 5661.0, 5487.0, 5376.0, 5401.0, 5545.0, 5633.0, 5516.0, 5606.0, 5547.0, 5437.0, 5718.0, 5290.0, 5599.0, 5678.0, 5327.0, 5712.0, 5565.0, 5640.0, 5459.0, 5612.0, 5313.0,

						5440.0, 5638.0, 5478.0, 5351.0, 5467.0, 5602.0, 5529.0, 5548.0, 5331.0, 5370.0, 5332.0, 5455.0, 5587.0, 5438.0, 5274.0, 5520.0, 5622.0, 5505.0, 5360.0, 5557.0, 5388.0, 5588.0, 5610.0, 5339.0, 5287.0, 5471.0, 5630.0, 5299.0, 5510.0, 5591.0, 5573.0, 5709.0, 5262.0, 5477.0, 5293.0, 5553.0, 5693.0, 5256.0, 5484.0, 5424.0, 5445.0, 5447.0, 5330.0, 5336.0, 5338.0, 5400.0, 5690.0, 5568.0, 5417.0, 5466.0, 5552.0, 5532.0, 5389.0, 5680.0, 5716.0 (number of hits: 3)
21	5320	9	1	333	1	5469.0, 5410.0, 5546.0, 5355.0, 5454.0, 5377.0, 5506.0, 5470.0, 5587.0, 5554.0, 5263.0, 5344.0, 5326.0, 5348.0, 5369.0, 5420.0, 5706.0, 5623.0, 5605.0, 5696.0, 5569.0, 5354.0, 5540.0, 5617.0, 5716.0, 5525.0, 5294.0, 5508.0, 5346.0, 5588.0, 5405.0, 5287.0, 5692.0, 5283.0, 5522.0, 5492.0, 5298.0, 5496.0, 5505.0, 5467.0, 5695.0, 5627.0, 5722.0, 5278.0, 5640.0, 5684.0, 5630.0, 5676.0, 5553.0, 5689.0, 5517.0, 5310.0, 5271.0, 5273.0, 5691.0, 5570.0, 5697.0, 5576.0, 5489.0, 5675.0, 5654.0, 5308.0, 5360.0, 5321.0, 5471.0, 5699.0, 5329.0, 5542.0, 5537.0, 5440.0, 5412.0, 5293.0, 5463.0, 5619.0, 5436.0, 5472.0, 5285.0, 5591.0, 5669.0, 5672.0, 5444.0, 5680.0, 5394.0, 5367.0, 5481.0, 5698.0, 5374.0, 5521.0, 5560.0, 5409.0, 5543.0, 5428.0, 5320.0, 5408.0, 5694.0, 5475.0, 5361.0, 5353.0, 5493.0, 5453.0 (number of hits: 5)
22	5320	9	1	333	1	5286.0, 5680.0, 5533.0, 5315.0, 5372.0, 5330.0, 5345.0, 5701.0, 5265.0, 5622.0, 5582.0, 5385.0, 5350.0, 5373.0, 5666.0, 5568.0, 5643.0, 5258.0, 5618.0, 5343.0, 5493.0, 5556.0, 5706.0, 5548.0, 5635.0, 5331.0, 5496.0, 5367.0, 5456.0, 5645.0, 5623.0, 5335.0, 5485.0, 5346.0, 5637.0, 5312.0, 5426.0, 5462.0, 5433.0, 5250.0, 5661.0, 5297.0, 5591.0, 5683.0, 5428.0, 5300.0, 5543.0, 5601.0, 5253.0, 5509.0, 5257.0, 5627.0, 5291.0, 5332.0, 5500.0, 5259.0, 5365.0, 5621.0, 5463.0, 5642.0, 5284.0, 5567.0, 5378.0, 5641.0, 5273.0, 5318.0, 5254.0, 5443.0, 5614.0, 5283.0, 5620.0, 5324.0, 5636.0, 5449.0, 5619.0, 5289.0, 5570.0, 5687.0, 5675.0, 5523.0, 5545.0, 5508.0, 5306.0, 5421.0, 5267.0, 5589.0, 5475.0, 5655.0, 5279.0, 5440.0, 5501.0, 5349.0, 5677.0, 5671.0, 5709.0, 5403.0, 5562.0, 5639.0, 5445.0, 5322.0 (number of hits: 5)
23	5320	9	1	333	1	5415.0, 5457.0, 5542.0, 5640.0, 5409.0, 5491.0, 5363.0, 5499.0, 5544.0, 5635.0, 5311.0, 5360.0, 5515.0, 5364.0, 5271.0, 5372.0, 5540.0, 5554.0, 5618.0, 5567.0, 5431.0, 5701.0, 5718.0, 5282.0, 5547.0,

						5670.0, 5548.0, 5624.0, 5569.0, 5482.0, 5303.0, 5265.0, 5706.0, 5561.0, 5426.0, 5639.0, 5537.0, 5717.0, 5451.0, 5375.0, 5348.0, 5369.0, 5697.0, 5512.0, 5427.0, 5503.0, 5448.0, 5589.0, 5654.0, 5350.0, 5323.0, 5329.0, 5269.0, 5518.0, 5293.0, 5419.0, 5553.0, 5354.0, 5362.0, 5477.0, 5564.0, 5645.0, 5315.0, 5557.0, 5449.0, 5678.0, 5296.0, 5423.0, 5657.0, 5580.0, 5516.0, 5486.0, 5421.0, 5524.0, 5509.0, 5442.0, 5281.0, 5273.0, 5332.0, 5597.0, 5379.0, 5622.0, 5539.0, 5253.0, 5359.0, 5446.0, 5349.0, 5651.0, 5700.0, 5479.0, 5573.0, 5668.0, 5595.0, 5497.0, 5338.0, 5615.0, 5712.0, 5341.0, 5677.0, 5290.0 (number of hits: 4)
24	5320	9	1	333	1	5645.0, 5476.0, 5566.0, 5650.0, 5719.0, 5473.0, 5396.0, 5303.0, 5570.0, 5260.0, 5373.0, 5284.0, 5643.0, 5330.0, 5338.0, 5602.0, 5524.0, 5649.0, 5271.0, 5298.0, 5350.0, 5593.0, 5515.0, 5672.0, 5315.0, 5596.0, 5335.0, 5478.0, 5584.0, 5285.0, 5388.0, 5464.0, 5518.0, 5541.0, 5412.0, 5658.0, 5495.0, 5703.0, 5466.0, 5690.0, 5445.0, 5494.0, 5424.0, 5291.0, 5600.0, 5289.0, 5543.0, 5441.0, 5428.0, 5317.0, 5387.0, 5714.0, 5490.0, 5423.0, 5578.0, 5701.0, 5451.0, 5646.0, 5724.0, 5673.0, 5626.0, 5661.0, 5710.0, 5642.0, 5438.0, 5511.0, 5486.0, 5526.0, 5364.0, 5630.0, 5306.0, 5561.0, 5508.0, 5648.0, 5652.0, 5273.0, 5268.0, 5361.0, 5484.0, 5313.0, 5654.0, 5357.0, 5616.0, 5553.0, 5573.0, 5706.0, 5283.0, 5352.0, 5677.0, 5492.0, 5386.0, 5272.0, 5454.0, 5693.0, 5270.0, 5328.0, 5453.0, 5562.0, 5504.0, 5538.0 (number of hits: 4)
25	5320	9	1	333	1	5431.0, 5478.0, 5584.0, 5268.0, 5479.0, 5498.0, 5446.0, 5435.0, 5673.0, 5544.0, 5534.0, 5588.0, 5707.0, 5547.0, 5620.0, 5504.0, 5361.0, 5658.0, 5290.0, 5257.0, 5250.0, 5610.0, 5421.0, 5440.0, 5645.0, 5399.0, 5690.0, 5463.0, 5286.0, 5275.0, 5671.0, 5326.0, 5397.0, 5531.0, 5265.0, 5647.0, 5703.0, 5594.0, 5426.0, 5618.0, 5609.0, 5383.0, 5480.0, 5409.0, 5713.0, 5587.0, 5701.0, 5686.0, 5315.0, 5348.0, 5608.0, 5299.0, 5722.0, 5283.0, 5303.0, 5356.0, 5385.0, 5371.0, 5391.0, 5291.0, 5708.0, 5379.0, 5496.0, 5629.0, 5710.0, 5614.0, 5691.0, 5580.0, 5630.0, 5389.0, 5667.0, 5568.0, 5490.0, 5465.0, 5417.0, 5634.0, 5641.0, 5503.0, 5434.0, 5487.0, 5335.0, 5557.0, 5473.0, 5360.0, 5717.0, 5296.0, 5492.0, 5293.0, 5410.0, 5353.0, 5280.0, 5483.0, 5662.0, 5695.0, 5539.0, 5654.0, 5262.0, 5386.0, 5416.0, 5330.0 (number of hits: 2)
26	5320	9	1	333	1	5543.0, 5563.0, 5572.0, 5435.0, 5534.0,



						5555.0, 5275.0, 5717.0, 5282.0, 5618.0, 5522.0, 5346.0, 5416.0, 5274.0, 5403.0, 5406.0, 5483.0, 5343.0, 5711.0, 5468.0, 5556.0, 5481.0, 5626.0, 5471.0, 5446.0, 5392.0, 5350.0, 5584.0, 5344.0, 5269.0, 5306.0, 5348.0, 5540.0, 5658.0, 5578.0, 5369.0, 5573.0, 5490.0, 5566.0, 5688.0, 5665.0, 5291.0, 5284.0, 5667.0, 5645.0, 5362.0, 5594.0, 5670.0, 5337.0, 5630.0, 5308.0, 5276.0, 5320.0, 5707.0, 5699.0, 5448.0, 5599.0, 5265.0, 5533.0, 5554.0, 5264.0, 5380.0, 5427.0, 5349.0, 5359.0, 5488.0, 5482.0, 5635.0, 5374.0, 5480.0, 5476.0, 5532.0, 5608.0, 5450.0, 5342.0, 5506.0, 5720.0, 5267.0, 5703.0, 5332.0, 5360.0, 5598.0, 5384.0, 5304.0, 5376.0, 5262.0, 5340.0, 5421.0, 5277.0, 5623.0, 5456.0, 5371.0, 5574.0, 5613.0, 5510.0, 5278.0, 5511.0, 5557.0, 5518.0, 5604.0 (number of hits: 1)
27	5320	9	1	333	1	5694.0, 5644.0, 5250.0, 5367.0, 5664.0, 5391.0, 5333.0, 5517.0, 5267.0, 5261.0, 5337.0, 5304.0, 5324.0, 5496.0, 5623.0, 5468.0, 5434.0, 5388.0, 5443.0, 5335.0, 5404.0, 5688.0, 5474.0, 5538.0, 5715.0, 5410.0, 5596.0, 5645.0, 5605.0, 5657.0, 5554.0, 5257.0, 5674.0, 5432.0, 5614.0, 5606.0, 5413.0, 5457.0, 5449.0, 5373.0, 5583.0, 5353.0, 5259.0, 5284.0, 5285.0, 5521.0, 5363.0, 5281.0, 5299.0, 5405.0, 5393.0, 5648.0, 5621.0, 5497.0, 5580.0, 5506.0, 5660.0, 5560.0, 5394.0, 5315.0, 5600.0, 5595.0, 5347.0, 5655.0, 5372.0, 5632.0, 5551.0, 5616.0, 5392.0, 5659.0, 5382.0, 5518.0, 5476.0, 5403.0, 5535.0, 5429.0, 5637.0, 5465.0, 5675.0, 5516.0, 5546.0, 5320.0, 5467.0, 5707.0, 5602.0, 5612.0, 5368.0, 5282.0, 5310.0, 5440.0, 5666.0, 5477.0, 5433.0, 5665.0, 5507.0, 5423.0, 5346.0, 5544.0, 5417.0, 5635.0 (number of hits: 4)
28	5320	9	1	333	1	5585.0, 5338.0, 5491.0, 5610.0, 5690.0, 5551.0, 5404.0, 5310.0, 5392.0, 5556.0, 5319.0, 5271.0, 5284.0, 5409.0, 5533.0, 5644.0, 5354.0, 5619.0, 5620.0, 5642.0, 5496.0, 5687.0, 5548.0, 5454.0, 5406.0, 5289.0, 5449.0, 5387.0, 5250.0, 5647.0, 5378.0, 5625.0, 5591.0, 5458.0, 5575.0, 5544.0, 5501.0, 5568.0, 5395.0, 5648.0, 5302.0, 5724.0, 5416.0, 5677.0, 5472.0, 5624.0, 5701.0, 5295.0, 5367.0, 5384.0, 5702.0, 5477.0, 5522.0, 5716.0, 5552.0, 5265.0, 5422.0, 5515.0, 5555.0, 5692.0, 5638.0, 5578.0, 5448.0, 5430.0, 5637.0, 5602.0, 5705.0, 5399.0, 5641.0, 5314.0, 5509.0, 5294.0, 5654.0, 5516.0, 5455.0, 5649.0, 5440.0, 5446.0, 5264.0, 5308.0, 5561.0, 5526.0, 5499.0, 5669.0, 5383.0, 5300.0, 5711.0, 5379.0, 5612.0, 5327.0,

						5299.0, 5270.0, 5653.0, 5375.0, 5670.0, 5461.0, 5674.0, 5557.0, 5288.0, 5304.0 (number of hits: 4)
29	5320	9	1	333	1	5422.0, 5662.0, 5552.0, 5560.0, 5505.0, 5616.0, 5576.0, 5588.0, 5711.0, 5304.0, 5688.0, 5473.0, 5273.0, 5494.0, 5429.0, 5415.0, 5378.0, 5488.0, 5647.0, 5274.0, 5328.0, 5471.0, 5697.0, 5264.0, 5294.0, 5366.0, 5423.0, 5614.0, 5650.0, 5438.0, 5632.0, 5485.0, 5476.0, 5721.0, 5282.0, 5424.0, 5457.0, 5427.0, 5458.0, 5543.0, 5608.0, 5504.0, 5613.0, 5507.0, 5474.0, 5557.0, 5529.0, 5483.0, 5579.0, 5503.0, 5596.0, 5453.0, 5531.0, 5720.0, 5359.0, 5388.0, 5549.0, 5477.0, 5276.0, 5604.0, 5279.0, 5305.0, 5544.0, 5425.0, 5668.0, 5376.0, 5472.0, 5558.0, 5524.0, 5393.0, 5569.0, 5570.0, 5517.0, 5259.0, 5469.0, 5577.0, 5680.0, 5285.0, 5606.0, 5610.0, 5356.0, 5256.0, 5439.0, 5327.0, 5541.0, 5406.0, 5586.0, 5542.0, 5628.0, 5640.0, 5260.0, 5681.0, 5555.0, 5353.0, 5644.0, 5303.0, 5534.0, 5617.0, 5710.0, 5653.0 (number of hits: 2)
30	5320	9	1	333	1	5671.0, 5264.0, 5661.0, 5528.0, 5584.0, 5620.0, 5344.0, 5603.0, 5611.0, 5405.0, 5388.0, 5329.0, 5370.0, 5643.0, 5340.0, 5306.0, 5501.0, 5336.0, 5408.0, 5286.0, 5349.0, 5712.0, 5649.0, 5282.0, 5390.0, 5269.0, 5463.0, 5554.0, 5274.0, 5550.0, 5311.0, 5505.0, 5622.0, 5259.0, 5285.0, 5305.0, 5279.0, 5693.0, 5273.0, 5532.0, 5417.0, 5662.0, 5659.0, 5435.0, 5445.0, 5688.0, 5667.0, 5538.0, 5427.0, 5317.0, 5265.0, 5607.0, 5591.0, 5270.0, 5337.0, 5448.0, 5396.0, 5703.0, 5651.0, 5522.0, 5345.0, 5617.0, 5478.0, 5621.0, 5599.0, 5432.0, 5561.0, 5361.0, 5594.0, 5469.0, 5668.0, 5664.0, 5717.0, 5513.0, 5589.0, 5557.0, 5307.0, 5365.0, 5376.0, 5714.0, 5489.0, 5453.0, 5644.0, 5483.0, 5567.0, 5558.0, 5331.0, 5431.0, 5467.0, 5290.0, 5559.0, 5350.0, 5255.0, 5386.0, 5430.0, 5419.0, 5363.0, 5496.0, 5715.0, 5515.0 (number of hits: 3)

\*\*\*\*\* END OF REPORT \*\*\*\*\*