



**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**

| Revision Number | Report Number   | Description of Revision | Date of Revision |
|-----------------|-----------------|-------------------------|------------------|
| 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)<br>5270-5310 MHz(802.11n ht40/ac vht40/ax he40)<br>5290 MHz(802.11ac vht80/ax he80)<br>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<br>802.11ax:<br>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<br>TENDA<br>TECHNOLOGY<br>CO.,LTD. | Dipole       | 50                    | 5250~5350MHz    | 5.97 dBi     |
| 5G Chain 1    |                                             | Dipole       | 50                    | 5250~5350MHz    | 5.97 dBi     |
| 5G Chain 2    |                                             | 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:

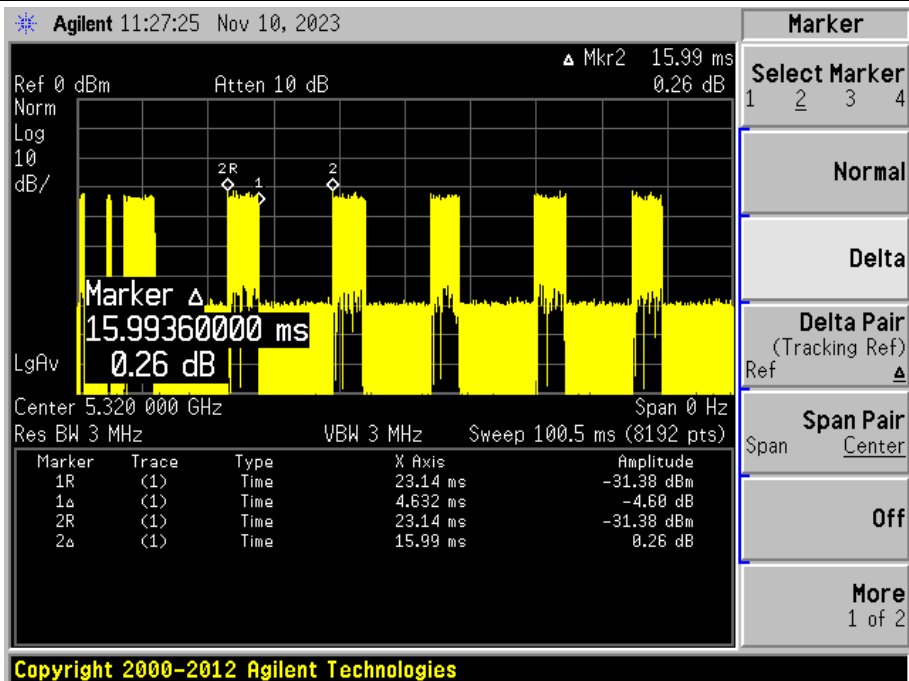
| Accessory Description | Manufacturer                                         | Model         | Parameters                                                 |
|-----------------------|------------------------------------------------------|---------------|------------------------------------------------------------|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

## 1.2 Description of Test Configuration

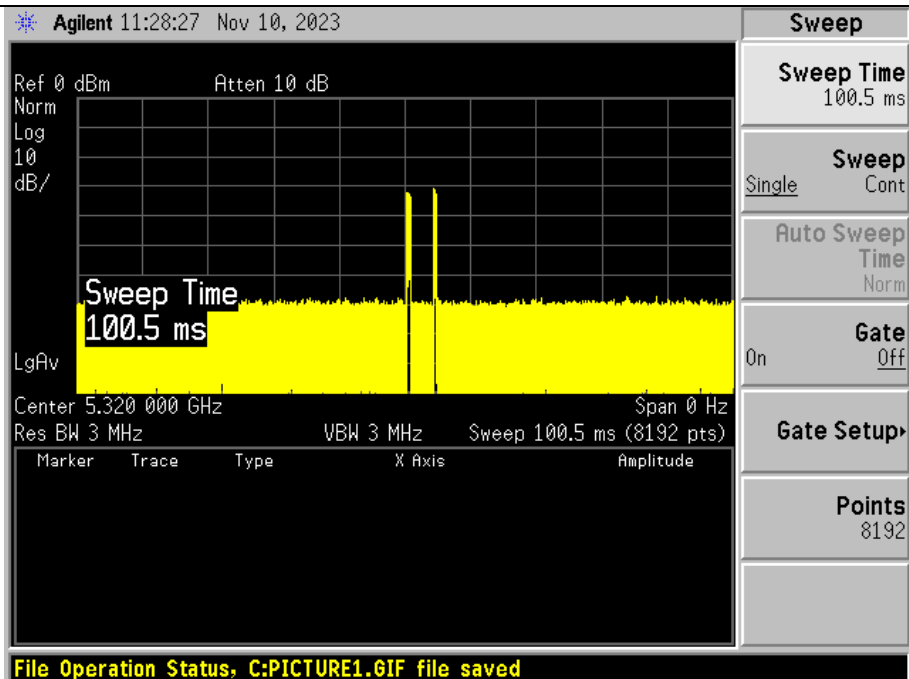
### 1.2.1 EUT Operation Condition:

|                                                                                                                                                                                                                                                                                                                           |                                                                                                    |                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------|
| <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: |                                                                                                    |                  |

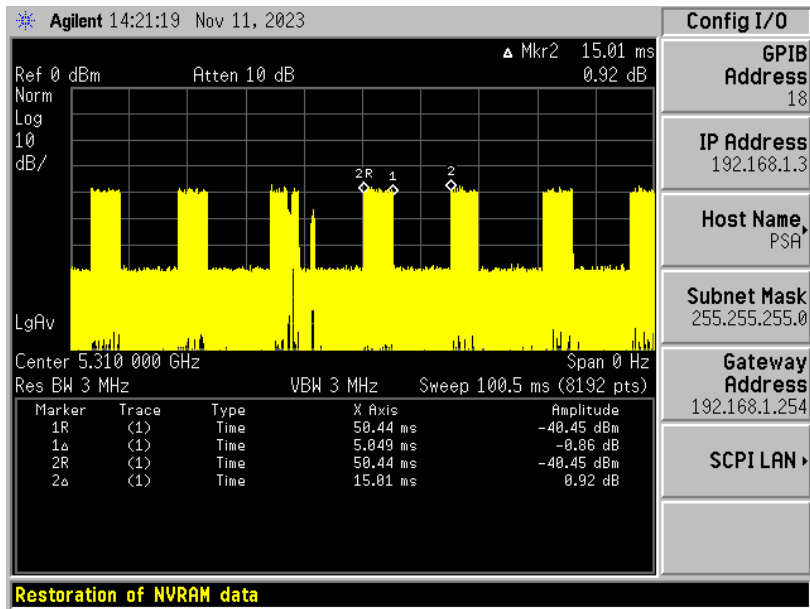
20MHz mode Traffic  
Duty Cycle:  
 $4.632 \times 6 / 100.5 = 27.65\%$



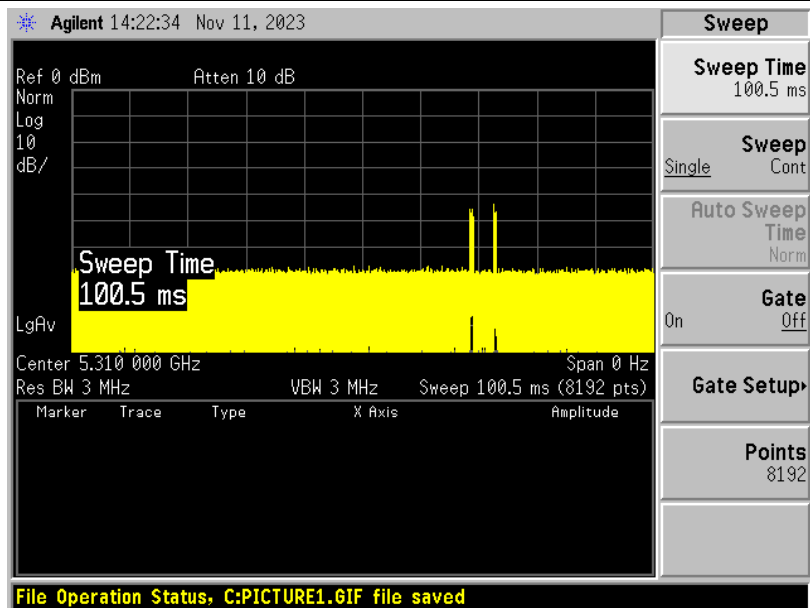
20MHz mode Without  
Traffic



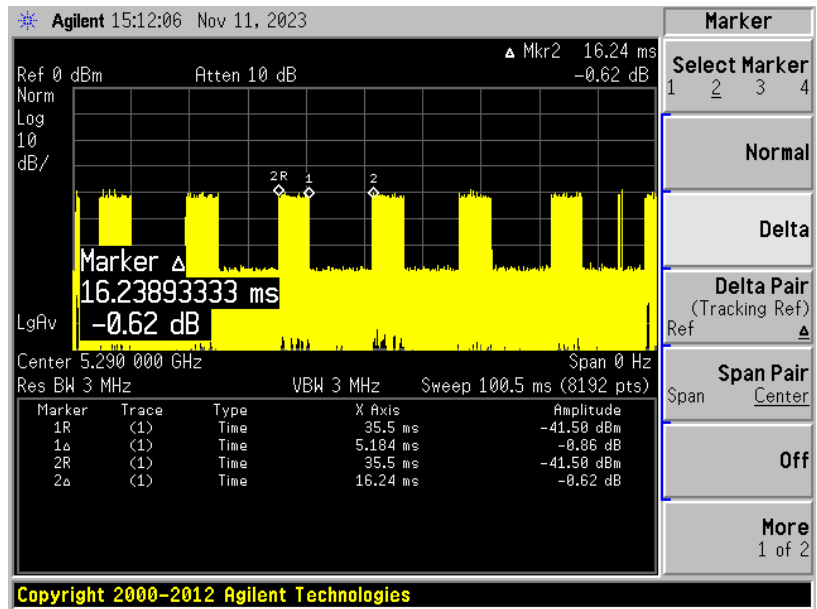
40MHz mode Traffic  
Duty Cycle:  
 $5.049 \times 7 / 100.5 = 35.17\%$



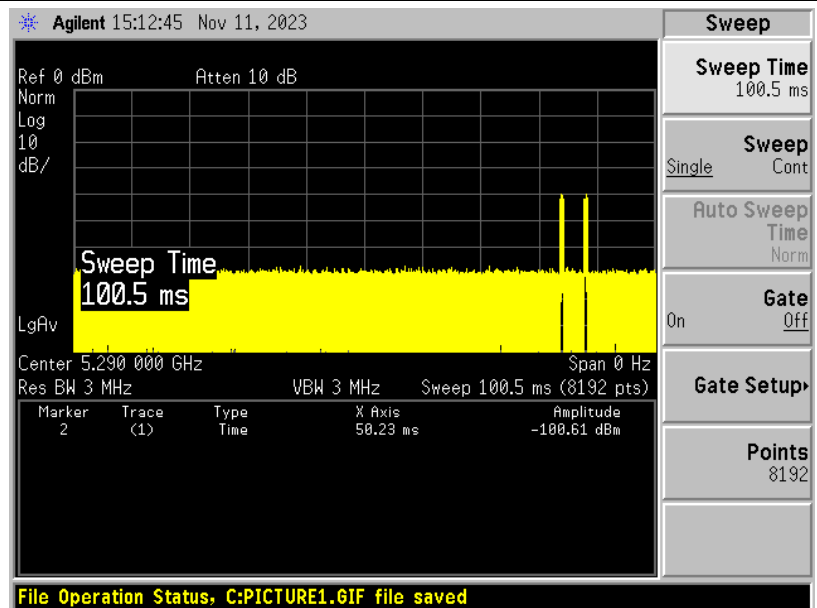
40MHz mode Without  
Traffic



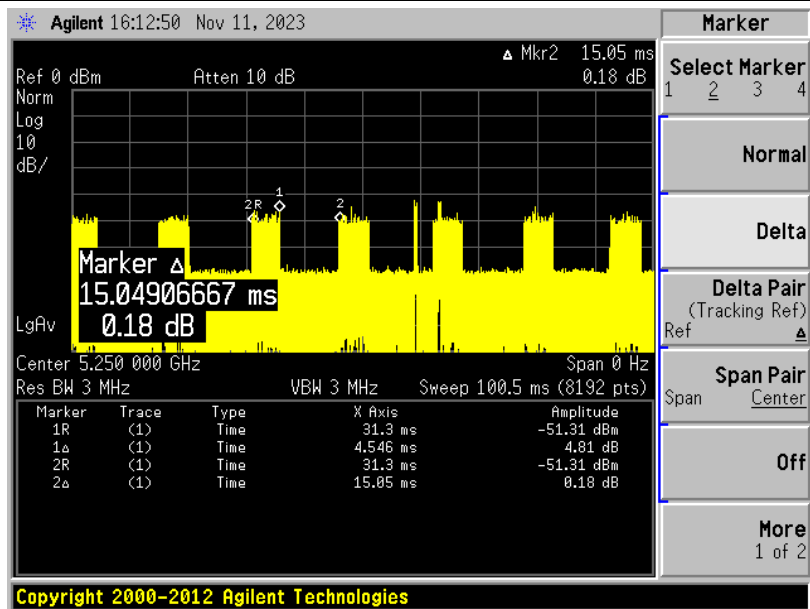
80MHz mode Traffic  
Duty Cycle:  
 $5.184 \times 6 / 100.5 = 30.95\%$



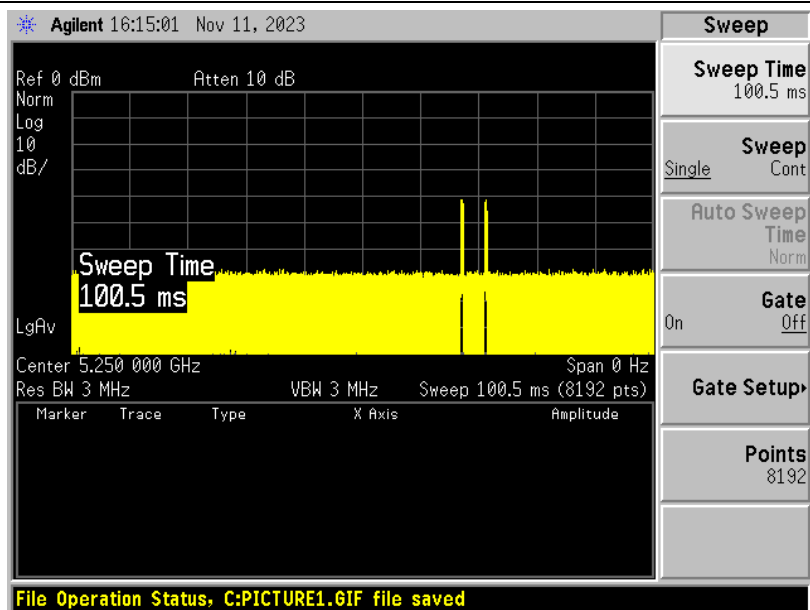
80MHz mode Without  
Traffic



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



160MHz mode Without  
Traffic

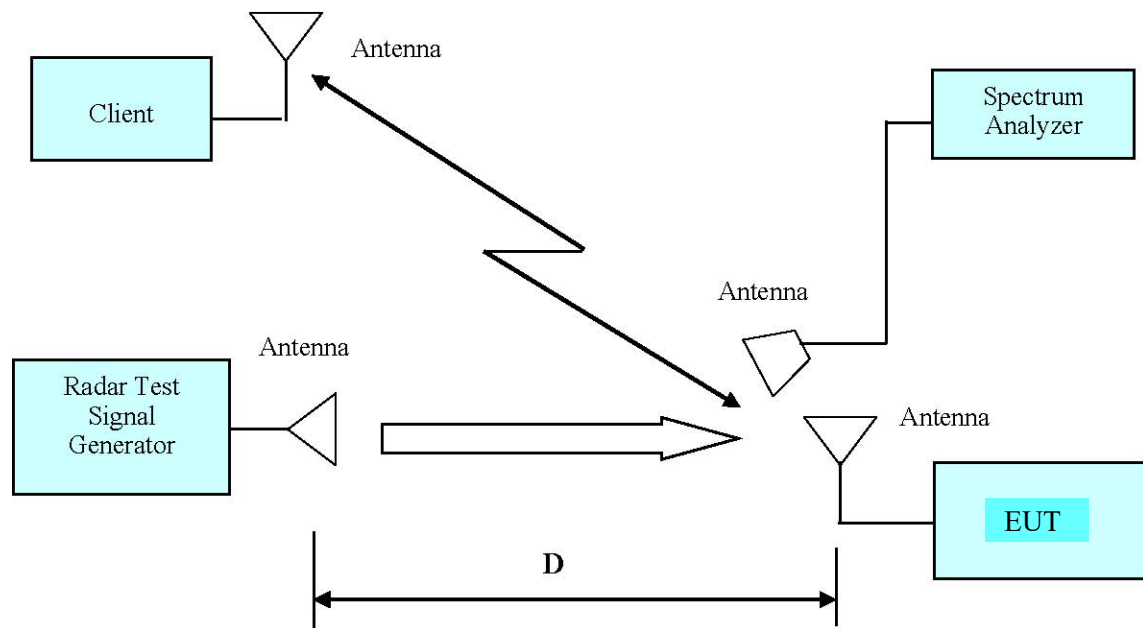


**1.2.2 Support Equipment List and Details**

| 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<br>(See Notes 1, 2, and 3) |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| EIRP $\geq$ 200 milliwatt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -64 dBm                          |
| EIRP < 200 milliwatt and<br>power spectral density < 10 dBm/MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -62 dBm                          |
| EIRP < 200 milliwatt that do not meet the power spectral<br>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>Note3:</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<br>See Note 1.                                                                                             |
| <i>Channel Closing Transmission Time</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 200 milliseconds + an<br>aggregate of 60<br>milliseconds over<br>remaining 10 second<br>period.<br>See Notes 1 and 2. |
| <i>U-NII Detection Bandwidth</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Minimum 100% of the U-<br>NII 99% transmission<br>power bandwidth. See<br>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**

| <b>Pulse Repetition Frequency Number</b> | <b>Pulse Repetition Frequency (Pulses Per Second)</b> | <b>Pulse Repetition Interval (Microseconds)</b> |
|------------------------------------------|-------------------------------------------------------|-------------------------------------------------|
| 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.

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

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

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

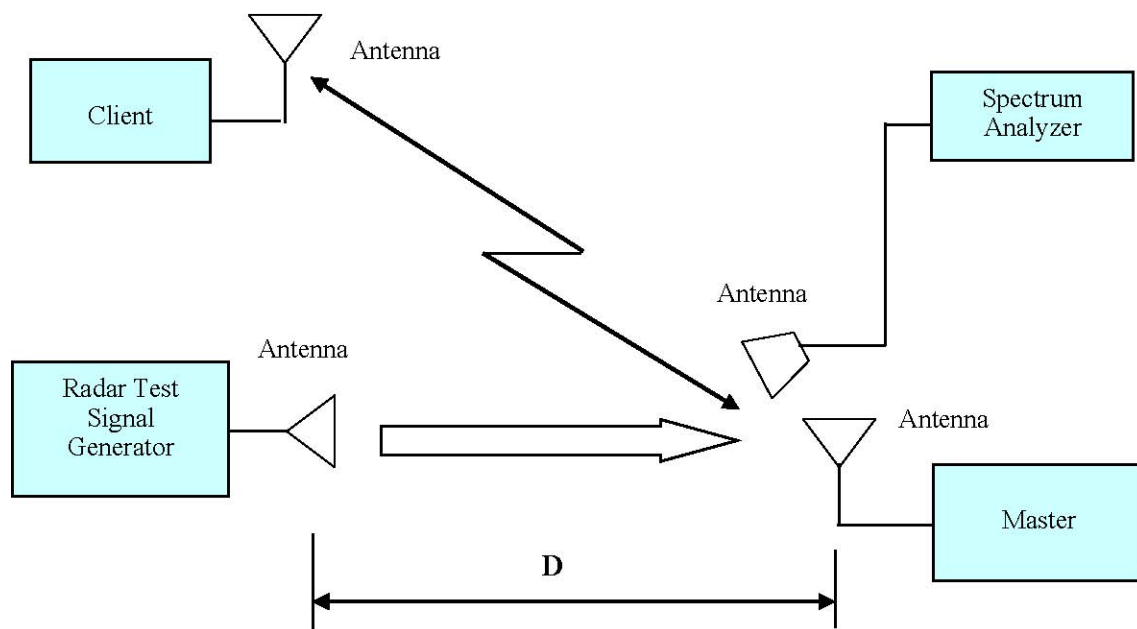
**Table 7 – Frequency Hopping Radar Test Waveform**

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

### 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 diction 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:<br>(°C) | 26.1~25.7 | Relative<br>Humidity:<br>(%) | 48~42 | ATM Pressure:<br>(kPa) | 101.1~101 |
|----------------------|-----------|------------------------------|-------|------------------------|-----------|

**Test Equipment List and Details:**

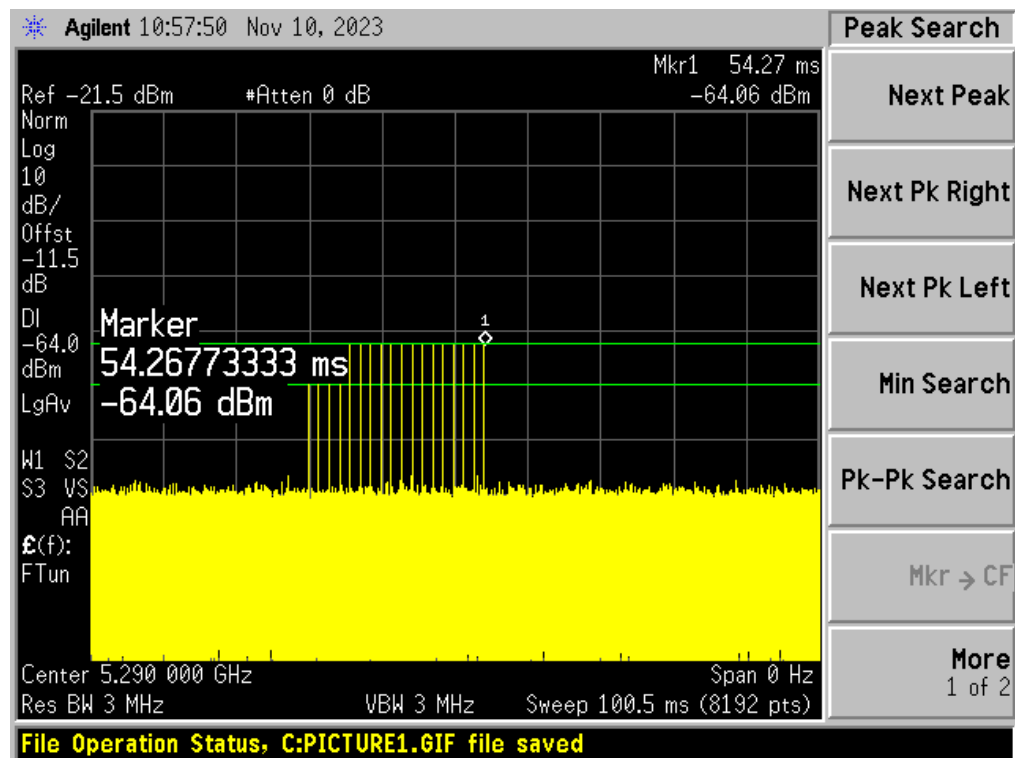
| Manufacturer         | Description                     | Model    | Serial Number | Calibration Date | Calibration Due Date |
|----------------------|---------------------------------|----------|---------------|------------------|----------------------|
| National Instruments | NI PXI-1042 8-Slot chassis      | 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).

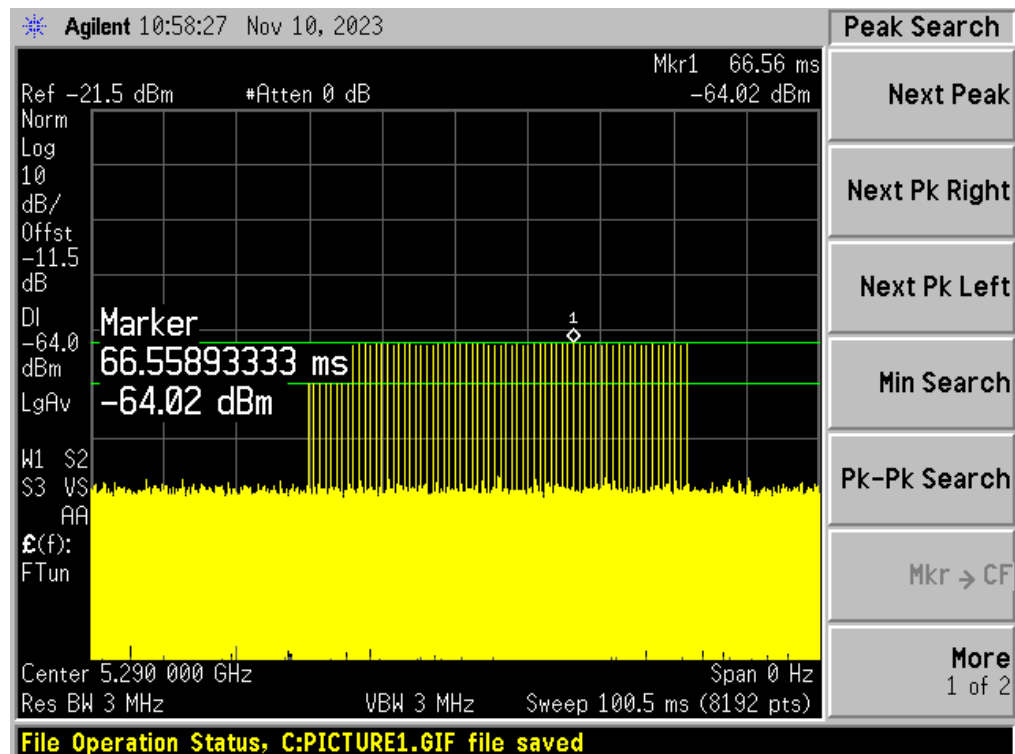
#### 4.1 Radar Waveform Calibration

5290MHz:

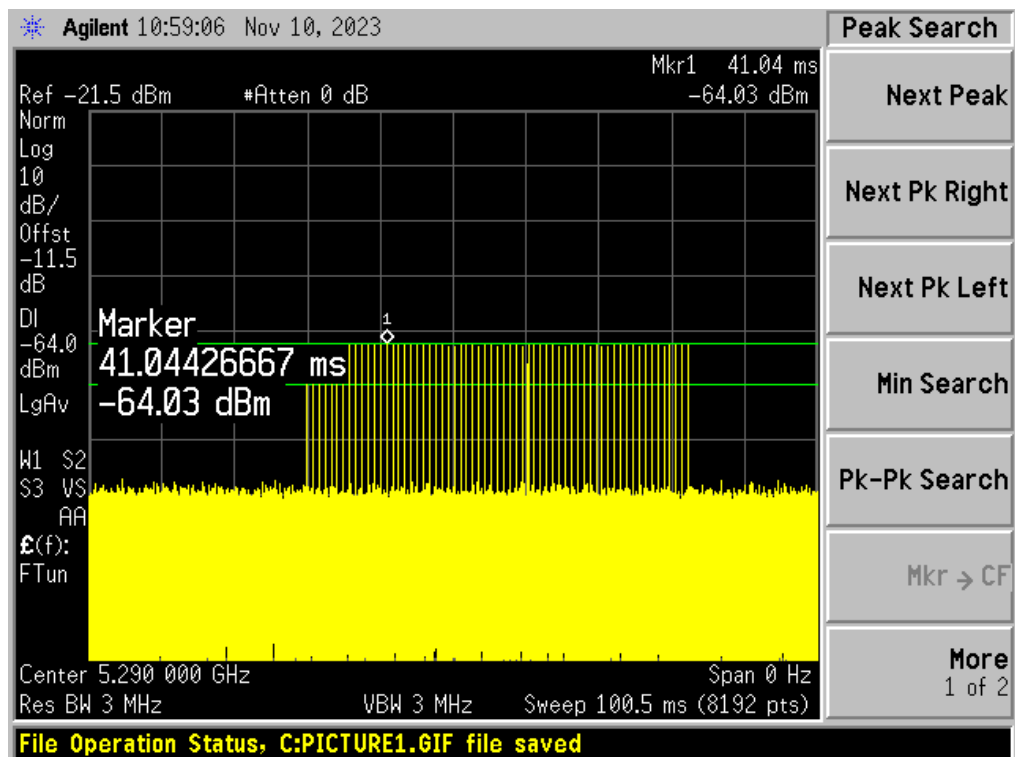
##### Radar Type 0



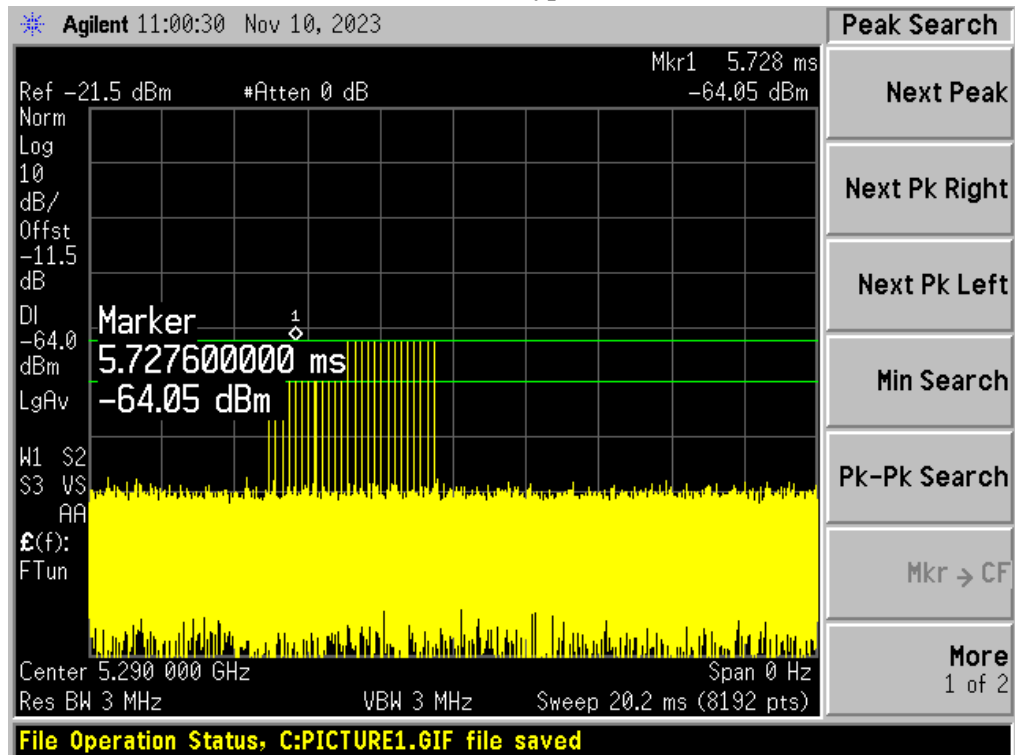
##### Radar Type 1A



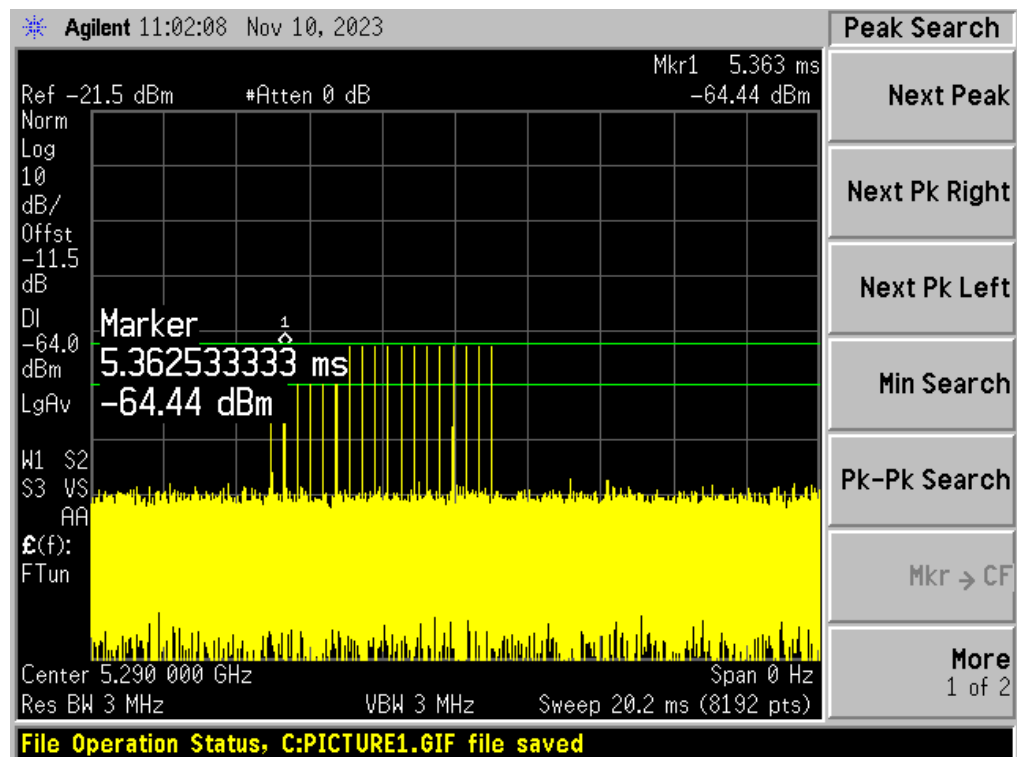
## Radar Type 1B



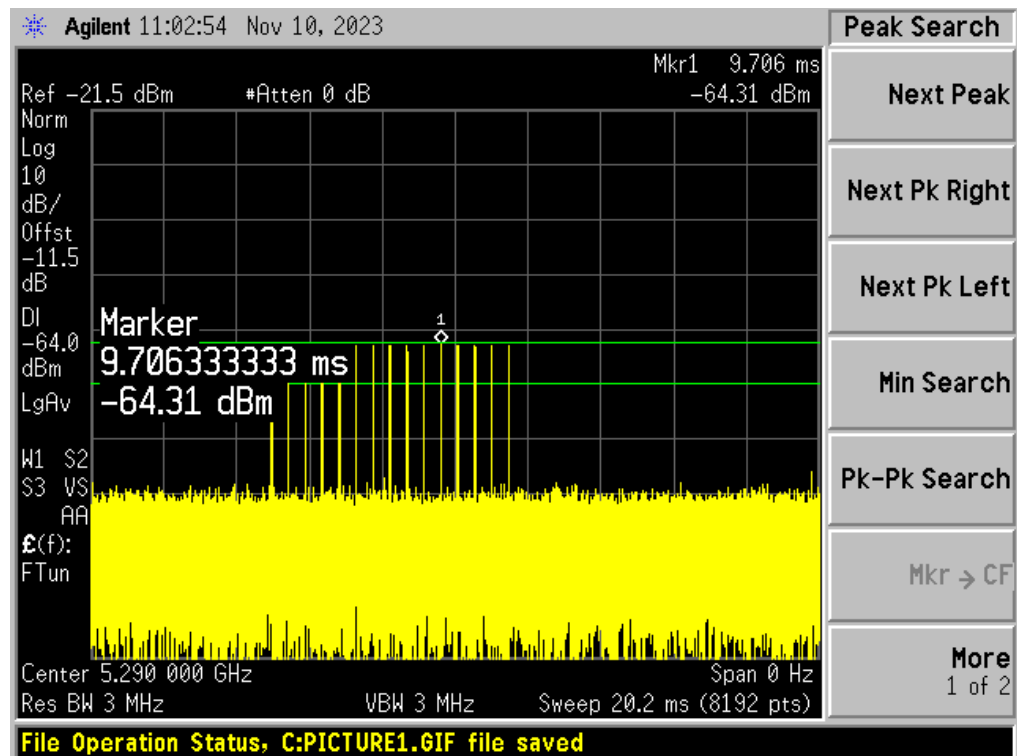
## Radar Type 2



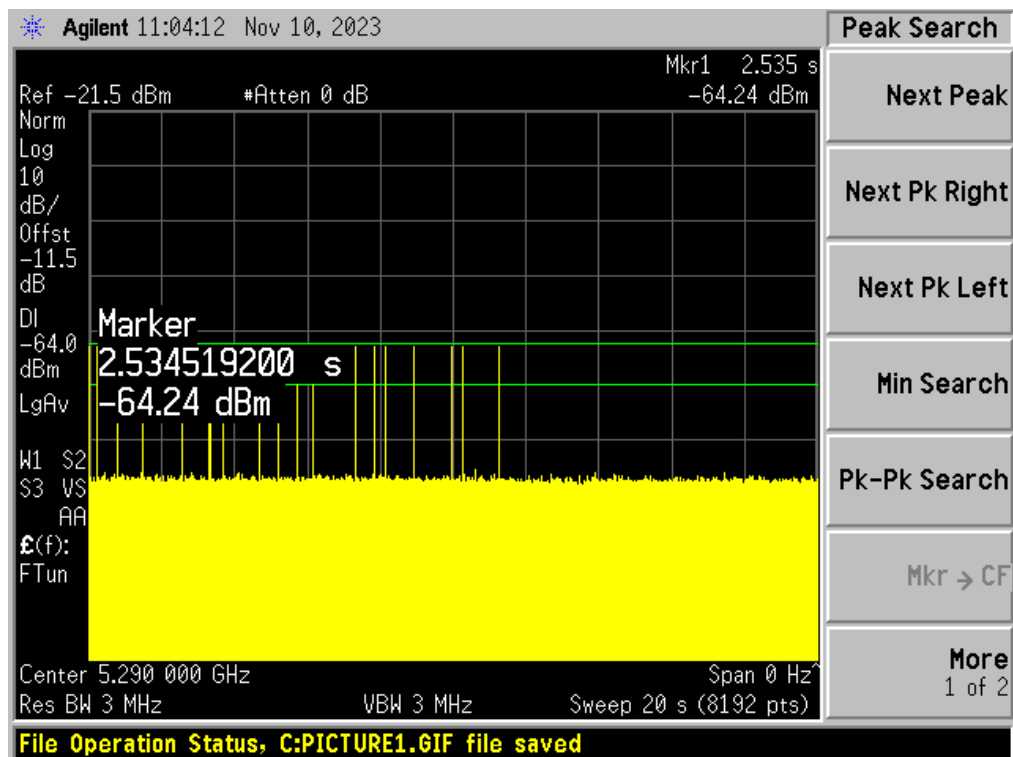
## Radar Type 3



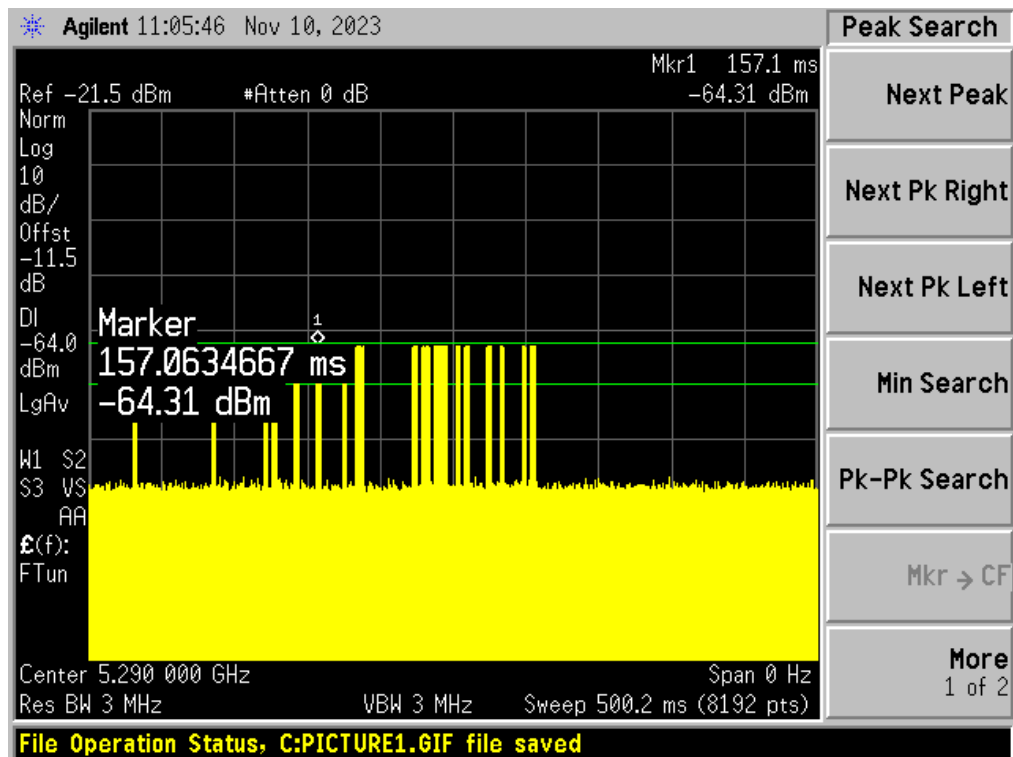
## Radar Type 4



## 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

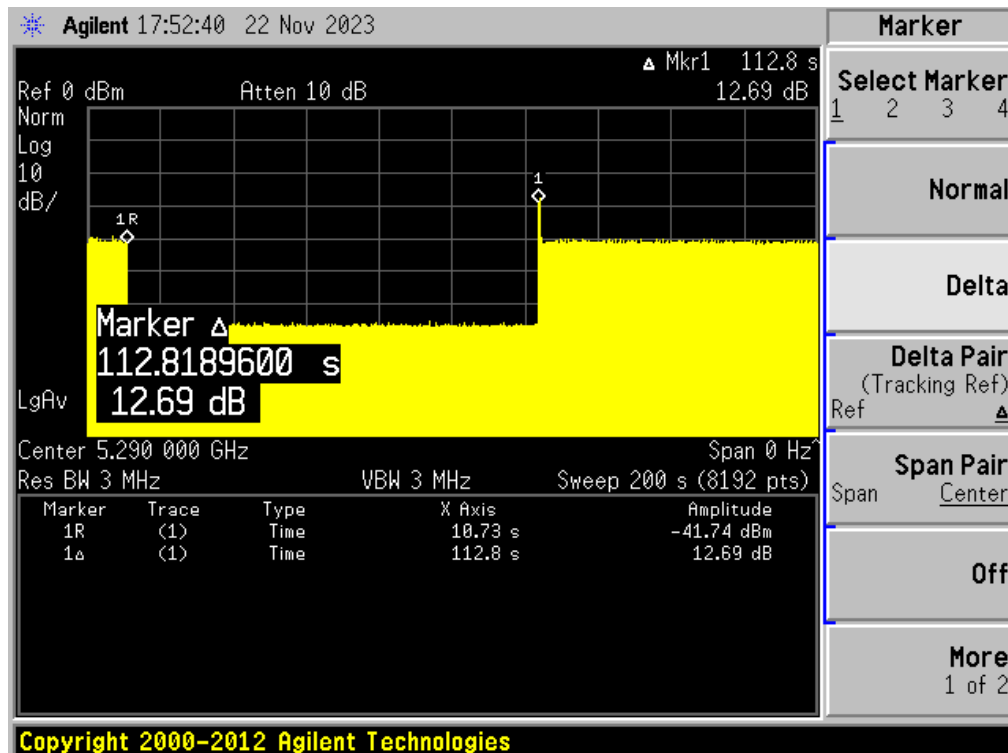
| Test Frequency<br>(MHz) | EUT initial Power-up cycle<br>(Second) |
|-------------------------|----------------------------------------|
| 5290                    | 52.8                                   |

### 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                                         |

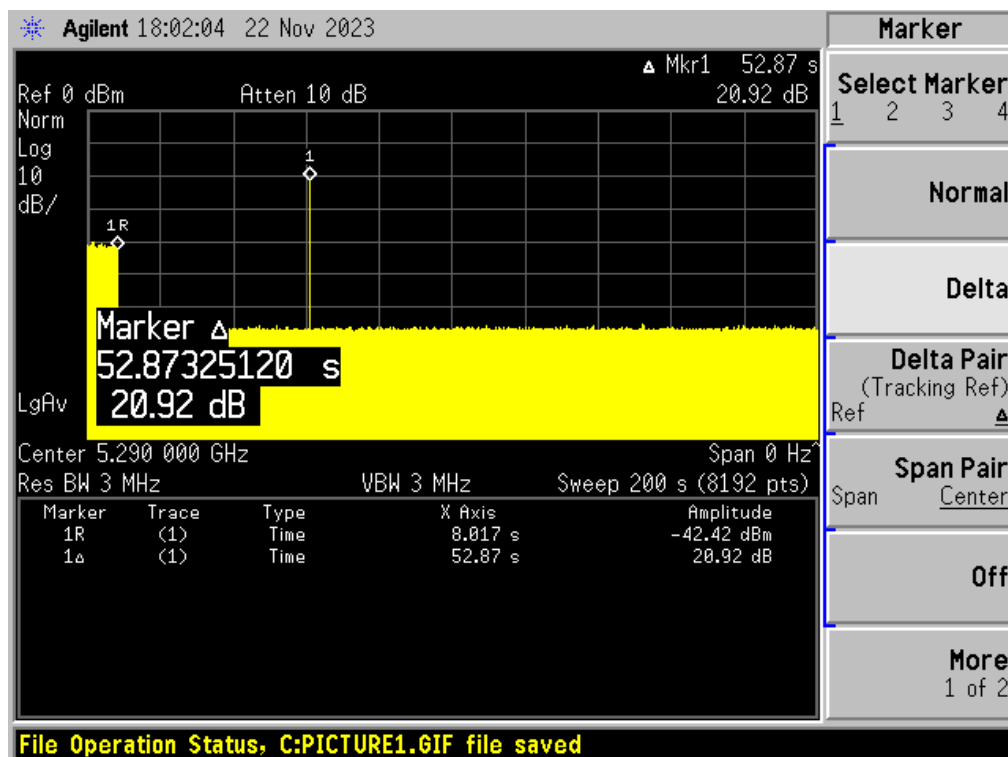
Please refer to the following plots.

## Plot of without Radar signal applied

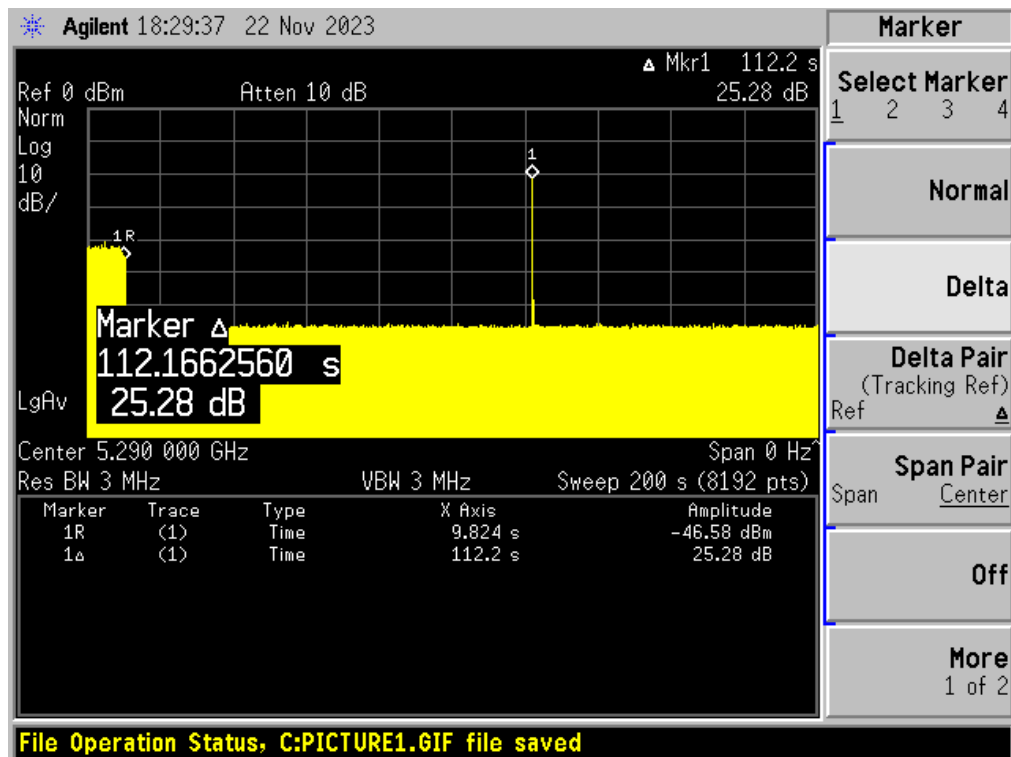


Note: The power-up cycle is 52.8 seconds.

## 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<br>(Radar Frequency is 5290 MHz) | 160             | Type 0     | Compliant |

Please refer to the following tables and plots.

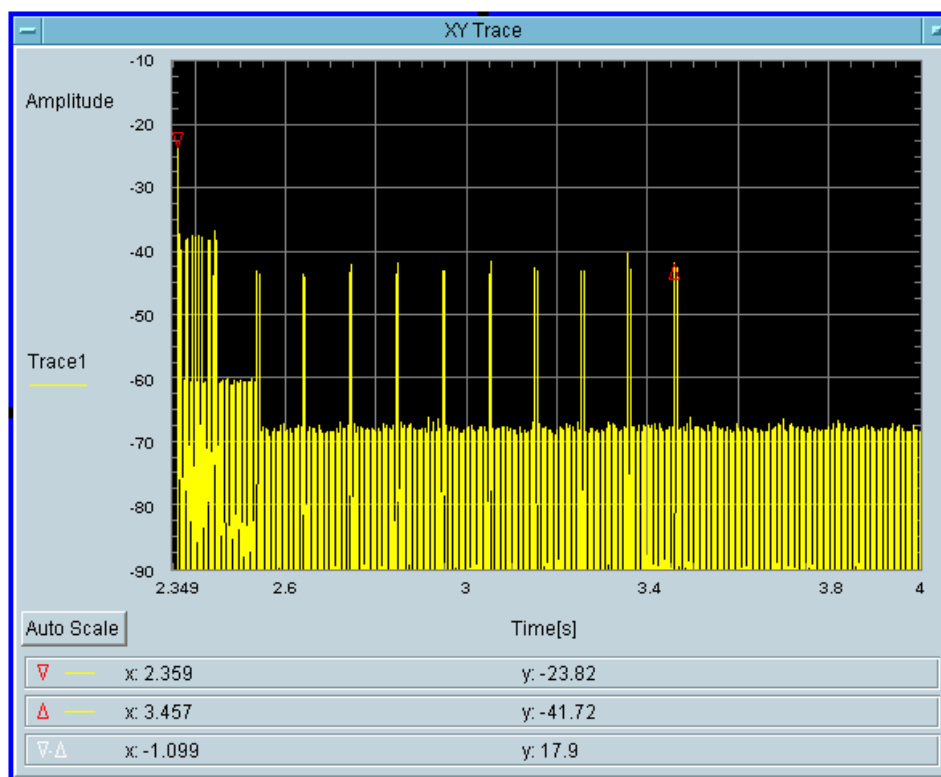
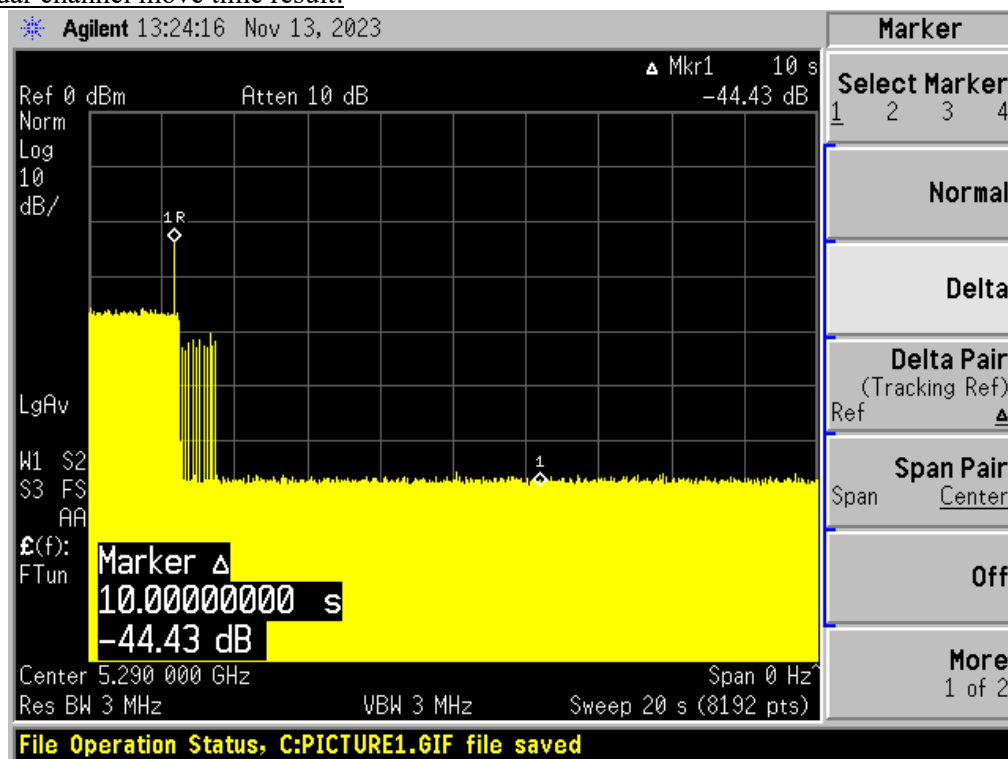
#### 4.3.3 Results:

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

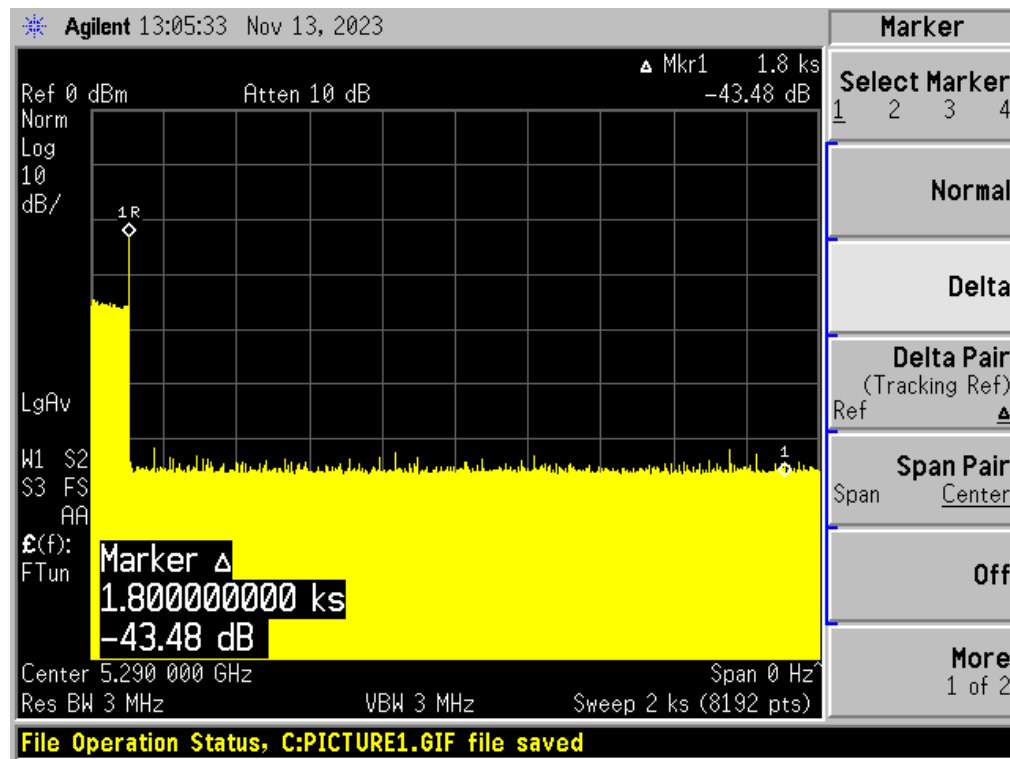
Measure the EUT for more than 30 minutes following the channel close/move time to very that the EUT does not resume any transmissions on this channel. Provide one plot to demonstrate no transmission on the channel for the non-occupancy period (30 minutes observation time)

### 4.4.2 Test Result

| Test Frequency (MHz)                  | Bandwidth (MHz) | Spectrum Analyzer Display         |
|---------------------------------------|-----------------|-----------------------------------|
| 5250<br>(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:

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

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( $F_L$ )                                                  | 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( $F_H$ )                                                  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1            | 100 %              |
| Detection Bandwidth = $F_H - F_L = 5340 - 5300 = 40\text{MHz}$ |   |   |   |   |   |   |   |   |   |              |                    |
| EUT 99% BW = 19.24 MHz                                         |   |   |   |   |   |   |   |   |   | Result: Pass |                    |

| 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</b> = F <sub>H</sub> – F <sub>L</sub> = 5345-5280 = 65 MHz |   |   |   |   |   |   |   |   |   |                     |                    |
| <b>EUT 99% BW</b> = 38.16MHz;                                                     |   |   |   |   |   |   |   |   |   | <b>Result:</b> Pass |                    |

| 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 %              |
| Detection Bandwidth = F <sub>H</sub> - F <sub>L</sub> = 5350 - 5250 = 100 MHz |   |   |   |   |   |   |   |   |   |    |                    |
| EUT 99% BW = 77.60 MHz;                                                       |   |   |   |   |   |   |   |   |   |    | Result: 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 %              |
| Detection Bandwidth = F <sub>H</sub> – F <sub>L</sub> = 5350-5250=100 MHz                    |   |   |   |   |   |   |   |   |   |    |                    |
| EUT 99% BW = 157 MHz;<br>(Detection Bandwidth Covered all bandwidth fall into 5250-5350 MHz) |   |   |   |   |   |   |   |   |   |    |                    |
|                                                                                              |   |   |   |   |   |   |   |   |   |    | Result: Pass       |

## 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> |
|--------------------------------|------------------------------|----------------------|------------------|------------------|
| <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 (Type 1 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:

**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**

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

| <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            | 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 (μS) | Pulse 1-2 spacing(μS) | Pulse 2-3 spacing(μS) | 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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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**

| <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            | 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**

| <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            | 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 (μS) | Pulse 1-2 spacing(μS) | Pulse 2-3 spacing(μS) | 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 (μS) | Pulse 1-2 spacing(μS) | Pulse 2-3 spacing(μS) | 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 (μS) | Pulse 1-2 spacing(μS) | Pulse 2-3 spacing(μS) | 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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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,<br>5501.0, 5584.0, 5605.0, 5416.0, 5263.0<br>(number of hits: 9 )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 29 | 5310 | 9 | 1 | 333 | 1 | 5577.0, 5489.0, 5605.0, 5335.0, 5296.0,<br>5476.0, 5611.0, 5719.0, 5568.0, 5431.0,<br>5669.0, 5262.0, 5537.0, 5321.0, 5493.0,<br>5663.0, 5303.0, 5385.0, 5509.0, 5618.0,<br>5608.0, 5458.0, 5633.0, 5572.0, 5451.0,<br>5529.0, 5688.0, 5607.0, 5477.0, 5398.0,<br>5447.0, 5500.0, 5301.0, 5479.0, 5673.0,<br>5436.0, 5528.0, 5612.0, 5503.0, 5311.0,<br>5364.0, 5490.0, 5320.0, 5524.0, 5678.0,<br>5412.0, 5657.0, 5440.0, 5300.0, 5286.0,<br>5628.0, 5287.0, 5645.0, 5492.0, 5548.0,<br>5291.0, 5462.0, 5355.0, 5289.0, 5258.0,<br>5441.0, 5588.0, 5304.0, 5635.0, 5494.0,<br>5266.0, 5337.0, 5267.0, 5260.0, 5386.0,<br>5421.0, 5341.0, 5624.0, 5507.0, 5351.0,<br>5356.0, 5420.0, 5392.0, 5558.0, 5644.0,<br>5328.0, 5652.0, 5521.0, 5339.0, 5536.0,<br>5692.0, 5713.0, 5556.0, 5574.0, 5662.0,<br>5668.0, 5409.0, 5510.0, 5604.0, 5639.0,<br>5393.0, 5402.0, 5488.0, 5468.0, 5496.0<br>(number of hits: 10 ) |
| 30 | 5310 | 9 | 1 | 333 | 1 | 5583.0, 5636.0, 5592.0, 5345.0, 5562.0,<br>5659.0, 5336.0, 5278.0, 5329.0, 5316.0,<br>5262.0, 5293.0, 5392.0, 5468.0, 5502.0,<br>5464.0, 5300.0, 5654.0, 5553.0, 5613.0,<br>5273.0, 5532.0, 5400.0, 5551.0, 5436.0,<br>5616.0, 5459.0, 5649.0, 5590.0, 5408.0,<br>5420.0, 5364.0, 5585.0, 5281.0, 5568.0,<br>5518.0, 5496.0, 5515.0, 5689.0, 5272.0,<br>5438.0, 5713.0, 5697.0, 5520.0, 5339.0,<br>5380.0, 5324.0, 5320.0, 5377.0, 5544.0,<br>5266.0, 5680.0, 5290.0, 5619.0, 5447.0,<br>5672.0, 5621.0, 5344.0, 5285.0, 5602.0,<br>5530.0, 5540.0, 5335.0, 5703.0, 5269.0,<br>5581.0, 5554.0, 5455.0, 5539.0, 5576.0,<br>5270.0, 5490.0, 5491.0, 5561.0, 5712.0,<br>5635.0, 5714.0, 5677.0, 5274.0, 5291.0,<br>5451.0, 5595.0, 5382.0, 5298.0, 5646.0,<br>5446.0, 5668.0, 5410.0, 5342.0, 5306.0,<br>5432.0, 5567.0, 5556.0, 5474.0, 5563.0,<br>5534.0, 5528.0, 5356.0, 5517.0, 5648.0<br>(number of hits: 10 ) |

**20MHz**

| <b>Radar<br/>SignalType</b>      | <b>Waveform/Trial<br/>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<br/>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**

| <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            | 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**

| <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            | 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 (μS) | Pulse 1-2 spacing(μS) | Pulse 2-3 spacing(μS) | 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 (μS) | Pulse 1-2 spacing(μS) | Pulse 2-3 spacing(μS) | 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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(number of hits: 3 ) |

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