



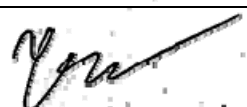
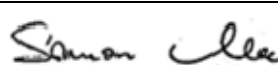
FCC PART 15.407
ISED C RSS-247, ISSUE 2, FEBRUARY 2017
DYNAMIC FREQUENCY SELECTION
TEST REPORT

For

Ruckus Wireless, Inc.

350 West Java Dr.
Sunnyvale, CA 94089, USA

FCC ID: S9GH550
IC: 5912A-H550

Report Type: Original Report	Product Type: Access Point
Prepared By: Tri Pham Associate Test Engineer	
Report Number: R2007201-04	
Report Date: 2021-02-09	
Reviewed By: Simon Ma RF Supervisor	
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Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. This report **must not** be used by the customer to claim product certification, approval, or endorsement by A2LA* or any agency of the Federal Government.

* This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "*" (Rev 1.0)

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	R2007201-04	Original Report	2021-02-09

1 General Description

1.1 Product Description for Equipment under Test (EUT)

This test report was prepared on behalf of *Ruckus Networks, an ARRIS co.*, and their product model: *H550*, *FCC ID: S9GH550*, *IC: 5912A-H550*, or the “EUT” as referred to in this report. The EUT is an Access Point with 2.4GHz/5GHz Wifi, BLE and ZigBee capabilities.

EUT SW version: 116.0.0.0.16110238

1.2 Objective

This report was prepared on behalf of *Ruckus Networks, an ARRIS co.*, in accordance with FCC CFR47 §15.407 (h), RSS247 Issue 2 and KDB: 905462 D02 UNII DFS Compliance Procedures New Rules v02

The objective was to determine compliance with FCC rules for Channel Closing Transmission Time, and Channel Move time in Client Mode without Radar detection function

1.3 Related Submittal(s)/Grant(s)

Equipment Class: DTS, FCC ID: S9GH550, IC: 5912A-H550

1.4 Test Methodology

FCC CFR 47 Part2, Part15.407 (h)

KDB: 905462 D02 UNII DFS Compliance Procedures New Rules v02

COMPLIANCE MEASUREMENT PROCEDURES FOR UNLICENSED-NATIONAL INFORMATION INFRASTRUCTURE DEVICES OPERATING IN THE 5250-5350 MHz AND 5470-5725 MHz BANDS INCORPORATING DYNAMIC FREQUENCY SELECTION

1.5 Test Facility Registrations

BACLs test facilities that are used to perform Radiated and Conducted Emissions tests are currently recognized by the Federal Communications Commission as Accredited with NIST Designation Number US1129.

BACL’s test facilities that are used to perform Radiated and Conducted Emissions tests are currently registered with Industry Canada under Registration Numbers: 3062A-1, 3062A-2, and 3062A-3.

BACL is a Chinese Taipei Bureau of Standards Metrology and Inspection (BSMI) validated Conformity Assessment Body (CAB), under Annex B, Phase I Procedures of the APEC Mutual Recognition Arrangement (MRA). BACL’s BSMI Lab Code Number is: SL2-IN-E-1002R

BACL’s test facilities that are used to perform AC Line Conducted Emissions, Telecommunications Line Conducted Emissions, Radiated Emissions from 30 MHz to 1 GHz, and Radiated Emissions from 1 GHz to 6 GHz are currently recognized as Accredited in accordance with the Voluntary Control Council for Interference [VCCI] Article 15 procedures under Registration Number A-0027.

1.6 Test Facility Accreditations

Bay Area Compliance Laboratories Corp. (BACL) is:

A- An independent, 3rd-Party, Commercial Test Laboratory accredited to ISO/IEC 17025:2005 by A2LA (Test Laboratory Accreditation Certificate Number 3297.02), in the fields of: Electromagnetic Compatibility and Telecommunications. Unless noted by an Asterisk (*) in the Compliance Matrix (See Section 3 of this Test Report), BACL's ISO/IEC 17025:2005 Scope of Accreditation includes all of the Test Method Standards and/or the Product Family Standards detailed in this Test Report..

BACL's ISO/IEC 17025:2005 Scope of Accreditation includes a comprehensive suite of EMC Emissions, EMC Immunity, Radio, RF Exposure, Safety and wireline Telecommunications test methods applicable to a wide range of product categories. These product categories include Central Office Telecommunications Equipment [including NEBS - Network Equipment Building Systems], Unlicensed and Licensed Wireless and RF devices, Information Technology Equipment (ITE); Telecommunications Terminal Equipment (TTE); Medical Electrical Equipment; Industrial, Scientific and Medical Test Equipment; Professional Audio and Video Equipment; Industrial and Scientific Instruments and Laboratory Apparatus; Cable Distribution Systems, and Energy Efficient Lighting.

B- A Product Certification Body accredited to ISO/IEC 17065:2012 by A2LA (Product Certification Body Accreditation Certificate Number 3297.03) to certify

- For the USA (Federal Communications Commission):

- 1- All Unlicensed radio frequency devices within FCC Scopes A1, A2, A3, and A4;
- 2- All Licensed radio frequency devices within FCC Scopes B1, B2, B3, and B4;
- 3- All Telephone Terminal Equipment within FCC Scope C.

- For the Canada (Industry Canada):

- 1 All Scope 1-Licence-Exempt Radio Frequency Devices;
- 2 All Scope 2-Licensed Personal Mobile Radio Services;
- 3 All Scope 3-Licensed General Mobile & Fixed Radio Services;
- 4 All Scope 4-Licensed Maritime & Aviation Radio Services;
- 5 All Scope 5-Licensed Fixed Microwave Radio Services
- 6 All Broadcasting Technical Standards (BETS) in the Category I Equipment Standards List.

- For Singapore (Info-Communications Development Authority (IDA)):

- 1 All Line Terminal Equipment: All Technical Specifications for Line Terminal Equipment – Table 1 of IDA MRA Recognition Scheme: 2011, Annex 2
2. All Radio-Communication Equipment: All Technical Specifications for Radio-Communication Equipment – Table 2 of IDA MRA Recognition Scheme: 2011, Annex 2

- For the Hong Kong Special Administrative Region:

- 1 All Radio Equipment, per KHCA 10XX-series Specifications;
- 2 All GMDSS Marine Radio Equipment, per HKCA 12XX-series Specifications;
- 3 All Fixed Network Equipment, per HKCA 20XX-series Specifications.

- For Japan:

- 1 MIC Telecommunication Business Law (Terminal Equipment):
 - All Scope A1 - Terminal Equipment for the Purpose of Calls;
 - All Scope A2 - Other Terminal Equipment
- 2 Radio Law (Radio Equipment):
 - All Scope B1 - Specified Radio Equipment specified in Article 38-2-2, paragraph 1, item 1 of the Radio Law
 - All Scope B2 - Specified Radio Equipment specified in Article 38-2-2, paragraph 1, item 2 of the Radio Law
 - All Scope B3 - Specified Radio Equipment specified in Article 38-2-2, paragraph 1, item 3 of the Radio Law

C- A Product Certification Body accredited to ISO/IEC 17065:2012 by A2LA (Product Certification Body Accreditation Certificate Number 3279.01) to certify Products to USA's Environmental Protection Agency (EPA) ENERGY STAR Product Specifications for:

- 1 Electronics and Office Equipment:
 - for Telephony (ver. 3.0)
 - for Audio/Video (ver. 3.0)
 - for Battery Charging Systems (ver. 1.1)
 - for Set-top Boxes & Cable Boxes (ver. 4.1)
 - for Televisions (ver. 6.1)
 - for Computers (ver. 6.0)
 - for Displays (ver. 6.0)
 - for Imaging Equipment (ver. 2.0)
 - for Computer Servers (ver. 2.0)
- 2 Commercial Food Service Equipment
 - for Commercial Dishwashers (ver. 2.0)
 - for Commercial Ice Machines (ver. 2.0)
 - for Commercial Ovens (ver. 2.1)
 - for Commercial Refrigerators and Freezers
- 3 Lighting Products
 - For Decorative Light Strings (ver. 1.5)
 - For Luminaires (including sub-components) and Lamps (ver. 1.2)
 - For Compact Fluorescent Lamps (CFLs) (ver. 4.3)
 - For Integral LED Lamps (ver. 1.4)
- 4 Heating, Ventilation, and AC Products
 - for Residential Ceiling Fans (ver. 3.0)
 - for Residential Ventilating Fans (ver. 3.2)
- 5 Other
 - For Water Coolers (ver. 3.0)

D- A NIST Designated Phase-I and Phase-II Conformity Assessment Body (CAB) for the following economies and regulatory authorities under the terms of the stated MRAs/Treaties:

- Australia: ACMA (Australian Communication and Media Authority) – APEC Tel MRA -Phase I;
- Canada: (Innovation, Science and Economic development Canada - ISED) Foreign Certification Body – FCB – APEC Tel MRA -Phase I & Phase II;
- Chinese Taipei (Republic of China – Taiwan):
 - o BSMI (Bureau of Standards, Metrology and Inspection) APEC Tel MRA -Phase I;
 - o NCC (National Communications Commission) APEC Tel MRA -Phase I;
- European Union:
 - o EMC Directive 2014/30/EU US-EU EMC & Telecom MRA CAB (NB)
 - o Radio Equipment (RE) Directive 2014/53/EU US-EU EMC & Telecom MRA CAB (NB)
 - o Low Voltage Directive (LVD) 2014/35/EU
- Hong Kong Special Administrative Region: (Office of the Telecommunications Authority – OFTA) APEC Tel MRA -Phase I & Phase II
- Israel – US-Israel MRA Phase I
- Republic of Korea (Ministry of Communications - Radio Research Laboratory) APEC Tel MRA -Phase I
- Singapore: (Infocomm Media Development Authority - IMDA) APEC Tel MRA -Phase I & Phase II;
- Japan: VCCI - Voluntary Control Council for Interference US-Japan Telecom Treaty VCCI Side Letter-
- USA:
 - o ENERGY STAR Recognized Test Laboratory – US EPA
 - o Telecommunications Certification Body (TCB) – US FCC;
 - o Nationally Recognized Test Laboratory (NRTL) – US OSHA

Vietnam: APEC Tel MRA -Phase I;

2 EUT Test Configuration

2.1 Justification

The EUT was configured for testing according to FCC Part 15.407(h), RSS 247 Issue 2 and KDB: 905462 D02 UNII DFS Compliance Procedures New Rules v02

2.2 EUT Exercise Software

The test software used was *Putty* provided by *Rucks, Inc.*, the software is compliant with the standard requirements being tested against.

2.3 Equipment Modifications

N/A

2.4 Local Support Equipment

Manufacturer	Description	Model
Dell	Laptop	Latitude D630
ASUS	Laptop	-

2.5 Interface Ports and Cables

Cable Description	Length (m)	To	From
USB Cable	2 m	Laptop	EUT
Ethernet Cable	2 m	POE	Laptop
Ethernet Cable	5 m	POE	Laptop

3 Summary of Test Results

The following result table represents the list of measurements required under the CFR47 §47 Part15.407 (h), and KDB: 905462 D02 UNII DFS Compliance Procedures New Rules v02.

Items	Description of Test	Results
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

4 Applicable Standards

4.1 DFS Requirement

FCC CFR47 §15.407 (h), RSS-247 Issue 2 and 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)
Non-Occupancy Period	Yes	Not Required	Yes
DFS Detection Threshold	Yes	Not Required	Yes
Channel Availability Check Time	Yes	Not Required	Not Required
U-NII Detection Bandwidth	Yes	Not Required	Yes

Table 2: Applicability of DFS requirements during normal operation

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

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

Table 3: Interference Threshold values, Master or Client incorporating In-Service Monitoring

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

Table 4: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the UNII 99% transmission power bandwidth. See Note 3.
Note 1: <i>Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.</i> Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions. Note 3: During the <i>U-NII Detection Bandwidth</i> detection test, radar type 0 is used and for each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.	

Table 5: Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (Microseconds)	PRI (Microseconds)	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	$\text{Roundup}\left(\left(\frac{1}{360}\right) \cdot \left(\frac{19 \cdot 10^6}{\text{PRI}_{\text{usec}}}\right)\right)$	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
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					

Table 6: Long Pulse Radar Test Signal

Radar Type	Bursts	Chirp Width (MHz)	PRI (usec)	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

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

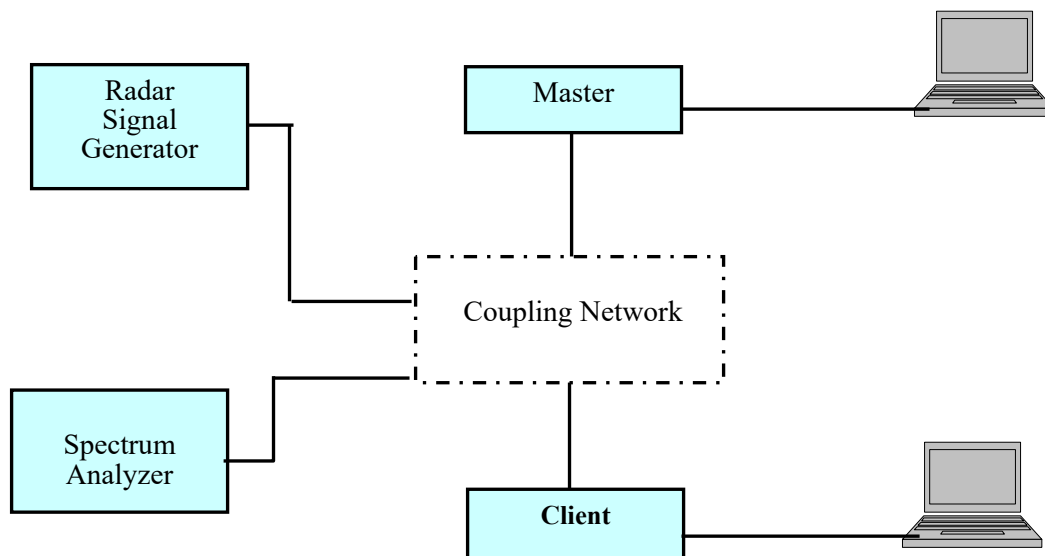
Table 7: Frequency Hopping Radar Test Signal

Radar Type	Pulse Width (usec)	PRI (usec)	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

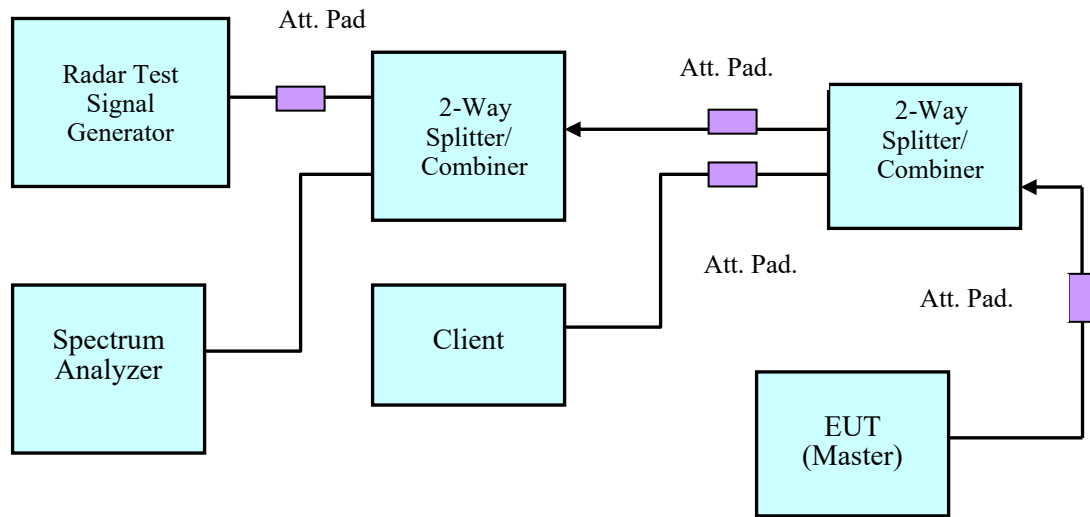
4.2 DFS Measurement System

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

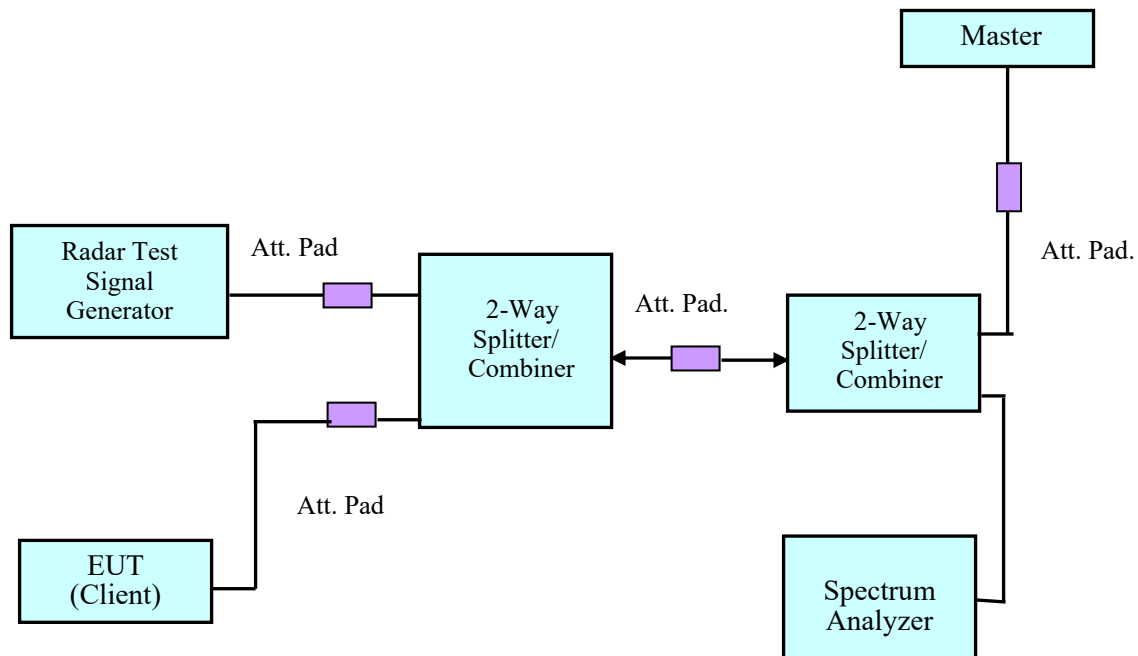
4.3 System Block Diagram



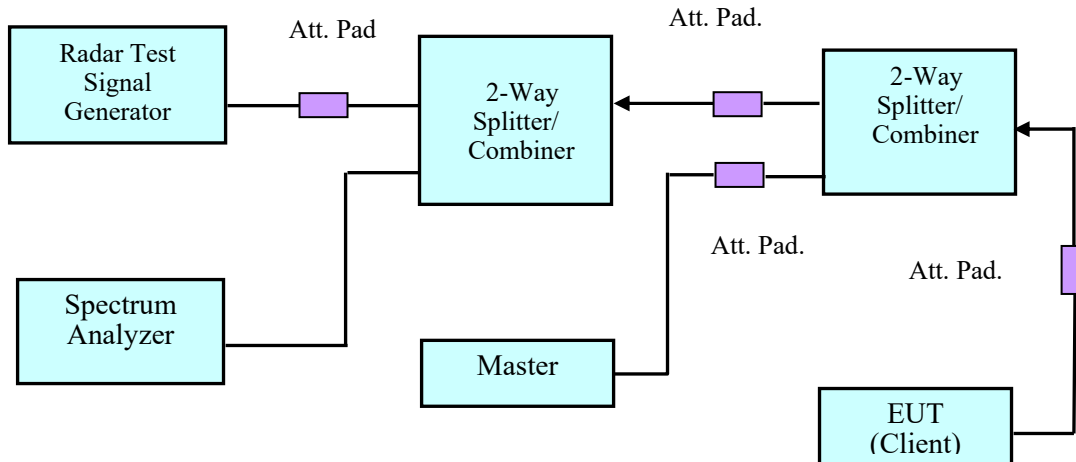
4.4 Conducted Method



Setup for Master with injection at the Master

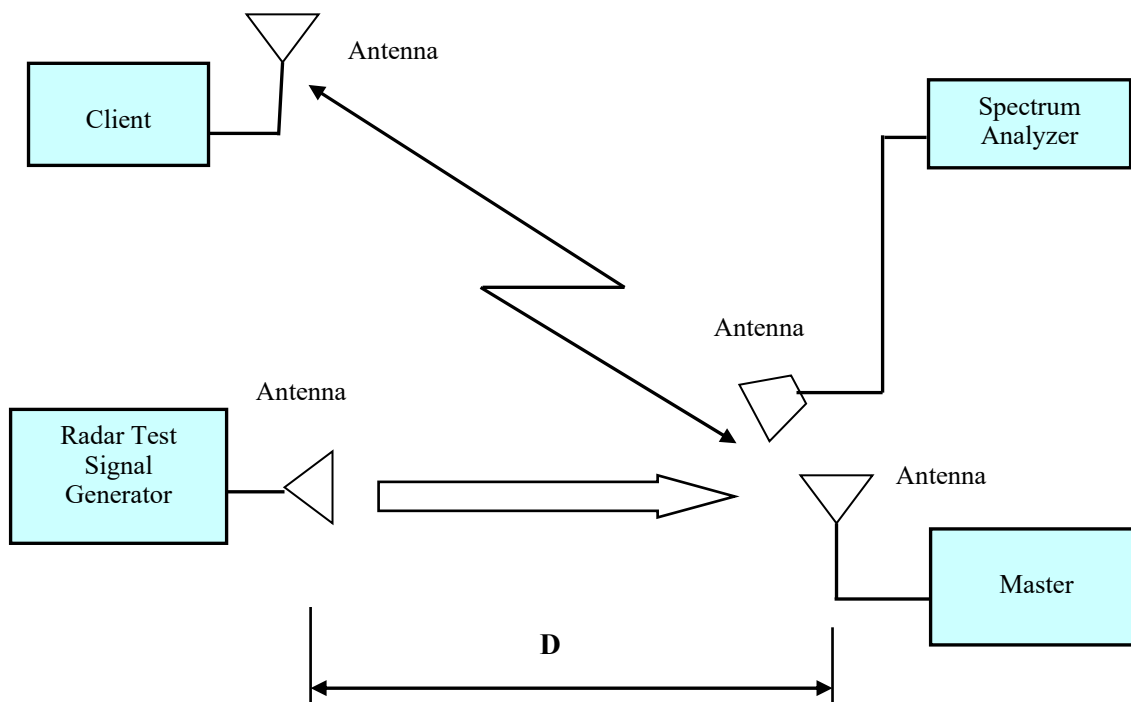


Setup for Client with injection at the Master



Setup for Client with injection at the Client

4.5 Radiated Method



4.6 Test Procedure

A spectrum analyzer was used as a monitor that verifies the EUT's status, which includes the Channel Closing Transmission Time and the Channel Move Time. The Spectrum analyzer was used to monitor the equipment under test (EUT) does not transmit on the same channel during the Non-Occupied Period after the radar detection.

5 Test Results

5.1 Description of EUT

The EUT operates in 5230-5350 MHz and 5470-5725 MHz range in master Mode.

The rated output power of master device is < 23 dBm (EIRP). The radar threshold at antenna port was -62 dBm.

WLAN traffic is generated by streaming the data with iperf software.

5.2 Antenna Details

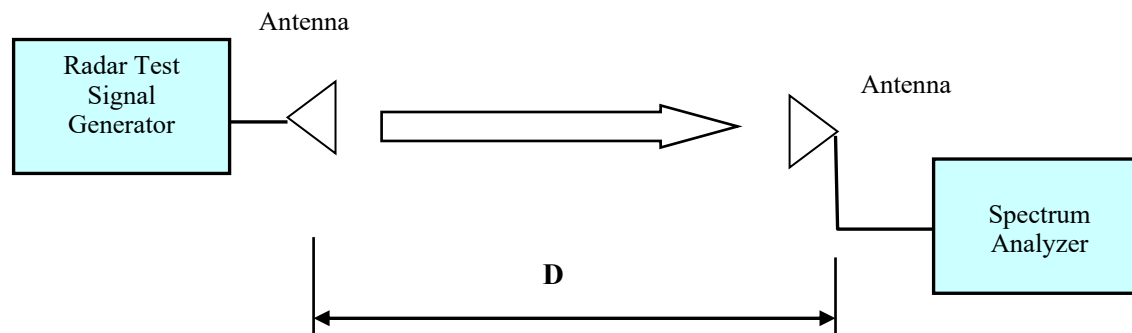
Antenna usage	Frequency Range (MHz)	Maximum Antenna Gain (dBi)
2.4GHz Wi-Fi/Bluetooth/ZigBee	2400-2483.5	0
5GHz Wi-Fi	5150 - 5850	1

5.3 Test Equipment List and Details

Manufacturer	Equipment Description	Model	S/N	Calibration Date	Calibration Interval
National Instruments	NI PXI-1042 8-Slot chassis	PXI-1042	V08X01EE1	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-7206	N/A	N/A	N/A
Agilent	Analyzer, Spectrum	E4440A	US45303156	2020-04-24	1 year
A.R.A.	Antenna Horn	DRG-118/A	1132	2020-02-05	2 years
Sunol Sciences	Antenna Horn	DRH-118	A052704	2019-04-02	2 years
-	RF Cable	-	-	Each Time	Each Time
Mini-Circuits	Splitter/Combiner	2FSC-2-10G	0349	N/A	N/A
Narda	Splitter/Combiner	4326B-2	03514	N/A	N/A
Midwest	Attenuator	290-30	N/A	N/A	N/A
Mini-Circuits	Attenuator	BW-S30W2	N/A	N/A	N/A
National Instruments	NI PXI-1042 8-Slot chassis	PXI-1042	V08X01EE1	N/A	N/A
Keysight Technologies	Vector Signal Generator	N5182B	MY51350070	2020-02-11	1 year

Statement of Traceability: *BACL Corp.* attests that all of the calibrations on the equipment items listed above were traceable to NIST or to another internationally recognized National Metrology Institute (NMI), and were compliant with the latest version of A2LA policy P102 "A2LA Policy on Metrological Traceability".

5.4 Radar Waveform Calibration

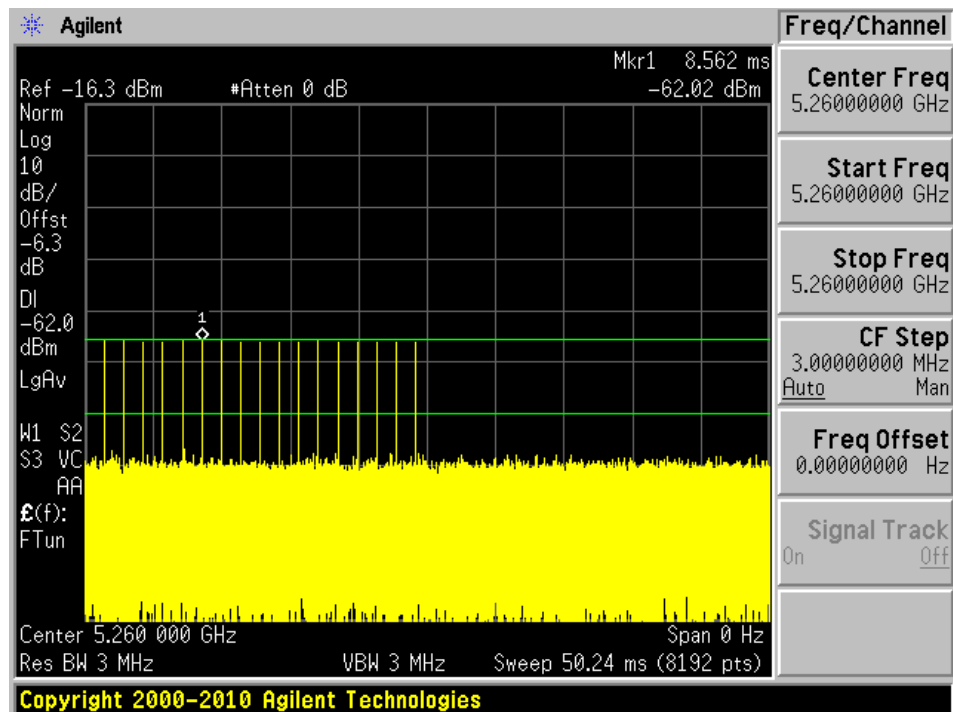
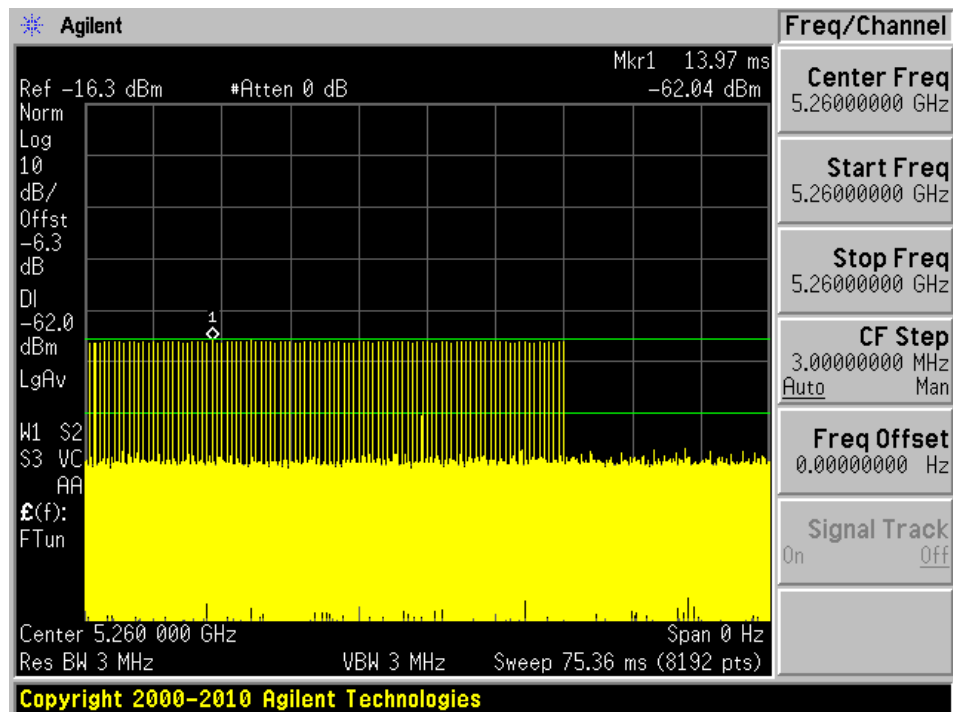


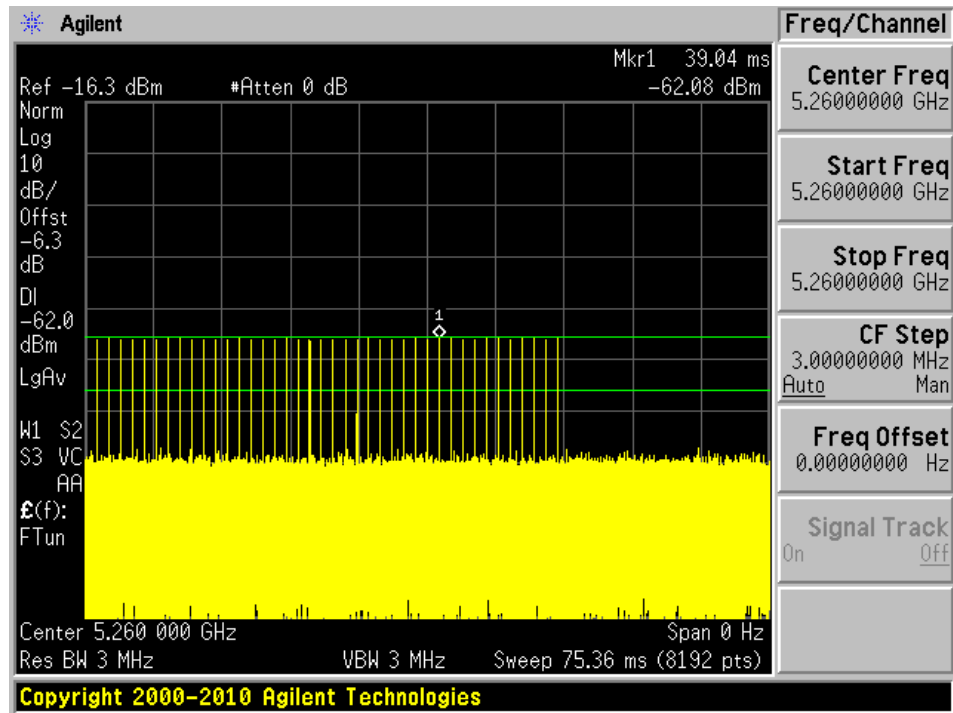
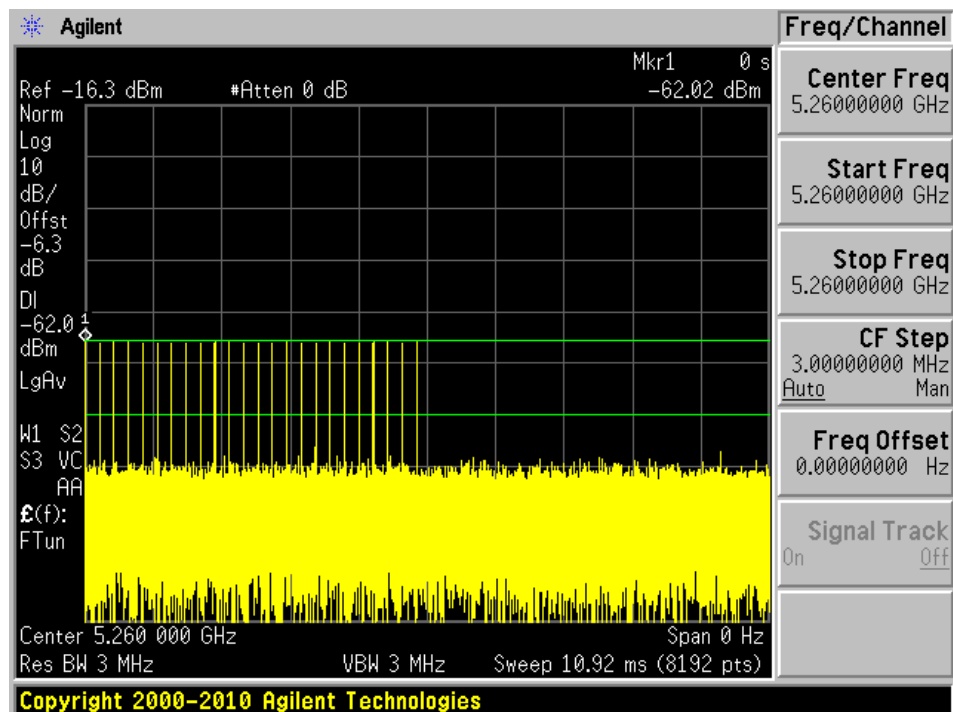
Radiated Calibration Setup Block Diagram

5.5 Test Environmental Conditions

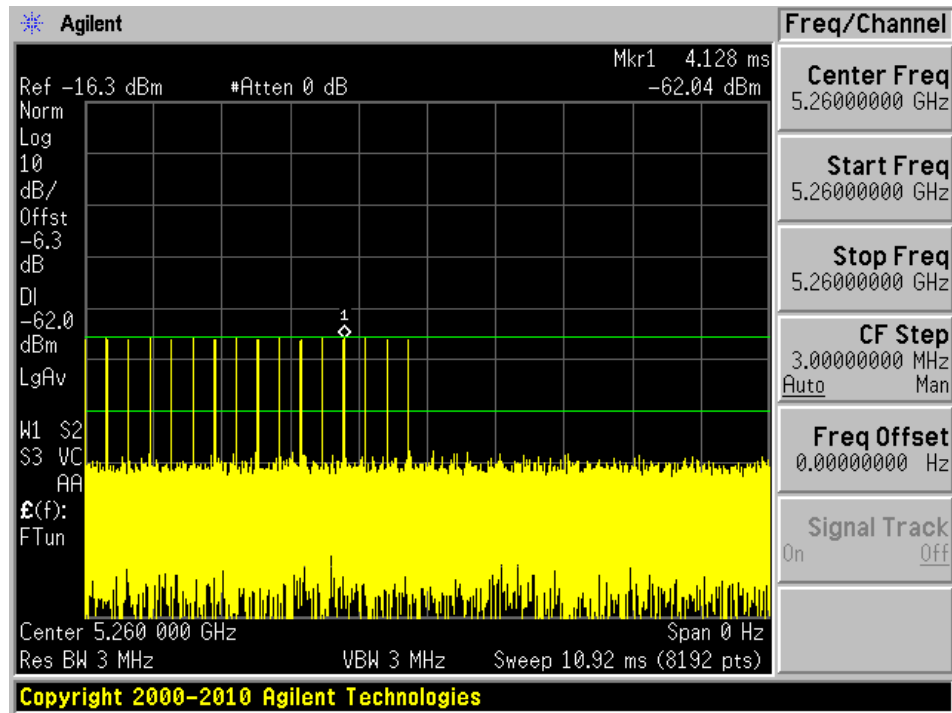
Temperature:	22-25° C
Relative Humidity:	45-48 %
ATM Pressure:	102.3 kPa

Testing was performed by Zhao Zhao from 2020-09-17 to 2021-01-21 in DFS site.

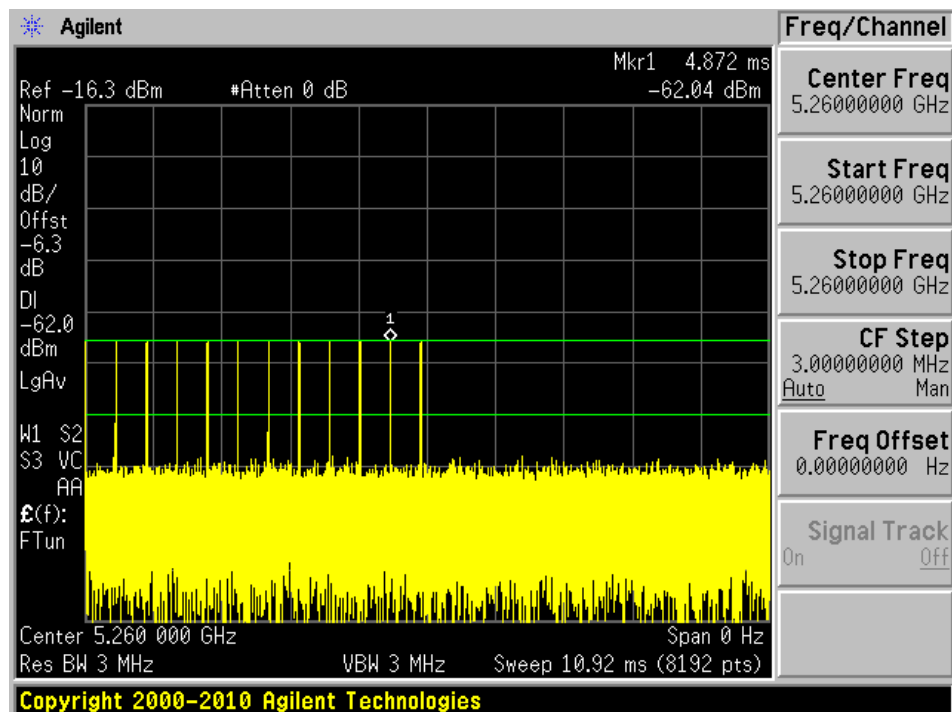
Plots of Radar Waveforms**5.3 GHz****Radar Type 0****Radar Type 1A**

Radar Type 1B**Radar Type 2**

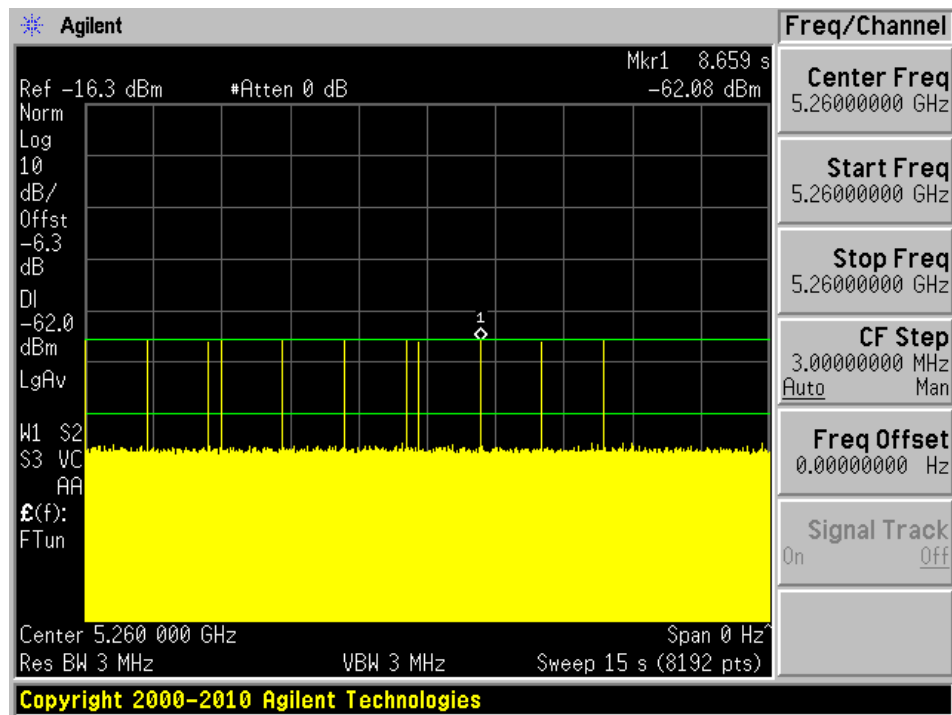
Radar Type 3



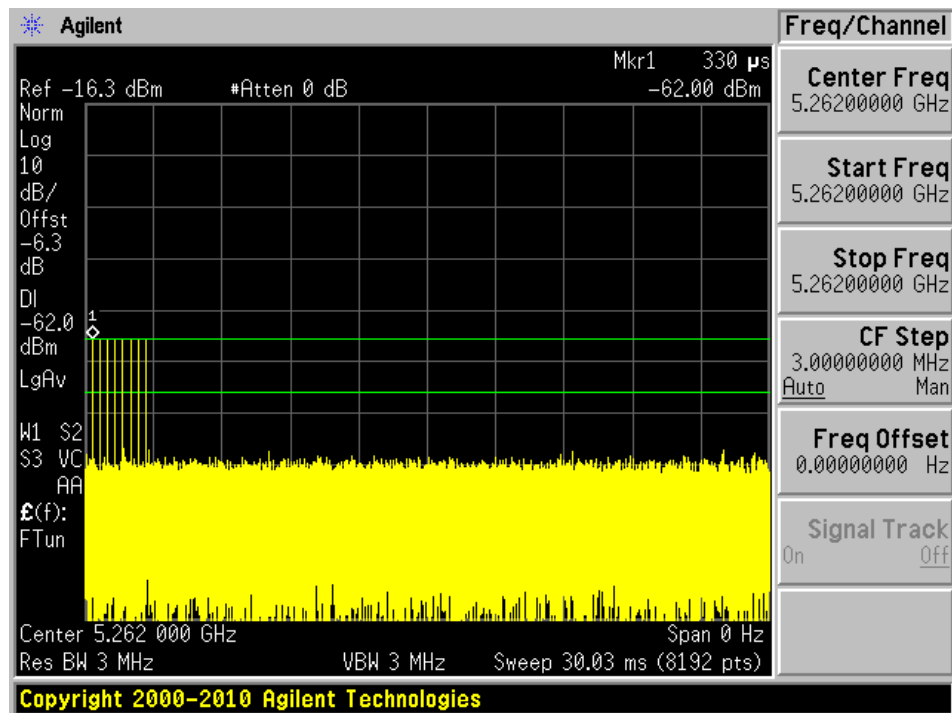
Radar Type 4



Radar Type 5

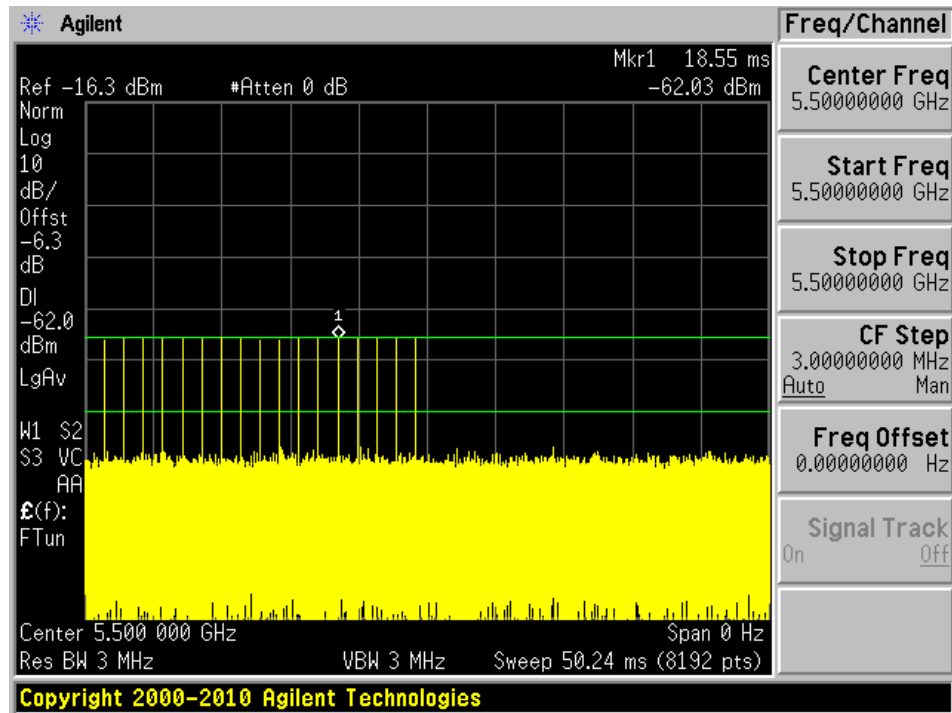


Radar Type 6

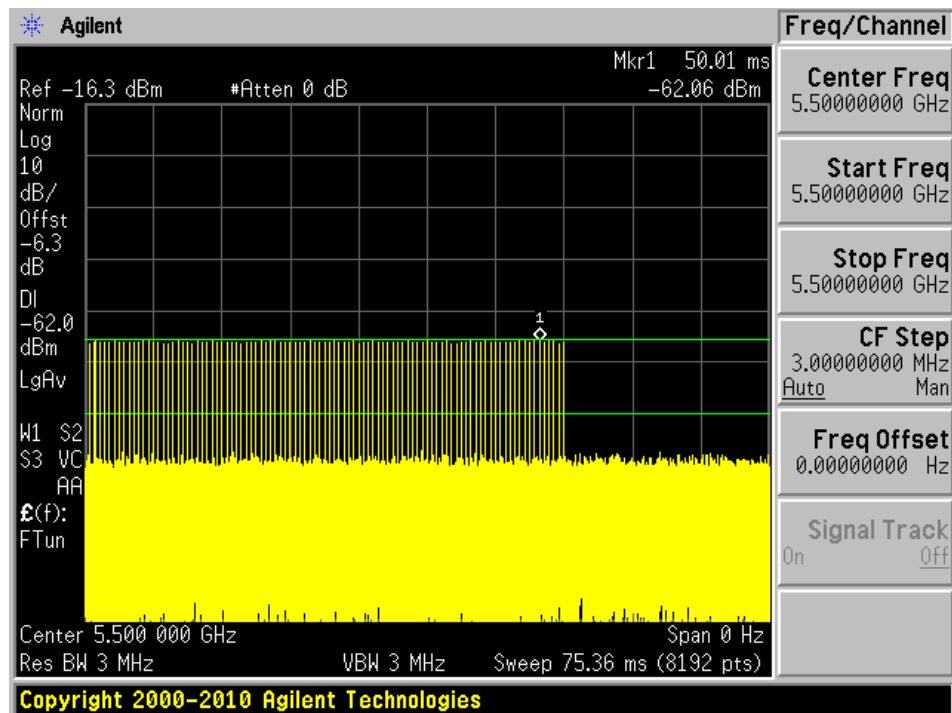


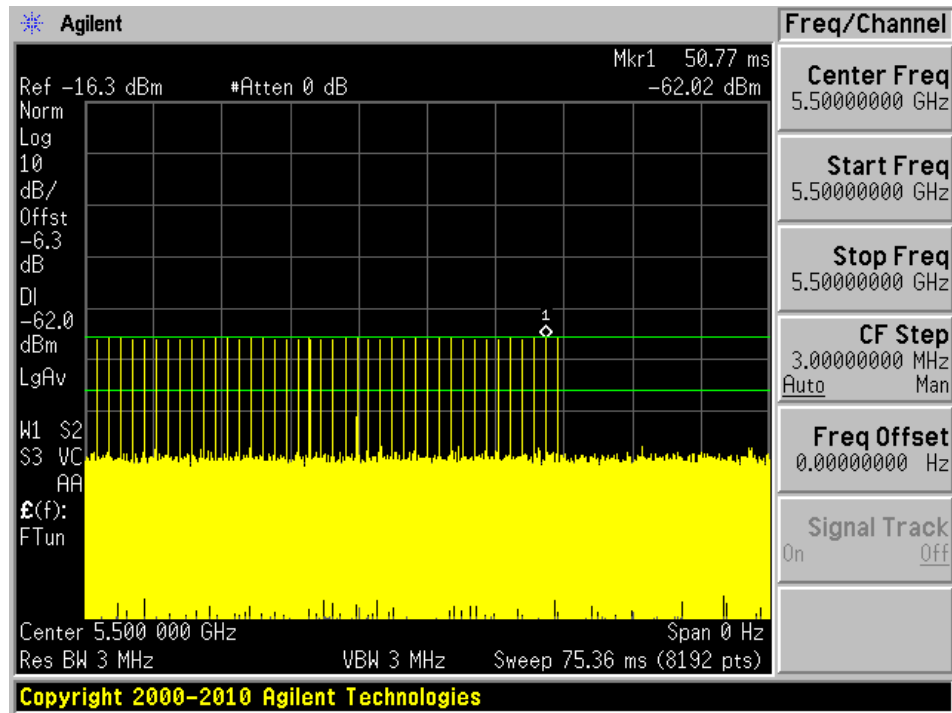
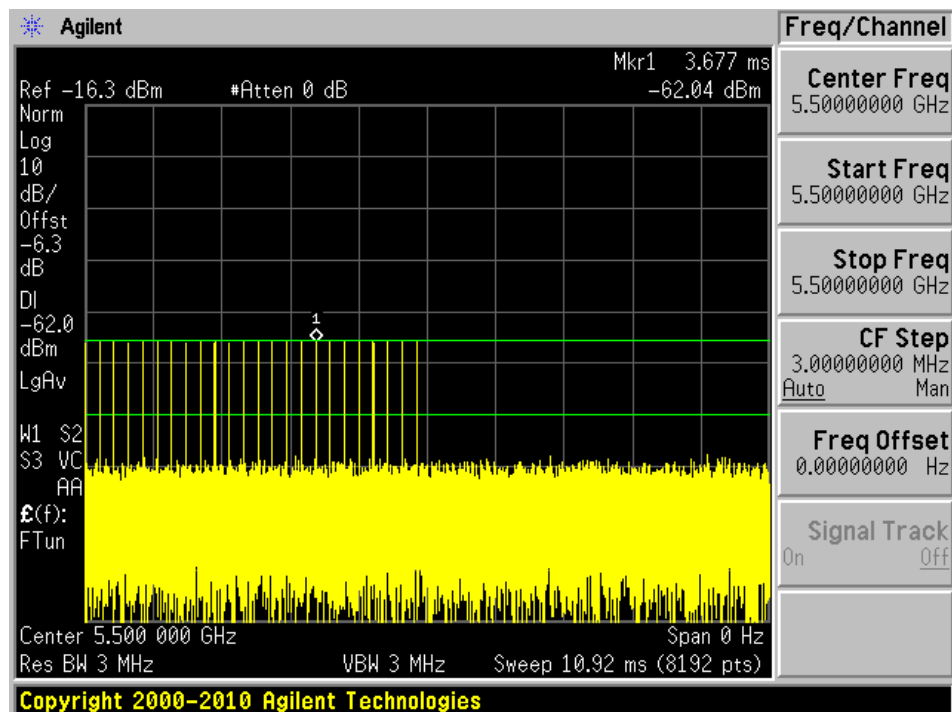
5.6 GHz

Radar Type 0

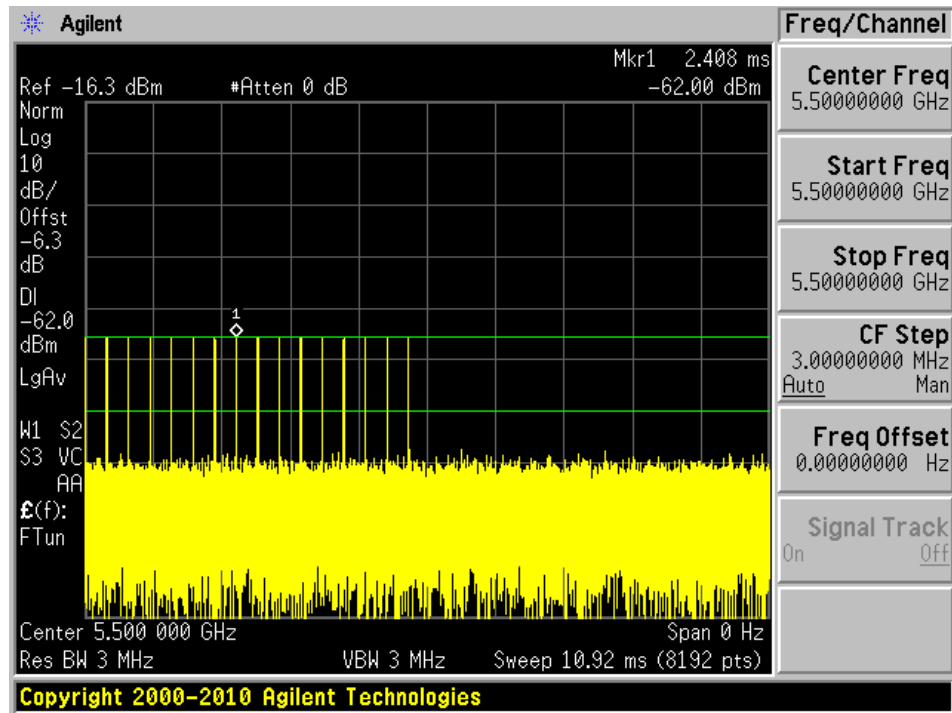


Radar Type 1A

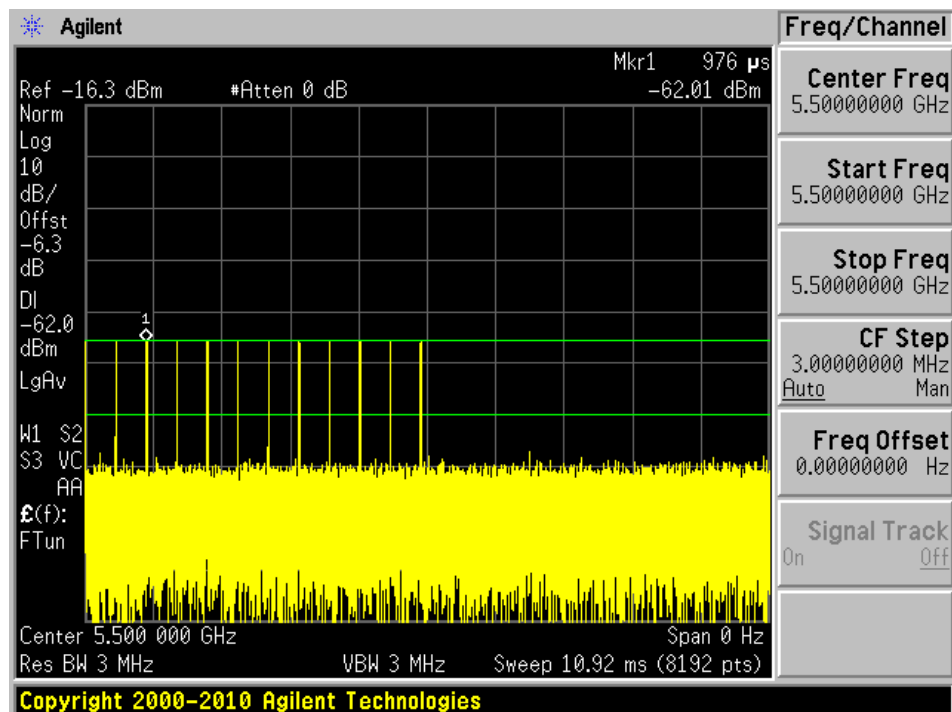


Radar Type 1B**Radar Type 2**

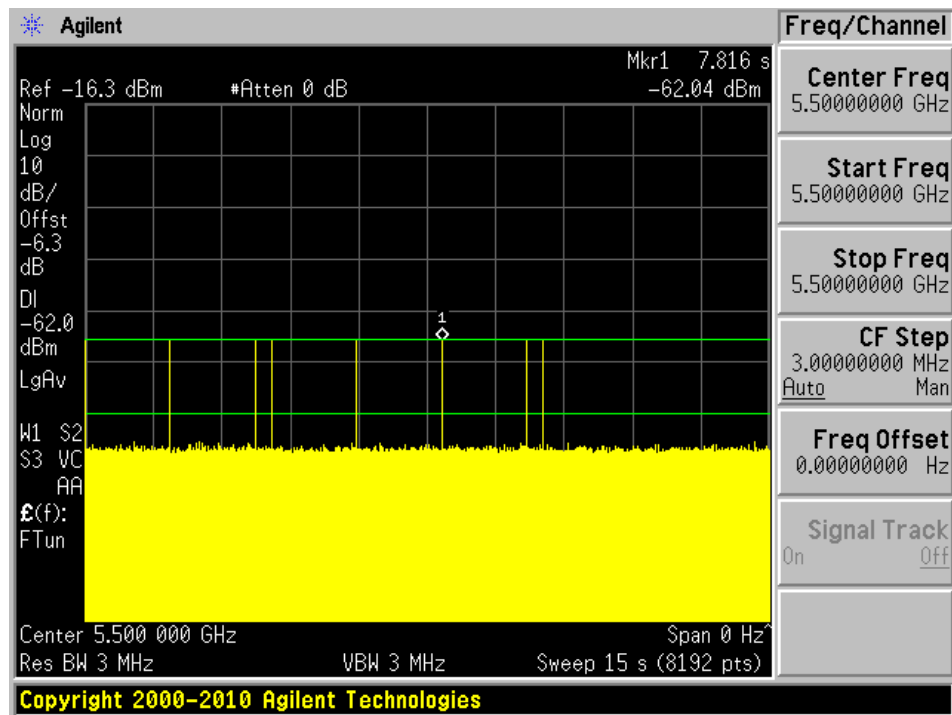
Radar Type 3



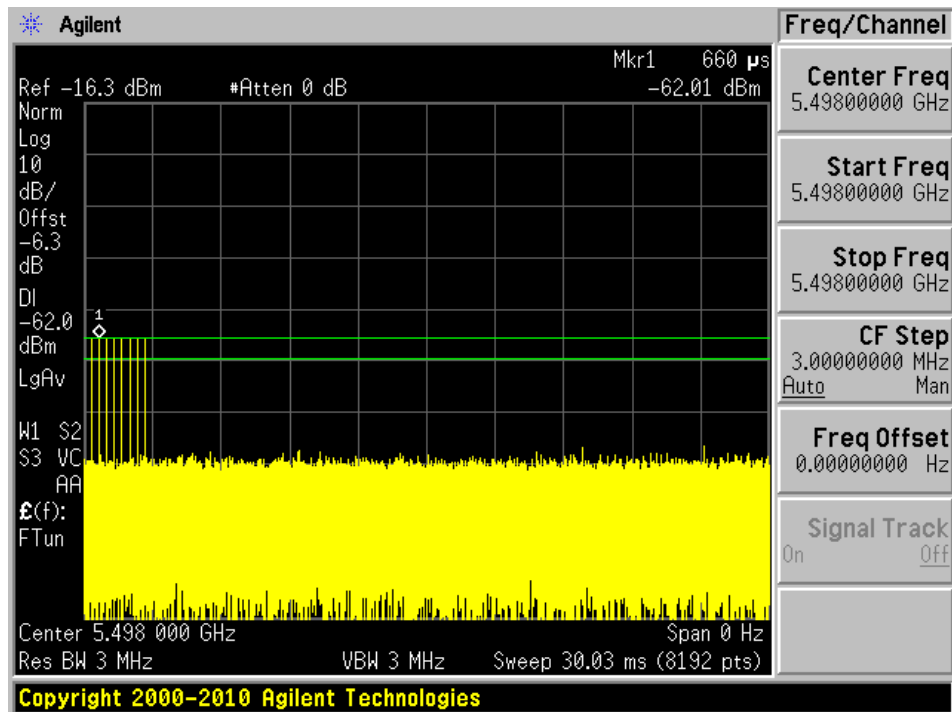
Radar Type 4



Radar Type 5



Radar Type 6



6 Channel Availability Check Time (CAC)

6.1 Test Procedure

- 1) Use the command to set channel, then use command to reboot the EUT, meanwhile, record the power cycle time together with CA time. Use the total time minus 60 seconds to get the power cycle time.
- 2) Reboot the EUT again, apply a radar signal within 0~6 seconds after power cycle time ended, monitor the transmissions on channel from the spectrum analyzer.
- 3) Reboot EUT, apply a radar signal within 54~60 seconds after the power cycle time ended, and monitor the transmission on channel from the spectrum analyzer.

Results:

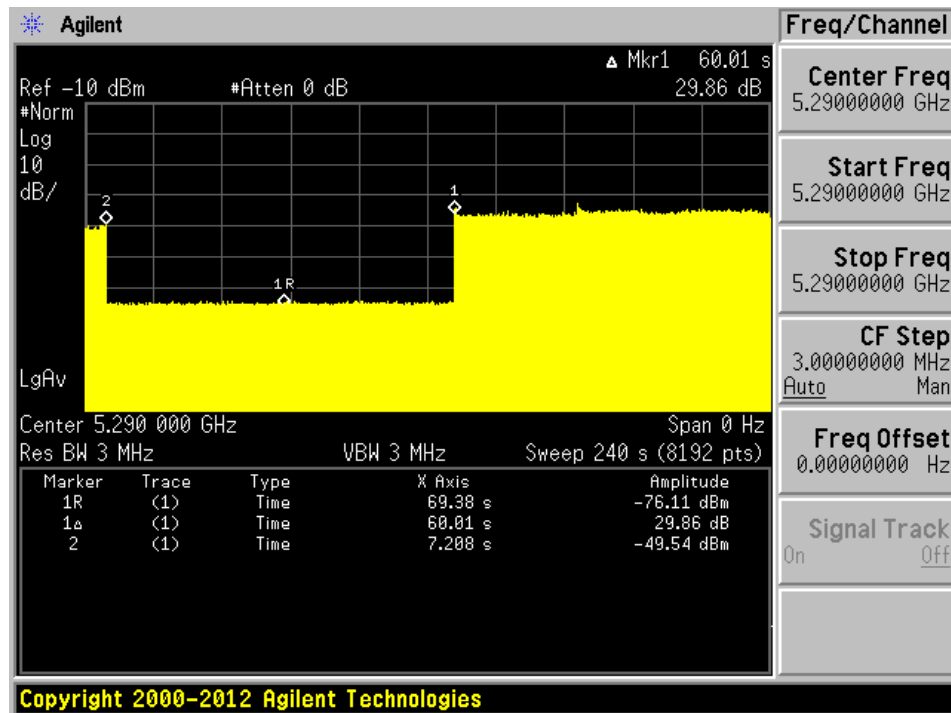
CAC Total Time: 60 Seconds

Timing of Radar Burst	Spectrum Analyzer Display	Result
No Radar Triggered	Transmission begin after power-up cycle (62 seconds) and CAC	Pass
Within 6 seconds of the CAC starting	No transmission	Pass
Within the last 6 seconds of the CAC	No transmission	Pass

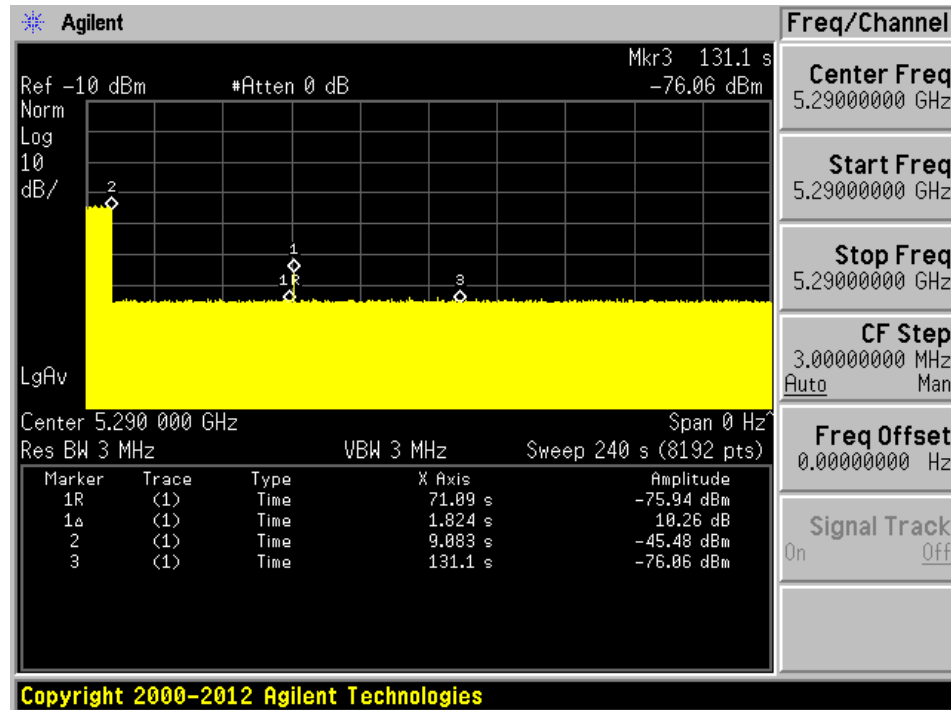
Note: The CAC test is with the Radar type 0.

5290 MHz

Plot of Power Cycle Time and CAC Time

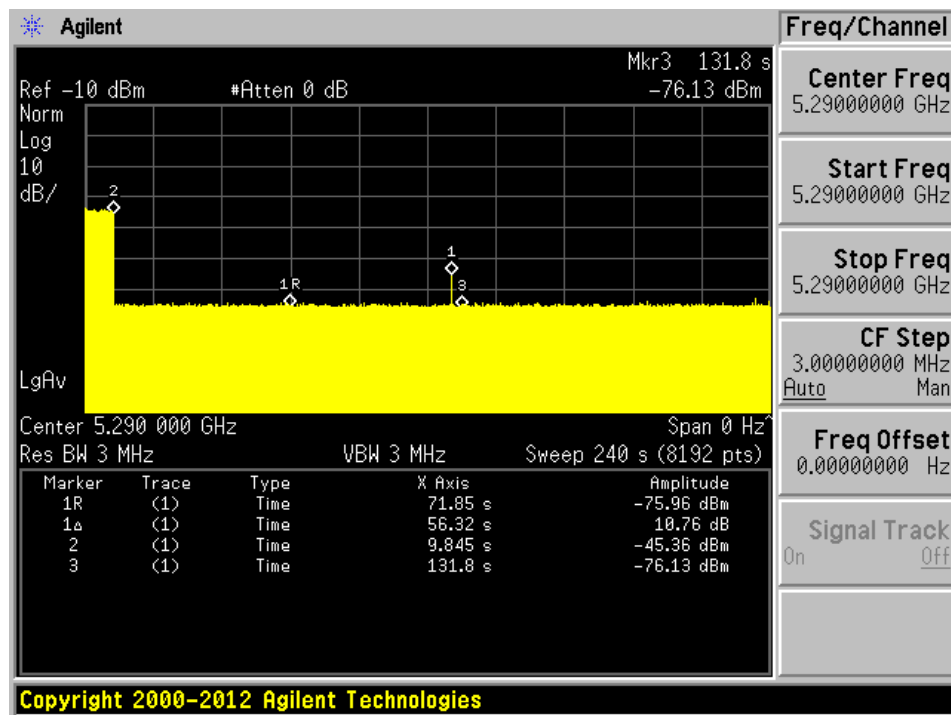


Plot of Radar signal applied within 6 seconds of start of CAC



No transmissions found after radar signal applied.

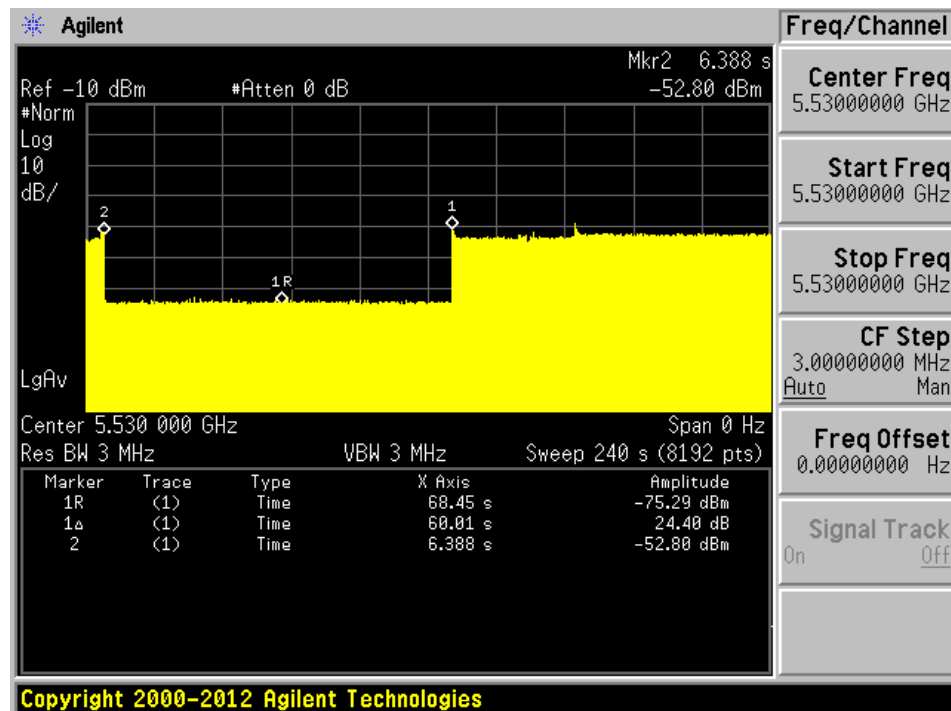
Plot of Radar signal applied at the end of 6 seconds of CAC



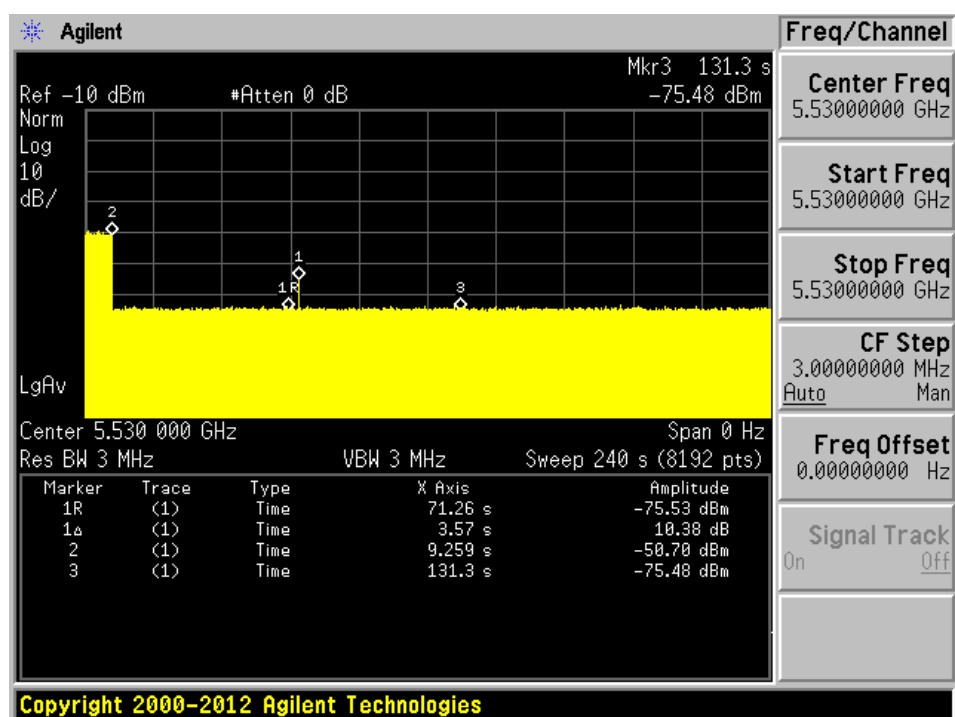
No transmissions found after radar signal applied.

5530 MHz

Plot of Power Cycle Time and CAC Time

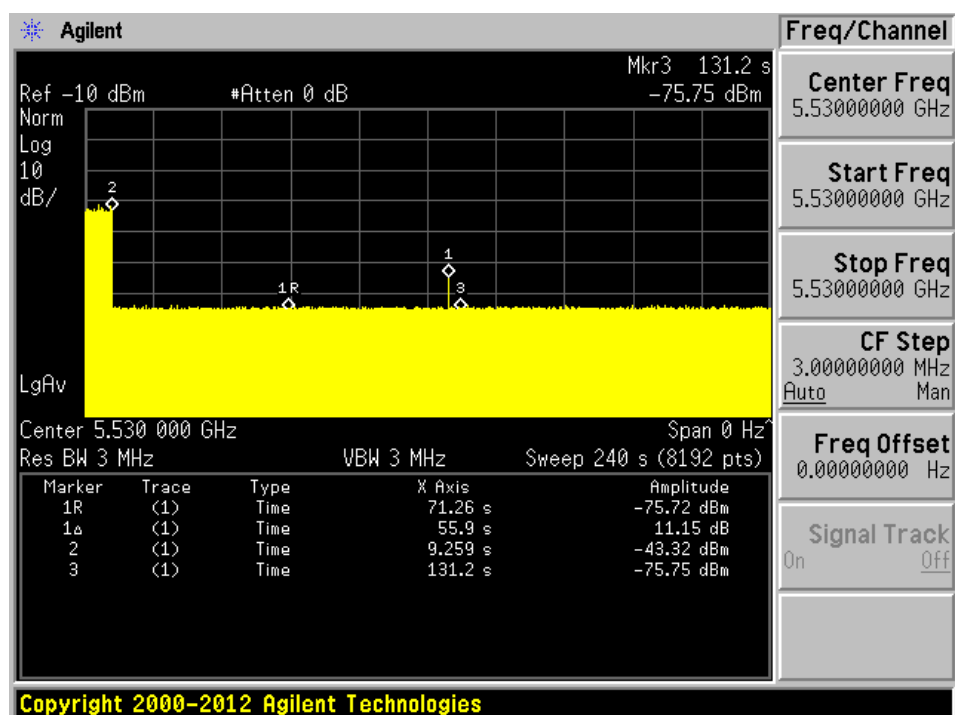


Plot of Radar signal applied within 6 seconds of start of CAC



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.

7 Channel Move Time and Channel Closing Transmission Time

7.1 Test Procedure

Perform one of the type 0 short pulse radar waveform

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time = $N * \text{Dwell Time}$

N is the number of spectrum analyzer bins showing a device transmission

Dwell Time is the dwell time per bin (i.e. $\text{Dwell Time} = S/B$, S is the sweep time and B is the number of bin, i.e. 8192)

7.2 Test Results

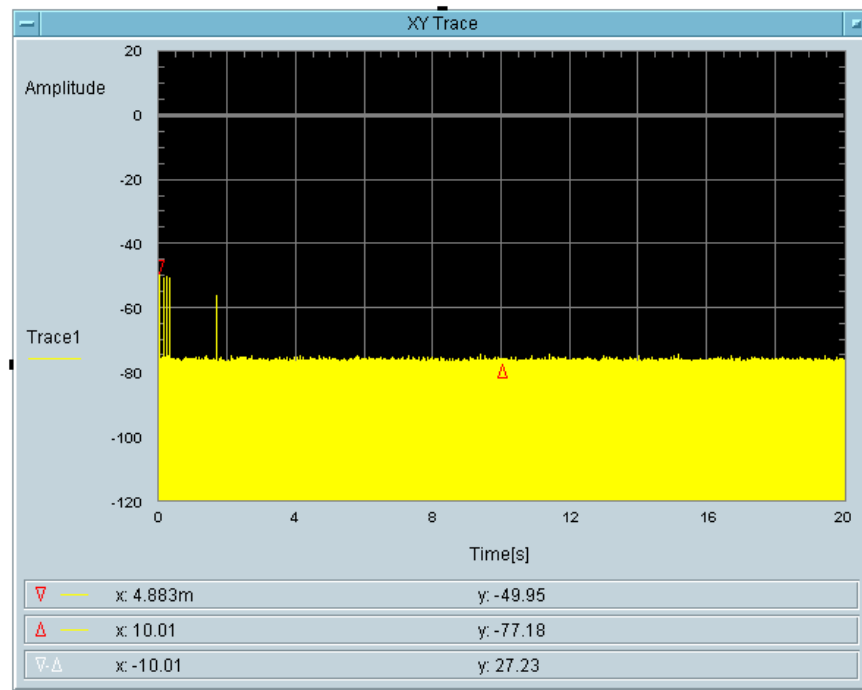
Frequency (MHz)	Bandwidth (MHz)	Radar Type	Results
5290	80	Type 0	Compliant
5530	80	Type 0	Compliant

Please refer to the following tables and plots.

5290 MHz Bandwidth 80 MHz

Type 0 radar channel moving and closing transmission time result:

Frequency (MHz)	Radar Type	Channel Closing Transmission Time				Channel Move Time	
		Test	Limit	Aggregate Transmission Time	Limit	Test	Limit
5290	0	12.21 ms	200 ms	4.883 ms	60 ms	< 10 s	10 s



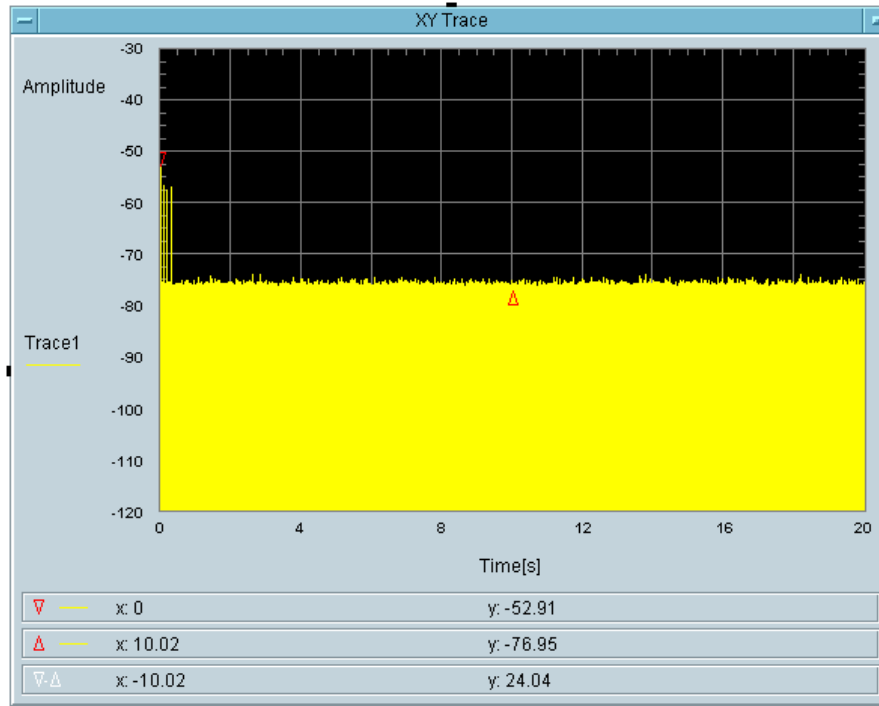
Total On Time [s]
12.21m

Total On Time After Delay [s]
4.883m

5530 MHz Bandwidth 80 MHz

Type 0 radar channel moving and closing transmission time result:

Frequency (MHz)	Radar Type	Channel Closing Transmission Time				Channel Move Time	
		Test	Limit	Aggregate Transmission Time	Limit	Test	Limit
5530	0	14.65ms	200 ms	2.441 ms	60 ms	< 10 s	10 s



Total On Time [s]
14.65m

Total On Time After Delay [s]
2.441m

8 Non-Occupancy Period

8.1 Test Procedure

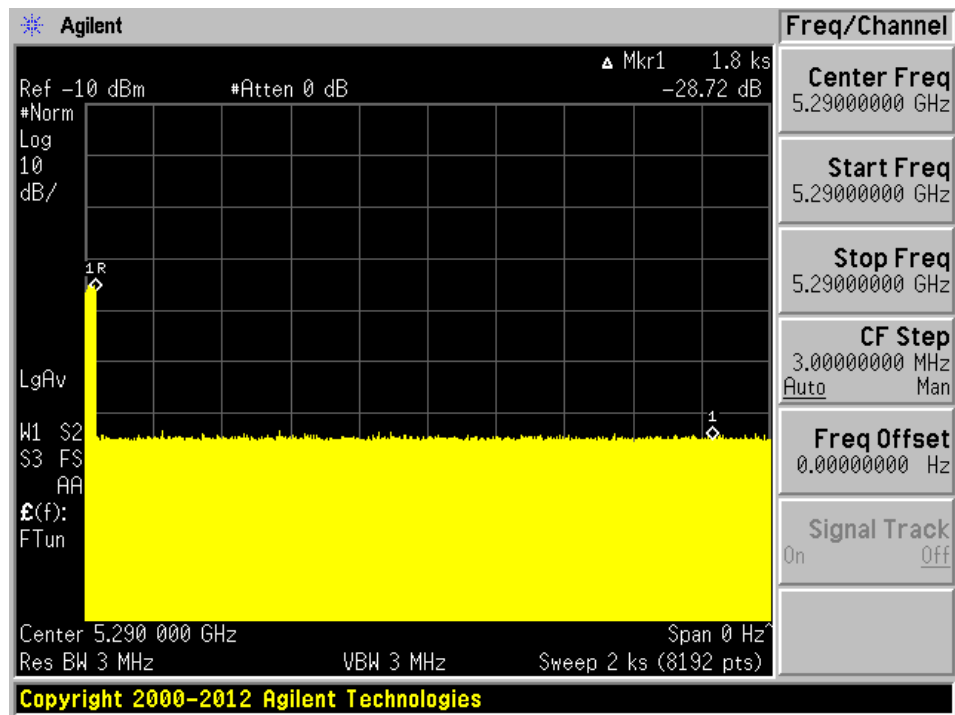
Measure the EUT for more than 30 minutes following the channel close/move time to verify that the EUT does not resume any transmissions on this channel. Provide one plot to demonstrate no transmission on the channel for the non-occupancy period (30 minutes observation time)

8.2 Test Results

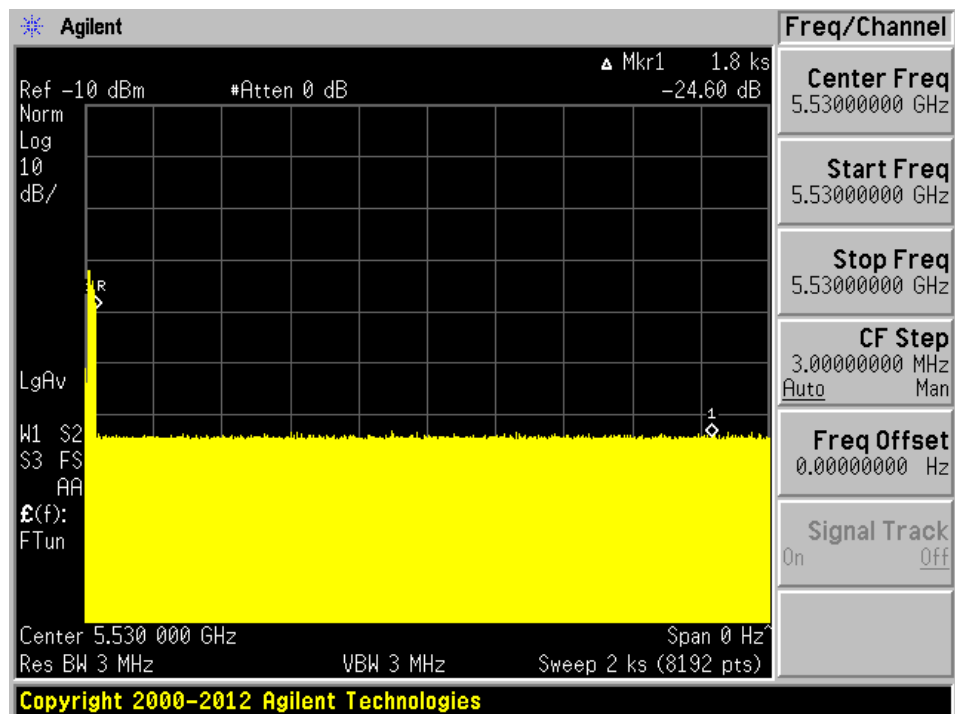
Frequency (MHz)	Bandwidth (MHz)	Spectrum Analyzer Display
5290	80	No transmission within 30 minutes
5530	80	No transmission within 30 minutes

Please refer to the following plots.

5290 MHz, Bandwidth 80 MHz



5530 MHz, Bandwidth 80 MHz



9 Radar Detection Bandwidth & Radar Detection Performance Check

9.1 Detection Bandwidth

Procedure:

Performed with any one of the short pulse radar waveforms type 0

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 FH) at which detection is greater than or equal to the U-NII Detection Bandwidth criterion. Recording the detection rate at frequencies above FH is not required to demonstrate compliance.

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 FL) at which detection is greater than or equal to the U-NII Detection Bandwidth criterion. Recording the detection rate at frequencies below FL is not required to demonstrate compliance.

The U-NII Detection Bandwidth is calculated as follows: U-NII Detection Bandwidth = FH – FL

Test Results

Frequency (MHz)	F _L (MHz)	F _H (MHz)	Detection Bandwidth (MHz)	Minimum Limit	Result
5260	5250	5270	20	100%	Compliance
5270	5251	5290	39	100%	Compliance
5290	5251	5330	79	100%	Compliance
5500	5490	5510	20	100%	Compliance
5510	5491	5530	40	100%	Compliance
5530	5490	5570	80	100%	Compliance

Please refer to the following tables.

Results of Detection Bandwidth:

EUT Frequency = 5260 MHz											
DFS Detection Trials (1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5249	0	0	0	0	0	0	0	0	0	0	0 %
5250(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5255	1	1	1	1	1	1	1	1	1	1	100 %
5260(F _c)	1	1	1	1	1	1	1	1	1	1	100 %
5265	1	1	1	1	1	1	1	1	1	1	100 %
5270(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5271	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = F_H – F_L=5270-5250=20 MHz											
EUT 99% OBW = 18 MHz; 18 x 100% = 18 MHz						Result:		Pass			

EUT Frequency = 5500 MHz											
DFS Detection Trials (1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5489	0	0	0	0	0	0	0	0	0	0	0 %
5490(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5495	1	1	1	1	1	1	1	1	1	1	100 %
5500(F _c)	1	1	1	1	1	1	1	1	1	1	100 %
5505	1	1	1	1	1	1	1	1	1	1	100 %
5510 (F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5511	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = F_H – F_L=5510-5490=20 MHz											
EUT 99% OBW = 18 MHz; 18 x 100% = 18 MHz						Result:		Pass			

Results of Detection Bandwidth:

EUT Frequency = 5270 MHz											
DFS Detection Trials (1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5249	0	0	0	0	0	0	0	0	0	0	0 %
5250(F _L)	1	1	1	0	1	0	1	0	0	0	50 %
5251(F_L)	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(F _c)	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(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5291	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = F_H – F_L=5290-5251=39 MHz											
EUT 99% OBW = 37 MHz; 37 x 100% = 37 MHz						Result:		Pass			

EUT Frequency = 5510 MHz											
DFS Detection Trials (1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5489	0	0	0	0	0	0	0	0	0	0	0 %
5490(F_L)	1	1	1	0	1	1	1	1	1	1	90 %
5495	1	1	1	1	1	1	1	1	1	1	100 %
5500	1	1	1	1	1	1	1	1	1	1	100 %
5505	1	1	1	1	1	1	1	1	1	1	100 %
5510(F _c)	1	1	1	1	1	1	1	1	1	1	100 %
5515	1	1	1	1	1	1	1	1	1	1	100 %
5520	1	1	1	1	1	1	1	1	1	1	100 %
5525	1	1	1	1	1	1	1	1	1	1	100 %
5530(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5531	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = F_H – F_L=5530-5490=40 MHz											
EUT 99% OBW = 37 MHz; 37 x 100% = 37 MHz						Result:		Pass			

Results of Detection 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 (%)
5249	0	0	0	0	0	0	0	0	0	0	0 %
5250	0	1	1	0	0	0	1	0	0	0	30 %
5251(F_L)	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(F _C)	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(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5331	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = F_H – F_L=5330-5251=79 MHz											
EUT 99% OBW = 76 MHz; 76 x 100% = 76 MHz						Result:		Pass			

EUT Frequency = 5530 MHz											
DFS Detection Trials (1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5489	0	0	0	0	0	0	0	0	0	0	0 %
5490(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5495	1	1	1	1	1	1	1	1	1	1	100 %
5500	1	1	1	1	1	1	1	1	1	1	100 %
5505	1	1	1	1	1	1	1	1	1	1	100 %
5510	1	1	1	1	1	1	1	1	1	1	100 %
5515	1	1	1	1	1	1	1	1	1	1	100 %
5520	1	1	1	1	1	1	1	1	1	1	100 %
5525	1	1	1	1	1	1	1	1	1	1	100 %
5530(F_C)	1	1	1	1	1	1	1	1	1	1	100 %
5535	1	1	1	1	1	1	1	1	1	1	100 %
5540	1	1	1	1	1	1	1	1	1	1	100 %
5545	1	1	1	1	1	1	1	1	1	1	100 %
5550	1	1	1	1	1	1	1	1	1	1	100 %
5555	1	1	1	1	1	1	1	1	1	1	100 %
5560	1	1	1	1	1	1	1	1	1	1	100 %
5565	1	1	1	1	1	1	1	1	1	1	100 %
5570(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5571	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = $F_H - F_L = 5570 - 5490 = 80$ MHz											
EUT 99% OBW = 76 MHz; $76 \times 100\% = 76$ MHz						Result:		Pass			

9.2 Radar Detection Performance Check

Procedure:

Stream MPEG file from master to slave

Generate radar waveform

Record whether or not the waveform was detected

At least 30 trials are applied for each radar type

For radar types with randomized parameters, each trial uses a unique waveform

Perform with each of the radar types 1-6

Confirm that the detection rate for each radar type meets the minimum requirement

Type 1A&1B, 2, 3, 4: 60% each

Type 5: 80%

Type 6: 70%

Confirm that the mean of the rates for radar types 1 through 4 meets the requirement of 80%

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

Test Results:

Please refer to the following summary table.

Note: Radar detection has been validated for Bridge mode as well.

5260 MHz, 20 MHz Bandwidth

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit	Pass/Fail
Type 1A/1B	30	73.33	60%	Pass
Type 2	30	86.7	60%	Pass
Type 3	30	96.7	60%	Pass
Type 4	30	86.7	60%	Pass
Aggregate (Type1 to 4)	120	85.86	80%	Pass
Type 5	30	93.33	80%	Pass
Type 6	30	93.3	70%	Pass

5270 MHz, 40 MHz Bandwidth

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit	Pass/Fail
Type 1A/1B	30	96.67	60%	Pass
Type 2	30	90	60%	Pass
Type 3	30	90	60%	Pass
Type 4	30	93.3	60%	Pass
Aggregate (Type1 to 4)	120	92.49	80%	Pass
Type 5	30	93.33	80%	Pass
Type 6	30	100	70%	Pass

5290 MHz, 80 MHz Bandwidth

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit	Pass/Fail
Type 1A/1B	30	90	60%	Pass
Type 2	30	86.67	60%	Pass
Type 3	30	86.67	60%	Pass
Type 4	30	83.3	60%	Pass
Aggregate (Type1 to 4)	120	86.66	80%	Pass
Type 5	30	93.3	80%	Pass
Type 6	30	100	70%	Pass

5500 MHz, 20 MHz Bandwidth

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit	Pass/Fail
Type 1A/1B	30	96.7	60%	Pass
Type 2	30	90	60%	Pass
Type 3	30	93.3	60%	Pass
Type 4	30	86.7	60%	Pass
Aggregate (Type1 to 4)	120	90.83	80%	Pass
Type 5	30	93.33	80%	Pass
Type 6	30	100	70%	Pass

5510 MHz, 40 MHz Bandwidth

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1A/1B	30	80	60%	Pass
Type 2	30	80	60%	Pass
Type 3	30	93.33	60%	Pass
Type 4	30	86.7	60%	Pass
Aggregate (Type1 to 4)	120	85.05	80%	Pass
Type 5	30	100	80%	Pass
Type 6	30	100	70%	Pass

5530 MHz, 80 MHz Bandwidth

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1A/1B	30	100	60%	Pass
Type 2	30	93.3	60%	Pass
Type 3	30	96.7	60%	Pass
Type 4	30	86.7	60%	Pass
Aggregate (Type1 to 4)	120	94.18	80%	Pass
Type 5	30	100	80%	Pass
Type 6	30	100	70%	Pass

5260 MHz, 20 MHz Bandwidth**Table-1 Radar Type 1A/1B Statistical Performance**

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5260	92	1	578	1
2	5260	59	1	898	0
3	5260	99	1	538	1
4	5260	63	1	838	0
5	5260	57	1	938	1
6	5251	89	1	598	1
7	5251	61	1	878	0
8	5251	74	1	718	1
9	5251	83	1	638	1
10	5251	70	1	758	1
11	5269	68	1	778	1
12	5269	102	1	518	1
13	5269	76	1	698	1
14	5269	67	1	798	1
15	5269	72	1	738	1
16	5260	43	1	1230	1
17	5260	19	1	2819	1
18	5260	24	1	2261	1
19	5260	23	1	2363	1
20	5260	91	1	580	1
21	5251	29	1	1876	0
22	5251	18	1	3018	1
23	5251	28	1	1922	1
24	5251	39	1	1386	0
25	5251	98	1	543	1
26	5269	79	1	670	1
27	5269	46	1	1148	0
28	5269	22	1	2460	0
29	5269	19	1	2905	0
30	5269	46	1	1163	1
Detection Percentage: 73.33 % (>60%)					

Table-2 Radar Type 2 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5260	23	3.2	181	1
2	5260	29	2.4	217	1
3	5260	29	4.3	170	1
4	5260	29	2.6	213	1
5	5260	23	3.4	195	1
6	5260	25	2.6	158	1
7	5260	23	4.2	185	1
8	5260	29	3.9	215	1
9	5260	24	1.6	222	1
10	5260	25	2.9	169	1
11	5251	23	3.8	215	1
12	5251	23	1.4	158	1
13	5251	28	4.4	203	0
14	5251	28	4.4	217	1
15	5251	24	1.5	219	1
16	5251	23	4.1	224	1
17	5251	27	2.3	198	1
18	5251	27	4.2	211	1
19	5251	26	1	191	0
20	5251	27	4.5	181	1
21	5269	29	3.1	214	1
22	5269	29	5	150	1
23	5269	28	2	163	1
24	5269	28	4	198	1
25	5269	27	1.3	187	0
26	5269	23	2.5	225	1
27	5269	28	4.5	189	1
28	5269	23	4.3	163	1
29	5269	28	2.6	187	0
30	5269	27	1.7	216	1
Detection Percentage: 86.7 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5260	18	9.3	232	1
2	5260	18	7.6	263	1
3	5260	17	6.1	427	1
4	5260	16	7.5	384	1
5	5260	18	6.2	200	1
6	5260	16	9.5	317	1
7	5260	17	6.7	435	0
8	5260	16	7.4	224	1
9	5260	17	6.3	279	1
10	5260	17	7.5	235	1
11	5251	16	9.9	436	1
12	5251	18	9.2	381	1
13	5251	17	7	227	1
14	5251	18	10	247	1
15	5251	16	9.7	335	1
16	5251	17	9.4	362	1
17	5251	16	8.5	305	1
18	5251	16	9.2	449	1
19	5251	18	7.9	324	1
20	5251	17	9.3	322	1
21	5269	18	9.7	480	1
22	5269	18	8.4	280	1
23	5269	18	6.3	285	1
24	5269	16	9.4	252	1
25	5269	16	9.4	401	1
26	5269	17	7.5	220	1
27	5269	18	6.2	436	1
28	5269	17	6.6	374	1
29	5269	18	6.4	490	1
30	5269	18	7.5	384	1
Detection Percentage: 96.7 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5260	15	12	218	1
2	5260	14	15.8	446	1
3	5260	16	11.1	263	1
4	5260	15	12.3	222	1
5	5260	14	15.6	476	1
6	5260	14	11	424	1
7	5260	15	15.2	327	1
8	5260	15	12.7	221	1
9	5260	13	15.6	403	1
10	5260	12	19.4	413	1
11	5251	16	18.9	245	1
12	5251	12	12.5	487	1
13	5251	15	11.8	300	1
14	5251	14	11.5	241	1
15	5251	13	11.7	426	1
16	5251	15	18.7	333	1
17	5251	16	13.4	361	1
18	5251	13	14.3	396	1
19	5251	15	18.7	286	1
20	5251	12	15	313	1
21	5269	12	12.9	382	1
22	5269	12	13	212	0
23	5269	15	12.9	398	0
24	5269	16	16.7	281	1
25	5269	13	15.7	473	1
26	5269	14	14.6	377	0
27	5269	12	14.9	324	0
28	5269	15	12	445	1
29	5269	12	11.6	341	1
30	5269	13	14.2	305	1
Detection Percentage: 86.7% (>60%)					

Table-5 Radar Type 5 Statistical Performance

Trial #	Fc (MHz)	Detection (1:yes; 0:no)
1	5260	1
2	5260	1
3	5260	1
4	5260	1
5	5260	1
6	5260	1
7	5260	0
8	5260	1
9	5260	1
10	5260	1
11	5255.4	1
12	5257	1
13	5256.6	1
14	5258.6	1
15	5254.6	1
16	5255.8	1
17	5253	1
18	5258.6	0
19	5257.4	1
20	5253.4	1
21	5265.2	1
22	5262.4	1
23	5267.6	1
24	5265.6	1
25	5263.6	1
26	5264.8	1
27	5263.6	1
28	5266.4	1
29	5268	1
30	5262.8	1
Detection Percentage: 93.33 % (>80%)		

Bin5 Statistics 1

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	8	68.3	1828	1993	0.268995	1
1	2	8	82.9	1461	-	1.461898	
2	2	8	91.7	1591	-	2.230447	
3	2	8	69.6	1813	-	2.910977	
4	2	8	78.4	1180	-	3.386316	
5	2	8	51.2	1767	-	4.071234	
6	1	8	76.6	-	-	5.230439	
7	1	8	59.3	-	-	5.277053	
8	2	8	55.9	1975	-	6.591902	
9	3	8	89.5	1039	1506	6.895091	
10	3	8	53.1	1155	1092	8.127267	
11	1	8	57.6	-	-	8.65712	
12	2	8	83.1	1608	-	9.667952	
13	2	8	59.9	1392	-	10.086501	
14	3	8	90.6	1154	1127	10.594137	
15	3	8	89.5	1344	1837	11.866836	

Bin5 Statistics 2

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	6	62.2	1116	1354	0.777712	1
1	2	6	72.4	1818	-	1.358462	
2	1	6	78.5	-	-	2.671118	
3	3	6	95.1	1370	1653	3.892484	
4	3	6	77.5	1159	1485	5.524102	
5	3	6	91.3	1612	1127	7.175461	
6	2	6	66.3	1484	-	7.765594	
7	2	6	77.8	1952	-	8.685029	
8	3	6	78.8	1367	1434	9.909754	
9	2	6	76.7	1082	-	11.727534	

Bin5 Statistics 3

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	11	59.9	1056	1490	0.359689	1
1	3	11	57.6	1508	1590	1.076901	
2	2	11	56.4	1796	-	2.464649	
3	2	11	60.4	1829	-	3.012316	
4	2	11	59.9	1023	-	3.99396	
5	2	11	98.9	1980	-	5.449713	
6	2	11	74.8	1530	-	5.687647	
7	1	11	61	-	-	6.585837	
8	1	11	80.8	-	-	7.502837	
9	2	11	58	1807	-	8.738594	
10	2	11	78.4	1054	-	9.943538	
11	2	11	95.9	1797	-	10.966693	
12	2	11	57.5	1873	-	11.782837	

Bin5 Statistics 4

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	2	12	64.6	1494	-	0.744162	1
1	1	12	53.4	-	-	2.252037	
2	2	12	55.9	1801	-	3.886816	
3	2	12	67.8	1554	-	4.441833	
4	2	12	52.3	1234	-	6.162306	
5	3	12	87.4	1788	1296	7.968504	
6	3	12	90.7	1229	1839	9.036223	
7	3	12	88.2	1987	1299	9.848877	
8	2	12	79.8	1251	-	11.001839	

Bin5 Statistics 5

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	15	61.6	1742	1774	0.265868	1
1	2	15	59.3	1826	-	1.16427	
2	3	15	67.7	1726	1410	1.774834	
3	2	15	53.5	1764	-	2.599836	
4	3	15	87.7	1860	1853	3.255086	
5	2	15	95.8	1597	-	3.361687	
6	2	15	70.6	1865	-	4.230221	
7	3	15	88.8	1870	1089	5.048775	
8	2	15	94.9	1076	-	5.905023	
9	2	15	55.2	1541	-	6.468929	
10	1	15	90.7	-	-	7.073186	
11	2	15	75.3	1207	-	7.84783	
12	2	15	79.9	1786	-	8.369113	
13	1	15	52.8	-	-	8.724508	
14	2	15	62.8	1594	-	9.815235	
15	3	15	73.3	1695	1875	10.108217	
16	2	15	67.3	1342	-	11.138618	
17	1	15	76.5	-	-	11.667466	

Bin5 Statistics 6

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	1	15	98.1	-	-	0.222047	1
1	1	15	71.6	-	-	1.195381	
2	2	15	57.4	1833	-	1.455521	
3	2	15	71.9	1776	-	2.470108	
4	1	15	99.9	-	-	3.113178	
5	2	15	52.5	1318	-	3.752358	
6	3	15	64.7	1197	1197	4.04232	
7	2	15	57.6	1748	-	4.96411	
8	3	15	54.7	1389	1914	5.122821	
9	2	15	81.7	1618	-	5.773603	
10	3	15	85.7	1134	1767	6.616138	
11	2	15	88.9	1033	-	7.100032	
12	2	15	75.1	1547	-	7.582344	
13	3	15	89.5	1070	1270	8.360768	
14	2	15	54.7	1394	-	9.126363	
15	1	15	58.6	-	-	9.759542	
16	2	15	88.5	1408	-	10.692491	
17	2	15	65.3	1792	-	11.238179	
18	1	15	95.3	-	-	11.478269	

Bin5 Statistics 7

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	2	8	70.1	1491	-	0.453651	0
1	3	8	80.2	1146	1974	1.305104	
2	2	8	75	1213	-	1.938944	
3	1	8	86.3	-	-	2.431721	
4	3	8	82.3	1422	1372	2.94042	
5	3	8	89.6	1779	1139	3.967151	
6	3	8	77.1	1101	1376	4.451615	
7	3	8	61.6	1725	1468	5.072727	
8	2	8	58.6	1428	-	5.534759	
9	2	8	53.2	1706	-	6.498696	
10	2	8	80.7	1777	-	6.878714	
11	2	8	93.9	1612	-	7.470519	
12	3	8	57.5	1255	1729	8.175263	
13	1	8	86.9	-	-	9.104792	
14	3	8	63.8	1665	1533	9.955673	
15	2	8	69.6	1869	-	10.399635	
16	3	8	54.5	1129	1952	10.974452	
17	3	8	56.5	1603	1339	11.747305	

Bin5 Statistics 8

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	15	81.8	1457	1079	0.765535	1
1	3	15	93.8	1246	1092	1.137661	
2	2	15	56.7	1961	-	3.010264	
3	3	15	70	1566	1495	4.08654	
4	1	15	62.8	-	-	4.449525	
5	3	15	92.6	1485	1026	6.471422	
6	3	15	77.3	1043	1396	6.818716	
7	3	15	92.9	1307	1548	8.178771	
8	2	15	65.5	1257	-	8.964712	
9	3	15	71.7	1832	1983	9.903806	
10	3	15	91.1	1170	1702	11.571395	

Bin5 Statistics 9

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	1	12	93.6	-	-	0.553972	1
1	3	12	71.7	1564	1232	0.730032	
2	2	12	92.1	1367	-	1.620079	
3	2	12	63.6	1820	-	2.138455	
4	3	12	88.7	1858	1804	2.879498	
5	2	12	59.1	1930	-	4.180229	
6	1	12	89.7	-	-	4.61208	
7	2	12	64.6	1985	-	5.071677	
8	3	12	54.5	1856	1465	6.142368	
9	1	12	73.6	-	-	6.976151	
10	2	12	92.1	1685	-	7.239677	
11	3	12	54.6	1028	1013	8.18534	
12	1	12	53.1	-	-	9.089422	
13	2	12	60.9	1297	-	9.44586	
14	1	12	60.6	-	-	10.138554	
15	2	12	75.6	1839	-	11.131909	
16	1	12	96.5	-	-	11.423482	

Bin5 Statistics 10

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	1	5	63.1	-	-	0.287725	0
1	2	5	61.5	1692	-	0.789054	
2	2	5	76.4	1844	-	2.179263	
3	2	5	76.1	1228	-	2.639416	
4	3	5	50.3	1380	1967	3.463892	
5	3	5	50.3	1839	1781	4.218654	
6	3	5	52.3	1178	1184	4.562987	
7	3	5	85.5	1070	1341	5.727149	
8	2	5	88.4	1860	-	6.72229	
9	2	5	92.1	1534	-	7.362978	
10	2	5	98.2	1989	-	8.194764	
11	3	5	54.9	1319	1646	8.540864	
12	3	5	72.4	1306	1467	9.526943	
13	2	5	59.3	1964	-	10.376731	
14	1	5	77	-	-	10.667822	
15	3	5	79.4	1393	1188	11.675314	

Bin5 Statistics 11

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	95.1	-	-	0.617573	1
1	3	11	94.1	1891	1464	1.015348	
2	3	11	85.1	1847	1332	1.844894	
3	2	11	75.8	1635	-	2.114912	
4	2	11	77.8	1741	-	3.017462	
5	1	11	94.2	-	-	3.927823	
6	2	11	83.5	1983	-	4.437027	
7	3	11	86.4	1669	1860	5.122282	
8	1	11	70.8	-	-	5.897746	
9	2	11	67.1	1441	-	6.065574	
10	3	11	64.7	1650	1341	7.088566	
11	2	11	65.2	1525	-	7.939676	
12	1	11	61.9	-	-	8.114026	
13	1	11	71.4	-	-	8.733795	
14	3	11	50.3	1706	1093	9.792952	
15	1	11	82.3	-	-	10.351918	
16	2	11	58.3	1151	-	11.319758	
17	2	11	62.1	1469	-	11.791374	

Bin5 Statistics 12

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	82.3	1968	-	0.090673	1
1	2	15	88.8	1103	-	1.398883	
2	2	15	72.6	1365	-	1.527132	
3	1	15	71	-	-	2.995816	
4	2	15	77.3	1643	-	3.627315	
5	2	15	66.8	1006	-	3.980359	
6	2	15	85.4	1521	-	4.619496	
7	3	15	74.7	1400	1604	5.991285	
8	2	15	53.7	1331	-	6.742715	
9	3	15	93.3	1481	1397	7.489076	
10	2	15	83.1	1268	-	8.00761	
11	3	15	65.1	1445	1033	8.308158	
12	2	15	68.6	1629	-	9.535751	
13	1	15	84	-	-	10.473562	
14	1	15	68.9	-	-	11.136627	
15	2	15	97.3	1301	-	11.608453	

Bin5 Statistics 13

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	2	14	68.3	1145	-	0.018119	1
1	2	14	99.7	1539	-	1.816264	
2	1	14	63.7	-	-	2.833737	
3	2	14	71.4	1860	-	3.286713	
4	2	14	54.1	1498	-	4.7369	
5	3	14	57.7	1535	1518	5.463012	
6	1	14	98	-	-	6.846453	
7	1	14	96	-	-	7.603039	
8	1	14	62.6	-	-	8.033698	
9	3	14	60.9	1673	1676	9.097894	
10	3	14	57.6	1875	1278	10.895148	
11	2	14	84.2	1950	-	11.242331	

Bin5 Statistics 14

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	19	82.8	1846	1320	0.314276	1
1	2	19	65	1892	-	0.969493	
2	2	19	59.3	1699	-	1.742907	
3	2	19	81.5	1255	-	2.438068	
4	1	19	60.9	-	-	2.950295	
5	2	19	94.4	1728	-	3.819894	
6	2	19	66.7	1973	-	4.78247	
7	3	19	51	1889	1409	5.350171	
8	1	19	55.3	-	-	6.182748	
9	2	19	80.8	1522	-	6.878414	
10	2	19	71.2	1771	-	7.349385	
11	2	19	77.1	1522	-	8.448486	
12	3	19	67.6	1755	1102	8.477189	
13	1	19	90.9	-	-	9.539577	
14	2	19	93.7	1365	-	10.358555	
15	3	19	73.3	1692	1863	10.746793	
16	2	19	62.5	1653	-	11.991449	

Bin5 Statistics 15

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	1	9	90.9	-	-	0.425697	1
1	1	9	53.4	-	-	1.927325	
2	2	9	54.7	1875	-	3.210122	
3	1	9	96.4	-	-	4.229386	
4	2	9	95.5	1778	-	5.41778	
5	2	9	89.7	1385	-	5.785662	
6	3	9	75.4	1793	1264	7.307985	
7	2	9	88	1122	-	7.696809	
8	2	9	81.3	1991	-	9.499743	
9	2	9	98.1	1177	-	10.824958	
10	3	9	90.5	1001	1235	11.410846	

Bin5 Statistics 16

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	1	12	50.5	-	-	0.003826	1
1	3	12	88.6	1307	1364	1.061492	
2	2	12	52	1337	-	1.399628	
3	2	12	59.2	1906	-	2.287362	
4	1	12	99.2	-	-	2.605543	
5	2	12	69.1	1969	-	3.249183	
6	2	12	57.3	1535	-	4.056263	
7	2	12	56.4	1801	-	4.31684	
8	2	12	73.1	1802	-	5.050577	
9	1	12	50.7	-	-	5.505947	
10	2	12	96.2	1130	-	6.251354	
11	1	12	99.1	-	-	6.63125	
12	2	12	85.2	1132	-	7.389938	
13	2	12	55.2	1042	-	8.060001	
14	1	12	73.5	-	-	8.617082	
15	1	12	80.4	-	-	9.045171	
16	3	12	51.7	1605	1419	9.61713	
17	2	12	66.8	1167	-	10.484243	
18	2	12	60.2	1894	-	10.984006	
19	1	12	99.9	-	-	11.889258	

Bin5 Statistics 17

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	5	62.3	1180	1663	0.48379	1
1	1	5	80.5	-	-	1.084983	
2	1	5	69.5	-	-	1.256028	
3	2	5	69.6	1799	-	2.290084	
4	2	5	52.9	1063	-	2.929464	
5	3	5	70.3	1015	1801	3.295376	
6	3	5	74.8	1767	1968	3.895617	
7	2	5	50.4	1307	-	4.49687	
8	1	5	91.2	-	-	4.999651	
9	2	5	70.9	1982	-	5.813378	
10	2	5	75.8	1168	-	6.418506	
11	2	5	73.4	1513	-	6.843003	
12	1	5	83.4	-	-	7.216066	
13	3	5	68.9	1993	1247	7.901469	
14	3	5	90.4	1658	1961	8.720844	
15	2	5	87.5	1559	-	9.474901	
16	2	5	73.2	1717	-	10.088425	
17	2	5	87.9	1481	-	10.690108	
18	2	5	99.8	1527	-	10.929435	
19	3	5	78.6	1741	1710	11.804404	

Bin5 Statistics 18

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	19	87.8	1245	1890	0.442097	0
1	3	19	97.7	1391	1986	1.558426	
2	3	19	56	1192	1355	2.424034	
3	1	19	70	-	-	3.032601	
4	2	19	56.9	1307	-	3.901295	
5	1	19	70.1	-	-	4.293118	
6	2	19	56.9	1858	-	5.643898	
7	2	19	98.7	1640	-	6.618913	
8	1	19	50.1	-	-	6.931685	
9	1	19	96.1	-	-	8.11946	
10	3	19	56.7	1117	1673	8.715167	
11	1	19	69	-	-	10.11368	
12	1	19	75.3	-	-	10.76664	
13	2	19	83.1	1227	-	11.78004	

Bin5 Statistics 19

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	1	16	52.4	-	-	0.23942	1
1	3	16	98.6	1956	1518	1.141038	
2	3	16	59.9	1222	1951	1.557469	
3	2	16	74.9	1087	-	2.240672	
4	3	16	99.5	1697	1154	2.697039	
5	2	16	50.2	1257	-	3.130313	
6	3	16	95.1	1132	1443	3.802251	
7	2	16	72	1591	-	4.369573	
8	1	16	63.6	-	-	5.200924	
9	2	16	99.1	1917	-	5.993128	
10	1	16	56.8	-	-	6.266183	
11	2	16	79.4	1232	-	7.194759	
12	3	16	76.1	1168	1428	7.220294	
13	3	16	86.6	1843	1664	8.11308	
14	1	16	65.8	-	-	8.579751	
15	2	16	51.9	1841	-	9.059072	
16	1	16	89.8	-	-	10.134	
17	1	16	92.4	-	-	10.688093	
18	2	16	85.9	1439	-	11.243867	
19	2	16	91	1862	-	11.462481	

Bin5 Statistics 20

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	1	6	75.2	-	-	0.111182	1
1	2	6	58.5	1015	-	1.850219	
2	2	6	52.5	1978	-	2.851256	
3	1	6	71.9	-	-	4.267075	
4	2	6	60.7	1933	-	5.671967	
5	3	6	58.1	1743	1341	7.159069	
6	2	6	58.1	1660	-	8.031076	
7	2	6	69.2	1733	-	8.808337	
8	2	6	99.3	1323	-	10.381784	
9	1	6	76.1	-	-	11.749548	

Bin5 Statistics 21

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	2	12	64.3	1051	-	0.7184	1
1	3	12	96.5	1005	1576	1.481116	
2	3	12	50.1	1849	1997	2.26967	
3	3	12	79.2	1642	1879	2.821971	
4	1	12	58.3	-	-	4.405365	
5	1	12	99.4	-	-	5.440706	
6	2	12	53	1400	-	5.86648	
7	1	12	62.1		-	6.847141	
8	2	12	94.1	1700	-	8.131177	
9	1	12	79.6	-	-	8.648516	
10	1	12	71	-	-	9.717454	
11	2	12	64.3	1736	-	10.423418	
12	3	12	88.8	1453	1636	11.721768	

Bin5 Statistics 22

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	19	98.8	1053	1347	0.82417	1
1	1	19	67.9	-	-	1.261383	
2	2	19	92	1165	-	2.72254	
3	2	19	52.5	1239	-	3.278642	
4	2	19	56.5	1020	-	4.895961	
5	2	19	60.6	1146	-	5.272546	
6	2	19	73.3	1406	-	6.462685	
7	2	19	60.7	1489	-	7.510588	
8	2	19	56.2	1167	-	8.116637	
9	1	19	58.2	-	-	9.692665	
10	1	19	71.7	-	-	10.550946	
11	2	19	93.5	1121	-	11.028299	

Bin5 Statistics 23

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	2	6	93.1	1657	-	0.27668	1
1	2	6	70.8	1531	-	1.44774	
2	3	6	70.2	1216	1049	1.609295	
3	2	6	94.7	1139	-	2.59125	
4	1	6	62.6	-	-	3.257597	
5	3	6	97.9	1345	1334	4.073302	
6	3	6	86.4	1686	1002	4.989658	
7	3	6	71.7	1157	1427	5.951423	
8	1	6	51.1	-	-	6.702071	
9	2	6	97.8	1220	-	6.888769	
10	2	6	93	1703	-	7.536191	
11	3	6	91.8	1621	1692	8.906685	
12	1	6	70	-	-	9.460449	
13	2	6	81.1	1976	-	10.458968	
14	2	6	60	1499	-	10.875098	
15	1	6	77.3	-	-	11.795762	

Bin5 Statistics 24

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	1	11	52.7	-	-	0.002173	1
1	2	11	60.9	1008	-	1.924064	
2	2	11	97.5	1037	-	3.541684	
3	2	11	92.7	1767	-	3.995368	
4	2	11	66.3	1104	-	5.222524	
5	2	11	83.6	1920	-	6.834477	
6	1	11	89.6	-	-	7.769258	
7	2	11	97.4	1628	-	9.440072	
8	1	11	53.4	-	-	9.803664	
9	1	11	90.5	-	-	11.511409	

Bin5 Statistics 25

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	2	16	55	1414	-	0.843185	1
1	3	16	89.1	1592	1338	2.564011	
2	3	16	94.8	1677	1871	3.334001	
3	1	16	81.2	-	-	4.986364	
4	2	16	86.5	1922	-	6.487836	
5	3	16	83.6	1003	1300	7.821639	
6	2	16	67.6	1631	-	8.017454	
7	2	16	88.8	1404	-	10.247053	
8	1	16	50.6	-	-	11.6415	

Bin5 Statistics 26

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	2	13	81.3	1396	-	0.365042	1
1	2	13	89.2	1791	-	1.283967	
2	2	13	78.9	1004	-	2.546051	
3	2	13	66.6	1376	-	3.514301	
4	3	13	52.6	1047	1415	4.052749	
5	2	13	74.6	1379	-	5.049883	
6	2	13	89.5	1405	-	5.929113	
7	2	13	60.2	1970	-	6.851163	
8	2	13	57.6	1923	-	8.258555	
9	3	13	59.8	1602	1915	8.43252	
10	1	13	87.7	-	-	9.958447	
11	1	13	84.5	-	-	10.867534	
12	1	13	68.6	-	-	11.610786	

Bin5 Statistics 27

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	16	51.8	1395	1901	0.258502	1
1	2	16	63.9	1429	-	0.787437	
2	1	16	87.2	-	-	1.865383	
3	2	16	59.9	1383	-	2.355192	
4	3	16	98.2	1638	1317	2.614081	
5	2	16	71.1	1718	-	3.354982	
6	2	16	70.8	1333	-	4.185019	
7	2	16	70.1	1922	-	4.450323	
8	2	16	91	1237	-	5.241623	
9	2	16	89.1	1674	-	6.078232	
10	1	16	97	-	-	6.5362	
11	1	16	75.5	-	-	7.110671	
12	2	16	62.9	1964	-	7.968382	
13	2	16	95.1	1347	-	8.598097	
14	3	16	58.8	1970	1490	9.364935	
15	2	16	56.6	1673	-	9.539019	
16	2	16	72.9	1348	-	10.168118	
17	1	16	93	-	-	11.286334	
18	2	16	52.8	1906	-	11.405873	

Bin5 Statistics 28

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	58.5	1489	-	0.323466	1
1	3	9	79.8	1858	1261	0.756367	
2	3	9	55.6	1485	1964	2.125684	
3	3	9	96.1	1392	1418	2.986882	
4	3	9	72.3	1627	1839	3.183572	
5	3	9	84.3	1744	1496	4.375877	
6	3	9	94.8	1101	1836	4.834983	
7	1	9	87.2	-	-	5.288356	
8	2	9	60	1251	-	6.358805	
9	1	9	93.4	-	-	6.952563	
10	1	9	63.9	-	-	7.569011	
11	3	9	83.8	1397	1495	8.853741	
12	3	9	61.1	1164	1660	9.728325	
13	2	9	56.2	1185	-	10.174682	
14	1	9	66.3	-	-	10.924097	
15	1	9	56.1	-	-	11.308571	

Bin5 Statistics 29

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	76.1	1286	-	0.079944	1
1	3	5	68.5	1959	1152	0.94258	
2	3	5	50.4	1678	1269	1.902728	
3	2	5	93.5	1667	-	2.475473	
4	2	5	95.4	1806	-	3.201076	
5	3	5	54.4	1984	1438	3.347	
6	2	5	80.6	1645	-	4.124118	
7	2	5	84.1	1515	-	4.675334	
8	1	5	72.7	-	-	5.654573	
9	2	5	67.6	1836	-	6.282502	
10	2	5	72.3	1409	-	7.254987	
11	2	5	54.5	1223	-	7.833203	
12	2	5	50.3	1264	-	8.276917	
13	1	5	74.8	-	-	9.246596	
14	2	5	75.2	1195	-	9.54549	
15	2	5	89.9	1188	-	10.118168	
16	3	5	58.8	1549	1118	10.802186	
17	2	5	58.8	1137	-	11.76029	

Bin5 Statistics 30

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	2	18	63.8	1336	-	0.143366	1
1	1	18	98.4	-	-	2.108886	
2	1	18	83.7	-	-	2.227907	
3	3	18	76.1	1109	1357	3.841434	
4	2	18	53.9	1255	-	5.195622	
5	3	18	81	1303	1882	5.73017	
6	3	18	90.7	1827	1575	6.685796	
7	2	18	75.4	1216	-	7.867844	
8	2	18	64.9	1369	-	9.481248	
9	2	18	73.5	1253	-	10.108815	
10	1	18	76.7	-	-	11.18928	

Table-6 Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)	Hopping Sequence
1	5260	9	1	333	1	5445.0, 5332.0, 5437.0, 5426.0, 5297.0, 5592.0, 5637.0, 5566.0, 5387.0, 5260.0, 5693.0, 5614.0, 5402.0, 5300.0, 5569.0, 5528.0, 5608.0, 5722.0, 5452.0, 5461.0, 5526.0, 5475.0, 5509.0, 5429.0, 5383.0, 5367.0, 5394.0, 5267.0, 5709.0, 5306.0, 5369.0, 5678.0, 5255.0, 5466.0, 5520.0, 5378.0, 5582.0, 5374.0, 5330.0, 5702.0, 5360.0, 5717.0, 5454.0, 5625.0, 5274.0, 5409.0, 5685.0, 5333.0, 5441.0, 5667.0, 5523.0, 5288.0, 5579.0, 5364.0, 5560.0, 5319.0, 5688.0, 5470.0, 5561.0, 5686.0, 5474.0, 5552.0, 5310.0, 5313.0, 5584.0, 5328.0, 5532.0, 5431.0, 5501.0, 5607.0, 5514.0, 5580.0, 5488.0, 5453.0, 5354.0, 5571.0, 5283.0, 5658.0, 5708.0, 5681.0, 5615.0, 5380.0, 5604.0, 5547.0, 5719.0, 5309.0, 5264.0, 5490.0, 5390.0, 5469.0, 5492.0, 5679.0, 5654.0, 5511.0, 5543.0, 5556.0, 5262.0, 5600.0, 5337.0, 5669.0 (number of hits: 5)
2	5260	9	1	333	1	5264.0, 5273.0, 5698.0, 5255.0, 5628.0, 5622.0, 5604.0, 5617.0, 5463.0, 5542.0, 5459.0, 5551.0, 5581.0, 5434.0, 5639.0, 5472.0, 5297.0, 5429.0, 5418.0, 5307.0, 5597.0, 5371.0, 5296.0, 5589.0, 5547.0, 5308.0, 5347.0, 5370.0, 5688.0, 5360.0, 5651.0, 5349.0, 5633.0, 5722.0, 5696.0, 5256.0, 5258.0, 5395.0, 5427.0, 5344.0, 5538.0, 5579.0, 5304.0, 5659.0, 5323.0, 5369.0, 5629.0, 5292.0, 5416.0, 5645.0, 5499.0, 5280.0, 5592.0, 5483.0, 5672.0, 5539.0, 5521.0, 5588.0, 5492.0, 5289.0, 5368.0, 5426.0, 5333.0, 5354.0, 5615.0, 5608.0, 5466.0, 5570.0, 5533.0, 5619.0, 5593.0, 5342.0, 5708.0, 5405.0, 5666.0, 5647.0, 5693.0, 5391.0, 5440.0, 5404.0, 5305.0, 5686.0, 5534.0, 5634.0, 5600.0, 5511.0, 5562.0, 5353.0, 5382.0, 5625.0, 5602.0, 5495.0, 5694.0, 5723.0, 5283.0, 5363.0, 5585.0, 5462.0, 5488.0, 5620.0 (number of hits: 4)
3	5260	9	1	333	1	5518.0, 5600.0, 5294.0, 5347.0, 5436.0, 5502.0, 5681.0, 5266.0, 5337.0, 5320.0, 5421.0, 5688.0, 5658.0, 5679.0, 5404.0, 5455.0, 5354.0, 5283.0, 5274.0, 5350.0, 5602.0, 5461.0, 5541.0, 5582.0, 5456.0, 5336.0, 5702.0, 5706.0, 5478.0, 5458.0, 5481.0, 5720.0, 5642.0, 5265.0, 5501.0, 5358.0, 5651.0, 5713.0, 5365.0, 5311.0, 5710.0, 5432.0, 5697.0, 5553.0, 5367.0, 5361.0, 5314.0, 5446.0, 5346.0, 5668.0, 5316.0, 5405.0, 5646.0, 5691.0, 5530.0, 5466.0, 5493.0, 5431.0, 5389.0, 5525.0, 5504.0, 5463.0, 5698.0, 5660.0, 5617.0,

						5430.0, 5550.0, 5650.0, 5548.0, 5352.0, 5704.0, 5449.0, 5418.0, 5640.0, 5711.0, 5507.0, 5578.0, 5410.0, 5506.0, 5374.0, 5687.0, 5618.0, 5585.0, 5689.0, 5469.0, 5477.0, 5419.0, 5636.0, 5306.0, 5447.0, 5408.0, 5516.0, 5611.0, 5482.0, 5439.0, 5515.0, 5709.0, 5695.0, 5275.0, 5533.0 (number of hits: 2)
4	5260	9	1	333	1	5488.0, 5422.0, 5605.0, 5391.0, 5361.0, 5720.0, 5421.0, 5399.0, 5631.0, 5549.0, 5661.0, 5696.0, 5707.0, 5702.0, 5286.0, 5483.0, 5467.0, 5545.0, 5308.0, 5388.0, 5687.0, 5302.0, 5584.0, 5442.0, 5405.0, 5456.0, 5274.0, 5304.0, 5423.0, 5668.0, 5619.0, 5570.0, 5530.0, 5351.0, 5325.0, 5322.0, 5635.0, 5566.0, 5367.0, 5353.0, 5428.0, 5723.0, 5265.0, 5252.0, 5597.0, 5419.0, 5398.0, 5312.0, 5457.0, 5540.0, 5712.0, 5693.0, 5454.0, 5317.0, 5655.0, 5407.0, 5484.0, 5528.0, 5455.0, 5514.0, 5461.0, 5519.0, 5368.0, 5554.0, 5430.0, 5463.0, 5724.0, 5328.0, 5711.0, 5542.0, 5653.0, 5250.0, 5355.0, 5366.0, 5394.0, 5335.0, 5485.0, 5424.0, 5547.0, 5638.0, 5429.0, 5293.0, 5494.0, 5431.0, 5318.0, 5272.0, 5561.0, 5560.0, 5292.0, 5582.0, 5537.0, 5343.0, 5291.0, 5500.0, 5521.0, 5480.0, 5651.0, 5306.0, 5627.0, 5255.0 (number of hits: 4)
5	5260	9	1	333	1	5649.0, 5650.0, 5598.0, 5478.0, 5331.0, 5297.0, 5464.0, 5588.0, 5579.0, 5328.0, 5681.0, 5299.0, 5263.0, 5564.0, 5590.0, 5310.0, 5301.0, 5688.0, 5555.0, 5347.0, 5697.0, 5321.0, 5369.0, 5453.0, 5268.0, 5582.0, 5616.0, 5573.0, 5402.0, 5615.0, 5671.0, 5593.0, 5565.0, 5355.0, 5366.0, 5359.0, 5666.0, 5626.0, 5624.0, 5357.0, 5290.0, 5389.0, 5589.0, 5600.0, 5454.0, 5461.0, 5572.0, 5342.0, 5367.0, 5629.0, 5298.0, 5287.0, 5676.0, 5306.0, 5384.0, 5548.0, 5670.0, 5344.0, 5320.0, 5423.0, 5710.0, 5640.0, 5390.0, 5631.0, 5669.0, 5660.0, 5312.0, 5594.0, 5458.0, 5656.0, 5281.0, 5383.0, 5576.0, 5524.0, 5561.0, 5252.0, 5451.0, 5406.0, 5683.0, 5340.0, 5701.0, 5405.0, 5378.0, 5256.0, 5663.0, 5395.0, 5308.0, 5530.0, 5541.0, 5255.0, 5267.0, 5259.0, 5439.0, 5480.0, 5358.0, 5481.0, 5644.0, 5516.0, 5436.0, 5278.0 (number of hits: 7)
6	5260	9	1	333	1	5611.0, 5370.0, 5350.0, 5659.0, 5547.0, 5281.0, 5403.0, 5363.0, 5347.0, 5314.0, 5619.0, 5476.0, 5707.0, 5640.0, 5315.0, 5700.0, 5487.0, 5572.0, 5348.0, 5510.0, 5337.0, 5275.0, 5399.0, 5454.0, 5695.0, 5560.0, 5635.0, 5685.0, 5448.0, 5437.0, 5493.0, 5345.0, 5484.0, 5428.0, 5322.0, 5601.0, 5699.0, 5342.0, 5716.0, 5552.0, 5503.0, 5599.0, 5352.0, 5544.0, 5386.0, 5366.0, 5536.0, 5556.0, 5644.0, 5331.0,

						5326.0, 5405.0, 5603.0, 5598.0, 5438.0, 5397.0, 5673.0, 5588.0, 5564.0, 5718.0, 5459.0, 5587.0, 5396.0, 5254.0, 5292.0, 5335.0, 5410.0, 5706.0, 5534.0, 5265.0, 5381.0, 5660.0, 5336.0, 5323.0, 5623.0, 5505.0, 5546.0, 5274.0, 5435.0, 5502.0, 5303.0, 5662.0, 5262.0, 5709.0, 5494.0, 5308.0, 5526.0, 5421.0, 5543.0, 5686.0, 5328.0, 5567.0, 5272.0, 5667.0, 5374.0, 5367.0, 5422.0, 5645.0, 5349.0, 5652.0 (number of hits: 3)
7	5260	9	1	333	1	5575.0, 5397.0, 5369.0, 5461.0, 5481.0, 5712.0, 5636.0, 5311.0, 5681.0, 5377.0, 5378.0, 5574.0, 5570.0, 5718.0, 5584.0, 5500.0, 5484.0, 5349.0, 5449.0, 5464.0, 5621.0, 5301.0, 5289.0, 5696.0, 5425.0, 5620.0, 5508.0, 5646.0, 5548.0, 5722.0, 5633.0, 5664.0, 5579.0, 5507.0, 5443.0, 5565.0, 5630.0, 5400.0, 5648.0, 5624.0, 5719.0, 5323.0, 5442.0, 5254.0, 5355.0, 5569.0, 5303.0, 5585.0, 5387.0, 5256.0, 5676.0, 5374.0, 5317.0, 5297.0, 5671.0, 5538.0, 5539.0, 5642.0, 5511.0, 5521.0, 5329.0, 5497.0, 5560.0, 5512.0, 5562.0, 5444.0, 5629.0, 5429.0, 5631.0, 5503.0, 5692.0, 5649.0, 5413.0, 5331.0, 5333.0, 5343.0, 5472.0, 5588.0, 5652.0, 5644.0, 5456.0, 5268.0, 5502.0, 5260.0, 5661.0, 5287.0, 5592.0, 5382.0, 5279.0, 5515.0, 5682.0, 5263.0, 5278.0, 5685.0, 5635.0, 5514.0, 5361.0, 5701.0, 5296.0, 5431.0 (number of hits: 5)
8	5260	9	1	333	1	5525.0, 5654.0, 5581.0, 5499.0, 5514.0, 5472.0, 5360.0, 5623.0, 5331.0, 5364.0, 5671.0, 5314.0, 5345.0, 5585.0, 5577.0, 5513.0, 5669.0, 5637.0, 5678.0, 5493.0, 5546.0, 5339.0, 5301.0, 5478.0, 5361.0, 5316.0, 5639.0, 5634.0, 5396.0, 5363.0, 5555.0, 5353.0, 5656.0, 5647.0, 5698.0, 5632.0, 5456.0, 5541.0, 5601.0, 5597.0, 5526.0, 5719.0, 5256.0, 5673.0, 5425.0, 5450.0, 5379.0, 5633.0, 5531.0, 5592.0, 5252.0, 5657.0, 5290.0, 5658.0, 5348.0, 5670.0, 5576.0, 5492.0, 5368.0, 5419.0, 5549.0, 5432.0, 5295.0, 5646.0, 5251.0, 5517.0, 5488.0, 5338.0, 5460.0, 5607.0, 5689.0, 5587.0, 5470.0, 5319.0, 5259.0, 5426.0, 5380.0, 5291.0, 5264.0, 5388.0, 5399.0, 5414.0, 5325.0, 5356.0, 5705.0, 5474.0, 5421.0, 5696.0, 5590.0, 5443.0, 5300.0, 5320.0, 5619.0, 5640.0, 5720.0, 5591.0, 5710.0, 5378.0, 5395.0, 5611.0 (number of hits: 5)
9	5260	9	1	333	1	5714.0, 5369.0, 5288.0, 5601.0, 5441.0, 5683.0, 5556.0, 5315.0, 5307.0, 5391.0, 5578.0, 5306.0, 5592.0, 5712.0, 5474.0, 5388.0, 5446.0, 5631.0, 5313.0, 5402.0, 5692.0, 5405.0, 5380.0, 5398.0, 5259.0, 5713.0, 5428.0, 5610.0, 5347.0, 5649.0, 5411.0, 5691.0, 5571.0, 5720.0, 5522.0,

						5647.0, 5671.0, 5250.0, 5368.0, 5450.0, 5473.0, 5420.0, 5352.0, 5548.0, 5487.0, 5401.0, 5583.0, 5328.0, 5429.0, 5566.0, 5593.0, 5614.0, 5252.0, 5457.0, 5318.0, 5281.0, 5390.0, 5507.0, 5301.0, 5341.0, 5294.0, 5412.0, 5267.0, 5467.0, 5484.0, 5272.0, 5335.0, 5541.0, 5372.0, 5506.0, 5370.0, 5479.0, 5471.0, 5286.0, 5325.0, 5597.0, 5524.0, 5408.0, 5477.0, 5360.0, 5703.0, 5609.0, 5510.0, 5480.0, 5511.0, 5652.0, 5493.0, 5323.0, 5642.0, 5588.0, 5253.0, 5389.0, 5676.0, 5485.0, 5293.0, 5274.0, 5311.0, 5567.0, 5312.0, 5499.0 (number of hits: 5)
10	5260	9	1	333	1	5427.0, 5510.0, 5508.0, 5364.0, 5322.0, 5695.0, 5589.0, 5551.0, 5680.0, 5448.0, 5532.0, 5674.0, 5678.0, 5428.0, 5250.0, 5692.0, 5689.0, 5563.0, 5440.0, 5537.0, 5517.0, 5288.0, 5666.0, 5415.0, 5290.0, 5331.0, 5459.0, 5646.0, 5722.0, 5443.0, 5566.0, 5605.0, 5303.0, 5467.0, 5312.0, 5355.0, 5335.0, 5498.0, 5676.0, 5718.0, 5458.0, 5560.0, 5576.0, 5390.0, 5724.0, 5639.0, 5518.0, 5721.0, 5293.0, 5511.0, 5308.0, 5282.0, 5455.0, 5295.0, 5550.0, 5431.0, 5482.0, 5404.0, 5342.0, 5628.0, 5264.0, 5502.0, 5395.0, 5370.0, 5389.0, 5541.0, 5334.0, 5486.0, 5375.0, 5686.0, 5259.0, 5315.0, 5700.0, 5304.0, 5611.0, 5324.0, 5365.0, 5339.0, 5408.0, 5436.0, 5256.0, 5679.0, 5474.0, 5534.0, 5696.0, 5584.0, 5371.0, 5528.0, 5260.0, 5437.0, 5663.0, 5294.0, 5574.0, 5632.0, 5269.0, 5456.0, 5367.0, 5616.0, 5624.0, 5333.0 (number of hits: 6)
11	5260	9	1	333	1	5506.0, 5711.0, 5621.0, 5476.0, 5593.0, 5361.0, 5377.0, 5280.0, 5362.0, 5679.0, 5492.0, 5518.0, 5636.0, 5609.0, 5463.0, 5414.0, 5538.0, 5356.0, 5698.0, 5659.0, 5591.0, 5546.0, 5379.0, 5439.0, 5550.0, 5426.0, 5277.0, 5432.0, 5299.0, 5687.0, 5350.0, 5324.0, 5322.0, 5536.0, 5301.0, 5596.0, 5255.0, 5542.0, 5446.0, 5558.0, 5256.0, 5393.0, 5515.0, 5497.0, 5451.0, 5376.0, 5444.0, 5427.0, 5337.0, 5407.0, 5526.0, 5575.0, 5568.0, 5443.0, 5540.0, 5509.0, 5360.0, 5721.0, 5298.0, 5700.0, 5617.0, 5684.0, 5692.0, 5399.0, 5258.0, 5556.0, 5389.0, 5313.0, 5456.0, 5343.0, 5501.0, 5328.0, 5514.0, 5449.0, 5363.0, 5281.0, 5327.0, 5544.0, 5271.0, 5318.0, 5279.0, 5547.0, 5642.0, 5430.0, 5303.0, 5359.0, 5470.0, 5287.0, 5520.0, 5511.0, 5539.0, 5251.0, 5468.0, 5400.0, 5608.0, 5479.0, 5529.0, 5384.0, 5483.0, 5524.0 (number of hits: 4)
12	5260	9	1	333	1	5467.0, 5340.0, 5588.0, 5718.0, 5631.0, 5348.0, 5511.0, 5561.0, 5290.0, 5569.0, 5302.0, 5645.0, 5544.0, 5315.0, 5513.0, 5574.0, 5713.0, 5286.0, 5366.0, 5454.0,

						5368.0, 5491.0, 5682.0, 5571.0, 5594.0, 5268.0, 5722.0, 5478.0, 5591.0, 5252.0, 5548.0, 5607.0, 5641.0, 5529.0, 5359.0, 5541.0, 5392.0, 5640.0, 5652.0, 5386.0, 5635.0, 5405.0, 5474.0, 5545.0, 5363.0, 5384.0, 5305.0, 5665.0, 5438.0, 5642.0, 5686.0, 5506.0, 5465.0, 5604.0, 5328.0, 5407.0, 5527.0, 5598.0, 5634.0, 5565.0, 5597.0, 5672.0, 5504.0, 5483.0, 5429.0, 5387.0, 5313.0, 5709.0, 5667.0, 5706.0, 5379.0, 5276.0, 5361.0, 5296.0, 5253.0, 5673.0, 5351.0, 5695.0, 5480.0, 5434.0, 5583.0, 5382.0, 5553.0, 5563.0, 5309.0, 5365.0, 5616.0, 5487.0, 5383.0, 5485.0, 5303.0, 5446.0, 5624.0, 5346.0, 5273.0, 5605.0, 5612.0, 5639.0, 5585.0, 5462.0 (number of hits: 3)
13	5260	9	1	333	1	5714.0, 5301.0, 5305.0, 5606.0, 5355.0, 5682.0, 5558.0, 5670.0, 5378.0, 5291.0, 5579.0, 5381.0, 5569.0, 5319.0, 5716.0, 5576.0, 5572.0, 5489.0, 5438.0, 5341.0, 5445.0, 5425.0, 5468.0, 5493.0, 5272.0, 5255.0, 5448.0, 5516.0, 5610.0, 5419.0, 5332.0, 5546.0, 5536.0, 5275.0, 5390.0, 5336.0, 5394.0, 5352.0, 5571.0, 5427.0, 5552.0, 5371.0, 5634.0, 5346.0, 5618.0, 5363.0, 5588.0, 5252.0, 5375.0, 5688.0, 5464.0, 5693.0, 5616.0, 5723.0, 5577.0, 5311.0, 5432.0, 5268.0, 5422.0, 5553.0, 5318.0, 5652.0, 5623.0, 5508.0, 5713.0, 5705.0, 5707.0, 5463.0, 5369.0, 5663.0, 5442.0, 5635.0, 5685.0, 5397.0, 5326.0, 5316.0, 5673.0, 5653.0, 5674.0, 5540.0, 5512.0, 5627.0, 5430.0, 5400.0, 5295.0, 5396.0, 5603.0, 5293.0, 5481.0, 5547.0, 5496.0, 5366.0, 5581.0, 5611.0, 5323.0, 5500.0, 5585.0, 5362.0, 5630.0, 5628.0 (number of hits: 3)
14	5260	9	1	333	1	5298.0, 5718.0, 5388.0, 5273.0, 5555.0, 5383.0, 5623.0, 5489.0, 5715.0, 5711.0, 5545.0, 5654.0, 5380.0, 5455.0, 5572.0, 5428.0, 5453.0, 5523.0, 5710.0, 5564.0, 5374.0, 5641.0, 5705.0, 5619.0, 5403.0, 5624.0, 5358.0, 5696.0, 5622.0, 5538.0, 5294.0, 5540.0, 5491.0, 5357.0, 5680.0, 5614.0, 5486.0, 5652.0, 5683.0, 5335.0, 5387.0, 5606.0, 5457.0, 5519.0, 5361.0, 5495.0, 5352.0, 5714.0, 5306.0, 5589.0, 5330.0, 5274.0, 5346.0, 5339.0, 5716.0, 5290.0, 5581.0, 5621.0, 5492.0, 5565.0, 5604.0, 5669.0, 5416.0, 5649.0, 5593.0, 5389.0, 5666.0, 5509.0, 5567.0, 5685.0, 5627.0, 5343.0, 5525.0, 5340.0, 5332.0, 5321.0, 5437.0, 5430.0, 5320.0, 5530.0, 5712.0, 5262.0, 5318.0, 5482.0, 5255.0, 5384.0, 5647.0, 5250.0, 5505.0, 5402.0, 5677.0, 5349.0, 5534.0, 5480.0, 5365.0, 5381.0, 5698.0, 5345.0, 5275.0, 5615.0 (number of hits: 3)
15	5260	9	1	333	1	5257.0, 5668.0, 5386.0, 5413.0, 5559.0,

						5291.0, 5279.0, 5578.0, 5351.0, 5438.0, 5346.0, 5258.0, 5715.0, 5510.0, 5276.0, 5478.0, 5678.0, 5647.0, 5391.0, 5512.0, 5455.0, 5497.0, 5594.0, 5701.0, 5454.0, 5519.0, 5571.0, 5602.0, 5514.0, 5530.0, 5298.0, 5411.0, 5696.0, 5557.0, 5483.0, 5611.0, 5324.0, 5679.0, 5620.0, 5302.0, 5300.0, 5269.0, 5564.0, 5566.0, 5525.0, 5540.0, 5714.0, 5524.0, 5307.0, 5724.0, 5676.0, 5584.0, 5605.0, 5370.0, 5398.0, 5687.0, 5638.0, 5704.0, 5381.0, 5485.0, 5649.0, 5401.0, 5685.0, 5274.0, 5562.0, 5617.0, 5686.0, 5697.0, 5306.0, 5397.0, 5607.0, 5336.0, 5606.0, 5698.0, 5720.0, 5333.0, 5669.0, 5328.0, 5343.0, 5599.0, 5531.0, 5330.0, 5260.0, 5492.0, 5481.0, 5569.0, 5420.0, 5309.0, 5252.0, 5579.0, 5446.0, 5534.0, 5552.0, 5520.0, 5527.0, 5570.0, 5592.0, 5369.0, 5699.0, 5440.0 (number of hits: 5)
16	5260	9	1	333	1	5658.0, 5634.0, 5506.0, 5590.0, 5395.0, 5704.0, 5400.0, 5531.0, 5278.0, 5540.0, 5582.0, 5564.0, 5257.0, 5529.0, 5373.0, 5513.0, 5393.0, 5381.0, 5366.0, 5550.0, 5518.0, 5365.0, 5386.0, 5606.0, 5470.0, 5705.0, 5508.0, 5629.0, 5376.0, 5549.0, 5407.0, 5611.0, 5260.0, 5649.0, 5347.0, 5685.0, 5616.0, 5252.0, 5478.0, 5515.0, 5396.0, 5477.0, 5280.0, 5328.0, 5319.0, 5422.0, 5259.0, 5340.0, 5602.0, 5573.0, 5417.0, 5679.0, 5695.0, 5253.0, 5326.0, 5413.0, 5599.0, 5668.0, 5289.0, 5325.0, 5511.0, 5640.0, 5346.0, 5426.0, 5336.0, 5686.0, 5338.0, 5617.0, 5345.0, 5703.0, 5350.0, 5715.0, 5662.0, 5339.0, 5437.0, 5665.0, 5609.0, 5419.0, 5291.0, 5667.0, 5315.0, 5672.0, 5434.0, 5624.0, 5489.0, 5694.0, 5584.0, 5562.0, 5258.0, 5638.0, 5592.0, 5713.0, 5429.0, 5680.0, 5588.0, 5572.0, 5700.0, 5352.0, 5296.0, 5367.0 (number of hits: 6)
17	5260	9	1	333	1	5678.0, 5534.0, 5643.0, 5548.0, 5383.0, 5507.0, 5372.0, 5293.0, 5544.0, 5461.0, 5389.0, 5374.0, 5323.0, 5367.0, 5607.0, 5373.0, 5503.0, 5706.0, 5674.0, 5412.0, 5328.0, 5631.0, 5648.0, 5577.0, 5690.0, 5501.0, 5395.0, 5258.0, 5407.0, 5469.0, 5306.0, 5483.0, 5458.0, 5588.0, 5359.0, 5332.0, 5521.0, 5517.0, 5326.0, 5475.0, 5634.0, 5677.0, 5289.0, 5630.0, 5516.0, 5645.0, 5375.0, 5424.0, 5651.0, 5428.0, 5580.0, 5531.0, 5716.0, 5530.0, 5441.0, 5709.0, 5671.0, 5488.0, 5257.0, 5659.0, 5667.0, 5624.0, 5484.0, 5477.0, 5361.0, 5462.0, 5460.0, 5434.0, 5556.0, 5570.0, 5343.0, 5356.0, 5321.0, 5397.0, 5557.0, 5680.0, 5437.0, 5593.0, 5466.0, 5376.0, 5277.0, 5672.0, 5582.0, 5467.0, 5303.0, 5380.0, 5514.0, 5546.0, 5673.0, 5722.0, 5496.0, 5670.0, 5453.0, 5446.0, 5267.0,

						5340.0, 5290.0, 5724.0, 5637.0, 5666.0 (number of hits: 3)
18	5260	9	1	333	1	5291.0, 5358.0, 5334.0, 5572.0, 5529.0, 5539.0, 5310.0, 5650.0, 5679.0, 5568.0, 5506.0, 5341.0, 5484.0, 5721.0, 5385.0, 5302.0, 5376.0, 5542.0, 5605.0, 5647.0, 5711.0, 5496.0, 5386.0, 5712.0, 5469.0, 5313.0, 5321.0, 5375.0, 5477.0, 5361.0, 5669.0, 5333.0, 5377.0, 5602.0, 5421.0, 5689.0, 5285.0, 5723.0, 5707.0, 5569.0, 5571.0, 5615.0, 5283.0, 5317.0, 5398.0, 5633.0, 5578.0, 5257.0, 5474.0, 5400.0, 5500.0, 5343.0, 5417.0, 5685.0, 5684.0, 5651.0, 5537.0, 5499.0, 5369.0, 5505.0, 5698.0, 5667.0, 5492.0, 5388.0, 5371.0, 5515.0, 5441.0, 5696.0, 5270.0, 5306.0, 5440.0, 5683.0, 5547.0, 5626.0, 5575.0, 5423.0, 5514.0, 5389.0, 5307.0, 5574.0, 5352.0, 5517.0, 5674.0, 5356.0, 5287.0, 5531.0, 5595.0, 5301.0, 5411.0, 5678.0, 5432.0, 5392.0, 5267.0, 5653.0, 5607.0, 5366.0, 5370.0, 5630.0, 5660.0, 5450.0 (number of hits: 2)
19	5260	9	1	333	1	5630.0, 5458.0, 5264.0, 5257.0, 5621.0, 5400.0, 5668.0, 5598.0, 5326.0, 5540.0, 5500.0, 5708.0, 5617.0, 5362.0, 5373.0, 5287.0, 5572.0, 5477.0, 5527.0, 5582.0, 5619.0, 5270.0, 5507.0, 5360.0, 5707.0, 5386.0, 5592.0, 5322.0, 5481.0, 5279.0, 5348.0, 5454.0, 5511.0, 5414.0, 5643.0, 5615.0, 5612.0, 5664.0, 5499.0, 5657.0, 5427.0, 5653.0, 5319.0, 5268.0, 5289.0, 5629.0, 5588.0, 5378.0, 5625.0, 5467.0, 5568.0, 5487.0, 5280.0, 5489.0, 5317.0, 5543.0, 5705.0, 5350.0, 5271.0, 5312.0, 5283.0, 5437.0, 5696.0, 5484.0, 5584.0, 5410.0, 5488.0, 5297.0, 5358.0, 5513.0, 5398.0, 5577.0, 5302.0, 5381.0, 5256.0, 5380.0, 5491.0, 5407.0, 5650.0, 5465.0, 5526.0, 5640.0, 5544.0, 5405.0, 5416.0, 5524.0, 5567.0, 5363.0, 5599.0, 5531.0, 5325.0, 5695.0, 5529.0, 5522.0, 5551.0, 5677.0, 5660.0, 5590.0, 5517.0, 5273.0 (number of hits: 4)
20	5260	9	1	333	1	5405.0, 5611.0, 5640.0, 5400.0, 5708.0, 5329.0, 5648.0, 5536.0, 5539.0, 5629.0, 5567.0, 5380.0, 5673.0, 5620.0, 5698.0, 5656.0, 5713.0, 5651.0, 5513.0, 5337.0, 5268.0, 5310.0, 5399.0, 5477.0, 5691.0, 5563.0, 5323.0, 5282.0, 5685.0, 5463.0, 5367.0, 5608.0, 5372.0, 5690.0, 5580.0, 5425.0, 5458.0, 5671.0, 5368.0, 5470.0, 5448.0, 5582.0, 5327.0, 5664.0, 5469.0, 5461.0, 5424.0, 5374.0, 5569.0, 5384.0, 5579.0, 5390.0, 5574.0, 5450.0, 5475.0, 5526.0, 5649.0, 5467.0, 5440.0, 5462.0, 5336.0, 5558.0, 5493.0, 5642.0, 5433.0, 5677.0, 5694.0, 5252.0, 5407.0, 5292.0, 5551.0, 5265.0, 5420.0, 5555.0, 5259.0, 5432.0, 5540.0, 5647.0, 5682.0, 5303.0,

						5706.0, 5658.0, 5308.0, 5602.0, 5300.0, 5267.0, 5376.0, 5260.0, 5604.0, 5257.0, 5375.0, 5291.0, 5266.0, 5676.0, 5385.0, 5403.0, 5693.0, 5338.0, 5576.0, 5326.0 (number of hits: 8)
21	5260	9	1	333	1	5265.0, 5289.0, 5653.0, 5411.0, 5386.0, 5331.0, 5327.0, 5330.0, 5480.0, 5667.0, 5625.0, 5348.0, 5648.0, 5481.0, 5367.0, 5457.0, 5251.0, 5460.0, 5258.0, 5426.0, 5383.0, 5695.0, 5504.0, 5357.0, 5698.0, 5434.0, 5472.0, 5262.0, 5652.0, 5594.0, 5521.0, 5680.0, 5494.0, 5490.0, 5474.0, 5347.0, 5547.0, 5566.0, 5557.0, 5722.0, 5647.0, 5599.0, 5496.0, 5581.0, 5535.0, 5526.0, 5720.0, 5453.0, 5616.0, 5392.0, 5443.0, 5619.0, 5451.0, 5543.0, 5574.0, 5495.0, 5651.0, 5662.0, 5285.0, 5420.0, 5345.0, 5503.0, 5282.0, 5486.0, 5532.0, 5520.0, 5703.0, 5597.0, 5525.0, 5318.0, 5260.0, 5632.0, 5375.0, 5295.0, 5723.0, 5322.0, 5272.0, 5710.0, 5571.0, 5283.0, 5294.0, 5337.0, 5669.0, 5606.0, 5404.0, 5621.0, 5444.0, 5560.0, 5311.0, 5674.0, 5612.0, 5393.0, 5479.0, 5582.0, 5533.0, 5389.0, 5435.0, 5636.0, 5613.0, 5661.0 (number of hits: 5)
22	5260	9	1	333	1	5311.0, 5648.0, 5423.0, 5366.0, 5477.0, 5276.0, 5352.0, 5468.0, 5612.0, 5676.0, 5350.0, 5320.0, 5586.0, 5439.0, 5372.0, 5481.0, 5319.0, 5356.0, 5484.0, 5644.0, 5511.0, 5650.0, 5445.0, 5509.0, 5512.0, 5492.0, 5371.0, 5274.0, 5660.0, 5671.0, 5640.0, 5475.0, 5262.0, 5302.0, 5557.0, 5434.0, 5453.0, 5313.0, 5293.0, 5720.0, 5378.0, 5537.0, 5664.0, 5573.0, 5261.0, 5454.0, 5504.0, 5414.0, 5339.0, 5383.0, 5719.0, 5391.0, 5717.0, 5614.0, 5299.0, 5718.0, 5651.0, 5255.0, 5368.0, 5531.0, 5661.0, 5712.0, 5358.0, 5392.0, 5250.0, 5590.0, 5690.0, 5259.0, 5615.0, 5569.0, 5428.0, 5645.0, 5470.0, 5585.0, 5430.0, 5574.0, 5626.0, 5542.0, 5625.0, 5622.0, 5357.0, 5667.0, 5316.0, 5440.0, 5543.0, 5559.0, 5498.0, 5478.0, 5334.0, 5411.0, 5566.0, 5571.0, 5580.0, 5521.0, 5461.0, 5588.0, 5393.0, 5451.0, 5482.0, 5500.0 (number of hits: 5)
23	5260	9	1	333	1	5383.0, 5445.0, 5422.0, 5501.0, 5549.0, 5522.0, 5678.0, 5290.0, 5363.0, 5601.0, 5254.0, 5310.0, 5669.0, 5382.0, 5468.0, 5633.0, 5558.0, 5461.0, 5630.0, 5718.0, 5271.0, 5416.0, 5396.0, 5299.0, 5720.0, 5521.0, 5268.0, 5543.0, 5428.0, 5636.0, 5436.0, 5388.0, 5255.0, 5474.0, 5542.0, 5544.0, 5311.0, 5685.0, 5399.0, 5402.0, 5687.0, 5478.0, 5559.0, 5352.0, 5325.0, 5333.0, 5465.0, 5688.0, 5616.0, 5707.0, 5518.0, 5581.0, 5314.0, 5401.0, 5499.0, 5442.0, 5571.0, 5708.0, 5424.0, 5300.0, 5505.0, 5264.0, 5280.0, 5250.0, 5377.0,

						5690.0, 5691.0, 5483.0, 5563.0, 5370.0, 5458.0, 5435.0, 5540.0, 5317.0, 5703.0, 5324.0, 5702.0, 5569.0, 5321.0, 5634.0, 5710.0, 5677.0, 5434.0, 5472.0, 5603.0, 5664.0, 5694.0, 5467.0, 5649.0, 5357.0, 5516.0, 5523.0, 5398.0, 5307.0, 5460.0, 5423.0, 5354.0, 5723.0, 5412.0, 5500.0 (number of hits: 5)
24	5260	9	1	333	0	-
25	5260	9	1	333	1	5550.0, 5338.0, 5514.0, 5341.0, 5602.0, 5679.0, 5431.0, 5529.0, 5454.0, 5554.0, 5442.0, 5648.0, 5492.0, 5330.0, 5347.0, 5576.0, 5593.0, 5321.0, 5604.0, 5258.0, 5395.0, 5502.0, 5386.0, 5396.0, 5435.0, 5531.0, 5525.0, 5447.0, 5259.0, 5392.0, 5478.0, 5544.0, 5538.0, 5329.0, 5473.0, 5350.0, 5507.0, 5680.0, 5695.0, 5580.0, 5606.0, 5437.0, 5380.0, 5472.0, 5660.0, 5618.0, 5641.0, 5322.0, 5624.0, 5480.0, 5574.0, 5503.0, 5717.0, 5420.0, 5438.0, 5482.0, 5540.0, 5343.0, 5504.0, 5509.0, 5669.0, 5591.0, 5428.0, 5546.0, 5342.0, 5376.0, 5676.0, 5724.0, 5530.0, 5312.0, 5272.0, 5361.0, 5567.0, 5693.0, 5656.0, 5674.0, 5357.0, 5520.0, 5703.0, 5413.0, 5558.0, 5426.0, 5654.0, 5466.0, 5657.0, 5542.0, 5569.0, 5441.0, 5253.0, 5460.0, 5261.0, 5464.0, 5590.0, 5430.0, 5600.0, 5586.0, 5468.0, 5348.0, 5471.0, 5349.0 (number of hits: 4)
26	5260	9	1	333	1	5396.0, 5575.0, 5581.0, 5394.0, 5681.0, 5472.0, 5702.0, 5535.0, 5546.0, 5361.0, 5706.0, 5580.0, 5485.0, 5624.0, 5607.0, 5628.0, 5720.0, 5514.0, 5323.0, 5586.0, 5273.0, 5277.0, 5260.0, 5609.0, 5307.0, 5549.0, 5490.0, 5251.0, 5438.0, 5588.0, 5270.0, 5252.0, 5484.0, 5573.0, 5401.0, 5286.0, 5316.0, 5648.0, 5320.0, 5469.0, 5434.0, 5384.0, 5299.0, 5696.0, 5563.0, 5327.0, 5501.0, 5366.0, 5410.0, 5522.0, 5723.0, 5382.0, 5345.0, 5379.0, 5347.0, 5666.0, 5713.0, 5431.0, 5543.0, 5355.0, 5408.0, 5259.0, 5342.0, 5670.0, 5674.0, 5505.0, 5562.0, 5646.0, 5329.0, 5653.0, 5281.0, 5322.0, 5421.0, 5547.0, 5495.0, 5423.0, 5531.0, 5451.0, 5597.0, 5570.0, 5287.0, 5578.0, 5664.0, 5668.0, 5592.0, 5572.0, 5488.0, 5483.0, 5528.0, 5647.0, 5541.0, 5657.0, 5400.0, 5339.0, 5385.0, 5510.0, 5374.0, 5526.0, 5476.0, 5600.0 (number of hits: 4)
27	5260	9	1	333	0	-
28	5260	9	1	333	1	5562.0, 5415.0, 5698.0, 5278.0, 5622.0, 5606.0, 5414.0, 5309.0, 5434.0, 5280.0, 5352.0, 5266.0, 5334.0, 5610.0, 5711.0, 5564.0, 5327.0, 5637.0, 5536.0, 5548.0, 5528.0, 5326.0, 5496.0, 5353.0, 5505.0, 5256.0, 5704.0, 5640.0, 5323.0, 5676.0, 5586.0, 5357.0, 5276.0, 5535.0, 5433.0, 5447.0, 5445.0, 5530.0, 5455.0, 5417.0,

						5720.0, 5691.0, 5423.0, 5492.0, 5379.0, 5285.0, 5383.0, 5656.0, 5661.0, 5625.0, 5385.0, 5275.0, 5268.0, 5623.0, 5386.0, 5522.0, 5348.0, 5366.0, 5306.0, 5624.0, 5609.0, 5579.0, 5382.0, 5254.0, 5259.0, 5526.0, 5441.0, 5474.0, 5556.0, 5284.0, 5618.0, 5533.0, 5468.0, 5511.0, 5659.0, 5518.0, 5540.0, 5269.0, 5513.0, 5636.0, 5460.0, 5633.0, 5617.0, 5596.0, 5547.0, 5673.0, 5255.0, 5324.0, 5375.0, 5575.0, 5307.0, 5378.0, 5517.0, 5539.0, 5364.0, 5448.0, 5709.0, 5692.0, 5515.0, 5373.0 (number of hits: 7)
29	5260	9	1	333	1	5257.0, 5306.0, 5578.0, 5718.0, 5343.0, 5396.0, 5674.0, 5407.0, 5326.0, 5424.0, 5338.0, 5318.0, 5360.0, 5679.0, 5709.0, 5388.0, 5263.0, 5680.0, 5320.0, 5598.0, 5409.0, 5350.0, 5302.0, 5253.0, 5292.0, 5460.0, 5543.0, 5270.0, 5258.0, 5376.0, 5303.0, 5375.0, 5369.0, 5481.0, 5366.0, 5499.0, 5619.0, 5413.0, 5260.0, 5421.0, 5607.0, 5416.0, 5544.0, 5492.0, 5525.0, 5683.0, 5592.0, 5485.0, 5465.0, 5439.0, 5532.0, 5420.0, 5363.0, 5717.0, 5574.0, 5609.0, 5448.0, 5309.0, 5344.0, 5359.0, 5381.0, 5370.0, 5583.0, 5453.0, 5626.0, 5310.0, 5469.0, 5291.0, 5333.0, 5315.0, 5337.0, 5286.0, 5634.0, 5537.0, 5357.0, 5276.0, 5684.0, 5489.0, 5501.0, 5646.0, 5697.0, 5340.0, 5354.0, 5450.0, 5390.0, 5484.0, 5382.0, 5545.0, 5696.0, 5352.0, 5410.0, 5391.0, 5724.0, 5322.0, 5658.0, 5640.0, 5477.0, 5721.0, 5542.0, 5602.0 (number of hits: 5)
30	5260	9	1	333	1	5631.0, 5525.0, 5490.0, 5705.0, 5571.0, 5411.0, 5481.0, 5683.0, 5333.0, 5394.0, 5599.0, 5326.0, 5689.0, 5327.0, 5369.0, 5478.0, 5460.0, 5271.0, 5659.0, 5716.0, 5652.0, 5337.0, 5610.0, 5268.0, 5616.0, 5278.0, 5627.0, 5534.0, 5250.0, 5559.0, 5713.0, 5415.0, 5549.0, 5410.0, 5694.0, 5601.0, 5655.0, 5383.0, 5380.0, 5574.0, 5521.0, 5442.0, 5684.0, 5667.0, 5451.0, 5591.0, 5297.0, 5312.0, 5572.0, 5288.0, 5485.0, 5258.0, 5629.0, 5354.0, 5557.0, 5427.0, 5296.0, 5524.0, 5404.0, 5353.0, 5391.0, 5682.0, 5449.0, 5447.0, 5432.0, 5595.0, 5686.0, 5445.0, 5642.0, 5702.0, 5638.0, 5646.0, 5331.0, 5710.0, 5540.0, 5535.0, 5435.0, 5581.0, 5555.0, 5461.0, 5708.0, 5292.0, 5511.0, 5310.0, 5324.0, 5347.0, 5342.0, 5452.0, 5336.0, 5257.0, 5562.0, 5386.0, 5566.0, 5537.0, 5402.0, 5476.0, 5361.0, 5313.0, 5593.0, 5455.0 (number of hits: 4)

5270 MHz, 40 MHz Bandwidth**Table-1 Radar Type 1A/1B Statistical Performance**

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5270	63	1	838	1
2	5270	78	1	678	1
3	5270	61	1	878	1
4	5270	83	1	638	1
5	5270	92	1	578	1
6	5251	89	1	598	1
7	5251	81	1	658	1
8	5251	99	1	538	1
9	5251	86	1	618	1
10	5251	62	1	858	1
11	5289	18	1	3066	1
12	5289	76	1	698	1
13	5289	95	1	558	1
14	5289	57	1	938	1
15	5289	65	1	818	1
16	5270	69	1	771	1
17	5270	33	1	1622	1
18	5270	25	1	2146	1
19	5270	40	1	1322	1
20	5270	20	1	2683	1
21	5251	23	1	2301	1
22	5251	18	1	3043	1
23	5251	42	1	1264	1
24	5251	19	1	2835	0
25	5251	21	1	2603	1
26	5289	96	1	552	1
27	5289	49	1	1089	1
28	5289	30	1	1785	1
29	5289	24	1	2289	1
30	5289	26	1	2065	1
Detection Percentage: 96.7 % (>60%)					

Table-2 Radar Type 2 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5270	27	1	175	1
2	5270	25	4.1	219	1
3	5270	29	4.2	176	1
4	5270	28	4.5	208	1
5	5270	29	2.8	220	0
6	5270	28	3.2	189	1
7	5270	23	1.3	155	1
8	5270	25	3.6	181	1
9	5270	24	3.9	199	0
10	5270	28	4.4	219	1
11	5251	29	2.8	190	1
12	5251	26	2.8	189	1
13	5251	27	1.3	207	1
14	5251	25	3.5	186	1
15	5251	24	1.7	175	1
16	5251	29	3	226	1
17	5251	29	2	157	1
18	5251	28	4.1	177	1
19	5251	27	1.8	199	1
20	5251	28	2	227	1
21	5289	28	2.4	179	1
22	5289	27	1.2	211	1
23	5289	23	1.2	208	1
24	5289	27	2.8	192	1
25	5289	29	2.9	184	0
26	5289	28	2.2	167	1
27	5289	27	4.8	204	1
28	5289	25	1	210	1
29	5289	28	2.8	223	1
30	5289	27	1.6	224	1
Detection Percentage: 90 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5270	17	6.1	428	1
2	5270	16	6.2	220	1
3	5270	18	9.8	268	1
4	5270	18	8.8	454	1
5	5270	17	6.4	263	1
6	5270	18	8.3	291	1
7	5270	17	9.3	386	1
8	5270	18	8.9	323	1
9	5270	17	8.1	400	1
10	5270	18	9.2	205	1
11	5251	16	6.5	361	1
12	5251	18	6.5	407	1
13	5251	17	9	408	1
14	5251	17	7.4	404	1
15	5251	17	6.9	228	1
16	5251	17	9.8	288	1
17	5251	16	9.7	406	1
18	5251	16	6.3	497	1
19	5251	18	7.6	440	1
20	5251	18	7.8	306	1
21	5289	16	7.3	208	1
22	5289	17	9.4	235	1
23	5289	18	9.7	280	0
24	5289	18	7.5	406	0
25	5289	16	9.7	452	1
26	5289	18	6.1	386	1
27	5289	16	8.8	212	0
28	5289	18	9.2	383	1
29	5289	16	8.5	244	1
30	5289	16	6.1	409	1
Detection Percentage: 90 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5270	12	15.9	434	1
2	5270	12	15.7	373	1
3	5270	14	15.7	472	1
4	5270	12	12.6	496	1
5	5270	12	15.8	235	1
6	5270	12	17.2	274	1
7	5270	13	13	251	1
8	5270	13	17.7	408	1
9	5270	13	11.2	223	1
10	5270	15	12.3	369	1
11	5251	16	18	375	1
12	5251	12	13.3	293	1
13	5251	12	16.9	201	1
14	5251	15	19.6	440	1
15	5251	12	14	297	1
16	5251	13	18.7	464	0
17	5251	13	15.5	452	1
18	5251	14	16.5	433	1
19	5251	16	12.8	246	1
20	5251	13	17.1	256	1
21	5289	13	14.8	318	1
22	5289	13	18.2	450	1
23	5289	15	18.5	450	1
24	5289	16	14.3	285	1
25	5289	13	14.3	459	1
26	5289	12	18.3	400	1
27	5289	13	13	200	0
28	5289	14	16.5	321	1
29	5289	16	12.4	300	1
30	5289	12	18.5	328	1
Detection Percentage: 93.3% (>60%)					

Table-5 Radar Type 5 Statistical Performance

Trial #	Fc (MHz)	Detection (1:yes; 0:no)
1	5270	1
2	5270	1
3	5270	1
4	5270	1
5	5270	1
6	5270	1
7	5270	1
8	5270	1
9	5270	1
10	5270	1
11	5257.5	1
12	5253.9	1
13	5258.3	0
14	5257.9	0
15	5254.3	1
16	5259.5	1
17	5254.7	1
18	5256.3	1
19	5255.9	1
20	5255.5	1
21	5286.1	1
22	5284.9	1
23	5283.3	1
24	5285.7	1
25	5282.1	1
26	5286.1	1
27	5284.5	1
28	5286.1	1
29	5283.7	1
30	5282.5	1
Detection Percentage: 93.33 % (>80%)		

Bin5 Statistics 1

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	12	95.6	1630	1078	0.58976	1
1	3	12	54.4	1110	1670	0.803049	
2	1	12	63.6	-	-	1.802287	
3	2	12	92.8	1075	-	2.803241	
4	2	12	95.2	1801	-	3.621625	
5	2	12	57	1428	-	3.851843	
6	2	12	79	1789	-	4.540215	
7	2	12	93.1	1337	-	5.591946	
8	1	12	52.6	-	-	6.586707	
9	2	12	78.1	1218	-	7.473316	
10	2	12	69.2	1718	-	7.676186	
11	2	12	64.3	1208	-	8.552978	
12	3	12	80.8	1868	1464	9.68721	
13	2	12	94	1867	-	10.129806	
14	1	12	76.4	-	-	10.628697	
15	2	12	99.5	1673	-	11.817623	

Bin5 Statistics 2

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	2	7	76.9	1330	-	0.497924	1
1	3	7	54.7	1216	1684	1.000868	
2	3	7	70.1	1476	1292	1.934214	
3	3	7	95.1	1543	1590	2.277365	
4	3	7	96.5	1683	1490	2.668692	
5	2	7	73.7	1461	-	3.381507	
6	2	7	77.7	1891	-	4.625851	
7	3	7	68.2	1349	1611	5.287656	
8	2	7	87.9	1441	-	5.842602	
9	2	7	80.2	1039	-	6.081449	
10	3	7	68.8	1544	1201	7.184274	
11	2	7	83.6	1472	-	7.719251	
12	3	7	81.5	1946	1177	8.049432	
13	2	7	99.3	1162	-	9.134411	
14	2	7	64.3	1767	-	9.464353	
15	1	7	93	-	-	10.663033	
16	1	7	76.8	-	-	11.247328	
17	3	7	96.2	1474	1040	11.33833	

Bin5 Statistics 3

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	9	69.2	1979	1581	0.488719	1
1	1	9	64	-	-	0.804118	
2	3	9	60.9	1791	1445	1.400289	
3	3	9	56.1	1990	1151	2.511735	
4	3	9	93.8	1721	1963	2.958393	
5	2	9	97.6	1939	-	3.799162	
6	3	9	61.9	1176	1455	4.188269	
7	1	9	57.5	-	-	4.88738	
8	2	9	54.2	1070	-	5.407348	
9	1	9	63.1	-	-	6.317823	
10	2	9	87.2	1305	-	6.961946	
11	2	9	77.7	1720	-	7.686613	
12	2	9	60.7	1190	-	8.631584	
13	1	9	65.3	-	-	8.813626	
14	3	9	81	1554	1473	9.846216	
15	2	9	85.6	1290	-	10.263699	
16	2	9	69.2	1853	-	11.324277	
17	2	9	89.6	1072	-	11.353518	

Bin5 Statistics 4

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	12	77.6	1425	1958	0.874042	1
1	2	12	76	1443	-	2.085533	
2	2	12	63.2	1972	-	2.807009	
3	1	12	73.8	-	-	4.047017	
4	2	12	51.4	1707	-	6.661286	
5	2	12	94.7	1648	-	7.101398	
6	2	12	61.1	1828	-	8.844727	
7	3	12	93.3	1354	1325	9.969793	
8	3	12	51.9	1715	1666	10.727105	

Bin5 Statistics 5

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	5	50.5	1242	1660	0.540251	1
1	2	5	71.5	1990	-	1.454582	
2	2	5	94.2	1727	-	2.160534	
3	1	5	92.6	-	-	2.765383	
4	2	5	86.8	1109	-	3.265189	
5	1	5	57.2	-	-	4.011522	
6	1	5	58.5	-	-	5.358806	
7	2	5	75.5	1704	-	6.337314	
8	2	5	74.2	1199	-	6.868162	
9	2	5	80.6	1357	-	7.835076	
10	3	5	68.3	1776	1974	8.239977	
11	2	5	71.1	1715	-	9.216679	
12	1	5	77.3	-	-	9.703464	
13	2	5	66.4	1756	-	10.907466	
14	1	5	73.9	-	-	11.434133	

Bin5 Statistics 6

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	7	82	1741	1170	0.068194	1
1	2	7	70.1	1517	-	0.929848	
2	3	7	70.2	1763	1923	1.736765	
3	2	7	86.4	1936	-	2.315197	
4	2	7	95.9	1445	-	3.47752	
5	2	7	75	1538	-	3.818416	
6	2	7	63.8	1960	-	4.703301	
7	2	7	71.4	1527	-	4.970339	
8	1	7	93.1	-	-	6.225125	
9	2	7	59.8	1211	-	7.028918	
10	3	7	95.6	1293	1380	7.326511	
11	2	7	91	1670	-	8.240238	
12	2	7	59.5	1764	-	8.781041	
13	3	7	64.9	1591	1461	9.774191	
14	3	7	76.3	1168	1555	10.175792	
15	2	7	80.6	1125	-	10.771553	
16	3	7	72.8	1061	1666	11.9943	

Bin5 Statistics 7

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	1	10	70.5	-	-	0.417381	1
1	2	10	81.5	1486	-	1.068376	
2	3	10	87.9	1228	1055	2.702766	
3	2	10	70.1	1882	-	3.541406	
4	1	10	84	-	-	4.681508	
5	1	10	99	-	-	5.329425	
6	3	10	61.5	1335	1055	6.563887	
7	3	10	84.3	1493	1142	7.915139	
8	2	10	51.4	1484	-	8.739023	
9	3	10	55.4	1946	1835	9.842909	
10	2	10	59.9	1896	-	10.989687	
11	2	10	77.6	1899	-	11.85965	

Bin5 Statistics 8

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	11	72.5	1602	1818	0.55506	1
1	2	11	63.7	1179	-	0.794229	
2	2	11	97.2	1043	-	2.047049	
3	3	11	74.3	1237	1060	2.169716	
4	2	11	84.4	1372	-	2.898011	
5	3	11	86	1286	1686	3.666659	
6	1	11	52	-	-	4.390102	
7	3	11	55.4	1383	1488	5.501076	
8	2	11	87.2	1330	-	5.982414	
9	2	11	90.9	1384	-	6.730046	
10	2	11	76.8	1613	-	7.13652	
11	2	11	79.7	1656	-	7.988809	
12	2	11	81.9	1420	-	8.639355	
13	3	11	58.9	1271	1087	9.394985	
14	2	11	89.7	1124	-	10.013972	
15	3	11	95.5	1484	1987	11.152858	
16	2	11	57.8	1323	-	11.487613	

Bin5 Statistics 9

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	1	12	96.1	-	-	0.791241	1
1	3	12	74	1569	1518	1.04415	
2	2	12	51.2	1274	-	2.036388	
3	3	12	80.9	1343	1632	2.762776	
4	2	12	59.3	1607	-	3.953933	
5	1	12	59.8	-	-	4.056396	
6	1	12	91.4	-	-	5.513054	
7	1	12	62.5	-	-	5.789998	
8	2	12	84.4	1683	-	7.030142	
9	1	12	75.7	-	-	7.514294	
10	1	12	79.1	-	-	8.159649	
11	1	12	78.8	-	-	9.293032	
12	2	12	50.5	1499	-	9.9648	
13	1	12	60.2	-	-	10.882638	
14	3	12	59.6	1021	1351	11.639879	

Bin5 Statistics 10

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	2	16	66.1	1194	-	0.195264	1
1	2	16	74.6	1990	-	2.631462	
2	1	16	95.8	-	-	3.301751	
3	1	16	91.6	-	-	4.300183	
4	2	16	54.8	1604	-	5.885556	
5	1	16	89.4	-	-	7.150872	
6	2	16	98.5	1293	-	8.886964	
7	2	16	99.7	1049	-	10.594722	
8	2	16	54.6	1997	-	11.555389	

Bin5 Statistics 11

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	15	55.6	1448	1880	0.096066	1
1	1	15	70.9	-	-	2.071324	
2	2	15	61.8	1633	-	3.261371	
3	1	15	87.7	-	-	4.233656	
4	2	15	62.6	1900	-	5.095049	
5	2	15	67	1422	-	6.790767	
6	1	15	95.7	-	-	7.888694	
7	1	15	88.3	-	-	9.319797	
8	3	15	66.4	1214	1291	10.172224	
9	1	15	75.1	-	-	11.189235	

Bin5 Statistics 12

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	1	6	52.6	-	-	0.084841	1
1	1	6	96.3	-	-	1.030634	
2	2	6	88	1629	-	1.758671	
3	2	6	58.6	1765	-	2.319885	
4	2	6	89.3	1090	-	3.392219	
5	3	6	74	1178	1622	3.939597	
6	1	6	82.6	-	-	4.913809	
7	2	6	62	1463	-	5.663166	
8	3	6	56.8	1665	1474	6.635221	
9	2	6	79.7	1500	-	7.309221	
10	3	6	94.4	1376	1719	7.840088	
11	3	6	87.2	1473	1873	8.628727	
12	1	6	50.6	-	-	9.274051	
13	2	6	67.3	1447	-	9.824088	
14	1	6	63.3	-	-	10.904691	
15	2	6	67.4	1563	-	11.602145	

Bin5 Statistics 13

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	1	17	72.4	-	-	0.588466	0
1	2	17	52.8	1112	-	1.382982	
2	3	17	65	1915	1285	2.158322	
3	2	17	91	1915	-	3.686519	
4	3	17	63.9	1320	1232	3.748634	
5	1	17	92.3	-	-	4.722831	
6	2	17	96.7	1876	-	5.854312	
7	3	17	97	1443	1895	7.373009	
8	2	17	77.7	1456	-	7.792733	
9	1	17	72.6	-	-	9.223337	
10	3	17	79.2	1716	1168	10.083571	
11	1	17	59.8	-	-	10.842387	
12	1	17	99.8	-	-	11.719118	

Bin5 Statistics 14

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	2	16	52.4	1105	-	0.739457	0
1	2	16	99.9	1869	-	1.495496	
2	1	16	79.4	-	-	2.929753	
3	1	16	66.7	-	-	3.382328	
4	2	16	67.5	1947	-	5.248888	
5	2	16	86.3	1384	-	6.155676	
6	1	16	72.9	-	-	6.608692	
7	1	16	69.8	-	-	7.848581	
8	2	16	83.3	1756	-	8.835847	
9	2	16	92.8	1691	-	9.989426	
10	1	16	94.7	-	-	11.281457	

Bin5 Statistics 15

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	2	7	76.3	1543	-	0.254835	1
1	2	7	83.3	1194	-	1.740904	
2	2	7	71.7	1350	-	2.394515	
3	1	7	57	-	-	4.108613	
4	2	7	71.5	1745	-	4.371716	
5	3	7	50.8	1731	1350	6.407177	
6	2	7	76.3	1423	-	7.035466	
7	1	7	99	-	-	7.91102	
8	2	7	66.4	1884	-	9.448583	
9	2	7	98.8	1598	-	10.020243	
10	3	7	95.2	1058	1180	11.921004	

Bin5 Statistics 16

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	2	20	98.8	1933	-	0.211771	1
1	3	20	58.8	1101	1125	1.312254	
2	2	20	79.3	1205	-	1.606739	
3	2	20	93	1206	-	2.841262	
4	2	20	73	1136	-	3.617572	
5	1	20	78.6	-	-	3.922781	
6	3	20	86.4	1776	1217	4.56583	
7	3	20	54	1891	1593	5.86671	
8	2	20	71	1326	-	6.633876	
9	2	20	74.3	1976	-	6.781127	
10	2	20	55.4	1059	-	7.54928	
11	3	20	53.1	1903	1085	8.857469	
12	2	20	97.5	1760	-	9.242977	
13	2	20	69.4	1497	-	10.250058	
14	1	20	59.1	-	-	11.042681	
15	2	20	74.3	1518	-	11.794609	

Bin5 Statistics 17

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	58	1195	1051	0.597136	1
1	2	8	67.9	1456	-	1.3532	
2	1	8	77.2	-	-	1.947917	
3	1	8	85.3	-	-	2.607369	
4	3	8	67.2	1386	1359	2.875473	
5	2	8	74.3	1231	-	3.598594	
6	2	8	59.4	1705	-	4.668776	
7	3	8	84	1207	1465	4.956155	
8	1	8	92.9	-	-	5.966358	
9	1	8	66.7	-	-	6.799025	
10	3	8	62.4	1060	1592	7.234056	
11	2	8	53.9	1529	-	8.106229	
12	2	8	74.2	1354	-	8.69024	
13	2	8	95.5	1835	-	9.617876	
14	2	8	67	1247	-	10.517164	
15	2	8	80.8	1624	-	11.269719	
16	3	8	92	1451	1352	11.692028	

Bin5 Statistics 18

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	87.7	1531	-	0.189925	1
1	2	12	78.2	1673	-	0.8103	
2	2	12	65.1	1240	-	1.72778	
3	2	12	60.7	1541	-	2.931046	
4	3	12	58.2	1941	1496	3.081432	
5	2	12	69.3	1980	-	3.754355	
6	2	12	71.7	1405	-	5.141153	
7	2	12	96.8	1061	-	5.688116	
8	2	12	66.6	1781	-	6.435112	
9	3	12	70	1393	1551	6.867866	
10	1	12	67.5		-	8.087636	
11	2	12	90	1142	-	8.698803	
12	2	12	71.7	1138	-	9.675769	
13	3	12	76.9	1924	1447	9.811863	
14	3	12	73.9	1230	1649	10.969869	
15	2	12	51.4	1268	-	11.266958	

Bin5 Statistics 19

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	2	11	94.5	1074	-	0.293287	1
1	1	11	59.8	-	-	0.668256	
2	1	11	78.1	-	-	1.871134	
3	2	11	78.1	1088	-	2.219216	
4	2	11	87.2	1931	-	2.572653	
5	3	11	81.4	1843	1421	3.283141	
6	2	11	71	1138	-	3.841152	
7	3	11	67.4	1408	1141	4.603723	
8	2	11	97.1	1570	-	5.405649	
9	1	11	79.2	-	-	6.215356	
10	2	11	71.4	1554	-	6.415647	
11	1	11	77	-	-	7.312368	
12	2	11	61.3	1115	-	8.07577	
13	3	11	65.9	1831	1509	8.475059	
14	2	11	62.7	1694	-	9.280313	
15	2	11	97.5	1903	-	9.885348	
16	3	11	86.2	1708	1273	10.348987	
17	1	11	94.6	-	-	10.901192	
18	2	11	89.5	1466	-	11.679046	

Bin5 Statistics 20

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	2	10	80.3	1598	-	0.666006	1
1	3	10	67.8	1478	1538	1.307133	
2	2	10	92.1	1393	-	2.739383	
3	3	10	65.7	1666	1672	3.48186	
4	2	10	62.8	1460	-	4.069968	
5	3	10	62.6	1607	1043	5.932141	
6	3	10	78.1	1418	1130	6.839492	
7	3	10	75.2	1150	1138	7.709354	
8	2	10	66.3	1428	-	8.247766	
9	3	10	70.1	1241	1531	9.193326	
10	2	10	84.7	1210	-	10.227138	
11	1	10	62.9	-	-	11.669253	

Bin5 Statistics 21

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	6	89	1139	1751	0.605654	1
1	2	6	78	1917	-	1.090102	
2	2	6	82.9	1652	-	2.123073	
3	2	6	53	1577	-	2.681066	
4	2	6	78.4	1853	-	3.326671	
5	2	6	69.2	1322	-	4.422899	
6	1	6	72.1	-	-	5.084471	
7	3	6	68.6	1215	1639	5.616626	
8	2	6	69.9	1697	-	6.53687	
9	1	6	72.8	-	-	7.217075	
10	3	6	83.4	1970	1720	8.573131	
11	1	6	73.2	-	-	8.800493	
12	1	6	83.7	-	-	9.603682	
13	1	6	65.1	-	-	10.581865	
14	2	6	71.8	1767	-	11.810635	

Bin5 Statistics 22

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	2	9	69.4	1168	-	0.611345	1
1	2	9	59.5	1753	-	1.387233	
2	3	9	86.4	1756	1465	2.246745	
3	2	9	87.2	1373	-	2.605207	
4	1	9	55.9	-	-	3.633226	
5	2	9	50.6	1242	-	4.679925	
6	2	9	65.3	1308	-	5.286114	
7	2	9	60.1	1895	-	5.8538	
8	2	9	54.6	1883	-	6.759095	
9	2	9	96.9	1613	-	7.728604	
10	3	9	65.6	1104	1010	8.002584	
11	2	9	86.2	1694	-	8.998141	
12	2	9	97.9	1467	-	10.20726	
13	2	9	64.2	1747	-	10.785739	
14	2	9	64.7	1909	-	11.32442	

Bin5 Statistics 23

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	2	13	93	1546	-	0.47145	1
1	2	13	55.7	1233	-	0.701026	
2	3	13	90.9	1836	1560	1.457924	
3	3	13	86.7	1405	1174	2.318719	
4	1	13	81.7	-	-	2.542426	
5	2	13	97.1	1072	-	3.404466	
6	2	13	84	1022	-	4.309072	
7	3	13	68.1	1413	1041	5.004415	
8	3	13	76.9	1197	1998	5.518084	
9	3	13	51.9	1504	1673	5.849443	
10	2	13	54.6	1159	-	6.870254	
11	2	13	70.1	1029	-	7.572199	
12	3	13	57.1	1008	1699	7.737262	
13	3	13	96.5	1988	1814	8.731469	
14	3	13	67.3	1564	1530	9.40004	
15	1	13	77	-	-	9.959386	
16	1	13	86.7	-	-	10.574706	
17	3	13	61.2	1418	1112	10.922026	
18	1	13	83.6	-	-	11.726287	

Bin5 Statistics 24

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	2	7	88	1822	-	0.463064	1
1	1	7	53	-	-	2.144233	
2	2	7	56.8	1854	-	4.43298	
3	2	7	89.2	1678	-	4.696391	
4	1	7	52.5	-	-	6.727554	
5	1	7	68.4	-	-	8.368568	
6	1	7	96.9	-	-	10.231106	
7	2	7	61.8	1295	-	11.288017	

Bin5 Statistics 25

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	1	16	94.6	-	-	0.480353	1
1	2	16	88.6	1234	-	1.751109	
2	2	16	56.7	1471	-	3.670527	
3	2	16	80	1926	-	5.17345	
4	1	16	80.1	-	-	7.463144	
5	1	16	51.3	-	-	8.211584	
6	3	16	86.3	1062	1895	9.812058	
7	1	16	61.9	-	-	11.29971	

Bin5 Statistics 26

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	6	99.4	1009	1599	0.047868	1
1	1	6	84	-	-	1.823449	
2	2	6	97	1518	-	2.687079	
3	2	6	77.4	1053	-	3.1819	
4	2	6	55	1786	-	4.479098	
5	2	6	93.5	1336	-	5.335912	
6	2	6	64.6	1604	-	5.669029	
7	2	6	94.5	1877	-	6.483712	
8	3	6	94.6	1616	1722	8.262944	
9	3	6	94.3	1172	1274	9.029902	
10	2	6	81.4	1277	-	9.776937	
11	2	6	53.7	1488	-	10.932692	
12	2	6	50.2	1945	-	11.658955	

Bin5 Statistics 27

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	69.6	1376	1422	0.003711	1
1	2	10	78.9	1978	-	1.088919	
2	2	10	64.3	1638	-	2.077706	
3	3	10	72.1	1466	1160	2.446703	
4	2	10	95.6	1255	-	3.838692	
5	1	10	88.7	-	-	4.625297	
6	2	10	95.2	1779	-	5.522426	
7	2	10	67.1	1208	-	6.194985	
8	2	10	67.6	1777	-	7.189827	
9	2	10	67.1	1391	-	7.777818	
10	2	10	74.3	1882	-	8.772582	
11	2	10	98	1951	-	9.221815	
12	3	10	72.8	1637	1558	9.852861	
13	3	10	64.1	1262	1231	11.009395	
14	3	10	81.9	1694	1046	11.969622	

Bin5 Statistics 28

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	94.8	1530	1777	0.577255	1
1	1	6	60.7	-	-	0.734531	
2	2	6	78.4	1470	-	1.963398	
3	2	6	98.9	1314	-	2.575403	
4	1	6	98.4	-	-	2.986882	
5	2	6	85.6	1427	-	3.993111	
6	3	6	69.9	1592	1432	4.123299	
7	2	6	53	1601	-	4.951329	
8	2	6	60.5	1962	-	5.344008	
9	3	6	52.4	1187	1194	6.026413	
10	2	6	78.4	1830	-	7.122957	
11	2	6	62.2	1220	-	7.943929	
12	1	6	61.9	-	-	8.044316	
13	1	6	57.5	-	-	8.718748	
14	3	6	85.2	1351	1023	9.555325	
15	3	6	89.6	1445	1197	10.603488	
16	1	6	96.1	-	-	11.227592	
17	2	6	90.7	1561	-	11.674246	

Bin5 Statistics 29

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	12	64.6	1055	1418	0.691948	1
1	1	12	72.4	-	-	1.120331	
2	2	12	79.2	1216	-	1.900921	
3	2	12	84.2	1673	-	2.638626	
4	3	12	91.1	1021	1761	3.038217	
5	2	12	99	1651	-	4.072403	
6	1	12	55	-	-	4.897527	
7	1	12	83.2	-	-	5.416118	
8	2	12	96.8	1016	-	5.677318	
9	1	12	60.8	-	-	6.838464	
10	2	12	53.4	1625	-	7.565612	
11	1	12	71.9	-	-	7.887558	
12	1	12	76.9	-	-	9.168436	
13	2	12	85.9	1806	-	9.204727	
14	2	12	52.5	1690	-	10.573762	
15	2	12	60.3	1094	-	10.954397	
16	2	12	77.5	1739	-	11.600511	

Bin5 Statistics 30

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	15	52.8	1660	1675	0.695164	1
1	3	15	75.9	1647	1223	1.144871	
2	2	15	86.4	1335	-	2.466633	
3	1	15	55.7	-	-	3.232123	
4	3	15	82.9	1203	1262	3.753976	
5	2	15	92.2	1092	-	5.15164	
6	3	15	94.1	1794	1707	5.602153	
7	2	15	88.4	1608	-	6.787926	
8	1	15	94.9	-	-	7.976864	
9	1	15	59.7	-	-	8.680504	
10	2	15	62.9	1978	-	10.059775	
11	1	15	84.4	-	-	10.498325	
12	2	15	95.1	1275	-	11.684561	

Table-6 Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)	Hopping Sequence
1	5270	9	1	333	1	5465.0, 5288.0, 5715.0, 5319.0, 5407.0, 5721.0, 5273.0, 5254.0, 5619.0, 5661.0, 5647.0, 5612.0, 5266.0, 5252.0, 5386.0, 5636.0, 5578.0, 5383.0, 5644.0, 5515.0, 5486.0, 5475.0, 5552.0, 5397.0, 5261.0, 5597.0, 5374.0, 5471.0, 5656.0, 5357.0, 5313.0, 5621.0, 5441.0, 5574.0, 5304.0, 5335.0, 5346.0, 5379.0, 5512.0, 5678.0, 5462.0, 5341.0, 5283.0, 5349.0, 5440.0, 5315.0, 5507.0, 5693.0, 5390.0, 5585.0, 5489.0, 5420.0, 5648.0, 5484.0, 5667.0, 5709.0, 5432.0, 5282.0, 5338.0, 5534.0, 5672.0, 5479.0, 5595.0, 5257.0, 5543.0, 5415.0, 5381.0, 5294.0, 5281.0, 5528.0, 5439.0, 5699.0, 5380.0, 5570.0, 5311.0, 5504.0, 5550.0, 5275.0, 5361.0, 5609.0, 5530.0, 5593.0, 5256.0, 5387.0, 5296.0, 5461.0, 5577.0, 5492.0, 5402.0, 5314.0, 5614.0, 5651.0, 5426.0, 5482.0, 5710.0, 5483.0, 5306.0, 5664.0, 5589.0, 5598.0 (number of hits: 12)
2	5270	9	1	333	1	5496.0, 5554.0, 5621.0, 5550.0, 5271.0, 5654.0, 5361.0, 5278.0, 5647.0, 5620.0, 5593.0, 5480.0, 5269.0, 5316.0, 5340.0, 5683.0, 5485.0, 5685.0, 5339.0, 5281.0, 5582.0, 5401.0, 5609.0, 5692.0, 5352.0, 5294.0, 5310.0, 5295.0, 5358.0, 5464.0, 5590.0, 5397.0, 5607.0, 5519.0, 5479.0, 5481.0, 5531.0, 5493.0, 5507.0, 5551.0, 5520.0, 5468.0, 5376.0, 5711.0, 5377.0, 5567.0, 5675.0, 5325.0, 5256.0, 5292.0, 5433.0, 5678.0, 5389.0, 5592.0, 5702.0, 5454.0, 5445.0, 5463.0, 5393.0, 5312.0, 5289.0, 5332.0, 5308.0, 5264.0, 5394.0, 5568.0, 5261.0, 5588.0, 5418.0, 5348.0, 5560.0, 5572.0, 5369.0, 5270.0, 5633.0, 5405.0, 5477.0, 5599.0, 5558.0, 5274.0, 5651.0, 5413.0, 5328.0, 5653.0, 5276.0, 5532.0, 5506.0, 5355.0, 5255.0, 5561.0, 5303.0, 5535.0, 5557.0, 5370.0, 5471.0, 5262.0, 5521.0, 5571.0, 5442.0, 5680.0 (number of hits: 13)
3	5270	9	1	333	1	5311.0, 5386.0, 5682.0, 5556.0, 5597.0, 5526.0, 5252.0, 5549.0, 5303.0, 5546.0, 5482.0, 5528.0, 5415.0, 5393.0, 5382.0, 5308.0, 5254.0, 5529.0, 5694.0, 5472.0, 5660.0, 5538.0, 5367.0, 5516.0, 5662.0, 5480.0, 5381.0, 5372.0, 5473.0, 5581.0, 5457.0, 5614.0, 5699.0, 5717.0, 5268.0, 5356.0, 5598.0, 5540.0, 5550.0, 5347.0, 5638.0, 5478.0, 5376.0, 5568.0, 5719.0, 5604.0, 5439.0, 5624.0, 5319.0, 5359.0, 5723.0, 5255.0, 5669.0, 5340.0, 5459.0, 5301.0, 5519.0, 5498.0, 5277.0, 5370.0, 5479.0, 5279.0, 5600.0, 5410.0, 5701.0,

						5554.0, 5378.0, 5684.0, 5384.0, 5511.0, 5532.0, 5535.0, 5724.0, 5466.0, 5431.0, 5362.0, 5262.0, 5522.0, 5674.0, 5337.0, 5320.0, 5672.0, 5452.0, 5474.0, 5570.0, 5506.0, 5343.0, 5671.0, 5397.0, 5358.0, 5495.0, 5407.0, 5698.0, 5636.0, 5586.0, 5282.0, 5606.0, 5575.0, 5329.0, 5276.0 (number of hits: 9)
4	5270	9	1	333	1	5516.0, 5461.0, 5706.0, 5315.0, 5705.0, 5466.0, 5691.0, 5498.0, 5405.0, 5722.0, 5704.0, 5418.0, 5599.0, 5619.0, 5350.0, 5297.0, 5669.0, 5723.0, 5486.0, 5568.0, 5555.0, 5646.0, 5500.0, 5519.0, 5560.0, 5604.0, 5523.0, 5293.0, 5419.0, 5287.0, 5475.0, 5512.0, 5639.0, 5617.0, 5422.0, 5702.0, 5610.0, 5270.0, 5681.0, 5506.0, 5361.0, 5634.0, 5671.0, 5323.0, 5358.0, 5368.0, 5586.0, 5601.0, 5550.0, 5622.0, 5334.0, 5259.0, 5295.0, 5494.0, 5399.0, 5290.0, 5551.0, 5380.0, 5363.0, 5484.0, 5542.0, 5668.0, 5536.0, 5269.0, 5447.0, 5594.0, 5490.0, 5670.0, 5250.0, 5437.0, 5526.0, 5477.0, 5331.0, 5624.0, 5651.0, 5294.0, 5580.0, 5296.0, 5685.0, 5356.0, 5394.0, 5570.0, 5699.0, 5481.0, 5413.0, 5532.0, 5266.0, 5409.0, 5578.0, 5468.0, 5562.0, 5376.0, 5573.0, 5457.0, 5279.0, 5621.0, 5326.0, 5345.0, 5412.0, 5406.0 (number of hits: 7)
5	5270	9	1	333	1	5385.0, 5456.0, 5583.0, 5686.0, 5715.0, 5653.0, 5659.0, 5679.0, 5645.0, 5327.0, 5535.0, 5621.0, 5516.0, 5458.0, 5622.0, 5632.0, 5519.0, 5362.0, 5542.0, 5397.0, 5625.0, 5571.0, 5323.0, 5530.0, 5513.0, 5658.0, 5289.0, 5371.0, 5562.0, 5518.0, 5646.0, 5326.0, 5601.0, 5507.0, 5395.0, 5555.0, 5428.0, 5693.0, 5677.0, 5590.0, 5398.0, 5592.0, 5687.0, 5631.0, 5409.0, 5405.0, 5711.0, 5667.0, 5473.0, 5379.0, 5420.0, 5491.0, 5407.0, 5703.0, 5534.0, 5369.0, 5707.0, 5374.0, 5607.0, 5641.0, 5349.0, 5493.0, 5381.0, 5393.0, 5267.0, 5438.0, 5260.0, 5628.0, 5540.0, 5599.0, 5511.0, 5412.0, 5585.0, 5570.0, 5461.0, 5640.0, 5509.0, 5561.0, 5359.0, 5368.0, 5352.0, 5317.0, 5287.0, 5294.0, 5475.0, 5305.0, 5457.0, 5350.0, 5288.0, 5276.0, 5610.0, 5417.0, 5722.0, 5597.0, 5589.0, 5552.0, 5644.0, 5360.0, 5386.0, 5716.0 (number of hits: 6)
6	5270	9	1	333	1	5396.0, 5539.0, 5721.0, 5286.0, 5281.0, 5276.0, 5504.0, 5524.0, 5583.0, 5383.0, 5657.0, 5341.0, 5430.0, 5483.0, 5415.0, 5653.0, 5424.0, 5395.0, 5448.0, 5683.0, 5599.0, 5449.0, 5385.0, 5311.0, 5652.0, 5327.0, 5472.0, 5411.0, 5412.0, 5595.0, 5382.0, 5502.0, 5387.0, 5658.0, 5671.0, 5348.0, 5550.0, 5299.0, 5640.0, 5355.0, 5686.0, 5534.0, 5628.0, 5328.0, 5605.0, 5309.0, 5260.0, 5635.0, 5696.0, 5266.0,

						5444.0, 5513.0, 5688.0, 5485.0, 5705.0, 5340.0, 5675.0, 5438.0, 5664.0, 5393.0, 5480.0, 5512.0, 5615.0, 5318.0, 5256.0, 5634.0, 5293.0, 5342.0, 5491.0, 5543.0, 5684.0, 5560.0, 5295.0, 5347.0, 5406.0, 5514.0, 5263.0, 5413.0, 5584.0, 5720.0, 5654.0, 5699.0, 5451.0, 5711.0, 5252.0, 5313.0, 5275.0, 5594.0, 5702.0, 5577.0, 5436.0, 5312.0, 5434.0, 5362.0, 5629.0, 5580.0, 5400.0, 5679.0, 5535.0, 5476.0 (number of hits: 9)
7	5270	9	1	333	1	5717.0, 5390.0, 5438.0, 5680.0, 5389.0, 5627.0, 5529.0, 5525.0, 5434.0, 5487.0, 5343.0, 5491.0, 5573.0, 5265.0, 5698.0, 5357.0, 5379.0, 5547.0, 5480.0, 5253.0, 5319.0, 5705.0, 5312.0, 5455.0, 5344.0, 5553.0, 5576.0, 5585.0, 5702.0, 5361.0, 5322.0, 5528.0, 5589.0, 5385.0, 5490.0, 5433.0, 5622.0, 5654.0, 5461.0, 5424.0, 5394.0, 5458.0, 5517.0, 5657.0, 5719.0, 5313.0, 5521.0, 5505.0, 5678.0, 5256.0, 5564.0, 5641.0, 5382.0, 5626.0, 5469.0, 5545.0, 5584.0, 5406.0, 5442.0, 5288.0, 5566.0, 5258.0, 5669.0, 5681.0, 5583.0, 5463.0, 5617.0, 5630.0, 5502.0, 5254.0, 5597.0, 5639.0, 5688.0, 5533.0, 5711.0, 5330.0, 5283.0, 5495.0, 5612.0, 5477.0, 5472.0, 5633.0, 5624.0, 5408.0, 5328.0, 5534.0, 5289.0, 5673.0, 5685.0, 5518.0, 5367.0, 5443.0, 5464.0, 5577.0, 5507.0, 5638.0, 5554.0, 5375.0, 5420.0, 5686.0 (number of hits: 8)
8	5270	9	1	333	1	5551.0, 5710.0, 5592.0, 5540.0, 5286.0, 5323.0, 5444.0, 5716.0, 5673.0, 5639.0, 5631.0, 5599.0, 5393.0, 5291.0, 5301.0, 5507.0, 5512.0, 5518.0, 5641.0, 5468.0, 5302.0, 5355.0, 5297.0, 5451.0, 5270.0, 5582.0, 5655.0, 5708.0, 5572.0, 5554.0, 5398.0, 5313.0, 5636.0, 5714.0, 5475.0, 5423.0, 5548.0, 5465.0, 5660.0, 5392.0, 5545.0, 5711.0, 5315.0, 5294.0, 5386.0, 5649.0, 5644.0, 5575.0, 5628.0, 5435.0, 5333.0, 5698.0, 5373.0, 5671.0, 5335.0, 5634.0, 5274.0, 5675.0, 5614.0, 5264.0, 5611.0, 5478.0, 5375.0, 5523.0, 5351.0, 5693.0, 5579.0, 5360.0, 5318.0, 5483.0, 5463.0, 5541.0, 5408.0, 5326.0, 5276.0, 5488.0, 5497.0, 5722.0, 5391.0, 5424.0, 5460.0, 5266.0, 5669.0, 5505.0, 5647.0, 5487.0, 5430.0, 5353.0, 5560.0, 5411.0, 5602.0, 5687.0, 5519.0, 5588.0, 5436.0, 5543.0, 5643.0, 5610.0, 5281.0, 5717.0 (number of hits: 7)
9	5270	9	1	333	1	5582.0, 5647.0, 5447.0, 5290.0, 5538.0, 5608.0, 5371.0, 5531.0, 5543.0, 5519.0, 5690.0, 5685.0, 5595.0, 5563.0, 5423.0, 5381.0, 5545.0, 5557.0, 5466.0, 5403.0, 5584.0, 5494.0, 5309.0, 5648.0, 5516.0, 5698.0, 5497.0, 5445.0, 5451.0, 5376.0, 5298.0, 5679.0, 5609.0, 5436.0, 5691.0,

						5714.0, 5326.0, 5667.0, 5293.0, 5592.0, 5296.0, 5520.0, 5581.0, 5454.0, 5258.0, 5272.0, 5711.0, 5289.0, 5575.0, 5396.0, 5664.0, 5461.0, 5663.0, 5463.0, 5406.0, 5622.0, 5568.0, 5586.0, 5535.0, 5470.0, 5618.0, 5405.0, 5256.0, 5341.0, 5580.0, 5559.0, 5614.0, 5508.0, 5549.0, 5606.0, 5655.0, 5393.0, 5252.0, 5671.0, 5409.0, 5504.0, 5413.0, 5394.0, 5708.0, 5363.0, 5635.0, 5694.0, 5644.0, 5356.0, 5361.0, 5389.0, 5579.0, 5672.0, 5651.0, 5597.0, 5362.0, 5277.0, 5273.0, 5480.0, 5539.0, 5637.0, 5719.0, 5554.0, 5718.0, 5552.0 (number of hits: 7)
10	5270	9	1	333	1	5369.0, 5521.0, 5371.0, 5274.0, 5464.0, 5553.0, 5493.0, 5576.0, 5484.0, 5373.0, 5406.0, 5318.0, 5587.0, 5351.0, 5638.0, 5377.0, 5559.0, 5356.0, 5675.0, 5549.0, 5366.0, 5720.0, 5600.0, 5451.0, 5347.0, 5640.0, 5546.0, 5599.0, 5468.0, 5296.0, 5339.0, 5266.0, 5352.0, 5345.0, 5433.0, 5277.0, 5633.0, 5414.0, 5637.0, 5287.0, 5621.0, 5593.0, 5651.0, 5683.0, 5392.0, 5564.0, 5669.0, 5367.0, 5411.0, 5398.0, 5332.0, 5471.0, 5486.0, 5400.0, 5692.0, 5478.0, 5499.0, 5690.0, 5508.0, 5322.0, 5432.0, 5678.0, 5313.0, 5354.0, 5476.0, 5602.0, 5632.0, 5360.0, 5454.0, 5603.0, 5421.0, 5583.0, 5712.0, 5722.0, 5525.0, 5270.0, 5475.0, 5256.0, 5459.0, 5489.0, 5569.0, 5513.0, 5577.0, 5643.0, 5557.0, 5482.0, 5695.0, 5723.0, 5504.0, 5607.0, 5698.0, 5440.0, 5309.0, 5434.0, 5610.0, 5462.0, 5654.0, 5565.0, 5522.0, 5642.0 (number of hits: 6)
11	5270	9	1	333	1	5326.0, 5476.0, 5692.0, 5527.0, 5628.0, 5474.0, 5303.0, 5655.0, 5528.0, 5281.0, 5564.0, 5252.0, 5323.0, 5409.0, 5641.0, 5401.0, 5639.0, 5717.0, 5464.0, 5511.0, 5407.0, 5608.0, 5550.0, 5503.0, 5504.0, 5607.0, 5412.0, 5491.0, 5463.0, 5310.0, 5557.0, 5481.0, 5262.0, 5490.0, 5393.0, 5470.0, 5428.0, 5434.0, 5446.0, 5675.0, 5357.0, 5292.0, 5376.0, 5330.0, 5499.0, 5710.0, 5614.0, 5448.0, 5565.0, 5404.0, 5654.0, 5479.0, 5486.0, 5676.0, 5359.0, 5622.0, 5669.0, 5515.0, 5473.0, 5327.0, 5415.0, 5308.0, 5621.0, 5269.0, 5280.0, 5305.0, 5471.0, 5459.0, 5686.0, 5290.0, 5278.0, 5679.0, 5697.0, 5265.0, 5634.0, 5629.0, 5664.0, 5390.0, 5556.0, 5453.0, 5674.0, 5694.0, 5342.0, 5294.0, 5722.0, 5489.0, 5296.0, 5259.0, 5604.0, 5529.0, 5657.0, 5536.0, 5618.0, 5437.0, 5264.0, 5493.0, 5596.0, 5297.0, 5576.0, 5374.0 (number of hits: 9)
12	5270	9	1	333	1	5639.0, 5631.0, 5712.0, 5281.0, 5490.0, 5515.0, 5544.0, 5693.0, 5532.0, 5372.0, 5713.0, 5320.0, 5645.0, 5398.0, 5573.0, 5301.0, 5298.0, 5443.0, 5487.0, 5449.0,

						5533.0, 5568.0, 5499.0, 5445.0, 5530.0, 5514.0, 5710.0, 5314.0, 5586.0, 5252.0, 5538.0, 5556.0, 5388.0, 5553.0, 5660.0, 5266.0, 5687.0, 5628.0, 5285.0, 5265.0, 5680.0, 5564.0, 5451.0, 5342.0, 5293.0, 5363.0, 5353.0, 5315.0, 5495.0, 5286.0, 5596.0, 5486.0, 5405.0, 5479.0, 5256.0, 5503.0, 5695.0, 5336.0, 5309.0, 5601.0, 5294.0, 5360.0, 5663.0, 5540.0, 5575.0, 5578.0, 5387.0, 5430.0, 5269.0, 5481.0, 5685.0, 5558.0, 5463.0, 5563.0, 5422.0, 5512.0, 5358.0, 5362.0, 5621.0, 5607.0, 5260.0, 5446.0, 5374.0, 5427.0, 5267.0, 5697.0, 5627.0, 5559.0, 5605.0, 5418.0, 5295.0, 5504.0, 5464.0, 5500.0, 5485.0, 5552.0, 5250.0, 5592.0, 5551.0, 5498.0 (number of hits: 11)
13	5270	9	1	333	1	5403.0, 5345.0, 5688.0, 5526.0, 5363.0, 5584.0, 5521.0, 5400.0, 5259.0, 5567.0, 5422.0, 5594.0, 5529.0, 5572.0, 5461.0, 5669.0, 5559.0, 5296.0, 5318.0, 5471.0, 5557.0, 5451.0, 5421.0, 5531.0, 5291.0, 5513.0, 5621.0, 5369.0, 5549.0, 5709.0, 5551.0, 5544.0, 5371.0, 5264.0, 5325.0, 5299.0, 5556.0, 5657.0, 5646.0, 5540.0, 5666.0, 5312.0, 5484.0, 5275.0, 5697.0, 5286.0, 5693.0, 5434.0, 5495.0, 5466.0, 5333.0, 5388.0, 5338.0, 5719.0, 5620.0, 5629.0, 5298.0, 5718.0, 5456.0, 5258.0, 5353.0, 5612.0, 5712.0, 5701.0, 5682.0, 5644.0, 5443.0, 5533.0, 5465.0, 5675.0, 5553.0, 5332.0, 5372.0, 5716.0, 5617.0, 5543.0, 5606.0, 5552.0, 5469.0, 5398.0, 5610.0, 5591.0, 5722.0, 5467.0, 5695.0, 5654.0, 5546.0, 5313.0, 5662.0, 5453.0, 5562.0, 5383.0, 5650.0, 5309.0, 5634.0, 5271.0, 5374.0, 5284.0, 5574.0, 5449.0 (number of hits: 7)
14	5270	9	1	333	1	5520.0, 5540.0, 5543.0, 5353.0, 5655.0, 5651.0, 5521.0, 5377.0, 5257.0, 5572.0, 5708.0, 5319.0, 5629.0, 5552.0, 5630.0, 5264.0, 5344.0, 5631.0, 5710.0, 5413.0, 5458.0, 5364.0, 5704.0, 5394.0, 5574.0, 5375.0, 5456.0, 5496.0, 5529.0, 5355.0, 5647.0, 5703.0, 5341.0, 5628.0, 5503.0, 5536.0, 5258.0, 5530.0, 5429.0, 5688.0, 5599.0, 5723.0, 5535.0, 5387.0, 5558.0, 5499.0, 5393.0, 5293.0, 5376.0, 5380.0, 5592.0, 5694.0, 5619.0, 5255.0, 5706.0, 5432.0, 5665.0, 5457.0, 5411.0, 5690.0, 5398.0, 5644.0, 5601.0, 5653.0, 5441.0, 5632.0, 5722.0, 5288.0, 5448.0, 5582.0, 5321.0, 5685.0, 5682.0, 5285.0, 5689.0, 5352.0, 5283.0, 5606.0, 5345.0, 5382.0, 5452.0, 5600.0, 5659.0, 5278.0, 5423.0, 5276.0, 5623.0, 5578.0, 5391.0, 5482.0, 5320.0, 5657.0, 5273.0, 5544.0, 5541.0, 5498.0, 5584.0, 5614.0, 5678.0, 5307.0 (number of hits: 10)
15	5270	9	1	333	1	5706.0, 5492.0, 5266.0, 5657.0, 5346.0,

						5719.0, 5573.0, 5472.0, 5424.0, 5567.0, 5434.0, 5301.0, 5508.0, 5708.0, 5306.0, 5283.0, 5410.0, 5498.0, 5374.0, 5487.0, 5696.0, 5389.0, 5284.0, 5669.0, 5600.0, 5462.0, 5668.0, 5698.0, 5713.0, 5622.0, 5322.0, 5689.0, 5584.0, 5589.0, 5476.0, 5395.0, 5517.0, 5355.0, 5261.0, 5481.0, 5461.0, 5277.0, 5381.0, 5444.0, 5435.0, 5469.0, 5383.0, 5391.0, 5338.0, 5684.0, 5596.0, 5693.0, 5496.0, 5333.0, 5323.0, 5722.0, 5505.0, 5432.0, 5516.0, 5607.0, 5575.0, 5624.0, 5705.0, 5477.0, 5329.0, 5379.0, 5649.0, 5264.0, 5366.0, 5523.0, 5610.0, 5294.0, 5704.0, 5716.0, 5418.0, 5319.0, 5337.0, 5550.0, 5406.0, 5367.0, 5345.0, 5663.0, 5318.0, 5582.0, 5530.0, 5697.0, 5630.0, 5336.0, 5666.0, 5568.0, 5557.0, 5365.0, 5302.0, 5502.0, 5255.0, 5579.0, 5676.0, 5715.0, 5615.0, 5364.0 (number of hits: 7)
16	5270	9	1	333	1	5669.0, 5336.0, 5357.0, 5720.0, 5582.0, 5556.0, 5486.0, 5393.0, 5529.0, 5641.0, 5320.0, 5545.0, 5459.0, 5553.0, 5684.0, 5700.0, 5705.0, 5328.0, 5561.0, 5291.0, 5411.0, 5500.0, 5710.0, 5719.0, 5282.0, 5289.0, 5450.0, 5605.0, 5626.0, 5489.0, 5549.0, 5683.0, 5449.0, 5286.0, 5446.0, 5389.0, 5711.0, 5589.0, 5285.0, 5699.0, 5657.0, 5533.0, 5468.0, 5636.0, 5484.0, 5321.0, 5490.0, 5541.0, 5708.0, 5255.0, 5314.0, 5306.0, 5557.0, 5315.0, 5386.0, 5349.0, 5638.0, 5343.0, 5371.0, 5259.0, 5481.0, 5332.0, 5649.0, 5304.0, 5398.0, 5342.0, 5505.0, 5383.0, 5281.0, 5358.0, 5466.0, 5499.0, 5264.0, 5591.0, 5696.0, 5612.0, 5648.0, 5594.0, 5257.0, 5439.0, 5464.0, 5580.0, 5406.0, 5253.0, 5520.0, 5536.0, 5347.0, 5723.0, 5530.0, 5514.0, 5627.0, 5656.0, 5379.0, 5443.0, 5430.0, 5373.0, 5397.0, 5258.0, 5616.0, 5254.0 (number of hits: 12)
17	5270	9	1	333	1	5306.0, 5523.0, 5687.0, 5484.0, 5428.0, 5612.0, 5589.0, 5577.0, 5330.0, 5524.0, 5674.0, 5319.0, 5584.0, 5657.0, 5652.0, 5703.0, 5682.0, 5346.0, 5425.0, 5534.0, 5692.0, 5365.0, 5345.0, 5507.0, 5585.0, 5280.0, 5278.0, 5550.0, 5379.0, 5286.0, 5305.0, 5472.0, 5694.0, 5706.0, 5676.0, 5476.0, 5260.0, 5400.0, 5533.0, 5357.0, 5519.0, 5255.0, 5594.0, 5331.0, 5475.0, 5515.0, 5435.0, 5561.0, 5419.0, 5649.0, 5293.0, 5633.0, 5701.0, 5352.0, 5543.0, 5277.0, 5321.0, 5338.0, 5699.0, 5275.0, 5597.0, 5474.0, 5636.0, 5586.0, 5381.0, 5412.0, 5388.0, 5548.0, 5265.0, 5571.0, 5654.0, 5329.0, 5415.0, 5272.0, 5626.0, 5413.0, 5487.0, 5397.0, 5396.0, 5364.0, 5499.0, 5258.0, 5259.0, 5325.0, 5423.0, 5426.0, 5708.0, 5253.0, 5262.0, 5271.0, 5350.0, 5256.0, 5531.0, 5575.0, 5279.0,

						5267.0, 5567.0, 5546.0, 5320.0, 5610.0 (number of hits: 17)
18	5270	9	1	333	1	5690.0, 5387.0, 5482.0, 5365.0, 5582.0, 5369.0, 5261.0, 5287.0, 5413.0, 5576.0, 5291.0, 5313.0, 5357.0, 5412.0, 5710.0, 5610.0, 5463.0, 5563.0, 5429.0, 5648.0, 5592.0, 5655.0, 5310.0, 5565.0, 5505.0, 5608.0, 5580.0, 5487.0, 5436.0, 5351.0, 5316.0, 5623.0, 5706.0, 5410.0, 5620.0, 5426.0, 5364.0, 5697.0, 5279.0, 5263.0, 5555.0, 5318.0, 5469.0, 5252.0, 5295.0, 5425.0, 5268.0, 5330.0, 5448.0, 5554.0, 5264.0, 5382.0, 5599.0, 5329.0, 5624.0, 5703.0, 5545.0, 5519.0, 5613.0, 5255.0, 5456.0, 5499.0, 5311.0, 5288.0, 5619.0, 5393.0, 5366.0, 5493.0, 5363.0, 5333.0, 5345.0, 5594.0, 5604.0, 5579.0, 5651.0, 5460.0, 5315.0, 5335.0, 5674.0, 5596.0, 5583.0, 5713.0, 5539.0, 5464.0, 5332.0, 5490.0, 5367.0, 5543.0, 5402.0, 5407.0, 5494.0, 5527.0, 5298.0, 5503.0, 5438.0, 5572.0, 5501.0, 5484.0, 5388.0, 5265.0 (number of hits: 10)
19	5270	9	1	333	1	5517.0, 5680.0, 5349.0, 5307.0, 5523.0, 5310.0, 5539.0, 5309.0, 5484.0, 5542.0, 5328.0, 5325.0, 5723.0, 5598.0, 5289.0, 5406.0, 5527.0, 5397.0, 5602.0, 5447.0, 5548.0, 5491.0, 5524.0, 5492.0, 5607.0, 5631.0, 5650.0, 5559.0, 5592.0, 5624.0, 5573.0, 5267.0, 5714.0, 5704.0, 5314.0, 5342.0, 5334.0, 5286.0, 5564.0, 5575.0, 5378.0, 5536.0, 5439.0, 5675.0, 5479.0, 5614.0, 5262.0, 5269.0, 5674.0, 5420.0, 5383.0, 5450.0, 5421.0, 5469.0, 5585.0, 5717.0, 5323.0, 5425.0, 5515.0, 5557.0, 5329.0, 5465.0, 5351.0, 5665.0, 5257.0, 5671.0, 5366.0, 5509.0, 5628.0, 5719.0, 5634.0, 5620.0, 5304.0, 5305.0, 5276.0, 5661.0, 5321.0, 5254.0, 5436.0, 5520.0, 5556.0, 5693.0, 5534.0, 5605.0, 5697.0, 5402.0, 5482.0, 5403.0, 5589.0, 5284.0, 5429.0, 5271.0, 5633.0, 5354.0, 5380.0, 5667.0, 5639.0, 5278.0, 5367.0, 5291.0 (number of hits: 11)
20	5270	9	1	333	1	5323.0, 5402.0, 5486.0, 5693.0, 5517.0, 5253.0, 5649.0, 5489.0, 5619.0, 5558.0, 5277.0, 5588.0, 5526.0, 5503.0, 5320.0, 5720.0, 5666.0, 5257.0, 5375.0, 5258.0, 5641.0, 5721.0, 5396.0, 5417.0, 5439.0, 5493.0, 5698.0, 5719.0, 5408.0, 5656.0, 5367.0, 5495.0, 5279.0, 5331.0, 5356.0, 5689.0, 5298.0, 5423.0, 5485.0, 5597.0, 5444.0, 5504.0, 5603.0, 5382.0, 5407.0, 5441.0, 5621.0, 5592.0, 5533.0, 5583.0, 5483.0, 5627.0, 5267.0, 5437.0, 5469.0, 5293.0, 5283.0, 5591.0, 5702.0, 5391.0, 5647.0, 5288.0, 5685.0, 5319.0, 5339.0, 5606.0, 5385.0, 5645.0, 5635.0, 5664.0, 5353.0, 5530.0, 5567.0, 5432.0, 5529.0, 5680.0, 5555.0, 5642.0, 5281.0, 5361.0,

						5563.0, 5650.0, 5411.0, 5602.0, 5453.0, 5317.0, 5679.0, 5373.0, 5546.0, 5369.0, 5325.0, 5421.0, 5287.0, 5506.0, 5351.0, 5426.0, 5534.0, 5350.0, 5612.0, 5445.0 (number of hits: 10)
21	5270	9	1	333	1	5547.0, 5321.0, 5311.0, 5668.0, 5374.0, 5320.0, 5507.0, 5707.0, 5714.0, 5603.0, 5708.0, 5597.0, 5253.0, 5388.0, 5567.0, 5341.0, 5510.0, 5350.0, 5535.0, 5479.0, 5711.0, 5369.0, 5267.0, 5619.0, 5434.0, 5689.0, 5363.0, 5524.0, 5461.0, 5308.0, 5560.0, 5337.0, 5273.0, 5386.0, 5715.0, 5382.0, 5358.0, 5696.0, 5584.0, 5353.0, 5555.0, 5365.0, 5283.0, 5425.0, 5620.0, 5512.0, 5287.0, 5409.0, 5390.0, 5448.0, 5478.0, 5655.0, 5458.0, 5663.0, 5270.0, 5392.0, 5520.0, 5643.0, 5578.0, 5406.0, 5638.0, 5709.0, 5538.0, 5399.0, 5468.0, 5724.0, 5722.0, 5351.0, 5627.0, 5529.0, 5487.0, 5665.0, 5333.0, 5669.0, 5563.0, 5411.0, 5473.0, 5404.0, 5422.0, 5641.0, 5329.0, 5564.0, 5298.0, 5430.0, 5664.0, 5662.0, 5697.0, 5288.0, 5373.0, 5317.0, 5519.0, 5576.0, 5568.0, 5472.0, 5393.0, 5449.0, 5492.0, 5618.0, 5718.0, 5332.0 (number of hits: 7)
22	5270	9	1	333	1	5360.0, 5686.0, 5548.0, 5599.0, 5305.0, 5558.0, 5660.0, 5421.0, 5652.0, 5485.0, 5426.0, 5344.0, 5717.0, 5406.0, 5654.0, 5664.0, 5381.0, 5340.0, 5383.0, 5293.0, 5425.0, 5315.0, 5432.0, 5563.0, 5594.0, 5708.0, 5576.0, 5510.0, 5467.0, 5592.0, 5289.0, 5545.0, 5557.0, 5697.0, 5430.0, 5312.0, 5314.0, 5397.0, 5588.0, 5400.0, 5481.0, 5446.0, 5564.0, 5359.0, 5508.0, 5464.0, 5523.0, 5691.0, 5347.0, 5574.0, 5543.0, 5369.0, 5515.0, 5611.0, 5517.0, 5392.0, 5535.0, 5380.0, 5701.0, 5589.0, 5542.0, 5613.0, 5690.0, 5292.0, 5390.0, 5597.0, 5595.0, 5454.0, 5631.0, 5439.0, 5267.0, 5416.0, 5435.0, 5348.0, 5395.0, 5474.0, 5357.0, 5681.0, 5484.0, 5272.0, 5290.0, 5544.0, 5721.0, 5479.0, 5583.0, 5608.0, 5466.0, 5408.0, 5504.0, 5298.0, 5250.0, 5473.0, 5333.0, 5399.0, 5313.0, 5642.0, 5386.0, 5462.0, 5413.0, 5662.0 (number of hits: 4)
23	5270	9	1	333	1	5683.0, 5537.0, 5665.0, 5551.0, 5375.0, 5658.0, 5356.0, 5709.0, 5633.0, 5462.0, 5543.0, 5382.0, 5506.0, 5676.0, 5359.0, 5694.0, 5693.0, 5476.0, 5696.0, 5261.0, 5647.0, 5520.0, 5285.0, 5653.0, 5264.0, 5628.0, 5316.0, 5707.0, 5723.0, 5313.0, 5456.0, 5475.0, 5536.0, 5277.0, 5267.0, 5296.0, 5333.0, 5395.0, 5473.0, 5722.0, 5579.0, 5620.0, 5429.0, 5530.0, 5552.0, 5581.0, 5615.0, 5598.0, 5670.0, 5272.0, 5490.0, 5574.0, 5669.0, 5253.0, 5500.0, 5607.0, 5619.0, 5580.0, 5310.0, 5631.0, 5481.0, 5342.0, 5582.0, 5438.0, 5718.0,

						5294.0, 5642.0, 5510.0, 5675.0, 5567.0, 5591.0, 5278.0, 5609.0, 5521.0, 5627.0, 5678.0, 5517.0, 5535.0, 5409.0, 5616.0, 5472.0, 5650.0, 5317.0, 5497.0, 5524.0, 5712.0, 5266.0, 5258.0, 5717.0, 5293.0, 5279.0, 5546.0, 5489.0, 5350.0, 5288.0, 5661.0, 5559.0, 5501.0, 5553.0, 5563.0 (number of hits: 12)
24	5270	9	1	333	1	5271.0, 5377.0, 5423.0, 5440.0, 5473.0, 5321.0, 5667.0, 5397.0, 5675.0, 5572.0, 5277.0, 5563.0, 5539.0, 5287.0, 5652.0, 5359.0, 5620.0, 5546.0, 5612.0, 5408.0, 5716.0, 5590.0, 5553.0, 5599.0, 5334.0, 5348.0, 5482.0, 5641.0, 5266.0, 5651.0, 5291.0, 5657.0, 5330.0, 5305.0, 5639.0, 5441.0, 5373.0, 5365.0, 5637.0, 5645.0, 5327.0, 5615.0, 5340.0, 5669.0, 5379.0, 5699.0, 5631.0, 5273.0, 5250.0, 5688.0, 5532.0, 5339.0, 5493.0, 5300.0, 5453.0, 5449.0, 5292.0, 5396.0, 5545.0, 5560.0, 5345.0, 5522.0, 5596.0, 5703.0, 5294.0, 5626.0, 5508.0, 5559.0, 5621.0, 5415.0, 5527.0, 5265.0, 5506.0, 5568.0, 5513.0, 5464.0, 5430.0, 5347.0, 5401.0, 5360.0, 5617.0, 5654.0, 5443.0, 5424.0, 5677.0, 5719.0, 5422.0, 5501.0, 5705.0, 5434.0, 5511.0, 5442.0, 5364.0, 5335.0, 5451.0, 5369.0, 5544.0, 5589.0, 5577.0, 5689.0 (number of hits: 7)
25	5270	9	1	333	1	5606.0, 5264.0, 5614.0, 5703.0, 5561.0, 5704.0, 5345.0, 5672.0, 5278.0, 5374.0, 5628.0, 5587.0, 5539.0, 5526.0, 5660.0, 5327.0, 5380.0, 5705.0, 5627.0, 5344.0, 5411.0, 5322.0, 5546.0, 5649.0, 5558.0, 5686.0, 5350.0, 5465.0, 5477.0, 5633.0, 5589.0, 5334.0, 5521.0, 5286.0, 5598.0, 5533.0, 5410.0, 5559.0, 5491.0, 5620.0, 5297.0, 5610.0, 5644.0, 5694.0, 5669.0, 5336.0, 5452.0, 5568.0, 5547.0, 5608.0, 5702.0, 5481.0, 5536.0, 5664.0, 5642.0, 5259.0, 5624.0, 5622.0, 5288.0, 5254.0, 5279.0, 5256.0, 5384.0, 5320.0, 5687.0, 5291.0, 5655.0, 5553.0, 5253.0, 5625.0, 5501.0, 5571.0, 5700.0, 5309.0, 5679.0, 5540.0, 5369.0, 5653.0, 5355.0, 5339.0, 5563.0, 5616.0, 5661.0, 5697.0, 5398.0, 5287.0, 5337.0, 5530.0, 5486.0, 5373.0, 5260.0, 5432.0, 5635.0, 5461.0, 5650.0, 5306.0, 5405.0, 5681.0, 5517.0, 5504.0 (number of hits: 11)
26	5270	9	1	333	1	5507.0, 5450.0, 5541.0, 5662.0, 5378.0, 5511.0, 5580.0, 5272.0, 5618.0, 5452.0, 5512.0, 5414.0, 5602.0, 5717.0, 5692.0, 5691.0, 5555.0, 5303.0, 5381.0, 5489.0, 5332.0, 5551.0, 5297.0, 5456.0, 5394.0, 5505.0, 5363.0, 5706.0, 5492.0, 5634.0, 5325.0, 5547.0, 5312.0, 5454.0, 5629.0, 5376.0, 5702.0, 5410.0, 5723.0, 5548.0, 5658.0, 5579.0, 5519.0, 5356.0, 5439.0, 5338.0, 5299.0, 5460.0, 5261.0, 5712.0,

						5703.0, 5650.0, 5605.0, 5300.0, 5416.0, 5643.0, 5292.0, 5638.0, 5488.0, 5590.0, 5309.0, 5467.0, 5550.0, 5392.0, 5601.0, 5433.0, 5263.0, 5603.0, 5598.0, 5411.0, 5523.0, 5526.0, 5288.0, 5269.0, 5568.0, 5581.0, 5509.0, 5504.0, 5289.0, 5657.0, 5696.0, 5674.0, 5669.0, 5490.0, 5485.0, 5390.0, 5404.0, 5318.0, 5651.0, 5644.0, 5268.0, 5486.0, 5317.0, 5531.0, 5494.0, 5474.0, 5386.0, 5475.0, 5423.0, 5637.0 (number of hits: 7)
27	5270	9	1	333	1	5540.0, 5599.0, 5407.0, 5462.0, 5635.0, 5596.0, 5483.0, 5393.0, 5689.0, 5287.0, 5459.0, 5306.0, 5264.0, 5681.0, 5266.0, 5611.0, 5618.0, 5542.0, 5486.0, 5342.0, 5312.0, 5375.0, 5515.0, 5367.0, 5619.0, 5325.0, 5472.0, 5589.0, 5329.0, 5468.0, 5545.0, 5535.0, 5345.0, 5590.0, 5501.0, 5499.0, 5559.0, 5594.0, 5415.0, 5254.0, 5629.0, 5603.0, 5384.0, 5563.0, 5511.0, 5382.0, 5353.0, 5285.0, 5479.0, 5477.0, 5335.0, 5289.0, 5271.0, 5433.0, 5604.0, 5684.0, 5530.0, 5654.0, 5678.0, 5634.0, 5467.0, 5664.0, 5517.0, 5485.0, 5587.0, 5427.0, 5609.0, 5388.0, 5682.0, 5365.0, 5349.0, 5541.0, 5439.0, 5352.0, 5447.0, 5564.0, 5621.0, 5396.0, 5516.0, 5534.0, 5688.0, 5484.0, 5551.0, 5304.0, 5355.0, 5347.0, 5256.0, 5685.0, 5672.0, 5569.0, 5380.0, 5539.0, 5502.0, 5628.0, 5663.0, 5704.0, 5657.0, 5406.0, 5429.0, 5546.0 (number of hits: 8)
28	5270	9	1	333	1	5467.0, 5416.0, 5530.0, 5320.0, 5475.0, 5397.0, 5280.0, 5342.0, 5634.0, 5665.0, 5718.0, 5554.0, 5446.0, 5459.0, 5594.0, 5385.0, 5617.0, 5317.0, 5640.0, 5471.0, 5612.0, 5258.0, 5522.0, 5388.0, 5315.0, 5418.0, 5580.0, 5276.0, 5490.0, 5655.0, 5400.0, 5262.0, 5572.0, 5369.0, 5299.0, 5565.0, 5301.0, 5468.0, 5498.0, 5647.0, 5576.0, 5318.0, 5266.0, 5289.0, 5694.0, 5635.0, 5420.0, 5306.0, 5650.0, 5599.0, 5486.0, 5311.0, 5696.0, 5384.0, 5302.0, 5484.0, 5405.0, 5483.0, 5690.0, 5708.0, 5560.0, 5332.0, 5363.0, 5671.0, 5670.0, 5492.0, 5450.0, 5431.0, 5367.0, 5312.0, 5698.0, 5519.0, 5596.0, 5716.0, 5281.0, 5433.0, 5358.0, 5426.0, 5432.0, 5641.0, 5701.0, 5512.0, 5669.0, 5460.0, 5321.0, 5598.0, 5313.0, 5720.0, 5309.0, 5535.0, 5550.0, 5517.0, 5410.0, 5503.0, 5371.0, 5477.0, 5338.0, 5499.0, 5547.0, 5458.0 (number of hits: 7)
29	5270	9	1	333	1	5516.0, 5542.0, 5561.0, 5288.0, 5474.0, 5640.0, 5439.0, 5582.0, 5255.0, 5319.0, 5362.0, 5406.0, 5702.0, 5284.0, 5563.0, 5496.0, 5639.0, 5367.0, 5526.0, 5259.0, 5700.0, 5402.0, 5558.0, 5669.0, 5388.0, 5267.0, 5499.0, 5268.0, 5274.0, 5312.0, 5424.0, 5612.0, 5387.0, 5342.0, 5420.0,

						5382.0, 5296.0, 5328.0, 5253.0, 5262.0, 5360.0, 5653.0, 5609.0, 5545.0, 5511.0, 5523.0, 5390.0, 5717.0, 5689.0, 5333.0, 5285.0, 5583.0, 5530.0, 5292.0, 5459.0, 5703.0, 5411.0, 5269.0, 5548.0, 5289.0, 5578.0, 5574.0, 5304.0, 5392.0, 5400.0, 5607.0, 5452.0, 5399.0, 5636.0, 5280.0, 5549.0, 5334.0, 5482.0, 5552.0, 5275.0, 5416.0, 5711.0, 5305.0, 5615.0, 5575.0, 5475.0, 5633.0, 5613.0, 5286.0, 5553.0, 5368.0, 5466.0, 5264.0, 5480.0, 5557.0, 5659.0, 5293.0, 5313.0, 5352.0, 5353.0, 5364.0, 5684.0, 5591.0, 5507.0, 5519.0 (number of hits: 16)
30	5270	9	1	333	1	5291.0, 5720.0, 5716.0, 5678.0, 5710.0, 5290.0, 5490.0, 5623.0, 5518.0, 5539.0, 5342.0, 5469.0, 5378.0, 5645.0, 5503.0, 5268.0, 5391.0, 5608.0, 5418.0, 5432.0, 5433.0, 5421.0, 5544.0, 5635.0, 5505.0, 5295.0, 5375.0, 5477.0, 5340.0, 5262.0, 5383.0, 5576.0, 5527.0, 5688.0, 5479.0, 5258.0, 5697.0, 5387.0, 5414.0, 5596.0, 5515.0, 5634.0, 5612.0, 5492.0, 5348.0, 5545.0, 5345.0, 5278.0, 5458.0, 5661.0, 5696.0, 5551.0, 5675.0, 5636.0, 5570.0, 5267.0, 5565.0, 5271.0, 5404.0, 5631.0, 5374.0, 5307.0, 5402.0, 5533.0, 5444.0, 5423.0, 5302.0, 5538.0, 5548.0, 5632.0, 5663.0, 5417.0, 5652.0, 5587.0, 5344.0, 5602.0, 5619.0, 5350.0, 5351.0, 5580.0, 5457.0, 5703.0, 5470.0, 5575.0, 5605.0, 5396.0, 5702.0, 5614.0, 5274.0, 5366.0, 5329.0, 5624.0, 5650.0, 5405.0, 5642.0, 5555.0, 5325.0, 5460.0, 5672.0, 5542.0 (number of hits: 7)

5290 MHz, 80 MHz Bandwidth**Table-1 Radar Type 1A/1B Statistical Performance**

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5290	63	1	838	1
2	5290	86	1	618	1
3	5290	72	1	738	1
4	5290	59	1	898	0
5	5290	67	1	798	1
6	5251	57	1	938	1
7	5251	89	1	598	1
8	5251	68	1	778	1
9	5251	92	1	578	1
10	5251	95	1	558	1
11	5329	81	1	658	1
12	5329	65	1	818	1
13	5329	74	1	718	1
14	5329	78	1	678	1
15	5329	83	1	638	1
16	5290	35	1	1549	1
17	5290	24	1	2259	1
18	5290	24	1	2240	1
19	5290	71	1	750	1
20	5290	38	1	1398	1
21	5251	56	1	951	1
22	5251	23	1	2359	1
23	5251	54	1	987	1
24	5251	88	1	603	1
25	5251	22	1	2423	1
26	5329	52	1	1024	0
27	5329	39	1	1360	0
28	5329	21	1	2586	1
29	5329	41	1	1317	1
30	5329	25	1	2187	1
Detection Percentage: 90 % (>60%)					

Table-2 Radar Type 2 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5290	26	3.8	153	1
2	5290	29	3.7	162	1
3	5290	28	4.2	171	1
4	5290	27	1.1	162	1
5	5290	29	2.9	186	1
6	5290	28	1.1	170	1
7	5290	23	1.3	170	1
8	5290	27	2.3	150	1
9	5290	28	3.9	230	1
10	5290	25	1.5	221	1
11	5251	26	3.9	202	1
12	5251	26	1.4	184	1
13	5251	24	4.6	192	0
14	5251	27	4.8	184	0
15	5251	23	3.7	208	1
16	5251	23	4.4	215	0
17	5251	25	2.4	196	1
18	5251	27	3.7	163	1
19	5251	23	2.4	207	1
20	5251	23	3.3	213	0
21	5329	29	1.7	173	1
22	5329	28	5	151	1
23	5329	29	4.3	171	1
24	5329	26	3.2	221	1
25	5329	25	2.4	198	1
26	5329	29	4	160	1
27	5329	24	3.7	165	1
28	5329	24	1	230	1
29	5329	28	3.5	194	1
30	5329	25	3.4	219	1
Detection Percentage: 86.7 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5290	16	6.8	276	1
2	5290	18	7.6	215	1
3	5290	16	7.1	321	1
4	5290	18	7.4	452	1
5	5290	16	9	295	1
6	5290	17	7.2	231	1
7	5290	16	6.4	222	1
8	5290	17	6.3	334	1
9	5290	18	7.1	430	1
10	5290	17	10	262	1
11	5251	17	9.9	426	1
12	5251	18	7.8	321	1
13	5251	16	9.7	391	0
14	5251	17	8.7	297	0
15	5251	16	9.7	311	1
16	5251	18	6.4	449	0
17	5251	17	7.4	434	1
18	5251	17	9.3	485	1
19	5251	17	7.8	341	0
20	5251	17	10	275	1
21	5329	16	9.6	367	1
22	5329	18	6.4	475	1
23	5329	17	8.7	425	1
24	5329	18	8.1	461	1
25	5329	16	8.6	243	1
26	5329	18	6.5	375	1
27	5329	16	10	419	1
28	5329	18	8	472	1
29	5329	17	8.7	306	1
30	5329	16	6.3	274	1
Detection Percentage: 86.7 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5290	13	14.9	457	1
2	5290	13	15.2	350	1
3	5290	12	15.8	368	1
4	5290	15	12.8	489	1
5	5290	15	17	297	1
6	5290	15	16.4	280	1
7	5290	12	11.2	352	1
8	5290	13	15.3	395	1
9	5290	12	13	254	1
10	5290	12	15.1	313	1
11	5251	12	15.2	460	1
12	5251	13	17.5	336	1
13	5251	12	15.6	470	1
14	5251	16	16.2	384	1
15	5251	16	18.7	340	1
16	5251	12	15.5	249	1
17	5251	13	16.7	452	1
18	5251	13	12.6	375	1
19	5251	13	14.4	310	0
20	5251	12	14.8	392	1
21	5329	13	13.9	300	1
22	5329	12	17.6	201	1
23	5329	15	17.4	352	0
24	5329	15	15.4	361	1
25	5329	16	11.6	283	0
26	5329	13	16.9	362	1
27	5329	12	16	269	0
28	5329	13	19.9	373	1
29	5329	16	15.6	260	0
30	5329	16	19.3	307	1
Detection Percentage: 83.3% (>60%)					

Table-5 Radar Type 5 Statistical Performance

Trial #	Fc (MHz)	Detection (1:yes; 0:no)
1	5290	1
2	5290	1
3	5290	1
4	5290	1
5	5290	1
6	5290	1
7	5290	1
8	5290	1
9	5290	1
10	5290	1
11	5258	1
12	5254.4	1
13	5258.8	0
14	5258.4	0
15	5254.8	1
16	5260	1
17	5255.2	1
18	5256.8	1
19	5256.4	1
20	5256	1
21	5322.4	1
22	5321.6	1
23	5322.8	1
24	5323.2	1
25	5324.8	1
26	5322.8	1
27	5320	1
28	5320.4	1
29	5324.4	1
30	5320.4	1
Detection Percentage: 93.33 % (>80%)		

Bin5 Statistics 1

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	8	97.4	1764	1513	0.346544	1
1	2	8	87.7	1654	-	1.071639	
2	2	8	78.8	1494	-	2.142021	
3	2	8	82.1	1122	-	2.922053	
4	2	8	97.4	1618	-	3.342825	
5	3	8	53.7	1897	1286	4.395305	
6	2	8	92.1	1016	-	4.633385	
7	1	8	92.2	-	-	5.33225	
8	3	8	94	1340	1853	6.607789	
9	3	8	97.4	1964	1155	6.939661	
10	2	8	91.4	1326	-	8.003058	
11	2	8	64.3	1578	-	8.976277	
12	1	8	69	-	-	9.268805	
13	1	8	65.5	-	-	9.848196	
14	2	8	74.2	1299	-	10.515451	
15	1	8	83.4	-	-	11.974452	

Bin5 Statistics 2

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	6	67.5	1977	1664	0.658483	1
1	2	6	72.7	1924	-	1.780024	
2	1	6	52.7	-	-	2.42792	
3	2	6	61.8	1297	-	4.071257	
4	1	6	71.3	-	-	4.975817	
5	2	6	65.1	1494	-	6.394104	
6	3	6	73.8	1956	1847	8.329749	
7	2	6	68.9	1992	-	9.257738	
8	1	6	96.3	-	-	10.246012	
9	2	6	87.5	1215	-	11.252683	

Bin5 Statistics 3

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	2	15	61.6	1817	-	0.871634	1
1	2	15	91.4	1230	-	2.257779	
2	2	15	99.6	1680	-	3.342805	
3	3	15	98.3	1671	1280	4.50069	
4	1	15	95.1	-	-	6.753716	
5	1	15	95.7	-	-	8.128759	
6	3	15	52.3	1489	1578	9.350788	
7	2	15	95.7	1981	-	11.119873	

Bin5 Statistics 4

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	6	83.6	1836	1824	0.155656	1
1	2	6	63.5	1018	-	1.287126	
2	2	6	61.4	1251	-	1.687302	
3	3	6	62.2	1973	1361	2.414309	
4	3	6	64.9	1303	1479	2.981941	
5	3	6	87	1007	1425	3.946038	
6	2	6	56.8	1310	-	4.37934	
7	2	6	57.8	1502	-	5.105846	
8	1	6	82.9	-	-	6.307337	
9	2	6	81.9	1249	-	6.717394	
10	3	6	71.4	1277	1648	7.496349	
11	1	6	59.1	-	-	8.276479	
12	3	6	61.7	1287	1013	8.737119	
13	3	6	60.7	1770	1133	9.436584	
14	2	6	94	1491	-	10.392382	
15	2	6	83.9	1111	-	10.80684	
16	2	6	53.1	1653	-	11.47917	

Bin5 Statistics 5

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	2	10	80.5	1233	-	0.287547	1
1	1	10	90.5	-	-	1.388994	
2	2	10	92.5	1801	-	2.129685	
3	2	10	86.7	1097	-	2.347943	
4	1	10	93.1	-	-	3.678428	
5	2	10	74.9	1333	-	3.801671	
6	1	10	51.9	-	-	4.976685	
7	2	10	71.1	1473	-	5.676374	
8	1	10	81.8	-	-	6.056906	
9	2	10	68.7	1052	-	7.109164	
10	2	10	89.9	1908	-	7.655308	
11	3	10	88.5	1299	1293	8.721399	
12	2	10	57.4	1524	-	9.729676	
13	2	10	58.4	1678	-	10.139049	
14	2	10	75.3	1401	-	10.769491	
15	2	10	90	1881	-	11.45972	

Bin5 Statistics 6

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	2	14	59.8	1155	-	0.26935	1
1	3	14	70.9	1792	1621	1.77415	
2	1	14	95.2	-	-	1.861325	
3	2	14	55.5	1378	-	2.833146	
4	2	14	84.9	1980	-	4.122982	
5	1	14	59.8	-	-	4.734855	
6	1	14	94.9	-	-	6.095797	
7	1	14	84.6	-	-	6.755296	
8	1	14	69.4	-	-	8.222816	
9	2	14	71.3	1835	-	9.154465	
10	2	14	86.1	1507	-	9.499608	
11	2	14	65.8	1534	-	10.416263	
12	3	14	81.6	1494	1936	11.44352	

Bin5 Statistics 7

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	8	52.6	1319	1700	0.100885	0
1	3	8	53.2	1038	1440	1.296875	
2	2	8	64.1	1080	-	1.84331	
3	2	8	71	1280	-	2.828226	
4	2	8	57.3	1596	-	3.383221	
5	3	8	98.3	1660	1565	4.699738	
6	2	8	85.6	1349	-	5.275689	
7	3	8	68.3	1654	1766	5.726476	
8	3	8	92.8	1750	1631	6.93115	
9	1	8	80.2	-	-	7.453752	
10	2	8	72.8	1769	-	8.742788	
11	2	8	87.4	1364	-	9.556837	
12	2	8	68.1	1050	-	9.845729	
13	1	8	51.1	-	-	10.969611	
14	3	8	73	1545	1736	11.870342	

Bin5 Statistics 8

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	1	15	92.9	-	-	0.349725	1
1	1	15	67.6	-	-	1.257526	
2	2	15	63.5	1672	-	2.17673	
3	1	15	93.1	-	-	3.396381	
4	2	15	86.8	1644	-	4.164988	
5	2	15	54	1612	-	4.513384	
6	1	15	88.9	-	-	5.597625	
7	1	15	52.5	-	-	6.2896	
8	2	15	66.2	1720	-	7.468294	
9	2	15	66.5	1091	-	7.851049	
10	2	15	82.7	1064	-	8.842344	
11	2	15	64.9	1126	-	10.097088	
12	2	15	75.1	1535	-	10.33999	
13	2	15	99.8	1897	-	11.816308	

Bin5 Statistics 9

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	15	92.3	1158	1625	0.230263	1
1	1	15	66.4	-	-	0.704705	
2	2	15	96.5	1825	-	1.354416	
3	2	15	98.9	1985	-	2.329181	
4	3	15	99.7	1953	1684	3.015269	
5	1	15	60	-	-	3.806595	
6	3	15	72.2	1296	1716	4.336182	
7	2	15	65.5	1232	-	4.942056	
8	3	15	62.2	1455	1800	5.869743	
9	3	15	64.9	1099	1243	6.115686	
10	3	15	88.2	1262	1716	6.747077	
11	2	15	66.4	1442	-	7.815354	
12	2	15	69.4	1886	-	8.193577	
13	2	15	87.5	1292	-	8.878673	
14	2	15	91.8	1218	-	9.456131	
15	2	15	54.3	1949	-	10.56504	
16	2	15	73.4	1661	-	10.954141	
17	3	15	64.8	1393	1286	11.393723	

Bin5 Statistics 10

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	2	14	60.9	1255	-	0.760217	1
1	1	14	52	-	-	2.957924	
2	2	14	69.8	1937	-	3.078479	
3	1	14	76.5	-	-	4.540928	
4	1	14	99.1	-	-	6.992628	
5	1	14	84.2	-	-	8.737723	
6	2	14	92.3	1584	-	9.762883	
7	3	14	60.5	1976	1038	10.894206	

Bin5 Statistics 11

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	15	55.6	1448	1880	0.096066	1
1	1	15	70.9	-	-	2.071324	
2	2	15	61.8	1633	-	3.261371	
3	1	15	87.7	-	-	4.233656	
4	2	15	62.6	1900	-	5.095049	
5	2	15	67	1422	-	6.790767	
6	1	15	95.7	-	-	7.888694	
7	1	15	88.3	-	-	9.319797	
8	3	15	66.4	1214	1291	10.172224	
9	1	15	75.1	-	-	11.189235	

Bin5 Statistics 12

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	1	6	52.6	-	-	0.084841	1
1	1	6	96.3	-	-	1.030634	
2	2	6	88	1629	-	1.758671	
3	2	6	58.6	1765	-	2.319885	
4	2	6	89.3	1090	-	3.392219	
5	3	6	74	1178	1622	3.939597	
6	1	6	82.6	-	-	4.913809	
7	2	6	62	1463	-	5.663166	
8	3	6	56.8	1665	1474	6.635221	
9	2	6	79.7	1500	-	7.309221	
10	3	6	94.4	1376	1719	7.840088	
11	3	6	87.2	1473	1873	8.628727	
12	1	6	50.6	-	-	9.274051	
13	2	6	67.3	1447	-	9.824088	
14	1	6	63.3	-	-	10.904691	
15	2	6	67.4	1563	-	11.602145	

Bin5 Statistics 13

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	1	17	72.4	-	-	0.588466	0
1	2	17	52.8	1112	-	1.382982	
2	3	17	65	1915	1285	2.158322	
3	2	17	91	1915	-	3.686519	
4	3	17	63.9	1320	1232	3.748634	
5	1	17	92.3	-	-	4.722831	
6	2	17	96.7	1876	-	5.854312	
7	3	17	97	1443	1895	7.373009	
8	2	17	77.7	1456	-	7.792733	
9	1	17	72.6	-	-	9.223337	
10	3	17	79.2	1716	1168	10.083571	
11	1	17	59.8	-	-	10.842387	
12	1	17	99.8	-	-	11.719118	

Bin5 Statistics 14

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	2	16	52.4	1105	-	0.739457	0
1	2	16	99.9	1869	-	1.495496	
2	1	16	79.4	-	-	2.929753	
3	1	16	66.7	-	-	3.382328	
4	2	16	67.5	1947	-	5.248888	
5	2	16	86.3	1384	-	6.155676	
6	1	16	72.9	-	-	6.608692	
7	1	16	69.8	-	-	7.848581	
8	2	16	83.3	1756	-	8.835847	
9	2	16	92.8	1691	-	9.989426	
10	1	16	94.7	-	-	11.281457	

Bin5 Statistics 15

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	2	7	76.3	1543	-	0.254835	1
1	2	7	83.3	1194	-	1.740904	
2	2	7	71.7	1350	-	2.394515	
3	1	7	57	-	-	4.108613	
4	2	7	71.5	1745	-	4.371716	
5	3	7	50.8	1731	1350	6.407177	
6	2	7	76.3	1423	-	7.035466	
7	1	7	99	-	-	7.91102	
8	2	7	66.4	1884	-	9.448583	
9	2	7	98.8	1598	-	10.020243	
10	3	7	95.2	1058	1180	11.921004	

Bin5 Statistics 16

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	2	20	98.8	1933	-	0.211771	1
1	3	20	58.8	1101	1125	1.312254	
2	2	20	79.3	1205	-	1.606739	
3	2	20	93	1206	-	2.841262	
4	2	20	73	1136	-	3.617572	
5	1	20	78.6	-	-	3.922781	
6	3	20	86.4	1776	1217	4.56583	
7	3	20	54	1891	1593	5.86671	
8	2	20	71	1326	-	6.633876	
9	2	20	74.3	1976	-	6.781127	
10	2	20	55.4	1059	-	7.54928	
11	3	20	53.1	1903	1085	8.857469	
12	2	20	97.5	1760	-	9.242977	
13	2	20	69.4	1497	-	10.250058	
14	1	20	59.1	-	-	11.042681	
15	2	20	74.3	1518	-	11.794609	

Bin5 Statistics 17

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	58	1195	1051	0.597136	1
1	2	8	67.9	1456	-	1.3532	
2	1	8	77.2	-	-	1.947917	
3	1	8	85.3	-	-	2.607369	
4	3	8	67.2	1386	1359	2.875473	
5	2	8	74.3	1231	-	3.598594	
6	2	8	59.4	1705	-	4.668776	
7	3	8	84	1207	1465	4.956155	
8	1	8	92.9	-	-	5.966358	
9	1	8	66.7	-	-	6.799025	
10	3	8	62.4	1060	1592	7.234056	
11	2	8	53.9	1529	-	8.106229	
12	2	8	74.2	1354	-	8.69024	
13	2	8	95.5	1835	-	9.617876	
14	2	8	67	1247	-	10.517164	
15	2	8	80.8	1624	-	11.269719	
16	3	8	92	1451	1352	11.692028	

Bin5 Statistics 18

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	87.7	1531	-	0.189925	1
1	2	12	78.2	1673	-	0.8103	
2	2	12	65.1	1240	-	1.72778	
3	2	12	60.7	1541	-	2.931046	
4	3	12	58.2	1941	1496	3.081432	
5	2	12	69.3	1980	-	3.754355	
6	2	12	71.7	1405	-	5.141153	
7	2	12	96.8	1061	-	5.688116	
8	2	12	66.6	1781	-	6.435112	
9	3	12	70	1393	1551	6.867866	
10	1	12	67.5	-	-	8.087636	
11	2	12	90	1142	-	8.698803	
12	2	12	71.7	1138	-	9.675769	
13	3	12	76.9	1924	1447	9.811863	
14	3	12	73.9	1230	1649	10.969869	
15	2	12	51.4	1268	-	11.266958	

Bin5 Statistics 19

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	2	11	94.5	1074	-	0.293287	1
1	1	11	59.8	-	-	0.668256	
2	1	11	78.1	-	-	1.871134	
3	2	11	78.1	1088	-	2.219216	
4	2	11	87.2	1931	-	2.572653	
5	3	11	81.4	1843	1421	3.283141	
6	2	11	71	1138	-	3.841152	
7	3	11	67.4	1408	1141	4.603723	
8	2	11	97.1	1570	-	5.405649	
9	1	11	79.2	-	-	6.215356	
10	2	11	71.4	1554	-	6.415647	
11	1	11	77	-	-	7.312368	
12	2	11	61.3	1115	-	8.07577	
13	3	11	65.9	1831	1509	8.475059	
14	2	11	62.7	1694	-	9.280313	
15	2	11	97.5	1903	-	9.885348	
16	3	11	86.2	1708	1273	10.348987	
17	1	11	94.6	-	-	10.901192	
18	2	11	89.5	1466	-	11.679046	

Bin5 Statistics 20

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	2	10	80.3	1598	-	0.666006	1
1	3	10	67.8	1478	1538	1.307133	
2	2	10	92.1	1393	-	2.739383	
3	3	10	65.7	1666	1672	3.48186	
4	2	10	62.8	1460	-	4.069968	
5	3	10	62.6	1607	1043	5.932141	
6	3	10	78.1	1418	1130	6.839492	
7	3	10	75.2	1150	1138	7.709354	
8	2	10	66.3	1428	-	8.247766	
9	3	10	70.1	1241	1531	9.193326	
10	2	10	84.7	1210	-	10.227138	
11	1	10	62.9	-	-	11.669253	

Bin5 Statistics 21

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	1	14	69.6	-	-	0.498432	1
1	3	14	91.9	1490	1719	1.133179	
2	2	14	79.1	1974	-	1.555835	
3	2	14	81	1422	-	2.139134	
4	2	14	84.8	1724	-	2.722305	
5	2	14	83.9	1667	-	3.167781	
6	1	14	93.9	-	-	4.077401	
7	2	14	96.5	1887	-	4.905789	
8	1	14	68.1	-	-	5.583414	
9	2	14	62.1	1091	-	5.958434	
10	2	14	69.6	1905	-	6.912666	
11	2	14	85.8	1395	-	7.342184	
12	3	14	65.9	1229	1332	8.083943	
13	2	14	88.8	1466	-	8.627491	
14	1	14	77	-	-	9.449424	
15	1	14	50.6	-	-	9.848667	
16	2	14	74.1	1411	-	10.182026	
17	2	14	86.1	1830	-	10.743498	
18	2	14	93	1457	-	11.886619	

Bin5 Statistics 22

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	2	16	60.4	1488	-	0.308378	1
1	2	16	68.8	1459	-	1.390497	
2	2	16	81.7	1328	-	2.345492	
3	3	16	56.8	1693	1985	3.157074	
4	2	16	55.7	1498	-	3.555716	
5	2	16	68.2	1213	-	4.509104	
6	3	16	63.7	1442	1804	4.937045	
7	3	16	76.7	1394	1892	6.356034	
8	1	16	92.9	-	-	6.770282	
9	1	16	51.7	-	-	7.666726	
10	3	16	95.8	1827	1645	8.583719	
11	1	16	91.5	-	-	9.369557	
12	3	16	75.2	1836	1292	9.617083	
13	2	16	57.1	1754	-	10.86202	
14	2	16	75.9	1778	-	11.40127	

Bin5 Statistics 23

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	2	13	98.1	1272	-	0.595447	1
1	3	13	79.1	1870	1847	1.788103	
2	3	13	94.8	1420	1315	2.596754	
3	2	13	81.4	1994	-	3.225692	
4	2	13	85	1459	-	3.963946	
5	1	13	52.5	-	-	4.839771	
6	2	13	50.2	1688	-	5.651355	
7	2	13	53.5	1384	-	6.975844	
8	1	13	77.7	-	-	7.7897	
9	1	13	81.2	-	-	8.543553	
10	2	13	75.7	1718	-	9.258118	
11	1	13	56.1	-	-	10.182847	
12	2	13	75.4	1401	-	11.573844	

Bin5 Statistics 24

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	2	12	59.3	1247	-	1.174095	1
1	3	12	62.2	1350	1968	2.348645	
2	1	12	64.1	-	-	3.062232	
3	2	12	55.8	1562	-	4.17058	
4	3	12	92	1759	1316	6.30611	
5	2	12	85.7	1805	-	6.959897	
6	3	12	50.6	1934	1783	9.077912	
7	3	12	81.7	1759	1302	9.576525	
8	3	12	70.9	1250	1887	10.769608	

Bin5 Statistics 25

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	2	8	99.3	1265	-	0.561793	1
1	2	8	87.3	1340	-	1.571761	
2	1	8	96.7	-	-	2.471002	
3	2	8	52.7	1853	-	2.643246	
4	2	8	76.1	1715	-	3.70207	
5	3	8	97.3	1895	1008	4.3145	
6	3	8	58.3	1283	1294	5.318667	
7	2	8	84	1867	-	6.700466	
8	2	8	86.3	1056	-	7.168484	
9	2	8	94.2	1168	-	7.805064	
10	2	8	78.9	1497	-	8.778287	
11	2	8	70.9	1249	-	10.198546	
12	1	8	74.2	-	-	10.718701	
13	1	8	70.2	-	-	11.277618	

Bin5 Statistics 26

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	1	13	75.3	-	-	0.253263	1
1	2	13	78.5	1386	-	1.093727	
2	2	13	61.4	1600	-	2.343754	
3	2	13	83.4	1843	-	3.432733	
4	3	13	97.9	1544	1423	4.755939	
5	2	13	96.8	1945	-	5.127078	
6	3	13	54.9	1320	1534	6.954452	
7	1	13	75.4	-	-	7.936269	
8	2	13	58.7	1905	-	8.477369	
9	3	13	72.3	1456	1305	9.59496	
10	3	13	72.8	1615	1628	10.290563	
11	3	13	74.6	1014	1099	11.591177	

Bin5 Statistics 27

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	1	20	71.8	-	-	0.243808	1
1	3	20	87.8	1895	1197	1.073633	
2	2	20	58.4	1442	-	2.357315	
3	2	20	58	1931	-	3.033231	
4	3	20	76.1	1944	1640	3.450958	
5	3	20	87.5	1745	1981	4.505427	
6	2	20	62.3	1096	-	5.673948	
7	2	20	83.1	1440	-	6.29408	
8	2	20	97	1215	-	6.964062	
9	3	20	78.5	1767	1157	8.000907	
10	3	20	55.1	1193	1022	8.619501	
11	2	20	93.1	1714	-	10.101646	
12	2	20	99.2	1582	-	10.535688	
13	2	20	71.6	1894	-	11.286142	

Bin5 Statistics 28

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	2	19	58.4	1612	-	0.227762	1
1	3	19	91.3	1470	1772	1.119294	
2	2	19	68.1	1739	-	1.521193	
3	2	19	64.3	1487	-	2.310124	
4	2	19	63.4	1664	-	3.145915	
5	1	19	65.2	-	-	3.409118	
6	1	19	50.6	-	-	4.314799	
7	1	19	85.8	-	-	5.025371	
8	1	19	70.6	-	-	5.624506	
9	3	19	70.4	1988	1356	6.635868	
10	2	19	69.1	1359	-	7.031534	
11	2	19	94.4	1485	-	7.748448	
12	2	19	62.1	1496	-	8.21255	
13	3	19	63.7	1564	1999	8.940417	
14	1	19	74.1	-	-	9.690415	
15	2	19	77.2	1217	-	10.046741	
16	2	19	71	1216	-	11.059071	
17	3	19	64.6	1940	1345	11.424594	

Bin5 Statistics 29

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	1	9	93.7	-	-	0.630874	1
1	3	9	61.2	1722	1526	1.472476	
2	1	9	53.5	-	-	2.471688	
3	3	9	63.9	1942	1143	4.305754	
4	2	9	57.3	1945	-	4.995743	
5	3	9	54.7	1645	1878	6.473036	
6	3	9	63.4	1431	1500	7.517734	
7	2	9	60.9	1522	-	8.053658	
8	2	9	63.7	1537	-	9.759495	
9	3	9	67.3	1131	1161	10.871367	
10	1	9	58.2	-	-	11.575064	

Bin5 Statistics 30

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	2	19	80.4	1400	-	0.74212	1
1	2	19	69.4	1059	-	1.370843	
2	2	19	78.6	1275	-	2.310552	
3	1	19	52.2	-	-	2.710725	
4	2	19	62.4	1864	-	3.550481	
5	2	19	67.2	1014	-	5.076913	
6	2	19	65.3	1183	-	5.658801	
7	3	19	82.6	1349	1689	6.016025	
8	2	19	76.8	1355	-	6.919014	
9	3	19	69.7	1882	1476	8.474483	
10	2	19	66.7	1132	-	8.834711	
11	2	19	67.8	1678	-	9.519234	
12	2	19	73.2	1341	-	10.383236	
13	3	19	66.8	1400	1835	11.250849	

Table-6 Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)	Hopping Sequence
1	5290	9	1	333	1	5463.0, 5722.0, 5596.0, 5499.0, 5647.0, 5717.0, 5430.0, 5523.0, 5657.0, 5606.0, 5655.0, 5625.0, 5346.0, 5310.0, 5419.0, 5260.0, 5335.0, 5424.0, 5415.0, 5459.0, 5521.0, 5257.0, 5509.0, 5273.0, 5565.0, 5405.0, 5658.0, 5668.0, 5649.0, 5302.0, 5440.0, 5578.0, 5623.0, 5640.0, 5667.0, 5704.0, 5447.0, 5634.0, 5435.0, 5264.0, 5487.0, 5422.0, 5309.0, 5330.0, 5562.0, 5353.0, 5444.0, 5607.0, 5265.0, 5294.0, 5666.0, 5267.0, 5548.0, 5268.0, 5495.0, 5478.0, 5687.0, 5543.0, 5285.0, 5643.0, 5533.0, 5274.0, 5397.0, 5590.0, 5558.0, 5541.0, 5635.0, 5664.0, 5252.0, 5638.0, 5540.0, 5474.0, 5316.0, 5544.0, 5442.0, 5462.0, 5468.0, 5364.0, 5570.0, 5527.0, 5648.0, 5501.0, 5291.0, 5412.0, 5328.0, 5325.0, 5481.0, 5475.0, 5388.0, 5500.0, 5645.0, 5650.0, 5642.0, 5683.0, 5679.0, 5375.0, 5670.0, 5517.0, 5598.0, 5344.0 (number of hits: 17)
2	5290	9	1	333	1	5316.0, 5308.0, 5319.0, 5346.0, 5437.0, 5335.0, 5338.0, 5273.0, 5366.0, 5449.0, 5453.0, 5694.0, 5637.0, 5260.0, 5270.0, 5518.0, 5472.0, 5426.0, 5382.0, 5482.0, 5402.0, 5419.0, 5481.0, 5440.0, 5478.0, 5657.0, 5299.0, 5467.0, 5465.0, 5488.0, 5633.0, 5395.0, 5435.0, 5421.0, 5707.0, 5301.0, 5595.0, 5689.0, 5556.0, 5360.0, 5263.0, 5375.0, 5614.0, 5496.0, 5454.0, 5412.0, 5548.0, 5390.0, 5487.0, 5654.0, 5519.0, 5615.0, 5271.0, 5289.0, 5718.0, 5514.0, 5433.0, 5296.0, 5321.0, 5408.0, 5686.0, 5671.0, 5546.0, 5484.0, 5290.0, 5572.0, 5399.0, 5422.0, 5717.0, 5302.0, 5400.0, 5394.0, 5698.0, 5545.0, 5664.0, 5544.0, 5256.0, 5475.0, 5409.0, 5632.0, 5662.0, 5641.0, 5471.0, 5696.0, 5578.0, 5420.0, 5323.0, 5269.0, 5638.0, 5685.0, 5528.0, 5357.0, 5616.0, 5513.0, 5594.0, 5262.0, 5429.0, 5345.0, 5401.0, 5562.0 (number of hits: 19)
3	5290	9	1	333	1	5497.0, 5451.0, 5567.0, 5410.0, 5331.0, 5327.0, 5395.0, 5385.0, 5556.0, 5310.0, 5281.0, 5602.0, 5510.0, 5635.0, 5486.0, 5692.0, 5670.0, 5518.0, 5487.0, 5266.0, 5615.0, 5464.0, 5316.0, 5405.0, 5717.0, 5323.0, 5429.0, 5319.0, 5254.0, 5600.0, 5295.0, 5339.0, 5403.0, 5498.0, 5629.0, 5264.0, 5559.0, 5589.0, 5251.0, 5282.0, 5688.0, 5665.0, 5280.0, 5325.0, 5364.0, 5358.0, 5511.0, 5320.0, 5523.0, 5324.0, 5714.0, 5462.0, 5305.0, 5378.0, 5594.0, 5460.0, 5341.0, 5542.0, 5312.0, 5260.0, 5338.0, 5318.0, 5647.0, 5481.0, 5301.0,

						5577.0, 5283.0, 5303.0, 5685.0, 5463.0, 5531.0, 5444.0, 5650.0, 5499.0, 5580.0, 5453.0, 5340.0, 5421.0, 5259.0, 5651.0, 5370.0, 5484.0, 5343.0, 5694.0, 5624.0, 5414.0, 5317.0, 5659.0, 5570.0, 5423.0, 5672.0, 5657.0, 5537.0, 5598.0, 5609.0, 5330.0, 5443.0, 5452.0, 5642.0, 5706.0 (number of hits: 24)
4	5290	9	1	333	1	5350.0, 5715.0, 5494.0, 5348.0, 5558.0, 5723.0, 5386.0, 5287.0, 5507.0, 5549.0, 5489.0, 5271.0, 5646.0, 5626.0, 5534.0, 5388.0, 5413.0, 5403.0, 5510.0, 5454.0, 5412.0, 5398.0, 5307.0, 5673.0, 5382.0, 5563.0, 5717.0, 5310.0, 5356.0, 5436.0, 5658.0, 5548.0, 5299.0, 5514.0, 5367.0, 5264.0, 5445.0, 5506.0, 5308.0, 5603.0, 5322.0, 5377.0, 5566.0, 5585.0, 5415.0, 5460.0, 5574.0, 5423.0, 5590.0, 5713.0, 5617.0, 5504.0, 5530.0, 5588.0, 5376.0, 5383.0, 5594.0, 5721.0, 5589.0, 5597.0, 5435.0, 5669.0, 5420.0, 5475.0, 5531.0, 5635.0, 5257.0, 5418.0, 5505.0, 5711.0, 5632.0, 5671.0, 5537.0, 5572.0, 5297.0, 5656.0, 5522.0, 5691.0, 5394.0, 5623.0, 5518.0, 5371.0, 5722.0, 5604.0, 5498.0, 5378.0, 5718.0, 5343.0, 5333.0, 5655.0, 5508.0, 5559.0, 5550.0, 5557.0, 5609.0, 5649.0, 5481.0, 5517.0, 5433.0, 5289.0 (number of hits: 11)
5	5290	9	1	333	1	5422.0, 5673.0, 5291.0, 5602.0, 5661.0, 5480.0, 5669.0, 5298.0, 5333.0, 5475.0, 5462.0, 5590.0, 5305.0, 5450.0, 5417.0, 5427.0, 5510.0, 5674.0, 5526.0, 5657.0, 5553.0, 5710.0, 5698.0, 5671.0, 5647.0, 5281.0, 5628.0, 5252.0, 5695.0, 5624.0, 5709.0, 5258.0, 5253.0, 5544.0, 5500.0, 5289.0, 5251.0, 5399.0, 5392.0, 5418.0, 5545.0, 5550.0, 5556.0, 5386.0, 5301.0, 5629.0, 5559.0, 5272.0, 5453.0, 5465.0, 5637.0, 5530.0, 5582.0, 5717.0, 5643.0, 5294.0, 5313.0, 5447.0, 5504.0, 5321.0, 5622.0, 5549.0, 5435.0, 5534.0, 5558.0, 5577.0, 5557.0, 5424.0, 5439.0, 5328.0, 5586.0, 5470.0, 5659.0, 5396.0, 5650.0, 5675.0, 5658.0, 5599.0, 5578.0, 5287.0, 5683.0, 5316.0, 5617.0, 5368.0, 5610.0, 5621.0, 5315.0, 5408.0, 5660.0, 5679.0, 5620.0, 5512.0, 5423.0, 5519.0, 5489.0, 5603.0, 5387.0, 5309.0, 5296.0, 5569.0 (number of hits: 18)
6	5290	9	1	333	1	5374.0, 5443.0, 5502.0, 5672.0, 5633.0, 5436.0, 5339.0, 5398.0, 5564.0, 5696.0, 5648.0, 5675.0, 5385.0, 5305.0, 5509.0, 5356.0, 5411.0, 5289.0, 5553.0, 5425.0, 5302.0, 5705.0, 5412.0, 5313.0, 5524.0, 5644.0, 5551.0, 5619.0, 5309.0, 5350.0, 5396.0, 5394.0, 5663.0, 5366.0, 5307.0, 5346.0, 5572.0, 5486.0, 5371.0, 5390.0, 5403.0, 5306.0, 5516.0, 5637.0, 5706.0, 5576.0, 5423.0, 5333.0, 5491.0, 5685.0,

						5301.0, 5602.0, 5698.0, 5274.0, 5592.0, 5410.0, 5615.0, 5407.0, 5334.0, 5526.0, 5679.0, 5416.0, 5569.0, 5577.0, 5542.0, 5616.0, 5670.0, 5422.0, 5427.0, 5477.0, 5454.0, 5529.0, 5264.0, 5503.0, 5555.0, 5617.0, 5643.0, 5368.0, 5383.0, 5344.0, 5288.0, 5595.0, 5518.0, 5497.0, 5647.0, 5646.0, 5387.0, 5508.0, 5437.0, 5693.0, 5271.0, 5332.0, 5684.0, 5389.0, 5469.0, 5499.0, 5721.0, 5278.0, 5507.0, 5612.0 (number of hits: 13)
7	5290	9	1	333	1	5510.0, 5611.0, 5614.0, 5361.0, 5262.0, 5432.0, 5672.0, 5692.0, 5282.0, 5366.0, 5553.0, 5371.0, 5701.0, 5668.0, 5275.0, 5528.0, 5622.0, 5520.0, 5502.0, 5333.0, 5523.0, 5603.0, 5460.0, 5597.0, 5494.0, 5591.0, 5374.0, 5286.0, 5284.0, 5499.0, 5559.0, 5359.0, 5717.0, 5291.0, 5626.0, 5632.0, 5706.0, 5465.0, 5533.0, 5652.0, 5417.0, 5506.0, 5458.0, 5299.0, 5651.0, 5489.0, 5387.0, 5382.0, 5529.0, 5258.0, 5292.0, 5558.0, 5661.0, 5623.0, 5711.0, 5682.0, 5362.0, 5703.0, 5350.0, 5281.0, 5400.0, 5420.0, 5515.0, 5399.0, 5637.0, 5547.0, 5259.0, 5295.0, 5290.0, 5439.0, 5404.0, 5609.0, 5639.0, 5384.0, 5266.0, 5402.0, 5370.0, 5665.0, 5482.0, 5602.0, 5278.0, 5575.0, 5355.0, 5503.0, 5418.0, 5694.0, 5588.0, 5430.0, 5270.0, 5526.0, 5645.0, 5472.0, 5348.0, 5406.0, 5580.0, 5319.0, 5398.0, 5338.0, 5261.0, 5433.0 (number of hits: 18)
8	5290	9	1	333	1	5287.0, 5679.0, 5342.0, 5642.0, 5357.0, 5493.0, 5506.0, 5689.0, 5624.0, 5446.0, 5556.0, 5459.0, 5281.0, 5323.0, 5673.0, 5686.0, 5640.0, 5268.0, 5586.0, 5651.0, 5253.0, 5386.0, 5695.0, 5438.0, 5622.0, 5313.0, 5478.0, 5454.0, 5618.0, 5593.0, 5461.0, 5394.0, 5374.0, 5610.0, 5492.0, 5455.0, 5498.0, 5692.0, 5420.0, 5530.0, 5398.0, 5466.0, 5708.0, 5269.0, 5449.0, 5627.0, 5371.0, 5612.0, 5406.0, 5274.0, 5352.0, 5380.0, 5469.0, 5315.0, 5505.0, 5362.0, 5650.0, 5707.0, 5393.0, 5486.0, 5712.0, 5672.0, 5463.0, 5467.0, 5295.0, 5364.0, 5690.0, 5551.0, 5526.0, 5475.0, 5270.0, 5649.0, 5630.0, 5442.0, 5437.0, 5302.0, 5264.0, 5487.0, 5479.0, 5677.0, 5436.0, 5573.0, 5254.0, 5320.0, 5351.0, 5375.0, 5609.0, 5266.0, 5304.0, 5326.0, 5646.0, 5425.0, 5309.0, 5257.0, 5693.0, 5503.0, 5453.0, 5491.0, 5432.0, 5276.0 (number of hits: 21)
9	5290	9	1	333	1	5449.0, 5645.0, 5661.0, 5380.0, 5524.0, 5600.0, 5412.0, 5693.0, 5437.0, 5300.0, 5476.0, 5690.0, 5685.0, 5575.0, 5606.0, 5294.0, 5272.0, 5370.0, 5536.0, 5271.0, 5278.0, 5477.0, 5311.0, 5546.0, 5480.0, 5558.0, 5337.0, 5663.0, 5551.0, 5269.0, 5574.0, 5357.0, 5682.0, 5559.0, 5594.0,

						5623.0, 5570.0, 5556.0, 5508.0, 5535.0, 5579.0, 5430.0, 5564.0, 5331.0, 5620.0, 5720.0, 5712.0, 5475.0, 5674.0, 5468.0, 5596.0, 5383.0, 5687.0, 5573.0, 5627.0, 5289.0, 5353.0, 5296.0, 5602.0, 5375.0, 5290.0, 5532.0, 5404.0, 5368.0, 5341.0, 5528.0, 5251.0, 5291.0, 5496.0, 5253.0, 5393.0, 5324.0, 5589.0, 5275.0, 5429.0, 5467.0, 5722.0, 5534.0, 5306.0, 5723.0, 5473.0, 5342.0, 5710.0, 5499.0, 5420.0, 5456.0, 5387.0, 5344.0, 5472.0, 5388.0, 5359.0, 5309.0, 5413.0, 5264.0, 5273.0, 5416.0, 5469.0, 5563.0, 5501.0, 5304.0 (number of hits: 19)
10	5290	9	1	333	1	5412.0, 5536.0, 5569.0, 5686.0, 5266.0, 5291.0, 5618.0, 5589.0, 5709.0, 5643.0, 5628.0, 5539.0, 5610.0, 5293.0, 5445.0, 5558.0, 5451.0, 5503.0, 5721.0, 5277.0, 5576.0, 5330.0, 5336.0, 5620.0, 5471.0, 5544.0, 5482.0, 5690.0, 5461.0, 5260.0, 5435.0, 5438.0, 5635.0, 5498.0, 5418.0, 5312.0, 5564.0, 5458.0, 5374.0, 5410.0, 5325.0, 5565.0, 5570.0, 5382.0, 5455.0, 5278.0, 5514.0, 5716.0, 5360.0, 5488.0, 5560.0, 5549.0, 5401.0, 5433.0, 5633.0, 5502.0, 5308.0, 5423.0, 5343.0, 5366.0, 5516.0, 5699.0, 5380.0, 5431.0, 5393.0, 5675.0, 5476.0, 5299.0, 5706.0, 5513.0, 5386.0, 5304.0, 5577.0, 5294.0, 5642.0, 5613.0, 5599.0, 5311.0, 5604.0, 5710.0, 5338.0, 5432.0, 5511.0, 5389.0, 5323.0, 5328.0, 5668.0, 5460.0, 5629.0, 5708.0, 5319.0, 5282.0, 5529.0, 5261.0, 5399.0, 5379.0, 5495.0, 5324.0, 5283.0, 5507.0 (number of hits: 19)
11	5290	9	1	333	1	5374.0, 5399.0, 5365.0, 5304.0, 5284.0, 5645.0, 5511.0, 5472.0, 5621.0, 5697.0, 5413.0, 5590.0, 5629.0, 5510.0, 5403.0, 5497.0, 5449.0, 5378.0, 5389.0, 5468.0, 5269.0, 5708.0, 5444.0, 5536.0, 5522.0, 5285.0, 5425.0, 5711.0, 5703.0, 5577.0, 5306.0, 5666.0, 5610.0, 5550.0, 5592.0, 5338.0, 5299.0, 5537.0, 5448.0, 5638.0, 5442.0, 5598.0, 5669.0, 5259.0, 5438.0, 5432.0, 5564.0, 5384.0, 5545.0, 5255.0, 5482.0, 5331.0, 5334.0, 5470.0, 5430.0, 5277.0, 5392.0, 5423.0, 5429.0, 5341.0, 5619.0, 5686.0, 5518.0, 5531.0, 5447.0, 5475.0, 5271.0, 5678.0, 5534.0, 5639.0, 5393.0, 5369.0, 5676.0, 5576.0, 5320.0, 5308.0, 5385.0, 5693.0, 5254.0, 5500.0, 5456.0, 5569.0, 5319.0, 5544.0, 5570.0, 5586.0, 5573.0, 5461.0, 5450.0, 5528.0, 5397.0, 5417.0, 5587.0, 5394.0, 5357.0, 5400.0, 5288.0, 5555.0, 5347.0, 5469.0 (number of hits: 15)
12	5290	9	1	333	1	5491.0, 5650.0, 5504.0, 5698.0, 5484.0, 5563.0, 5636.0, 5398.0, 5573.0, 5603.0, 5626.0, 5316.0, 5395.0, 5613.0, 5458.0, 5511.0, 5575.0, 5584.0, 5608.0, 5524.0,

						5268.0, 5355.0, 5529.0, 5612.0, 5688.0, 5451.0, 5450.0, 5522.0, 5696.0, 5354.0, 5429.0, 5599.0, 5325.0, 5680.0, 5406.0, 5297.0, 5652.0, 5595.0, 5404.0, 5651.0, 5308.0, 5389.0, 5582.0, 5262.0, 5519.0, 5403.0, 5379.0, 5640.0, 5283.0, 5259.0, 5489.0, 5693.0, 5510.0, 5467.0, 5711.0, 5670.0, 5605.0, 5637.0, 5400.0, 5540.0, 5295.0, 5282.0, 5617.0, 5394.0, 5272.0, 5269.0, 5654.0, 5390.0, 5521.0, 5487.0, 5618.0, 5387.0, 5384.0, 5299.0, 5513.0, 5443.0, 5494.0, 5460.0, 5436.0, 5571.0, 5357.0, 5712.0, 5289.0, 5530.0, 5350.0, 5512.0, 5562.0, 5602.0, 5581.0, 5421.0, 5341.0, 5304.0, 5383.0, 5547.0, 5381.0, 5714.0, 5588.0, 5551.0, 5468.0, 5442.0 (number of hits: 15)
13	5290	9	1	333	1	5565.0, 5683.0, 5339.0, 5269.0, 5438.0, 5370.0, 5546.0, 5685.0, 5460.0, 5265.0, 5262.0, 5319.0, 5587.0, 5628.0, 5579.0, 5301.0, 5467.0, 5663.0, 5468.0, 5489.0, 5362.0, 5515.0, 5620.0, 5629.0, 5569.0, 5590.0, 5365.0, 5603.0, 5616.0, 5282.0, 5657.0, 5485.0, 5462.0, 5359.0, 5279.0, 5621.0, 5425.0, 5337.0, 5318.0, 5647.0, 5394.0, 5373.0, 5566.0, 5434.0, 5327.0, 5387.0, 5678.0, 5572.0, 5347.0, 5549.0, 5261.0, 5397.0, 5441.0, 5348.0, 5581.0, 5633.0, 5496.0, 5571.0, 5699.0, 5476.0, 5662.0, 5671.0, 5360.0, 5321.0, 5641.0, 5456.0, 5623.0, 5586.0, 5363.0, 5631.0, 5303.0, 5310.0, 5498.0, 5534.0, 5449.0, 5264.0, 5482.0, 5288.0, 5278.0, 5273.0, 5433.0, 5385.0, 5406.0, 5604.0, 5596.0, 5615.0, 5598.0, 5513.0, 5700.0, 5340.0, 5376.0, 5256.0, 5302.0, 5564.0, 5548.0, 5251.0, 5367.0, 5469.0, 5706.0, 5551.0 (number of hits: 19)
14	5290	9	1	333	1	5468.0, 5302.0, 5275.0, 5408.0, 5507.0, 5721.0, 5457.0, 5630.0, 5690.0, 5347.0, 5656.0, 5497.0, 5695.0, 5462.0, 5274.0, 5582.0, 5713.0, 5580.0, 5367.0, 5260.0, 5342.0, 5662.0, 5446.0, 5664.0, 5595.0, 5365.0, 5594.0, 5355.0, 5315.0, 5710.0, 5666.0, 5336.0, 5333.0, 5378.0, 5702.0, 5406.0, 5407.0, 5276.0, 5638.0, 5685.0, 5312.0, 5531.0, 5668.0, 5440.0, 5584.0, 5401.0, 5366.0, 5568.0, 5603.0, 5393.0, 5709.0, 5561.0, 5374.0, 5271.0, 5504.0, 5292.0, 5587.0, 5259.0, 5304.0, 5372.0, 5558.0, 5310.0, 5263.0, 5341.0, 5418.0, 5528.0, 5633.0, 5368.0, 5678.0, 5640.0, 5647.0, 5534.0, 5288.0, 5269.0, 5574.0, 5626.0, 5305.0, 5522.0, 5379.0, 5470.0, 5583.0, 5432.0, 5655.0, 5284.0, 5375.0, 5577.0, 5503.0, 5466.0, 5578.0, 5687.0, 5414.0, 5412.0, 5293.0, 5382.0, 5415.0, 5605.0, 5493.0, 5581.0, 5289.0, 5501.0 (number of hits: 19)
15	5290	9	1	333	1	5447.0, 5417.0, 5656.0, 5257.0, 5706.0,

						5560.0, 5476.0, 5373.0, 5340.0, 5613.0, 5444.0, 5658.0, 5390.0, 5688.0, 5364.0, 5361.0, 5271.0, 5708.0, 5514.0, 5679.0, 5664.0, 5438.0, 5587.0, 5453.0, 5525.0, 5254.0, 5488.0, 5571.0, 5458.0, 5267.0, 5330.0, 5290.0, 5714.0, 5367.0, 5414.0, 5422.0, 5510.0, 5355.0, 5255.0, 5293.0, 5503.0, 5603.0, 5579.0, 5274.0, 5559.0, 5318.0, 5475.0, 5593.0, 5695.0, 5385.0, 5303.0, 5433.0, 5305.0, 5652.0, 5479.0, 5670.0, 5676.0, 5353.0, 5553.0, 5325.0, 5719.0, 5513.0, 5329.0, 5466.0, 5647.0, 5388.0, 5502.0, 5722.0, 5507.0, 5555.0, 5418.0, 5262.0, 5562.0, 5393.0, 5526.0, 5494.0, 5619.0, 5718.0, 5425.0, 5685.0, 5345.0, 5251.0, 5707.0, 5430.0, 5315.0, 5497.0, 5277.0, 5581.0, 5470.0, 5592.0, 5666.0, 5350.0, 5443.0, 5662.0, 5570.0, 5621.0, 5439.0, 5515.0, 5493.0, 5471.0 (number of hits: 15)
16	5290	9	1	333	1	5285.0, 5703.0, 5628.0, 5599.0, 5333.0, 5594.0, 5491.0, 5652.0, 5650.0, 5688.0, 5357.0, 5583.0, 5358.0, 5597.0, 5660.0, 5600.0, 5304.0, 5503.0, 5526.0, 5716.0, 5625.0, 5470.0, 5446.0, 5696.0, 5463.0, 5459.0, 5547.0, 5702.0, 5642.0, 5518.0, 5382.0, 5557.0, 5639.0, 5595.0, 5574.0, 5517.0, 5529.0, 5533.0, 5374.0, 5531.0, 5609.0, 5712.0, 5352.0, 5401.0, 5719.0, 5588.0, 5561.0, 5569.0, 5311.0, 5540.0, 5274.0, 5656.0, 5283.0, 5633.0, 5318.0, 5348.0, 5360.0, 5366.0, 5549.0, 5499.0, 5406.0, 5635.0, 5368.0, 5321.0, 5258.0, 5629.0, 5490.0, 5324.0, 5521.0, 5643.0, 5671.0, 5287.0, 5493.0, 5507.0, 5581.0, 5251.0, 5606.0, 5510.0, 5667.0, 5682.0, 5570.0, 5409.0, 5615.0, 5356.0, 5665.0, 5649.0, 5479.0, 5708.0, 5552.0, 5303.0, 5654.0, 5692.0, 5469.0, 5424.0, 5636.0, 5558.0, 5714.0, 5292.0, 5590.0, 5670.0 (number of hits: 12)
17	5290	9	1	333	1	5498.0, 5589.0, 5499.0, 5638.0, 5353.0, 5350.0, 5344.0, 5720.0, 5718.0, 5518.0, 5623.0, 5447.0, 5468.0, 5493.0, 5459.0, 5260.0, 5630.0, 5325.0, 5267.0, 5523.0, 5465.0, 5571.0, 5701.0, 5643.0, 5658.0, 5303.0, 5469.0, 5411.0, 5329.0, 5360.0, 5670.0, 5502.0, 5556.0, 5550.0, 5369.0, 5387.0, 5256.0, 5677.0, 5262.0, 5402.0, 5542.0, 5632.0, 5484.0, 5595.0, 5651.0, 5682.0, 5437.0, 5370.0, 5646.0, 5475.0, 5496.0, 5467.0, 5552.0, 5583.0, 5561.0, 5586.0, 5409.0, 5702.0, 5500.0, 5580.0, 5448.0, 5268.0, 5591.0, 5636.0, 5596.0, 5656.0, 5543.0, 5345.0, 5537.0, 5612.0, 5308.0, 5384.0, 5390.0, 5436.0, 5572.0, 5635.0, 5315.0, 5473.0, 5389.0, 5689.0, 5503.0, 5264.0, 5681.0, 5540.0, 5705.0, 5672.0, 5621.0, 5445.0, 5501.0, 5579.0, 5356.0, 5562.0, 5582.0, 5359.0, 5461.0,

						5622.0, 5293.0, 5355.0, 5520.0, 5314.0 (number of hits: 12)
18	5290	9	1	333	1	5658.0, 5667.0, 5446.0, 5383.0, 5445.0, 5337.0, 5364.0, 5522.0, 5566.0, 5720.0, 5573.0, 5514.0, 5426.0, 5402.0, 5340.0, 5530.0, 5271.0, 5370.0, 5587.0, 5697.0, 5619.0, 5719.0, 5569.0, 5349.0, 5477.0, 5615.0, 5486.0, 5621.0, 5361.0, 5647.0, 5380.0, 5576.0, 5405.0, 5357.0, 5585.0, 5483.0, 5693.0, 5535.0, 5390.0, 5624.0, 5713.0, 5549.0, 5596.0, 5307.0, 5561.0, 5489.0, 5375.0, 5600.0, 5468.0, 5253.0, 5341.0, 5301.0, 5407.0, 5417.0, 5540.0, 5421.0, 5709.0, 5416.0, 5692.0, 5610.0, 5317.0, 5472.0, 5572.0, 5655.0, 5654.0, 5665.0, 5467.0, 5710.0, 5453.0, 5286.0, 5433.0, 5398.0, 5532.0, 5267.0, 5604.0, 5648.0, 5306.0, 5675.0, 5528.0, 5321.0, 5640.0, 5552.0, 5605.0, 5296.0, 5520.0, 5634.0, 5541.0, 5491.0, 5256.0, 5342.0, 5311.0, 5303.0, 5470.0, 5293.0, 5275.0, 5669.0, 5338.0, 5582.0, 5631.0, 5305.0 (number of hits: 16)
19	5290	9	1	333	1	5266.0, 5642.0, 5310.0, 5411.0, 5329.0, 5288.0, 5361.0, 5493.0, 5607.0, 5585.0, 5319.0, 5632.0, 5344.0, 5643.0, 5481.0, 5483.0, 5465.0, 5623.0, 5520.0, 5404.0, 5440.0, 5403.0, 5293.0, 5445.0, 5428.0, 5563.0, 5302.0, 5303.0, 5588.0, 5618.0, 5458.0, 5624.0, 5571.0, 5488.0, 5548.0, 5620.0, 5468.0, 5550.0, 5447.0, 5720.0, 5621.0, 5374.0, 5377.0, 5591.0, 5435.0, 5279.0, 5328.0, 5633.0, 5395.0, 5480.0, 5281.0, 5586.0, 5314.0, 5280.0, 5532.0, 5334.0, 5539.0, 5684.0, 5391.0, 5290.0, 5692.0, 5471.0, 5436.0, 5363.0, 5254.0, 5356.0, 5375.0, 5723.0, 5441.0, 5422.0, 5526.0, 5575.0, 5336.0, 5269.0, 5419.0, 5410.0, 5399.0, 5652.0, 5354.0, 5582.0, 5320.0, 5450.0, 5398.0, 5394.0, 5695.0, 5291.0, 5388.0, 5690.0, 5651.0, 5596.0, 5478.0, 5646.0, 5313.0, 5708.0, 5315.0, 5530.0, 5312.0, 5438.0, 5479.0, 5714.0 (number of hits: 19)
20	5290	9	1	333	1	5380.0, 5411.0, 5442.0, 5568.0, 5295.0, 5655.0, 5483.0, 5346.0, 5421.0, 5647.0, 5550.0, 5709.0, 5339.0, 5258.0, 5679.0, 5631.0, 5619.0, 5451.0, 5501.0, 5284.0, 5668.0, 5595.0, 5617.0, 5399.0, 5615.0, 5298.0, 5498.0, 5506.0, 5638.0, 5721.0, 5265.0, 5332.0, 5422.0, 5386.0, 5414.0, 5344.0, 5412.0, 5396.0, 5539.0, 5426.0, 5601.0, 5463.0, 5445.0, 5640.0, 5705.0, 5505.0, 5547.0, 5574.0, 5313.0, 5680.0, 5477.0, 5528.0, 5407.0, 5537.0, 5261.0, 5431.0, 5563.0, 5621.0, 5609.0, 5570.0, 5443.0, 5644.0, 5623.0, 5484.0, 5629.0, 5334.0, 5365.0, 5464.0, 5450.0, 5711.0, 5542.0, 5320.0, 5560.0, 5534.0, 5618.0, 5362.0, 5475.0, 5495.0, 5385.0, 5508.0,

						5392.0, 5520.0, 5488.0, 5591.0, 5584.0, 5409.0, 5581.0, 5350.0, 5323.0, 5467.0, 5713.0, 5583.0, 5293.0, 5292.0, 5518.0, 5626.0, 5700.0, 5635.0, 5678.0, 5341.0 (number of hits: 11)
21	5290	9	1	333	1	5547.0, 5632.0, 5670.0, 5263.0, 5346.0, 5720.0, 5459.0, 5271.0, 5622.0, 5311.0, 5377.0, 5286.0, 5310.0, 5697.0, 5662.0, 5298.0, 5474.0, 5325.0, 5573.0, 5386.0, 5369.0, 5258.0, 5691.0, 5417.0, 5668.0, 5531.0, 5375.0, 5542.0, 5533.0, 5561.0, 5663.0, 5649.0, 5685.0, 5492.0, 5453.0, 5424.0, 5374.0, 5597.0, 5723.0, 5416.0, 5347.0, 5695.0, 5621.0, 5527.0, 5704.0, 5446.0, 5303.0, 5295.0, 5312.0, 5364.0, 5589.0, 5708.0, 5383.0, 5647.0, 5579.0, 5676.0, 5555.0, 5643.0, 5539.0, 5593.0, 5359.0, 5523.0, 5642.0, 5350.0, 5419.0, 5498.0, 5442.0, 5482.0, 5413.0, 5345.0, 5608.0, 5270.0, 5653.0, 5384.0, 5682.0, 5365.0, 5497.0, 5484.0, 5722.0, 5660.0, 5678.0, 5522.0, 5633.0, 5692.0, 5425.0, 5635.0, 5411.0, 5420.0, 5551.0, 5603.0, 5307.0, 5250.0, 5449.0, 5489.0, 5672.0, 5454.0, 5294.0, 5352.0, 5465.0, 5351.0 (number of hits: 14)
22	5290	9	1	333	1	5506.0, 5537.0, 5272.0, 5442.0, 5505.0, 5656.0, 5298.0, 5512.0, 5434.0, 5479.0, 5544.0, 5410.0, 5464.0, 5357.0, 5276.0, 5420.0, 5508.0, 5419.0, 5705.0, 5286.0, 5465.0, 5629.0, 5269.0, 5473.0, 5319.0, 5267.0, 5609.0, 5645.0, 5407.0, 5472.0, 5411.0, 5535.0, 5341.0, 5560.0, 5295.0, 5577.0, 5436.0, 5428.0, 5716.0, 5268.0, 5375.0, 5363.0, 5691.0, 5355.0, 5255.0, 5354.0, 5374.0, 5259.0, 5263.0, 5421.0, 5714.0, 5654.0, 5562.0, 5698.0, 5558.0, 5623.0, 5554.0, 5289.0, 5659.0, 5637.0, 5571.0, 5339.0, 5564.0, 5281.0, 5519.0, 5524.0, 5720.0, 5315.0, 5677.0, 5706.0, 5340.0, 5702.0, 5510.0, 5368.0, 5271.0, 5324.0, 5549.0, 5481.0, 5291.0, 5252.0, 5261.0, 5555.0, 5646.0, 5367.0, 5671.0, 5599.0, 5514.0, 5348.0, 5486.0, 5586.0, 5326.0, 5685.0, 5534.0, 5620.0, 5468.0, 5497.0, 5463.0, 5385.0, 5701.0, 5550.0 (number of hits: 21)
23	5290	9	1	333	1	5473.0, 5681.0, 5326.0, 5569.0, 5620.0, 5609.0, 5640.0, 5369.0, 5471.0, 5682.0, 5688.0, 5252.0, 5489.0, 5711.0, 5456.0, 5522.0, 5395.0, 5613.0, 5322.0, 5361.0, 5578.0, 5462.0, 5407.0, 5631.0, 5521.0, 5644.0, 5702.0, 5643.0, 5343.0, 5695.0, 5368.0, 5505.0, 5638.0, 5385.0, 5338.0, 5675.0, 5455.0, 5502.0, 5504.0, 5465.0, 5520.0, 5508.0, 5668.0, 5503.0, 5591.0, 5412.0, 5692.0, 5639.0, 5307.0, 5389.0, 5585.0, 5598.0, 5560.0, 5666.0, 5265.0, 5425.0, 5438.0, 5562.0, 5571.0, 5661.0, 5509.0, 5258.0, 5676.0, 5677.0, 5694.0,

						5281.0, 5306.0, 5346.0, 5413.0, 5277.0, 5605.0, 5463.0, 5297.0, 5544.0, 5279.0, 5645.0, 5615.0, 5429.0, 5596.0, 5581.0, 5659.0, 5594.0, 5304.0, 5526.0, 5607.0, 5716.0, 5255.0, 5621.0, 5714.0, 5276.0, 5671.0, 5698.0, 5417.0, 5434.0, 5576.0, 5474.0, 5537.0, 5459.0, 5568.0, 5622.0 (number of hits: 14)
24	5290	9	1	333	1	5321.0, 5267.0, 5562.0, 5446.0, 5622.0, 5711.0, 5352.0, 5641.0, 5659.0, 5600.0, 5715.0, 5510.0, 5343.0, 5368.0, 5422.0, 5612.0, 5314.0, 5347.0, 5598.0, 5503.0, 5262.0, 5345.0, 5654.0, 5592.0, 5412.0, 5464.0, 5533.0, 5660.0, 5573.0, 5451.0, 5500.0, 5293.0, 5708.0, 5722.0, 5555.0, 5315.0, 5295.0, 5313.0, 5478.0, 5259.0, 5700.0, 5636.0, 5492.0, 5351.0, 5285.0, 5672.0, 5391.0, 5416.0, 5356.0, 5679.0, 5433.0, 5283.0, 5281.0, 5458.0, 5415.0, 5684.0, 5427.0, 5581.0, 5565.0, 5291.0, 5370.0, 5629.0, 5360.0, 5448.0, 5371.0, 5710.0, 5665.0, 5434.0, 5603.0, 5626.0, 5330.0, 5532.0, 5703.0, 5559.0, 5674.0, 5701.0, 5625.0, 5702.0, 5552.0, 5512.0, 5526.0, 5560.0, 5486.0, 5389.0, 5266.0, 5640.0, 5620.0, 5340.0, 5519.0, 5508.0, 5282.0, 5480.0, 5635.0, 5723.0, 5289.0, 5677.0, 5341.0, 5476.0, 5268.0, 5589.0 (number of hits: 17)
25	5290	9	1	333	1	5660.0, 5608.0, 5397.0, 5344.0, 5456.0, 5442.0, 5424.0, 5271.0, 5505.0, 5537.0, 5657.0, 5262.0, 5260.0, 5479.0, 5686.0, 5626.0, 5578.0, 5466.0, 5665.0, 5701.0, 5337.0, 5702.0, 5329.0, 5255.0, 5459.0, 5312.0, 5284.0, 5589.0, 5256.0, 5533.0, 5285.0, 5370.0, 5577.0, 5478.0, 5480.0, 5481.0, 5517.0, 5487.0, 5711.0, 5609.0, 5477.0, 5532.0, 5615.0, 5496.0, 5422.0, 5502.0, 5677.0, 5722.0, 5254.0, 5662.0, 5414.0, 5250.0, 5689.0, 5333.0, 5560.0, 5453.0, 5381.0, 5571.0, 5630.0, 5495.0, 5715.0, 5614.0, 5365.0, 5697.0, 5494.0, 5454.0, 5623.0, 5561.0, 5330.0, 5500.0, 5389.0, 5463.0, 5346.0, 5624.0, 5661.0, 5588.0, 5395.0, 5411.0, 5315.0, 5664.0, 5699.0, 5491.0, 5358.0, 5506.0, 5688.0, 5705.0, 5324.0, 5669.0, 5374.0, 5471.0, 5675.0, 5289.0, 5482.0, 5720.0, 5508.0, 5430.0, 5252.0, 5570.0, 5408.0, 5314.0 (number of hits: 14)
26	5290	9	1	333	1	5299.0, 5669.0, 5341.0, 5630.0, 5441.0, 5453.0, 5617.0, 5646.0, 5406.0, 5314.0, 5517.0, 5710.0, 5405.0, 5338.0, 5577.0, 5275.0, 5462.0, 5375.0, 5664.0, 5493.0, 5412.0, 5609.0, 5424.0, 5547.0, 5604.0, 5260.0, 5447.0, 5532.0, 5697.0, 5564.0, 5506.0, 5302.0, 5369.0, 5376.0, 5681.0, 5272.0, 5701.0, 5419.0, 5305.0, 5328.0, 5334.0, 5523.0, 5440.0, 5259.0, 5657.0, 5680.0, 5354.0, 5682.0, 5459.0, 5382.0,

						5394.0, 5648.0, 5340.0, 5509.0, 5311.0, 5578.0, 5500.0, 5507.0, 5672.0, 5718.0, 5496.0, 5678.0, 5634.0, 5364.0, 5277.0, 5326.0, 5671.0, 5605.0, 5353.0, 5482.0, 5257.0, 5268.0, 5544.0, 5348.0, 5443.0, 5554.0, 5595.0, 5315.0, 5723.0, 5601.0, 5542.0, 5401.0, 5602.0, 5409.0, 5539.0, 5520.0, 5576.0, 5267.0, 5423.0, 5343.0, 5473.0, 5386.0, 5310.0, 5546.0, 5573.0, 5448.0, 5524.0, 5445.0, 5296.0, 5597.0 (number of hits: 17)
27	5290	9	1	333	1	5425.0, 5448.0, 5616.0, 5702.0, 5622.0, 5290.0, 5633.0, 5549.0, 5389.0, 5359.0, 5352.0, 5532.0, 5350.0, 5546.0, 5365.0, 5605.0, 5627.0, 5553.0, 5393.0, 5417.0, 5599.0, 5397.0, 5253.0, 5395.0, 5518.0, 5719.0, 5271.0, 5436.0, 5445.0, 5334.0, 5617.0, 5611.0, 5371.0, 5258.0, 5326.0, 5301.0, 5722.0, 5477.0, 5387.0, 5466.0, 5330.0, 5327.0, 5504.0, 5260.0, 5503.0, 5400.0, 5560.0, 5673.0, 5648.0, 5324.0, 5632.0, 5495.0, 5711.0, 5551.0, 5716.0, 5662.0, 5505.0, 5331.0, 5471.0, 5431.0, 5337.0, 5374.0, 5571.0, 5297.0, 5458.0, 5338.0, 5685.0, 5555.0, 5325.0, 5697.0, 5658.0, 5675.0, 5438.0, 5388.0, 5310.0, 5629.0, 5686.0, 5329.0, 5710.0, 5547.0, 5550.0, 5519.0, 5639.0, 5618.0, 5509.0, 5606.0, 5292.0, 5446.0, 5348.0, 5262.0, 5693.0, 5390.0, 5595.0, 5307.0, 5568.0, 5385.0, 5718.0, 5498.0, 5520.0, 5667.0 (number of hits: 15)
28	5290	9	1	333	1	5462.0, 5558.0, 5308.0, 5629.0, 5667.0, 5405.0, 5271.0, 5314.0, 5366.0, 5277.0, 5510.0, 5292.0, 5607.0, 5476.0, 5520.0, 5502.0, 5594.0, 5479.0, 5495.0, 5544.0, 5598.0, 5275.0, 5711.0, 5447.0, 5418.0, 5536.0, 5650.0, 5423.0, 5488.0, 5659.0, 5276.0, 5527.0, 5266.0, 5693.0, 5554.0, 5658.0, 5267.0, 5471.0, 5335.0, 5642.0, 5318.0, 5505.0, 5456.0, 5647.0, 5518.0, 5663.0, 5473.0, 5562.0, 5376.0, 5478.0, 5573.0, 5290.0, 5620.0, 5716.0, 5337.0, 5696.0, 5341.0, 5718.0, 5508.0, 5347.0, 5710.0, 5268.0, 5361.0, 5548.0, 5312.0, 5307.0, 5364.0, 5686.0, 5345.0, 5441.0, 5687.0, 5475.0, 5321.0, 5281.0, 5614.0, 5324.0, 5389.0, 5322.0, 5611.0, 5453.0, 5315.0, 5396.0, 5381.0, 5482.0, 5383.0, 5416.0, 5484.0, 5519.0, 5599.0, 5631.0, 5358.0, 5512.0, 5661.0, 5713.0, 5682.0, 5633.0, 5610.0, 5551.0, 5481.0, 5625.0 (number of hits: 19)
29	5290	9	1	333	1	5414.0, 5432.0, 5526.0, 5573.0, 5586.0, 5682.0, 5505.0, 5627.0, 5349.0, 5564.0, 5472.0, 5640.0, 5623.0, 5351.0, 5679.0, 5306.0, 5558.0, 5646.0, 5340.0, 5388.0, 5348.0, 5420.0, 5563.0, 5674.0, 5319.0, 5330.0, 5616.0, 5342.0, 5256.0, 5703.0, 5454.0, 5393.0, 5253.0, 5412.0, 5508.0,

						5512.0, 5514.0, 5323.0, 5360.0, 5562.0, 5673.0, 5535.0, 5274.0, 5632.0, 5619.0, 5315.0, 5649.0, 5695.0, 5569.0, 5602.0, 5634.0, 5468.0, 5461.0, 5310.0, 5326.0, 5336.0, 5357.0, 5498.0, 5605.0, 5651.0, 5356.0, 5307.0, 5663.0, 5597.0, 5304.0, 5453.0, 5581.0, 5317.0, 5609.0, 5314.0, 5688.0, 5549.0, 5518.0, 5396.0, 5545.0, 5652.0, 5539.0, 5637.0, 5338.0, 5502.0, 5374.0, 5447.0, 5510.0, 5395.0, 5394.0, 5470.0, 5332.0, 5392.0, 5429.0, 5670.0, 5718.0, 5433.0, 5473.0, 5288.0, 5692.0, 5312.0, 5584.0, 5483.0, 5333.0, 5285.0 (number of hits: 16)
30	5290	9	1	333	1	5434.0, 5526.0, 5427.0, 5573.0, 5700.0, 5453.0, 5578.0, 5701.0, 5631.0, 5444.0, 5273.0, 5261.0, 5607.0, 5565.0, 5675.0, 5457.0, 5665.0, 5358.0, 5640.0, 5587.0, 5670.0, 5287.0, 5666.0, 5504.0, 5379.0, 5589.0, 5641.0, 5592.0, 5548.0, 5669.0, 5442.0, 5541.0, 5255.0, 5296.0, 5424.0, 5438.0, 5303.0, 5382.0, 5328.0, 5417.0, 5451.0, 5497.0, 5341.0, 5502.0, 5305.0, 5426.0, 5368.0, 5599.0, 5356.0, 5518.0, 5403.0, 5309.0, 5351.0, 5325.0, 5391.0, 5257.0, 5552.0, 5285.0, 5371.0, 5598.0, 5487.0, 5512.0, 5401.0, 5710.0, 5499.0, 5549.0, 5704.0, 5315.0, 5638.0, 5428.0, 5266.0, 5688.0, 5327.0, 5519.0, 5494.0, 5347.0, 5340.0, 5324.0, 5712.0, 5447.0, 5282.0, 5348.0, 5481.0, 5372.0, 5543.0, 5331.0, 5648.0, 5694.0, 5467.0, 5709.0, 5435.0, 5271.0, 5501.0, 5362.0, 5263.0, 5464.0, 5557.0, 5310.0, 5365.0, 5404.0 (number of hits: 19)

5500 MHz, 20 MHz Bandwidth**Table-1 Radar Type 1A/1B Statistical Performance**

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5500	89	1	598	1
2	5500	68	1	778	1
3	5500	78	1	678	1
4	5500	99	1	538	1
5	5500	61	1	878	1
6	5491	63	1	838	1
7	5491	102	1	518	0
8	5491	92	1	578	1
9	5491	72	1	738	1
10	5491	59	1	898	1
11	5509	58	1	918	1
12	5509	81	1	658	1
13	5509	76	1	698	1
14	5509	62	1	858	1
15	5509	74	1	718	1
16	5500	57	1	929	1
17	5500	52	1	1020	1
18	5500	21	1	2538	1
19	5500	18	1	2992	1
20	5500	96	1	551	1
21	5491	57	1	935	1
22	5491	18	1	3019	1
23	5491	24	1	2289	1
24	5491	70	1	762	1
25	5491	31	1	1729	1
26	5509	29	1	1856	1
27	5509	81	1	655	1
28	5509	55	1	968	1
29	5509	27	1	2009	1
30	5509	19	1	2792	1
Detection Percentage: 96.67 % (>60%)					

Table-2 Radar Type 2 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5500	23	3.9	196	1
2	5500	25	1.1	206	1
3	5500	26	1.9	219	1
4	5500	24	1.7	175	0
5	5500	26	3.5	180	1
6	5500	23	3.9	182	1
7	5500	29	1.5	178	1
8	5500	29	2.9	223	1
9	5500	23	1.2	173	1
10	5500	24	2.6	179	1
11	5491	25	1	167	1
12	5491	23	2.9	155	1
13	5491	29	2.2	208	1
14	5491	26	4.9	204	1
15	5491	24	2.4	209	0
16	5491	28	1.9	210	1
17	5491	24	4.2	173	1
18	5491	26	4.1	226	1
19	5491	27	4.7	163	1
20	5491	23	2.7	215	1
21	5509	29	1.1	191	1
22	5509	24	1.2	230	1
23	5509	27	3.2	156	1
24	5509	24	2.1	210	0
25	5509	27	4.3	208	1
26	5509	24	2.3	196	1
27	5509	25	5	211	1
28	5509	27	3.3	222	1
29	5509	24	1.6	180	1
30	5509	23	4	153	1
Detection Percentage: 90 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5500	18	8.4	318	1
2	5500	17	8.5	343	1
3	5500	18	9.1	294	0
4	5500	16	9.9	309	1
5	5500	16	8.3	317	1
6	5500	16	8.6	216	1
7	5500	17	8.5	350	1
8	5500	18	9.3	294	1
9	5500	16	6.7	329	1
10	5500	16	9.3	226	1
11	5491	18	9.2	284	1
12	5491	16	6.9	495	1
13	5491	17	8.9	281	1
14	5491	16	7	207	1
15	5491	18	8.4	221	1
16	5491	16	7.1	237	1
17	5491	17	6	472	1
18	5491	18	7.5	473	1
19	5491	16	7.5	412	1
20	5491	18	9.5	317	1
21	5509	16	8.2	289	1
22	5509	17	8.8	357	1
23	5509	18	8.4	293	1
24	5509	16	7.5	207	1
25	5509	16	7.9	267	1
26	5509	18	8.4	217	1
27	5509	16	9.8	294	0
28	5509	18	6.6	289	1
29	5509	18	7	311	1
30	5509	17	6.3	492	1
Detection Percentage: 93.3 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5500	16	18.4	333	1
2	5500	15	18.1	470	1
3	5500	13	12.3	306	1
4	5500	13	16.1	348	1
5	5500	12	13.2	400	1
6	5500	15	14.3	487	1
7	5500	14	18.1	494	1
8	5500	12	19.4	262	1
9	5500	16	11.2	261	1
10	5500	16	17.3	475	1
11	5491	15	16.6	221	1
12	5491	16	18.9	297	1
13	5491	16	11.6	303	1
14	5491	12	12	222	1
15	5491	15	16.6	367	0
16	5491	16	16.2	356	1
17	5491	15	11.2	252	1
18	5491	15	15.4	480	1
19	5491	13	16.2	227	1
20	5491	14	19.5	466	1
21	5509	16	15	313	0
22	5509	14	15.1	449	1
23	5509	13	16.2	479	1
24	5509	12	19.5	411	1
25	5509	12	12.2	440	0
26	5509	14	12.6	449	1
27	5509	13	12.8	265	1
28	5509	16	14.1	209	1
29	5509	13	17.9	203	1
30	5509	12	19.6	472	0
Detection Percentage: 86.7% (>60%)					

Table-5 Radar Type 5 Statistical Performance

Trial #	Fc (MHz)	Detection (1:yes; 0:no)
1	5500	1
2	5500	1
3	5500	1
4	5500	1
5	5500	1
6	5500	1
7	5500	1
8	5500	1
9	5500	1
10	5500	1
11	5494.6	1
12	5498.2	1
13	5498.6	1
14	5497.4	1
15	5493.4	1
16	5493.8	1
17	5497.4	0
18	5497.8	0
19	5497.4	1
20	5493.4	1
21	5506.8	1
22	5504	1
23	5506.4	1
24	5507.2	1
25	5504.8	1
26	5506.4	1
27	5506	1
28	5506.4	1
29	5502.8	1
30	5503.6	1
Detection Percentage: 93.33 % (>80%)		

Bin5 Statistics 1

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	1	6	62.9	-	-	0.072237	1
1	2	6	89.3	1450	-	1.172058	
2	2	6	73.4	1637	-	1.857211	
3	1	6	64.2	-	-	2.566664	
4	1	6	91	-	-	3.253933	
5	3	6	57.7	1561	1080	4.380602	
6	1	6	82	-	-	4.779792	
7	2	6	72	1332	-	5.940697	
8	3	6	74	1127	1789	6.025978	
9	2	6	90.5	1339	-	7.445685	
10	1	6	87.6	-	-	7.542563	
11	2	6	81.1	1842	-	8.810523	
12	2	6	90.1	1774	-	9.51855	
13	1	6	58.2	-	-	9.784582	
14	2	6	94.9	1473	-	10.851534	
15	2	6	71.9	1776	-	11.815406	

Bin5 Statistics 2

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	2	7	81.8	1982	-	0.486966	1
1	1	7	96.9	-	-	1.454342	
2	1	7	92	-	-	2.321993	
3	3	7	88.8	1767	1737	2.746626	
4	3	7	78.4	1435	1935	3.915157	
5	1	7	89.5	-	-	5.089898	
6	2	7	83.4	1760	-	5.942932	
7	2	7	71	1627	-	6.788457	
8	3	7	74.2	1430	1334	7.414447	
9	3	7	53.8	1663	1320	8.494647	
10	3	7	94.7	1347	1887	8.611513	
11	2	7	92.2	1421	-	9.882957	
12	2	7	97.3	1980	-	10.388293	
13	3	7	60.8	1797	1557	11.256113	

Bin5 Statistics 3

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	2	8	54.1	1579	-	0.832127	1
1	2	8	77.9	1054	-	0.918206	
2	2	8	82.6	1608	-	2.437665	
3	2	8	54.5	1080	-	2.697458	
4	2	8	85.3	1008	-	3.478148	
5	2	8	75.5	1391	-	5.042644	
6	2	8	70.9	1982	-	5.68233	
7	2	8	78.6	1852	-	6.594125	
8	2	8	60.8	1004	-	7.378836	
9	3	8	54.2	1791	1204	7.719303	
10	1	8	73.4	-	-	9.031698	
11	3	8	72.5	1060	1335	9.921429	
12	1	8	77.2	-	-	10.878806	
13	1	8	55.1	-	-	11.582505	

Bin5 Statistics 4

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	2	15	94.2	1050	-	0.138057	1
1	2	15	86.4	1635	-	1.551302	
2	3	15	88.9	1429	1911	2.02846	
3	1	15	92.5	-	-	3.255089	
4	2	15	83.1	1490	-	4.534148	
5	2	15	97.4	1494	-	5.476132	
6	2	15	56.2	1267	-	6.52934	
7	3	15	91.9	1546	1457	7.484749	
8	2	15	59.4	1502	-	8.354327	
9	3	15	54.9	1714	1442	9.840563	
10	3	15	65.7	1037	1035	10.825902	
11	2	15	88.3	1739	-	11.397182	

Bin5 Statistics 5

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	2	6	95	1841	-	0.389402	1
1	1	6	57.8	-	-	1.130094	
2	2	6	76.8	1187	-	2.430905	
3	2	6	60.3	1364	-	3.103928	
4	3	6	50.8	1653	1678	4.137263	
5	3	6	68.4	1733	1494	4.700436	
6	2	6	81.3	1496	-	5.754053	
7	3	6	82.4	1561	1004	6.760357	
8	3	6	63.8	1723	1587	7.647821	
9	3	6	77.9	1179	1646	7.902877	
10	1	6	91.3	-	-	8.871134	
11	3	6	90.1	1600	1673	9.677073	
12	1	6	72.8	-	-	10.743641	
13	2	6	89.2	1789	-	11.354427	

Bin5 Statistics 6

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	9	81.3	1563	1554	0.079842	1
1	2	9	99.1	1339	-	0.846003	
2	2	9	74.7	1863	-	2.375196	
3	1	9	88.1	-	-	2.785194	
4	2	9	78.7	1144	-	3.613239	
5	3	9	55.4	1619	1125	4.274454	
6	2	9	56.5	1571	-	5.327654	
7	3	9	81.3	1960	1822	5.992412	
8	3	9	71.4	1339	1978	6.942577	
9	1	9	66.1	-	-	7.223397	
10	1	9	69.1	-	-	8.161899	
11	1	9	54.1	-	-	9.44135	
12	3	9	65	1046	1695	9.888096	
13	2	9	75.8	1310	-	10.584021	
14	3	9	95.3	1121	1360	11.892488	

Bin5 Statistics 7

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	2	13	63.7	1543	-	0.406567	1
1	1	13	58.3	-	-	1.498747	
2	2	13	94.2	1986	-	1.666221	
3	2	13	88.9	1889	-	2.44332	
4	2	13	74.5	1437	-	3.777714	
5	2	13	84.8	1503	-	4.021896	
6	3	13	58.7	1896	1220	5.477793	
7	1	13	65	-	-	5.930252	
8	2	13	77.9	1543	-	7.153351	
9	2	13	64.3	1383	-	7.601035	
10	1	13	60.6	-	-	8.111401	
11	2	13	90.8	1753	-	9.153212	
12	2	13	59.8	1356	-	10.28631	
13	2	13	65.7	1565	-	10.916	
14	2	13	53.4	1985	-	11.573542	

Bin5 Statistics 8

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	1	11	91.6	-	-	0.999806	1
1	3	11	56.4	1841	1467	1.810793	
2	3	11	53.6	1561	1687	2.61054	
3	1	11	68.7	-	-	3.873678	
4	2	11	67.8	1968	-	5.820323	
5	2	11	66.3	1364	-	6.235832	
6	1	11	96.1	-	-	7.926204	
7	1	11	71.8	-	-	8.644109	
8	2	11	80.6	1917	-	10.747692	
9	1	11	59.7	-	-	11.63893	

Bin5 Statistics 9

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	2	8	87.8	1945	-	0.584664	1
1	2	8	76.8	1367	-	1.303722	
2	2	8	92.7	1383	-	2.724355	
3	1	8	65.6	-	-	3.549169	
4	2	8	70.3	1901	-	4.610394	
5	3	8	73.2	1694	1440	5.692598	
6	3	8	53.3	1434	1784	6.7266	
7	3	8	62.2	1602	1895	7.226176	
8	1	8	53	-	-	8.196184	
9	2	8	59	1109	-	9.741241	
10	2	8	83.9	1739	-	10.597818	
11	3	8	52.2	1662	1674	11.16056	

Bin5 Statistics 10

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	14	88.4	1644	1269	0.697971	1
1	1	14	80.9	-	-	1.111849	
2	2	14	89.4	1848	-	1.78149	
3	1	14	89.8	-	-	2.787985	
4	3	14	53.1	1804	1288	3.468914	
5	2	14	53.9	1239	-	4.485073	
6	2	14	61.9	1353	-	5.466916	
7	2	14	73.2	1140	-	6.572971	
8	2	14	55.8	1411	-	7.526082	
9	2	14	54.9	1267	-	8.454406	
10	1	14	79.6	-	-	9.044901	
11	1	14	69.8	-	-	9.688222	
12	3	14	92.4	1052	1859	10.898839	
13	1	14	86.9	-	-	11.96387	

Bin5 Statistics 11

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	2	9	91	1603	-	0.566115	1
1	1	9	58.8	-	-	2.007979	
2	3	9	68.5	1859	1009	3.084603	
3	1	9	75.1	-	-	4.012956	
4	3	9	66.8	1700	1648	5.392355	
5	3	9	65.7	1835	1997	5.528282	
6	2	9	97.4	1848	-	7.03174	
7	2	9	92.2	1386	-	8.211992	
8	2	9	91.1	1940	-	9.044595	
9	3	9	57.3	1618	1709	10.624673	
10	2	9	66.3	1952	-	11.015473	

Bin5 Statistics 12

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	2	18	65.4	1094	-	0.781916	1
1	2	18	52.3	1322	-	1.916901	
2	2	18	72.6	1062	-	2.700059	
3	2	18	63	1731	-	3.5974	
4	2	18	88.3	1479	-	4.3301	
5	2	18	56.1	1373	-	5.380584	
6	2	18	94.2	1369	-	6.750943	
7	2	18	78.2	1831	-	7.642426	
8	2	18	97.6	1272	-	8.564661	
9	3	18	67.4	1109	1648	9.67713	
10	1	18	75.1	-	-	10.269969	
11	2	18	54.2	1019	-	11.188336	

Bin5 Statistics 13

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	2	19	56.9	1900	-	0.524392	1
1	1	19	69.6	-	-	1.089404	
2	2	19	72.4	1416	-	1.342684	
3	2	19	53.4	1311	-	2.309656	
4	2	19	80.7	1310	-	3.062664	
5	3	19	55.7	1906	1985	3.339714	
6	2	19	63.3	1018	-	4.358608	
7	2	19	64.3	1704	-	4.428207	
8	3	19	58.2	1621	1846	5.60759	
9	3	19	97.9	1997	1889	6.282979	
10	1	19	63.4	-	-	6.418466	
11	2	19	99.3	1798	-	7.566395	
12	2	19	55.3	1401	-	7.738457	
13	2	19	70.1	1580	-	8.364442	
14	1	19	61.3	-	-	9.296907	
15	3	19	92.6	1535	1280	9.748195	
16	2	19	88.4	1039	-	10.45298	
17	2	19	53.5	1348	-	11.138442	
18	1	19	91.4	-	-	11.887249	

Bin5 Statistics 14

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	2	16	99.8	1195	-	0.097693	1
1	2	16	55.5	1186	-	0.904482	
2	1	16	94.8	-	-	1.558112	
3	1	16	60.5	-	-	2.05197	
4	1	16	68.5	-	-	2.991848	
5	3	16	71.1	1370	1533	3.893222	
6	2	16	64.8	1818	-	4.45502	
7	3	16	96.3	1824	1674	5.171127	
8	2	16	79.3	1969	-	5.729046	
9	2	16	54.3	1052	-	6.396097	
10	2	16	71.9	1737	-	7.037593	
11	1	16	61.5	-	-	7.359541	
12	2	16	84.4	1320	-	8.591998	
13	2	16	82.2	1530	-	8.890495	
14	2	16	66.4	1503	-	9.373372	
15	3	16	62.7	1575	1301	10.24471	
16	3	16	93	1627	1544	10.805633	
17	3	16	61.6	1764	1623	11.399893	

Bin5 Statistics 15

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	6	85.5	1221	1077	0.771569	1
1	2	6	89.3	1585	-	1.47383	
2	2	6	80.1	1927	-	1.775466	
3	1	6	82.2	-	-	3.150853	
4	3	6	55.9	1380	1518	3.668738	
5	2	6	92.7	1254	-	4.423172	
6	2	6	50.6	1195	-	5.741299	
7	2	6	68	1080	-	6.608238	
8	1	6	96.2	-	-	7.062657	
9	2	6	90.7	1804	-	8.043899	
10	1	6	78.5	-	-	9.086948	
11	3	6	61.9	1813	1364	9.879102	
12	2	6	61.6	1133	-	10.802247	
13	1	6	65.2	-	-	11.21962	

Bin5 Statistics 16

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	2	7	87.5	1115	-	1.078478	1
1	2	7	87.8	1042	-	1.702285	
2	3	7	52.9	1889	1376	3.287451	
3	1	7	70.9	-	-	5.033361	
4	1	7	82.8	-	-	6.377025	
5	2	7	79.3	1927	-	7.664041	
6	1	7	61.8	-	-	9.975163	
7	2	7	86.3	1181	-	10.693413	

Bin5 Statistics 17

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	1	16	60.9	-	-	0.725472	0
1	3	16	61.6	1400	1405	1.265512	
2	3	16	76.7	1327	1431	2.372437	
3	2	16	79.8	1409	-	3.944935	
4	2	16	63.6	1939	-	4.671594	
5	2	16	58.1	1962	-	5.297919	
6	3	16	91.9	1047	1504	6.630591	
7	3	16	76.8	1004	1961	7.835724	
8	3	16	99.3	1949	1962	8.44783	
9	3	16	74.6	1494	1116	9.569889	
10	1	16	87.2	-	-	10.969825	
11	3	16	75.2	1167	1877	11.029718	

Bin5 Statistics 18

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	2	17	86.7	1777	-	0.043689	0
1	3	17	68.7	1724	1455	1.05664	
2	2	17	88.2	1034	-	1.8497	
3	2	17	53.2	1885	-	2.112357	
4	2	17	60.8	1787	-	2.535339	
5	1	17	86.7	-	-	3.283647	
6	2	17	65.9	1302	-	4.246021	
7	1	17	63.1	-	-	4.74998	
8	2	17	52.4	1693	-	5.24656	
9	1	17	54.7	-	-	6.153434	
10	2	17	79.8	1891	-	6.346462	
11	3	17	77.8	1422	1234	7.225096	
12	1	17	54.2	-	-	8.001579	
13	2	17	68.5	1283	-	8.67795	
14	2	17	69.4	1719	-	9.463611	
15	2	17	84.2	1440	-	9.671919	
16	3	17	82.9	1082	1932	10.455959	
17	2	17	77.7	1853	-	10.764589	
18	2	17	60.8	1318	-	11.88496	

Bin5 Statistics 19

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	16	71.3	1659	1269	0.662193	1
1	2	16	65.2	1306	-	0.971826	
2	1	16	74.3	-	-	1.861756	
3	2	16	70.5	1907	-	2.78586	
4	2	16	59.5	1879	-	4.001242	
5	3	16	54.1	1609	1137	4.668643	
6	2	16	64.9	1429	-	5.99272	
7	2	16	58.7	1779	-	7.158042	
8	3	16	90.3	1156	1364	7.736213	
9	1	16	53.2	-	-	8.511919	
10	1	16	67.1	-	-	9.742157	
11	2	16	95.6	1533	-	10.677029	
12	2	16	95.5	1918	-	11.852649	

Bin5 Statistics 20

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	2	6	95.6	1929	-	0.190053	1
1	1	6	66.1	-	-	1.055957	
2	2	6	90.7	1221	-	2.178148	
3	2	6	88.7	1209	-	2.687759	
4	2	6	96.8	1641	-	3.32238	
5	2	6	91.3	1487	-	3.987125	
6	2	6	73	1157	-	5.048172	
7	1	6	59.8	-	-	5.862829	
8	2	6	70.5	1066	-	6.500044	
9	3	6	74.2	1843	1228	7.316937	
10	2	6	81.9	1564	-	8.223637	
11	1	6	90.1	-	-	8.553581	
12	3	6	91.6	1205	1723	9.105517	
13	2	6	99.6	1650	-	9.889385	
14	2	6	80.9	1722	-	10.736416	
15	3	6	96.1	1859	1293	11.513882	

Bin5 Statistics 21

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	2	8	58.2	1631	-	0.614376	1
1	1	8	52.5	-	-	1.402521	
2	3	8	99.9	1646	1117	2.368534	
3	1	8	76	-	-	2.99182	
4	2	8	73.2	1494	-	3.878128	
5	2	8	62.5	1155	-	4.829753	
6	3	8	92.2	1734	1696	5.603018	
7	2	8	98.7	1733	-	6.058496	
8	3	8	52	1661	1902	7.180288	
9	2	8	85.3	1445	-	8.267336	
10	1	8	83	-	-	8.886765	
11	3	8	97.3	1273	1625	9.480355	
12	1	8	62.8	-	-	10.98673	
13	2	8	95.2	1316	-	11.835004	

Bin5 Statistics 22

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	2	15	94.6	1709	-	0.859284	1
1	3	15	91.4	1548	1904	1.117712	
2	1	15	82.7	-	-	2.26392	
3	3	15	77.9	1557	1172	3.752787	
4	2	15	88.5	1562	-	4.620986	
5	1	15	94.7	-	-	5.493847	
6	1	15	50.9	-	-	6.870154	
7	1	15	54.1	-	-	7.653009	
8	1	15	72.9	-	-	8.929187	
9	2	15	81.9	1965	-	9.662288	
10	3	15	62.5	1468	1354	10.461328	
11	2	15	93.6	1136	-	11.405151	

Bin5 Statistics 23

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	2	9	72.3	1291	-	0.957559	1
1	1	9	88	-	-	1.933806	
2	2	9	89.5	1928	-	3.11992	
3	2	9	58.1	1974	-	4.917233	
4	2	9	52.4	1201	-	6.646018	
5	2	9	61.3	1611	-	7.989596	
6	3	9	90.2	1788	1399	8.235267	
7	3	9	77.1	1722	1289	10.205184	
8	1	9	78	-	-	11.673012	

Bin5 Statistics 24

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	7	59.6	1558	1061	0.570866	1
1	1	7	89.8	-	-	2.609378	
2	2	7	80.4	1557	-	3.439297	
3	2	7	73.4	1658	-	4.577452	
4	2	7	90.2	1116	-	5.42336	
5	2	7	60.2	1618	-	7.659268	
6	3	7	69.6	1707	1933	8.434181	
7	3	7	88.9	1520	1142	10.10127	
8	1	7	51.9	-	-	11.98331	

Bin5 Statistics 25

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	2	13	91	1837	-	0.002118	1
1	1	13	64.6	-	-	0.938347	
2	1	13	85.7	-	-	1.894555	
3	2	13	90.7	1014	-	2.48861	
4	3	13	69	1699	1449	3.510033	
5	2	13	81.5	1436	-	4.716437	
6	2	13	96.4	1360	-	5.572194	
7	2	13	89.6	1234	-	5.787789	
8	2	13	75.3	1152	-	7.026281	
9	3	13	64.3	1315	1408	7.868429	
10	1	13	68.2	-	-	8.788163	
11	2	13	79	1656	-	9.136335	
12	1	13	92.9	-	-	10.107325	
13	3	13	87.5	1302	1645	10.949116	
14	2	13	86.8	1822	-	11.311595	

Bin5 Statistics 26

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	9	54	1842	1241	0.069784	1
1	2	9	95.2	1335	-	1.118394	
2	2	9	79.8	1004	-	1.689971	
3	2	9	77.7	1539	-	2.503997	
4	1	9	75.3	-	-	3.063141	
5	2	9	83.5	1104	-	3.586842	
6	3	9	51.3	1453	1511	4.00928	
7	2	9	61.6	1893	-	4.927478	
8	3	9	75.1	1974	1519	5.263136	
9	1	9	91	-	-	6.07399	
10	2	9	55	1955	-	6.681165	
11	2	9	87.2	1250	-	7.559686	
12	1	9	99.1	-	-	8.110603	
13	3	9	76.6	1438	1533	8.714966	
14	2	9	98.5	1500	-	9.061362	
15	1	9	77.4	-	-	9.931802	
16	2	9	98.6	1384	-	10.331571	
17	2	9	77.4	1019	-	11.140301	
18	1	9	59.3	-	-	11.712443	

Bin5 Statistics 27

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	2	10	63.7	1960	-	0.194991	1
1	2	10	89.2	1519	-	1.477929	
2	2	10	99.4	1858	-	1.730124	
3	2	10	76.9	1495	-	3.383405	
4	3	10	72.7	1049	1012	3.58248	
5	3	10	55.2	1209	1077	4.684477	
6	2	10	87.2	1504	-	5.514845	
7	3	10	79.5	1735	1225	6.294468	
8	2	10	77.4	1597	-	7.354159	
9	2	10	59.9	1616	-	8.111156	
10	1	10	50.8	-	-	9.198264	
11	1	10	56.4	-	-	10.114934	
12	2	10	93.2	1312	-	10.952252	
13	2	10	64.1	1147	-	11.392392	

Bin5 Statistics 28

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	2	9	80.7	1181	-	0.121423	1
1	2	9	66.7	1459	-	0.803705	
2	3	9	93.4	1340	1830	1.495733	
3	2	9	89.7	1355	-	2.143257	
4	3	9	86.4	1133	1396	2.595954	
5	2	9	68.9	1999	-	3.6694	
6	3	9	91	1619	1073	3.811364	
7	3	9	97	1474	1942	4.466322	
8	2	9	97.5	1770	-	5.542032	
9	2	9	72.8	1187	-	5.777622	
10	2	9	88	1266	-	6.471485	
11	2	9	79.6	1942	-	7.139185	
12	2	9	72.8	1348	-	7.970899	
13	2	9	62.8	1689	-	8.455046	
14	3	9	84.5	1634	1308	9.313265	
15	3	9	60.5	1049	1896	9.905564	
16	2	9	88	1075	-	10.548816	
17	3	9	79.4	1507	1001	11.218828	
18	1	9	57	-	-	11.525476	

Bin5 Statistics 29

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	2	18	84.8	1061	-	0.429376	1
1	1	18	94.8	-	-	0.851071	
2	1	18	92.2	-	-	1.23877	
3	2	18	81.2	1100	-	2.019421	
4	3	18	93.1	1348	1049	2.454127	
5	2	18	83.7	1348	-	3.081054	
6	2	18	63.5	1286	-	4.18809	
7	3	18	50.2	1503	1619	4.296579	
8	1	18	55	-	-	5.034536	
9	2	18	70.6	1811	-	5.654656	
10	2	18	74.2	1467	-	6.270062	
11	1	18	75.4	-	-	7.16831	
12	2	18	95.9	1637	-	7.51989	
13	1	18	87	-	-	8.015787	
14	2	18	65.3	1594	-	8.729512	
15	3	18	99.8	1884	1227	9.107139	
16	1	18	87.2	-	-	10.120711	
17	3	18	64.6	1066	1947	10.736861	
18	2	18	75.8	1135	-	11.390917	
19	2	18	72.6	1368	-	11.499075	

Bin5 Statistics 30

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	16	59.9	1192	1407	0.306317	1
1	2	16	80.4	1312	-	1.1429	
2	2	16	88.4	1795	-	1.508294	
3	3	16	83.3	1836	1655	2.095351	
4	2	16	94.9	1131	-	2.459822	
5	1	16	53.8	-	-	3.124941	
6	2	16	56	1398	-	3.927745	
7	1	16	70.1	-	-	4.364952	
8	3	16	79.9	1204	1243	4.967532	
9	2	16	89.4	1454	-	5.893949	
10	2	16	84.2	1372	-	6.220709	
11	3	16	82.1	1980	1772	6.955282	
12	2	16	50.6	1937	-	7.441155	
13	2	16	84	1409	-	8.09282	
14	3	16	97.7	1460	1484	8.846381	
15	2	16	97.2	1227	-	9.072167	
16	3	16	69.3	1589	1880	9.96377	
17	2	16	67.4	1509	-	10.373543	
18	3	16	93.1	1119	1629	11.255131	
19	2	16	88.6	1451	-	11.911865	

Table-6 Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)	Hopping Sequence
1	5500	9	1	333	1	5533.0, 5355.0, 5630.0, 5295.0, 5470.0, 5423.0, 5403.0, 5699.0, 5381.0, 5284.0, 5431.0, 5363.0, 5344.0, 5590.0, 5517.0, 5519.0, 5703.0, 5674.0, 5329.0, 5472.0, 5720.0, 5379.0, 5260.0, 5406.0, 5567.0, 5647.0, 5362.0, 5586.0, 5494.0, 5375.0, 5279.0, 5291.0, 5366.0, 5559.0, 5479.0, 5504.0, 5482.0, 5522.0, 5497.0, 5597.0, 5257.0, 5334.0, 5489.0, 5446.0, 5714.0, 5639.0, 5696.0, 5456.0, 5705.0, 5623.0, 5487.0, 5570.0, 5464.0, 5594.0, 5666.0, 5368.0, 5716.0, 5578.0, 5299.0, 5529.0, 5380.0, 5293.0, 5708.0, 5314.0, 5692.0, 5281.0, 5286.0, 5454.0, 5721.0, 5335.0, 5267.0, 5420.0, 5294.0, 5264.0, 5474.0, 5654.0, 5624.0, 5385.0, 5665.0, 5268.0, 5413.0, 5292.0, 5650.0, 5361.0, 5348.0, 5305.0, 5480.0, 5450.0, 5440.0, 5338.0, 5256.0, 5282.0, 5659.0, 5642.0, 5493.0, 5283.0, 5669.0, 5673.0, 5579.0, 5253.0 (number of hits: 4)
2	5500	9	1	333	1	5701.0, 5365.0, 5327.0, 5492.0, 5445.0, 5269.0, 5716.0, 5539.0, 5425.0, 5319.0, 5679.0, 5498.0, 5480.0, 5438.0, 5351.0, 5477.0, 5610.0, 5687.0, 5469.0, 5648.0, 5491.0, 5588.0, 5692.0, 5292.0, 5266.0, 5671.0, 5301.0, 5672.0, 5513.0, 5411.0, 5662.0, 5459.0, 5323.0, 5615.0, 5563.0, 5527.0, 5608.0, 5450.0, 5677.0, 5369.0, 5410.0, 5694.0, 5333.0, 5448.0, 5520.0, 5593.0, 5335.0, 5455.0, 5690.0, 5603.0, 5697.0, 5421.0, 5525.0, 5707.0, 5636.0, 5688.0, 5702.0, 5501.0, 5614.0, 5423.0, 5418.0, 5257.0, 5478.0, 5380.0, 5466.0, 5562.0, 5343.0, 5346.0, 5616.0, 5644.0, 5656.0, 5294.0, 5565.0, 5471.0, 5535.0, 5286.0, 5634.0, 5271.0, 5452.0, 5377.0, 5579.0, 5453.0, 5431.0, 5386.0, 5652.0, 5657.0, 5545.0, 5430.0, 5640.0, 5594.0, 5467.0, 5409.0, 5420.0, 5674.0, 5536.0, 5550.0, 5523.0, 5265.0, 5585.0, 5670.0 (number of hits: 4)
3	5500	9	1	333	1	5603.0, 5535.0, 5301.0, 5270.0, 5448.0, 5536.0, 5615.0, 5407.0, 5664.0, 5460.0, 5441.0, 5714.0, 5626.0, 5502.0, 5473.0, 5585.0, 5265.0, 5294.0, 5320.0, 5396.0, 5376.0, 5495.0, 5457.0, 5640.0, 5412.0, 5380.0, 5321.0, 5290.0, 5291.0, 5513.0, 5329.0, 5579.0, 5404.0, 5422.0, 5590.0, 5306.0, 5511.0, 5500.0, 5506.0, 5632.0, 5440.0, 5406.0, 5369.0, 5695.0, 5595.0, 5563.0, 5338.0, 5437.0, 5362.0, 5718.0, 5570.0, 5680.0, 5651.0, 5432.0, 5261.0, 5498.0, 5557.0, 5642.0, 5494.0, 5507.0, 5589.0, 5345.0, 5592.0, 5309.0, 5308.0

						5505.0, 5705.0, 5565.0, 5483.0, 5566.0, 5637.0, 5689.0, 5578.0, 5420.0, 5586.0, 5446.0, 5360.0, 5258.0, 5515.0, 5476.0, 5521.0, 5522.0, 5414.0, 5374.0, 5518.0, 5721.0, 5462.0, 5472.0, 5298.0, 5622.0, 5660.0, 5517.0, 5458.0, 5384.0, 5623.0, 5509.0, 5633.0, 5499.0, 5333.0, 5377.0 (number of hits: 10)
4	5500	9	1	333	1	5282.0, 5400.0, 5359.0, 5661.0, 5258.0, 5626.0, 5707.0, 5418.0, 5590.0, 5505.0, 5697.0, 5615.0, 5268.0, 5489.0, 5345.0, 5679.0, 5292.0, 5528.0, 5436.0, 5671.0, 5518.0, 5391.0, 5714.0, 5374.0, 5351.0, 5662.0, 5261.0, 5496.0, 5687.0, 5474.0, 5384.0, 5664.0, 5335.0, 5624.0, 5299.0, 5513.0, 5630.0, 5560.0, 5488.0, 5527.0, 5625.0, 5459.0, 5395.0, 5695.0, 5303.0, 5620.0, 5305.0, 5294.0, 5602.0, 5438.0, 5423.0, 5397.0, 5510.0, 5608.0, 5678.0, 5718.0, 5536.0, 5543.0, 5512.0, 5411.0, 5529.0, 5389.0, 5542.0, 5430.0, 5267.0, 5656.0, 5304.0, 5526.0, 5344.0, 5306.0, 5312.0, 5702.0, 5531.0, 5336.0, 5458.0, 5432.0, 5281.0, 5682.0, 5558.0, 5466.0, 5468.0, 5472.0, 5721.0, 5287.0, 5565.0, 5383.0, 5266.0, 5440.0, 5352.0, 5563.0, 5491.0, 5617.0, 5507.0, 5549.0, 5379.0, 5461.0, 5576.0, 5701.0, 5444.0, 5264.0 (number of hits: 4)
5	5500	9	1	333	1	5306.0, 5686.0, 5575.0, 5275.0, 5459.0, 5331.0, 5632.0, 5684.0, 5681.0, 5304.0, 5600.0, 5645.0, 5674.0, 5676.0, 5665.0, 5314.0, 5634.0, 5520.0, 5392.0, 5286.0, 5403.0, 5462.0, 5515.0, 5354.0, 5616.0, 5507.0, 5683.0, 5464.0, 5426.0, 5506.0, 5374.0, 5449.0, 5356.0, 5679.0, 5546.0, 5641.0, 5395.0, 5503.0, 5357.0, 5488.0, 5409.0, 5508.0, 5509.0, 5292.0, 5269.0, 5657.0, 5591.0, 5410.0, 5456.0, 5548.0, 5527.0, 5383.0, 5411.0, 5547.0, 5359.0, 5302.0, 5630.0, 5372.0, 5316.0, 5593.0, 5362.0, 5680.0, 5276.0, 5565.0, 5669.0, 5672.0, 5718.0, 5485.0, 5434.0, 5447.0, 5291.0, 5487.0, 5710.0, 5479.0, 5355.0, 5366.0, 5642.0, 5298.0, 5631.0, 5564.0, 5702.0, 5288.0, 5321.0, 5389.0, 5651.0, 5388.0, 5601.0, 5371.0, 5264.0, 5255.0, 5335.0, 5713.0, 5704.0, 5320.0, 5512.0, 5678.0, 5402.0, 5586.0, 5637.0, 5490.0 (number of hits: 6)
6	5500	9	1	333	1	5310.0, 5436.0, 5590.0, 5584.0, 5295.0, 5312.0, 5697.0, 5670.0, 5315.0, 5291.0, 5673.0, 5352.0, 5556.0, 5682.0, 5356.0, 5639.0, 5437.0, 5300.0, 5714.0, 5701.0, 5301.0, 5693.0, 5486.0, 5587.0, 5364.0, 5425.0, 5667.0, 5586.0, 5519.0, 5724.0, 5531.0, 5469.0, 5593.0, 5296.0, 5325.0, 5378.0, 5550.0, 5678.0, 5654.0, 5610.0, 5523.0, 5548.0, 5380.0, 5375.0, 5302.0, 5421.0, 5451.0, 5662.0, 5503.0, 5417.0,

						5704.0, 5545.0, 5254.0, 5541.0, 5666.0, 5514.0, 5317.0, 5616.0, 5406.0, 5278.0, 5263.0, 5377.0, 5672.0, 5498.0, 5707.0, 5394.0, 5467.0, 5329.0, 5499.0, 5483.0, 5601.0, 5668.0, 5532.0, 5517.0, 5600.0, 5474.0, 5293.0, 5413.0, 5282.0, 5335.0, 5369.0, 5342.0, 5692.0, 5458.0, 5340.0, 5332.0, 5290.0, 5515.0, 5379.0, 5454.0, 5275.0, 5445.0, 5441.0, 5258.0, 5694.0, 5606.0, 5619.0, 5512.0, 5382.0, 5476.0 (number of hits: 3)
7	5500	9	1	333	1	5467.0, 5408.0, 5643.0, 5692.0, 5457.0, 5426.0, 5381.0, 5575.0, 5370.0, 5312.0, 5308.0, 5263.0, 5335.0, 5477.0, 5554.0, 5484.0, 5626.0, 5432.0, 5625.0, 5260.0, 5422.0, 5581.0, 5273.0, 5434.0, 5662.0, 5611.0, 5647.0, 5574.0, 5691.0, 5313.0, 5309.0, 5548.0, 5289.0, 5253.0, 5386.0, 5400.0, 5521.0, 5339.0, 5342.0, 5562.0, 5366.0, 5485.0, 5475.0, 5707.0, 5684.0, 5722.0, 5645.0, 5588.0, 5570.0, 5476.0, 5440.0, 5449.0, 5704.0, 5413.0, 5685.0, 5304.0, 5669.0, 5360.0, 5529.0, 5384.0, 5297.0, 5415.0, 5503.0, 5597.0, 5578.0, 5314.0, 5705.0, 5446.0, 5713.0, 5374.0, 5497.0, 5718.0, 5288.0, 5699.0, 5620.0, 5519.0, 5419.0, 5550.0, 5480.0, 5362.0, 5333.0, 5602.0, 5673.0, 5299.0, 5558.0, 5387.0, 5305.0, 5644.0, 5428.0, 5715.0, 5435.0, 5618.0, 5623.0, 5406.0, 5724.0, 5302.0, 5394.0, 5452.0, 5628.0, 5583.0 (number of hits: 2)
8	5500	9	1	333	1	5257.0, 5414.0, 5330.0, 5413.0, 5474.0, 5415.0, 5668.0, 5641.0, 5559.0, 5626.0, 5645.0, 5406.0, 5421.0, 5261.0, 5713.0, 5443.0, 5329.0, 5560.0, 5496.0, 5512.0, 5657.0, 5282.0, 5711.0, 5268.0, 5652.0, 5631.0, 5536.0, 5450.0, 5616.0, 5552.0, 5347.0, 5483.0, 5719.0, 5607.0, 5270.0, 5321.0, 5524.0, 5592.0, 5471.0, 5501.0, 5660.0, 5484.0, 5366.0, 5681.0, 5346.0, 5569.0, 5362.0, 5375.0, 5694.0, 5516.0, 5381.0, 5486.0, 5373.0, 5634.0, 5673.0, 5274.0, 5424.0, 5547.0, 5688.0, 5600.0, 5423.0, 5508.0, 5469.0, 5436.0, 5572.0, 5548.0, 5386.0, 5422.0, 5252.0, 5456.0, 5372.0, 5522.0, 5412.0, 5276.0, 5692.0, 5638.0, 5665.0, 5263.0, 5314.0, 5701.0, 5697.0, 5485.0, 5724.0, 5625.0, 5359.0, 5351.0, 5304.0, 5402.0, 5623.0, 5377.0, 5397.0, 5632.0, 5521.0, 5718.0, 5312.0, 5699.0, 5295.0, 5558.0, 5445.0, 5712.0 (number of hits: 3)
9	5500	9	1	333	1	5696.0, 5694.0, 5299.0, 5541.0, 5365.0, 5575.0, 5685.0, 5354.0, 5255.0, 5265.0, 5363.0, 5650.0, 5361.0, 5559.0, 5457.0, 5580.0, 5351.0, 5432.0, 5667.0, 5308.0, 5596.0, 5688.0, 5367.0, 5612.0, 5608.0, 5498.0, 5522.0, 5380.0, 5643.0, 5270.0, 5673.0, 5677.0, 5268.0, 5496.0, 5416.0,

						5302.0, 5460.0, 5325.0, 5301.0, 5591.0, 5344.0, 5505.0, 5617.0, 5697.0, 5528.0, 5622.0, 5504.0, 5466.0, 5402.0, 5258.0, 5454.0, 5256.0, 5250.0, 5497.0, 5701.0, 5539.0, 5542.0, 5535.0, 5359.0, 5377.0, 5264.0, 5672.0, 5340.0, 5616.0, 5492.0, 5715.0, 5690.0, 5692.0, 5506.0, 5651.0, 5698.0, 5573.0, 5546.0, 5260.0, 5574.0, 5668.0, 5675.0, 5307.0, 5572.0, 5581.0, 5480.0, 5470.0, 5400.0, 5419.0, 5364.0, 5486.0, 5631.0, 5509.0, 5448.0, 5405.0, 5613.0, 5446.0, 5372.0, 5310.0, 5369.0, 5328.0, 5368.0, 5327.0, 5259.0, 5601.0 (number of hits: 8)
10	5500	9	1	333	1	5651.0, 5720.0, 5563.0, 5458.0, 5302.0, 5517.0, 5498.0, 5418.0, 5351.0, 5303.0, 5625.0, 5474.0, 5441.0, 5559.0, 5250.0, 5262.0, 5665.0, 5420.0, 5325.0, 5423.0, 5341.0, 5410.0, 5525.0, 5611.0, 5654.0, 5681.0, 5571.0, 5687.0, 5431.0, 5533.0, 5412.0, 5335.0, 5573.0, 5425.0, 5487.0, 5258.0, 5383.0, 5450.0, 5477.0, 5557.0, 5530.0, 5362.0, 5575.0, 5592.0, 5387.0, 5684.0, 5704.0, 5560.0, 5379.0, 5626.0, 5672.0, 5489.0, 5692.0, 5263.0, 5676.0, 5717.0, 5636.0, 5395.0, 5340.0, 5648.0, 5621.0, 5566.0, 5589.0, 5632.0, 5578.0, 5637.0, 5690.0, 5442.0, 5452.0, 5321.0, 5382.0, 5556.0, 5305.0, 5527.0, 5343.0, 5691.0, 5536.0, 5635.0, 5427.0, 5546.0, 5677.0, 5464.0, 5396.0, 5480.0, 5462.0, 5567.0, 5605.0, 5664.0, 5580.0, 5542.0, 5307.0, 5275.0, 5599.0, 5398.0, 5403.0, 5473.0, 5308.0, 5583.0, 5481.0, 5609.0 (number of hits: 1)
11	5495	9	1	333	1	5337.0, 5478.0, 5423.0, 5585.0, 5323.0, 5554.0, 5550.0, 5320.0, 5489.0, 5701.0, 5579.0, 5557.0, 5636.0, 5580.0, 5325.0, 5359.0, 5696.0, 5418.0, 5592.0, 5270.0, 5460.0, 5503.0, 5568.0, 5577.0, 5555.0, 5341.0, 5622.0, 5256.0, 5614.0, 5711.0, 5331.0, 5260.0, 5267.0, 5493.0, 5681.0, 5392.0, 5408.0, 5633.0, 5529.0, 5717.0, 5485.0, 5644.0, 5565.0, 5342.0, 5595.0, 5273.0, 5476.0, 5353.0, 5650.0, 5435.0, 5486.0, 5421.0, 5675.0, 5468.0, 5531.0, 5338.0, 5288.0, 5388.0, 5354.0, 5301.0, 5373.0, 5514.0, 5525.0, 5295.0, 5646.0, 5488.0, 5613.0, 5452.0, 5466.0, 5446.0, 5465.0, 5572.0, 5584.0, 5660.0, 5571.0, 5573.0, 5520.0, 5661.0, 5627.0, 5403.0, 5307.0, 5530.0, 5395.0, 5715.0, 5615.0, 5369.0, 5327.0, 5510.0, 5444.0, 5612.0, 5384.0, 5671.0, 5637.0, 5512.0, 5366.0, 5429.0, 5694.0, 5617.0, 5712.0, 5437.0 (number of hits: 6)
12	5495	9	1	333	1	5404.0, 5529.0, 5428.0, 5396.0, 5489.0, 5710.0, 5281.0, 5317.0, 5353.0, 5668.0, 5507.0, 5546.0, 5623.0, 5531.0, 5340.0, 5272.0, 5319.0, 5712.0, 5701.0, 5613.0,

						5257.0, 5702.0, 5647.0, 5334.0, 5694.0, 5643.0, 5517.0, 5535.0, 5562.0, 5309.0, 5388.0, 5639.0, 5566.0, 5559.0, 5580.0, 5352.0, 5399.0, 5391.0, 5590.0, 5579.0, 5398.0, 5338.0, 5434.0, 5420.0, 5705.0, 5302.0, 5271.0, 5493.0, 5607.0, 5276.0, 5486.0, 5700.0, 5288.0, 5650.0, 5586.0, 5662.0, 5542.0, 5548.0, 5483.0, 5572.0, 5381.0, 5673.0, 5597.0, 5418.0, 5290.0, 5344.0, 5441.0, 5573.0, 5656.0, 5713.0, 5568.0, 5591.0, 5557.0, 5465.0, 5289.0, 5488.0, 5521.0, 5524.0, 5407.0, 5278.0, 5336.0, 5355.0, 5395.0, 5384.0, 5536.0, 5464.0, 5707.0, 5377.0, 5265.0, 5332.0, 5422.0, 5262.0, 5658.0, 5347.0, 5645.0, 5555.0, 5551.0, 5484.0, 5369.0, 5634.0 (number of hits: 4)
13	5495	9	1	333	1	5388.0, 5252.0, 5382.0, 5610.0, 5646.0, 5548.0, 5345.0, 5457.0, 5392.0, 5389.0, 5398.0, 5395.0, 5432.0, 5264.0, 5323.0, 5446.0, 5472.0, 5368.0, 5402.0, 5649.0, 5491.0, 5341.0, 5367.0, 5604.0, 5506.0, 5290.0, 5687.0, 5324.0, 5400.0, 5429.0, 5591.0, 5630.0, 5650.0, 5401.0, 5611.0, 5585.0, 5272.0, 5374.0, 5549.0, 5674.0, 5376.0, 5311.0, 5645.0, 5420.0, 5520.0, 5340.0, 5364.0, 5362.0, 5654.0, 5355.0, 5280.0, 5259.0, 5445.0, 5365.0, 5293.0, 5468.0, 5379.0, 5504.0, 5478.0, 5359.0, 5582.0, 5704.0, 5581.0, 5451.0, 5594.0, 5542.0, 5644.0, 5535.0, 5390.0, 5514.0, 5492.0, 5603.0, 5384.0, 5284.0, 5538.0, 5571.0, 5651.0, 5665.0, 5425.0, 5267.0, 5667.0, 5399.0, 5682.0, 5547.0, 5519.0, 5640.0, 5300.0, 5436.0, 5417.0, 5335.0, 5537.0, 5253.0, 5574.0, 5544.0, 5396.0, 5361.0, 5321.0, 5289.0, 5261.0, 5343.0 (number of hits: 3)
14	5495	9	1	333	1	5284.0, 5580.0, 5582.0, 5651.0, 5322.0, 5542.0, 5321.0, 5407.0, 5422.0, 5452.0, 5508.0, 5420.0, 5571.0, 5467.0, 5375.0, 5550.0, 5474.0, 5381.0, 5373.0, 5597.0, 5497.0, 5639.0, 5674.0, 5647.0, 5723.0, 5717.0, 5614.0, 5600.0, 5255.0, 5469.0, 5437.0, 5515.0, 5521.0, 5470.0, 5670.0, 5500.0, 5625.0, 5402.0, 5459.0, 5355.0, 5599.0, 5317.0, 5694.0, 5425.0, 5253.0, 5611.0, 5319.0, 5442.0, 5361.0, 5709.0, 5585.0, 5354.0, 5400.0, 5708.0, 5533.0, 5368.0, 5334.0, 5719.0, 5390.0, 5341.0, 5679.0, 5396.0, 5455.0, 5531.0, 5434.0, 5684.0, 5393.0, 5658.0, 5619.0, 5266.0, 5398.0, 5476.0, 5457.0, 5697.0, 5528.0, 5337.0, 5522.0, 5629.0, 5689.0, 5498.0, 5478.0, 5278.0, 5252.0, 5712.0, 5513.0, 5722.0, 5507.0, 5538.0, 5438.0, 5387.0, 5344.0, 5706.0, 5496.0, 5623.0, 5432.0, 5264.0, 5535.0, 5287.0, 5290.0, 5683.0 (number of hits: 4)
15	5495	9	1	333	1	5645.0, 5530.0, 5585.0, 5529.0, 5275.0,

						5545.0, 5591.0, 5489.0, 5310.0, 5404.0, 5435.0, 5348.0, 5683.0, 5592.0, 5532.0, 5691.0, 5654.0, 5406.0, 5637.0, 5325.0, 5366.0, 5266.0, 5487.0, 5263.0, 5576.0, 5696.0, 5488.0, 5642.0, 5707.0, 5524.0, 5543.0, 5472.0, 5611.0, 5391.0, 5271.0, 5468.0, 5461.0, 5614.0, 5502.0, 5590.0, 5452.0, 5641.0, 5257.0, 5401.0, 5281.0, 5497.0, 5678.0, 5299.0, 5518.0, 5278.0, 5309.0, 5695.0, 5317.0, 5681.0, 5394.0, 5399.0, 5341.0, 5478.0, 5345.0, 5473.0, 5445.0, 5682.0, 5333.0, 5438.0, 5392.0, 5623.0, 5370.0, 5528.0, 5464.0, 5447.0, 5721.0, 5572.0, 5292.0, 5277.0, 5355.0, 5581.0, 5517.0, 5551.0, 5703.0, 5660.0, 5368.0, 5330.0, 5251.0, 5290.0, 5500.0, 5583.0, 5638.0, 5659.0, 5554.0, 5527.0, 5288.0, 5432.0, 5663.0, 5628.0, 5607.0, 5717.0, 5384.0, 5652.0, 5448.0, 5441.0 (number of hits: 6)
16	5495	9	1	333	1	5659.0, 5573.0, 5335.0, 5603.0, 5283.0, 5668.0, 5394.0, 5380.0, 5441.0, 5343.0, 5710.0, 5297.0, 5351.0, 5572.0, 5252.0, 5410.0, 5407.0, 5465.0, 5564.0, 5721.0, 5381.0, 5508.0, 5270.0, 5557.0, 5536.0, 5570.0, 5665.0, 5423.0, 5470.0, 5630.0, 5263.0, 5491.0, 5518.0, 5317.0, 5445.0, 5547.0, 5257.0, 5530.0, 5328.0, 5609.0, 5327.0, 5310.0, 5371.0, 5322.0, 5484.0, 5492.0, 5393.0, 5690.0, 5618.0, 5403.0, 5436.0, 5653.0, 5612.0, 5333.0, 5600.0, 5318.0, 5417.0, 5720.0, 5509.0, 5673.0, 5498.0, 5329.0, 5474.0, 5408.0, 5640.0, 5602.0, 5307.0, 5395.0, 5495.0, 5527.0, 5420.0, 5696.0, 5350.0, 5357.0, 5306.0, 5608.0, 5679.0, 5345.0, 5692.0, 5485.0, 5685.0, 5360.0, 5358.0, 5316.0, 5295.0, 5680.0, 5291.0, 5486.0, 5658.0, 5558.0, 5524.0, 5634.0, 5688.0, 5664.0, 5586.0, 5399.0, 5723.0, 5326.0, 5379.0, 5522.0 (number of hits: 6)
17	5495	9	1	333	1	5371.0, 5497.0, 5313.0, 5459.0, 5689.0, 5467.0, 5319.0, 5348.0, 5374.0, 5630.0, 5625.0, 5302.0, 5670.0, 5377.0, 5580.0, 5665.0, 5721.0, 5538.0, 5344.0, 5720.0, 5522.0, 5415.0, 5328.0, 5470.0, 5362.0, 5605.0, 5657.0, 5685.0, 5341.0, 5399.0, 5653.0, 5281.0, 5534.0, 5600.0, 5550.0, 5525.0, 5303.0, 5256.0, 5601.0, 5615.0, 5338.0, 5369.0, 5706.0, 5616.0, 5635.0, 5656.0, 5327.0, 5558.0, 5588.0, 5520.0, 5573.0, 5387.0, 5589.0, 5306.0, 5269.0, 5647.0, 5395.0, 5494.0, 5490.0, 5464.0, 5626.0, 5413.0, 5272.0, 5610.0, 5583.0, 5602.0, 5634.0, 5693.0, 5425.0, 5351.0, 5357.0, 5690.0, 5346.0, 5318.0, 5511.0, 5592.0, 5691.0, 5373.0, 5386.0, 5718.0, 5593.0, 5391.0, 5293.0, 5628.0, 5660.0, 5260.0, 5489.0, 5552.0, 5545.0, 5586.0, 5426.0, 5705.0, 5401.0, 5531.0, 5510.0,

						5427.0, 5298.0, 5321.0, 5604.0, 5523.0 (number of hits: 4)
18	5495	9	1	333	1	5312.0, 5460.0, 5608.0, 5579.0, 5355.0, 5547.0, 5478.0, 5629.0, 5605.0, 5716.0, 5505.0, 5451.0, 5279.0, 5536.0, 5659.0, 5415.0, 5613.0, 5436.0, 5549.0, 5688.0, 5583.0, 5706.0, 5654.0, 5704.0, 5298.0, 5258.0, 5553.0, 5512.0, 5533.0, 5273.0, 5485.0, 5551.0, 5375.0, 5699.0, 5327.0, 5318.0, 5422.0, 5560.0, 5687.0, 5491.0, 5303.0, 5380.0, 5694.0, 5475.0, 5557.0, 5701.0, 5665.0, 5524.0, 5385.0, 5636.0, 5405.0, 5285.0, 5676.0, 5602.0, 5652.0, 5294.0, 5703.0, 5520.0, 5712.0, 5710.0, 5616.0, 5508.0, 5366.0, 5271.0, 5424.0, 5253.0, 5628.0, 5309.0, 5570.0, 5313.0, 5566.0, 5414.0, 5681.0, 5511.0, 5349.0, 5621.0, 5479.0, 5528.0, 5336.0, 5257.0, 5395.0, 5334.0, 5283.0, 5713.0, 5447.0, 5302.0, 5323.0, 5277.0, 5507.0, 5274.0, 5296.0, 5705.0, 5278.0, 5622.0, 5563.0, 5685.0, 5426.0, 5627.0, 5714.0, 5576.0 (number of hits: 2)
19	5495	9	1	333	1	5490.0, 5405.0, 5618.0, 5700.0, 5457.0, 5358.0, 5445.0, 5690.0, 5367.0, 5614.0, 5709.0, 5321.0, 5587.0, 5257.0, 5668.0, 5716.0, 5558.0, 5266.0, 5584.0, 5529.0, 5664.0, 5461.0, 5720.0, 5489.0, 5421.0, 5580.0, 5578.0, 5282.0, 5530.0, 5520.0, 5511.0, 5625.0, 5447.0, 5535.0, 5372.0, 5389.0, 5682.0, 5370.0, 5293.0, 5553.0, 5402.0, 5616.0, 5264.0, 5707.0, 5507.0, 5583.0, 5701.0, 5537.0, 5654.0, 5348.0, 5508.0, 5334.0, 5291.0, 5446.0, 5659.0, 5699.0, 5534.0, 5470.0, 5340.0, 5715.0, 5263.0, 5491.0, 5251.0, 5394.0, 5413.0, 5585.0, 5392.0, 5476.0, 5567.0, 5339.0, 5666.0, 5326.0, 5518.0, 5652.0, 5312.0, 5492.0, 5608.0, 5552.0, 5462.0, 5662.0, 5523.0, 5551.0, 5521.0, 5419.0, 5630.0, 5581.0, 5388.0, 5361.0, 5607.0, 5283.0, 5426.0, 5454.0, 5472.0, 5354.0, 5414.0, 5613.0, 5554.0, 5320.0, 5352.0, 5628.0 (number of hits: 4)
20	5495	9	1	333	1	5436.0, 5542.0, 5604.0, 5276.0, 5653.0, 5296.0, 5262.0, 5415.0, 5272.0, 5424.0, 5710.0, 5696.0, 5419.0, 5511.0, 5388.0, 5581.0, 5357.0, 5281.0, 5337.0, 5621.0, 5556.0, 5416.0, 5261.0, 5299.0, 5260.0, 5407.0, 5278.0, 5379.0, 5288.0, 5508.0, 5553.0, 5658.0, 5661.0, 5386.0, 5675.0, 5584.0, 5300.0, 5631.0, 5254.0, 5547.0, 5284.0, 5593.0, 5536.0, 5270.0, 5526.0, 5448.0, 5598.0, 5610.0, 5636.0, 5265.0, 5707.0, 5431.0, 5540.0, 5340.0, 5251.0, 5266.0, 5382.0, 5597.0, 5348.0, 5295.0, 5564.0, 5695.0, 5534.0, 5417.0, 5718.0, 5468.0, 5594.0, 5657.0, 5498.0, 5486.0, 5612.0, 5566.0, 5390.0, 5525.0, 5578.0, 5301.0, 5665.0, 5626.0, 5490.0, 5539.0,

						5711.0, 5282.0, 5660.0, 5585.0, 5505.0, 5481.0, 5642.0, 5361.0, 5412.0, 5519.0, 5329.0, 5327.0, 5317.0, 5691.0, 5617.0, 5551.0, 5289.0, 5684.0, 5717.0, 5387.0 (number of hits: 3)
21	5505	9	1	333	1	5640.0, 5347.0, 5676.0, 5373.0, 5328.0, 5484.0, 5386.0, 5564.0, 5663.0, 5448.0, 5597.0, 5645.0, 5655.0, 5324.0, 5648.0, 5315.0, 5594.0, 5578.0, 5323.0, 5367.0, 5562.0, 5430.0, 5721.0, 5561.0, 5360.0, 5509.0, 5264.0, 5607.0, 5457.0, 5396.0, 5390.0, 5581.0, 5662.0, 5459.0, 5683.0, 5407.0, 5566.0, 5346.0, 5410.0, 5434.0, 5516.0, 5592.0, 5293.0, 5421.0, 5699.0, 5558.0, 5460.0, 5698.0, 5603.0, 5402.0, 5687.0, 5502.0, 5601.0, 5451.0, 5489.0, 5600.0, 5337.0, 5695.0, 5475.0, 5395.0, 5473.0, 5455.0, 5571.0, 5292.0, 5476.0, 5615.0, 5429.0, 5705.0, 5317.0, 5513.0, 5593.0, 5604.0, 5344.0, 5255.0, 5523.0, 5478.0, 5283.0, 5680.0, 5722.0, 5298.0, 5336.0, 5659.0, 5639.0, 5684.0, 5306.0, 5267.0, 5445.0, 5466.0, 5577.0, 5679.0, 5470.0, 5400.0, 5704.0, 5626.0, 5553.0, 5279.0, 5596.0, 5487.0, 5313.0, 5623.0 (number of hits: 3)
22	5505	9	1	333	1	5279.0, 5485.0, 5650.0, 5345.0, 5462.0, 5418.0, 5386.0, 5378.0, 5520.0, 5417.0, 5272.0, 5278.0, 5490.0, 5689.0, 5319.0, 5271.0, 5720.0, 5627.0, 5316.0, 5270.0, 5406.0, 5551.0, 5717.0, 5266.0, 5590.0, 5665.0, 5336.0, 5622.0, 5393.0, 5426.0, 5571.0, 5631.0, 5261.0, 5344.0, 5305.0, 5412.0, 5309.0, 5435.0, 5349.0, 5446.0, 5562.0, 5375.0, 5350.0, 5544.0, 5651.0, 5623.0, 5584.0, 5669.0, 5532.0, 5497.0, 5564.0, 5424.0, 5440.0, 5547.0, 5586.0, 5342.0, 5687.0, 5293.0, 5454.0, 5374.0, 5710.0, 5700.0, 5298.0, 5554.0, 5674.0, 5515.0, 5580.0, 5419.0, 5408.0, 5707.0, 5715.0, 5505.0, 5339.0, 5507.0, 5572.0, 5598.0, 5460.0, 5556.0, 5635.0, 5639.0, 5611.0, 5575.0, 5379.0, 5702.0, 5398.0, 5304.0, 5383.0, 5361.0, 5561.0, 5373.0, 5452.0, 5519.0, 5500.0, 5449.0, 5487.0, 5634.0, 5359.0, 5448.0, 5528.0, 5646.0 (number of hits: 4)
23	5505	9	1	333	1	5719.0, 5529.0, 5722.0, 5362.0, 5388.0, 5575.0, 5514.0, 5365.0, 5665.0, 5291.0, 5521.0, 5646.0, 5437.0, 5303.0, 5516.0, 5692.0, 5522.0, 5559.0, 5664.0, 5667.0, 5348.0, 5632.0, 5648.0, 5562.0, 5505.0, 5479.0, 5655.0, 5418.0, 5478.0, 5570.0, 5638.0, 5255.0, 5482.0, 5518.0, 5375.0, 5416.0, 5592.0, 5264.0, 5680.0, 5401.0, 5409.0, 5391.0, 5346.0, 5414.0, 5403.0, 5434.0, 5435.0, 5670.0, 5268.0, 5310.0, 5382.0, 5501.0, 5552.0, 5617.0, 5484.0, 5281.0, 5424.0, 5337.0, 5290.0, 5316.0, 5672.0, 5676.0, 5256.0, 5461.0, 5673.0

						5588.0, 5580.0, 5627.0, 5708.0, 5468.0, 5624.0, 5657.0, 5486.0, 5470.0, 5649.0, 5407.0, 5687.0, 5555.0, 5440.0, 5438.0, 5631.0, 5294.0, 5595.0, 5576.0, 5681.0, 5320.0, 5286.0, 5449.0, 5598.0, 5634.0, 5601.0, 5637.0, 5539.0, 5577.0, 5445.0, 5610.0, 5358.0, 5347.0, 5324.0, 5523.0 (number of hits: 3)
24	5505	9	1	333	1	5643.0, 5532.0, 5679.0, 5267.0, 5275.0, 5522.0, 5651.0, 5577.0, 5561.0, 5450.0, 5280.0, 5695.0, 5471.0, 5343.0, 5420.0, 5540.0, 5460.0, 5636.0, 5682.0, 5628.0, 5391.0, 5378.0, 5291.0, 5436.0, 5669.0, 5294.0, 5414.0, 5316.0, 5685.0, 5533.0, 5341.0, 5441.0, 5292.0, 5581.0, 5310.0, 5477.0, 5281.0, 5302.0, 5607.0, 5278.0, 5642.0, 5488.0, 5640.0, 5376.0, 5413.0, 5639.0, 5723.0, 5546.0, 5598.0, 5671.0, 5326.0, 5435.0, 5566.0, 5558.0, 5412.0, 5358.0, 5555.0, 5273.0, 5525.0, 5475.0, 5431.0, 5372.0, 5647.0, 5500.0, 5254.0, 5562.0, 5465.0, 5298.0, 5346.0, 5462.0, 5645.0, 5638.0, 5698.0, 5324.0, 5374.0, 5329.0, 5424.0, 5362.0, 5550.0, 5256.0, 5673.0, 5632.0, 5716.0, 5419.0, 5526.0, 5440.0, 5286.0, 5585.0, 5355.0, 5576.0, 5367.0, 5567.0, 5338.0, 5288.0, 5706.0, 5371.0, 5510.0, 5589.0, 5557.0, 5604.0 (number of hits: 2)
25	5505	9	1	333	1	5610.0, 5474.0, 5464.0, 5658.0, 5442.0, 5361.0, 5562.0, 5582.0, 5297.0, 5406.0, 5386.0, 5274.0, 5429.0, 5627.0, 5452.0, 5646.0, 5497.0, 5722.0, 5397.0, 5664.0, 5323.0, 5684.0, 5424.0, 5676.0, 5499.0, 5481.0, 5477.0, 5510.0, 5594.0, 5273.0, 5695.0, 5275.0, 5310.0, 5518.0, 5554.0, 5557.0, 5512.0, 5260.0, 5391.0, 5680.0, 5589.0, 5690.0, 5362.0, 5329.0, 5566.0, 5654.0, 5450.0, 5692.0, 5643.0, 5501.0, 5287.0, 5356.0, 5519.0, 5357.0, 5355.0, 5688.0, 5373.0, 5478.0, 5267.0, 5295.0, 5340.0, 5366.0, 5649.0, 5276.0, 5379.0, 5446.0, 5608.0, 5309.0, 5255.0, 5625.0, 5288.0, 5427.0, 5668.0, 5532.0, 5507.0, 5384.0, 5511.0, 5278.0, 5560.0, 5612.0, 5387.0, 5382.0, 5480.0, 5606.0, 5250.0, 5279.0, 5667.0, 5711.0, 5410.0, 5531.0, 5376.0, 5425.0, 5419.0, 5433.0, 5412.0, 5325.0, 5358.0, 5568.0, 5559.0, 5716.0 (number of hits: 7)
26	5505	9	1	333	1	5612.0, 5332.0, 5449.0, 5542.0, 5579.0, 5533.0, 5696.0, 5657.0, 5563.0, 5461.0, 5281.0, 5296.0, 5462.0, 5481.0, 5488.0, 5373.0, 5716.0, 5629.0, 5540.0, 5389.0, 5286.0, 5499.0, 5264.0, 5352.0, 5456.0, 5490.0, 5534.0, 5323.0, 5618.0, 5598.0, 5569.0, 5259.0, 5405.0, 5609.0, 5588.0, 5492.0, 5432.0, 5713.0, 5649.0, 5504.0, 5307.0, 5421.0, 5330.0, 5348.0, 5643.0, 5300.0, 5396.0, 5416.0, 5633.0, 5581.0,

						5535.0, 5276.0, 5467.0, 5620.0, 5587.0, 5715.0, 5268.0, 5547.0, 5573.0, 5702.0, 5427.0, 5622.0, 5355.0, 5282.0, 5695.0, 5408.0, 5623.0, 5705.0, 5518.0, 5254.0, 5344.0, 5601.0, 5684.0, 5472.0, 5600.0, 5667.0, 5477.0, 5571.0, 5676.0, 5652.0, 5556.0, 5548.0, 5555.0, 5428.0, 5402.0, 5687.0, 5277.0, 5712.0, 5491.0, 5379.0, 5483.0, 5523.0, 5271.0, 5260.0, 5350.0, 5688.0, 5475.0, 5574.0, 5450.0, 5511.0 (number of hits: 3)
27	5505	9	1	333	1	5458.0, 5335.0, 5614.0, 5560.0, 5567.0, 5562.0, 5264.0, 5674.0, 5724.0, 5382.0, 5603.0, 5411.0, 5641.0, 5559.0, 5645.0, 5564.0, 5297.0, 5388.0, 5326.0, 5522.0, 5454.0, 5338.0, 5511.0, 5658.0, 5706.0, 5671.0, 5541.0, 5558.0, 5656.0, 5400.0, 5582.0, 5410.0, 5519.0, 5414.0, 5661.0, 5416.0, 5392.0, 5287.0, 5310.0, 5502.0, 5315.0, 5642.0, 5623.0, 5668.0, 5609.0, 5602.0, 5705.0, 5648.0, 5592.0, 5606.0, 5587.0, 5357.0, 5285.0, 5281.0, 5301.0, 5590.0, 5366.0, 5677.0, 5390.0, 5396.0, 5302.0, 5664.0, 5447.0, 5343.0, 5517.0, 5383.0, 5459.0, 5676.0, 5628.0, 5608.0, 5381.0, 5356.0, 5453.0, 5639.0, 5714.0, 5265.0, 5386.0, 5722.0, 5643.0, 5529.0, 5709.0, 5482.0, 5647.0, 5625.0, 5524.0, 5437.0, 5262.0, 5331.0, 5678.0, 5720.0, 5329.0, 5250.0, 5337.0, 5292.0, 5663.0, 5485.0, 5471.0, 5495.0, 5268.0, 5439.0 (number of hits: 3)
28	5505	9	1	333	1	5527.0, 5609.0, 5543.0, 5390.0, 5448.0, 5336.0, 5641.0, 5579.0, 5489.0, 5461.0, 5389.0, 5506.0, 5484.0, 5695.0, 5550.0, 5594.0, 5258.0, 5339.0, 5537.0, 5308.0, 5350.0, 5421.0, 5424.0, 5346.0, 5366.0, 5310.0, 5664.0, 5375.0, 5611.0, 5528.0, 5402.0, 5529.0, 5578.0, 5620.0, 5709.0, 5333.0, 5394.0, 5675.0, 5555.0, 5468.0, 5304.0, 5255.0, 5455.0, 5712.0, 5632.0, 5264.0, 5600.0, 5285.0, 5459.0, 5717.0, 5505.0, 5542.0, 5586.0, 5422.0, 5444.0, 5546.0, 5482.0, 5547.0, 5497.0, 5487.0, 5281.0, 5309.0, 5391.0, 5719.0, 5340.0, 5502.0, 5678.0, 5290.0, 5353.0, 5560.0, 5631.0, 5392.0, 5406.0, 5361.0, 5572.0, 5278.0, 5618.0, 5322.0, 5452.0, 5687.0, 5588.0, 5523.0, 5608.0, 5494.0, 5450.0, 5583.0, 5531.0, 5700.0, 5381.0, 5676.0, 5616.0, 5253.0, 5363.0, 5287.0, 5615.0, 5486.0, 5332.0, 5370.0, 5430.0, 5462.0 (number of hits: 4)
29	5505	9	1	333	1	5272.0, 5681.0, 5703.0, 5436.0, 5373.0, 5441.0, 5294.0, 5572.0, 5504.0, 5440.0, 5540.0, 5287.0, 5352.0, 5535.0, 5618.0, 5645.0, 5620.0, 5710.0, 5478.0, 5351.0, 5387.0, 5503.0, 5450.0, 5477.0, 5350.0, 5711.0, 5462.0, 5344.0, 5346.0, 5413.0, 5418.0, 5495.0, 5302.0, 5444.0, 5638.0,

						5644.0, 5581.0, 5399.0, 5692.0, 5430.0, 5340.0, 5451.0, 5580.0, 5304.0, 5573.0, 5509.0, 5342.0, 5617.0, 5465.0, 5378.0, 5556.0, 5505.0, 5397.0, 5306.0, 5665.0, 5723.0, 5255.0, 5563.0, 5386.0, 5337.0, 5464.0, 5600.0, 5427.0, 5392.0, 5699.0, 5663.0, 5567.0, 5485.0, 5588.0, 5429.0, 5325.0, 5566.0, 5424.0, 5269.0, 5473.0, 5404.0, 5460.0, 5549.0, 5516.0, 5690.0, 5530.0, 5693.0, 5362.0, 5595.0, 5326.0, 5542.0, 5716.0, 5657.0, 5343.0, 5635.0, 5263.0, 5439.0, 5403.0, 5484.0, 5456.0, 5327.0, 5639.0, 5414.0, 5310.0, 5578.0 (number of hits: 5)
30	5505	9	1	333	1	5717.0, 5495.0, 5672.0, 5703.0, 5344.0, 5670.0, 5666.0, 5515.0, 5424.0, 5551.0, 5326.0, 5550.0, 5455.0, 5540.0, 5704.0, 5626.0, 5661.0, 5593.0, 5619.0, 5278.0, 5531.0, 5514.0, 5490.0, 5566.0, 5252.0, 5443.0, 5519.0, 5561.0, 5420.0, 5257.0, 5372.0, 5399.0, 5590.0, 5624.0, 5493.0, 5276.0, 5371.0, 5476.0, 5539.0, 5708.0, 5403.0, 5606.0, 5352.0, 5299.0, 5594.0, 5534.0, 5426.0, 5439.0, 5472.0, 5651.0, 5542.0, 5611.0, 5595.0, 5642.0, 5379.0, 5527.0, 5343.0, 5485.0, 5622.0, 5469.0, 5628.0, 5600.0, 5318.0, 5428.0, 5701.0, 5400.0, 5528.0, 5391.0, 5416.0, 5596.0, 5333.0, 5465.0, 5296.0, 5405.0, 5488.0, 5290.0, 5258.0, 5376.0, 5612.0, 5536.0, 5676.0, 5665.0, 5470.0, 5636.0, 5367.0, 5520.0, 5522.0, 5512.0, 5398.0, 5322.0, 5468.0, 5298.0, 5492.0, 5356.0, 5669.0, 5653.0, 5434.0, 5526.0, 5667.0, 5544.0 (number of hits: 3)

5510 MHz, 40 MHz Bandwidth**Table-1 Radar Type 1A/1B Statistical Performance**

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5510	89	1	598	1
2	5510	83	1	638	1
3	5510	76	1	698	1
4	5510	95	1	558	1
5	5510	65	1	818	1
6	5491	78	1	678	1
7	5491	68	1	778	0
8	5491	70	1	758	1
9	5491	99	1	538	0
10	5491	59	1	898	0
11	5529	67	1	798	1
12	5529	72	1	738	1
13	5529	18	1	3066	1
14	5529	81	1	658	1
15	5529	102	1	518	1
16	5510	100	1	528	1
17	5510	64	1	833	1
18	5510	68	1	781	1
19	5510	24	1	2249	1
20	5510	30	1	1774	1
21	5491	67	1	797	1
22	5491	27	1	1964	1
23	5491	26	1	2054	1
24	5491	39	1	1374	0
25	5491	18	1	3002	0
26	5529	25	1	2174	1
27	5529	32	1	1660	1
28	5529	21	1	2550	1
29	5529	48	1	1103	1
30	5529	60	1	882	0
Detection Percentage: 80 % (>60%)					

Table-2 Radar Type 2 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5510	28	4.4	187	1
2	5510	23	3.4	199	1
3	5510	28	1.4	170	1
4	5510	26	1.8	210	1
5	5510	24	2	213	1
6	5510	23	1.5	223	1
7	5510	27	1.8	160	1
8	5510	23	1.9	205	1
9	5510	27	4.8	215	1
10	5510	28	1.6	186	1
11	5491	25	3.5	188	1
12	5491	23	3	188	0
13	5491	28	3.9	155	0
14	5491	27	1.6	218	1
15	5491	23	2.2	164	1
16	5491	24	3.6	184	0
17	5491	26	2	183	0
18	5491	27	4.7	202	0
19	5491	24	2.9	176	1
20	5491	23	3.3	189	1
21	5529	25	1.1	165	1
22	5529	26	4.5	208	1
23	5529	29	2.5	219	1
24	5529	26	4.2	226	1
25	5529	26	1.8	182	0
26	5529	24	2.6	183	1
27	5529	25	1.2	218	1
28	5529	28	2.4	185	1
29	5529	28	2.4	197	1
30	5529	23	2.6	186	1
Detection Percentage: 80 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5510	17	8	391	1
2	5510	16	8.5	445	1
3	5510	17	8	491	1
4	5510	16	7.2	245	1
5	5510	18	9.9	499	1
6	5510	17	8.6	476	1
7	5510	18	9.8	213	1
8	5510	17	8.9	289	1
9	5510	18	6.3	352	1
10	5510	17	8.5	402	1
11	5491	16	6.2	413	1
12	5491	18	7	374	1
13	5491	18	6.2	399	1
14	5491	17	9.2	339	1
15	5491	16	6.7	475	1
16	5491	17	6.4	445	1
17	5491	16	6.9	225	1
18	5491	16	8.6	331	1
19	5491	16	9	495	1
20	5491	18	8.9	336	1
21	5529	16	9.1	482	0
22	5529	16	8.4	414	1
23	5529	16	6.7	279	1
24	5529	16	9.5	476	1
25	5529	18	6.4	315	1
26	5529	16	6.5	271	1
27	5529	17	9.2	327	0
28	5529	16	9.2	420	1
29	5529	16	8.6	369	1
30	5529	17	6.8	311	1
Detection Percentage: 93.33 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5510	14	16.1	293	1
2	5510	14	11	358	1
3	5510	12	13.6	250	1
4	5510	16	18.7	477	1
5	5510	12	15.7	227	1
6	5510	14	19.6	279	1
7	5510	15	16.2	334	1
8	5510	13	14	437	0
9	5510	16	16.5	249	1
10	5510	13	15.3	310	1
11	5491	13	18.2	476	1
12	5491	14	18.3	375	1
13	5491	14	18.5	486	1
14	5491	15	12.1	379	1
15	5491	13	15.4	450	1
16	5491	16	15.2	209	1
17	5491	15	15.9	495	1
18	5491	12	16.4	219	1
19	5491	13	18.2	232	1
20	5491	14	15.9	267	1
21	5529	12	14.8	472	1
22	5529	16	16.1	342	1
23	5529	14	16.6	270	1
24	5529	14	16.5	293	0
25	5529	12	13.4	303	1
26	5529	14	16	469	0
27	5529	12	18	353	0
28	5529	16	11.4	221	1
29	5529	12	17.4	320	1
30	5529	13	16.4	410	1
Detection Percentage: 86.7% (>60%)					

Table-5 Radar Type 5 Statistical Performance

Trial #	Fc (MHz)	Detection (1:yes; 0:no)
1	5510	1
2	5510	1
3	5510	1
4	5510	1
5	5510	1
6	5510	1
7	5510	1
8	5510	1
9	5510	1
10	5510	1
11	5499.2	1
12	5495.2	1
13	5495.6	1
14	5496.4	1
15	5496.8	1
16	5496.8	1
17	5497.6	1
18	5498	1
19	5498.4	1
20	5496.8	1
21	5524.8	1
22	5521.6	1
23	5521.2	1
24	5525.2	1
25	5522.8	1
26	5525.6	1
27	5523.6	1
28	5520.4	1
29	5525.2	1
30	5521.6	1
Detection Percentage: 100 % (>80%)		

Bin5 Statistics 1

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	1	5	54.7	-	-	0.092104	1
1	2	5	60.9	1284	-	1.002837	
2	1	5	92.1	-	-	1.738369	
3	1	5	63.9	-	-	2.790983	
4	1	5	88	-	-	4.247329	
5	1	5	86.5	-	-	4.383757	
6	2	5	68.9	1685	-	5.656197	
7	3	5	94	1843	1455	6.628879	
8	1	5	68.3	-	-	7.6156	
9	1	5	99.3	-	-	8.122824	
10	3	5	72.1	1834	1157	9.004905	
11	1	5	70.1	-	-	9.912893	
12	1	5	59.2	-	-	10.460483	
13	2	5	50.7	1309	-	11.773832	

Bin5 Statistics 2

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	2	9	64.2	1875	-	1.471936	1
1	3	9	77.9	1926	1892	1.878195	
2	2	9	80.6	1702	-	3.039081	
3	3	9	90.6	1656	1825	5.063661	
4	3	9	64.3	1538	1205	6.309449	
5	2	9	93.1	1739	-	7.605697	
6	1	9	91.2	-	-	9.076132	
7	2	9	87.9	1230	-	11.5977	

Bin5 Statistics 3

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	13	66	1132	1558	0.130434	1
1	3	13	61.6	1957	1855	1.177673	
2	2	13	53.8	1801	-	1.873114	
3	1	13	86.5	-	-	2.391608	
4	2	13	71.4	1569	-	3.480844	
5	3	13	69.3	1492	1267	4.034489	
6	2	13	61.8	1893	-	4.823956	
7	1	13	69.7	-	-	5.197408	
8	1	13	82.2	-	-	6.267674	
9	2	13	60.3	1334	-	6.487143	
10	2	13	60.8	1424	-	7.229193	
11	3	13	54.8	1180	1192	8.127602	
12	3	13	96.2	1106	1454	8.9479	
13	2	13	55.2	1440	-	9.484792	
14	2	13	63.3	1351	-	10.012798	
15	2	13	98.8	1954	-	10.985896	
16	3	13	52.6	1521	1536	11.611344	

Bin5 Statistics 4

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	2	13	81.3	1444	-	0.6675	1
1	1	13	75.9	-	-	1.972307	
2	1	13	75.8	-	-	2.398445	
3	2	13	79.9	1746	-	4.090742	
4	2	13	71	1110	-	4.491707	
5	1	13	87.1	-	-	5.694234	
6	2	13	61.7	1651	-	6.812258	
7	1	13	89.7	-	-	7.636742	
8	2	13	60.5	1658	-	9.113001	
9	2	13	94	1527	-	10.273383	
10	2	13	65.7	1771	-	11.061508	

Bin5 Statistics 5

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	2	6	59.8	1630	-	0.396651	1
1	2	6	50.7	1288	-	1.078642	
2	2	6	53.5	1171	-	1.208976	
3	3	6	51.8	1855	1897	1.978417	
4	2	6	91.5	1757	-	2.538385	
5	2	6	78.4	1744	-	3.151999	
6	2	6	83	1837	-	4.000402	
7	3	6	85	1529	1299	4.673801	
8	2	6	84.9	1252	-	4.849658	
9	2	6	62.8	1933	-	5.504492	
10	3	6	92.7	1383	1032	6.532396	
11	3	6	86.3	1885	1219	7.060445	
12	2	6	64.5	1927	-	7.377986	
13	3	6	88.4	1602	1055	7.880568	
14	2	6	63.3	1381	-	8.522596	
15	2	6	71	1987	-	9.345551	
16	1	6	72.4	-	-	10.173296	
17	3	6	77.1	1463	1329	10.44435	
18	1	6	56.4	-	-	10.936831	
19	1	6	51.4	-	-	11.865633	

Bin5 Statistics 6

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	12	60.1	1402	1218	0.173822	1
1	3	12	66.8	1573	1946	1.250882	
2	3	12	72.9	1064	1443	2.067822	
3	2	12	84.9	1905	-	3.154671	
4	2	12	51.9	1860	-	4.169808	
5	3	12	85.1	1576	1809	4.447594	
6	3	12	78.7	1354	1584	5.840341	
7	2	12	98.9	1387	-	6.697668	
8	3	12	51.6	1688	1245	6.933146	
9	1	12	86.5	-	-	8.072889	
10	2	12	80.3	1297	-	9.234199	
11	3	12	71.6	1446	1220	9.662047	
12	2	12	95.7	1206	-	11.022641	
13	2	12	65.5	1924	-	11.147602	

Bin5 Statistics 7

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	2	5	72.2	1883	-	1.309629	1
1	3	5	50.1	1004	1700	1.664382	
2	2	5	62.6	1754	-	3.749751	
3	2	5	78.6	1323	-	4.594913	
4	2	5	69.6	1687	-	5.528155	
5	3	5	67.9	1885	1239	7.794902	
6	2	5	99	1812	-	8.93784	
7	2	5	76.7	1570	-	10.166004	
8	3	5	68.1	1396	1701	11.128768	

Bin5 Statistics 8

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	2	8	98.8	1433	-	0.157286	1
1	1	8	95.8	-	-	1.426372	
2	3	8	50.3	1334	1806	3.06936	
3	3	8	72.9	1901	1523	3.430372	
4	2	8	95.8	1445	-	5.193902	
5	2	8	68.6	1939	-	6.248795	
6	2	8	61.2	1602	-	7.120882	
7	2	8	80.6	1680	-	7.950391	
8	3	8	96.1	1730	1911	9.730267	
9	2	8	68.7	1721	-	10.64512	
10	2	8	53.8	1428	-	11.923634	

Bin5 Statistics 9

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	2	15	75.3	1009	-	1.156134	1
1	3	15	56.5	1031	1140	1.200634	
2	3	15	53.1	1042	1264	2.709262	
3	3	15	70.1	1058	1406	4.185761	
4	2	15	81.7	1512	-	4.856508	
5	1	15	67.8	-	-	6.324889	
6	1	15	70.9	-	-	8.359239	
7	2	15	60.1	1922	-	8.995852	
8	2	15	65.1	1240	-	10.656193	
9	2	15	81.1	1382	-	11.318814	

Bin5 Statistics 10

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	1	13	89.7	-	-	0.639005	1
1	3	13	66.5	1855	1858	1.123913	
2	1	13	51.4	-	-	1.52903	
3	1	13	82.4	-	-	2.783837	
4	2	13	89.9	1061	-	3.657825	
5	2	13	88.5	1523	-	3.947651	
6	1	13	58.4	-	-	5.063465	
7	3	13	63.3	1164	1561	5.268015	
8	2	13	71	1582	-	6.087353	
9	3	13	97.5	1498	1617	7.391316	
10	2	13	86.7	1524	-	7.843121	
11	2	13	51.3	1541	-	8.309487	
12	1	13	78.6	-	-	9.247127	
13	3	13	72.4	1682	1562	9.983961	
14	2	13	84	1219	-	10.769111	
15	2	13	73	1270	-	11.54507	

Bin5 Statistics 11

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	1	18	98.7	-	-	0.543814	1
1	2	18	79.2	1164	-	0.956682	
2	3	18	86	1925	1853	1.915635	
3	3	18	91.7	1902	1710	2.639893	
4	2	18	98.8	1717	-	3.235903	
5	2	18	57.1	1609	-	3.344551	
6	2	18	74.4	1519	-	4.012701	
7	2	18	81	1903	-	4.798788	
8	1	18	55.8	-	-	5.809551	
9	3	18	99.8	1924	1039	6.590714	
10	2	18	74.7	1638	-	6.796246	
11	2	18	90.6	1972	-	7.481887	
12	2	18	58.2	1435	-	8.106702	
13	2	18	78.6	1969	-	9.075605	
14	2	18	81.4	1839	-	9.917073	
15	2	18	64.8	1748	-	10.085995	
16	1	18	55.1	-	-	10.907442	
17	2	18	98.6	1727	-	11.762228	

Bin5 Statistics 12

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	2	8	52.1	1054	-	0.196023	1
1	2	8	85.6	1190	-	0.9313	
2	2	8	89.8	1203	-	1.632722	
3	3	8	86.8	1466	1723	2.293802	
4	1	8	73.2	-	-	2.86841	
5	2	8	83.7	1323	-	3.204873	
6	1	8	98.9	-	-	4.362855	
7	1	8	52.1	-	-	4.778853	
8	2	8	63.1	1058	-	5.411845	
9	2	8	77.9	1277	-	5.693995	
10	3	8	91.7	1337	1205	6.439327	
11	1	8	80.6	-	-	7.24319	
12	1	8	96	-	-	8.07778	
13	2	8	89.4	1216	-	8.596572	
14	3	8	59.5	1700	1267	9.093637	
15	2	8	69.4	1560	-	9.526805	
16	2	8	64.4	1335	-	10.13366	
17	3	8	77.9	1686	1741	11.250773	
18	3	8	89.8	1384	1397	11.696106	

Bin5 Statistics 13

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	1	9	92.3	-	-	0.202477	1
1	1	9	60	-	-	1.527971	
2	2	9	95.2	1498	-	1.786842	
3	1	9	56.4	-	-	3.239544	
4	1	9	52.9	-	-	4.128496	
5	1	9	85.7	-	-	4.290034	
6	2	9	70.8	1287	-	5.727866	
7	3	9	77.8	1849	1129	6.656904	
8	3	9	77.5	1705	1252	7.255632	
9	3	9	69.8	1335	1612	7.914246	
10	3	9	78.9	1750	1792	8.635801	
11	2	9	51.2	1747	-	10.108079	
12	1	9	76.9	-	-	10.836701	
13	3	9	56.4	1921	1456	11.480224	

Bin5 Statistics 14

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	1	11	80.4	-	-	0.568153	1
1	2	11	58.6	1831	-	1.429391	
2	2	11	54	1132	-	3.034437	
3	1	11	53.8	-	-	3.552563	
4	2	11	96.4	1960	-	4.722584	
5	2	11	53.4	1943	-	5.700716	
6	2	11	75	1399	-	7.580054	
7	3	11	87.8	1872	1385	8.648445	
8	2	11	85.9	1647	-	9.415229	
9	3	11	60.1	1474	1391	10.57125	
10	2	11	90.2	1655	-	11.552301	

Bin5 Statistics 15

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	12	60.3	1986	1743	0.398139	1
1	2	12	61.2	1130	-	2.583152	
2	3	12	69.1	1978	1218	2.994755	
3	3	12	52.7	1969	1742	4.66041	
4	1	12	99	-	-	5.573401	
5	3	12	98.1	1789	1223	6.935131	
6	2	12	94.4	1254	-	9.231171	
7	1	12	50.4	-	-	9.629055	
8	2	12	90.3	1916	-	10.863592	

Bin5 Statistics 16

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	1	12	52.8	-	-	1.095461	1
1	2	12	83.2	1757	-	2.240107	
2	2	12	65	1777	-	2.651534	
3	2	12	57.4	1622	-	4.684004	
4	2	12	81.8	1504	-	5.319426	
5	2	12	82.7	1108	-	6.959161	
6	2	12	77.9	1150	-	8.383392	
7	2	12	72.3	1156	-	9.173482	
8	2	12	66.1	1497	-	10.374842	
9	3	12	91.1	1633	1220	11.589521	

Bin5 Statistics 17

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	1	14	97.9	-	-	0.886486	1
1	1	14	62.5	-	-	1.140829	
2	2	14	65.5	1964	-	3.225538	
3	3	14	59.5	1528	1780	4.323801	
4	2	14	98.1	1821	-	5.067931	
5	2	14	64.3	1971	-	6.251237	
6	3	14	63.7	1533	1376	7.1178	
7	2	14	63.7	1333	-	7.754816	
8	2	14	77.1	1725	-	9.769194	
9	3	14	74.3	1941	1338	9.968989	
10	2	14	80.1	1946	-	11.411963	

Bin5 Statistics 18

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	1	15	65.4	-	-	0.66185	1
1	1	15	64.8	-	-	1.787118	
2	3	15	76.2	1522	1091	2.743197	
3	1	15	69.5	-	-	3.414319	
4	1	15	89.3	-	-	4.580868	
5	3	15	82.5	1193	1281	5.047096	
6	1	15	98.2	-	-	5.999968	
7	2	15	67	1355	-	7.19456	
8	2	15	95.4	1397	-	7.88607	
9	3	15	92.2	1142	1948	8.430682	
10	2	15	82.6	1408	-	9.829005	
11	3	15	65.1	1222	1266	10.87014	
12	2	15	67.6	1118	-	11.98496	

Bin5 Statistics 19

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	2	16	77.3	1571	-	0.854193	1
1	2	16	77.6	1447	-	1.551747	
2	1	16	81.7	-	-	2.282604	
3	2	16	91.7	1770	-	3.538955	
4	2	16	71	1151	-	5.367909	
5	1	16	91.7	-	-	6.18725	
6	2	16	55.7	1827	-	6.637178	
7	1	16	85.7	-	-	7.81599	
8	2	16	65.7	1961	-	9.342591	
9	3	16	90.1	1728	1357	10.845596	
10	3	16	80.2	1699	1682	11.166177	

Bin5 Statistics 20

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	1	12	97	-	-	0.207236	1
1	3	12	99.6	1284	1014	0.810158	
2	2	12	67.8	1036	-	2.322082	
3	3	12	88.9	1047	1921	3.160081	
4	2	12	55.3	1991	-	3.469558	
5	2	12	59.1	1442	-	4.523263	
6	2	12	77.1	1128	-	4.982019	
7	2	12	81.9	1765	-	6.182927	
8	1	12	85.3	-	-	6.776138	
9	1	12	68.7	-	-	7.302626	
10	3	12	93.3	1205	1390	8.242847	
11	2	12	73.4	1882	-	9.201035	
12	2	12	76	1689	-	10.258773	
13	2	12	86.6	1253	-	10.590154	
14	1	12	70.2	-	-	11.647941	

Bin5 Statistics 21

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	2	8	78.6	1658	-	0.473631	1
1	2	8	56.7	1471	-	1.4377	
2	2	8	64.9	1093	-	2.786806	
3	2	8	83.1	1833	-	3.79092	
4	2	8	83	1857	-	4.620509	
5	2	8	57.5	1753	-	5.566358	
6	1	8	98.9	-	-	6.475289	
7	2	8	77.1	1711	-	7.681099	
8	3	8	85.8	1116	1528	8.989077	
9	1	8	99.1	-	-	9.870779	
10	2	8	72.1	1038	-	10.466238	
11	2	8	98.5	1253	-	11.932552	

Bin5 Statistics 22

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	2	16	62.4	1347	-	0.722269	1
1	3	16	74.5	1810	1438	1.389752	
2	3	16	67.8	1050	1802	2.551973	
3	3	16	53.5	1528	1960	3.313354	
4	3	16	88.1	1342	1668	4.076629	
5	2	16	85.1	1308	-	5.380682	
6	1	16	55.1	-	-	6.075847	
7	2	16	57.3	1145	-	7.479574	
8	2	16	52.8	1068	-	8.924324	
9	1	16	68.4	-	-	9.30539	
10	1	16	90.8	-	-	10.798342	
11	1	16	89	-	-	11.72191	

Bin5 Statistics 23

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	2	17	63.1	1940	-	0.258851	1
1	1	17	59.3	-	-	0.83617	
2	1	17	78.5	-	-	1.477142	
3	2	17	77.9	1703	-	2.245843	
4	1	17	81.7	-	-	3.128728	
5	3	17	79.7	1023	1186	3.527051	
6	1	17	58.7	-	-	4.224088	
7	2	17	90.8	1032	-	5.032876	
8	3	17	98	1275	1426	5.17571	
9	2	17	86.3	1565	-	5.74069	
10	2	17	78.2	1133	-	6.404343	
11	1	17	59.6	-	-	7.575916	
12	3	17	89.7	1765	1416	7.858343	
13	2	17	50	1234	-	8.486352	
14	3	17	76.3	1594	1630	9.098958	
15	2	17	67.2	1737	-	9.897786	
16	2	17	82.9	1359	-	10.541271	
17	1	17	53.4	-	-	11.069477	
18	1	17	57.1	-	-	11.654087	

Bin5 Statistics 24

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	2	7	58.5	1679	-	0.492712	1
1	2	7	97.9	1410	-	1.464341	
2	1	7	55	-	-	1.718572	
3	1	7	63.7	-	-	2.467994	
4	3	7	70	1056	1342	3.811523	
5	1	7	59.5	-	-	4.613826	
6	2	7	81.7	1600	-	5.526609	
7	2	7	83	1586	-	6.0757	
8	3	7	76.5	1215	1459	6.689767	
9	2	7	93.2	1498	-	7.552339	
10	2	7	66.1	1184	-	8.698369	
11	2	7	69.2	1355	-	9.005334	
12	3	7	52.4	1484	1198	9.791616	
13	1	7	98.9	-	-	10.639398	
14	1	7	81.6	-	-	11.590782	

Bin5 Statistics 25

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	2	13	96.1	1993	-	0.762622	1
1	3	13	96.4	1101	1002	1.662713	
2	2	13	62.5	1512	-	2.308028	
3	2	13	66.4	1763	-	3.203316	
4	1	13	93.2	-	-	4.219159	
5	1	13	52.5	-	-	5.528183	
6	1	13	84.3	-	-	6.268977	
7	2	13	96.4	1741	-	6.975997	
8	2	13	86.8	1851	-	8.168141	
9	3	13	93.7	1810	1429	8.885226	
10	3	13	54.5	1900	1539	10.034627	
11	2	13	63.1	1972	-	11.01057	
12	2	13	51.6	1245	-	11.581298	

Bin5 Statistics 26

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	2	6	56.9	1136	-	0.019879	1
1	3	6	64.5	1826	1267	0.922935	
2	1	6	52.4	-	-	1.679783	
3	2	6	85.8	1164	-	2.25277	
4	2	6	63.6	1003	-	3.042844	
5	1	6	87.6	-	-	4.010096	
6	1	6	63.6	-	-	4.713632	
7	1	6	59.9	-	-	5.575065	
8	2	6	93.8	1033	-	6.128036	
9	1	6	92.3	-	-	6.626177	
10	2	6	51.4	1759	-	7.266094	
11	3	6	77.6	1028	1587	8.427549	
12	2	6	66.9	1688	-	8.476659	
13	2	6	85.3	1596	-	9.652083	
14	2	6	84.9	1066	-	10.523597	
15	2	6	93.6	1140	-	10.844885	
16	3	6	60.1	1265	1262	11.605198	

Bin5 Statistics 27

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	11	91.4	1146	1680	0.570948	1
1	1	11	59.5	-	-	0.986001	
2	2	11	71.2	1544	-	2.363598	
3	1	11	58.1	-	-	3.01851	
4	2	11	79.3	1603	-	3.753093	
5	1	11	78.9	-	-	4.786303	
6	3	11	70	1992	1482	5.883806	
7	3	11	72.6	1270	1911	6.213518	
8	2	11	60.9	1118	-	7.002043	
9	1	11	82.4	-	-	7.758954	
10	3	11	84.8	1056	1053	8.750799	
11	2	11	65.7	1965	-	9.515969	
12	1	11	65.7	-	-	10.323571	
13	2	11	57.6	1762	-	11.958724	

Bin5 Statistics 28

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	19	89.7	1714	1432	0.524232	1
1	2	19	95.3	1852	-	1.668271	
2	3	19	71.6	1821	1814	2.190373	
3	2	19	55.8	1406	-	3.08332	
4	3	19	94.3	1303	1599	4.524973	
5	1	19	72.9	-	-	4.773786	
6	3	19	58.7	1290	1112	5.689568	
7	2	19	65.3	1473	-	6.96237	
8	3	19	65	1345	1736	7.483026	
9	3	19	50.6	1423	1772	9.118705	
10	2	19	71	1553	-	9.336987	
11	2	19	52.2	1144	-	10.647038	
12	2	19	85.3	1714	-	11.730541	

Bin5 Statistics 29

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	2	7	76.7	1478	-	0.718648	1
1	2	7	58.2	1173	-	1.400317	
2	3	7	100	1815	1087	2.68708	
3	2	7	64.4	1366	-	4.430936	
4	1	7	59	-	-	5.84976	
5	1	7	99.5	-	-	6.55121	
6	2	7	71.5	1338	-	8.146322	
7	2	7	78	1907	-	9.262251	
8	2	7	64.7	1865	-	10.761439	
9	2	7	70.4	1756	-	11.255718	

Bin5 Statistics 30

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	16	76.1	1445	1463	0.370767	1
1	2	16	62.8	1182	-	0.866961	
2	3	16	65.2	1678	1073	1.461887	
3	1	16	72.1	-	-	1.923783	
4	3	16	94.3	1046	1852	2.769451	
5	1	16	81	-	-	3.224991	
6	2	16	92	1397	-	3.997251	
7	2	16	75.9	1485	-	5.019709	
8	2	16	72.5	1340	-	5.191289	
9	2	16	50.2	1119	-	5.814384	
10	2	16	58.3	1324	-	6.57227	
11	3	16	52.2	1968	1990	7.442113	
12	2	16	54.7	1663	-	7.876375	
13	2	16	60.3	1604	-	8.803437	
14	3	16	72.5	1050	1092	8.885664	
15	1	16	68	-	-	10.065747	
16	3	16	77.7	1770	1042	10.722738	
17	2	16	62.2	1311	-	11.137083	
18	2	16	99.2	1880	-	11.678612	

Table-6 Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)	Hopping Sequence
1	5510	9	1	333	1	5423.0, 5312.0, 5703.0, 5410.0, 5550.0, 5648.0, 5709.0, 5503.0, 5269.0, 5704.0, 5489.0, 5592.0, 5481.0, 5280.0, 5700.0, 5526.0, 5359.0, 5684.0, 5587.0, 5467.0, 5637.0, 5258.0, 5251.0, 5539.0, 5538.0, 5697.0, 5534.0, 5272.0, 5506.0, 5433.0, 5386.0, 5708.0, 5570.0, 5376.0, 5711.0, 5367.0, 5479.0, 5313.0, 5504.0, 5293.0, 5458.0, 5712.0, 5583.0, 5454.0, 5499.0, 5298.0, 5283.0, 5650.0, 5273.0, 5404.0, 5632.0, 5415.0, 5581.0, 5287.0, 5715.0, 5447.0, 5364.0, 5331.0, 5603.0, 5306.0, 5375.0, 5372.0, 5352.0, 5483.0, 5699.0, 5521.0, 5470.0, 5668.0, 5289.0, 5442.0, 5335.0, 5621.0, 5399.0, 5663.0, 5626.0, 5402.0, 5530.0, 5388.0, 5721.0, 5624.0, 5469.0, 5432.0, 5264.0, 5655.0, 5321.0, 5301.0, 5391.0, 5262.0, 5309.0, 5572.0, 5602.0, 5634.0, 5707.0, 5394.0, 5691.0, 5363.0, 5460.0, 5527.0, 5448.0, 5379.0 (number of hits: 7)
2	5510	9	1	333	1	5461.0, 5430.0, 5634.0, 5304.0, 5629.0, 5578.0, 5614.0, 5338.0, 5340.0, 5390.0, 5648.0, 5528.0, 5347.0, 5676.0, 5616.0, 5553.0, 5400.0, 5416.0, 5644.0, 5439.0, 5580.0, 5670.0, 5344.0, 5310.0, 5555.0, 5354.0, 5716.0, 5534.0, 5667.0, 5423.0, 5419.0, 5513.0, 5570.0, 5557.0, 5413.0, 5459.0, 5588.0, 5694.0, 5351.0, 5335.0, 5349.0, 5569.0, 5712.0, 5610.0, 5358.0, 5331.0, 5707.0, 5451.0, 5714.0, 5658.0, 5379.0, 5411.0, 5689.0, 5321.0, 5638.0, 5572.0, 5373.0, 5492.0, 5527.0, 5299.0, 5536.0, 5493.0, 5484.0, 5259.0, 5328.0, 5336.0, 5526.0, 5657.0, 5595.0, 5713.0, 5467.0, 5615.0, 5442.0, 5392.0, 5709.0, 5550.0, 5403.0, 5460.0, 5489.0, 5680.0, 5718.0, 5702.0, 5352.0, 5405.0, 5518.0, 5301.0, 5388.0, 5631.0, 5389.0, 5558.0, 5386.0, 5584.0, 5632.0, 5370.0, 5355.0, 5286.0, 5649.0, 5646.0, 5289.0, 5640.0 (number of hits: 7)
3	5510	9	1	333	1	5476.0, 5498.0, 5552.0, 5640.0, 5293.0, 5654.0, 5674.0, 5651.0, 5297.0, 5708.0, 5296.0, 5500.0, 5441.0, 5422.0, 5571.0, 5400.0, 5420.0, 5318.0, 5482.0, 5357.0, 5436.0, 5321.0, 5263.0, 5618.0, 5596.0, 5443.0, 5261.0, 5310.0, 5547.0, 5453.0, 5574.0, 5333.0, 5536.0, 5533.0, 5324.0, 5472.0, 5307.0, 5266.0, 5270.0, 5656.0, 5492.0, 5686.0, 5529.0, 5662.0, 5531.0, 5395.0, 5268.0, 5572.0, 5467.0, 5644.0, 5718.0, 5401.0, 5277.0, 5391.0, 5478.0, 5378.0, 5275.0, 5415.0, 5460.0, 5564.0, 5584.0, 5670.0, 5601.0, 5419.0, 5506.0,

						5689.0, 5721.0, 5675.0, 5486.0, 5458.0, 5407.0, 5452.0, 5384.0, 5283.0, 5694.0, 5704.0, 5394.0, 5404.0, 5259.0, 5561.0, 5567.0, 5518.0, 5598.0, 5595.0, 5509.0, 5578.0, 5409.0, 5468.0, 5295.0, 5285.0, 5284.0, 5665.0, 5484.0, 5473.0, 5634.0, 5521.0, 5629.0, 5455.0, 5485.0, 5475.0 (number of hits: 8)
4	5510	9	1	333	1	5276.0, 5416.0, 5494.0, 5689.0, 5299.0, 5713.0, 5332.0, 5548.0, 5650.0, 5352.0, 5683.0, 5582.0, 5360.0, 5500.0, 5424.0, 5284.0, 5391.0, 5714.0, 5438.0, 5427.0, 5349.0, 5300.0, 5477.0, 5672.0, 5448.0, 5410.0, 5512.0, 5722.0, 5346.0, 5337.0, 5275.0, 5507.0, 5624.0, 5367.0, 5519.0, 5701.0, 5470.0, 5510.0, 5527.0, 5288.0, 5442.0, 5646.0, 5552.0, 5638.0, 5364.0, 5556.0, 5620.0, 5302.0, 5439.0, 5554.0, 5636.0, 5354.0, 5483.0, 5674.0, 5560.0, 5298.0, 5324.0, 5685.0, 5583.0, 5576.0, 5297.0, 5405.0, 5698.0, 5392.0, 5414.0, 5443.0, 5633.0, 5423.0, 5553.0, 5673.0, 5372.0, 5501.0, 5707.0, 5699.0, 5408.0, 5644.0, 5479.0, 5480.0, 5313.0, 5468.0, 5312.0, 5462.0, 5558.0, 5518.0, 5348.0, 5374.0, 5268.0, 5265.0, 5669.0, 5314.0, 5603.0, 5277.0, 5687.0, 5459.0, 5550.0, 5528.0, 5684.0, 5286.0, 5485.0, 5271.0 (number of hits: 10)
5	5510	9	1	333	1	5711.0, 5692.0, 5614.0, 5338.0, 5560.0, 5685.0, 5321.0, 5716.0, 5317.0, 5284.0, 5664.0, 5424.0, 5651.0, 5484.0, 5301.0, 5329.0, 5545.0, 5557.0, 5318.0, 5537.0, 5458.0, 5514.0, 5705.0, 5360.0, 5635.0, 5610.0, 5274.0, 5639.0, 5256.0, 5282.0, 5447.0, 5576.0, 5506.0, 5259.0, 5544.0, 5538.0, 5666.0, 5412.0, 5677.0, 5443.0, 5524.0, 5628.0, 5603.0, 5525.0, 5298.0, 5279.0, 5542.0, 5400.0, 5496.0, 5420.0, 5332.0, 5464.0, 5518.0, 5305.0, 5350.0, 5714.0, 5586.0, 5567.0, 5494.0, 5701.0, 5285.0, 5478.0, 5475.0, 5676.0, 5275.0, 5688.0, 5597.0, 5428.0, 5709.0, 5521.0, 5330.0, 5267.0, 5547.0, 5445.0, 5353.0, 5641.0, 5372.0, 5276.0, 5477.0, 5354.0, 5556.0, 5492.0, 5432.0, 5365.0, 5722.0, 5490.0, 5474.0, 5481.0, 5574.0, 5366.0, 5663.0, 5680.0, 5550.0, 5444.0, 5723.0, 5675.0, 5626.0, 5565.0, 5647.0, 5573.0 (number of hits: 10)
6	5510	9	1	333	1	5541.0, 5687.0, 5626.0, 5698.0, 5471.0, 5506.0, 5294.0, 5296.0, 5599.0, 5531.0, 5682.0, 5675.0, 5282.0, 5534.0, 5472.0, 5641.0, 5518.0, 5573.0, 5273.0, 5637.0, 5649.0, 5265.0, 5629.0, 5493.0, 5474.0, 5542.0, 5570.0, 5370.0, 5489.0, 5597.0, 5623.0, 5301.0, 5276.0, 5277.0, 5300.0, 5604.0, 5361.0, 5353.0, 5594.0, 5523.0, 5593.0, 5662.0, 5509.0, 5595.0, 5283.0, 5367.0, 5419.0, 5694.0, 5378.0, 5332.0,

						5673.0, 5635.0, 5502.0, 5683.0, 5390.0, 5714.0, 5342.0, 5664.0, 5461.0, 5357.0, 5258.0, 5598.0, 5441.0, 5713.0, 5306.0, 5564.0, 5468.0, 5314.0, 5680.0, 5431.0, 5611.0, 5550.0, 5434.0, 5562.0, 5655.0, 5381.0, 5601.0, 5505.0, 5430.0, 5384.0, 5707.0, 5406.0, 5358.0, 5724.0, 5380.0, 5252.0, 5610.0, 5333.0, 5418.0, 5368.0, 5483.0, 5360.0, 5272.0, 5504.0, 5643.0, 5572.0, 5719.0, 5440.0, 5527.0, 5460.0 (number of hits: 9)
7	5510	9	1	333	1	5709.0, 5281.0, 5529.0, 5402.0, 5663.0, 5530.0, 5505.0, 5494.0, 5398.0, 5626.0, 5272.0, 5498.0, 5436.0, 5301.0, 5306.0, 5716.0, 5310.0, 5567.0, 5649.0, 5368.0, 5258.0, 5322.0, 5624.0, 5383.0, 5555.0, 5416.0, 5349.0, 5463.0, 5392.0, 5690.0, 5680.0, 5682.0, 5316.0, 5417.0, 5261.0, 5592.0, 5363.0, 5448.0, 5644.0, 5382.0, 5681.0, 5642.0, 5271.0, 5531.0, 5514.0, 5256.0, 5467.0, 5366.0, 5553.0, 5288.0, 5411.0, 5311.0, 5563.0, 5604.0, 5452.0, 5552.0, 5257.0, 5304.0, 5497.0, 5273.0, 5600.0, 5418.0, 5430.0, 5588.0, 5578.0, 5650.0, 5479.0, 5331.0, 5458.0, 5616.0, 5290.0, 5442.0, 5423.0, 5549.0, 5395.0, 5621.0, 5372.0, 5722.0, 5541.0, 5519.0, 5679.0, 5428.0, 5407.0, 5468.0, 5491.0, 5400.0, 5384.0, 5617.0, 5353.0, 5447.0, 5282.0, 5627.0, 5385.0, 5370.0, 5633.0, 5689.0, 5465.0, 5347.0, 5410.0, 5571.0 (number of hits: 8)
8	5510	9	1	333	1	5468.0, 5694.0, 5453.0, 5494.0, 5492.0, 5339.0, 5310.0, 5297.0, 5684.0, 5253.0, 5479.0, 5591.0, 5707.0, 5477.0, 5620.0, 5416.0, 5511.0, 5713.0, 5598.0, 5431.0, 5692.0, 5379.0, 5285.0, 5257.0, 5250.0, 5274.0, 5705.0, 5450.0, 5617.0, 5518.0, 5651.0, 5290.0, 5624.0, 5324.0, 5640.0, 5313.0, 5498.0, 5490.0, 5415.0, 5308.0, 5317.0, 5638.0, 5475.0, 5425.0, 5689.0, 5646.0, 5386.0, 5667.0, 5657.0, 5528.0, 5312.0, 5703.0, 5337.0, 5603.0, 5360.0, 5400.0, 5522.0, 5365.0, 5632.0, 5292.0, 5631.0, 5493.0, 5521.0, 5454.0, 5693.0, 5401.0, 5674.0, 5606.0, 5565.0, 5559.0, 5483.0, 5568.0, 5434.0, 5516.0, 5702.0, 5625.0, 5428.0, 5451.0, 5615.0, 5501.0, 5699.0, 5670.0, 5447.0, 5584.0, 5265.0, 5268.0, 5278.0, 5421.0, 5426.0, 5330.0, 5527.0, 5314.0, 5543.0, 5619.0, 5341.0, 5551.0, 5409.0, 5590.0, 5723.0, 5418.0 (number of hits: 13)
9	5510	9	1	333	1	5494.0, 5434.0, 5571.0, 5422.0, 5271.0, 5490.0, 5373.0, 5307.0, 5529.0, 5291.0, 5686.0, 5259.0, 5323.0, 5504.0, 5679.0, 5406.0, 5322.0, 5588.0, 5580.0, 5442.0, 5646.0, 5650.0, 5379.0, 5445.0, 5278.0, 5718.0, 5664.0, 5306.0, 5674.0, 5342.0, 5541.0, 5355.0, 5397.0, 5688.0, 5458.0,

						5398.0, 5284.0, 5332.0, 5576.0, 5336.0, 5472.0, 5387.0, 5621.0, 5377.0, 5453.0, 5280.0, 5502.0, 5673.0, 5302.0, 5309.0, 5495.0, 5550.0, 5637.0, 5631.0, 5400.0, 5506.0, 5292.0, 5497.0, 5629.0, 5549.0, 5717.0, 5410.0, 5312.0, 5327.0, 5413.0, 5515.0, 5635.0, 5659.0, 5560.0, 5575.0, 5508.0, 5569.0, 5385.0, 5344.0, 5326.0, 5428.0, 5439.0, 5363.0, 5356.0, 5695.0, 5618.0, 5702.0, 5455.0, 5620.0, 5473.0, 5366.0, 5265.0, 5676.0, 5467.0, 5311.0, 5687.0, 5582.0, 5543.0, 5570.0, 5671.0, 5613.0, 5375.0, 5481.0, 5426.0, 5509.0 (number of hits: 11)
10	5510	9	1	333	1	5456.0, 5282.0, 5590.0, 5604.0, 5607.0, 5421.0, 5317.0, 5620.0, 5640.0, 5355.0, 5575.0, 5292.0, 5388.0, 5385.0, 5329.0, 5274.0, 5546.0, 5257.0, 5485.0, 5509.0, 5622.0, 5308.0, 5636.0, 5285.0, 5408.0, 5723.0, 5281.0, 5724.0, 5584.0, 5683.0, 5606.0, 5517.0, 5542.0, 5547.0, 5597.0, 5309.0, 5473.0, 5528.0, 5417.0, 5659.0, 5352.0, 5541.0, 5398.0, 5464.0, 5534.0, 5554.0, 5663.0, 5344.0, 5480.0, 5574.0, 5502.0, 5557.0, 5346.0, 5678.0, 5330.0, 5397.0, 5336.0, 5674.0, 5441.0, 5275.0, 5579.0, 5453.0, 5277.0, 5389.0, 5523.0, 5414.0, 5475.0, 5641.0, 5586.0, 5444.0, 5256.0, 5306.0, 5543.0, 5422.0, 5567.0, 5439.0, 5576.0, 5263.0, 5562.0, 5572.0, 5664.0, 5390.0, 5332.0, 5695.0, 5611.0, 5643.0, 5347.0, 5463.0, 5362.0, 5314.0, 5613.0, 5354.0, 5668.0, 5476.0, 5468.0, 5337.0, 5259.0, 5334.0, 5255.0, 5443.0 (number of hits: 5)
11	5510	9	1	333	1	5319.0, 5689.0, 5417.0, 5616.0, 5575.0, 5482.0, 5660.0, 5364.0, 5649.0, 5284.0, 5345.0, 5258.0, 5574.0, 5572.0, 5487.0, 5676.0, 5520.0, 5453.0, 5283.0, 5391.0, 5662.0, 5279.0, 5471.0, 5596.0, 5723.0, 5259.0, 5285.0, 5562.0, 5325.0, 5395.0, 5507.0, 5358.0, 5677.0, 5608.0, 5495.0, 5385.0, 5451.0, 5664.0, 5377.0, 5468.0, 5293.0, 5327.0, 5428.0, 5666.0, 5363.0, 5517.0, 5410.0, 5374.0, 5547.0, 5589.0, 5657.0, 5366.0, 5629.0, 5356.0, 5635.0, 5715.0, 5408.0, 5370.0, 5304.0, 5598.0, 5701.0, 5344.0, 5274.0, 5694.0, 5419.0, 5522.0, 5273.0, 5647.0, 5298.0, 5569.0, 5355.0, 5693.0, 5346.0, 5265.0, 5315.0, 5326.0, 5449.0, 5432.0, 5337.0, 5654.0, 5508.0, 5622.0, 5287.0, 5334.0, 5678.0, 5292.0, 5721.0, 5680.0, 5576.0, 5590.0, 5671.0, 5526.0, 5492.0, 5550.0, 5389.0, 5387.0, 5601.0, 5474.0, 5294.0, 5580.0 (number of hits: 8)
12	5510	9	1	333	1	5547.0, 5429.0, 5362.0, 5306.0, 5546.0, 5493.0, 5696.0, 5685.0, 5508.0, 5446.0, 5271.0, 5514.0, 5251.0, 5674.0, 5338.0, 5371.0, 5612.0, 5527.0, 5495.0, 5275.0,

						5269.0, 5681.0, 5573.0, 5292.0, 5457.0, 5600.0, 5468.0, 5430.0, 5535.0, 5449.0, 5616.0, 5458.0, 5277.0, 5569.0, 5716.0, 5540.0, 5291.0, 5420.0, 5611.0, 5564.0, 5265.0, 5717.0, 5710.0, 5310.0, 5548.0, 5433.0, 5562.0, 5425.0, 5631.0, 5270.0, 5435.0, 5528.0, 5364.0, 5404.0, 5588.0, 5707.0, 5261.0, 5368.0, 5366.0, 5501.0, 5401.0, 5702.0, 5628.0, 5443.0, 5586.0, 5288.0, 5417.0, 5684.0, 5609.0, 5318.0, 5622.0, 5642.0, 5415.0, 5554.0, 5297.0, 5301.0, 5442.0, 5658.0, 5517.0, 5281.0, 5667.0, 5647.0, 5518.0, 5358.0, 5620.0, 5515.0, 5682.0, 5596.0, 5450.0, 5405.0, 5376.0, 5690.0, 5416.0, 5302.0, 5391.0, 5630.0, 5560.0, 5601.0, 5289.0, 5372.0 (number of hits: 10)
13	5510	9	1	333	1	5654.0, 5699.0, 5625.0, 5495.0, 5509.0, 5481.0, 5559.0, 5450.0, 5303.0, 5653.0, 5482.0, 5680.0, 5262.0, 5563.0, 5322.0, 5539.0, 5695.0, 5427.0, 5593.0, 5382.0, 5268.0, 5497.0, 5513.0, 5308.0, 5605.0, 5334.0, 5678.0, 5358.0, 5604.0, 5580.0, 5480.0, 5464.0, 5405.0, 5313.0, 5440.0, 5504.0, 5721.0, 5542.0, 5525.0, 5298.0, 5486.0, 5507.0, 5456.0, 5384.0, 5575.0, 5603.0, 5671.0, 5724.0, 5380.0, 5597.0, 5346.0, 5368.0, 5457.0, 5498.0, 5547.0, 5570.0, 5687.0, 5550.0, 5602.0, 5591.0, 5270.0, 5404.0, 5551.0, 5502.0, 5349.0, 5549.0, 5447.0, 5722.0, 5595.0, 5716.0, 5661.0, 5455.0, 5600.0, 5387.0, 5413.0, 5259.0, 5696.0, 5433.0, 5650.0, 5402.0, 5475.0, 5431.0, 5261.0, 5252.0, 5465.0, 5468.0, 5476.0, 5532.0, 5306.0, 5640.0, 5651.0, 5616.0, 5587.0, 5529.0, 5706.0, 5316.0, 5398.0, 5492.0, 5641.0, 5606.0 (number of hits: 11)
14	5510	9	1	333	1	5660.0, 5421.0, 5366.0, 5513.0, 5723.0, 5445.0, 5271.0, 5533.0, 5393.0, 5334.0, 5374.0, 5487.0, 5422.0, 5617.0, 5286.0, 5580.0, 5547.0, 5619.0, 5588.0, 5408.0, 5254.0, 5325.0, 5280.0, 5684.0, 5291.0, 5570.0, 5412.0, 5495.0, 5474.0, 5453.0, 5287.0, 5707.0, 5524.0, 5435.0, 5454.0, 5701.0, 5539.0, 5444.0, 5364.0, 5498.0, 5436.0, 5439.0, 5538.0, 5284.0, 5260.0, 5501.0, 5505.0, 5508.0, 5266.0, 5395.0, 5304.0, 5457.0, 5690.0, 5460.0, 5368.0, 5574.0, 5576.0, 5523.0, 5514.0, 5589.0, 5652.0, 5379.0, 5600.0, 5717.0, 5688.0, 5668.0, 5622.0, 5465.0, 5305.0, 5312.0, 5700.0, 5300.0, 5510.0, 5267.0, 5526.0, 5571.0, 5543.0, 5358.0, 5410.0, 5666.0, 5496.0, 5603.0, 5540.0, 5316.0, 5385.0, 5251.0, 5643.0, 5699.0, 5590.0, 5313.0, 5537.0, 5559.0, 5644.0, 5712.0, 5551.0, 5263.0, 5515.0, 5604.0, 5272.0, 5563.0 (number of hits: 13)
15	5510	9	1	333	1	5587.0, 5562.0, 5637.0, 5624.0, 5298.0,

						5312.0, 5334.0, 5313.0, 5470.0, 5603.0, 5362.0, 5378.0, 5501.0, 5506.0, 5672.0, 5401.0, 5656.0, 5641.0, 5335.0, 5439.0, 5412.0, 5631.0, 5456.0, 5268.0, 5509.0, 5375.0, 5663.0, 5437.0, 5477.0, 5543.0, 5493.0, 5394.0, 5647.0, 5613.0, 5451.0, 5438.0, 5304.0, 5428.0, 5683.0, 5513.0, 5404.0, 5410.0, 5677.0, 5665.0, 5460.0, 5466.0, 5561.0, 5432.0, 5377.0, 5682.0, 5680.0, 5643.0, 5584.0, 5413.0, 5440.0, 5616.0, 5503.0, 5346.0, 5657.0, 5423.0, 5660.0, 5583.0, 5622.0, 5591.0, 5687.0, 5666.0, 5535.0, 5505.0, 5317.0, 5560.0, 5306.0, 5370.0, 5649.0, 5352.0, 5711.0, 5452.0, 5328.0, 5604.0, 5498.0, 5393.0, 5357.0, 5321.0, 5483.0, 5253.0, 5419.0, 5327.0, 5619.0, 5369.0, 5527.0, 5270.0, 5717.0, 5254.0, 5361.0, 5654.0, 5411.0, 5434.0, 5523.0, 5605.0, 5296.0, 5373.0 (number of hits: 10)
16	5510	9	1	333	1	5366.0, 5716.0, 5418.0, 5597.0, 5339.0, 5337.0, 5551.0, 5303.0, 5712.0, 5632.0, 5351.0, 5392.0, 5527.0, 5698.0, 5463.0, 5494.0, 5453.0, 5465.0, 5425.0, 5272.0, 5283.0, 5622.0, 5709.0, 5608.0, 5691.0, 5367.0, 5371.0, 5476.0, 5458.0, 5522.0, 5601.0, 5466.0, 5471.0, 5291.0, 5408.0, 5440.0, 5273.0, 5254.0, 5450.0, 5547.0, 5296.0, 5697.0, 5580.0, 5407.0, 5504.0, 5555.0, 5295.0, 5443.0, 5585.0, 5427.0, 5497.0, 5569.0, 5299.0, 5654.0, 5409.0, 5429.0, 5656.0, 5579.0, 5572.0, 5606.0, 5507.0, 5705.0, 5437.0, 5318.0, 5519.0, 5623.0, 5333.0, 5360.0, 5262.0, 5692.0, 5304.0, 5459.0, 5664.0, 5701.0, 5394.0, 5605.0, 5300.0, 5436.0, 5457.0, 5271.0, 5539.0, 5559.0, 5501.0, 5279.0, 5354.0, 5424.0, 5642.0, 5704.0, 5582.0, 5314.0, 5641.0, 5552.0, 5490.0, 5609.0, 5615.0, 5563.0, 5528.0, 5534.0, 5414.0, 5618.0 (number of hits: 10)
17	5510	9	1	333	1	5543.0, 5363.0, 5420.0, 5633.0, 5695.0, 5373.0, 5720.0, 5595.0, 5405.0, 5377.0, 5647.0, 5498.0, 5507.0, 5646.0, 5398.0, 5589.0, 5416.0, 5296.0, 5482.0, 5286.0, 5723.0, 5555.0, 5290.0, 5389.0, 5594.0, 5409.0, 5466.0, 5523.0, 5300.0, 5641.0, 5467.0, 5322.0, 5579.0, 5260.0, 5506.0, 5445.0, 5706.0, 5598.0, 5719.0, 5539.0, 5642.0, 5528.0, 5464.0, 5675.0, 5654.0, 5423.0, 5381.0, 5287.0, 5680.0, 5537.0, 5540.0, 5703.0, 5616.0, 5402.0, 5335.0, 5480.0, 5277.0, 5460.0, 5590.0, 5591.0, 5434.0, 5421.0, 5681.0, 5520.0, 5661.0, 5587.0, 5268.0, 5679.0, 5403.0, 5415.0, 5334.0, 5267.0, 5455.0, 5502.0, 5553.0, 5643.0, 5652.0, 5593.0, 5396.0, 5318.0, 5359.0, 5446.0, 5489.0, 5724.0, 5261.0, 5592.0, 5619.0, 5385.0, 5404.0, 5439.0, 5606.0, 5526.0, 5303.0, 5597.0, 5542.0,

						5545.0, 5558.0, 5388.0, 5438.0, 5387.0 (number of hits: 8)
18	5510	9	1	333	1	5314.0, 5531.0, 5406.0, 5501.0, 5326.0, 5684.0, 5343.0, 5353.0, 5705.0, 5556.0, 5345.0, 5404.0, 5291.0, 5266.0, 5527.0, 5307.0, 5517.0, 5473.0, 5668.0, 5259.0, 5280.0, 5389.0, 5365.0, 5709.0, 5653.0, 5452.0, 5595.0, 5583.0, 5713.0, 5464.0, 5269.0, 5503.0, 5357.0, 5672.0, 5354.0, 5575.0, 5333.0, 5596.0, 5267.0, 5364.0, 5342.0, 5299.0, 5336.0, 5419.0, 5688.0, 5671.0, 5302.0, 5476.0, 5385.0, 5559.0, 5643.0, 5656.0, 5554.0, 5587.0, 5707.0, 5630.0, 5316.0, 5310.0, 5317.0, 5654.0, 5514.0, 5519.0, 5663.0, 5416.0, 5458.0, 5250.0, 5498.0, 5339.0, 5256.0, 5697.0, 5598.0, 5444.0, 5673.0, 5448.0, 5715.0, 5398.0, 5599.0, 5532.0, 5470.0, 5381.0, 5661.0, 5323.0, 5417.0, 5480.0, 5548.0, 5620.0, 5455.0, 5524.0, 5701.0, 5292.0, 5718.0, 5704.0, 5500.0, 5449.0, 5278.0, 5530.0, 5712.0, 5723.0, 5403.0, 5669.0 (number of hits: 9)
19	5510	9	1	333	1	5482.0, 5605.0, 5705.0, 5319.0, 5588.0, 5351.0, 5378.0, 5513.0, 5339.0, 5368.0, 5574.0, 5455.0, 5625.0, 5552.0, 5720.0, 5464.0, 5405.0, 5453.0, 5716.0, 5340.0, 5413.0, 5553.0, 5374.0, 5310.0, 5424.0, 5704.0, 5338.0, 5445.0, 5288.0, 5327.0, 5298.0, 5337.0, 5598.0, 5529.0, 5336.0, 5252.0, 5468.0, 5318.0, 5540.0, 5547.0, 5321.0, 5698.0, 5666.0, 5438.0, 5387.0, 5546.0, 5634.0, 5440.0, 5260.0, 5360.0, 5602.0, 5313.0, 5364.0, 5539.0, 5685.0, 5656.0, 5614.0, 5349.0, 5519.0, 5620.0, 5662.0, 5512.0, 5404.0, 5287.0, 5593.0, 5394.0, 5478.0, 5563.0, 5681.0, 5345.0, 5577.0, 5508.0, 5612.0, 5397.0, 5723.0, 5545.0, 5422.0, 5301.0, 5386.0, 5465.0, 5475.0, 5306.0, 5631.0, 5583.0, 5644.0, 5462.0, 5470.0, 5315.0, 5425.0, 5294.0, 5258.0, 5542.0, 5264.0, 5496.0, 5606.0, 5275.0, 5380.0, 5624.0, 5439.0, 5421.0 (number of hits: 6)
20	5510	9	1	333	1	5672.0, 5487.0, 5441.0, 5558.0, 5470.0, 5520.0, 5566.0, 5620.0, 5705.0, 5256.0, 5357.0, 5316.0, 5257.0, 5437.0, 5288.0, 5660.0, 5417.0, 5369.0, 5598.0, 5690.0, 5415.0, 5252.0, 5630.0, 5535.0, 5559.0, 5387.0, 5397.0, 5285.0, 5653.0, 5253.0, 5682.0, 5304.0, 5462.0, 5464.0, 5425.0, 5322.0, 5277.0, 5507.0, 5432.0, 5276.0, 5568.0, 5457.0, 5629.0, 5624.0, 5362.0, 5595.0, 5602.0, 5640.0, 5333.0, 5537.0, 5500.0, 5636.0, 5292.0, 5618.0, 5447.0, 5283.0, 5444.0, 5413.0, 5592.0, 5372.0, 5708.0, 5395.0, 5378.0, 5477.0, 5265.0, 5685.0, 5482.0, 5671.0, 5643.0, 5254.0, 5676.0, 5563.0, 5571.0, 5536.0, 5648.0, 5414.0, 5658.0, 5532.0, 5450.0, 5345.0,

						5677.0, 5560.0, 5280.0, 5517.0, 5473.0, 5582.0, 5379.0, 5478.0, 5510.0, 5271.0, 5419.0, 5701.0, 5471.0, 5518.0, 5318.0, 5343.0, 5669.0, 5564.0, 5363.0, 5373.0 (number of hits: 6)
21	5510	9	1	333	1	5343.0, 5673.0, 5600.0, 5369.0, 5636.0, 5667.0, 5313.0, 5715.0, 5553.0, 5574.0, 5449.0, 5546.0, 5539.0, 5586.0, 5311.0, 5276.0, 5256.0, 5622.0, 5452.0, 5407.0, 5628.0, 5427.0, 5548.0, 5349.0, 5301.0, 5476.0, 5577.0, 5251.0, 5493.0, 5707.0, 5364.0, 5457.0, 5569.0, 5531.0, 5467.0, 5487.0, 5716.0, 5430.0, 5320.0, 5299.0, 5450.0, 5655.0, 5510.0, 5671.0, 5521.0, 5595.0, 5417.0, 5645.0, 5540.0, 5641.0, 5354.0, 5475.0, 5678.0, 5545.0, 5434.0, 5321.0, 5682.0, 5572.0, 5491.0, 5332.0, 5592.0, 5675.0, 5300.0, 5568.0, 5390.0, 5359.0, 5706.0, 5594.0, 5370.0, 5339.0, 5302.0, 5585.0, 5368.0, 5293.0, 5522.0, 5423.0, 5480.0, 5497.0, 5687.0, 5562.0, 5465.0, 5486.0, 5309.0, 5353.0, 5492.0, 5253.0, 5422.0, 5543.0, 5627.0, 5505.0, 5700.0, 5536.0, 5381.0, 5292.0, 5593.0, 5712.0, 5263.0, 5693.0, 5433.0, 5684.0 (number of hits: 8)
22	5510	9	1	333	1	5384.0, 5630.0, 5455.0, 5704.0, 5485.0, 5359.0, 5406.0, 5623.0, 5440.0, 5284.0, 5708.0, 5400.0, 5669.0, 5250.0, 5526.0, 5522.0, 5672.0, 5595.0, 5514.0, 5465.0, 5319.0, 5396.0, 5428.0, 5650.0, 5560.0, 5678.0, 5471.0, 5454.0, 5462.0, 5566.0, 5288.0, 5322.0, 5519.0, 5426.0, 5269.0, 5314.0, 5538.0, 5283.0, 5614.0, 5527.0, 5568.0, 5578.0, 5478.0, 5287.0, 5297.0, 5549.0, 5460.0, 5357.0, 5598.0, 5508.0, 5546.0, 5694.0, 5637.0, 5587.0, 5577.0, 5438.0, 5341.0, 5470.0, 5464.0, 5579.0, 5530.0, 5362.0, 5586.0, 5281.0, 5664.0, 5721.0, 5604.0, 5642.0, 5555.0, 5641.0, 5574.0, 5684.0, 5416.0, 5382.0, 5593.0, 5693.0, 5365.0, 5515.0, 5518.0, 5404.0, 5627.0, 5477.0, 5463.0, 5552.0, 5619.0, 5505.0, 5677.0, 5273.0, 5334.0, 5402.0, 5349.0, 5375.0, 5302.0, 5275.0, 5698.0, 5282.0, 5496.0, 5618.0, 5685.0, 5315.0 (number of hits: 10)
23	5510	9	1	333	1	5403.0, 5354.0, 5512.0, 5544.0, 5301.0, 5491.0, 5477.0, 5416.0, 5418.0, 5263.0, 5716.0, 5294.0, 5278.0, 5367.0, 5625.0, 5349.0, 5305.0, 5666.0, 5402.0, 5675.0, 5687.0, 5593.0, 5336.0, 5710.0, 5404.0, 5501.0, 5603.0, 5306.0, 5484.0, 5476.0, 5423.0, 5276.0, 5574.0, 5451.0, 5569.0, 5511.0, 5269.0, 5430.0, 5357.0, 5273.0, 5678.0, 5271.0, 5489.0, 5586.0, 5676.0, 5714.0, 5446.0, 5392.0, 5394.0, 5463.0, 5251.0, 5264.0, 5325.0, 5259.0, 5374.0, 5310.0, 5540.0, 5660.0, 5692.0, 5461.0, 5428.0, 5289.0, 5541.0, 5275.0, 5413.0

						5701.0, 5465.0, 5665.0, 5277.0, 5383.0, 5469.0, 5597.0, 5562.0, 5718.0, 5442.0, 5504.0, 5602.0, 5382.0, 5580.0, 5554.0, 5482.0, 5347.0, 5434.0, 5449.0, 5552.0, 5258.0, 5348.0, 5651.0, 5256.0, 5713.0, 5385.0, 5553.0, 5646.0, 5644.0, 5456.0, 5626.0, 5422.0, 5606.0, 5420.0, 5584.0 (number of hits: 5)
24	5510	9	1	333	1	5537.0, 5692.0, 5404.0, 5536.0, 5327.0, 5356.0, 5275.0, 5643.0, 5591.0, 5716.0, 5395.0, 5313.0, 5456.0, 5502.0, 5262.0, 5535.0, 5542.0, 5391.0, 5686.0, 5376.0, 5709.0, 5688.0, 5713.0, 5508.0, 5540.0, 5315.0, 5582.0, 5326.0, 5316.0, 5299.0, 5641.0, 5639.0, 5704.0, 5604.0, 5524.0, 5715.0, 5392.0, 5394.0, 5518.0, 5345.0, 5637.0, 5548.0, 5412.0, 5626.0, 5285.0, 5447.0, 5672.0, 5514.0, 5559.0, 5490.0, 5552.0, 5667.0, 5493.0, 5644.0, 5677.0, 5388.0, 5655.0, 5415.0, 5714.0, 5466.0, 5479.0, 5478.0, 5261.0, 5334.0, 5521.0, 5665.0, 5503.0, 5405.0, 5370.0, 5259.0, 5531.0, 5302.0, 5303.0, 5331.0, 5497.0, 5482.0, 5596.0, 5693.0, 5634.0, 5474.0, 5702.0, 5718.0, 5368.0, 5401.0, 5538.0, 5417.0, 5462.0, 5484.0, 5617.0, 5434.0, 5403.0, 5271.0, 5317.0, 5700.0, 5443.0, 5307.0, 5265.0, 5654.0, 5318.0, 5623.0 (number of hits: 10)
25	5510	9	1	333	1	5536.0, 5604.0, 5619.0, 5610.0, 5674.0, 5305.0, 5499.0, 5336.0, 5541.0, 5702.0, 5269.0, 5601.0, 5265.0, 5492.0, 5690.0, 5352.0, 5284.0, 5550.0, 5359.0, 5349.0, 5274.0, 5464.0, 5514.0, 5700.0, 5586.0, 5575.0, 5642.0, 5549.0, 5597.0, 5302.0, 5577.0, 5647.0, 5537.0, 5287.0, 5571.0, 5679.0, 5676.0, 5548.0, 5569.0, 5627.0, 5716.0, 5530.0, 5723.0, 5402.0, 5255.0, 5490.0, 5501.0, 5544.0, 5298.0, 5300.0, 5323.0, 5480.0, 5547.0, 5276.0, 5503.0, 5628.0, 5561.0, 5474.0, 5321.0, 5451.0, 5417.0, 5707.0, 5671.0, 5398.0, 5384.0, 5444.0, 5434.0, 5697.0, 5694.0, 5306.0, 5473.0, 5509.0, 5534.0, 5257.0, 5259.0, 5427.0, 5314.0, 5460.0, 5531.0, 5462.0, 5400.0, 5584.0, 5607.0, 5368.0, 5527.0, 5458.0, 5680.0, 5457.0, 5470.0, 5704.0, 5486.0, 5471.0, 5526.0, 5657.0, 5483.0, 5621.0, 5347.0, 5612.0, 5496.0, 5673.0 (number of hits: 10)
26	5510	9	1	333	1	5652.0, 5327.0, 5611.0, 5326.0, 5409.0, 5588.0, 5358.0, 5380.0, 5695.0, 5656.0, 5688.0, 5374.0, 5386.0, 5321.0, 5310.0, 5323.0, 5663.0, 5314.0, 5375.0, 5623.0, 5505.0, 5400.0, 5603.0, 5594.0, 5490.0, 5519.0, 5511.0, 5290.0, 5474.0, 5481.0, 5632.0, 5675.0, 5277.0, 5438.0, 5574.0, 5279.0, 5642.0, 5610.0, 5357.0, 5482.0, 5439.0, 5592.0, 5604.0, 5605.0, 5607.0, 5382.0, 5597.0, 5470.0, 5381.0, 5509.0,

						5532.0, 5689.0, 5405.0, 5366.0, 5529.0, 5665.0, 5670.0, 5344.0, 5269.0, 5301.0, 5563.0, 5443.0, 5717.0, 5520.0, 5430.0, 5268.0, 5591.0, 5522.0, 5324.0, 5545.0, 5596.0, 5406.0, 5552.0, 5287.0, 5719.0, 5713.0, 5705.0, 5566.0, 5250.0, 5476.0, 5436.0, 5458.0, 5340.0, 5518.0, 5503.0, 5303.0, 5510.0, 5334.0, 5401.0, 5523.0, 5651.0, 5255.0, 5722.0, 5304.0, 5708.0, 5628.0, 5484.0, 5714.0, 5530.0, 5478.0 (number of hits: 12)
27	5510	9	1	333	1	5300.0, 5352.0, 5314.0, 5566.0, 5707.0, 5663.0, 5472.0, 5698.0, 5453.0, 5382.0, 5258.0, 5376.0, 5288.0, 5304.0, 5697.0, 5346.0, 5280.0, 5496.0, 5357.0, 5501.0, 5581.0, 5388.0, 5362.0, 5637.0, 5690.0, 5429.0, 5332.0, 5386.0, 5421.0, 5322.0, 5686.0, 5598.0, 5313.0, 5708.0, 5469.0, 5333.0, 5670.0, 5297.0, 5704.0, 5356.0, 5541.0, 5318.0, 5633.0, 5534.0, 5438.0, 5533.0, 5439.0, 5385.0, 5328.0, 5353.0, 5285.0, 5419.0, 5650.0, 5301.0, 5661.0, 5360.0, 5265.0, 5576.0, 5377.0, 5337.0, 5383.0, 5584.0, 5257.0, 5547.0, 5483.0, 5406.0, 5574.0, 5466.0, 5420.0, 5683.0, 5659.0, 5638.0, 5381.0, 5489.0, 5425.0, 5459.0, 5589.0, 5405.0, 5348.0, 5404.0, 5587.0, 5293.0, 5499.0, 5531.0, 5599.0, 5315.0, 5611.0, 5462.0, 5658.0, 5412.0, 5582.0, 5696.0, 5503.0, 5673.0, 5712.0, 5720.0, 5635.0, 5430.0, 5652.0, 5559.0 (number of hits: 4)
28	5510	9	1	333	1	5419.0, 5380.0, 5308.0, 5589.0, 5333.0, 5681.0, 5522.0, 5503.0, 5583.0, 5564.0, 5647.0, 5418.0, 5618.0, 5377.0, 5561.0, 5601.0, 5511.0, 5332.0, 5617.0, 5256.0, 5257.0, 5585.0, 5660.0, 5286.0, 5407.0, 5500.0, 5514.0, 5358.0, 5452.0, 5382.0, 5338.0, 5524.0, 5441.0, 5492.0, 5479.0, 5502.0, 5722.0, 5275.0, 5347.0, 5505.0, 5582.0, 5305.0, 5703.0, 5450.0, 5263.0, 5357.0, 5328.0, 5388.0, 5515.0, 5309.0, 5508.0, 5548.0, 5294.0, 5596.0, 5521.0, 5302.0, 5717.0, 5598.0, 5518.0, 5482.0, 5652.0, 5720.0, 5483.0, 5260.0, 5391.0, 5315.0, 5558.0, 5460.0, 5603.0, 5567.0, 5672.0, 5623.0, 5293.0, 5472.0, 5671.0, 5342.0, 5447.0, 5715.0, 5264.0, 5400.0, 5280.0, 5629.0, 5692.0, 5399.0, 5474.0, 5604.0, 5606.0, 5422.0, 5364.0, 5442.0, 5616.0, 5262.0, 5330.0, 5632.0, 5352.0, 5394.0, 5344.0, 5673.0, 5707.0, 5709.0 (number of hits: 13)
29	5510	9	1	333	1	5254.0, 5702.0, 5447.0, 5719.0, 5405.0, 5358.0, 5476.0, 5674.0, 5597.0, 5623.0, 5547.0, 5354.0, 5518.0, 5555.0, 5582.0, 5491.0, 5689.0, 5533.0, 5355.0, 5526.0, 5583.0, 5699.0, 5420.0, 5516.0, 5590.0, 5311.0, 5464.0, 5624.0, 5365.0, 5298.0, 5342.0, 5694.0, 5626.0, 5325.0, 5381.0,

						5363.0, 5324.0, 5617.0, 5317.0, 5416.0, 5441.0, 5638.0, 5394.0, 5475.0, 5362.0, 5489.0, 5480.0, 5308.0, 5627.0, 5322.0, 5348.0, 5698.0, 5548.0, 5714.0, 5404.0, 5402.0, 5315.0, 5710.0, 5343.0, 5359.0, 5569.0, 5669.0, 5455.0, 5295.0, 5646.0, 5709.0, 5313.0, 5546.0, 5534.0, 5512.0, 5571.0, 5677.0, 5285.0, 5281.0, 5697.0, 5568.0, 5485.0, 5572.0, 5334.0, 5635.0, 5711.0, 5672.0, 5586.0, 5307.0, 5607.0, 5433.0, 5614.0, 5678.0, 5497.0, 5550.0, 5408.0, 5349.0, 5257.0, 5448.0, 5641.0, 5608.0, 5378.0, 5495.0, 5399.0, 5330.0 (number of hits: 7)
30	5510	9	1	333	1	5313.0, 5680.0, 5400.0, 5659.0, 5592.0, 5550.0, 5405.0, 5518.0, 5586.0, 5574.0, 5711.0, 5528.0, 5454.0, 5498.0, 5441.0, 5337.0, 5452.0, 5566.0, 5335.0, 5497.0, 5655.0, 5365.0, 5326.0, 5543.0, 5499.0, 5544.0, 5656.0, 5383.0, 5445.0, 5513.0, 5325.0, 5588.0, 5312.0, 5562.0, 5621.0, 5421.0, 5477.0, 5611.0, 5323.0, 5412.0, 5446.0, 5712.0, 5472.0, 5599.0, 5688.0, 5692.0, 5393.0, 5432.0, 5691.0, 5710.0, 5443.0, 5681.0, 5620.0, 5338.0, 5318.0, 5552.0, 5455.0, 5418.0, 5598.0, 5483.0, 5479.0, 5589.0, 5630.0, 5567.0, 5682.0, 5462.0, 5475.0, 5287.0, 5665.0, 5569.0, 5679.0, 5493.0, 5526.0, 5721.0, 5609.0, 5500.0, 5386.0, 5519.0, 5367.0, 5629.0, 5494.0, 5646.0, 5449.0, 5708.0, 5579.0, 5460.0, 5444.0, 5607.0, 5582.0, 5515.0, 5399.0, 5456.0, 5344.0, 5395.0, 5504.0, 5635.0, 5404.0, 5311.0, 5705.0, 5496.0 (number of hits: 14)

5530 MHz, 80 MHz Bandwidth**Table-1 Radar Type 1A/1B Statistical Performance**

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5530	67	1	798	1
2	5530	74	1	718	1
3	5530	70	1	758	1
4	5530	63	1	838	1
5	5530	83	1	638	1
6	5491	68	1	778	1
7	5491	92	1	578	1
8	5491	89	1	598	1
9	5491	78	1	678	1
10	5491	65	1	818	1
11	5569	81	1	658	1
12	5569	95	1	558	1
13	5569	76	1	698	1
14	5569	86	1	618	1
15	5569	99	1	538	1
16	5530	78	1	680	1
17	5530	18	1	3032	1
18	5530	41	1	1300	1
19	5530	81	1	656	1
20	5530	18	1	2985	1
21	5491	30	1	1764	1
22	5491	19	1	2788	1
23	5491	43	1	1246	1
24	5491	18	1	3013	1
25	5491	61	1	875	1
26	5569	65	1	813	1
27	5569	25	1	2121	1
28	5569	77	1	687	1
29	5569	23	1	2353	1
30	5569	20	1	2697	1
Detection Percentage: 100 % (>60%)					

Table-2 Radar Type 2 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5530	25	4.2	178	1
2	5530	24	2.7	202	1
3	5530	26	3.6	193	1
4	5530	26	1.9	183	1
5	5530	29	3.6	163	1
6	5530	28	4.2	204	0
7	5530	24	3.4	161	1
8	5530	28	1.3	205	1
9	5530	24	3.9	186	1
10	5530	29	2.3	157	1
11	5491	24	1	166	1
12	5491	25	2.6	224	1
13	5491	28	1.8	211	1
14	5491	28	3	163	1
15	5491	23	1.3	162	1
16	5491	25	2.2	186	1
17	5491	27	1.3	152	1
18	5491	23	4.3	207	1
19	5491	23	2.4	188	1
20	5491	25	1.1	151	1
21	5569	26	4.8	161	1
22	5569	28	1.5	204	1
23	5569	25	3.5	222	1
24	5569	24	5	216	1
25	5569	26	1.8	155	1
26	5569	27	4.8	168	1
27	5569	25	3.4	180	0
28	5569	29	4.2	203	1
29	5569	25	2.9	205	1
30	5569	28	3.3	216	1
Detection Percentage: 93.3 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5530	18	7.8	472	1
2	5530	16	7.6	209	1
3	5530	18	6	216	1
4	5530	18	7.2	344	1
5	5530	16	7.8	298	1
6	5530	17	9.3	331	0
7	5530	18	6.9	294	1
8	5530	16	9.1	291	1
9	5530	16	9	298	1
10	5530	18	9.6	455	1
11	5491	16	8.5	231	1
12	5491	18	7.9	322	1
13	5491	16	8.2	349	1
14	5491	17	7.4	232	1
15	5491	16	8.9	435	1
16	5491	17	7.4	250	1
17	5491	18	9.9	278	1
18	5491	18	6.6	429	1
19	5491	17	7.2	200	1
20	5491	16	6.8	446	1
21	5569	18	8.3	480	1
22	5569	18	6.1	359	1
23	5569	18	6.3	273	1
24	5569	17	8.2	296	1
25	5569	16	7.1	352	1
26	5569	17	6.4	248	1
27	5569	18	7.4	339	1
28	5569	16	8.6	248	1
29	5569	17	7	274	1
30	5569	18	9.9	417	1
Detection Percentage: 96.7 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5530	15	11.8	369	1
2	5530	13	18.9	253	1
3	5530	15	17.8	349	1
4	5530	16	15.9	254	1
5	5530	13	17.4	445	0
6	5530	15	14.6	489	1
7	5530	12	13.6	473	1
8	5530	13	14.2	464	1
9	5530	13	13.1	489	1
10	5530	14	15.9	444	1
11	5491	15	13.9	498	1
12	5491	15	12.7	347	0
13	5491	15	18.5	230	1
14	5491	12	11.2	392	1
15	5491	12	17.6	303	1
16	5491	13	17.6	253	1
17	5491	13	18.4	314	1
18	5491	13	13.6	456	0
19	5491	16	12.8	392	1
20	5491	13	18.6	222	1
21	5569	13	11.7	297	1
22	5569	16	16.3	408	1
23	5569	16	13.4	423	1
24	5569	12	19.5	365	1
25	5569	16	13.3	398	1
26	5569	15	14.2	267	0
27	5569	15	14.4	348	1
28	5569	14	16.2	356	1
29	5569	15	15	489	1
30	5569	12	12.5	424	1
Detection Percentage: 86.7% (>60%)					

Table-5 Radar Type 5 Statistical Performance

Trial #	Fc (MHz)	Detection (1:yes; 0:no)
1	5530	1
2	5530	1
3	5530	1
4	5530	1
5	5530	1
6	5530	1
7	5530	1
8	5530	1
9	5530	1
10	5530	1
11	5496.4	1
12	5494.4	1
13	5498	1
14	5494.4	1
15	5499.6	1
16	5496	1
17	5499.2	1
18	5498.8	1
19	5499.6	1
20	5495.6	1
21	5565.6	1
22	5563.6	1
23	5566.8	1
24	5568	1
25	5565.2	1
26	5565.2	1
27	5566.8	1
28	5563.6	1
29	5564.8	1
30	5564	1
Detection Percentage: 100 % (>80%)		

Bin5 Statistics 1

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	1	5	66.3	-	-	0.281404	1
1	2	5	98.7	1240	-	1.362539	
2	3	5	77.3	1178	1053	1.91625	
3	2	5	77.6	1833	-	2.802341	
4	3	5	77.5	1901	1944	3.180638	
5	2	5	73.2	1483	-	3.915869	
6	2	5	66.9	1277	-	5.153819	
7	1	5	70.6	-	-	5.518647	
8	3	5	62.8	1666	1598	6.566705	
9	3	5	81.4	1278	1404	6.994332	
10	2	5	67.2	1666	-	8.224357	
11	3	5	79.9	1299	1399	8.97613	
12	2	5	94.1	1006	-	9.670858	
13	2	5	64.3	1393	-	9.980478	
14	3	5	85	1296	1130	11.231671	
15	1	5	88.7	-	-	11.425905	

Bin5 Statistics 2

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	1	13	93.7	-	-	0.147336	1
1	1	13	92.3	-	-	1.174348	
2	1	13	53.2	-	-	1.923962	
3	2	13	52	1100	-	2.527452	
4	2	13	59	1904	-	2.860845	
5	2	13	61.1	1551	-	3.584077	
6	3	13	61.7	1636	1301	4.577638	
7	1	13	92.9	-	-	5.188354	
8	2	13	86.5	1335	-	5.897059	
9	2	13	60.3	1490	-	6.708784	
10	3	13	89.3	1230	1265	7.734656	
11	1	13	94.9	-	-	8.266247	
12	3	13	73.1	1237	1123	8.566702	
13	2	13	85.4	1353	-	9.7725	
14	2	13	69.7	1196	-	10.386539	
15	1	13	71.8	-	-	11.163854	
16	1	13	97.7	-	-	11.373912	

Bin5 Statistics 3

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	2	16	54	1402	-	0.109476	1
1	1	16	65.5	-	-	0.809939	
2	3	16	68.4	1544	1992	2.157005	
3	3	16	60.7	1473	1811	3.016576	
4	2	16	77.9	1306	-	3.352799	
5	2	16	73.6	1913	-	4.392085	
6	3	16	58.8	1830	1278	5.131559	
7	2	16	85.2	1676	-	6.070712	
8	3	16	77.4	1532	1528	7.14207	
9	2	16	67.6	1328	-	7.615148	
10	1	16	92.9	-	-	8.174987	
11	2	16	99	1870	-	8.946133	
12	1	16	68.3	-	-	9.761166	
13	3	16	72.1	1602	1926	10.414335	
14	3	16	89	1094	1688	11.392992	

Bin5 Statistics 4

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	10	82	1687	1262	0.374365	1
1	1	10	79.5	-	-	1.108819	
2	3	10	61.9	1588	1668	2.980457	
3	2	10	86.4	1487	-	3.333663	
4	2	10	88.9	1573	-	4.806272	
5	3	10	98.2	1076	1108	5.734381	
6	2	10	59.6	1292	-	6.944596	
7	2	10	91.5	1806	-	7.367758	
8	2	10	85.6	1606	-	8.674791	
9	2	10	51.2	1234	-	9.448347	
10	2	10	98.4	1068	-	10.710555	
11	2	10	76.9	1842	-	11.132669	

Bin5 Statistics 5

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	1	7	61.5	-	-	0.566059	1
1	1	7	78.8	-	-	1.169732	
2	1	7	74	-	-	1.605041	
3	2	7	82	1621	-	1.93626	
4	1	7	55.4	-	-	2.835097	
5	3	7	69.8	1618	1853	3.393372	
6	2	7	95.2	1414	-	3.944651	
7	1	7	56.6	-	-	4.498766	
8	1	7	79	-	-	4.98006	
9	3	7	51.9	1609	1105	5.835324	
10	1	7	58.4	-	-	6.391178	
11	3	7	61.6	1248	1356	7.070659	
12	2	7	57	1840	-	7.689273	
13	1	7	65.7	-	-	8.16649	
14	3	7	98.1	1651	1999	8.659848	
15	2	7	59.1	1390	-	9.474639	
16	2	7	55.4	1632	-	9.773803	
17	1	7	54.6	-	-	10.608045	
18	2	7	78.9	1828	-	11.199648	
19	1	7	97	-	-	11.541036	

Bin5 Statistics 6

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	2	6	92.1	1166	-	0.139501	1
1	1	6	76.8	-	-	1.199034	
2	3	6	53.9	1108	1817	2.068961	
3	1	6	91.3	-	-	3.669722	
4	2	6	81.9	1109	-	4.32351	
5	1	6	50.7	-	-	4.704481	
6	2	6	98.3	1853	-	6.22107	
7	3	6	85.9	1306	1797	6.868514	
8	1	6	97.7	-	-	7.684076	
9	3	6	76.4	1782	1109	9.110881	
10	2	6	75.1	1838	-	9.804631	
11	3	6	63	1972	1072	10.924056	
12	3	6	71.7	1791	1906	11.258371	

Bin5 Statistics 7

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	1	12	68.6	-	-	0.764614	1
1	2	12	96.3	1995	-	0.982918	
2	2	12	90.4	1608	-	1.949564	
3	3	12	93.1	1749	1311	3.191207	
4	3	12	79.7	1158	1638	3.626904	
5	2	12	65	1764	-	4.093899	
6	3	12	77.6	1490	1194	5.553181	
7	2	12	65.1	1551	-	5.939553	
8	2	12	98.4	1276	-	6.513161	
9	2	12	99.1	1879	-	7.636278	
10	3	12	51.1	1470	1581	8.253475	
11	2	12	53.7	1389	-	9.585725	
12	2	12	54.9	1574	-	10.251385	
13	1	12	92	-	-	11.003353	
14	1	12	66.8	-	-	11.462905	

Bin5 Statistics 8

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	7	53.9	1485	1452	0.837669	1
1	3	7	62.2	1885	1186	1.925512	
2	3	7	71.8	1116	1319	2.462024	
3	2	7	94.3	1632	-	4.116011	
4	3	7	55	1434	1343	5.86097	
5	2	7	84.9	1418	-	6.131443	
6	2	7	90.9	1754	-	7.471425	
7	3	7	55.1	1507	1597	8.856904	
8	1	7	52.1	-	-	10.110277	
9	1	7	54.9	-	-	11.830665	

Bin5 Statistics 9

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	2	11	77.9	1921	-	0.650996	1
1	3	11	84.8	1659	1016	1.665392	
2	3	11	93.3	1579	1808	1.904321	
3	1	11	74.7	-	-	3.381867	
4	2	11	88.9	1604	-	4.03451	
5	1	11	87.5	-	-	5.067784	
6	2	11	89.4	1058	-	5.73757	
7	2	11	66.2	1913	-	6.811882	
8	2	11	53.1	1234	-	7.635139	
9	3	11	87.5	1564	1603	8.031565	
10	1	11	81.2	-	-	8.948488	
11	2	11	70.3	1389	-	10.194544	
12	2	11	90.8	1308	-	10.749013	
13	2	11	53.4	1934	-	11.239856	

Bin5 Statistics 10

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	1	6	72.9	-	-	0.623142	1
1	3	6	92.8	1852	1850	1.252631	
2	2	6	79.8	1101	-	2.806734	
3	2	6	96.6	1903	-	3.786001	
4	1	6	64	-	-	4.052809	
5	2	6	63.3	1011	-	5.349905	
6	2	6	79	1479	-	6.053029	
7	2	6	55.6	1652	-	7.603308	
8	1	6	87.2	-	-	8.261583	
9	2	6	52.2	1595	-	9.85826	
10	2	6	93.1	1439	-	10.59398	
11	2	6	84.3	1895	-	11.230929	

Bin5 Statistics 11

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	2	11	86	1324	-	0.151009	1
1	3	11	73.1	1917	1705	1.553344	
2	2	11	87.6	1183	-	2.206966	
3	2	11	67.1	1762	-	2.678449	
4	2	11	67.1	1079	-	3.531929	
5	1	11	76.1	-	-	4.034211	
6	2	11	100	1073	-	5.087084	
7	2	11	60.6	1427	-	6.337818	
8	2	11	84.9	1253	-	6.598403	
9	1	11	70.6	-	-	7.468538	
10	2	11	80.7	1505	-	8.594256	
11	3	11	70.4	1375	1670	9.227308	
12	3	11	81.8	1423	1437	10.192118	
13	1	11	78.4	-	-	10.616411	
14	3	11	62.7	1767	1544	11.361337	

Bin5 Statistics 12

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	2	6	50.6	1582	-	0.084417	1
1	2	6	82.6	1923	-	1.787486	
2	1	6	94	-	-	2.300386	
3	2	6	51.4	1571	-	3.637603	
4	1	6	93.6	-	-	4.04974	
5	2	6	55.8	1884	-	4.777965	
6	2	6	60.1	1577	-	6.200966	
7	3	6	90.2	1270	1682	6.88519	
8	3	6	58	1117	1489	7.940803	
9	3	6	52	1291	1737	8.342876	
10	2	6	98.6	1665	-	9.520418	
11	2	6	96	1540	-	10.260418	
12	2	6	93.2	1781	-	11.42337	

Bin5 Statistics 13

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	2	15	97.8	1788	-	0.095384	1
1	1	15	58.8	-	-	0.994991	
2	1	15	82.6	-	-	1.573474	
3	1	15	53	-	-	2.626915	
4	2	15	79.9	1333	-	3.277651	
5	2	15	65.7	1399	-	4.166752	
6	2	15	71.7	1921	-	4.740938	
7	3	15	96.9	1337	1504	5.369306	
8	2	15	69.4	1755	-	5.717019	
9	3	15	86.1	1989	1650	6.552314	
10	2	15	55.7	1703	-	7.397964	
11	2	15	63.6	1562	-	7.878999	
12	1	15	74	-	-	8.977967	
13	1	15	61.3	-	-	9.733666	
14	1	15	68.5	-	-	10.058221	
15	1	15	59.7	-	-	11.00127	
16	2	15	64.1	1161	-	11.556287	

Bin5 Statistics 14

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	1	6	74.4	-	-	0.073535	1
1	1	6	68.9	-	-	1.128611	
2	2	6	87.8	1936	-	1.933542	
3	2	6	65.2	1540	-	2.505985	
4	3	6	68.2	1459	1657	2.824105	
5	3	6	91.5	1949	1373	3.679642	
6	1	6	57.9	-	-	4.294357	
7	2	6	83.8	1017	-	5.368943	
8	1	6	80.6	-	-	6.077554	
9	2	6	52.4	1312	-	7.044089	
10	2	6	95.1	1472	-	7.062134	
11	2	6	56.8	1351	-	8.343206	
12	2	6	77.1	1622	-	8.58822	
13	2	6	80.6	1142	-	9.459124	
14	2	6	79.5	1389	-	9.987338	
15	2	6	71.4	1646	-	10.734081	
16	3	6	93.6	1902	1707	11.495749	

Bin5 Statistics 15

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	19	80.1	1503	1370	0.582745	1
1	2	19	73.6	1868	-	1.475172	
2	2	19	60.6	1877	-	2.188688	
3	2	19	52.3	1994	-	3.69009	
4	2	19	65	1221	-	4.639152	
5	3	19	54.6	1564	1814	5.811304	
6	3	19	89.7	1582	1721	6.802059	
7	3	19	59.3	1656	1125	7.773036	
8	2	19	62.7	1659	-	8.647359	
9	2	19	96.6	1650	-	9.077288	
10	2	19	86.7	1918	-	10.180211	
11	2	19	71.5	1182	-	11.064537	

Bin5 Statistics 16

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	2	10	62.7	1079	-	0.346312	1
1	2	10	85.2	1080	-	0.749633	
2	1	10	89.9	-	-	1.711458	
3	1	10	99.7	-	-	2.505796	
4	1	10	85.7	-	-	3.433092	
5	3	10	58.6	1661	1683	3.74298	
6	2	10	66.1	1907	-	4.684386	
7	3	10	59.5	1340	1742	5.129952	
8	2	10	87	1791	-	6.299322	
9	2	10	98	1086	-	7.037664	
10	2	10	57.2	1154	-	7.464433	
11	1	10	69.2	-	-	7.868083	
12	3	10	95.7	1555	1633	8.806501	
13	2	10	68.5	1084	-	9.864009	
14	2	10	99.7	1621	-	9.904063	
15	1	10	91.6	-	-	10.953829	
16	2	10	88.3	1072	-	11.689199	

Bin5 Statistics 17

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	2	18	64.6	1510	-	0.328495	1
1	2	18	69.1	1373	-	0.679598	
2	3	18	69.7	1879	1191	1.632312	
3	1	18	76.9	-	-	2.151114	
4	2	18	95.7	1636	-	3.026269	
5	2	18	90.7	1852	-	3.398376	
6	2	18	62.5	1848	-	3.849232	
7	2	18	87	1540	-	4.505654	
8	2	18	97.8	1400	-	5.628787	
9	2	18	70	1423	-	5.907014	
10	3	18	52	1701	1527	6.647111	
11	3	18	59.3	1040	1434	7.324581	
12	2	18	52.4	1951	-	7.675496	
13	2	18	56.1	1825	-	8.236431	
14	2	18	96.4	1750	-	9.001236	
15	2	18	96.7	1587	-	10.056392	
16	1	18	97.4	-	-	10.322506	
17	3	18	77.5	1909	1261	10.830605	
18	1	18	76.4	-	-	11.50673	

Bin5 Statistics 18

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	62.5	1660	1639	1.387665	1
1	1	17	56.5	-	-	2.195042	
2	3	17	54	1809	1799	3.586779	
3	3	17	91.2	1958	1211	4.965981	
4	2	17	77	1807	-	7.2665	
5	2	17	62.6	1418	-	8.938052	
6	2	17	76.4	1579	-	9.558472	
7	2	17	63.2	1867	-	11.501992	

Bin5 Statistics 19

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	19	84.8	1661	1337	0.558827	1
1	1	19	69.8	-	-	1.502509	
2	1	19	51.4	-	-	2.828535	
3	1	19	77.9	-	-	4.270235	
4	2	19	60.2	1197	-	4.998727	
5	3	19	96.7	1602	1598	5.563655	
6	2	19	68.3	1090	-	6.726844	
7	2	19	97.5	1623	-	8.551257	
8	2	19	58.9	1298	-	9.165623	
9	2	19	68.4	1434	-	10.667838	
10	1	19	53.5	-	-	11.918479	

Bin5 Statistics 20

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	2	9	98	1752	-	0.350254	1
1	2	9	78.5	1572	-	1.201154	
2	2	9	64.2	1257	-	2.358713	
3	2	9	67.4	1511	-	2.93562	
4	3	9	82	1531	1174	3.532051	
5	3	9	52	1698	1612	4.479614	
6	2	9	73.1	1050	-	5.894099	
7	1	9	79.4	-	-	6.696334	
8	1	9	62.6	-	-	7.623584	
9	1	9	73.4	-	-	7.770051	
10	2	9	55.9	1314	-	9.063461	
11	2	9	68	1439	-	9.630618	
12	3	9	91	1389	1488	10.95224	
13	3	9	81.2	1631	1427	11.259579	

Bin5 Statistics 21

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	11	58.7	1758	1778	0.111203	1
1	1	11	73.4	-	-	1.700409	
2	2	11	66.1	1464	-	3.050429	
3	1	11	72.5	-	-	3.607416	
4	1	11	57.8	-	-	5.153246	
5	2	11	56.7	1061	-	5.614734	
6	2	11	63.1	1747	-	7.386559	
7	3	11	95.2	1653	1544	7.795067	
8	2	11	98.6	1871	-	8.862734	
9	1	11	83.9	-	-	10.701841	
10	2	11	75.2	1847	-	11.076909	

Bin5 Statistics 22

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	2	16	92.9	1534	-	0.193324	1
1	3	16	91.6	1258	1427	1.095335	
2	3	16	59.8	1940	1708	1.57817	
3	1	16	95.3	-	-	2.401877	
4	2	16	67.6	1386	-	2.795917	
5	1	16	68.7	-	-	3.996082	
6	2	16	72.2	1569	-	4.022132	
7	3	16	96.8	1306	1545	5.134829	
8	2	16	79.2	1554	-	5.98176	
9	3	16	97.7	1811	1049	6.211081	
10	1	16	94	-	-	6.674962	
11	1	16	89.3	-	-	7.902879	
12	3	16	54.2	1143	1480	8.623216	
13	1	16	88.4	-	-	8.755409	
14	3	16	52.4	1486	1419	9.863594	
15	2	16	62.6	1566	-	10.377262	
16	2	16	72.9	1513	-	10.972015	
17	3	16	83.6	1764	1811	11.467899	

Bin5 Statistics 23

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	8	99.8	1228	1743	0.335021	1
1	3	8	58.9	1622	1671	1.566954	
2	1	8	59.2	-	-	3.109283	
3	3	8	89.9	1823	1150	4.153665	
4	3	8	96.5	1083	1588	5.203754	
5	1	8	94.9	-	-	6.462279	
6	3	8	75	1765	1198	7.021717	
7	2	8	76.8	1995	-	7.752182	
8	1	8	64.7	-	-	9.245897	
9	3	8	61	1291	1121	10.010964	
10	1	8	73.1	-	-	11.551451	

Bin5 Statistics 24

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	2	5	94.4	1412	-	0.184622	1
1	3	5	73.5	1246	1530	1.020931	
2	3	5	53.4	1001	1130	2.082084	
3	2	5	69.8	1262	-	2.616977	
4	2	5	91.8	1088	-	3.440649	
5	3	5	85	1087	1959	4.541802	
6	1	5	88	-	-	5.166927	
7	2	5	78.5	1236	-	6.762839	
8	1	5	70.3	-	-	6.873891	
9	2	5	73.2	1229	-	8.466326	
10	1	5	50.4	-	-	8.732651	
11	2	5	67.9	1094	-	10.189675	
12	3	5	77.4	1458	1664	10.597074	
13	1	5	69.2	-	-	11.230651	

Bin5 Statistics 25

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	2	12	85.4	1871	-	0.432765	1
1	1	12	92.9	-	-	1.075558	
2	1	12	83.8	-	-	1.641984	
3	2	12	89.6	1068	-	2.899947	
4	1	12	51.7	-	-	3.96088	
5	2	12	88.5	1960	-	4.322789	
6	2	12	59.4	1405	-	5.127603	
7	2	12	89.9	1261	-	5.692509	
8	2	12	63.5	1616	-	6.936319	
9	3	12	87.6	1064	1165	7.968305	
10	2	12	91.2	1940	-	8.571898	
11	1	12	65.7	-	-	9.452575	
12	2	12	80.4	1847	-	10.248945	
13	2	12	91.4	1408	-	10.64424	
14	1	12	82.6	-	-	11.282649	

Bin5 Statistics 26

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	12	62.1	1181	1385	0.219318	1
1	2	12	95.3	1662	-	0.802546	
2	2	12	82.7	1604	-	1.726228	
3	2	12	72.8	1097	-	2.616176	
4	2	12	66.5	1604	-	3.293	
5	2	12	72.7	1179	-	4.126149	
6	2	12	52.3	1055	-	4.324584	
7	3	12	76.5	1058	1624	5.587827	
8	1	12	66.8	-	-	5.916116	
9	3	12	99.2	1477	1314	6.53006	
10	3	12	78.4	1600	1380	7.427698	
11	3	12	67	1638	1726	7.820117	
12	2	12	50.7	1267	-	8.785159	
13	1	12	82.2	-	-	9.420726	
14	3	12	60.3	1279	1853	10.070867	
15	1	12	51.1	-	-	11.216091	
16	2	12	80.5	1226	-	11.881871	

Bin5 Statistics 27

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	1	8	63.5	-	-	0.561754	1
1	2	8	62	1650	-	0.760796	
2	3	8	63.9	1131	1152	1.819783	
3	1	8	53.5	-	-	2.085702	
4	2	8	84.7	1110	-	2.643787	
5	2	8	58.7	1818	-	3.754598	
6	3	8	84.9	1626	1315	4.338353	
7	1	8	75	-	-	4.451488	
8	1	8	57	-	-	5.395951	
9	3	8	85.1	1006	1997	6.221278	
10	2	8	75.7	1956	-	6.800792	
11	2	8	62.3	1258	-	7.398046	
12	3	8	69.4	1921	1616	7.874926	
13	3	8	58.2	1954	1537	8.627666	
14	2	8	91.6	1990	-	9.007559	
15	3	8	66.5	1559	1974	9.490699	
16	2	8	66.8	1619	-	10.234192	
17	2	8	87.4	1528	-	11.080488	
18	2	8	75.1	1744	-	11.532179	

Bin5 Statistics 28

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	1	16	69.9	-	-	0.349037	1
1	2	16	74.9	1072	-	0.987776	
2	3	16	60.5	1689	1666	2.30249	
3	2	16	98.9	1149	-	3.255797	
4	1	16	73.4	-	-	3.445029	
5	2	16	52.5	1138	-	4.398529	
6	1	16	54.8	-	-	5.771275	
7	2	16	77.6	1566	-	6.129399	
8	1	16	72.3	-	-	6.994375	
9	1	16	82.5	-	-	8.212658	
10	2	16	77.2	1936	-	8.591798	
11	1	16	60.7	-	-	10.000238	
12	2	16	98.6	1213	-	10.697759	
13	1	16	97.2	-	-	11.26955	

Bin5 Statistics 29

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	13	71.8	1214	1096	0.771308	1
1	2	13	67.1	1172	-	1.904135	
2	2	13	78.1	1707	-	2.901349	
3	2	13	78.6	1907	-	3.966056	
4	2	13	54.4	1648	-	5.408155	
5	3	13	75.6	1122	1793	6.778064	
6	2	13	67	1350	-	8.041436	
7	1	13	87.7	-	-	8.414731	
8	2	13	94.8	1088	-	10.04653	
9	2	13	79.4	1570	-	11.426098	

Bin5 Statistics 30

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	1	15	70.7	-	-	0.550364	1
1	2	15	87.3	1696	-	1.019927	
2	2	15	93.4	1589	-	1.796514	
3	2	15	63.7	1931	-	2.484611	
4	2	15	78	1224	-	3.225578	
5	2	15	87.5	1947	-	3.542753	
6	1	15	98.6	-	-	4.629171	
7	2	15	69.2	1566	-	5.380823	
8	3	15	67.1	1240	1838	5.919667	
9	2	15	50.2	1189	-	6.360134	
10	3	15	54.9	1662	1051	7.716573	
11	2	15	82.7	1219	-	7.855828	
12	2	15	63.8	1984	-	8.762421	
13	2	15	67.3	1098	-	9.40796	
14	2	15	91.9	1776	-	10.323066	
15	3	15	78.1	1529	1837	10.804979	
16	2	15	51.4	1329	-	11.911503	

Table-6 Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)	Hopping Sequence
1	5530	9	1	333	1	5657.0, 5625.0, 5587.0, 5706.0, 5576.0, 5265.0, 5585.0, 5530.0, 5663.0, 5702.0, 5487.0, 5699.0, 5676.0, 5314.0, 5302.0, 5688.0, 5370.0, 5691.0, 5523.0, 5556.0, 5501.0, 5429.0, 5267.0, 5707.0, 5397.0, 5561.0, 5603.0, 5604.0, 5290.0, 5367.0, 5550.0, 5697.0, 5260.0, 5412.0, 5593.0, 5416.0, 5272.0, 5283.0, 5363.0, 5493.0, 5310.0, 5563.0, 5488.0, 5499.0, 5342.0, 5661.0, 5528.0, 5423.0, 5424.0, 5654.0, 5364.0, 5446.0, 5574.0, 5452.0, 5694.0, 5375.0, 5379.0, 5527.0, 5252.0, 5357.0, 5627.0, 5475.0, 5442.0, 5718.0, 5559.0, 5345.0, 5592.0, 5447.0, 5335.0, 5353.0, 5522.0, 5509.0, 5507.0, 5498.0, 5454.0, 5489.0, 5457.0, 5393.0, 5568.0, 5401.0, 5334.0, 5525.0, 5721.0, 5380.0, 5329.0, 5643.0, 5259.0, 5542.0, 5560.0, 5422.0, 5513.0, 5650.0, 5407.0, 5606.0, 5399.0, 5324.0, 5583.0, 5666.0, 5300.0, 5472.0 (number of hits: 21)
2	5530	9	1	333	1	5350.0, 5431.0, 5704.0, 5668.0, 5447.0, 5605.0, 5619.0, 5390.0, 5566.0, 5453.0, 5591.0, 5572.0, 5588.0, 5583.0, 5273.0, 5405.0, 5513.0, 5720.0, 5295.0, 5374.0, 5283.0, 5379.0, 5482.0, 5675.0, 5388.0, 5309.0, 5560.0, 5480.0, 5421.0, 5630.0, 5541.0, 5384.0, 5461.0, 5356.0, 5696.0, 5412.0, 5335.0, 5518.0, 5269.0, 5351.0, 5253.0, 5563.0, 5484.0, 5376.0, 5558.0, 5441.0, 5632.0, 5658.0, 5464.0, 5495.0, 5627.0, 5403.0, 5472.0, 5625.0, 5424.0, 5487.0, 5708.0, 5433.0, 5476.0, 5313.0, 5397.0, 5682.0, 5349.0, 5587.0, 5609.0, 5666.0, 5681.0, 5275.0, 5691.0, 5330.0, 5676.0, 5352.0, 5481.0, 5312.0, 5716.0, 5579.0, 5670.0, 5282.0, 5432.0, 5577.0, 5407.0, 5648.0, 5489.0, 5425.0, 5547.0, 5493.0, 5338.0, 5310.0, 5251.0, 5263.0, 5646.0, 5602.0, 5261.0, 5589.0, 5274.0, 5304.0, 5544.0, 5500.0, 5377.0, 5549.0 (number of hits: 13)
3	5530	9	1	333	1	5660.0, 5374.0, 5535.0, 5403.0, 5500.0, 5528.0, 5340.0, 5265.0, 5269.0, 5626.0, 5354.0, 5608.0, 5509.0, 5266.0, 5550.0, 5497.0, 5469.0, 5653.0, 5499.0, 5452.0, 5607.0, 5508.0, 5643.0, 5371.0, 5526.0, 5712.0, 5467.0, 5402.0, 5664.0, 5637.0, 5479.0, 5478.0, 5290.0, 5613.0, 5583.0, 5512.0, 5399.0, 5347.0, 5480.0, 5373.0, 5498.0, 5644.0, 5572.0, 5472.0, 5351.0, 5620.0, 5362.0, 5322.0, 5408.0, 5317.0, 5491.0, 5263.0, 5700.0, 5486.0, 5257.0, 5438.0, 5365.0, 5252.0, 5546.0, 5410.0, 5534.0, 5675.0, 5638.0, 5573.0, 5356.0,

						5284.0, 5301.0, 5422.0, 5519.0, 5462.0, 5431.0, 5713.0, 5325.0, 5447.0, 5688.0, 5501.0, 5685.0, 5361.0, 5539.0, 5547.0, 5417.0, 5616.0, 5611.0, 5523.0, 5665.0, 5556.0, 5376.0, 5326.0, 5434.0, 5324.0, 5655.0, 5597.0, 5515.0, 5328.0, 5315.0, 5575.0, 5627.0, 5521.0, 5707.0, 5304.0 (number of hits: 22)
4	5530	9	1	333	1	5262.0, 5289.0, 5535.0, 5495.0, 5679.0, 5610.0, 5365.0, 5507.0, 5364.0, 5558.0, 5658.0, 5663.0, 5526.0, 5319.0, 5395.0, 5453.0, 5301.0, 5710.0, 5477.0, 5310.0, 5547.0, 5530.0, 5570.0, 5635.0, 5341.0, 5486.0, 5424.0, 5508.0, 5611.0, 5627.0, 5681.0, 5295.0, 5638.0, 5346.0, 5559.0, 5378.0, 5675.0, 5408.0, 5478.0, 5568.0, 5545.0, 5662.0, 5390.0, 5343.0, 5382.0, 5323.0, 5253.0, 5482.0, 5260.0, 5369.0, 5357.0, 5404.0, 5685.0, 5517.0, 5640.0, 5348.0, 5466.0, 5294.0, 5402.0, 5464.0, 5574.0, 5634.0, 5259.0, 5680.0, 5446.0, 5416.0, 5617.0, 5437.0, 5275.0, 5279.0, 5401.0, 5621.0, 5527.0, 5594.0, 5503.0, 5569.0, 5397.0, 5304.0, 5646.0, 5563.0, 5564.0, 5608.0, 5519.0, 5434.0, 5314.0, 5449.0, 5616.0, 5523.0, 5258.0, 5573.0, 5520.0, 5699.0, 5273.0, 5483.0, 5562.0, 5269.0, 5287.0, 5625.0, 5396.0, 5539.0 (number of hits: 22)
5	5530	9	1	333	1	5326.0, 5290.0, 5562.0, 5580.0, 5273.0, 5650.0, 5585.0, 5458.0, 5662.0, 5373.0, 5592.0, 5465.0, 5362.0, 5357.0, 5599.0, 5453.0, 5621.0, 5690.0, 5683.0, 5500.0, 5689.0, 5614.0, 5261.0, 5533.0, 5306.0, 5619.0, 5291.0, 5355.0, 5605.0, 5700.0, 5645.0, 5711.0, 5359.0, 5333.0, 5653.0, 5543.0, 5471.0, 5506.0, 5338.0, 5266.0, 5426.0, 5572.0, 5428.0, 5259.0, 5648.0, 5421.0, 5682.0, 5635.0, 5671.0, 5617.0, 5566.0, 5412.0, 5600.0, 5487.0, 5415.0, 5520.0, 5595.0, 5360.0, 5468.0, 5398.0, 5285.0, 5713.0, 5583.0, 5568.0, 5539.0, 5377.0, 5563.0, 5721.0, 5389.0, 5406.0, 5324.0, 5277.0, 5289.0, 5314.0, 5466.0, 5686.0, 5496.0, 5654.0, 5444.0, 5560.0, 5443.0, 5607.0, 5611.0, 5330.0, 5311.0, 5380.0, 5365.0, 5698.0, 5472.0, 5529.0, 5553.0, 5516.0, 5593.0, 5590.0, 5685.0, 5548.0, 5442.0, 5341.0, 5297.0, 5641.0 (number of hits: 16)
6	5530	9	1	333	1	5703.0, 5427.0, 5432.0, 5493.0, 5648.0, 5656.0, 5416.0, 5398.0, 5346.0, 5350.0, 5315.0, 5536.0, 5353.0, 5279.0, 5418.0, 5556.0, 5304.0, 5384.0, 5300.0, 5255.0, 5638.0, 5548.0, 5503.0, 5257.0, 5437.0, 5511.0, 5424.0, 5422.0, 5366.0, 5448.0, 5399.0, 5405.0, 5581.0, 5660.0, 5333.0, 5567.0, 5404.0, 5347.0, 5641.0, 5568.0, 5400.0, 5673.0, 5572.0, 5395.0, 5706.0, 5532.0, 5288.0, 5460.0, 5363.0, 5368.0,

						5695.0, 5284.0, 5655.0, 5452.0, 5275.0, 5564.0, 5415.0, 5528.0, 5439.0, 5600.0, 5694.0, 5303.0, 5670.0, 5545.0, 5578.0, 5616.0, 5487.0, 5392.0, 5444.0, 5485.0, 5621.0, 5693.0, 5305.0, 5602.0, 5446.0, 5523.0, 5436.0, 5664.0, 5383.0, 5390.0, 5637.0, 5683.0, 5535.0, 5530.0, 5355.0, 5546.0, 5316.0, 5710.0, 5613.0, 5401.0, 5308.0, 5723.0, 5669.0, 5466.0, 5634.0, 5381.0, 5429.0, 5393.0, 5650.0, 5298.0 (number of hits: 16)
7	5530	9	1	333	1	5463.0, 5646.0, 5722.0, 5338.0, 5302.0, 5562.0, 5314.0, 5719.0, 5478.0, 5428.0, 5667.0, 5606.0, 5558.0, 5493.0, 5697.0, 5296.0, 5564.0, 5529.0, 5609.0, 5416.0, 5574.0, 5382.0, 5596.0, 5398.0, 5708.0, 5510.0, 5649.0, 5511.0, 5695.0, 5538.0, 5261.0, 5298.0, 5334.0, 5310.0, 5676.0, 5551.0, 5702.0, 5332.0, 5464.0, 5415.0, 5581.0, 5421.0, 5509.0, 5587.0, 5579.0, 5570.0, 5342.0, 5391.0, 5331.0, 5584.0, 5655.0, 5674.0, 5461.0, 5624.0, 5650.0, 5251.0, 5604.0, 5628.0, 5471.0, 5660.0, 5576.0, 5519.0, 5639.0, 5385.0, 5359.0, 5418.0, 5680.0, 5411.0, 5534.0, 5539.0, 5275.0, 5369.0, 5356.0, 5683.0, 5521.0, 5583.0, 5336.0, 5540.0, 5705.0, 5608.0, 5642.0, 5460.0, 5613.0, 5364.0, 5512.0, 5262.0, 5316.0, 5431.0, 5652.0, 5597.0, 5541.0, 5443.0, 5665.0, 5257.0, 5451.0, 5633.0, 5704.0, 5679.0, 5641.0, 5482.0 (number of hits: 17)
8	5530	9	1	333	1	5626.0, 5580.0, 5631.0, 5289.0, 5531.0, 5575.0, 5603.0, 5526.0, 5660.0, 5535.0, 5634.0, 5426.0, 5298.0, 5515.0, 5650.0, 5598.0, 5356.0, 5633.0, 5296.0, 5342.0, 5464.0, 5447.0, 5562.0, 5494.0, 5344.0, 5540.0, 5513.0, 5438.0, 5546.0, 5272.0, 5478.0, 5495.0, 5358.0, 5262.0, 5387.0, 5412.0, 5652.0, 5708.0, 5493.0, 5713.0, 5698.0, 5548.0, 5297.0, 5625.0, 5671.0, 5615.0, 5521.0, 5550.0, 5622.0, 5492.0, 5574.0, 5435.0, 5260.0, 5311.0, 5640.0, 5305.0, 5533.0, 5291.0, 5694.0, 5375.0, 5457.0, 5409.0, 5569.0, 5616.0, 5683.0, 5455.0, 5404.0, 5642.0, 5702.0, 5697.0, 5337.0, 5608.0, 5480.0, 5284.0, 5389.0, 5351.0, 5253.0, 5452.0, 5674.0, 5685.0, 5710.0, 5718.0, 5663.0, 5498.0, 5295.0, 5277.0, 5613.0, 5469.0, 5565.0, 5400.0, 5505.0, 5273.0, 5545.0, 5428.0, 5430.0, 5601.0, 5630.0, 5585.0, 5627.0, 5352.0 (number of hits: 21)
9	5530	9	1	333	1	5691.0, 5492.0, 5328.0, 5563.0, 5312.0, 5259.0, 5413.0, 5392.0, 5604.0, 5469.0, 5400.0, 5527.0, 5381.0, 5373.0, 5263.0, 5479.0, 5562.0, 5577.0, 5507.0, 5487.0, 5669.0, 5593.0, 5591.0, 5664.0, 5403.0, 5699.0, 5564.0, 5261.0, 5287.0, 5643.0, 5269.0, 5695.0, 5251.0, 5679.0, 5502.0,

						5532.0, 5306.0, 5680.0, 5689.0, 5560.0, 5683.0, 5678.0, 5506.0, 5724.0, 5299.0, 5663.0, 5280.0, 5478.0, 5359.0, 5395.0, 5300.0, 5466.0, 5674.0, 5552.0, 5572.0, 5670.0, 5333.0, 5309.0, 5396.0, 5567.0, 5582.0, 5332.0, 5505.0, 5631.0, 5485.0, 5307.0, 5718.0, 5432.0, 5448.0, 5417.0, 5708.0, 5348.0, 5592.0, 5268.0, 5644.0, 5460.0, 5445.0, 5449.0, 5665.0, 5412.0, 5660.0, 5541.0, 5283.0, 5626.0, 5590.0, 5673.0, 5642.0, 5371.0, 5270.0, 5672.0, 5288.0, 5717.0, 5490.0, 5613.0, 5438.0, 5707.0, 5422.0, 5313.0, 5544.0, 5719.0 (number of hits: 16)
10	5530	9	1	333	1	5364.0, 5635.0, 5708.0, 5292.0, 5517.0, 5614.0, 5322.0, 5284.0, 5462.0, 5393.0, 5258.0, 5683.0, 5397.0, 5438.0, 5684.0, 5470.0, 5623.0, 5622.0, 5409.0, 5403.0, 5723.0, 5378.0, 5421.0, 5669.0, 5680.0, 5355.0, 5535.0, 5440.0, 5477.0, 5441.0, 5509.0, 5594.0, 5471.0, 5271.0, 5508.0, 5420.0, 5539.0, 5591.0, 5616.0, 5291.0, 5484.0, 5350.0, 5558.0, 5417.0, 5351.0, 5334.0, 5260.0, 5499.0, 5395.0, 5521.0, 5549.0, 5269.0, 5429.0, 5288.0, 5425.0, 5321.0, 5627.0, 5659.0, 5251.0, 5572.0, 5338.0, 5507.0, 5383.0, 5326.0, 5384.0, 5375.0, 5339.0, 5529.0, 5604.0, 5678.0, 5691.0, 5423.0, 5434.0, 5422.0, 5428.0, 5601.0, 5368.0, 5561.0, 5445.0, 5431.0, 5259.0, 5615.0, 5536.0, 5311.0, 5577.0, 5400.0, 5711.0, 5298.0, 5408.0, 5548.0, 5503.0, 5532.0, 5272.0, 5563.0, 5336.0, 5285.0, 5538.0, 5357.0, 5387.0, 5573.0 (number of hits: 18)
11	5530	9	1	333	1	5301.0, 5374.0, 5300.0, 5669.0, 5487.0, 5646.0, 5280.0, 5290.0, 5344.0, 5448.0, 5632.0, 5496.0, 5668.0, 5702.0, 5607.0, 5389.0, 5276.0, 5302.0, 5398.0, 5611.0, 5468.0, 5579.0, 5336.0, 5418.0, 5403.0, 5513.0, 5345.0, 5297.0, 5256.0, 5442.0, 5569.0, 5713.0, 5573.0, 5370.0, 5680.0, 5356.0, 5633.0, 5472.0, 5589.0, 5535.0, 5620.0, 5576.0, 5672.0, 5279.0, 5357.0, 5642.0, 5440.0, 5387.0, 5540.0, 5580.0, 5641.0, 5676.0, 5266.0, 5606.0, 5614.0, 5372.0, 5391.0, 5549.0, 5354.0, 5362.0, 5723.0, 5686.0, 5255.0, 5447.0, 5385.0, 5502.0, 5399.0, 5364.0, 5456.0, 5438.0, 5433.0, 5697.0, 5347.0, 5659.0, 5410.0, 5378.0, 5277.0, 5602.0, 5452.0, 5412.0, 5310.0, 5407.0, 5250.0, 5625.0, 5582.0, 5296.0, 5312.0, 5307.0, 5479.0, 5712.0, 5645.0, 5258.0, 5636.0, 5593.0, 5529.0, 5449.0, 5308.0, 5671.0, 5324.0, 5692.0 (number of hits: 8)
12	5530	9	1	333	1	5570.0, 5702.0, 5398.0, 5474.0, 5423.0, 5434.0, 5658.0, 5302.0, 5593.0, 5379.0, 5612.0, 5531.0, 5622.0, 5521.0, 5372.0, 5441.0, 5564.0, 5285.0, 5630.0, 5676.0,

						5722.0, 5671.0, 5433.0, 5425.0, 5278.0, 5491.0, 5304.0, 5444.0, 5566.0, 5649.0, 5577.0, 5565.0, 5626.0, 5298.0, 5387.0, 5394.0, 5634.0, 5563.0, 5342.0, 5714.0, 5573.0, 5633.0, 5618.0, 5397.0, 5410.0, 5701.0, 5703.0, 5691.0, 5263.0, 5365.0, 5438.0, 5631.0, 5582.0, 5347.0, 5523.0, 5321.0, 5528.0, 5325.0, 5489.0, 5373.0, 5404.0, 5378.0, 5680.0, 5599.0, 5280.0, 5286.0, 5600.0, 5488.0, 5393.0, 5256.0, 5421.0, 5409.0, 5344.0, 5533.0, 5399.0, 5453.0, 5547.0, 5574.0, 5296.0, 5561.0, 5604.0, 5704.0, 5348.0, 5295.0, 5447.0, 5375.0, 5426.0, 5430.0, 5402.0, 5640.0, 5326.0, 5625.0, 5459.0, 5689.0, 5442.0, 5374.0, 5662.0, 5606.0, 5253.0, 5583.0 (number of hits: 12)
13	5530	9	1	333	1	5580.0, 5448.0, 5438.0, 5673.0, 5451.0, 5472.0, 5443.0, 5709.0, 5254.0, 5279.0, 5379.0, 5591.0, 5549.0, 5599.0, 5529.0, 5708.0, 5271.0, 5266.0, 5365.0, 5555.0, 5414.0, 5312.0, 5563.0, 5691.0, 5544.0, 5329.0, 5439.0, 5258.0, 5370.0, 5639.0, 5498.0, 5467.0, 5491.0, 5654.0, 5359.0, 5361.0, 5509.0, 5330.0, 5396.0, 5592.0, 5671.0, 5482.0, 5629.0, 5259.0, 5595.0, 5441.0, 5662.0, 5290.0, 5503.0, 5550.0, 5459.0, 5684.0, 5409.0, 5667.0, 5511.0, 5635.0, 5469.0, 5499.0, 5701.0, 5474.0, 5342.0, 5433.0, 5617.0, 5710.0, 5313.0, 5302.0, 5453.0, 5291.0, 5257.0, 5470.0, 5578.0, 5348.0, 5534.0, 5685.0, 5260.0, 5717.0, 5702.0, 5581.0, 5341.0, 5652.0, 5612.0, 5386.0, 5497.0, 5306.0, 5272.0, 5283.0, 5275.0, 5465.0, 5718.0, 5546.0, 5281.0, 5347.0, 5368.0, 5570.0, 5516.0, 5480.0, 5457.0, 5351.0, 5694.0, 5265.0 (number of hits: 16)
14	5530	9	1	333	1	5475.0, 5293.0, 5430.0, 5696.0, 5266.0, 5644.0, 5540.0, 5271.0, 5377.0, 5299.0, 5340.0, 5288.0, 5665.0, 5557.0, 5433.0, 5544.0, 5447.0, 5257.0, 5627.0, 5571.0, 5361.0, 5572.0, 5509.0, 5489.0, 5419.0, 5689.0, 5378.0, 5254.0, 5546.0, 5402.0, 5264.0, 5276.0, 5263.0, 5483.0, 5463.0, 5481.0, 5535.0, 5651.0, 5716.0, 5410.0, 5547.0, 5400.0, 5278.0, 5432.0, 5351.0, 5354.0, 5336.0, 5311.0, 5458.0, 5250.0, 5559.0, 5365.0, 5633.0, 5330.0, 5324.0, 5307.0, 5282.0, 5607.0, 5539.0, 5634.0, 5393.0, 5306.0, 5597.0, 5262.0, 5482.0, 5379.0, 5390.0, 5596.0, 5650.0, 5424.0, 5414.0, 5653.0, 5615.0, 5566.0, 5335.0, 5487.0, 5622.0, 5392.0, 5605.0, 5435.0, 5339.0, 5617.0, 5333.0, 5555.0, 5404.0, 5641.0, 5338.0, 5296.0, 5349.0, 5682.0, 5387.0, 5616.0, 5705.0, 5291.0, 5479.0, 5645.0, 5405.0, 5488.0, 5451.0, 5623.0 (number of hits: 11)
15	5530	9	1	333	1	5645.0, 5443.0, 5695.0, 5566.0, 5346.0,

						5299.0, 5313.0, 5644.0, 5386.0, 5442.0, 5426.0, 5421.0, 5348.0, 5475.0, 5667.0, 5323.0, 5565.0, 5686.0, 5385.0, 5700.0, 5664.0, 5254.0, 5326.0, 5370.0, 5437.0, 5336.0, 5532.0, 5303.0, 5469.0, 5491.0, 5487.0, 5608.0, 5672.0, 5709.0, 5307.0, 5420.0, 5673.0, 5252.0, 5344.0, 5519.0, 5614.0, 5353.0, 5651.0, 5342.0, 5539.0, 5509.0, 5314.0, 5476.0, 5423.0, 5575.0, 5674.0, 5459.0, 5523.0, 5518.0, 5501.0, 5625.0, 5503.0, 5561.0, 5696.0, 5722.0, 5289.0, 5458.0, 5434.0, 5494.0, 5505.0, 5663.0, 5432.0, 5555.0, 5545.0, 5466.0, 5536.0, 5406.0, 5528.0, 5492.0, 5569.0, 5560.0, 5639.0, 5703.0, 5413.0, 5599.0, 5430.0, 5343.0, 5493.0, 5681.0, 5259.0, 5374.0, 5558.0, 5579.0, 5472.0, 5533.0, 5447.0, 5482.0, 5530.0, 5356.0, 5266.0, 5253.0, 5424.0, 5517.0, 5457.0, 5438.0 (number of hits: 26)
16	5530	9	1	333	1	5433.0, 5542.0, 5714.0, 5636.0, 5330.0, 5668.0, 5438.0, 5266.0, 5308.0, 5648.0, 5304.0, 5495.0, 5494.0, 5539.0, 5513.0, 5711.0, 5520.0, 5488.0, 5252.0, 5381.0, 5555.0, 5360.0, 5650.0, 5485.0, 5329.0, 5608.0, 5278.0, 5359.0, 5631.0, 5516.0, 5328.0, 5373.0, 5306.0, 5371.0, 5592.0, 5382.0, 5368.0, 5305.0, 5374.0, 5656.0, 5705.0, 5591.0, 5413.0, 5426.0, 5662.0, 5372.0, 5365.0, 5623.0, 5366.0, 5709.0, 5721.0, 5678.0, 5515.0, 5336.0, 5332.0, 5599.0, 5622.0, 5322.0, 5264.0, 5716.0, 5346.0, 5339.0, 5384.0, 5349.0, 5587.0, 5297.0, 5414.0, 5593.0, 5341.0, 5537.0, 5267.0, 5680.0, 5310.0, 5659.0, 5376.0, 5315.0, 5443.0, 5564.0, 5351.0, 5630.0, 5658.0, 5354.0, 5302.0, 5535.0, 5621.0, 5700.0, 5688.0, 5265.0, 5596.0, 5277.0, 5362.0, 5251.0, 5314.0, 5294.0, 5638.0, 5633.0, 5567.0, 5313.0, 5670.0, 5588.0 (number of hits: 13)
17	5530	9	1	333	1	5719.0, 5358.0, 5530.0, 5570.0, 5555.0, 5357.0, 5550.0, 5512.0, 5460.0, 5313.0, 5563.0, 5466.0, 5304.0, 5671.0, 5722.0, 5263.0, 5664.0, 5449.0, 5607.0, 5327.0, 5573.0, 5537.0, 5289.0, 5525.0, 5513.0, 5580.0, 5716.0, 5390.0, 5407.0, 5622.0, 5352.0, 5630.0, 5499.0, 5531.0, 5552.0, 5315.0, 5411.0, 5429.0, 5316.0, 5299.0, 5564.0, 5363.0, 5282.0, 5410.0, 5285.0, 5696.0, 5375.0, 5471.0, 5710.0, 5571.0, 5634.0, 5632.0, 5642.0, 5325.0, 5340.0, 5456.0, 5562.0, 5629.0, 5350.0, 5468.0, 5379.0, 5503.0, 5284.0, 5324.0, 5477.0, 5398.0, 5294.0, 5262.0, 5419.0, 5661.0, 5498.0, 5326.0, 5355.0, 5303.0, 5600.0, 5301.0, 5373.0, 5431.0, 5534.0, 5554.0, 5487.0, 5306.0, 5464.0, 5686.0, 5720.0, 5602.0, 5485.0, 5672.0, 5297.0, 5364.0, 5641.0, 5599.0, 5624.0, 5296.0, 5260.0,

						5608.0, 5646.0, 5481.0, 5346.0, 5457.0 (number of hits: 17)
18	5530	9	1	333	1	5506.0, 5391.0, 5590.0, 5706.0, 5531.0, 5372.0, 5637.0, 5669.0, 5583.0, 5616.0, 5417.0, 5498.0, 5703.0, 5327.0, 5502.0, 5572.0, 5434.0, 5270.0, 5481.0, 5678.0, 5718.0, 5503.0, 5714.0, 5592.0, 5710.0, 5539.0, 5656.0, 5355.0, 5360.0, 5377.0, 5263.0, 5497.0, 5431.0, 5508.0, 5418.0, 5306.0, 5261.0, 5386.0, 5394.0, 5596.0, 5460.0, 5610.0, 5279.0, 5396.0, 5647.0, 5349.0, 5570.0, 5452.0, 5388.0, 5528.0, 5359.0, 5273.0, 5354.0, 5331.0, 5440.0, 5297.0, 5294.0, 5511.0, 5345.0, 5329.0, 5623.0, 5713.0, 5591.0, 5404.0, 5540.0, 5695.0, 5326.0, 5266.0, 5469.0, 5660.0, 5641.0, 5464.0, 5526.0, 5524.0, 5629.0, 5302.0, 5468.0, 5453.0, 5258.0, 5517.0, 5337.0, 5567.0, 5277.0, 5274.0, 5624.0, 5672.0, 5259.0, 5719.0, 5334.0, 5646.0, 5367.0, 5681.0, 5622.0, 5614.0, 5529.0, 5619.0, 5340.0, 5447.0, 5320.0, 5473.0 (number of hits: 16)
19	5530	9	1	333	1	5458.0, 5664.0, 5676.0, 5280.0, 5576.0, 5465.0, 5397.0, 5718.0, 5532.0, 5498.0, 5583.0, 5582.0, 5670.0, 5373.0, 5337.0, 5254.0, 5557.0, 5517.0, 5651.0, 5618.0, 5335.0, 5313.0, 5720.0, 5519.0, 5511.0, 5510.0, 5647.0, 5384.0, 5399.0, 5325.0, 5652.0, 5666.0, 5289.0, 5401.0, 5475.0, 5711.0, 5410.0, 5439.0, 5627.0, 5571.0, 5482.0, 5303.0, 5473.0, 5722.0, 5348.0, 5548.0, 5278.0, 5452.0, 5363.0, 5521.0, 5307.0, 5675.0, 5286.0, 5697.0, 5457.0, 5624.0, 5585.0, 5554.0, 5435.0, 5300.0, 5359.0, 5445.0, 5368.0, 5443.0, 5450.0, 5674.0, 5346.0, 5714.0, 5550.0, 5556.0, 5434.0, 5424.0, 5389.0, 5528.0, 5423.0, 5263.0, 5549.0, 5712.0, 5535.0, 5406.0, 5559.0, 5479.0, 5403.0, 5484.0, 5602.0, 5568.0, 5631.0, 5650.0, 5625.0, 5469.0, 5426.0, 5414.0, 5546.0, 5573.0, 5693.0, 5724.0, 5536.0, 5543.0, 5560.0, 5685.0 (number of hits: 21)
20	5530	9	1	333	1	5646.0, 5606.0, 5471.0, 5685.0, 5624.0, 5401.0, 5314.0, 5567.0, 5612.0, 5385.0, 5574.0, 5498.0, 5483.0, 5661.0, 5404.0, 5456.0, 5261.0, 5253.0, 5588.0, 5594.0, 5670.0, 5490.0, 5657.0, 5326.0, 5377.0, 5477.0, 5562.0, 5293.0, 5383.0, 5460.0, 5645.0, 5558.0, 5576.0, 5531.0, 5325.0, 5352.0, 5345.0, 5305.0, 5575.0, 5461.0, 5428.0, 5675.0, 5547.0, 5501.0, 5482.0, 5441.0, 5252.0, 5364.0, 5647.0, 5701.0, 5703.0, 5539.0, 5260.0, 5524.0, 5416.0, 5548.0, 5586.0, 5421.0, 5687.0, 5411.0, 5507.0, 5662.0, 5466.0, 5303.0, 5551.0, 5273.0, 5271.0, 5625.0, 5397.0, 5695.0, 5573.0, 5425.0, 5418.0, 5681.0, 5522.0, 5511.0, 5259.0, 5556.0, 5683.0, 5680.0,

						5638.0, 5458.0, 5433.0, 5655.0, 5517.0, 5544.0, 5536.0, 5542.0, 5336.0, 5497.0, 5324.0, 5583.0, 5438.0, 5505.0, 5676.0, 5386.0, 5417.0, 5376.0, 5361.0, 5339.0 (number of hits: 22)
21	5530	9	1	333	1	5295.0, 5572.0, 5599.0, 5561.0, 5509.0, 5594.0, 5542.0, 5332.0, 5451.0, 5548.0, 5608.0, 5511.0, 5590.0, 5471.0, 5655.0, 5676.0, 5403.0, 5376.0, 5478.0, 5558.0, 5684.0, 5395.0, 5538.0, 5620.0, 5459.0, 5359.0, 5291.0, 5602.0, 5565.0, 5622.0, 5604.0, 5425.0, 5323.0, 5605.0, 5634.0, 5417.0, 5462.0, 5430.0, 5477.0, 5697.0, 5681.0, 5264.0, 5708.0, 5409.0, 5300.0, 5468.0, 5555.0, 5490.0, 5512.0, 5282.0, 5517.0, 5508.0, 5455.0, 5454.0, 5689.0, 5294.0, 5664.0, 5631.0, 5267.0, 5550.0, 5584.0, 5424.0, 5364.0, 5413.0, 5369.0, 5488.0, 5630.0, 5420.0, 5693.0, 5399.0, 5465.0, 5299.0, 5641.0, 5479.0, 5254.0, 5352.0, 5339.0, 5503.0, 5384.0, 5672.0, 5531.0, 5263.0, 5351.0, 5627.0, 5609.0, 5553.0, 5355.0, 5334.0, 5444.0, 5716.0, 5486.0, 5475.0, 5393.0, 5635.0, 5348.0, 5492.0, 5373.0, 5522.0, 5482.0, 5396.0 (number of hits: 19)
22	5530	9	1	333	1	5690.0, 5561.0, 5508.0, 5322.0, 5530.0, 5269.0, 5641.0, 5458.0, 5625.0, 5264.0, 5538.0, 5415.0, 5612.0, 5636.0, 5580.0, 5397.0, 5558.0, 5355.0, 5529.0, 5325.0, 5569.0, 5250.0, 5501.0, 5373.0, 5432.0, 5548.0, 5519.0, 5563.0, 5494.0, 5371.0, 5622.0, 5651.0, 5614.0, 5657.0, 5316.0, 5438.0, 5589.0, 5587.0, 5486.0, 5591.0, 5482.0, 5620.0, 5629.0, 5387.0, 5518.0, 5606.0, 5675.0, 5391.0, 5423.0, 5654.0, 5348.0, 5631.0, 5377.0, 5367.0, 5456.0, 5484.0, 5635.0, 5310.0, 5312.0, 5536.0, 5644.0, 5655.0, 5593.0, 5702.0, 5300.0, 5275.0, 5267.0, 5270.0, 5389.0, 5574.0, 5446.0, 5514.0, 5595.0, 5604.0, 5642.0, 5401.0, 5608.0, 5332.0, 5475.0, 5609.0, 5524.0, 5256.0, 5698.0, 5338.0, 5405.0, 5697.0, 5420.0, 5656.0, 5308.0, 5699.0, 5402.0, 5280.0, 5634.0, 5541.0, 5674.0, 5709.0, 5552.0, 5583.0, 5461.0, 5340.0 (number of hits: 18)
23	5530	9	1	333	1	5564.0, 5359.0, 5512.0, 5698.0, 5597.0, 5558.0, 5697.0, 5570.0, 5486.0, 5448.0, 5579.0, 5460.0, 5263.0, 5407.0, 5336.0, 5555.0, 5386.0, 5434.0, 5629.0, 5333.0, 5427.0, 5528.0, 5588.0, 5683.0, 5561.0, 5646.0, 5268.0, 5501.0, 5491.0, 5269.0, 5331.0, 5267.0, 5418.0, 5672.0, 5355.0, 5422.0, 5577.0, 5651.0, 5527.0, 5325.0, 5584.0, 5479.0, 5604.0, 5450.0, 5487.0, 5496.0, 5696.0, 5624.0, 5686.0, 5251.0, 5586.0, 5396.0, 5605.0, 5280.0, 5356.0, 5326.0, 5722.0, 5606.0, 5352.0, 5475.0, 5637.0, 5394.0, 5273.0, 5462.0, 5652.0,

						5275.0, 5368.0, 5708.0, 5332.0, 5645.0, 5594.0, 5446.0, 5649.0, 5621.0, 5573.0, 5344.0, 5643.0, 5644.0, 5424.0, 5515.0, 5303.0, 5366.0, 5348.0, 5360.0, 5608.0, 5720.0, 5693.0, 5461.0, 5265.0, 5670.0, 5705.0, 5702.0, 5700.0, 5266.0, 5641.0, 5603.0, 5716.0, 5252.0, 5553.0, 5455.0 (number of hits: 12)
24	5530	9	1	333	1	5526.0, 5455.0, 5593.0, 5321.0, 5496.0, 5462.0, 5661.0, 5323.0, 5566.0, 5504.0, 5616.0, 5349.0, 5340.0, 5421.0, 5599.0, 5717.0, 5381.0, 5591.0, 5376.0, 5419.0, 5412.0, 5492.0, 5485.0, 5437.0, 5450.0, 5333.0, 5617.0, 5711.0, 5645.0, 5304.0, 5543.0, 5594.0, 5457.0, 5529.0, 5710.0, 5295.0, 5714.0, 5329.0, 5712.0, 5705.0, 5256.0, 5298.0, 5263.0, 5396.0, 5592.0, 5628.0, 5332.0, 5429.0, 5433.0, 5346.0, 5612.0, 5334.0, 5556.0, 5474.0, 5571.0, 5698.0, 5439.0, 5278.0, 5721.0, 5677.0, 5461.0, 5623.0, 5663.0, 5337.0, 5575.0, 5615.0, 5307.0, 5324.0, 5534.0, 5579.0, 5557.0, 5375.0, 5531.0, 5441.0, 5683.0, 5600.0, 5498.0, 5634.0, 5589.0, 5545.0, 5424.0, 5443.0, 5720.0, 5285.0, 5343.0, 5473.0, 5718.0, 5273.0, 5402.0, 5436.0, 5501.0, 5694.0, 5491.0, 5583.0, 5527.0, 5459.0, 5530.0, 5463.0, 5403.0, 5704.0 (number of hits: 17)
25	5530	9	1	333	1	5277.0, 5651.0, 5315.0, 5376.0, 5509.0, 5652.0, 5601.0, 5459.0, 5493.0, 5596.0, 5402.0, 5430.0, 5387.0, 5534.0, 5658.0, 5691.0, 5253.0, 5634.0, 5349.0, 5501.0, 5426.0, 5621.0, 5423.0, 5718.0, 5467.0, 5462.0, 5715.0, 5431.0, 5451.0, 5490.0, 5450.0, 5616.0, 5698.0, 5554.0, 5369.0, 5722.0, 5684.0, 5443.0, 5622.0, 5602.0, 5394.0, 5358.0, 5329.0, 5298.0, 5364.0, 5289.0, 5367.0, 5400.0, 5393.0, 5353.0, 5690.0, 5294.0, 5270.0, 5649.0, 5318.0, 5314.0, 5568.0, 5717.0, 5372.0, 5535.0, 5656.0, 5476.0, 5686.0, 5259.0, 5522.0, 5381.0, 5660.0, 5398.0, 5518.0, 5355.0, 5333.0, 5418.0, 5582.0, 5540.0, 5565.0, 5337.0, 5585.0, 5663.0, 5580.0, 5299.0, 5593.0, 5693.0, 5629.0, 5477.0, 5405.0, 5721.0, 5628.0, 5687.0, 5276.0, 5615.0, 5309.0, 5320.0, 5379.0, 5285.0, 5527.0, 5448.0, 5678.0, 5607.0, 5292.0, 5395.0 (number of hits: 13)
26	5530	9	1	333	1	5617.0, 5649.0, 5381.0, 5407.0, 5440.0, 5286.0, 5501.0, 5514.0, 5533.0, 5601.0, 5528.0, 5436.0, 5664.0, 5594.0, 5683.0, 5478.0, 5424.0, 5698.0, 5391.0, 5526.0, 5462.0, 5627.0, 5262.0, 5657.0, 5292.0, 5631.0, 5405.0, 5623.0, 5678.0, 5653.0, 5714.0, 5642.0, 5585.0, 5574.0, 5549.0, 5416.0, 5422.0, 5302.0, 5281.0, 5273.0, 5406.0, 5376.0, 5432.0, 5451.0, 5563.0, 5542.0, 5572.0, 5523.0, 5371.0, 5253.0,

						5305.0, 5684.0, 5278.0, 5329.0, 5268.0, 5252.0, 5545.0, 5364.0, 5289.0, 5541.0, 5599.0, 5411.0, 5658.0, 5359.0, 5694.0, 5586.0, 5383.0, 5634.0, 5613.0, 5487.0, 5441.0, 5375.0, 5320.0, 5534.0, 5552.0, 5454.0, 5304.0, 5412.0, 5271.0, 5296.0, 5638.0, 5682.0, 5525.0, 5485.0, 5591.0, 5669.0, 5587.0, 5256.0, 5720.0, 5343.0, 5715.0, 5551.0, 5341.0, 5277.0, 5299.0, 5395.0, 5287.0, 5316.0, 5295.0, 5446.0 (number of hits: 15)
27	5530	9	1	333	1	5336.0, 5250.0, 5521.0, 5668.0, 5380.0, 5705.0, 5615.0, 5575.0, 5510.0, 5452.0, 5607.0, 5256.0, 5493.0, 5613.0, 5501.0, 5483.0, 5675.0, 5538.0, 5435.0, 5637.0, 5657.0, 5693.0, 5334.0, 5474.0, 5699.0, 5714.0, 5325.0, 5382.0, 5337.0, 5712.0, 5304.0, 5499.0, 5703.0, 5698.0, 5279.0, 5597.0, 5297.0, 5285.0, 5547.0, 5641.0, 5477.0, 5633.0, 5577.0, 5596.0, 5266.0, 5618.0, 5453.0, 5622.0, 5661.0, 5475.0, 5368.0, 5461.0, 5419.0, 5564.0, 5579.0, 5487.0, 5313.0, 5723.0, 5721.0, 5504.0, 5406.0, 5707.0, 5634.0, 5692.0, 5516.0, 5550.0, 5448.0, 5263.0, 5482.0, 5397.0, 5270.0, 5298.0, 5654.0, 5571.0, 5259.0, 5616.0, 5697.0, 5667.0, 5602.0, 5625.0, 5646.0, 5489.0, 5555.0, 5284.0, 5530.0, 5485.0, 5261.0, 5638.0, 5379.0, 5497.0, 5395.0, 5515.0, 5431.0, 5592.0, 5252.0, 5503.0, 5536.0, 5274.0, 5670.0, 5711.0 (number of hits: 17)
28	5530	9	1	333	1	5523.0, 5477.0, 5543.0, 5721.0, 5416.0, 5407.0, 5434.0, 5465.0, 5319.0, 5360.0, 5596.0, 5501.0, 5460.0, 5517.0, 5502.0, 5348.0, 5574.0, 5633.0, 5622.0, 5369.0, 5540.0, 5587.0, 5433.0, 5639.0, 5667.0, 5436.0, 5451.0, 5380.0, 5382.0, 5406.0, 5706.0, 5496.0, 5505.0, 5520.0, 5705.0, 5368.0, 5481.0, 5538.0, 5381.0, 5441.0, 5387.0, 5287.0, 5424.0, 5353.0, 5510.0, 5591.0, 5530.0, 5263.0, 5346.0, 5590.0, 5273.0, 5526.0, 5274.0, 5456.0, 5427.0, 5507.0, 5467.0, 5720.0, 5582.0, 5546.0, 5341.0, 5340.0, 5297.0, 5687.0, 5662.0, 5599.0, 5549.0, 5533.0, 5702.0, 5417.0, 5350.0, 5296.0, 5448.0, 5651.0, 5635.0, 5322.0, 5669.0, 5435.0, 5674.0, 5704.0, 5347.0, 5286.0, 5422.0, 5542.0, 5294.0, 5564.0, 5663.0, 5612.0, 5473.0, 5428.0, 5656.0, 5304.0, 5646.0, 5609.0, 5318.0, 5624.0, 5672.0, 5524.0, 5586.0, 5506.0 (number of hits: 21)
29	5530	9	1	333	1	5397.0, 5462.0, 5689.0, 5384.0, 5563.0, 5537.0, 5569.0, 5641.0, 5408.0, 5284.0, 5647.0, 5649.0, 5572.0, 5351.0, 5484.0, 5662.0, 5691.0, 5534.0, 5547.0, 5589.0, 5621.0, 5469.0, 5685.0, 5508.0, 5427.0, 5594.0, 5266.0, 5260.0, 5510.0, 5723.0, 5506.0, 5666.0, 5601.0, 5617.0, 5331.0,

						5328.0, 5383.0, 5652.0, 5325.0, 5304.0, 5604.0, 5529.0, 5603.0, 5405.0, 5696.0, 5321.0, 5353.0, 5254.0, 5718.0, 5714.0, 5653.0, 5461.0, 5682.0, 5620.0, 5282.0, 5252.0, 5445.0, 5419.0, 5409.0, 5437.0, 5385.0, 5622.0, 5608.0, 5568.0, 5619.0, 5301.0, 5481.0, 5338.0, 5557.0, 5314.0, 5389.0, 5330.0, 5588.0, 5288.0, 5497.0, 5418.0, 5503.0, 5513.0, 5673.0, 5430.0, 5267.0, 5518.0, 5463.0, 5579.0, 5317.0, 5700.0, 5598.0, 5415.0, 5394.0, 5413.0, 5643.0, 5465.0, 5300.0, 5574.0, 5500.0, 5712.0, 5253.0, 5259.0, 5292.0, 5380.0 (number of hits: 16)
30	5530	9	1	333	1	5410.0, 5565.0, 5442.0, 5317.0, 5342.0, 5498.0, 5567.0, 5456.0, 5724.0, 5269.0, 5659.0, 5502.0, 5258.0, 5616.0, 5667.0, 5424.0, 5493.0, 5354.0, 5319.0, 5303.0, 5321.0, 5497.0, 5716.0, 5538.0, 5255.0, 5414.0, 5291.0, 5473.0, 5292.0, 5556.0, 5425.0, 5690.0, 5714.0, 5458.0, 5562.0, 5566.0, 5605.0, 5701.0, 5514.0, 5580.0, 5297.0, 5496.0, 5523.0, 5474.0, 5601.0, 5368.0, 5418.0, 5484.0, 5583.0, 5547.0, 5557.0, 5479.0, 5706.0, 5649.0, 5430.0, 5693.0, 5685.0, 5702.0, 5607.0, 5533.0, 5298.0, 5318.0, 5485.0, 5643.0, 5620.0, 5439.0, 5403.0, 5428.0, 5392.0, 5323.0, 5347.0, 5449.0, 5355.0, 5720.0, 5377.0, 5466.0, 5541.0, 5669.0, 5461.0, 5584.0, 5433.0, 5704.0, 5316.0, 5274.0, 5415.0, 5614.0, 5692.0, 5367.0, 5281.0, 5569.0, 5253.0, 5336.0, 5652.0, 5487.0, 5629.0, 5351.0, 5654.0, 5369.0, 5300.0, 5346.0 (number of hits: 18)

10 Annex A (Normative) - A2LA Electrical Testing Certificate



Accredited Laboratory

A2LA has accredited

BAY AREA COMPLIANCE LABORATORIES CORP.

Sunnyvale, CA

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. This laboratory also meets A2LA R222 - Specific Requirements EPA ENERGY STAR Accreditation Program. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 2nd day of October 2018.

A blue ink signature of the Vice President, Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3297.02
Valid to February 28, 2021
Revised December 04, 2020

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.

Please follow the web link below for a full ISO 17025 scope

<https://www.a2la.org/scopepdf/3297-02.pdf>

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