FCC PART 15.407
DYNAMIC FREQUENCY SELECTION
TEST AND MEASUREMENT REPORT

For

Ruckus Wireless, Inc.

350 West Java Drive,

Sunnyvale, CA 94089, USA

FCC ID: S9GZF7372E
IC: 5912A-ZF7372E

Report Type:	Equipment Type:
Original Report	802.11a/b/g/n Access Point

Prepared By:	Ning Ma
Report No.:	R1303042-DFS
Report Date:	2013-06-30
Reviewed By:	Victor Zhang EMC/RF Lead

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	R1303042-FCC DFS	Original Report	2013-06-30

1   General Description

1.1   Product Description for Equipment under Test (EUT)

This test and measurement report was prepared on behalf of *Ruckus Wireless, Inc*., and their product model: *ZoneFlex 7372E, FCC ID: S9GZF7372E, IC: 5912A-ZF7372E* or the "EUT" as referred to in this report. The EUT is a 2x2 MIMO 802.11 a/b/g/n RLAN Access Point operates in 2.4 GHz and 5 GHz bands.

1.2   Mechanical Description of EUT

The EUT measures approximately 160 cm (L) x 160 cm (W) x 35 cm (H) and weighs 334.5 g.

The test data gathered are from typical production sample, serial number: R1303042-01 assigned by BACL.

1.3   Objective

This report is prepared on behalf of *Ruckus Wireless, Inc.,* in accordance with FCC CFR47 §15.407 (h) and FCC 06-96 Appendix.

The objective is to determine compliance with FCC rules for DFS Detection Threshold, Channel Availability Check Time, Uniform Spreading U-NII Detection Bandwidth, Channel Closing Transmission Time, and Channel Move time

1.4   Related Submittal(s)/Grant(s)

N/A

1.5   Test Methodology

FCC CFR 47 Part2, Part15.407 (h)

FCC 06-96 Appendix "COMPLIANCE MEASUREMENT PROCEDURES FOR UNLICENSED NATIONAL INFORMATION INFRASTRUCTURE DEVICES OPERATING IN THE 5250-5350 MHz AND 5470-5725 MHz BANDS INCORPORATING DYNAMIC FREQUENCY SELECTION"

1.6   Test Facility

The test site used by BACL Corp. to collect radiated and conducted emissions measurement data is located at its facility in Sunnyvale, California, USA.

The test site at BACL Corp. has been fully described in reports submitted to the Federal Communication Commission (FCC) and Voluntary Control Council for Interference (VCCI). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 11 and December 10, 1997, and Article 8 of the VCCI regulations on December 25, 1997. The test site also complies with the test methods and procedures set forth in CISPR 22:2008 §10.4 for measurements below 1 GHz and §10.6 for measurements above 1 GHz as well as ANSI C63.4-2003, ANSI C63.4-2009, TIA/EIA-603 & CISPR 24:2010.

The Federal Communications Commission and Voluntary Control Council for Interference have the reports on file and they are listed under FCC registration number: 90464 and VCCI Registration No.: A-0027. The test site has been approved by the FCC and VCCI for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, BACL Corp. is an American Association for laboratory Accreditation (A2LA) accredited laboratory (Lab Code 3297-02). The current scope of accreditations can be found at

http://www.a2la.org/scopepdf/3297-02.pdf?CFID=1132286&CFTOKEN=e42a3240dac3f6ba-6DE17DCB-1851-9E57-477422F667031258&jsessionid=8430d44f1f47cf2996124343c704b367816b

2   EUT Test Configuration

2.1   Justification

The EUT was configured for testing according to FCC Part 15.407(H) Standard.

2.2   EUT Exercise Software

The software version is 9.6.0.264, was provided by customer and verified by Ning Ma to comply with the standard requirements being tested against.

2.3   Equipment Modifications

Includes reference to the location of the pictures

2.4   Local Support Equipment

Manufacturer	Description	Model	Serial Number
DELL	Laptop	Latitude E5420	-

2.5   EUT Internal Configuration

Manufacturer	Description	Model	Serial Number
Ruckus	Motherboard	St. Bernard ASM 120 11214 001 REV A	7115110152012CN02E

2.6   Interface Ports and Cables

Cable Description	Length (m)	To	From
RF Cable	<1.0	PSA	EUT
RJ 45 Cable	<1.0	Laptop	EUT

2.7   Power Supply List and Details

Manufacturer	Description	Model	Part Number
Ruckus	Switching Adapter	ADS-18C-12N 12018GPCU	740-64129-011
Ruckus	POE	NPE-5818	740-64157-001
Ruckus	POE Switch-Mode Power Supply	8A-201WU48	740-64125-010

3   Summary of Test Results

The following result table represents the list of measurements required under the CFR47 §47 Part15.407 (h) and FCC 06-96.

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

4   Applicable Standards

4.1   DFS Requirement

FCC CFR47 §15.407 (h) and FCC 06-96 Appendix.

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
Uniform Spreading	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	**Client** (Without DFS)	**Client** (With DFS)
DFS Detection Threshold	Yes	Not Required	Yes
Channel Closing Transmission Time	Yes	Yes	Yes
Channel Move Time	Yes	Yes	Yes

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

Maximum Transmit Power	Value (See Notes 1 and 2)
≥ 200 milliwatt	-64 dBm
< 200 milliwatt	-62 dBm
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. **Note 2:** Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.	

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 80% of the UNII 99% transmission power bandwidth. See Note 3.

Note 1: The instant that the *Channel Move Time* and the *Channel Closing Transmission Time* begins is as follows:
- For the Short Pulse Radar Test Signals this instant is the end of the *Burst*.
- For the Frequency Hopping radar Test Signal, this instant is the end of the last radar *Burst* generated.
- For the Long Pulse Radar Test Signal this instant is the end of the 12 second period defining the *Radar Waveform*.

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

Note 3: During the *U-NII Detection Bandwidth* detection test, radar type 1 is used and for each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

Table 5: Short Pulse Radar Test Waveforms

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

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

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
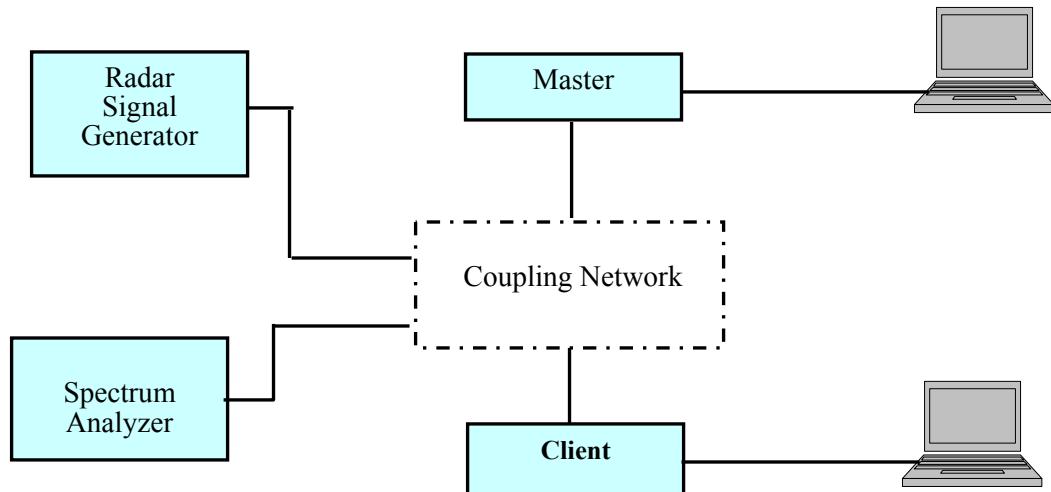
4.4   Conducted Method
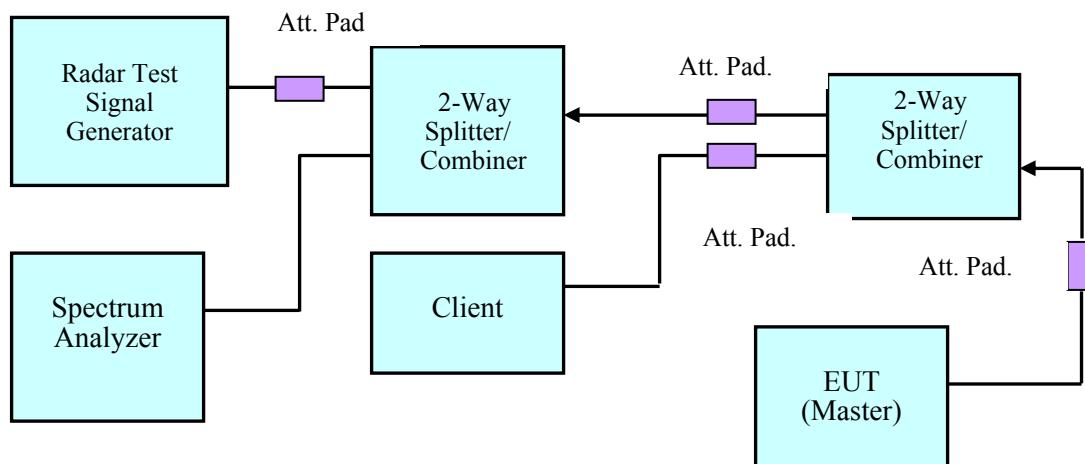
Setup for Master with injection at the Master
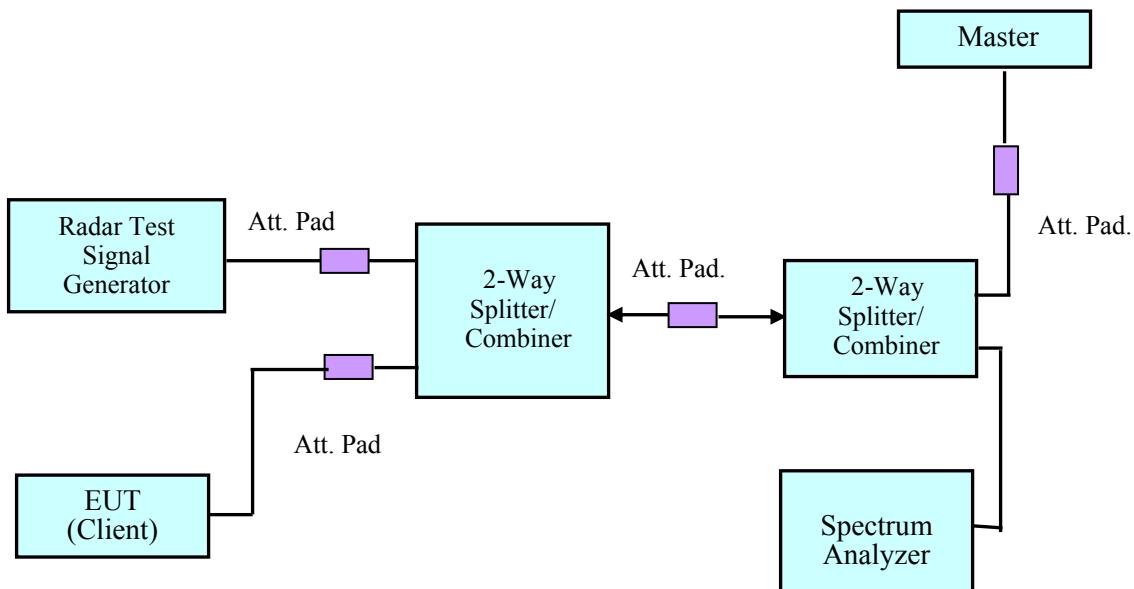
Setup for Client with injection at the Master
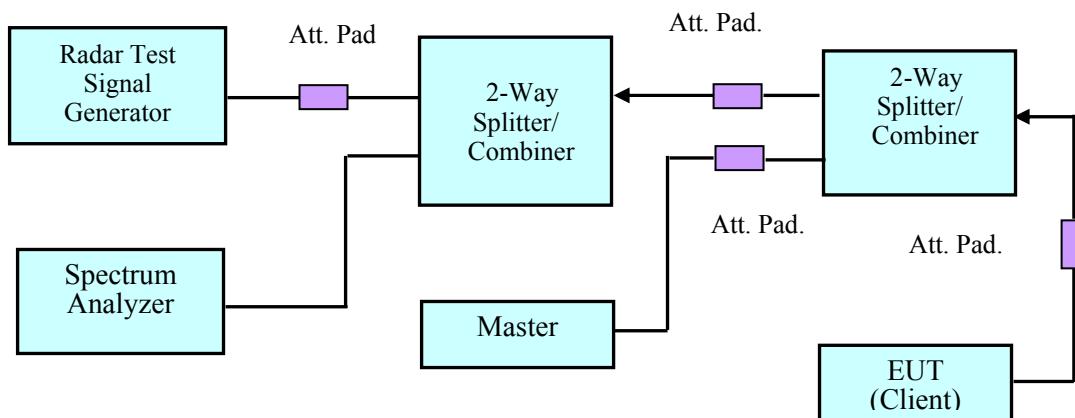
Setup for Client with injection at the Client

4.5 Radiated Method

Client — Antenna

Spectrum Analyzer

Antenna

Radar Test Signal Generator — Antenna

Antenna

Antenna

Master

D
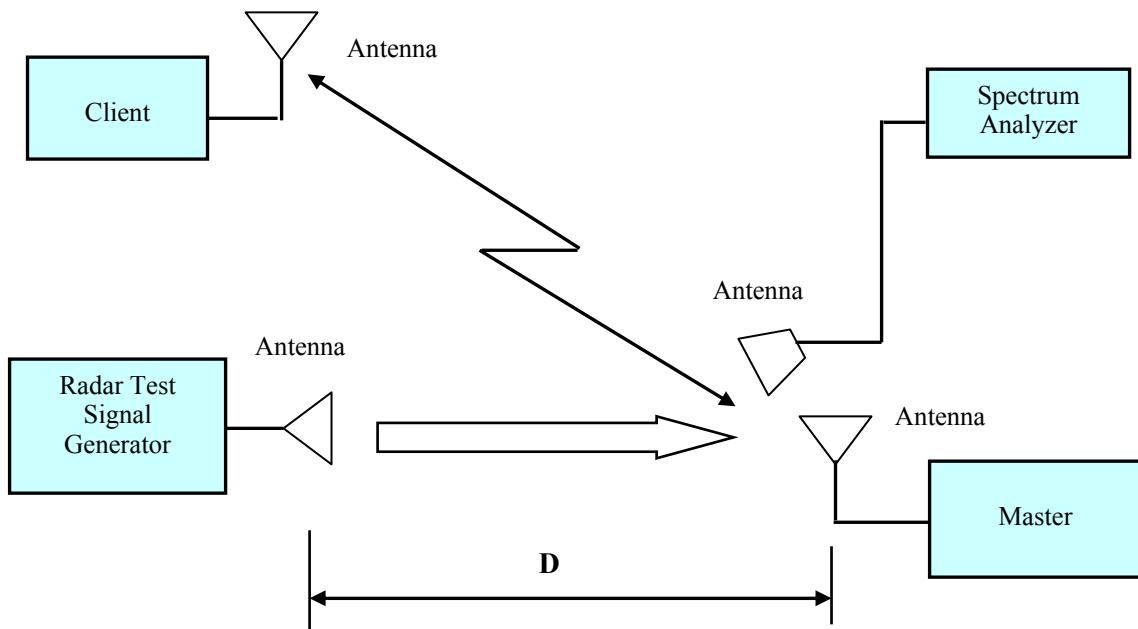
4.6 Test Procedure

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

5 Test Results

5.1 Description of EUT

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

The rated output power of EUT is ≥23 dBm (EIRP), Therefore the required interference threshold level is -62 dBm, the required radiated threshold at antenna port is -64 dBm.

The calibrated radiated DFS detection threshold level is set to -64 dBm.

WLAN traffic is generated by streaming the video file TestFile.mpg, this file is used by IP and Frame based systems for loading the test channel during the In-service compliance testing of the U-NII device. The file is streamed from the Access Point to the Client in full motion video mode using the media player with the V2.61 Codec package.

The EUT will not work on 5600-5650 MHz band.

5.2 Test Equipment List and Details

Manufacturer	Equipment Description	Model Number	S/N	Calibration Date
National Instruments	NI PXI-1042 8-Slot chassis	PXI-1042	V08X01EE1	N/A
National Instruments	Arbitrary Waveform Generator	PXI-5421	N/A	N/A
National Instruments	RF Upconverter	PXI-5610	N/A	N/A
ASCOR	Upconverter	AS-7206	N/A	N/A
Agilent	Spectrum Analyzer	E4440A	MY44303352	2012-10-16
A.R.A.	Antenna Horn	DRG-118/A	1132	2013-01-29
EMCO	Antenna Horn	3115	9511-4627	2012-10-17
Mini-Circuits	Splitter/Combiner	2FSC-2-10G	0349	N/A
Narda	Splitter/Combiner	4326B-2	03514	N/A
Midwest	Attenuator	290-30	N/A	N/A
Mini-Circuits	Attenuator	BW-S30W2	N/A	N/A
HP	Amplifier	8449B	3147A00400	2013-02-04

Statement of Traceability: BACL Corp. attests that all calibrations have been performed per the A2LA requirements, traceable to the NIST.

5.3   Radar Waveform Calibration
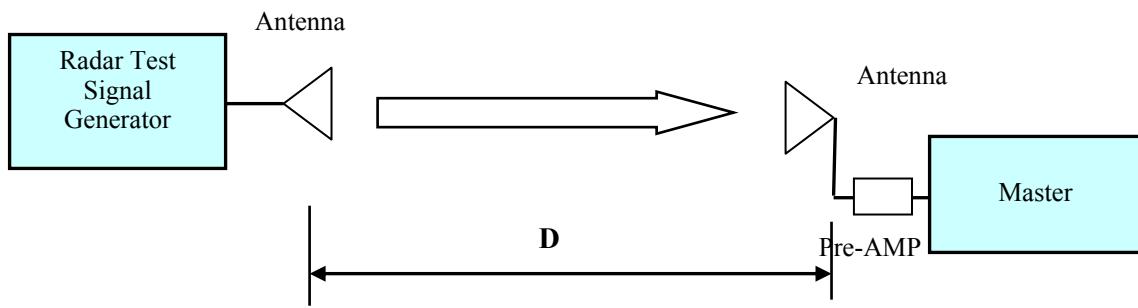
Radiated Calibration Setup Block Diagram

5.4   Test Environmental Conditions

Temperature:	28 °C
Relative Humidity:	43 %
ATM Pressure:	101.6 kpar

Testing performed by Ning Ma on 2013-04-29 at DFS testing site.

Plots of Radar Waveforms

5280 MHz

Radar Type 1
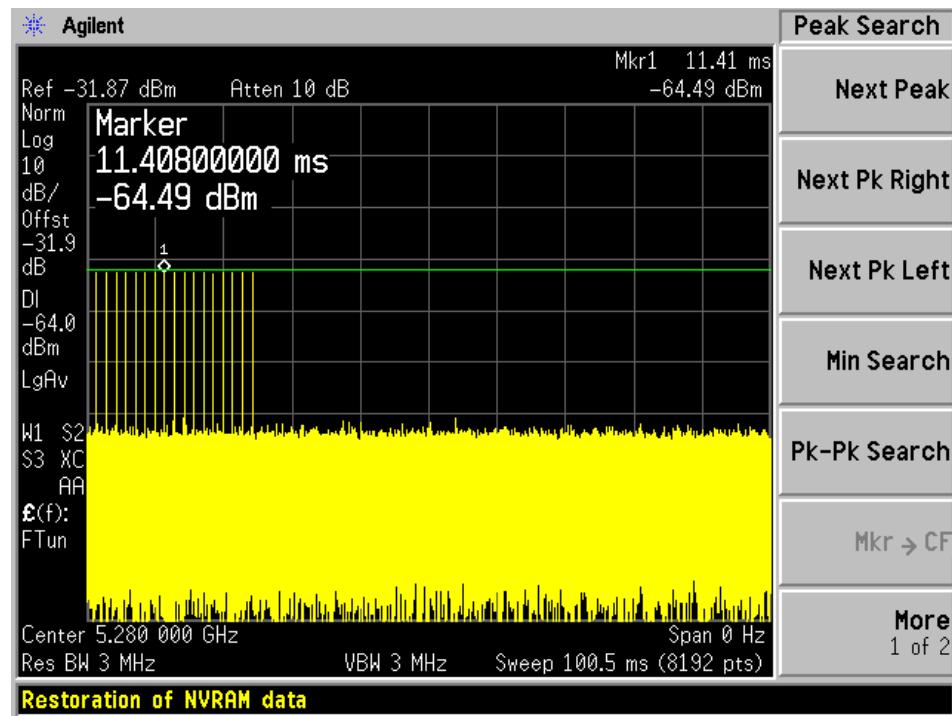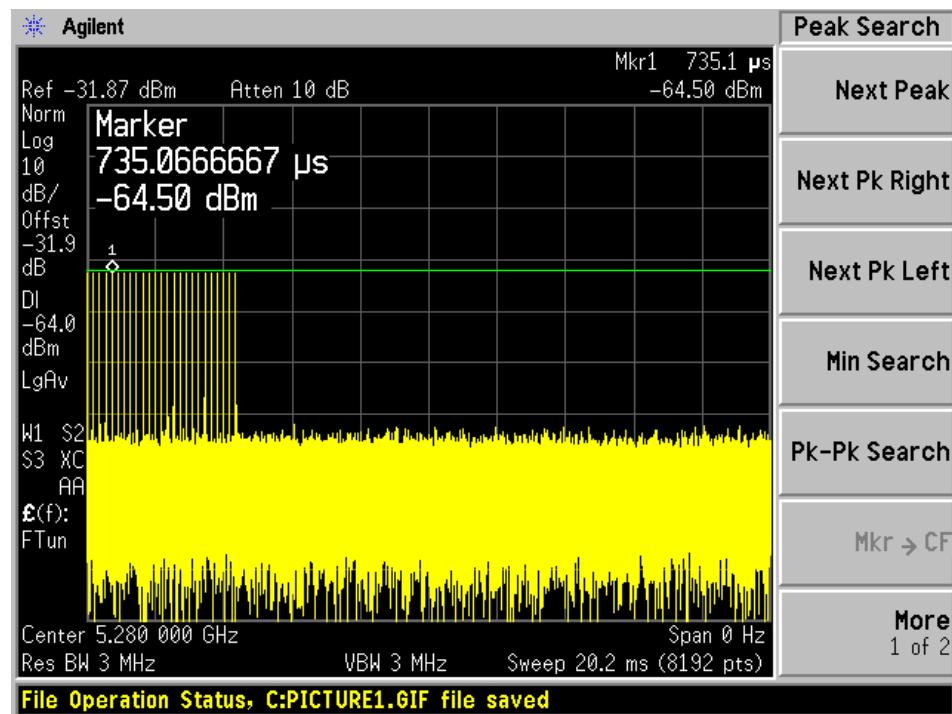
Radar Type 2
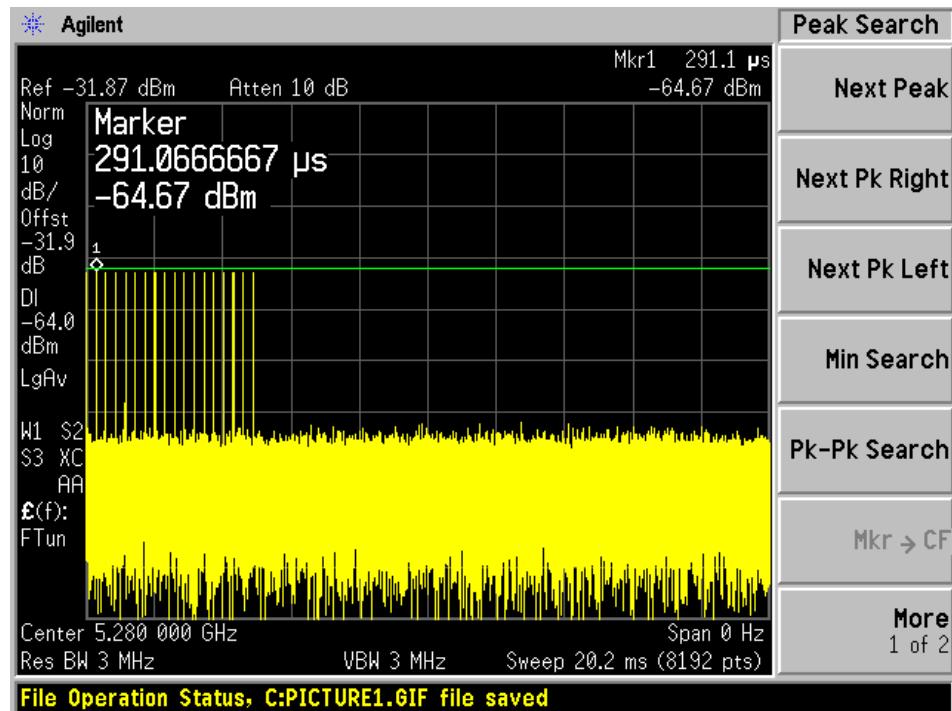
Radar Type 3
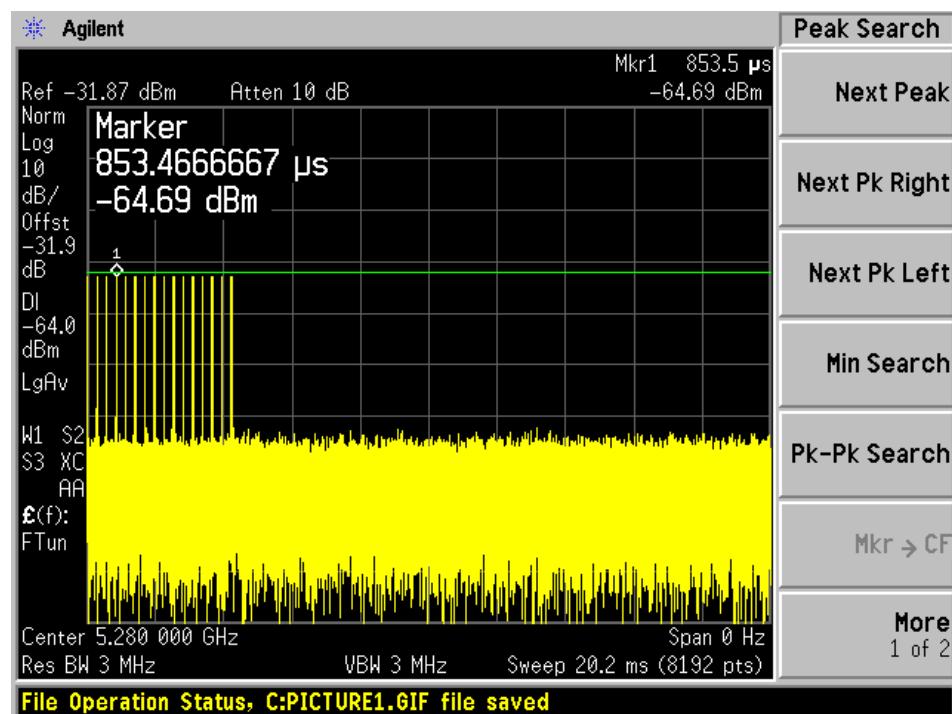
Radar Type 4
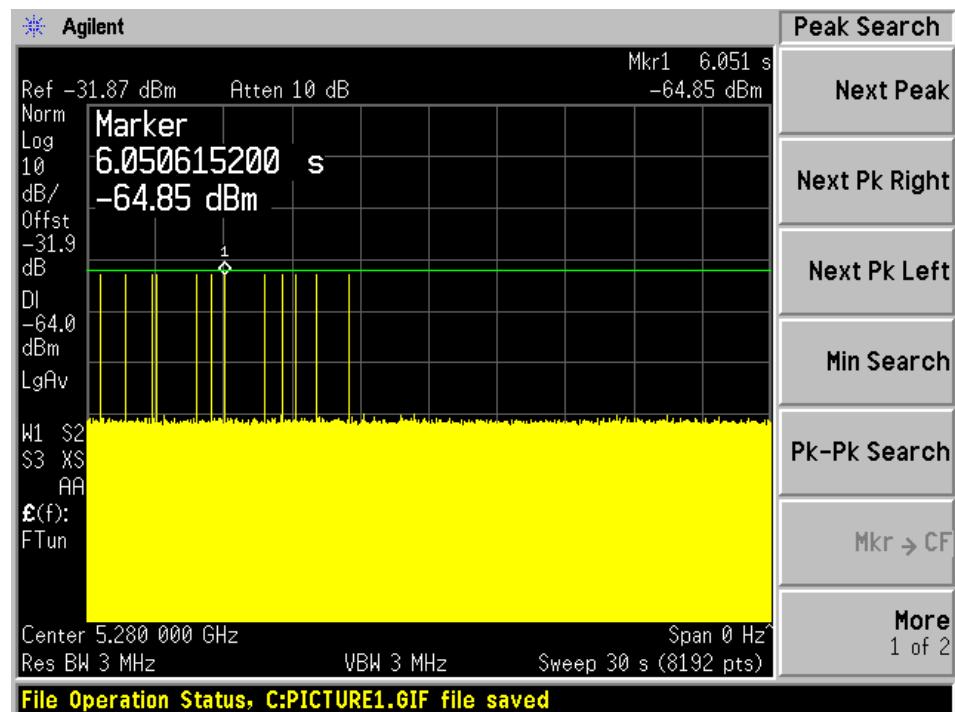
Radar Type 5
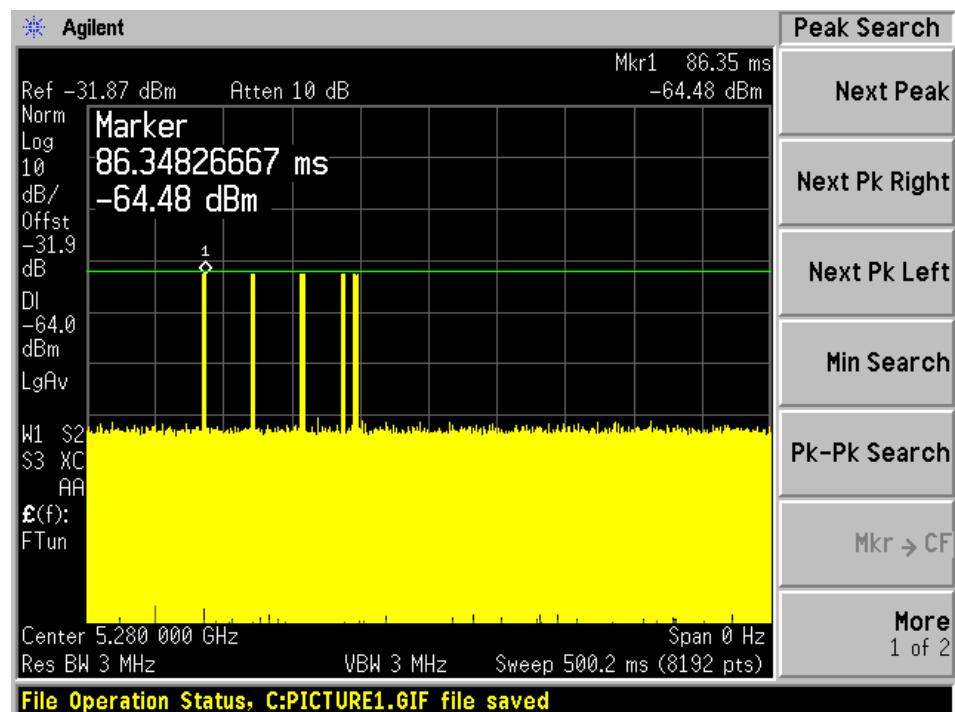
Radar Type 6

5580 MHz

Radar Type 1
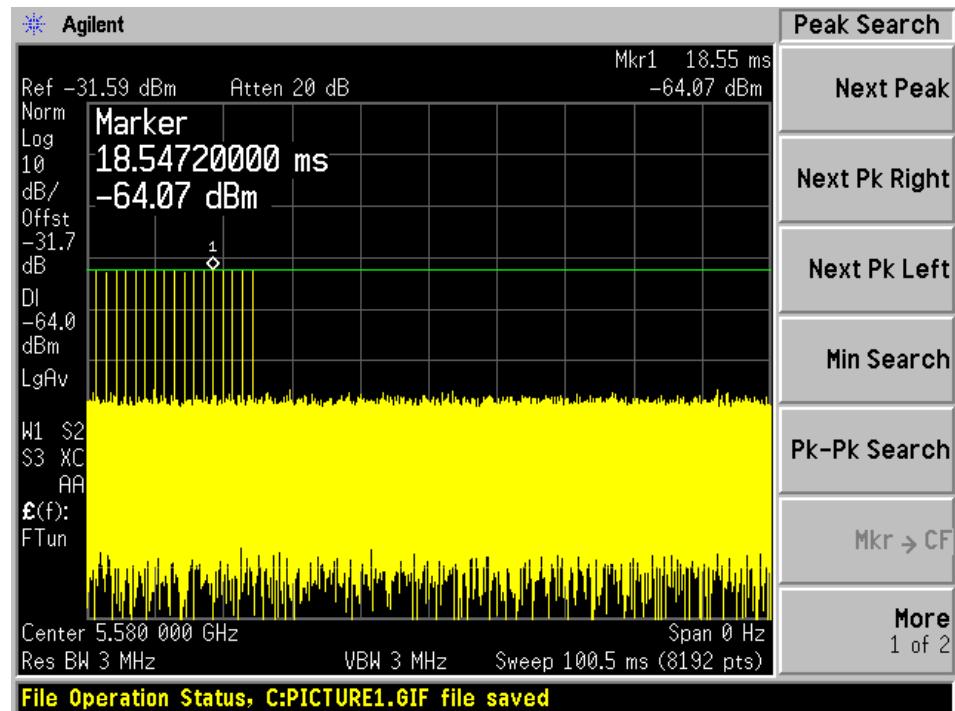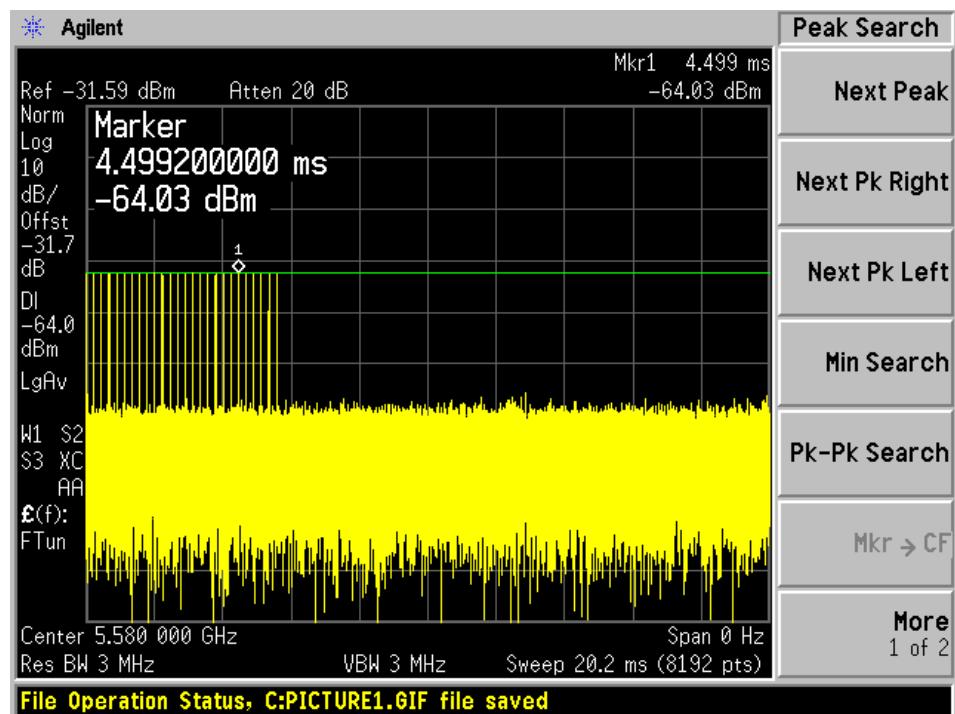
Radar Type 2
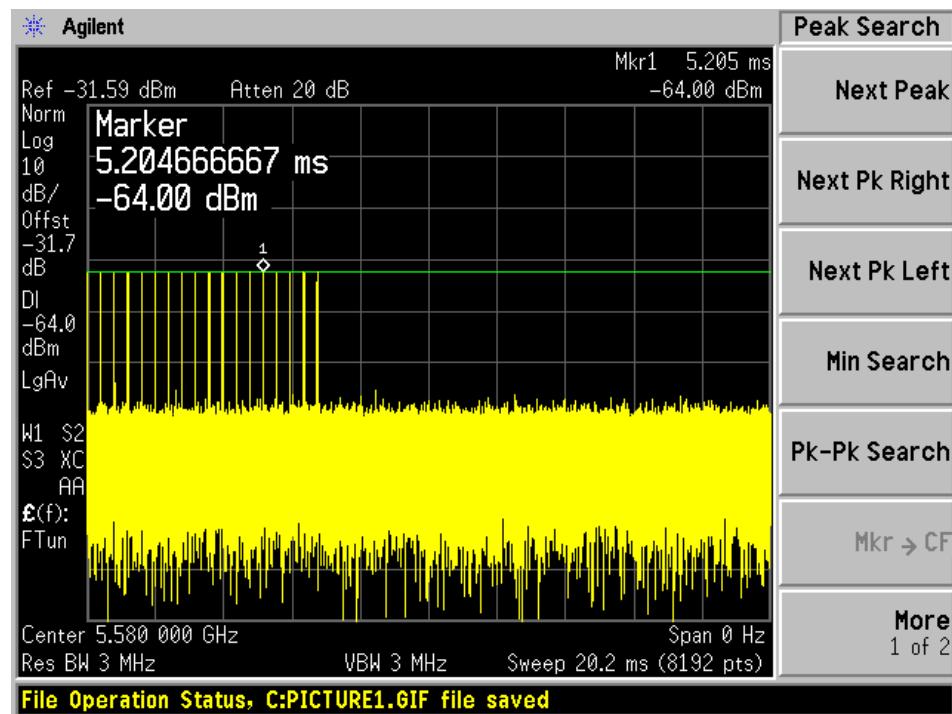
Radar Type 3
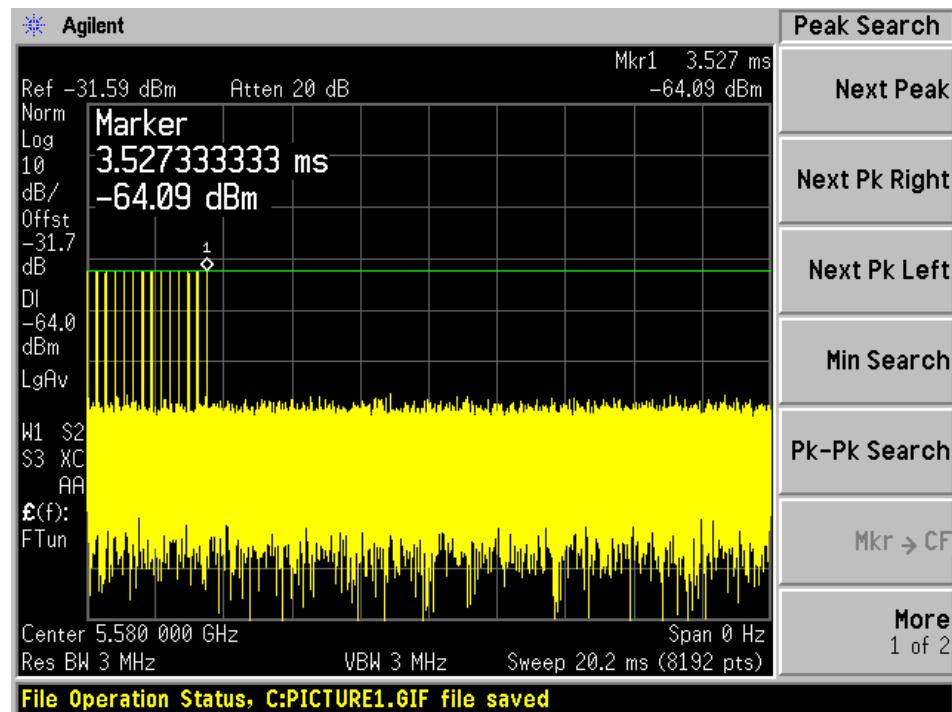
Radar Type 4
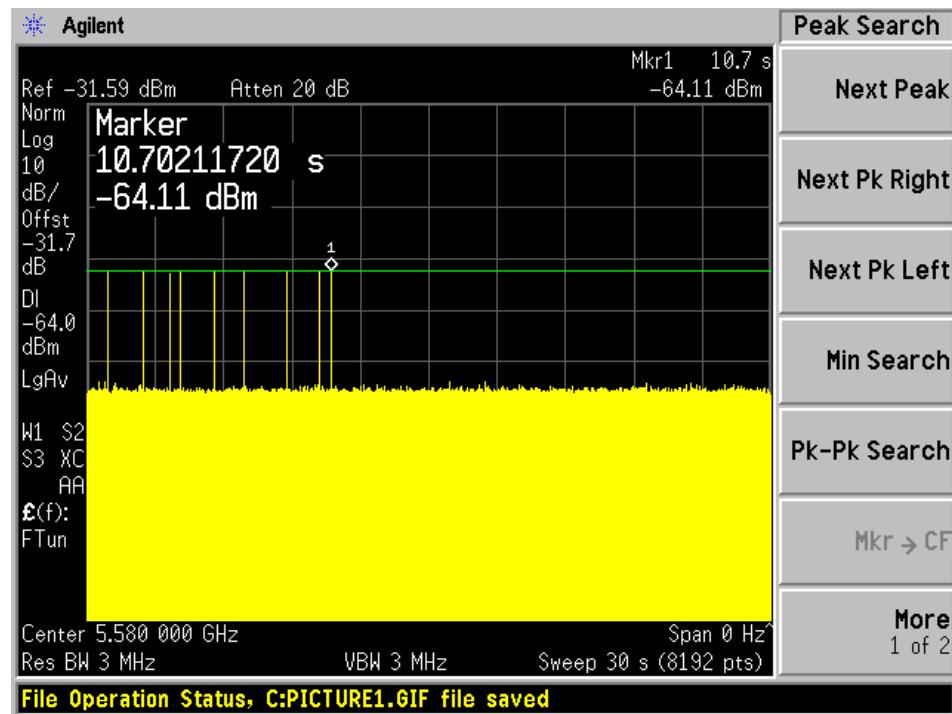
Radar Type 5

Radar Type 6
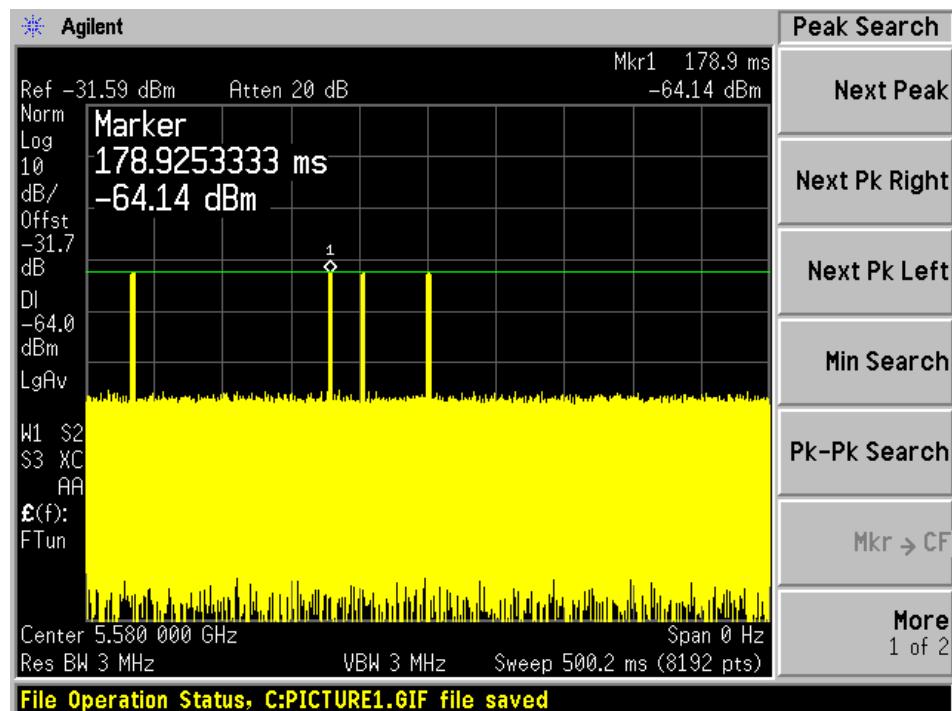
6   Channel Availability Check Time (CAC)

6.1   Test Procedure

1) Measure the initial power-up time of EUT.

2) With link established on channel, apply a radar signal within 0~6 seconds after the initial power-up period; monitor the transmissions on channel from the spectrum analyzer.

3) Reboot EUT, with a link established on channel, apply a radar signal within 54~60 seconds after the initial power-up period, and monitor the transmission on channel from the spectrum analyzer.

EUT Initial power-up Cycle Time

5280 MHz and 5580 MHz Bandwidth 20 MHz

EUT initial Power-up cycle (Second)
27

5270 MHz and 5550 MHz Bandwidth 40 MHz

EUT initial Power-up cycle (Second)
27

Results:

Timing of Radar Burst	Spectrum Analyzer Display
No Radar Triggered	Transmission begin after power-up cycle +60 seconds CAC
Within 2 seconds of the CAC starting	No transmission
Within the last 2 seconds of the CAC	No transmission

Please refer to the following plots.

5280 MHz Bandwidth 20 MHz

Plot of without Radar signal applied
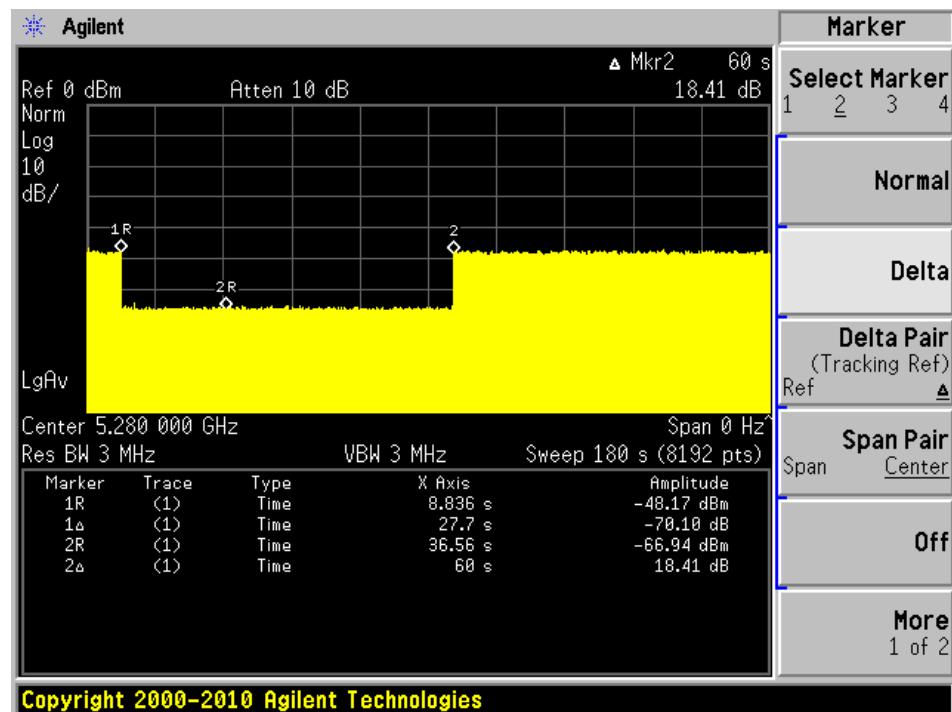
Note: The power-up cycle is 27 seconds.

Plot of Radar signal applied within 2 seconds of start of CAC
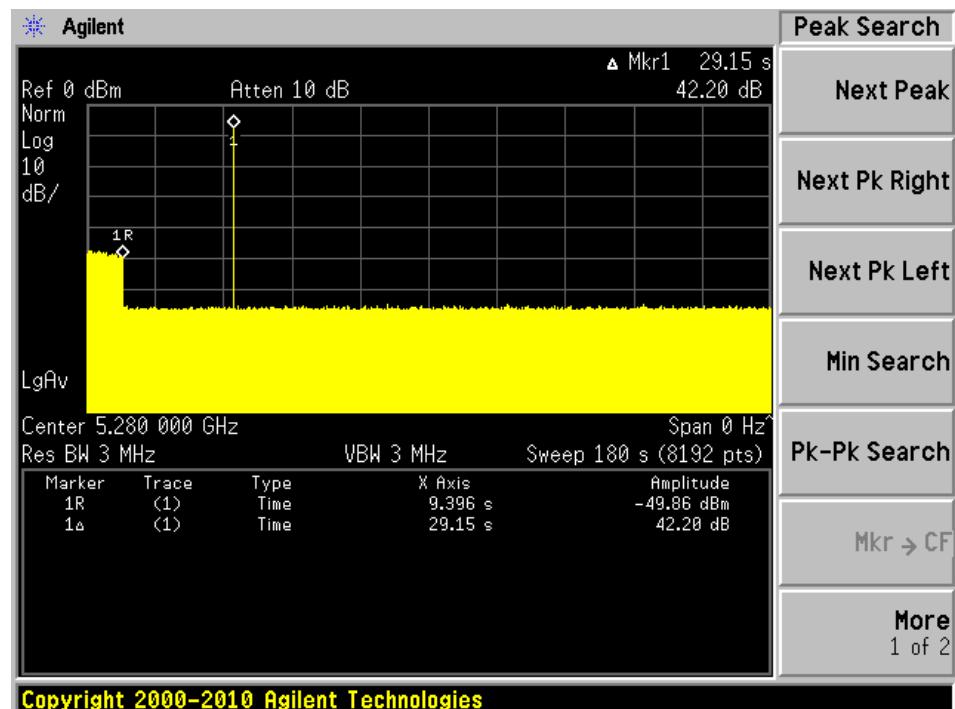
No transmissions found after radar signal applied.

Plot of Radar signal applied at the end of 2 seconds of CAC
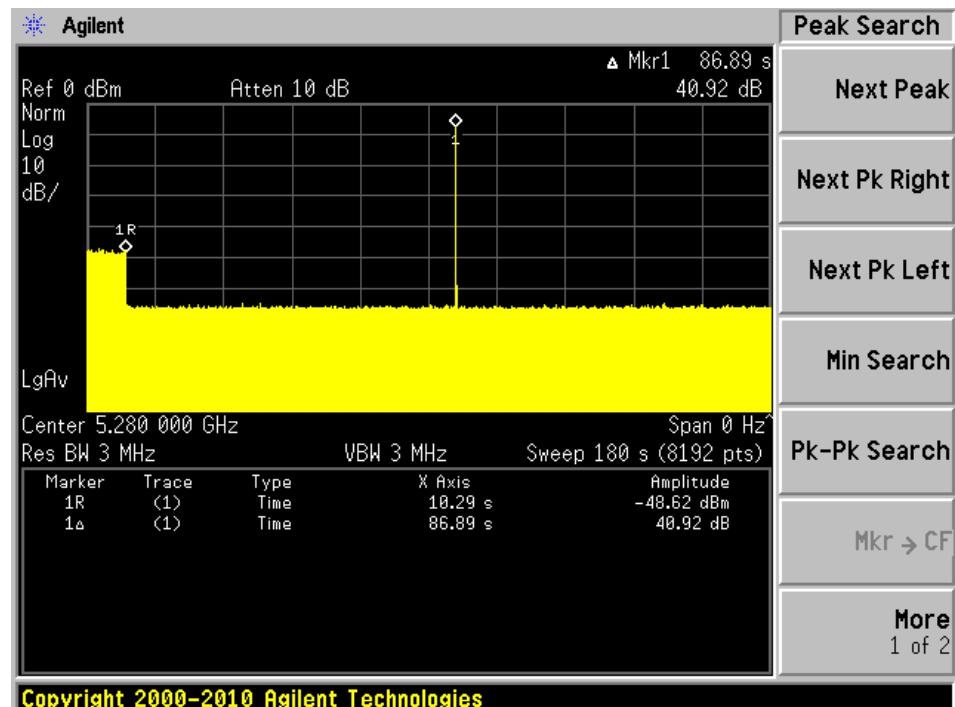
No transmissions found after radar signal applied.

5580 MHz Bandwidth 20 MHz
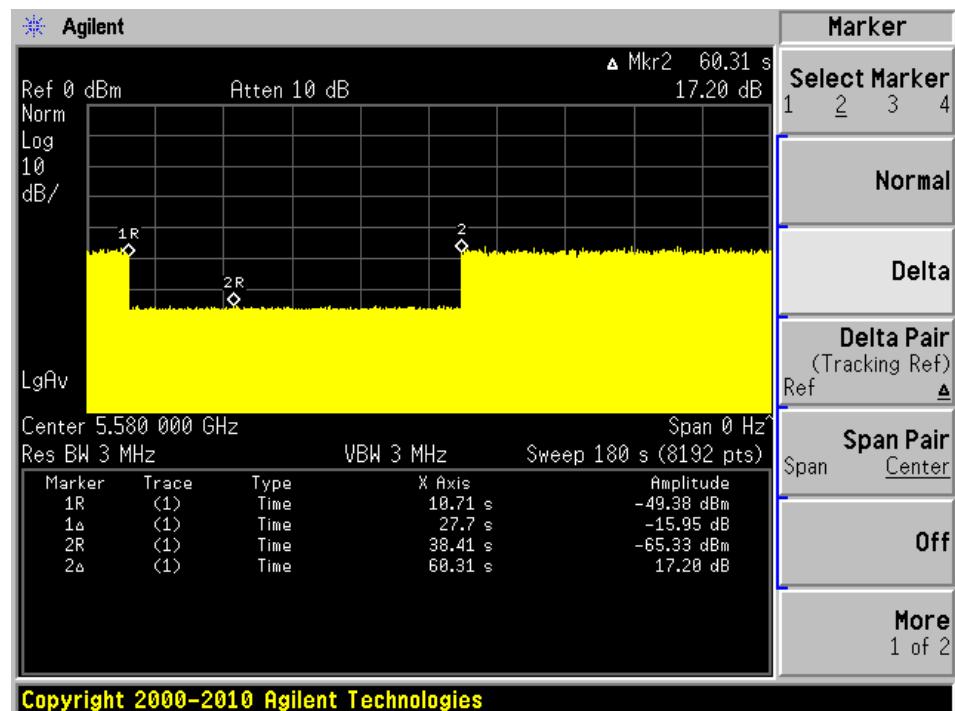
Plot of without Radar signal applied

Note: The power-up cycle is 27 seconds.

Plot of Radar signal applied within 2 seconds of start of CAC
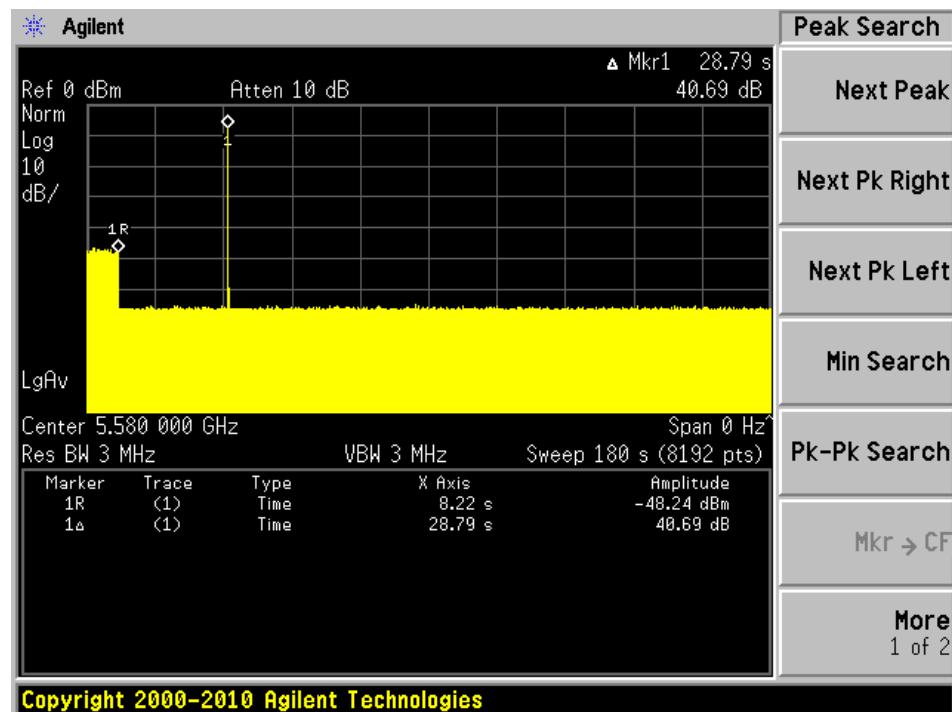
No transmissions found after radar signal applied.

Plot of Radar signal applied at the end of 2 seconds of CAC
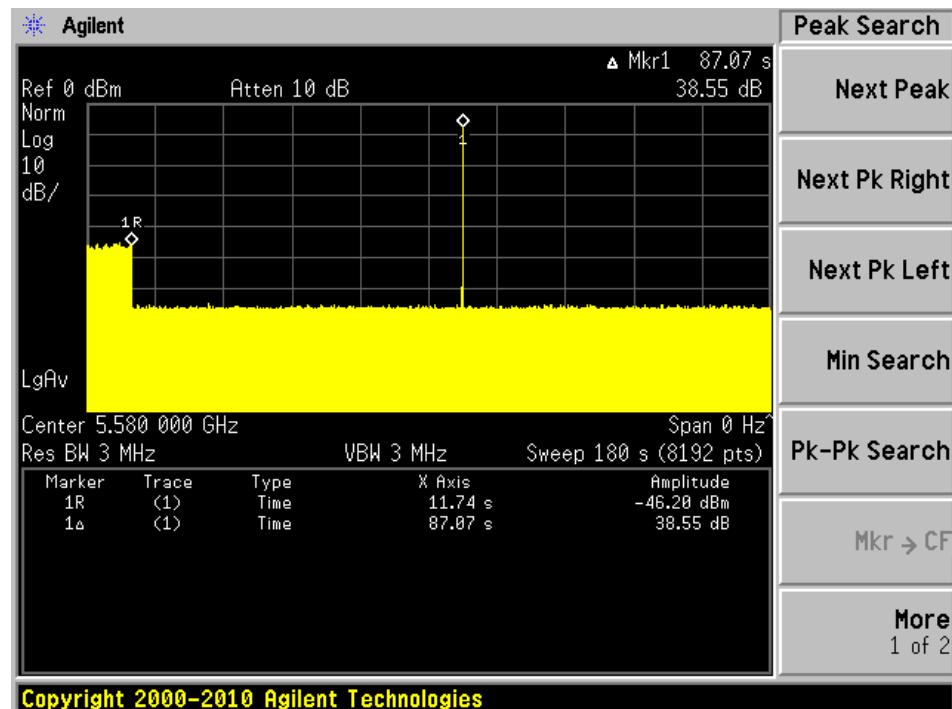
No transmissions found after radar signal applied.

5270 MHz Bandwidth 40 MHz
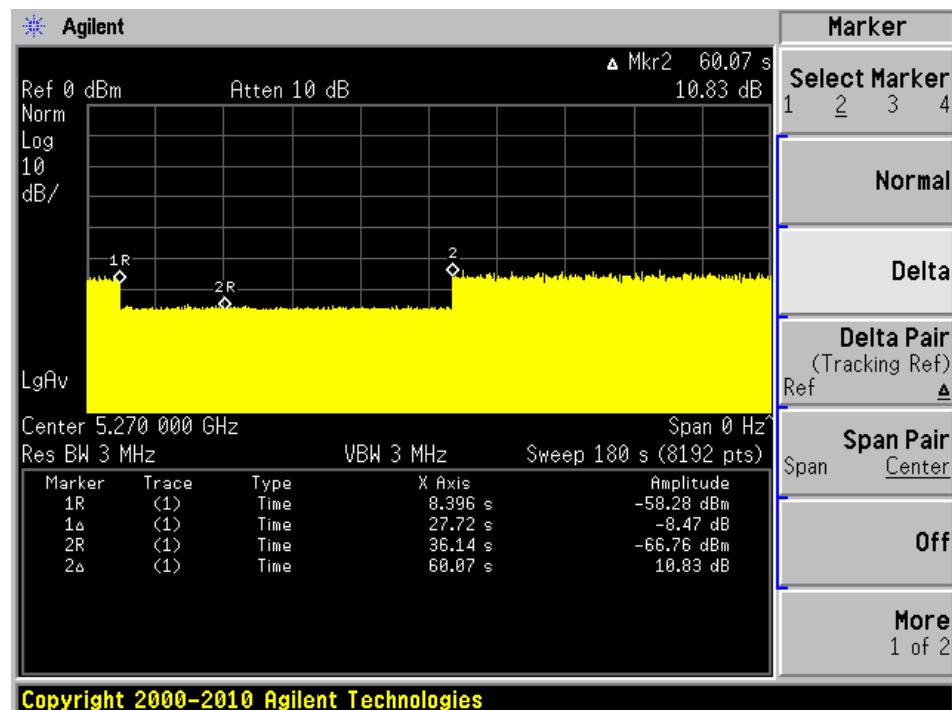
Plot of without Radar signal applied

Note: The power-up cycle is 27 seconds.

Plot of Radar signal applied within 2 seconds of start of CAC
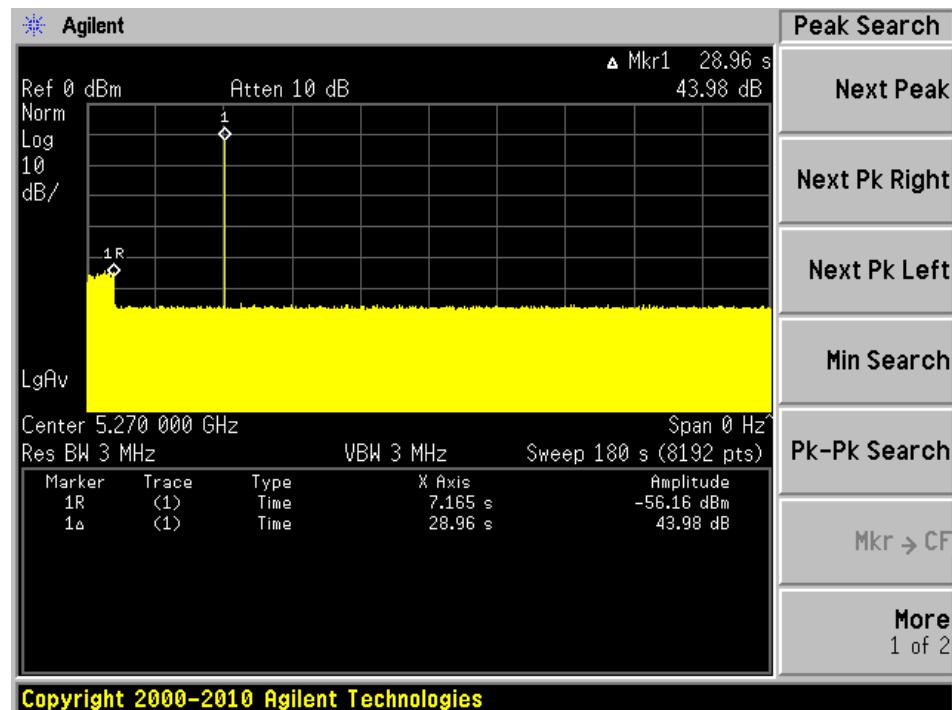
No transmissions found after radar signal applied.

Plot of Radar signal applied at the end of 2 seconds of CAC
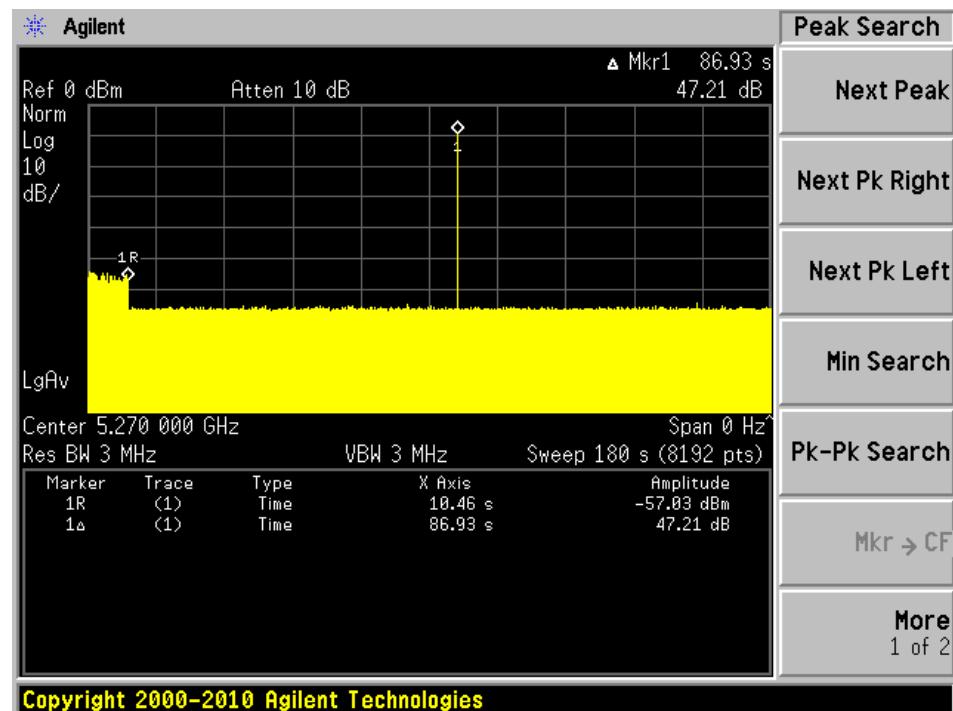
No transmissions found after radar signal applied.

5550 MHz Bandwidth 40 MHz
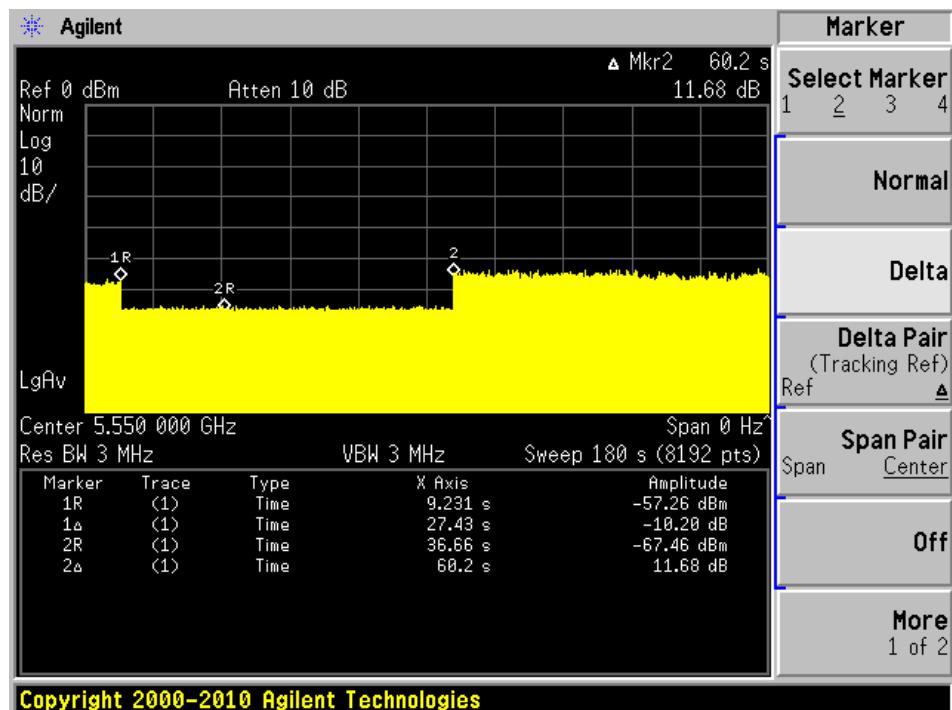
Plot of without Radar signal applied

Note: The power-up cycle is 27 seconds.

Plot of Radar signal applied within 2 seconds of start of CAC
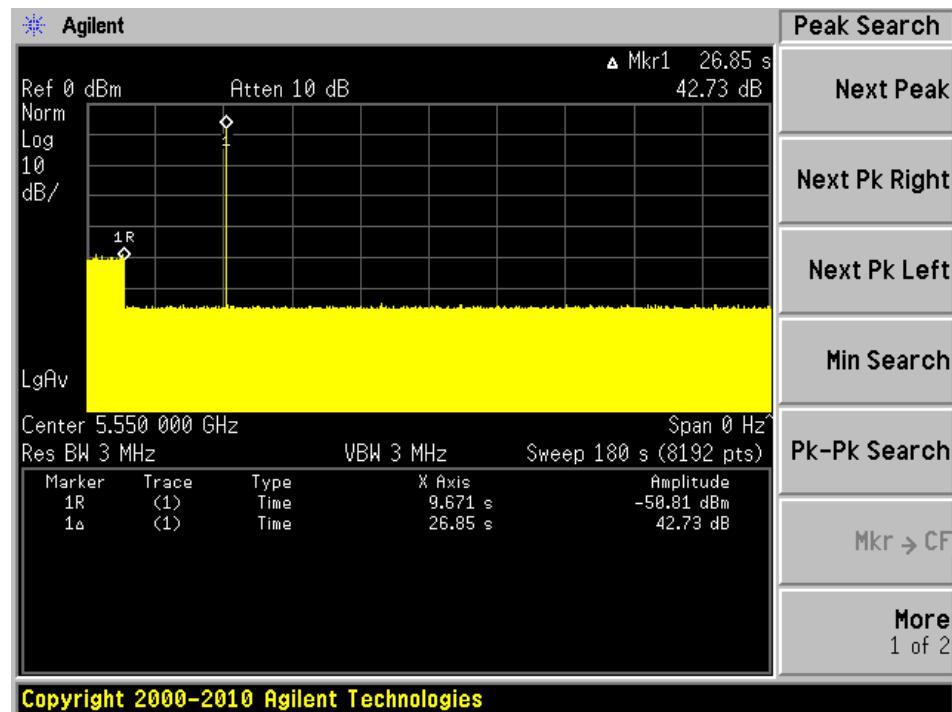
No transmissions found after radar signal applied.

Plot of Radar signal applied at the end of 2 seconds of CAC
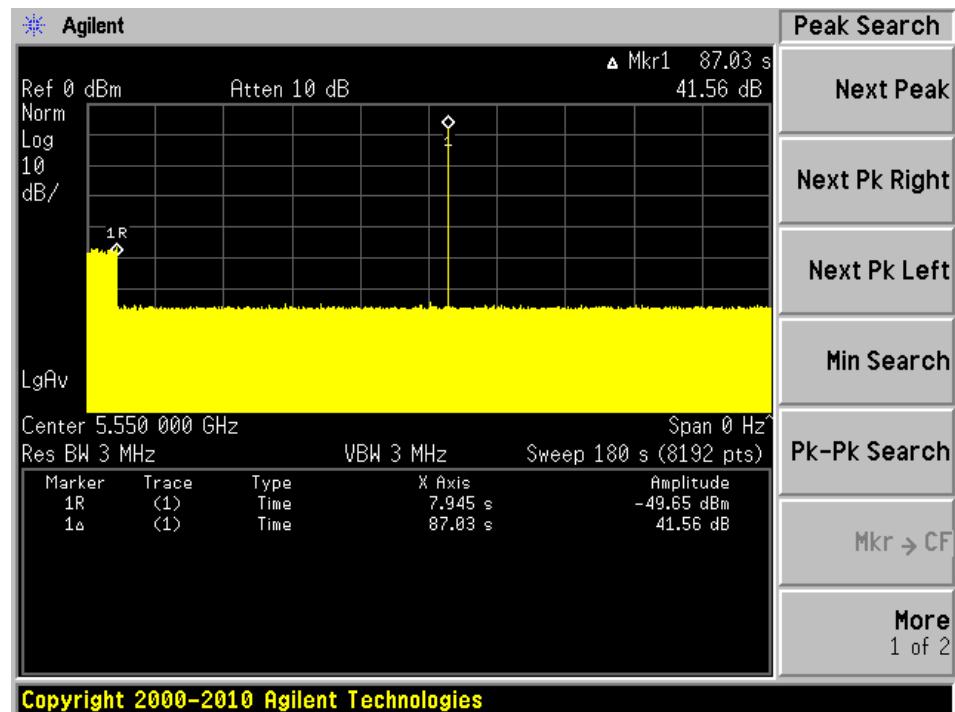
No transmissions found after radar signal applied.

7   Channel Move Time and Channel Closing Transmission Time

7.1   Test Procedure

Perform one of the type1 to type 4 short pulse radar waveform, BACL use type 3 radar signals, repeat using a long pulse radar type5 waveform.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time = N * Dwell Time

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

7.2   Test Results

Frequency (MHz)	Bandwidth (MHz)	Radar Type	Results
5280	20	Type 3	Compliant
		Type 5	Compliant
5580	20	Type 3	Compliant
		Type 5	Compliant
5270	40	Type 3	Compliant
		Type 5	Compliant
5550	40	Type 3	Compliant
		Type 5	Compliant

Please refer to the following tables and plots.

5280 MHz Bandwidth 20 MHz
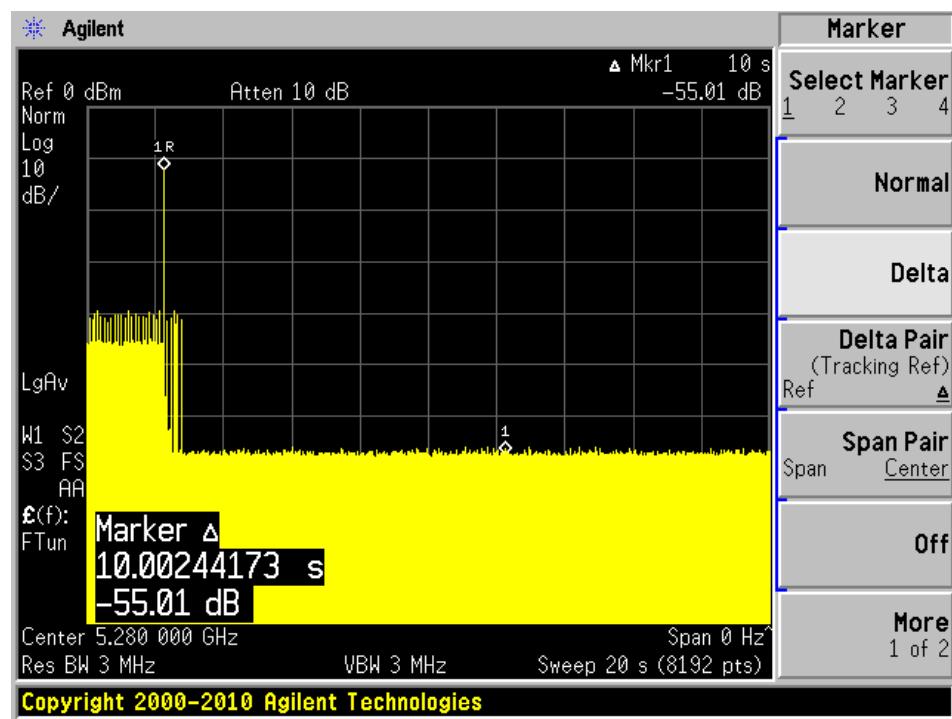
Type 3 radar channel move time result:

Type3 radar channel closing transmission time result:

Aggregate Transmission Time (ms)	Limit (ms)	Margin (ms)
9.766	60	50.234
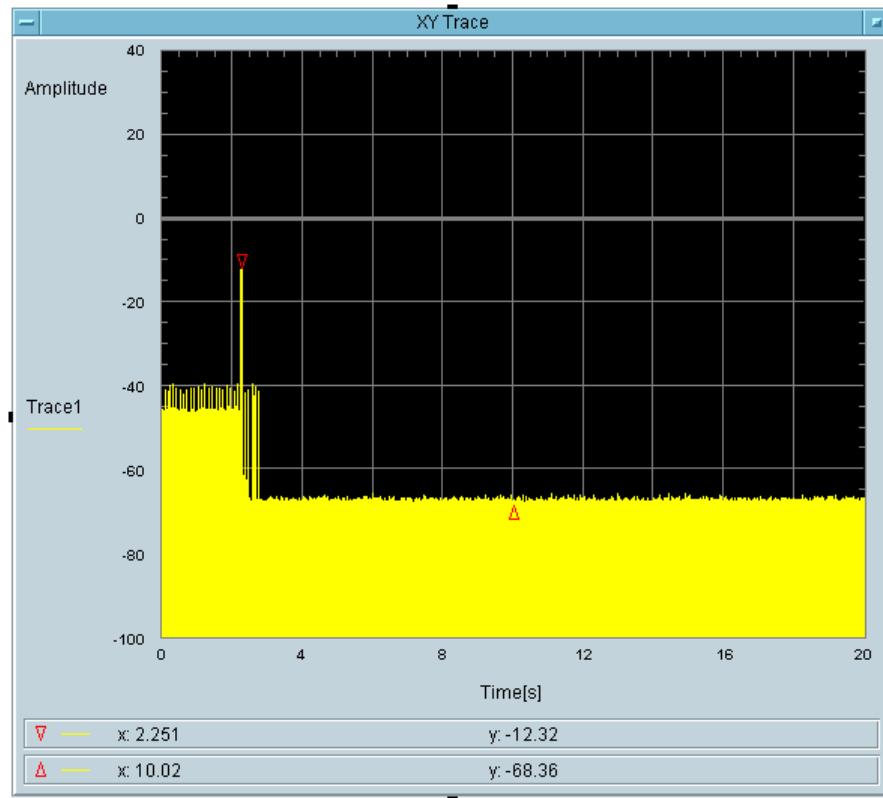
Type 5 radar channel move time result:

The traffic ceases period to the end of the radar waveform, therefore it also ceases period to 10 seconds after of the end of the radar waveform.

5580 MHz Bandwidth 20 MHz
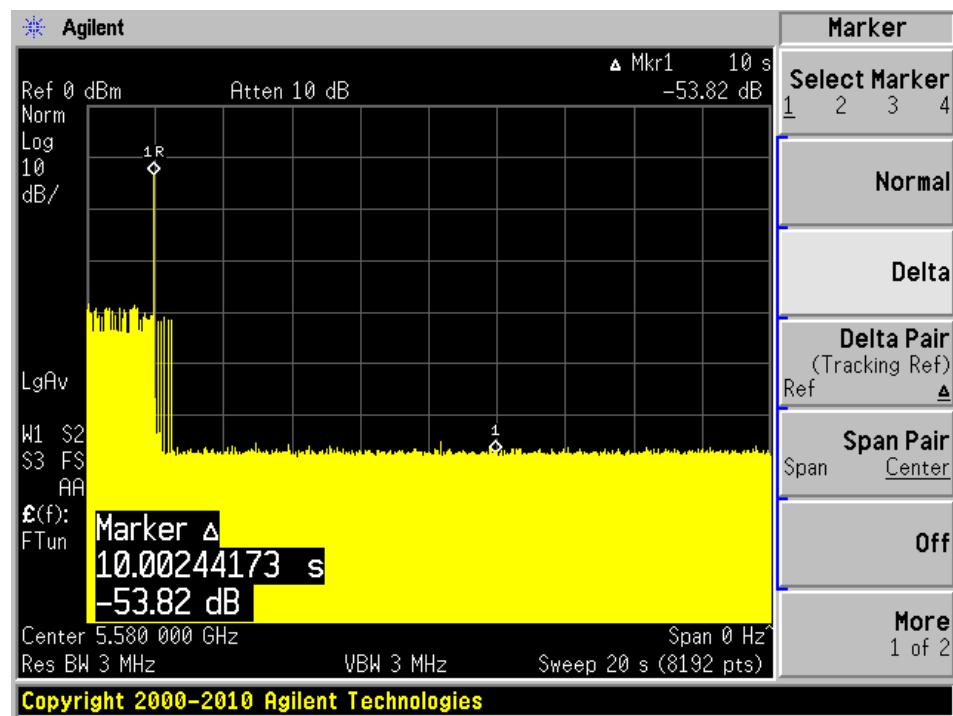
Type 3 radar channel move time result:

Type3 radar channel closing transmission time result:

Aggregate Transmission Time (ms)	Limit (ms)	Margin (ms)
9.766	60	50.234
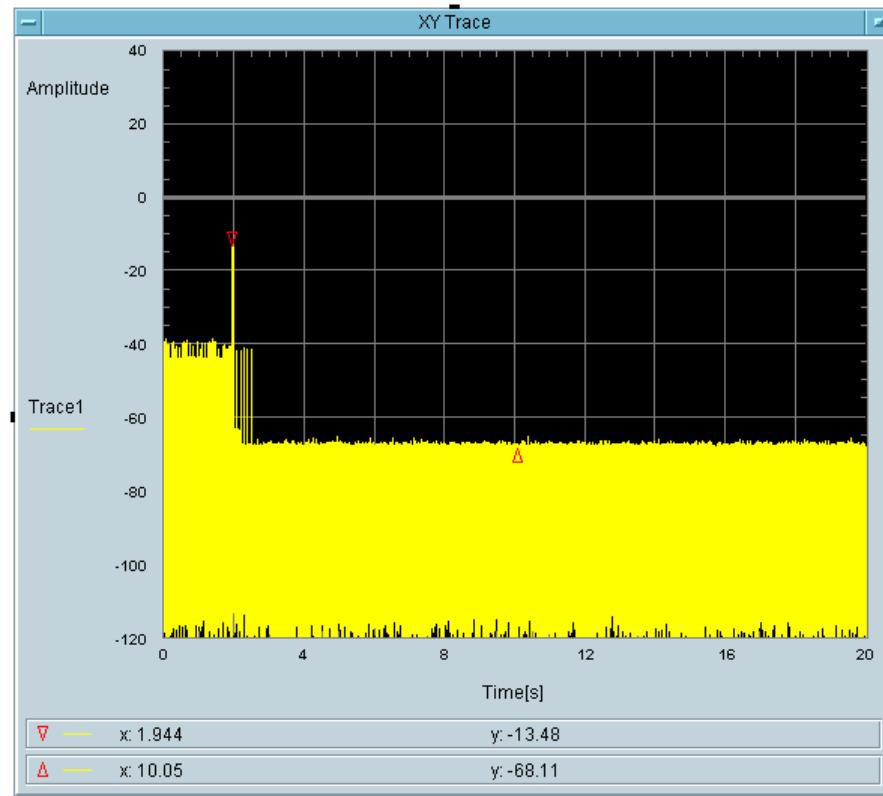
Type 5 radar channel move time result:

The traffic ceases period to the end of the radar waveform, therefore it also ceases period to 10 seconds after of the end of the radar waveform.

5270 MHz Bandwidth 40 MHz
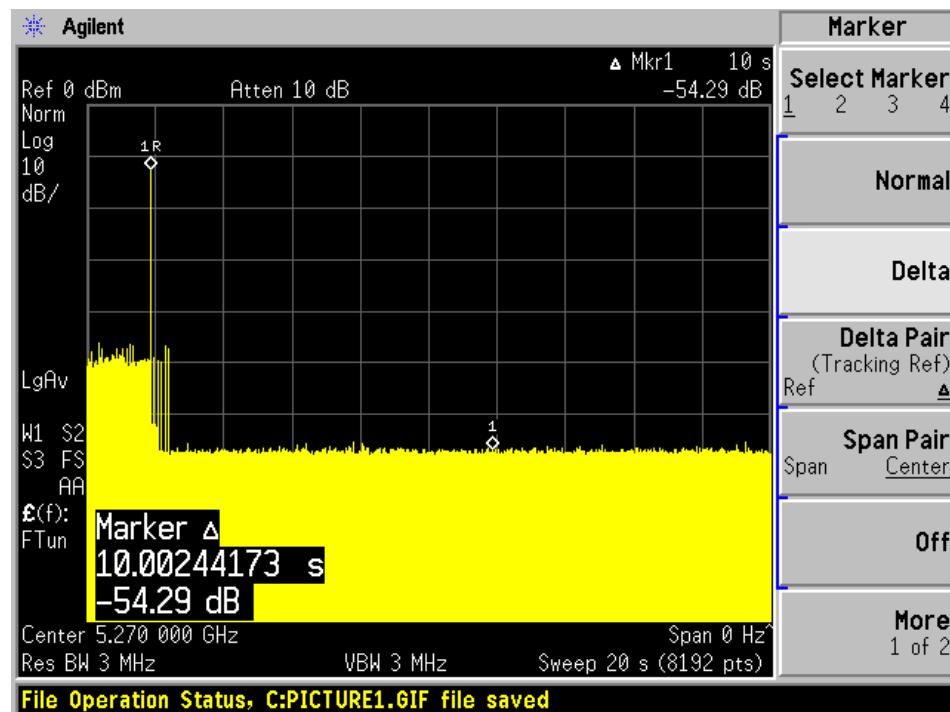
Type 3 radar channel move time result:

Type3 radar channel closing transmission time result:

Aggregate Transmission Time (ms)	Limit (ms)	Margin (ms)
9.766	60	50.234
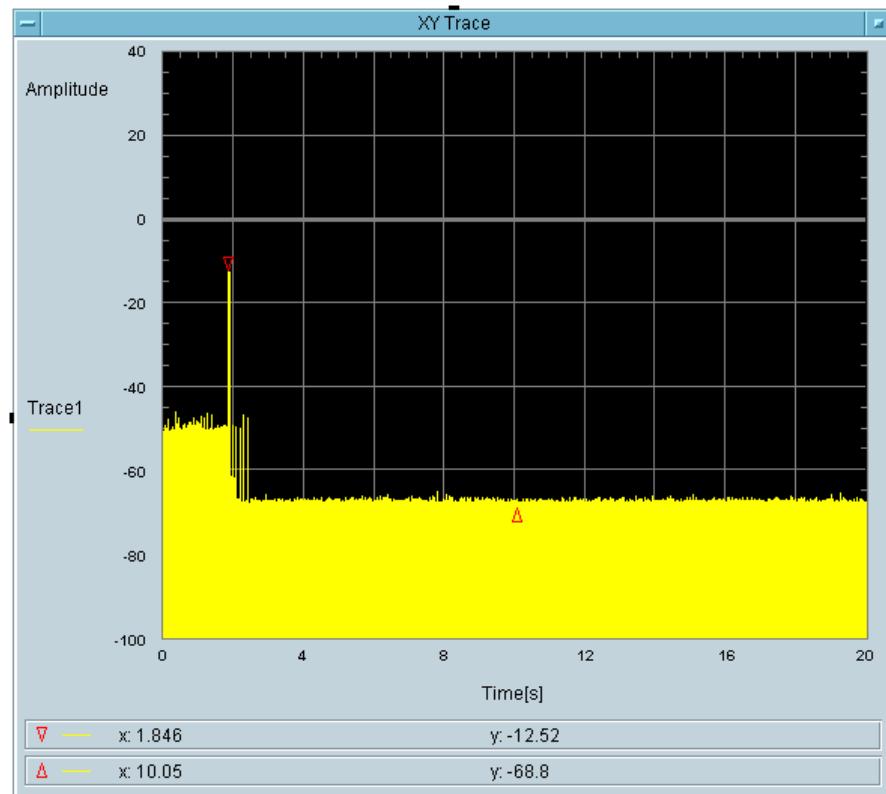
Total On Time [s]	Total On Time After Delay [s]
19.53m	9.766m

Type 5 radar channel move time result:

The traffic ceases period to the end of the radar waveform, therefore it also ceases period to 10 seconds after of the end of the radar waveform.

5550 MHz Bandwidth 40 MHz
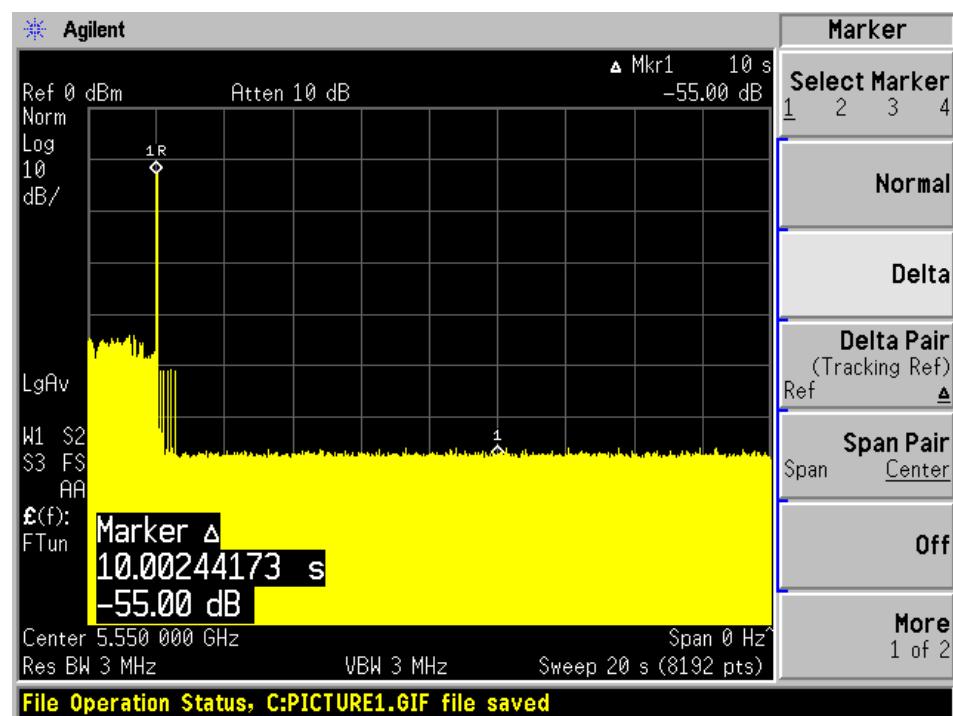
Type 3 radar channel move time result:

Type3 radar channel closing transmission time result:

Aggregate Transmission Time (ms)	Limit (ms)	Margin (ms)
9.766	60	50.234
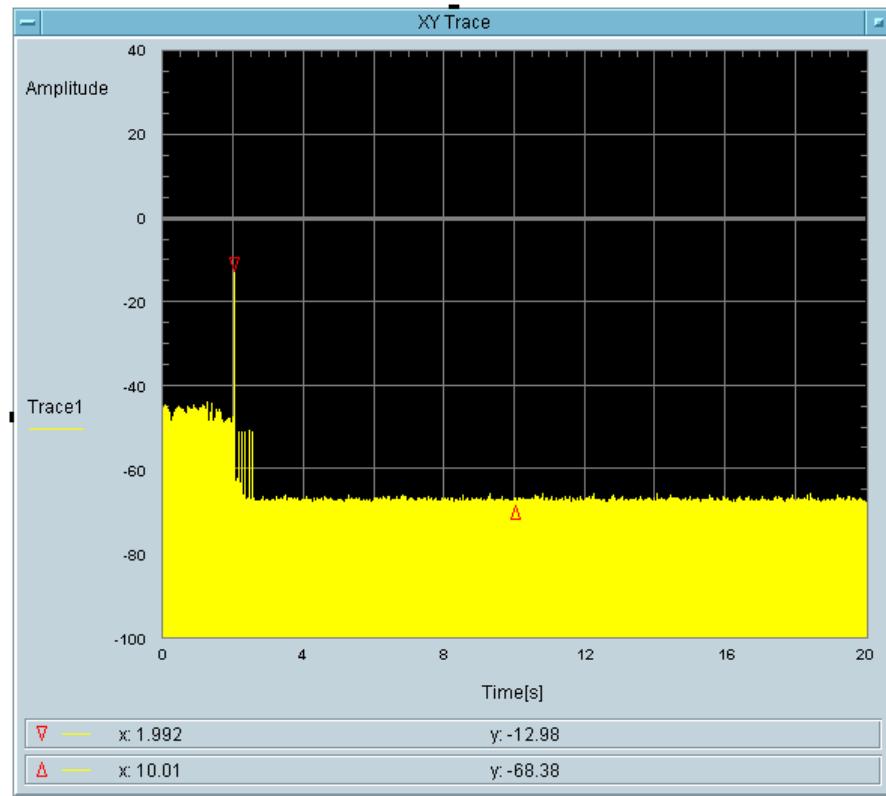
Total On Time [s]	Total On Time After Delay [s]
17.09m	9.766m

Type 5 radar channel move time result:

The traffic ceases period to the end of the radar waveform, therefore it also ceases period to 10 seconds after of the end of the radar waveform.
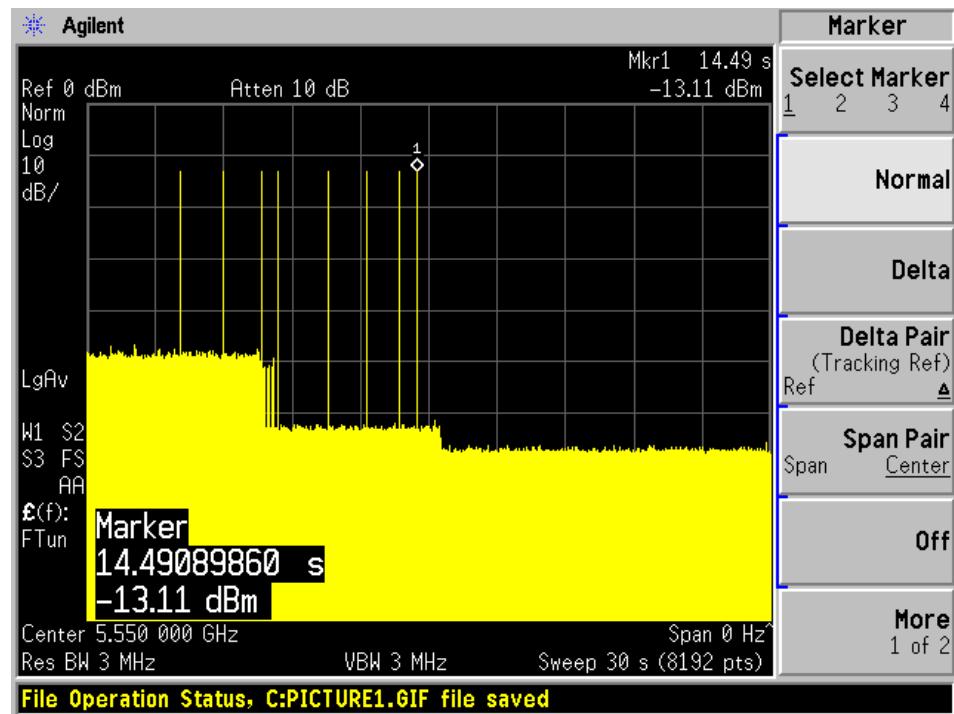
8   Non-Occupancy Period

8.1   Test Procedure

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

8.2   Test Results

Frequency (MHz)	Bandwidth (MHz)	Spectrum Analyzer Display
5280	20	No transmission within 30 minutes
5580	20	No transmission within 30 minutes
5270	40	No transmission within 30 minutes
5550	40	No transmission within 30 minutes

Please refer to the following plots.

5280 MHz Bandwidth 20 MHz
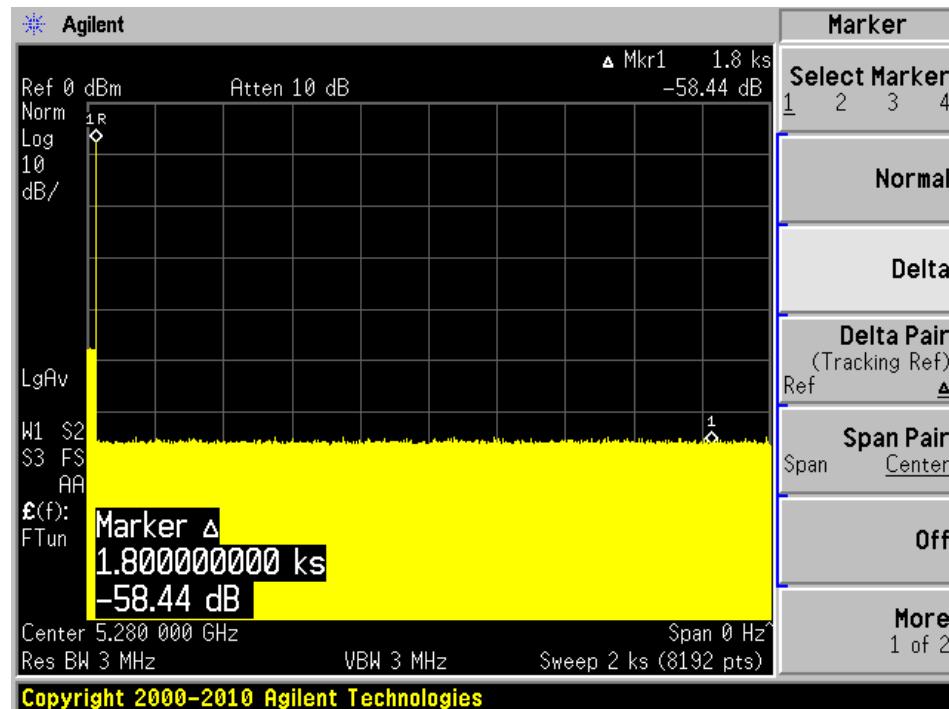
5580 MHz Bandwidth 20 MHz
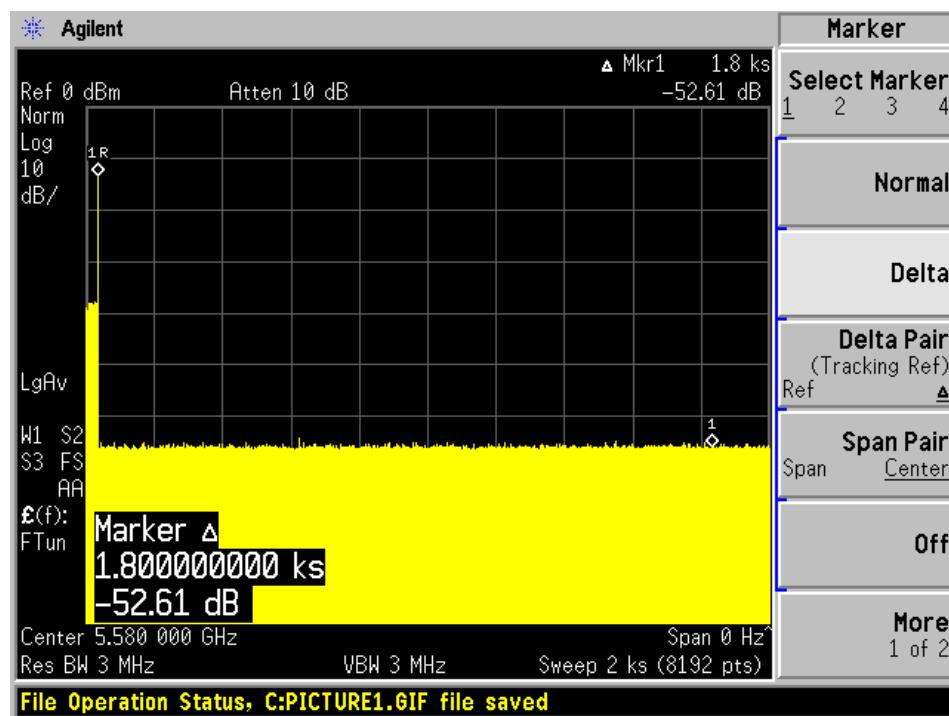
5270 MHz Bandwidth 40 MHz
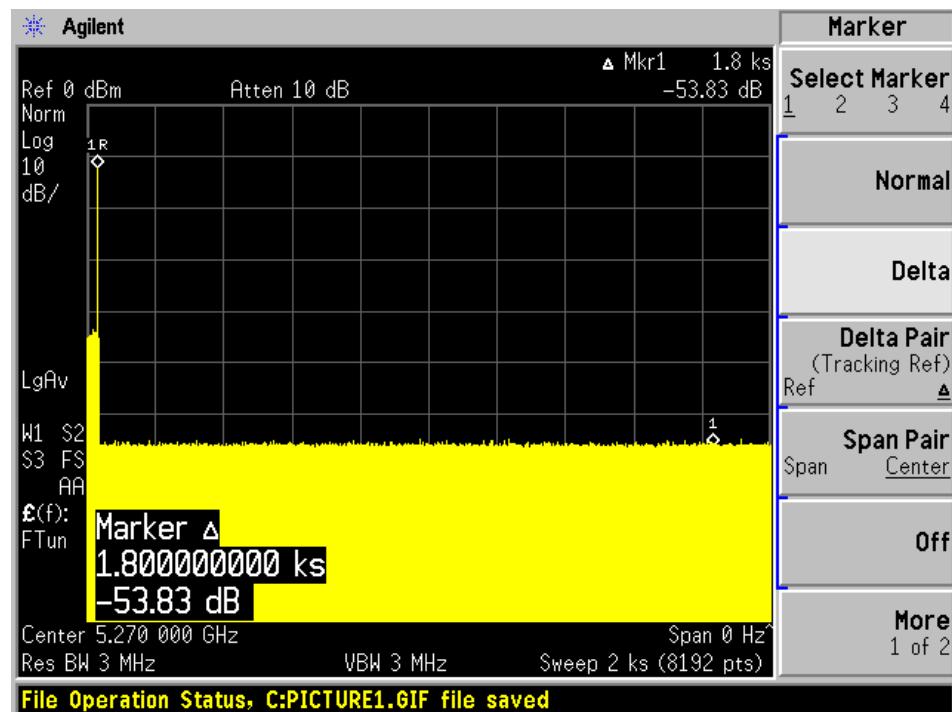
5550 MHz Bandwidth 40 MHz
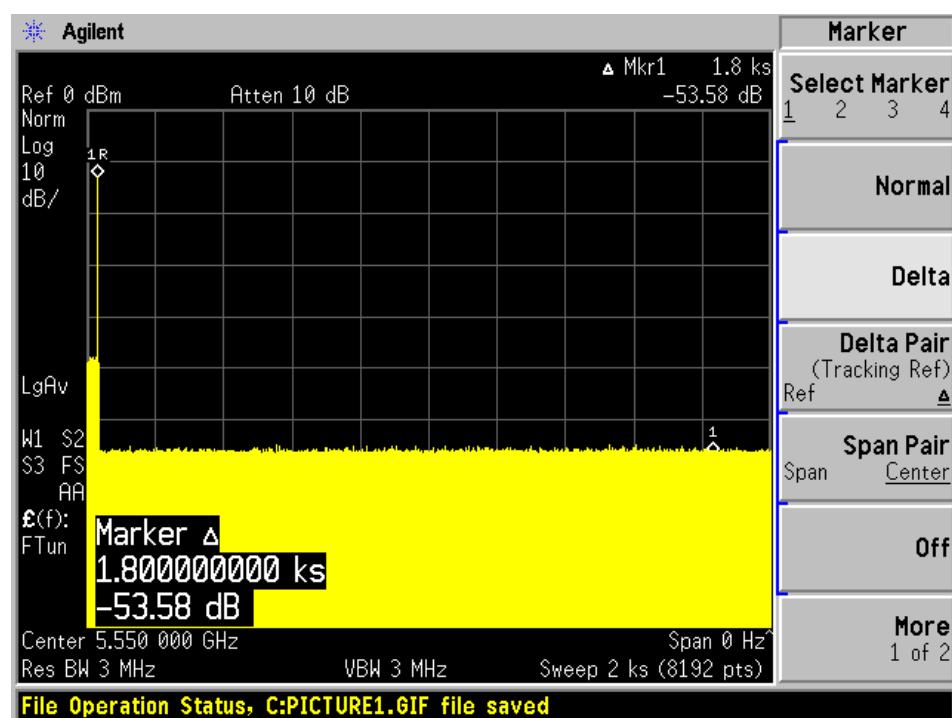
9   Radar Detection

9.1   Detection Bandwidth

Procedure:

Performed with any one of the short pulse radar waveforms (type 1, 2, 3 or 4)

Start with radar generator frequency set to the center of the channel (Fc)
    Perform at least 10 trials and confirm at least 90% detected
Increment radar generator frequency by 1 MHz and repeat
    Perform at least 10 trials and confirm at least 90% detected
Continue incrementing the radar frequency until detection rate falls below 90%

Starting at Fc - 1 MHz, repeat the process, this time decrementing the radar frequency by 1 MHz

F_L is the lowest frequency at which detection was 80% or better
F_H is the highest frequency at which detection was 80% or better

UNII Detection Bandwidth = F_H - F_L

Test Results

Frequency (MHz)	F_L (MHz)	F_H (MHz)	Detection Bandwidth (MHz)	Minimum Limit	Result
5280	5271	5289	18	80%	Compliance
5580	5570	5589	19	80%	Compliance
5270	5250	5290	40	80%	Compliance
5550	5531	5570	39	80%	Compliance

Please refer to the following tables and plots.

Results of Detection Bandwidth:

<table>
<tr><td colspan="12">EUT Frequency = 5280 MHz</td></tr>
<tr><td colspan="12">DFS Detection Trials (1 = Detected, Blank = No Detected)</td></tr>
<tr><td>Radar Frequency (MHz)</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>Detection Rate (%)</td></tr>
<tr><td>5270</td><td>1</td><td>1</td><td>1</td><td>1</td><td>0</td><td>0</td><td>1</td><td>0</td><td>1</td><td>1</td><td>70 %</td></tr>
<tr><td>5271(F_L)</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>100 %</td></tr>
<tr><td>5272</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>100 %</td></tr>
<tr><td>5273</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>100 %</td></tr>
<tr><td>5274</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>100 %</td></tr>
<tr><td>5275</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>0</td><td>1</td><td>1</td><td>1</td><td>1</td><td>90 %</td></tr>
<tr><td>5276</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>100 %</td></tr>
<tr><td>5277</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>100 %</td></tr>
<tr><td>5278</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>100 %</td></tr>
<tr><td>5279</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>100 %</td></tr>
<tr><td>5280(Fc)</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>100 %</td></tr>
<tr><td>5281</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>100 %</td></tr>
<tr><td>5282</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>100 %</td></tr>
<tr><td>5283</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>100 %</td></tr>
<tr><td>5284</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>100 %</td></tr>
<tr><td>5285</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>100 %</td></tr>
<tr><td>5286</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>100 %</td></tr>
<tr><td>5287</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>100 %</td></tr>
<tr><td>5288</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>100 %</td></tr>
<tr><td>5289(F_H)</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>100 %</td></tr>
<tr><td>5290</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0 %</td></tr>
<tr><td colspan="12">Detection Bandwidth = $F_H - F_L$ = 5290-5270 = 22 MHz</td></tr>
<tr><td colspan="9">EUT 99% BW = 18.0661 MHz; 16.5948 * 80% = 14.45288 MHz</td><td colspan="2">Result:</td><td>Pass</td></tr>
</table>

EUT Frequency = 5580 MHz										
DFS Detection Trials (1 = Detected, Blank = No Detected)										
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5569	0	0	0	0	0	0	0	0	0	0	100 %
5570(F$_L$)	1	1	1	1	1	1	1	1	1	1	100 %
5571	1	1	1	1	1	1	1	1	1	1	100 %
5572	1	1	1	1	1	1	1	1	1	1	100 %
5573	1	1	1	1	1	1	1	1	1	1	100 %
5574	1	1	1	1	1	1	1	1	1	1	100 %
5575	1	1	1	1	1	1	1	1	1	1	100 %
5576	1	1	1	1	1	1	1	1	1	1	100 %
5577	1	1	1	1	1	1	1	1	1	1	100 %
5578	1	1	1	1	1	1	1	1	1	1	100 %
5579	1	1	1	1	1	1	1	1	1	1	100 %
5580 (Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5581	1	1	1	1	1	1	1	1	1	1	100 %
5582	1	1	1	1	1	1	1	1	1	1	100 %
5583	1	1	1	1	1	1	1	1	1	1	100 %
5584	1	1	1	1	1	1	1	1	1	1	100 %
5585	1	1	1	1	1	1	1	1	1	1	100 %
5586	1	1	1	1	1	1	1	1	1	1	100 %
5587	1	1	1	1	1	1	1	1	1	1	100 %
5588	1	1	1	1	1	1	1	1	1	1	100 %
5589(F$_H$)	1	1	1	1	1	1	1	1	1	1	100 %
5590	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = $F_H - F_L$ = 5589-5571 = 18 MHz										
EUT 99% BW = 18.1748 MHz; 18.1748 * 80%= 14.53984 **Result:** Pass										

EUT Frequency = 5270 MHz										
DFS Detection Trials (1 = Detected, Blank = 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 %
5252	1	1	1	1	1	1	1	1	1	1	100 %
5254	1	1	1	1	1	1	1	1	1	1	100 %
5256	1	1	1	1	1	1	1	1	1	1	100 %
5258	1	1	1	1	1	1	1	1	1	1	100 %
5260	1	1	1	1	1	1	1	1	1	1	100 %
5262	1	1	1	1	1	1	1	1	1	1	100 %
5264	1	1	1	1	1	1	1	1	1	1	100 %
5266	1	1	1	1	1	1	1	1	1	1	100 %
5268	1	1	1	1	0	1	1	1	1	1	90 %
5270(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5272	1	1	1	1	1	1	1	1	1	1	100 %
5274	1	1	1	1	1	1	1	1	1	1	100 %
5276	1	1	1	1	1	1	1	1	1	1	100 %
5278	1	1	1	1	1	1	1	1	1	1	100 %
5280	1	1	1	1	1	1	1	1	1	1	100 %
5282	1	1	1	1	1	1	1	1	1	1	100 %
5284	1	1	1	1	1	1	1	1	1	1	100 %
5286	1	1	1	1	1	1	1	1	1	1	100 %
5288	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$_L$ = 5290-5250 = 40 MHz										
EUT 99% BW = 37.4940 ; 37.4940 * 80% = 29.9952 MHz **Result:** Pass										

EUT Frequency = 5550 MHz										
DFS Detection Trials (1 = Detected, Blank = No Detected)										
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5530	0	0	0	0	0	0	0	0	0	0	0 %
5531(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5532	1	1	1	1	1	1	1	1	1	1	100 %
5534	1	1	1	1	1	1	1	1	1	1	100 %
5536	1	1	1	1	1	1	1	1	1	1	100 %
5538	1	1	1	1	1	0	1	1	1	1	90 %
5540	1	1	1	1	1	1	1	1	1	1	100 %
5542	1	1	1	1	1	1	1	1	1	1	100 %
5544	1	1	1	1	1	1	1	1	1	1	100 %
5546	1	1	1	1	1	1	1	1	1	1	100 %
5548	1	1	1	1	1	1	1	1	1	1	100 %
5550 (Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5552	1	1	1	1	1	1	1	1	1	1	100 %
5554	1	1	1	1	1	1	1	1	1	1	100 %
5556	1	1	1	1	1	1	1	1	1	1	100 %
5558	1	1	1	1	1	1	1	1	1	1	100 %
5560	1	1	1	1	1	1	1	1	1	1	100 %
5562	1	1	1	1	1	1	1	1	1	1	100 %
5564	1	1	1	1	1	1	1	1	1	1	100 %
5566	1	1	1	1	1	1	1	1	1	1	100 %
5568	1	1	1	1	1	1	1	1	1	1	100 %
5569	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 – 5531 = 39 MHz										
EUT 99% BW = 37.2179 MHz; 37.2179 * 80% = 29.77432 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 1, 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:

5280 MHz, 20 MHz Bandwidth

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1	30	96.7 %	60%	Pass
Type 2	30	96.7 %	60%	Pass
Type 3	30	100 %	60%	Pass
Type 4	30	96.7 %	60%	Pass
Aggregate (Type1 to 4)	120	97.525 %	80%	Pass
Type 5	30	100 %	80%	Pass
Type 6	30	100 %	70%	Pass

Please refer to the following statistical tables:

5280 MHz

Table-1 Radar Type 1 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5280	18	1	1428	1
2	5280	18	1	1428	1
3	5280	18	1	1428	1
4	5280	18	1	1428	1
5	5280	18	1	1428	1
6	5280	18	1	1428	1
7	5280	18	1	1428	1
8	5280	18	1	1428	1
9	5280	18	1	1428	1
10	5280	18	1	1428	1
11	5280	18	1	1428	1
12	5280	18	1	1428	1
13	5280	18	1	1428	1
14	5280	18	1	1428	1
15	5280	18	1	1428	1
16	5280	18	1	1428	1
17	5280	18	1	1428	1
18	5280	18	1	1428	1
19	5280	18	1	1428	1
20	5280	18	1	1428	1
21	5280	18	1	1428	1
22	5280	18	1	1428	1
23	5280	18	1	1428	1
24	5280	18	1	1428	1
25	5280	18	1	1428	1
26	5280	18	1	1428	1
27	5280	18	1	1428	0
28	5280	18	1	1428	1
29	5280	18	1	1428	1
30	5280	18	1	1428	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	5280	29	3.1	219	1
2	5280	23	4.5	150	1
3	5280	28	2.8	225	1
4	5280	26	2.4	214	1
5	5280	24	1.8	211	1
6	5280	26	1.3	176	1
7	5280	28	1.2	153	1
8	5280	25	4.9	194	1
9	5280	23	1.7	214	1
10	5280	26	2.1	164	1
11	5280	24	4	199	0
12	5280	23	1.8	152	1
13	5280	27	4.2	198	1
14	5280	27	1.8	172	1
15	5280	25	1.9	163	1
16	5280	23	1.2	163	1
17	5280	29	3.4	152	1
18	5280	28	4	162	1
19	5280	27	3.6	182	1
20	5280	28	2.9	151	1
21	5280	28	3.5	150	1
22	5280	28	3.2	159	1
23	5280	26	2.8	160	1
24	5280	24	1.2	214	1
25	5280	29	2.5	213	1
26	5280	23	4.3	163	1
27	5280	26	1.4	197	1
28	5280	25	4	217	1
29	5280	24	3.5	171	1
30	5280	28	4	207	1
Detection Percentage: 96.7 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5280	18	8.8	204	1
2	5280	18	8.2	285	1
3	5280	16	9.5	498	1
4	5280	17	9	391	1
5	5280	16	7.8	487	1
6	5280	17	8	381	1
7	5280	16	7	371	1
8	5280	16	7.1	394	1
9	5280	16	6.4	372	1
10	5280	17	8.6	301	1
11	5280	17	8	332	1
12	5280	18	9.7	234	1
13	5280	18	8.8	411	1
14	5280	17	6.1	329	1
15	5280	17	6.4	237	1
16	5280	16	7.9	438	1
17	5280	17	8.3	301	1
18	5280	17	8	457	1
19	5280	16	9.5	450	1
20	5280	18	8.3	447	1
21	5280	17	9.6	300	1
22	5280	18	8.8	372	1
23	5280	17	9	347	1
24	5280	18	7.1	388	1
25	5280	16	8.1	354	1
26	5280	17	7	218	1
27	5280	17	9.4	267	1
28	5280	17	6.3	420	1
29	5280	17	8.1	284	1
30	5280	17	8.4	319	1
Detection Percentage: 100 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5280	15	12.1	248	1
2	5280	16	16.1	421	1
3	5280	12	12.8	295	1
4	5280	12	18.7	380	1
5	5280	16	11.2	205	1
6	5280	13	13	207	1
7	5280	14	12	259	1
8	5280	12	14	463	1
9	5280	12	11.4	351	1
10	5280	14	17.5	491	1
11	5280	13	17	252	1
12	5280	13	18.5	293	0
13	5280	14	14.1	306	1
14	5280	16	16	494	1
15	5280	12	14	387	1
16	5280	14	13.2	443	1
17	5280	14	11.4	388	1
18	5280	14	11.2	230	1
19	5280	15	18.5	264	1
20	5280	12	13.8	203	1
21	5280	16	19.8	411	1
22	5280	13	20	486	1
23	5280	12	12.7	447	1
24	5280	16	19.6	363	1
25	5280	15	19.3	449	1
26	5280	15	12.5	374	1
27	5280	12	15.6	380	1
28	5280	16	13.4	395	1
29	5280	15	17.9	483	1
30	5280	15	14.4	445	1
Detection Percentage: 96.7 % (>60%)					

Table-5 Radar Type 5 Statistical Performance

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	6	67.2	1690	1231	1.084905	
1	2	5	60.8	1957		1.974831	
2	2	18	86.6	1193		3.14363	
3	1	13	56.5			4.000661	
4	3	8	69.9	1200	1023	5.454958	1
5	2	13	78	1842		7.109219	
6	2	19	73	1803		8.454136	
7	2	14	86.3	1216		10.64188	
8	3	13	70.6	1951	1925	11.189086	

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	60.1	1675	1707	0.386311	
1	2	18	94.8	1392		0.732466	
2	3	10	93.1	1640	1984	1.714291	
3	2	10	96.7	1401		2.425235	
4	1	17	93.4			2.782627	
5	1	8	53.6			3.42794	
6	2	8	50.8	1056		3.887114	
7	2	13	78.2	1209		4.671752	
8	1	6	68.2			5.341532	
9	2	6	55.3	1474		6.179452	1
10	2	19	87.9	1277		6.532553	
11	1	13	70.4			7.290788	
12	3	15	91.3	1329	1923	8.0343	
13	1	10	75.7			8.445474	
14	3	7	77.4	1627	1358	9.263347	
15	3	12	70.3	1901	1145	10.072986	
16	2	12	72.9	1199		10.457849	
17	3	15	56.1	1489	1493	11.22293	
18	2	13	69	1939		11.990919	

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	6	62.4	1457	1899	0.377354	
1	3	5	95.3	1689	1599	0.810234	
2	2	9	91.4	1417		1.311342	
3	2	8	51.8	1565		2.198185	
4	2	9	98	1847		2.800457	
5	2	16	97.6	1532		3.01571	
6	1	5	59.3			3.779739	
7	2	17	98.9	1831		4.637128	
8	2	6	77.6	1814		5.019773	
9	3	10	73.9	1336	1074	5.656028	
10	3	8	74.2	1301	1948	6.541641	1
11	3	6	72	1632	1178	7.185555	
12	3	16	88.8	1831	1878	7.416851	
13	2	15	93.5	1858		7.99665	
14	2	13	55.1	1633		8.790601	
15	1	7	99.7			9.247347	
16	1	16	74.7			9.989153	
17	3	12	86.1	1186	1886	10.527902	
18	1	6	91.4			10.821594	
19	3	10	58.2	1223	1243	11.621441	

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	18	84.1	1101		0.076904	
1	3	5	85.5	1313	1209	1.328996	
2	1	9	72.5			2.087702	
3	3	7	74.6	1975	1057	2.705945	
4	1	15	85.9			3.11337	
5	3	16	99.6	1048	1845	4.453381	
6	1	12	67.6			4.876068	
7	2	13	95.7	1146		5.752968	
8	2	12	65.4	1067		6.102297	1
9	2	18	54.9	1882		7.171664	
10	2	8	91.9	1129		7.626952	
11	2	12	86.4	1911		8.67363	
12	3	7	89.9	1713	1805	9.535024	
13	1	14	84.8			10.486682	
14	2	17	68.8	1781		11.053033	
15	2	9	58.7	1088		11.478131	

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	16	86	1763	1403	0.891405	
1	2	14	93.6	1395		1.352143	
2	2	17	97.4	1982		3.172071	
3	1	8	99.1			4.145867	
4	3	9	91.7	1636	1695	5.888523	1
5	1	18	57.5			6.365652	
6	2	7	75.7	1685		7.35039	
7	2	13	56.2	1713		8.556299	
8	1	20	65.3			9.854396	
9	2	18	95	1750		11.886692	

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	13	85.7	1337		0.086679	
1	2	18	58.5	1818		1.875907	
2	1	20	89.3			2.504287	
3	1	13	84.8			3.95934	
4	3	11	55.6	1609	1046	5.776563	
5	3	7	69.3	1385	1683	6.61787	1
6	3	7	94.6	1394	1291	7.692529	
7	2	13	63.2	1914		8.465891	
8	1	9	60.6			10.381287	
9	2	14	74.3	1994		11.604275	

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	14	77.2			0.439625	
1	2	19	66.5	1734		1.25708	
2	2	19	74.2	1154		1.93425	
3	3	16	84.3	1007	1430	2.830701	
4	2	7	73.2	1816		3.556663	
5	1	8	97.8			4.17641	
6	2	6	51.6	1426		5.178324	
7	1	6	73.9			5.288081	
8	2	15	92.2	1605		6.498211	1
9	3	15	54.9	1157	1508	7.053287	
10	3	10	64.9	1713	1266	7.971031	
11	2	14	58.4	1547		8.818055	
12	2	18	76.7	1020		9.189666	
13	1	16	95.2			10.055844	
14	1	7	52.7			10.683976	
15	2	8	75	1310		11.263811	

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	14	96.7	1684		0.115158	
1	1	18	71.3			1.584928	
2	1	12	78.1			2.499066	
3	2	9	85.6	1334		3.129349	
4	2	15	90.1	1414		4.423568	
5	1	6	59.9			5.812407	
6	2	7	79.3	1927		6.512647	1
7	3	19	80.4	1946	1648	7.443475	
8	2	13	83.6	1422		8.111842	
9	2	7	64.4	1749		9.513865	
10	1	14	87.6			10.586558	
11	1	17	89			11.824433	

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	9	87	1936		0.115016	
1	2	5	53.1	1397		1.034413	
2	2	14	78.2	1380		2.290139	
3	1	8	78.8			2.830566	
4	1	18	76.9			3.590476	
5	1	16	57.1			4.985507	
6	3	18	70.1	1910	1367	5.201839	
7	2	6	94.5	1672		6.354497	1
8	2	10	71	1843		7.398153	
9	1	16	87.5			7.802932	
10	2	18	99.5	1626		8.945618	
11	3	19	85.8	1776	1701	9.62753	
12	3	13	96.2	1844	1154	10.771921	
13	2	11	62.3	1047		11.835737	

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	80.6			0.20294	
1	1	8	74.7			1.1459	
2	2	11	92.6	1420		1.968007	
3	3	19	89.7	1998	1209	3.13224	
4	3	8	91	1912	1986	3.711904	
5	3	13	55.1	1146	1273	4.308594	
6	1	8	55.6			5.837895	1
7	2	7	51.9	1730		6.093219	
8	1	14	72.4			7.51196	
9	1	10	85.5			8.565675	
10	3	16	59.9	1966	1714	9.334615	
11	1	16	52.9			10.241018	
12	2	8	62.1	1884		10.383654	
13	3	15	83.1	1373	1490	11.513211	

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	10	57.5	1148	1441	1.078771	
1	3	18	84.9	1955	1888	1.18356	
2	2	6	90.5	1868		2.628735	
3	2	9	50.9	1335		3.856167	
4	2	19	50.3	1332		4.489944	
5	3	16	66.9	1992	1806	5.545937	1
6	1	7	60.3			7.299451	
7	1	12	52.9			8.561004	
8	3	17	96.8	1404	1262	9.709761	
9	3	5	91.4	1943	1489	10.871881	
10	2	19	55.5	1913		11.591841	

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	9	51.1	1286		0.64775	
1	2	17	50.2	1249		1.27303	
2	2	8	94.6	1735		2.400432	
3	1	6	69			4.012255	
4	2	9	69.4	1606		5.243533	
5	1	8	90.1			6.446064	1
6	1	20	67.3			7.469204	
7	2	19	95.6	1863		7.687132	
8	2	12	58.5	1732		9.352442	
9	1	10	56			10.107786	
10	2	19	77.4	1221		11.13186	

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	9	73.9	1149		0.350134	
1	2	13	77.2	1232		1.249438	
2	1	8	70			1.805093	
3	2	15	69.8	1039		2.158253	
4	1	9	70.1			2.810139	
5	1	11	69.7			3.470525	
6	1	19	65			4.264505	
7	1	20	58.9			4.423702	
8	1	12	52.4			5.208545	
9	2	9	67	1087		5.837752	1
10	3	13	53.7	1407	1305	6.45204	
11	3	15	50.6	1790	1574	6.967933	
12	2	14	91.1	1842		7.851898	
13	2	13	73.8	1104		8.38129	
14	2	8	54.3	1698		9.161856	
15	3	9	73.8	1783	1900	9.898598	
16	2	20	99.3	1660		10.225501	
17	2	14	72.5	1986		11.309526	
18	3	16	61.5	1696	1687	11.747038	

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	18	76.1	1332		0.610404	
1	1	9	59.6			2.282095	
2	2	6	93.1	1029		3.310699	
3	2	16	80	1075		4.132564	
4	2	19	56.5	1259		4.836206	1
5	2	14	56.4	1810		6.774222	
6	3	12	82.7	1760	1054	7.569448	
7	2	13	99.3	1609		9.236223	
8	3	12	78.6	1025	1941	9.717921	
9	2	5	94.3	1408		11.630266	

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	9	89	1300		1.200947	
1	2	17	55.7	1766		1.776297	
2	2	6	62.8	1818		3.866412	
3	1	15	60.5			4.90895	1
4	1	12	75.5			6.619996	
5	2	14	75.2	1960		7.641203	
6	2	12	56.3	1523		9.693111	
7	3	17	56.9	1521	1199	11.690774	

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	18	73	1940		0.358256	
1	3	12	83.4	1033	1727	1.887224	
2	3	7	72.8	1996	1919	2.859257	
3	2	18	93.3	1491		4.051377	
4	2	16	56.9	1577		4.727084	
5	1	5	56.9			6.210338	1
6	1	19	87.3			7.46382	
7	1	8	85.2			8.578178	
8	2	8	67.8	1376		9.557964	
9	3	6	77.8	1600	1007	10.207259	
10	3	18	56.5	1141	1510	11.846476	

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	13	86.9	1316		0.246415	
1	3	20	77.7	1060	1460	1.78627	
2	2	13	75.3	1250		2.870171	
3	3	16	86.6	1676	1475	3.55636	
4	2	17	59.6	1334		4.787521	
5	2	9	57.3	1495		5.766742	1
6	2	7	83.3	1919		6.996639	
7	3	14	87.3	1499	1332	7.784415	
8	1	8	54.9			9.451771	
9	2	18	64.8	1485		10.354557	
10	3	13	68.7	1704	1739	11.967051	

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	16	64.3	1339	1717	0.660128	
1	2	10	57.6	1682		1.291986	
2	2	18	88.5	1380		2.235323	
3	3	7	87.4	1827	1125	2.628433	
4	2	6	65.8	1191		4.182394	
5	2	6	69.7	1877		5.054102	
6	3	9	79.7	1029	1955	5.352761	1
7	2	8	53.8	1110		6.01489	
8	2	12	83.7	1179		7.441964	
9	2	11	87.9	1993		8.434193	
10	2	11	99.8	1127		8.902053	
11	3	19	52.3	1232	1225	9.940934	
12	2	14	62.5	1521		10.55008	
13	1	16	51.5			11.258599	

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	12	97.9	1700	1731	0.243613	
1	1	5	91.1			1.281935	
2	1	6	57.5			1.413629	
3	2	19	55.5	1444		2.586075	
4	1	9	71.6			3.184112	
5	2	16	53.6	1952		3.894231	
6	2	8	60.1	1118		4.580222	
7	1	18	55.4			5.238075	
8	2	10	96.4	1027		6.15282	1
9	2	10	94.6	1328		6.889065	
10	2	9	96.2	1927		7.214727	
11	2	8	64	1668		8.211407	
12	2	12	73.4	1848		8.662601	
13	1	9	73.6			9.480771	
14	1	9	98.8			10.155	
15	1	11	93.7			11.003569	
16	2	5	85.5	1874		11.532307	

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	3	10	66.6	1934	1148	0.173172	
1	2	19	52.3	1225		1.586867	
2	3	18	80.8	1236	1859	2.821591	
3	2	13	56.5	1004		3.559876	
4	2	19	53.8	1424		4.114084	
5	2	13	64	1670		5.752439	1
6	1	7	63.1			6.905666	
7	1	10	61.7			7.262722	
8	1	9	87.6			8.96078	
9	2	19	67.3	1516		9.369793	
10	3	15	60.6	1114	1509	10.018202	
11	2	9	56.6	1746		11.620064	

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	6	63.7	1709		1.223321	
1	1	11	84.9			1.676375	
2	1	6	75.9			3.522536	
3	3	17	65.8	1386	1024	4.304358	
4	1	20	58.5			6.133301	1
5	2	13	65.5	1775		7.970335	
6	3	8	98.7	1956	1570	8.527681	
7	3	6	52	1418	1362	9.556505	
8	2	20	72.1	1097		11.511699	

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	1	6	90.4			0.178464	
1	1	18	69.2			1.19971	
2	2	15	68.7	1295		1.530077	
3	3	16	91.6	1956	1646	2.037067	
4	2	18	90.6	1188		3.30289	
5	2	16	87.2	1871		3.675687	
6	2	19	93.9	1819		4.589038	
7	2	18	71.8	1015		5.159217	
8	1	20	87.6			5.510248	
9	2	17	86	1332		6.218704	1
10	3	8	62.2	1797	1757	6.834483	
11	1	15	69.1			7.801357	
12	2	19	90.1	1407		8.329814	
13	3	11	71	1447	1003	8.681327	
14	3	6	66.5	1449	1818	9.696099	
15	3	10	77.2	1509	1504	10.632652	
16	2	13	50.6	1862		10.944581	
17	3	9	96.5	1429	1473	11.853917	

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	1	10	64.4			0.875435	
1	1	16	60.7			1.330308	
2	1	11	64			2.80536	
3	3	13	82.6	1783	1685	3.234957	
4	2	13	62	1800		4.587559	
5	3	10	55.7	1127	1765	5.302693	
6	1	13	82.5			6.173505	1
7	1	12	99.4			7.447399	
8	2	15	83.1	1880		8.305742	
9	1	16	55.2			9.655988	
10	2	19	95.9	1861		10.976686	
11	1	8	84.8			11.381398	

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	13	58.3	1329	1332	0.148756	
1	2	7	72.6	1155		1.156526	
2	1	15	65.7			1.674749	
3	3	11	79	1988	1240	2.341681	
4	2	7	90	1194		3.457527	
5	2	7	63.1	1490		4.147475	
6	2	10	90.1	1264		4.324738	
7	2	17	91.9	1074		5.321905	
8	1	17	89.7			6.25552	1
9	1	7	54.5			7.048945	
10	1	15	81.5			7.36725	
11	3	17	52	1187	1044	7.789252	
12	3	14	57.4	1420	1847	9.008408	
13	3	13	98.1	1091	1562	9.865062	
14	3	16	95.2	1160	1375	9.941095	
15	1	15	64.4			10.596399	
16	2	20	89	1634		11.728083	

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	6	85.7	1775		0.43141	
1	2	9	98.3	1599		1.811035	
2	2	10	64.3	1781		2.809679	
3	3	14	63	1120	1140	3.980952	
4	1	7	90.4			4.736251	
5	1	14	59.2			5.859371	1
6	2	10	95.1	1277		6.21049	
7	3	5	88	1310	1053	7.218902	
8	2	8	89.8	1227		8.65215	
9	2	16	68.1	1454		9.344577	
10	3	13	94.7	1408	1997	10.352942	
11	2	11	71.6	1722		11.074835	

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	58.5	1840		0.281402	
1	1	8	99.8			0.809943	
2	3	14	84.3	1887	1760	1.382952	
3	2	13	78.8	1690		1.931116	
4	1	8	75.6			2.565115	
5	2	18	67.6	1043		3.212733	
6	2	18	79.4	1134		3.938645	
7	1	6	86			4.602949	
8	2	12	70	1948		5.617691	
9	1	19	63.1			5.922927	1
10	1	14	70.3			6.695749	
11	1	9	94.4			7.239077	
12	2	11	92	1124		7.927422	
13	1	19	98.9			8.444766	
14	1	19	65.5			9.285881	
15	2	6	75.8	1943		10.098863	
16	3	12	72.2	1038	1594	10.127406	
17	2	7	98.9	1898		10.972289	
18	1	15	85.3			11.669888	

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	9	72.5	1429	1903	1.039651	
1	3	18	86.4	1681	1818	1.661767	
2	3	9	63.6	1786	1884	4.347775	
3	3	13	83.4	1275	1707	4.806175	
4	2	13	62.5	1638		6.50065	1
5	2	15	94.6	1083		7.694939	
6	3	6	96.4	1938	1826	9.038475	
7	2	11	92.9	1518		11.156592	

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	65.2	1463		0.531192	
1	3	7	77.1	1283	1084	1.642296	
2	3	11	64.4	1898	1412	3.468799	
3	1	14	70.7			4.449787	
4	2	17	94.1	1270		5.760818	1
5	3	17	84.7	1013	1249	6.749696	
6	1	20	76.1			9.198406	
7	3	7	86.4	1690	1394	9.427168	
8	2	18	55.4	1981		10.819882	

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	8	71	1879		0.361167	
1	2	15	85.7	1476		1.355524	
2	2	9	82.1	1576		1.861958	
3	3	16	88.1	1586	1487	2.470693	
4	2	7	91.7	1608		3.210896	
5	2	14	83.7	1726		4.237625	
6	3	11	67.6	1061	1637	4.873413	
7	3	15	50.8	1917	1888	5.667544	1
8	1	14	59.6			6.993934	
9	1	5	98.6			7.309766	
10	2	11	72	1691		8.725711	
11	2	11	90.3	1785		8.820151	
12	2	6	72.4	1826		9.604387	
13	2	12	92.7	1745		10.459268	
14	2	16	93	1623		11.594289	

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	8	81.6	1299		0.308972	
1	2	5	86.2	1627		2.747246	
2	2	7	82.4	1671		3.03052	
3	2	10	79.8	1838		5.901552	1
4	2	17	74.5	1272		7.427987	
5	3	13	89.2	1052	1187	7.608928	
6	2	20	70.1	1206		9.633827	
7	2	15	78.3	1971		11.499895	

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	5280	9	1	333	1	5427.0, 5569.0, 5518.0, 5266.0, 5273.0, 5389.0, 5327.0, 5625.0, 5598.0, 5550.0, 5314.0, 5306.0, 5508.0, 5287.0, 5254.0, 5259.0, 5719.0, 5339.0, 5538.0, 5593.0, 5291.0, 5344.0, 5365.0, 5320.0, 5520.0, 5551.0, 5284.0, 5546.0, 5524.0, 5497.0, 5567.0, 5690.0, 5595.0, 5698.0, 5532.0, 5400.0, 5609.0, 5308.0, 5577.0, 5437.0, 5434.0, 5260.0, 5703.0, 5571.0, 5472.0, 5356.0, 5347.0, 5523.0, 5559.0, 5494.0, 5425.0, 5706.0, 5433.0, 5583.0, 5530.0, 5644.0, 5636.0, 5322.0, 5443.0, 5720.0, 5504.0, 5468.0, 5348.0, 5675.0, 5426.0, 5334.0, 5293.0, 5668.0, 5534.0, 5445.0, 5544.0, 5300.0, 5488.0, 5450.0, 5516.0, 5323.0, 5408.0, 5361.0, 5724.0, 5514.0, 5575.0, 5485.0, 5397.0, 5605.0, 5526.0, 5672.0, 5388.0, 5612.0, 5573.0, 5600.0, 5688.0, 5487.0, 5507.0, 5713.0, 5635.0, 5666.0, 5478.0, 5390.0, 5517.0, 5384.0 (number of hits: 7)
2	5280	9	1	333	1	5582.0, 5537.0, 5438.0, 5578.0, 5435.0, 5364.0, 5400.0, 5285.0, 5719.0, 5622.0, 5308.0, 5671.0, 5538.0, 5575.0, 5501.0, 5677.0, 5617.0, 5315.0, 5270.0, 5481.0, 5648.0, 5434.0, 5659.0, 5405.0, 5708.0, 5277.0, 5559.0, 5367.0, 5329.0, 5356.0, 5703.0, 5274.0, 5286.0, 5560.0, 5342.0, 5412.0, 5544.0, 5589.0, 5482.0, 5398.0, 5697.0, 5321.0, 5629.0, 5616.0, 5528.0, 5580.0, 5383.0, 5431.0, 5550.0, 5396.0, 5591.0, 5706.0, 5516.0, 5699.0, 5304.0, 5344.0, 5292.0, 5453.0, 5601.0, 5358.0, 5316.0, 5374.0, 5369.0, 5272.0, 5399.0, 5288.0, 5362.0, 5614.0, 5420.0, 5493.0, 5380.0, 5488.0, 5335.0, 5690.0, 5284.0, 5624.0, 5681.0, 5695.0, 5599.0, 5268.0, 5534.0, 5540.0, 5261.0, 5700.0, 5296.0, 5313.0, 5254.0, 5704.0, 5442.0, 5585.0, 5684.0, 5683.0, 5251.0, 5341.0, 5569.0, 5485.0, 5314.0, 5581.0, 5551.0, 5407.0 (number of hits: 9)
3	5280	9	1	333	1	5715.0, 5531.0, 5655.0, 5433.0, 5537.0, 5272.0, 5465.0, 5423.0, 5708.0, 5454.0, 5695.0, 5273.0, 5336.0, 5403.0, 5587.0, 5379.0, 5566.0, 5270.0, 5685.0, 5714.0, 5584.0, 5266.0, 5354.0, 5689.0, 5361.0, 5551.0, 5355.0, 5511.0, 5322.0, 5674.0, 5513.0, 5492.0, 5352.0, 5463.0, 5663.0, 5665.0, 5369.0, 5677.0, 5718.0, 5333.0, 5660.0, 5652.0, 5346.0, 5643.0, 5371.0, 5670.0, 5441.0, 5359.0, 5304.0, 5342.0, 5528.0, 5451.0, 5686.0, 5401.0, 5422.0,

						5391.0, 5419.0, 5684.0, 5616.0, 5464.0, 5688.0, 5538.0, 5548.0, 5581.0, 5299.0, 5527.0, 5445.0, 5507.0, 5621.0, 5303.0, 5712.0, 5601.0, 5316.0, 5425.0, 5387.0, 5385.0, 5318.0, 5623.0, 5449.0, 5594.0, 5529.0, 5332.0, 5400.0, 5298.0, 5394.0, 5500.0, 5310.0, 5721.0, 5555.0, 5254.0, 5700.0, 5590.0, 5375.0, 5458.0, 5353.0, 5694.0, 5481.0, 5281.0, 5350.0, 5351.0 (number of hits: 5)
4	5280	9	1	333	1	5629.0, 5277.0, 5401.0, 5497.0, 5669.0, 5535.0, 5682.0, 5396.0, 5626.0, 5262.0, 5681.0, 5536.0, 5695.0, 5312.0, 5719.0, 5374.0, 5709.0, 5652.0, 5349.0, 5409.0, 5550.0, 5493.0, 5326.0, 5558.0, 5607.0, 5369.0, 5463.0, 5434.0, 5599.0, 5526.0, 5436.0, 5476.0, 5706.0, 5638.0, 5565.0, 5462.0, 5661.0, 5449.0, 5356.0, 5511.0, 5341.0, 5423.0, 5670.0, 5334.0, 5692.0, 5255.0, 5534.0, 5554.0, 5630.0, 5521.0, 5679.0, 5319.0, 5636.0, 5567.0, 5722.0, 5410.0, 5299.0, 5306.0, 5364.0, 5662.0, 5471.0, 5295.0, 5468.0, 5675.0, 5723.0, 5672.0, 5601.0, 5580.0, 5459.0, 5353.0, 5545.0, 5368.0, 5633.0, 5506.0, 5283.0, 5345.0, 5649.0, 5625.0, 5384.0, 5298.0, 5563.0, 5541.0, 5402.0, 5488.0, 5381.0, 5641.0, 5530.0, 5651.0, 5304.0, 5383.0, 5717.0, 5355.0, 5569.0, 5622.0, 5253.0, 5492.0, 5464.0, 5579.0, 5415.0, 5475.0 (number of hits: 6)
5	5280	9	1	333	1	5516.0, 5669.0, 5700.0, 5300.0, 5681.0, 5350.0, 5652.0, 5303.0, 5591.0, 5665.0, 5578.0, 5361.0, 5330.0, 5327.0, 5415.0, 5373.0, 5551.0, 5376.0, 5309.0, 5254.0, 5470.0, 5510.0, 5639.0, 5566.0, 5699.0, 5694.0, 5514.0, 5391.0, 5698.0, 5455.0, 5462.0, 5497.0, 5623.0, 5611.0, 5379.0, 5537.0, 5604.0, 5587.0, 5403.0, 5301.0, 5274.0, 5362.0, 5557.0, 5433.0, 5484.0, 5626.0, 5579.0, 5573.0, 5272.0, 5548.0, 5454.0, 5627.0, 5343.0, 5256.0, 5437.0, 5476.0, 5561.0, 5535.0, 5381.0, 5474.0, 5312.0, 5448.0, 5723.0, 5323.0, 5629.0, 5260.0, 5335.0, 5714.0, 5496.0, 5279.0, 5380.0, 5432.0, 5251.0, 5560.0, 5515.0, 5687.0, 5354.0, 5722.0, 5517.0, 5525.0, 5616.0, 5498.0, 5593.0, 5647.0, 5581.0, 5386.0, 5478.0, 5387.0, 5271.0, 5461.0, 5528.0, 5459.0, 5284.0, 5655.0, 5363.0, 5677.0, 5465.0, 5266.0, 5333.0, 5625.0 (number of hits: 5)
6	5280	9	1	333	1	5595.0, 5704.0, 5717.0, 5346.0, 5512.0, 5353.0, 5261.0, 5625.0, 5527.0, 5562.0, 5416.0, 5483.0, 5336.0, 5580.0, 5718.0, 5643.0, 5707.0, 5674.0, 5564.0, 5293.0, 5496.0, 5408.0, 5529.0, 5621.0, 5250.0, 5589.0, 5255.0, 5550.0, 5253.0, 5289.0, 5265.0, 5252.0, 5683.0, 5574.0, 5457.0,

						5526.0, 5714.0, 5637.0, 5660.0, 5485.0, 5307.0, 5365.0, 5568.0, 5525.0, 5492.0, 5624.0, 5448.0, 5366.0, 5424.0, 5389.0, 5489.0, 5387.0, 5713.0, 5539.0, 5598.0, 5308.0, 5291.0, 5388.0, 5515.0, 5370.0, 5337.0, 5542.0, 5254.0, 5488.0, 5612.0, 5465.0, 5314.0, 5671.0, 5482.0, 5524.0, 5258.0, 5607.0, 5531.0, 5320.0, 5556.0, 5260.0, 5629.0, 5630.0, 5487.0, 5701.0, 5345.0, 5350.0, 5460.0, 5349.0, 5480.0, 5684.0, 5404.0, 5716.0, 5452.0, 5646.0, 5326.0, 5641.0, 5692.0, 5295.0, 5402.0, 5510.0, 5486.0, 5390.0, 5522.0, 5712.0 (number of hits: 7)
7	5280	9	1	333	1	5475.0, 5693.0, 5612.0, 5518.0, 5641.0, 5602.0, 5483.0, 5707.0, 5653.0, 5439.0, 5696.0, 5468.0, 5544.0, 5675.0, 5385.0, 5574.0, 5388.0, 5272.0, 5690.0, 5480.0, 5622.0, 5635.0, 5660.0, 5294.0, 5668.0, 5369.0, 5379.0, 5646.0, 5628.0, 5576.0, 5595.0, 5611.0, 5542.0, 5436.0, 5575.0, 5434.0, 5352.0, 5262.0, 5362.0, 5703.0, 5527.0, 5524.0, 5306.0, 5671.0, 5457.0, 5312.0, 5298.0, 5488.0, 5520.0, 5417.0, 5517.0, 5257.0, 5679.0, 5617.0, 5409.0, 5283.0, 5376.0, 5545.0, 5626.0, 5278.0, 5342.0, 5577.0, 5539.0, 5324.0, 5438.0, 5378.0, 5279.0, 5256.0, 5327.0, 5343.0, 5375.0, 5404.0, 5276.0, 5345.0, 5638.0, 5373.0, 5447.0, 5709.0, 5618.0, 5411.0, 5596.0, 5498.0, 5491.0, 5640.0, 5250.0, 5358.0, 5593.0, 5651.0, 5267.0, 5354.0, 5253.0, 5605.0, 5325.0, 5682.0, 5360.0, 5263.0, 5336.0, 5391.0, 5629.0, 5721.0 (number of hits: 4)
8	5280	9	1	333	1	5693.0, 5528.0, 5480.0, 5362.0, 5586.0, 5398.0, 5317.0, 5340.0, 5399.0, 5500.0, 5278.0, 5297.0, 5700.0, 5562.0, 5474.0, 5349.0, 5446.0, 5331.0, 5692.0, 5609.0, 5360.0, 5628.0, 5573.0, 5616.0, 5640.0, 5708.0, 5392.0, 5637.0, 5502.0, 5273.0, 5253.0, 5602.0, 5403.0, 5687.0, 5567.0, 5550.0, 5547.0, 5596.0, 5457.0, 5583.0, 5315.0, 5619.0, 5368.0, 5675.0, 5520.0, 5507.0, 5400.0, 5348.0, 5451.0, 5462.0, 5721.0, 5508.0, 5351.0, 5401.0, 5314.0, 5343.0, 5643.0, 5624.0, 5269.0, 5295.0, 5555.0, 5316.0, 5300.0, 5322.0, 5302.0, 5632.0, 5605.0, 5289.0, 5634.0, 5532.0, 5386.0, 5564.0, 5539.0, 5478.0, 5464.0, 5292.0, 5568.0, 5650.0, 5498.0, 5309.0, 5691.0, 5277.0, 5486.0, 5514.0, 5270.0, 5561.0, 5553.0, 5443.0, 5448.0, 5621.0, 5337.0, 5592.0, 5704.0, 5666.0, 5722.0, 5420.0, 5594.0, 5463.0, 5266.0, 5658.0 (number of hits: 8)
9	5280	9	1	333	1	5561.0, 5508.0, 5251.0, 5592.0, 5509.0, 5418.0, 5453.0, 5554.0, 5686.0, 5304.0, 5479.0, 5357.0, 5571.0, 5364.0, 5296.0,

						5492.0, 5339.0, 5604.0, 5619.0, 5413.0, 5472.0, 5408.0, 5663.0, 5426.0, 5262.0, 5537.0, 5567.0, 5423.0, 5481.0, 5461.0, 5448.0, 5409.0, 5569.0, 5609.0, 5384.0, 5427.0, 5690.0, 5354.0, 5683.0, 5431.0, 5548.0, 5721.0, 5661.0, 5575.0, 5419.0, 5684.0, 5459.0, 5568.0, 5507.0, 5291.0, 5615.0, 5285.0, 5504.0, 5685.0, 5292.0, 5449.0, 5689.0, 5382.0, 5636.0, 5544.0, 5465.0, 5412.0, 5301.0, 5480.0, 5645.0, 5535.0, 5669.0, 5333.0, 5608.0, 5254.0, 5653.0, 5443.0, 5501.0, 5379.0, 5579.0, 5667.0, 5498.0, 5356.0, 5406.0, 5643.0, 5658.0, 5368.0, 5424.0, 5456.0, 5303.0, 5697.0, 5373.0, 5494.0, 5375.0, 5347.0, 5706.0, 5335.0, 5719.0, 5695.0, 5610.0, 5599.0, 5698.0, 5263.0, 5714.0, 5253.0 (number of hits: 7)
10	5280	9	1	333	1	5513.0, 5322.0, 5372.0, 5699.0, 5477.0, 5583.0, 5365.0, 5414.0, 5591.0, 5415.0, 5527.0, 5465.0, 5546.0, 5451.0, 5605.0, 5482.0, 5629.0, 5278.0, 5555.0, 5539.0, 5651.0, 5311.0, 5544.0, 5634.0, 5392.0, 5584.0, 5297.0, 5433.0, 5315.0, 5682.0, 5361.0, 5499.0, 5630.0, 5292.0, 5389.0, 5609.0, 5657.0, 5250.0, 5284.0, 5385.0, 5402.0, 5678.0, 5405.0, 5280.0, 5512.0, 5458.0, 5520.0, 5694.0, 5529.0, 5545.0, 5561.0, 5412.0, 5604.0, 5257.0, 5714.0, 5351.0, 5413.0, 5706.0, 5358.0, 5596.0, 5585.0, 5570.0, 5393.0, 5368.0, 5573.0, 5300.0, 5386.0, 5692.0, 5722.0, 5342.0, 5601.0, 5348.0, 5503.0, 5306.0, 5523.0, 5357.0, 5597.0, 5589.0, 5426.0, 5285.0, 5489.0, 5460.0, 5642.0, 5497.0, 5407.0, 5502.0, 5274.0, 5491.0, 5316.0, 5602.0, 5535.0, 5671.0, 5543.0, 5688.0, 5335.0, 5723.0, 5542.0, 5571.0, 5260.0, 5467.0 (number of hits: 6)
11	5280	9	1	333	1	5363.0, 5652.0, 5262.0, 5492.0, 5639.0, 5373.0, 5516.0, 5292.0, 5449.0, 5459.0, 5679.0, 5703.0, 5571.0, 5544.0, 5445.0, 5665.0, 5432.0, 5254.0, 5576.0, 5618.0, 5412.0, 5376.0, 5277.0, 5597.0, 5517.0, 5670.0, 5696.0, 5408.0, 5716.0, 5514.0, 5496.0, 5289.0, 5332.0, 5706.0, 5718.0, 5589.0, 5566.0, 5341.0, 5371.0, 5562.0, 5675.0, 5607.0, 5581.0, 5428.0, 5483.0, 5454.0, 5648.0, 5368.0, 5375.0, 5553.0, 5318.0, 5700.0, 5435.0, 5636.0, 5342.0, 5495.0, 5339.0, 5296.0, 5317.0, 5551.0, 5453.0, 5423.0, 5567.0, 5697.0, 5575.0, 5610.0, 5433.0, 5430.0, 5676.0, 5323.0, 5330.0, 5507.0, 5506.0, 5479.0, 5385.0, 5452.0, 5690.0, 5664.0, 5261.0, 5265.0, 5606.0, 5481.0, 5498.0, 5474.0, 5608.0, 5693.0, 5440.0, 5599.0, 5400.0, 5396.0, 5556.0, 5281.0, 5251.0, 5692.0, 5535.0, 5389.0, 5335.0, 5488.0, 5316.0, 5674.0

						(number of hits: 3)
12	5280	9	1	333	1	5449.0, 5274.0, 5420.0, 5530.0, 5349.0, 5550.0, 5379.0, 5712.0, 5259.0, 5572.0, 5490.0, 5655.0, 5456.0, 5533.0, 5467.0, 5610.0, 5592.0, 5272.0, 5443.0, 5479.0, 5480.0, 5417.0, 5275.0, 5601.0, 5416.0, 5492.0, 5377.0, 5446.0, 5520.0, 5650.0, 5704.0, 5258.0, 5313.0, 5541.0, 5564.0, 5676.0, 5269.0, 5513.0, 5697.0, 5684.0, 5515.0, 5546.0, 5343.0, 5317.0, 5270.0, 5371.0, 5540.0, 5570.0, 5649.0, 5660.0, 5304.0, 5390.0, 5399.0, 5710.0, 5628.0, 5528.0, 5719.0, 5699.0, 5574.0, 5622.0, 5430.0, 5469.0, 5311.0, 5253.0, 5341.0, 5722.0, 5508.0, 5452.0, 5542.0, 5418.0, 5262.0, 5447.0, 5300.0, 5324.0, 5331.0, 5414.0, 5597.0, 5291.0, 5328.0, 5386.0, 5457.0, 5568.0, 5517.0, 5595.0, 5409.0, 5267.0, 5337.0, 5569.0, 5357.0, 5538.0, 5332.0, 5473.0, 5559.0, 5501.0, 5293.0, 5314.0, 5256.0, 5656.0, 5444.0, 5633.0
						(number of hits: 7)
13	5280	9	1	333	1	5371.0, 5315.0, 5472.0, 5526.0, 5544.0, 5397.0, 5715.0, 5435.0, 5408.0, 5314.0, 5650.0, 5706.0, 5594.0, 5665.0, 5674.0, 5499.0, 5464.0, 5390.0, 5304.0, 5537.0, 5555.0, 5511.0, 5365.0, 5448.0, 5326.0, 5426.0, 5351.0, 5549.0, 5540.0, 5586.0, 5513.0, 5630.0, 5685.0, 5686.0, 5305.0, 5420.0, 5531.0, 5412.0, 5400.0, 5622.0, 5368.0, 5653.0, 5575.0, 5552.0, 5624.0, 5644.0, 5494.0, 5358.0, 5252.0, 5645.0, 5414.0, 5403.0, 5460.0, 5613.0, 5528.0, 5311.0, 5437.0, 5357.0, 5601.0, 5418.0, 5530.0, 5363.0, 5581.0, 5413.0, 5389.0, 5606.0, 5668.0, 5675.0, 5666.0, 5306.0, 5479.0, 5632.0, 5411.0, 5456.0, 5504.0, 5462.0, 5349.0, 5364.0, 5629.0, 5482.0, 5359.0, 5703.0, 5691.0, 5516.0, 5261.0, 5687.0, 5633.0, 5709.0, 5512.0, 5334.0, 5710.0, 5649.0, 5682.0, 5370.0, 5487.0, 5625.0, 5611.0, 5379.0, 5671.0, 5293.0
						(number of hits: 6)
14	5280	9	1	333	1	5584.0, 5259.0, 5402.0, 5318.0, 5370.0, 5481.0, 5655.0, 5442.0, 5441.0, 5361.0, 5656.0, 5364.0, 5687.0, 5543.0, 5324.0, 5569.0, 5265.0, 5351.0, 5689.0, 5321.0, 5335.0, 5684.0, 5617.0, 5297.0, 5460.0, 5686.0, 5518.0, 5445.0, 5563.0, 5645.0, 5594.0, 5447.0, 5255.0, 5305.0, 5377.0, 5293.0, 5254.0, 5410.0, 5344.0, 5476.0, 5353.0, 5664.0, 5519.0, 5414.0, 5482.0, 5373.0, 5319.0, 5591.0, 5281.0, 5508.0, 5509.0, 5263.0, 5705.0, 5504.0, 5277.0, 5366.0, 5648.0, 5384.0, 5371.0, 5448.0, 5583.0, 5287.0, 5646.0, 5681.0, 5680.0, 5573.0, 5278.0, 5500.0, 5411.0, 5268.0, 5372.0, 5551.0, 5521.0, 5446.0, 5452.0, 5426.0, 5379.0, 5494.0, 5423.0, 5443.0,

						5714.0, 5606.0, 5720.0, 5723.0, 5274.0, 5602.0, 5643.0, 5503.0, 5260.0, 5483.0, 5463.0, 5356.0, 5554.0, 5578.0, 5549.0, 5630.0, 5299.0, 5676.0, 5587.0, 5694.0 (number of hits: 5)
15	5280	9	1	333	1	5418.0, 5723.0, 5395.0, 5490.0, 5382.0, 5369.0, 5551.0, 5267.0, 5343.0, 5366.0, 5719.0, 5644.0, 5324.0, 5662.0, 5556.0, 5504.0, 5563.0, 5668.0, 5528.0, 5583.0, 5492.0, 5632.0, 5623.0, 5640.0, 5685.0, 5553.0, 5622.0, 5385.0, 5672.0, 5578.0, 5487.0, 5252.0, 5287.0, 5384.0, 5680.0, 5294.0, 5663.0, 5400.0, 5676.0, 5387.0, 5473.0, 5391.0, 5637.0, 5635.0, 5263.0, 5703.0, 5536.0, 5305.0, 5436.0, 5524.0, 5292.0, 5573.0, 5428.0, 5393.0, 5288.0, 5656.0, 5412.0, 5599.0, 5293.0, 5546.0, 5694.0, 5562.0, 5624.0, 5503.0, 5655.0, 5285.0, 5507.0, 5634.0, 5415.0, 5482.0, 5296.0, 5470.0, 5610.0, 5613.0, 5416.0, 5710.0, 5527.0, 5595.0, 5349.0, 5690.0, 5405.0, 5554.0, 5494.0, 5671.0, 5370.0, 5280.0, 5545.0, 5441.0, 5373.0, 5474.0, 5688.0, 5424.0, 5333.0, 5392.0, 5273.0, 5617.0, 5435.0, 5276.0, 5614.0, 5258.0 (number of hits: 8)
16	5280	9	1	333	1	5295.0, 5642.0, 5684.0, 5696.0, 5416.0, 5505.0, 5541.0, 5539.0, 5324.0, 5322.0, 5610.0, 5313.0, 5537.0, 5468.0, 5400.0, 5259.0, 5546.0, 5430.0, 5711.0, 5705.0, 5434.0, 5637.0, 5425.0, 5679.0, 5390.0, 5337.0, 5680.0, 5339.0, 5533.0, 5300.0, 5511.0, 5632.0, 5299.0, 5720.0, 5253.0, 5254.0, 5374.0, 5380.0, 5668.0, 5330.0, 5556.0, 5320.0, 5452.0, 5586.0, 5719.0, 5431.0, 5272.0, 5562.0, 5347.0, 5474.0, 5706.0, 5584.0, 5328.0, 5700.0, 5502.0, 5270.0, 5654.0, 5629.0, 5494.0, 5294.0, 5365.0, 5549.0, 5473.0, 5389.0, 5716.0, 5436.0, 5699.0, 5335.0, 5391.0, 5384.0, 5536.0, 5422.0, 5550.0, 5397.0, 5261.0, 5554.0, 5271.0, 5312.0, 5520.0, 5658.0, 5466.0, 5351.0, 5709.0, 5364.0, 5619.0, 5308.0, 5323.0, 5311.0, 5569.0, 5495.0, 5715.0, 5589.0, 5557.0, 5523.0, 5437.0, 5605.0, 5256.0, 5652.0, 5702.0, 5692.0 (number of hits: 8)
17	5280	9	1	333	1	5414.0, 5427.0, 5612.0, 5652.0, 5374.0, 5658.0, 5555.0, 5429.0, 5455.0, 5418.0, 5595.0, 5354.0, 5588.0, 5440.0, 5337.0, 5586.0, 5673.0, 5450.0, 5446.0, 5503.0, 5256.0, 5356.0, 5524.0, 5607.0, 5533.0, 5378.0, 5640.0, 5577.0, 5616.0, 5347.0, 5582.0, 5478.0, 5393.0, 5344.0, 5513.0, 5310.0, 5483.0, 5421.0, 5589.0, 5598.0, 5624.0, 5633.0, 5723.0, 5637.0, 5490.0, 5261.0, 5649.0, 5392.0, 5493.0, 5671.0, 5561.0, 5523.0, 5366.0, 5662.0, 5326.0, 5553.0, 5426.0, 5482.0, 5338.0, 5629.0,

						5290.0, 5697.0, 5549.0, 5714.0, 5594.0, 5476.0, 5255.0, 5471.0, 5361.0, 5252.0, 5564.0, 5581.0, 5276.0, 5299.0, 5560.0, 5663.0, 5369.0, 5381.0, 5435.0, 5323.0, 5566.0, 5712.0, 5425.0, 5643.0, 5529.0, 5623.0, 5325.0, 5665.0, 5397.0, 5251.0, 5701.0, 5386.0, 5683.0, 5282.0, 5385.0, 5396.0, 5699.0, 5583.0, 5257.0, 5329.0 (number of hits: 3)
18	5280	9	1	333	1	5465.0, 5521.0, 5672.0, 5455.0, 5394.0, 5643.0, 5287.0, 5668.0, 5439.0, 5381.0, 5508.0, 5509.0, 5461.0, 5720.0, 5677.0, 5713.0, 5438.0, 5542.0, 5722.0, 5445.0, 5546.0, 5628.0, 5472.0, 5693.0, 5434.0, 5308.0, 5359.0, 5587.0, 5354.0, 5340.0, 5575.0, 5548.0, 5450.0, 5391.0, 5253.0, 5332.0, 5453.0, 5283.0, 5691.0, 5637.0, 5603.0, 5665.0, 5479.0, 5468.0, 5681.0, 5269.0, 5648.0, 5457.0, 5712.0, 5629.0, 5549.0, 5620.0, 5326.0, 5638.0, 5423.0, 5274.0, 5441.0, 5255.0, 5658.0, 5437.0, 5563.0, 5551.0, 5342.0, 5320.0, 5602.0, 5534.0, 5517.0, 5581.0, 5593.0, 5415.0, 5559.0, 5698.0, 5519.0, 5674.0, 5504.0, 5429.0, 5286.0, 5416.0, 5306.0, 5271.0, 5485.0, 5382.0, 5433.0, 5608.0, 5624.0, 5385.0, 5284.0, 5384.0, 5475.0, 5651.0, 5702.0, 5533.0, 5654.0, 5573.0, 5317.0, 5290.0, 5264.0, 5360.0, 5495.0, 5478.0 (number of hits: 5)
19	5280	9	1	333	1	5550.0, 5278.0, 5318.0, 5721.0, 5549.0, 5590.0, 5501.0, 5288.0, 5542.0, 5592.0, 5567.0, 5543.0, 5331.0, 5525.0, 5615.0, 5637.0, 5629.0, 5300.0, 5265.0, 5676.0, 5340.0, 5423.0, 5313.0, 5360.0, 5312.0, 5381.0, 5558.0, 5516.0, 5411.0, 5378.0, 5641.0, 5354.0, 5532.0, 5430.0, 5291.0, 5434.0, 5515.0, 5319.0, 5251.0, 5595.0, 5448.0, 5307.0, 5332.0, 5597.0, 5447.0, 5369.0, 5389.0, 5440.0, 5302.0, 5666.0, 5439.0, 5545.0, 5580.0, 5605.0, 5682.0, 5419.0, 5552.0, 5413.0, 5344.0, 5321.0, 5476.0, 5342.0, 5659.0, 5654.0, 5361.0, 5473.0, 5703.0, 5382.0, 5606.0, 5424.0, 5264.0, 5524.0, 5444.0, 5427.0, 5405.0, 5366.0, 5420.0, 5339.0, 5258.0, 5639.0, 5707.0, 5526.0, 5712.0, 5688.0, 5671.0, 5449.0, 5281.0, 5650.0, 5429.0, 5256.0, 5663.0, 5554.0, 5328.0, 5377.0, 5631.0, 5510.0, 5337.0, 5433.0, 5713.0, 5329.0 (number of hits: 7)
20	5280	9	1	333	1	5612.0, 5448.0, 5537.0, 5533.0, 5698.0, 5700.0, 5264.0, 5404.0, 5401.0, 5646.0, 5492.0, 5464.0, 5480.0, 5465.0, 5683.0, 5626.0, 5449.0, 5647.0, 5689.0, 5696.0, 5454.0, 5516.0, 5399.0, 5707.0, 5422.0, 5508.0, 5703.0, 5632.0, 5563.0, 5567.0, 5447.0, 5506.0, 5527.0, 5717.0, 5481.0, 5593.0, 5360.0, 5511.0, 5554.0, 5267.0,

						5281.0, 5466.0, 5306.0, 5715.0, 5620.0, 5642.0, 5519.0, 5604.0, 5713.0, 5674.0, 5581.0, 5498.0, 5606.0, 5679.0, 5477.0, 5662.0, 5479.0, 5605.0, 5299.0, 5261.0, 5385.0, 5425.0, 5608.0, 5255.0, 5541.0, 5402.0, 5483.0, 5712.0, 5252.0, 5542.0, 5426.0, 5628.0, 5701.0, 5609.0, 5514.0, 5341.0, 5295.0, 5491.0, 5364.0, 5445.0, 5708.0, 5391.0, 5389.0, 5486.0, 5297.0, 5409.0, 5406.0, 5272.0, 5557.0, 5677.0, 5502.0, 5540.0, 5433.0, 5282.0, 5520.0, 5471.0, 5262.0, 5574.0, 5338.0, 5580.0 (number of hits: 4)
21	5280	9	1	333	1	5495.0, 5534.0, 5631.0, 5661.0, 5685.0, 5453.0, 5488.0, 5660.0, 5391.0, 5412.0, 5368.0, 5711.0, 5403.0, 5691.0, 5713.0, 5381.0, 5644.0, 5573.0, 5275.0, 5665.0, 5476.0, 5602.0, 5718.0, 5390.0, 5292.0, 5320.0, 5286.0, 5639.0, 5410.0, 5556.0, 5561.0, 5378.0, 5506.0, 5364.0, 5427.0, 5581.0, 5441.0, 5272.0, 5583.0, 5593.0, 5469.0, 5719.0, 5608.0, 5574.0, 5712.0, 5715.0, 5559.0, 5450.0, 5468.0, 5499.0, 5485.0, 5696.0, 5424.0, 5338.0, 5345.0, 5315.0, 5654.0, 5517.0, 5294.0, 5288.0, 5647.0, 5589.0, 5609.0, 5565.0, 5353.0, 5336.0, 5404.0, 5279.0, 5399.0, 5396.0, 5689.0, 5664.0, 5394.0, 5293.0, 5431.0, 5637.0, 5591.0, 5465.0, 5417.0, 5356.0, 5550.0, 5284.0, 5464.0, 5305.0, 5668.0, 5447.0, 5416.0, 5619.0, 5541.0, 5577.0, 5339.0, 5266.0, 5572.0, 5709.0, 5716.0, 5557.0, 5437.0, 5567.0, 5511.0, 5688.0 (number of hits: 6)
22	5280	9	1	333	1	5589.0, 5384.0, 5467.0, 5626.0, 5400.0, 5581.0, 5370.0, 5600.0, 5713.0, 5593.0, 5447.0, 5610.0, 5646.0, 5366.0, 5259.0, 5464.0, 5709.0, 5435.0, 5585.0, 5393.0, 5256.0, 5267.0, 5511.0, 5266.0, 5440.0, 5277.0, 5595.0, 5566.0, 5678.0, 5336.0, 5639.0, 5597.0, 5590.0, 5493.0, 5594.0, 5281.0, 5683.0, 5446.0, 5296.0, 5265.0, 5651.0, 5656.0, 5405.0, 5394.0, 5617.0, 5522.0, 5441.0, 5432.0, 5356.0, 5546.0, 5429.0, 5659.0, 5545.0, 5389.0, 5672.0, 5686.0, 5382.0, 5375.0, 5294.0, 5489.0, 5537.0, 5505.0, 5532.0, 5406.0, 5272.0, 5275.0, 5573.0, 5299.0, 5642.0, 5510.0, 5516.0, 5363.0, 5426.0, 5572.0, 5503.0, 5630.0, 5496.0, 5391.0, 5653.0, 5708.0, 5663.0, 5411.0, 5670.0, 5387.0, 5638.0, 5283.0, 5618.0, 5295.0, 5258.0, 5264.0, 5461.0, 5352.0, 5362.0, 5556.0, 5681.0, 5599.0, 5262.0, 5655.0, 5482.0, 5330.0 (number of hits: 4)
23	5280	9	1	333	1	5308.0, 5491.0, 5374.0, 5282.0, 5347.0, 5312.0, 5588.0, 5528.0, 5629.0, 5456.0, 5413.0, 5683.0, 5688.0, 5583.0, 5506.0, 5273.0, 5291.0, 5451.0, 5267.0, 5567.0,

						5391.0, 5545.0, 5390.0, 5641.0, 5587.0, 5377.0, 5600.0, 5521.0, 5640.0, 5562.0, 5471.0, 5474.0, 5495.0, 5342.0, 5700.0, 5596.0, 5722.0, 5677.0, 5660.0, 5675.0, 5650.0, 5569.0, 5409.0, 5406.0, 5604.0, 5293.0, 5431.0, 5333.0, 5577.0, 5256.0, 5465.0, 5437.0, 5581.0, 5278.0, 5300.0, 5617.0, 5667.0, 5408.0, 5257.0, 5513.0, 5542.0, 5557.0, 5446.0, 5724.0, 5493.0, 5281.0, 5712.0, 5394.0, 5442.0, 5662.0, 5454.0, 5275.0, 5613.0, 5533.0, 5329.0, 5348.0, 5546.0, 5531.0, 5350.0, 5555.0, 5584.0, 5624.0, 5378.0, 5470.0, 5678.0, 5690.0, 5564.0, 5721.0, 5496.0, 5271.0, 5529.0, 5623.0, 5611.0, 5679.0, 5436.0, 5523.0, 5540.0, 5387.0, 5507.0, 5430.0 (number of hits: 5)
24	5280	9	1	333	1	5346.0, 5695.0, 5648.0, 5681.0, 5257.0, 5593.0, 5406.0, 5383.0, 5616.0, 5344.0, 5674.0, 5370.0, 5601.0, 5267.0, 5536.0, 5252.0, 5430.0, 5427.0, 5633.0, 5475.0, 5720.0, 5472.0, 5280.0, 5415.0, 5366.0, 5368.0, 5653.0, 5562.0, 5359.0, 5259.0, 5310.0, 5375.0, 5686.0, 5618.0, 5468.0, 5696.0, 5300.0, 5274.0, 5485.0, 5617.0, 5393.0, 5521.0, 5323.0, 5400.0, 5699.0, 5624.0, 5384.0, 5335.0, 5469.0, 5519.0, 5287.0, 5555.0, 5271.0, 5330.0, 5286.0, 5557.0, 5660.0, 5262.0, 5452.0, 5629.0, 5680.0, 5461.0, 5526.0, 5586.0, 5662.0, 5713.0, 5338.0, 5432.0, 5665.0, 5637.0, 5376.0, 5275.0, 5372.0, 5497.0, 5661.0, 5688.0, 5404.0, 5675.0, 5566.0, 5507.0, 5478.0, 5320.0, 5453.0, 5505.0, 5613.0, 5465.0, 5303.0, 5418.0, 5684.0, 5396.0, 5718.0, 5512.0, 5577.0, 5341.0, 5258.0, 5587.0, 5479.0, 5304.0, 5663.0, 5493.0 (number of hits: 6)
25	5280	9	1	333	1	5556.0, 5620.0, 5551.0, 5345.0, 5514.0, 5622.0, 5621.0, 5599.0, 5409.0, 5563.0, 5492.0, 5696.0, 5497.0, 5558.0, 5263.0, 5396.0, 5306.0, 5391.0, 5597.0, 5332.0, 5398.0, 5361.0, 5559.0, 5606.0, 5369.0, 5512.0, 5609.0, 5393.0, 5374.0, 5655.0, 5444.0, 5288.0, 5524.0, 5530.0, 5335.0, 5540.0, 5564.0, 5637.0, 5301.0, 5572.0, 5298.0, 5347.0, 5413.0, 5515.0, 5549.0, 5565.0, 5412.0, 5616.0, 5331.0, 5271.0, 5352.0, 5527.0, 5364.0, 5634.0, 5299.0, 5544.0, 5390.0, 5292.0, 5523.0, 5536.0, 5715.0, 5344.0, 5462.0, 5528.0, 5511.0, 5629.0, 5372.0, 5562.0, 5516.0, 5566.0, 5624.0, 5703.0, 5254.0, 5367.0, 5499.0, 5429.0, 5507.0, 5653.0, 5676.0, 5674.0, 5610.0, 5518.0, 5716.0, 5297.0, 5652.0, 5322.0, 5571.0, 5323.0, 5508.0, 5376.0, 5596.0, 5365.0, 5682.0, 5543.0, 5577.0, 5608.0, 5491.0, 5705.0, 5667.0, 5311.0 (number of hits: 8)

26	5280	9	1	333	1	5704.0, 5460.0, 5279.0, 5481.0, 5492.0, 5687.0, 5432.0, 5668.0, 5314.0, 5440.0, 5692.0, 5333.0, 5315.0, 5506.0, 5339.0, 5488.0, 5619.0, 5522.0, 5580.0, 5257.0, 5459.0, 5290.0, 5513.0, 5332.0, 5644.0, 5328.0, 5469.0, 5638.0, 5594.0, 5606.0, 5685.0, 5430.0, 5301.0, 5305.0, 5360.0, 5510.0, 5269.0, 5356.0, 5369.0, 5681.0, 5645.0, 5717.0, 5450.0, 5532.0, 5574.0, 5674.0, 5568.0, 5408.0, 5613.0, 5567.0, 5505.0, 5504.0, 5721.0, 5389.0, 5679.0, 5361.0, 5404.0, 5374.0, 5348.0, 5462.0, 5508.0, 5477.0, 5711.0, 5306.0, 5694.0, 5622.0, 5583.0, 5413.0, 5296.0, 5294.0, 5593.0, 5654.0, 5599.0, 5695.0, 5353.0, 5449.0, 5517.0, 5680.0, 5300.0, 5592.0, 5669.0, 5648.0, 5382.0, 5612.0, 5357.0, 5486.0, 5569.0, 5690.0, 5604.0, 5391.0, 5507.0, 5277.0, 5703.0, 5653.0, 5629.0, 5652.0, 5298.0, 5723.0, 5270.0, 5535.0 (number of hits: 9)
27	5280	9	1	333	1	5336.0, 5376.0, 5553.0, 5303.0, 5499.0, 5676.0, 5254.0, 5563.0, 5576.0, 5560.0, 5334.0, 5264.0, 5286.0, 5589.0, 5357.0, 5251.0, 5410.0, 5473.0, 5479.0, 5598.0, 5480.0, 5624.0, 5427.0, 5552.0, 5629.0, 5333.0, 5572.0, 5637.0, 5459.0, 5529.0, 5404.0, 5409.0, 5266.0, 5400.0, 5305.0, 5358.0, 5412.0, 5607.0, 5335.0, 5518.0, 5615.0, 5699.0, 5462.0, 5356.0, 5344.0, 5606.0, 5539.0, 5549.0, 5723.0, 5446.0, 5395.0, 5627.0, 5620.0, 5315.0, 5684.0, 5382.0, 5708.0, 5450.0, 5384.0, 5611.0, 5671.0, 5469.0, 5267.0, 5255.0, 5428.0, 5651.0, 5300.0, 5392.0, 5391.0, 5363.0, 5680.0, 5294.0, 5555.0, 5411.0, 5614.0, 5387.0, 5540.0, 5653.0, 5659.0, 5316.0, 5618.0, 5279.0, 5309.0, 5528.0, 5340.0, 5537.0, 5398.0, 5329.0, 5456.0, 5471.0, 5702.0, 5639.0, 5368.0, 5567.0, 5717.0, 5317.0, 5694.0, 5595.0, 5675.0, 5383.0 (number of hits: 6)
28	5280	9	1	333	1	5654.0, 5501.0, 5338.0, 5534.0, 5722.0, 5269.0, 5265.0, 5358.0, 5706.0, 5321.0, 5253.0, 5374.0, 5660.0, 5438.0, 5514.0, 5340.0, 5690.0, 5446.0, 5286.0, 5696.0, 5505.0, 5699.0, 5498.0, 5629.0, 5548.0, 5558.0, 5456.0, 5525.0, 5583.0, 5509.0, 5601.0, 5529.0, 5410.0, 5452.0, 5316.0, 5370.0, 5618.0, 5537.0, 5623.0, 5429.0, 5250.0, 5703.0, 5557.0, 5458.0, 5328.0, 5595.0, 5353.0, 5589.0, 5625.0, 5335.0, 5495.0, 5263.0, 5450.0, 5468.0, 5465.0, 5319.0, 5499.0, 5599.0, 5444.0, 5538.0, 5551.0, 5404.0, 5457.0, 5415.0, 5327.0, 5492.0, 5413.0, 5630.0, 5605.0, 5395.0, 5652.0, 5258.0, 5667.0, 5564.0, 5578.0, 5357.0, 5252.0, 5708.0, 5291.0, 5530.0, 5275.0, 5276.0, 5284.0, 5435.0, 5334.0,

						5386.0, 5687.0, 5473.0, 5686.0, 5347.0, 5645.0, 5416.0, 5455.0, 5556.0, 5697.0, 5437.0, 5466.0, 5460.0, 5307.0, 5671.0 (number of hits: 3)
29	5280	9	1	333	1	5624.0, 5501.0, 5492.0, 5542.0, 5721.0, 5505.0, 5413.0, 5394.0, 5485.0, 5333.0, 5296.0, 5683.0, 5486.0, 5303.0, 5637.0, 5444.0, 5638.0, 5555.0, 5431.0, 5365.0, 5363.0, 5428.0, 5279.0, 5254.0, 5349.0, 5340.0, 5707.0, 5308.0, 5636.0, 5464.0, 5608.0, 5306.0, 5408.0, 5553.0, 5454.0, 5709.0, 5649.0, 5459.0, 5547.0, 5370.0, 5718.0, 5537.0, 5403.0, 5690.0, 5251.0, 5572.0, 5362.0, 5621.0, 5373.0, 5278.0, 5267.0, 5689.0, 5680.0, 5456.0, 5418.0, 5503.0, 5401.0, 5681.0, 5315.0, 5293.0, 5438.0, 5695.0, 5720.0, 5302.0, 5327.0, 5517.0, 5661.0, 5582.0, 5534.0, 5488.0, 5399.0, 5260.0, 5665.0, 5382.0, 5314.0, 5554.0, 5706.0, 5287.0, 5447.0, 5443.0, 5570.0, 5304.0, 5288.0, 5389.0, 5604.0, 5691.0, 5336.0, 5512.0, 5490.0, 5368.0, 5345.0, 5556.0, 5673.0, 5677.0, 5259.0, 5483.0, 5437.0, 5358.0, 5295.0, 5411.0 (number of hits: 11)
30	5280	9	1	333	1	5305.0, 5327.0, 5465.0, 5710.0, 5321.0, 5256.0, 5609.0, 5624.0, 5284.0, 5381.0, 5696.0, 5390.0, 5264.0, 5269.0, 5717.0, 5631.0, 5307.0, 5540.0, 5372.0, 5559.0, 5487.0, 5483.0, 5543.0, 5411.0, 5347.0, 5457.0, 5669.0, 5410.0, 5599.0, 5444.0, 5509.0, 5676.0, 5561.0, 5596.0, 5464.0, 5349.0, 5572.0, 5724.0, 5656.0, 5637.0, 5348.0, 5463.0, 5654.0, 5578.0, 5643.0, 5498.0, 5602.0, 5638.0, 5448.0, 5711.0, 5679.0, 5507.0, 5455.0, 5648.0, 5722.0, 5539.0, 5404.0, 5453.0, 5373.0, 5273.0, 5674.0, 5686.0, 5652.0, 5409.0, 5568.0, 5499.0, 5472.0, 5436.0, 5513.0, 5672.0, 5635.0, 5713.0, 5502.0, 5688.0, 5595.0, 5701.0, 5514.0, 5573.0, 5250.0, 5399.0, 5687.0, 5338.0, 5447.0, 5295.0, 5556.0, 5406.0, 5416.0, 5480.0, 5342.0, 5552.0, 5366.0, 5281.0, 5469.0, 5255.0, 5427.0, 5601.0, 5632.0, 5459.0, 5431.0, 5336.0 (number of hits: 3)

5580 MHz, 20 MHz Bandwidth

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1	30	100 %	60%	Pass
Type 2	30	96.7 %	60%	Pass
Type 3	30	100 %	60%	Pass
Type 4	30	100 %	60%	Pass
Aggregate (Type1 to 4)	120	99.175 %	80%	Pass
Type 5	30	100 %	80%	Pass
Type 6	30	100 %	70%	Pass

Please refer to the following statistical tables:

5580MHz

Table-1 Radar Type 1 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5580	18	1	1428	1
2	5580	18	1	1428	1
3	5580	18	1	1428	1
4	5580	18	1	1428	1
5	5580	18	1	1428	1
6	5580	18	1	1428	1
7	5580	18	1	1428	1
8	5580	18	1	1428	1
9	5580	18	1	1428	1
10	5580	18	1	1428	1
11	5580	18	1	1428	1
12	5580	18	1	1428	1
13	5580	18	1	1428	1
14	5580	18	1	1428	1
15	5580	18	1	1428	1
16	5580	18	1	1428	1
17	5580	18	1	1428	1
18	5580	18	1	1428	1
19	5580	18	1	1428	1
20	5580	18	1	1428	1
21	5580	18	1	1428	1
22	5580	18	1	1428	1
23	5580	18	1	1428	1
24	5580	18	1	1428	1
25	5580	18	1	1428	1
26	5580	18	1	1428	1
27	5580	18	1	1428	1
28	5580	18	1	1428	1
29	5580	18	1	1428	1
30	5580	18	1	1428	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	5580	29	3	191	1
2	5580	23	4.7	222	1
3	5580	24	4.2	219	1
4	5580	29	3.4	186	1
5	5580	28	2.3	166	1
6	5580	24	1.2	215	1
7	5580	24	1.5	175	1
8	5580	23	4.2	216	1
9	5580	23	3.7	168	1
10	5580	26	4.8	184	1
11	5580	24	1.5	200	1
12	5580	28	1.7	227	1
13	5580	29	3.6	178	1
14	5580	23	4.5	230	0
15	5580	24	4.8	176	1
16	5580	27	2.9	155	1
17	5580	23	3.3	205	1
18	5580	28	5	164	1
19	5580	27	5	220	1
20	5580	29	3.1	158	1
21	5580	24	2.4	194	1
22	5580	25	4.5	183	1
23	5580	29	3.9	230	1
24	5580	24	1.6	150	1
25	5580	29	2.9	175	1
26	5580	26	1.8	175	1
27	5580	29	3.3	217	1
28	5580	23	4.2	174	1
29	5580	25	2.4	195	1
30	5580	23	2.1	162	1

Detection Percentage: 96.7 % (>60%)

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5580	18	9.6	406	1
2	5580	18	9.4	326	1
3	5580	16	8.9	494	1
4	5580	17	8.8	449	1
5	5580	16	7.5	391	1
6	5580	17	7.1	309	1
7	5580	18	6.7	283	1
8	5580	17	7.9	353	1
9	5580	17	6.5	305	1
10	5580	16	8	213	1
11	5580	17	6.8	225	1
12	5580	18	6.3	365	1
13	5580	16	8.7	449	1
14	5580	18	6	250	1
15	5580	16	6.5	276	1
16	5580	17	9.6	258	1
17	5580	18	7.2	343	1
18	5580	16	6.5	343	1
19	5580	16	7.8	362	1
20	5580	16	6.1	456	1
21	5580	17	6.6	373	1
22	5580	16	8.1	337	1
23	5580	17	9.5	485	1
24	5580	17	9.2	305	1
25	5580	16	6.5	333	1
26	5580	16	9.5	250	1
27	5580	16	8.5	275	1
28	5580	17	9.9	277	1
29	5580	17	9.2	241	1
30	5580	18	9.3	343	1
Detection Percentage: 100 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5580	16	14.6	451	1
2	5580	13	15.3	479	1
3	5580	13	14.7	200	1
4	5580	16	17.7	290	1
5	5580	15	19.7	319	1
6	5580	14	16.6	379	1
7	5580	14	15.3	240	1
8	5580	15	19.1	303	1
9	5580	16	16.3	351	1
10	5580	16	17.9	285	1
11	5580	15	12.8	315	1
12	5580	15	14.8	385	1
13	5580	13	19.9	479	1
14	5580	14	11.4	314	1
15	5580	16	15.7	436	1
16	5580	13	12.2	373	1
17	5580	16	17.7	308	1
18	5580	16	15.6	314	1
19	5580	14	14.4	329	1
20	5580	15	19.1	340	1
21	5580	12	19.6	456	1
22	5580	15	18.7	289	1
23	5580	15	14.6	484	1
24	5580	13	16	437	1
25	5580	16	17.6	428	1
26	5580	13	17.1	294	1
27	5580	14	17.4	362	1
28	5580	15	15.5	415	1
29	5580	16	15.1	282	1
30	5580	15	11.7	306	1
Detection Percentage: 100 % (>60%)					

Table-5 Radar Type 5 Statistical Performance

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	2	12	59.2	1379		0.371843	
1	3	12	64.5	1258	1961	2.029073	
2	3	8	92.9	1624	1951	3.614518	
3	1	16	96.1			4.667335	
4	2	15	98.9	1017		5.923612	1
5	1	11	51.4			7.348251	
6	3	11	63.1	1493	1993	8.981458	
7	3	6	71	1724	1106	10.623255	
8	2	11	86.4	1884		11.95588	

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	19	54.8	1761		0.355793	
1	2	10	79.1	1484		0.9717	
2	1	17	58.3			2.055885	
3	3	8	73	1015	1134	2.227986	
4	1	11	77.3			3.127578	
5	2	9	57.9	1755		4.078112	
6	2	11	71.4	1191		4.581652	
7	1	15	97			5.609854	
8	1	12	80.3			6.053409	1
9	3	18	88.7	1036	1432	6.398351	
10	1	13	53.8			7.685168	
11	2	17	67.5	1207		8.088184	
12	1	9	84.6			8.813298	
13	1	6	92.5			9.360101	
14	2	5	91.5	1679		10.236929	
15	2	16	88.3	1267		11.255366	
16	2	10	84.2	1311		11.300222	

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	1	6	71.8			0.0418	
1	2	16	94.8	1225		1.616224	
2	1	15	59.4			2.086264	
3	3	15	83.5	1468	1192	2.760927	
4	2	6	92.5	1469		3.982949	
5	1	6	73.1			4.630467	
6	2	11	52.6	1106		5.889265	1
7	1	9	90.7			6.519334	
8	3	11	56.7	1414	1200	7.376232	
9	2	11	56	1788		8.356351	
10	2	11	54	1716		9.378692	
11	2	7	84.1	1373		9.72536	
12	2	19	57.3	1380		10.858131	
13	2	7	51.8	1045		11.895984	

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	5	90.8	1318	1257	1.352215	
1	3	17	92.3	1733	1311	2.809962	
2	1	15	85.7			3.66722	
3	3	10	93.8	1457	1765	5.535773	1
4	2	18	97.5	1393		7.409005	
5	3	6	98.6	1153	1783	7.662733	
6	3	7	88.4	1965	1309	9.726725	
7	2	7	86.8	1857		11.81147	

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	80.9			0.707948	
1	1	20	50.7			1.566394	
2	2	14	88.4	1261		3.852912	
3	2	18	50.2	1023		5.275106	
4	1	19	83.4			6.441999	1
5	2	11	75.1	1011		6.921434	
6	2	19	61.1	1360		8.443508	
7	3	17	85.3	1032	1782	9.746846	
8	2	11	62.5	1381		10.863152	

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	12	50.9			0.100731	
1	2	17	71.2	1052		1.440478	
2	3	12	93.5	1702	1078	1.703795	
3	3	10	75.9	1424	1348	2.572517	
4	2	14	54.8	1617		3.644728	
5	1	14	86.2			3.98782	
6	2	16	97.8	1667		4.551289	
7	2	17	68.7	1733		5.396132	
8	1	6	90.7			6.16572	1
9	2	18	95.4	1493		7.431661	
10	3	11	97.2	1332	1087	8.093375	
11	2	7	81.9	1868		8.927328	
12	2	12	60.9	1053		9.153875	
13	3	6	69.8	1142	1963	9.833189	
14	2	13	62.9	1876		10.664915	
15	2	16	68.9	1623		11.374284	

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	17	75.9	1448		0.281325	
1	3	7	94.6	1776	1905	0.854882	
2	2	13	62.5	1425		1.41117	
3	2	19	87.9	1484		2.382623	
4	1	12	82.6			2.58542	
5	1	6	89.1			3.44656	
6	2	14	65.1	1983		4.034212	
7	3	19	90.7	1511	1405	4.728805	
8	1	19	57			5.112093	
9	1	16	88.8			5.402261	
10	1	6	82.6			6.366192	1
11	1	14	67.7			6.791896	
12	2	8	77.5	1845		7.69644	
13	2	19	76.3	1261		8.100653	
14	3	7	64.8	1487	1007	8.724317	
15	2	10	51	1889		9.136643	
16	3	14	79.1	1517	1634	9.941926	
17	1	12	93.8			10.528794	
18	1	8	76.3			11.044698	
19	3	12	54.3	1860	1643	11.546254	

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	13	53	1289	1998	0.500999	
1	1	8	86.5			1.358588	
2	3	19	79	1457	1408	1.439683	
3	3	6	57.2	1334	1779	2.124856	
4	2	18	66.3	1003		3.468957	
5	2	18	60	1795		3.589651	
6	1	8	64.7			4.763436	
7	3	16	87.9	1913	1525	5.124974	
8	2	11	69.7	1428		6.281537	1
9	2	13	74.3	1873		6.723391	
10	3	15	75.5	1256	1283	7.466557	
11	3	15	75.5	1098	1602	7.79889	
12	3	10	82.9	1424	1237	8.850053	
13	3	10	71.6	1110	1179	9.611354	
14	2	6	80.6	1912		10.45845	
15	2	16	55.1	1340		10.628366	
16	1	12	85			11.964043	

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	11	89.8	1642	1638	0.260878	
1	2	15	77.4	1943		1.472706	
2	1	5	88			2.171452	
3	3	15	73.9	1342	1178	3.240359	
4	1	10	74.4			4.40537	
5	2	13	95.1	1644		5.40898	
6	2	5	65.1	1049		6.118508	1
7	3	16	75.2	1021	1935	7.75988	
8	1	9	66.7			8.623477	
9	3	6	77.2	1377	1097	9.990806	
10	1	20	91.4			10.414085	
11	2	6	98.3	1011		11.160876	

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	13	76.4	1061	1015	0.296867	
1	2	12	76.8	1113		0.70037	
2	3	5	82.7	1965	1274	1.816147	
3	3	11	55.5	1913	1342	2.481174	
4	3	8	70.3	1818	1898	2.822464	
5	1	10	87.1			3.452258	
6	1	19	70.7			4.519844	
7	2	16	62.5	1690		5.221229	
8	1	14	56.1			5.472884	
9	2	5	71.4	1782		6.145242	1
10	3	19	54.8	1831	1999	6.997601	
11	3	16	90.4	1045	1190	7.494388	
12	2	15	79.9	1552		8.292881	
13	2	16	93.2	1500		9.172903	
14	2	5	59	1923		9.441955	
15	3	9	73.8	1350	1450	10.220548	
16	2	16	79.1	1715		10.890205	
17	3	10	91	1857	1664	11.934925	

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	12	65.6			0.782104	
1	3	5	78.4	1099	1684	1.056309	
2	2	9	95.1	1471		2.02475	
3	1	10	74.2			3.113198	
4	2	18	76	1314		3.609901	
5	2	5	93.2	1912		4.271125	
6	2	12	80.4	1660		5.520835	
7	1	10	66.3			5.614164	1
8	1	10	98.7			7.040048	
9	2	11	52.9	1017		7.575416	
10	3	7	61	1783	1367	8.567646	
11	2	12	72.7	1819		8.890202	
12	2	16	79.7	1341		9.818171	
13	2	12	77.4	1912		10.982725	
14	3	20	92.9	1282	1305	11.770031	

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	3	10	84.1	1556	1693	0.287382	
1	3	16	85.6	1648	1402	1.98102	
2	1	8	72.8			2.632027	
3	1	15	52.7			4.398295	
4	2	9	56.5	1806		5.814943	
5	2	13	91.4	1900		6.663929	1
6	1	13	76.6			7.646819	
7	3	17	87	1353	1083	8.937974	
8	2	6	77.1	1733		10.364315	
9	2	12	74.2	1862		11.742574	

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	11	57.4	1231		0.530972	
1	3	9	58.6	1850	1331	1.017208	
2	3	6	74.3	1136	1089	1.39681	
3	1	17	77.8			2.295521	
4	2	14	60.2	1142		3.107106	
5	2	12	82.3	1863		3.436425	
6	3	15	76.5	1664	1715	4.066491	
7	2	7	96.5	1979		4.97736	
8	2	12	80	1404		5.564139	
9	1	14	66.7			6.016969	1
10	3	14	90.6	1165	1541	6.843895	
11	3	5	79.8	1332	1801	7.675529	
12	3	8	73.9	1817	1098	8.256428	
13	1	11	55.2			9.046762	
14	3	14	50.6	1158	1293	9.515406	
15	2	7	56.5	1069		10.247811	
16	2	8	84.7	1794		10.974658	
17	2	17	72.9	1210		11.830197	

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	15	58.8			0.54074	
1	1	13	64.2			2.466418	
2	2	6	81.1	1540		3.589944	
3	2	12	72.1	1468		4.950175	
4	2	16	83.2	1974		6.5813	1
5	3	6	81	1231	1600	8.866991	
6	2	17	92.5	1418		10.320722	
7	3	15	86.3	1183	1432	11.259127	

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	10	99.6	1196	1080	0.958055	
1	1	17	92.9			2.993131	
2	2	14	53.7	1003		3.366621	
3	2	9	81.8	1514		4.766821	
4	2	13	70.3	1344		7.00823	1
5	1	7	81.5			8.895412	
6	1	20	54.4			10.052655	
7	2	5	64.6	1740		11.676919	

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	18	55.5	1530		0.197337	
1	1	15	72			1.569642	
2	1	12	85			2.427584	
3	3	20	55.8	1464	1782	3.647387	
4	2	13	84.5	1530		3.73028	
5	3	15	65.7	1652	1729	4.767137	
6	2	10	81.7	1058		6.437805	1
7	2	10	79.2	1006		7.174394	
8	3	5	74.7	1372	1982	7.702129	
9	3	8	98.7	1654	1310	9.183326	
10	2	7	55.4	1290		9.490115	
11	3	19	83.9	1749	1444	10.214823	
12	3	15	71.6	1392	1899	11.728951	

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	86.3	1712		0.251456	
1	1	19	65.8			1.561848	
2	2	18	70.9	1049		3.509817	
3	3	12	83	1723	1279	4.449278	
4	3	7	57.1	1387	1267	6.32827	1
5	1	12	52.4			7.820242	
6	2	14	68.4	1958		8.888277	
7	2	17	97.5	1055		9.602692	
8	2	19	71.5	1653		11.122402	

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	13	79.6	1877		0.267623	
1	2	19	65.9	1634		1.106299	
2	2	17	57	1978		1.370245	
3	3	13	55.1	1405	1016	2.010148	
4	3	13	98.8	1599	1457	3.121849	
5	2	11	96.1	1998		3.191995	
6	3	10	96.3	1994	1636	4.32992	
7	1	12	58.4			4.452004	
8	3	18	59.9	1616	1184	5.091506	
9	2	6	61.4	1920		6.165206	1
10	3	18	65.5	1984	1176	6.341297	
11	2	12	54.2	1143		7.44764	
12	2	15	93.7	1769		7.871305	
13	1	10	96.5			8.743778	
14	2	18	51.1	1772		8.931823	
15	2	14	76.2	1095		9.962955	
16	1	5	83			10.208063	
17	1	19	55.5			10.958137	
18	1	18	74.5			11.586775	

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	14	93.3	1279		0.211218	
1	2	20	65.1	1194		1.229464	
2	1	15	63.9			1.725361	
3	3	14	92.1	1835	1800	3.105956	
4	2	6	87	1913		3.634772	
5	2	12	58.4	1291		4.369977	
6	2	13	55	1506		5.435401	
7	2	20	55	1449		5.921472	1
8	3	11	56	1109	1842	6.483373	
9	2	18	51	1482		7.83056	
10	3	19	61.2	1588	1469	8.225418	
11	1	10	57.1			9.282745	
12	3	6	92.7	1425	1470	9.95531	
13	2	10	57.1	1448		10.952901	
14	2	12	55.3	1612		11.548012	

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	72.1	1874		0.430297	
1	3	6	53.4	1322	1487	0.880642	
2	2	15	99.5	1377		2.208352	
3	2	5	84.7	1509		2.396598	
4	3	14	72.6	1088	1498	3.622797	
5	3	16	70.9	1447	1830	4.336036	
6	2	16	94.8	1631		4.641254	
7	1	11	84.9			5.920556	
8	2	17	77.6	1370		6.549901	1
9	3	12	66.9	1395	1110	7.041419	
10	3	16	73.2	1948	1566	8.14119	
11	2	18	90	1103		8.452081	
12	2	15	91.4	1288		9.527049	
13	1	12	86.7			10.042037	
14	1	12	86.3			10.945489	
15	1	10	78.3			11.398438	

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	14	97.2	1657		0.273823	
1	3	15	70.8	1177	1631	1.177114	
2	3	8	97.1	1011	1725	2.21717	
3	2	17	52.3	1008		2.265096	
4	2	7	89	1362		3.344922	
5	1	8	79.7			4.089213	
6	3	10	58.9	1364	1162	4.510464	
7	2	14	91.4	1150		5.26843	
8	2	10	90.8	1801		6.161822	1
9	3	5	78.5	1709	1052	7.488428	
10	2	6	53.3	1004		7.657687	
11	3	12	65.4	1320	1877	8.607761	
12	2	15	61.6	1867		9.54356	
13	1	10	92.6			9.758932	
14	2	11	85.2	1903		10.899294	
15	2	16	60	1175		11.380946	

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	54.6	1979		1.07287	
1	2	15	78.2	1001		1.241666	
2	2	6	63.2	1929		3.538541	
3	2	12	65.4	1082		4.44112	
4	2	11	87.7	1574		5.61777	1
5	3	7	70.2	1819	1989	6.63731	
6	3	19	54.9	1918	1493	7.994133	
7	3	7	75.5	1679	1716	8.796589	
8	2	9	66.8	1456		10.017246	
9	2	15	99.9	1982		11.040742	

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	7	72.8	1046		1.111379	
1	3	19	92.6	1823	1789	2.085714	
2	2	14	97.7	1231		3.093353	
3	2	5	83.1	1292		4.573715	
4	3	8	52.8	1546	1825	6.35278	1
5	2	6	69.6	1956		6.682207	
6	3	13	56.8	1686	1766	8.355256	
7	2	10	64	1260		9.417988	
8	2	8	99.9	1711		10.984722	

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	17	92.1			0.030613	
1	2	10	90.9	1637		0.923281	
2	3	11	77.7	1952	1045	1.78961	
3	2	5	59.8	1986		2.390289	
4	1	17	68.9			2.560573	
5	1	5	50.4			3.557676	
6	3	7	92	1721	1916	3.788093	
7	3	16	98.9	1990	1605	4.233048	
8	1	11	64.4			4.900105	
9	1	15	79.4			5.787522	
10	2	20	74.1	1990		6.01198	1
11	2	12	60.8	1069		7.118762	
12	3	9	67.5	1199	1802	7.648947	
13	2	17	77.6	1307		8.059068	
14	3	18	81.6	1596	1326	8.914753	
15	3	10	93.4	1754	1739	9.208421	
16	3	14	54.5	1115	1710	9.806465	
17	1	12	54.5			10.741522	
18	3	20	75.6	1368	1325	11.048371	
19	3	6	70.6	1171	1021	11.965444	

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	3	5	97.4	1238	1110	0.436592	
1	2	20	94	1607		1.046971	
2	2	11	99.5	1177		1.379172	
3	2	18	98.5	1207		2.054366	
4	3	16	63.8	1404	1564	2.523661	
5	3	8	66.1	1585	1404	3.188698	
6	2	14	66.8	1158		3.693933	
7	1	10	54.6			4.537966	
8	3	14	90.9	1039	1484	5.330963	
9	3	10	59.9	1799	1868	5.431752	
10	3	19	69.3	1047	1349	6.386144	1
11	3	12	57.7	1001	1685	7.100504	
12	2	13	80.9	1134		7.492688	
13	2	13	73.9	1762		7.900953	
14	2	9	74.5	1641		8.50204	
15	2	18	76.6	1526		9.205122	
16	2	10	63.2	1726		10.06399	
17	1	10	72.7			10.690237	
18	1	13	80.8			10.985017	
19	2	10	79.9	1161		11.410102	

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	10	61.5	1997		0.554026	
1	1	16	57.8			1.469785	
2	2	13	57.5	1635		1.949978	
3	2	9	61.3	1874		2.986863	
4	2	13	61.5	1034		3.155088	
5	2	8	60.7	1350		3.949771	
6	2	5	69.8	1370		4.952587	
7	1	7	50.2			5.38673	
8	2	20	93.6	1443		6.535882	1
9	2	7	87.7	1418		7.040248	
10	2	15	56.8	1035		7.557705	
11	2	13	89.3	1654		8.438106	
12	1	13	91.3			9.348471	
13	1	6	69.2			10.157297	
14	2	6	94.9	1612		11.080408	
15	2	20	78.9	1171		11.894402	

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	13	84.7	1898		0.602031	
1	3	7	53.7	1218	1971	0.924995	
2	3	15	79.2	1877	1374	1.467324	
3	2	18	68.3	1336		2.620819	
4	3	17	87.2	1785	1515	3.094931	
5	1	6	75.1			3.497591	
6	2	13	81.1	1862		4.089022	
7	2	6	59.9	1162		4.888819	
8	1	16	89.3			5.739462	
9	2	5	93.5	1923		6.370996	1
10	2	16	87.3	1277		6.993861	
11	2	11	54.3	1315		7.552824	
12	3	13	83.3	1145	1620	8.06971	
13	1	8	83.1			8.997354	
14	1	10	85.6			9.465339	
15	1	10	65.8			10.250555	
16	3	9	76.4	1066	1321	10.852806	
17	1	12	56.5			11.576632	

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	8	69.3	1788		1.034401	
1	2	16	72.4	1327		2.273635	
2	2	14	78.7	1323		3.392802	
3	2	5	73.5	1969		4.164775	
4	1	7	76.2			5.567413	1
5	1	6	65.2			6.240507	
6	2	13	78.4	1932		8.365611	
7	1	7	51.6			9.413501	
8	2	12	54.4	1250		9.623675	
9	3	7	75.1	1032	1613	11.138098	

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	10	78.8			0.890717	
1	2	7	76	1671		1.286623	
2	3	10	83.5	1862	1837	2.922365	
3	2	13	58.5	1327		4.159815	
4	2	8	53.8	1794		4.86165	
5	2	12	95.3	1366		5.667278	1
6	3	5	51.7	1983	1714	7.008235	
7	2	11	69.7	1616		7.833895	
8	1	8	73.3			8.952973	
9	2	7	84.3	1914		10.716928	
10	3	7	51.8	1538	1337	10.961174	

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	87.4	1041		0.082208	
1	3	18	64.9	1297	1115	2.19648	
2	3	16	63.5	1170	1989	3.469967	
3	1	19	52.9			4.360298	
4	2	18	61	1576		5.170794	1
5	2	17	51.4	1057		6.760606	
6	2	19	88	1505		7.515074	
7	2	19	60.4	1044		8.520111	
8	2	18	91.9	1885		9.77693	
9	2	13	56.8	1839		11.564793	

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	5580	9	1	333	1	5528.0, 5465.0, 5478.0, 5491.0, 5290.0, 5518.0, 5554.0, 5486.0, 5303.0, 5453.0, 5479.0, 5716.0, 5313.0, 5314.0, 5454.0, 5710.0, 5559.0, 5482.0, 5285.0, 5723.0, 5254.0, 5608.0, 5310.0, 5295.0, 5502.0, 5505.0, 5429.0, 5707.0, 5425.0, 5541.0, 5609.0, 5497.0, 5388.0, 5584.0, 5327.0, 5280.0, 5719.0, 5357.0, 5582.0, 5389.0, 5398.0, 5406.0, 5255.0, 5450.0, 5318.0, 5421.0, 5379.0, 5337.0, 5718.0, 5462.0, 5443.0, 5366.0, 5535.0, 5420.0, 5468.0, 5277.0, 5268.0, 5458.0, 5483.0, 5562.0, 5394.0, 5252.0, 5371.0, 5520.0, 5343.0, 5452.0, 5594.0, 5361.0, 5378.0, 5477.0, 5459.0, 5322.0, 5386.0, 5306.0, 5703.0, 5683.0, 5533.0, 5612.0, 5417.0, 5662.0, 5397.0, 5617.0, 5315.0, 5712.0, 5536.0, 5276.0, 5435.0, 5414.0, 5531.0, 5476.0, 5720.0, 5715.0, 5573.0, 5264.0, 5500.0, 5506.0, 5284.0, 5367.0, 5666.0, 5570.0 (number of hits: 8)
2	5580	9	1	333	1	5503.0, 5641.0, 5528.0, 5385.0, 5549.0, 5505.0, 5259.0, 5305.0, 5482.0, 5297.0, 5677.0, 5511.0, 5284.0, 5662.0, 5497.0, 5496.0, 5370.0, 5399.0, 5578.0, 5636.0, 5551.0, 5542.0, 5616.0, 5683.0, 5479.0, 5433.0, 5634.0, 5355.0, 5367.0, 5673.0, 5517.0, 5665.0, 5586.0, 5536.0, 5533.0, 5687.0, 5654.0, 5252.0, 5462.0, 5609.0, 5490.0, 5392.0, 5716.0, 5267.0, 5708.0, 5365.0, 5702.0, 5442.0, 5467.0, 5363.0, 5525.0, 5450.0, 5261.0, 5368.0, 5310.0, 5383.0, 5275.0, 5660.0, 5630.0, 5693.0, 5425.0, 5358.0, 5695.0, 5356.0, 5287.0, 5599.0, 5723.0, 5625.0, 5379.0, 5422.0, 5500.0, 5520.0, 5705.0, 5332.0, 5338.0, 5601.0, 5253.0, 5254.0, 5652.0, 5617.0, 5710.0, 5397.0, 5486.0, 5461.0, 5600.0, 5676.0, 5333.0, 5380.0, 5277.0, 5587.0, 5639.0, 5438.0, 5364.0, 5306.0, 5557.0, 5401.0, 5387.0, 5506.0, 5485.0, 5415.0 (number of hits: 5)
3	5580	9	1	333	1	5324.0, 5436.0, 5393.0, 5476.0, 5595.0, 5504.0, 5345.0, 5409.0, 5401.0, 5608.0, 5299.0, 5713.0, 5632.0, 5400.0, 5656.0, 5545.0, 5555.0, 5364.0, 5714.0, 5535.0, 5597.0, 5317.0, 5673.0, 5379.0, 5503.0, 5539.0, 5280.0, 5306.0, 5287.0, 5574.0, 5566.0, 5464.0, 5416.0, 5347.0, 5702.0, 5496.0, 5350.0, 5488.0, 5426.0, 5414.0,

						5593.0, 5643.0, 5283.0, 5412.0, 5627.0, 5631.0, 5316.0, 5351.0, 5381.0, 5495.0, 5720.0, 5304.0, 5405.0, 5525.0, 5500.0, 5264.0, 5439.0, 5497.0, 5645.0, 5460.0, 5674.0, 5712.0, 5705.0, 5279.0, 5338.0, 5518.0, 5330.0, 5378.0, 5472.0, 5442.0, 5681.0, 5620.0, 5386.0, 5391.0, 5592.0, 5553.0, 5639.0, 5348.0, 5397.0, 5654.0, 5697.0, 5314.0, 5417.0, 5696.0, 5271.0, 5253.0, 5461.0, 5549.0, 5524.0, 5339.0, 5302.0, 5420.0, 5618.0, 5257.0, 5342.0, 5507.0, 5469.0, 5479.0, 5481.0, 5428.0 (number of hits: 6)
4	5580	9	1	333	1	5334.0, 5425.0, 5623.0, 5432.0, 5516.0, 5363.0, 5456.0, 5722.0, 5459.0, 5531.0, 5666.0, 5683.0, 5540.0, 5469.0, 5521.0, 5654.0, 5297.0, 5630.0, 5400.0, 5323.0, 5273.0, 5638.0, 5515.0, 5285.0, 5495.0, 5597.0, 5449.0, 5601.0, 5644.0, 5669.0, 5523.0, 5463.0, 5547.0, 5348.0, 5680.0, 5518.0, 5306.0, 5409.0, 5665.0, 5325.0, 5402.0, 5718.0, 5714.0, 5589.0, 5373.0, 5717.0, 5254.0, 5538.0, 5370.0, 5699.0, 5700.0, 5299.0, 5284.0, 5445.0, 5387.0, 5360.0, 5596.0, 5588.0, 5537.0, 5464.0, 5386.0, 5569.0, 5578.0, 5539.0, 5688.0, 5310.0, 5552.0, 5474.0, 5321.0, 5642.0, 5602.0, 5411.0, 5568.0, 5625.0, 5287.0, 5330.0, 5496.0, 5494.0, 5298.0, 5600.0, 5560.0, 5368.0, 5580.0, 5417.0, 5312.0, 5381.0, 5694.0, 5340.0, 5361.0, 5566.0, 5667.0, 5690.0, 5324.0, 5275.0, 5533.0, 5252.0, 5253.0, 5707.0, 5709.0, 5462.0 (number of hits: 8)
5	5580	9	1	333	1	5345.0, 5315.0, 5381.0, 5448.0, 5409.0, 5404.0, 5646.0, 5287.0, 5428.0, 5697.0, 5627.0, 5445.0, 5533.0, 5493.0, 5689.0, 5262.0, 5276.0, 5309.0, 5694.0, 5266.0, 5599.0, 5281.0, 5492.0, 5380.0, 5507.0, 5486.0, 5518.0, 5298.0, 5326.0, 5642.0, 5491.0, 5400.0, 5446.0, 5358.0, 5351.0, 5371.0, 5675.0, 5399.0, 5593.0, 5432.0, 5401.0, 5327.0, 5693.0, 5410.0, 5316.0, 5282.0, 5293.0, 5305.0, 5558.0, 5456.0, 5598.0, 5510.0, 5584.0, 5494.0, 5277.0, 5285.0, 5585.0, 5544.0, 5370.0, 5481.0, 5720.0, 5363.0, 5648.0, 5581.0, 5300.0, 5314.0, 5690.0, 5344.0, 5681.0, 5565.0, 5439.0, 5509.0, 5365.0, 5547.0, 5559.0, 5575.0, 5288.0, 5686.0, 5630.0, 5360.0, 5427.0, 5605.0, 5406.0, 5636.0, 5471.0, 5474.0, 5579.0, 5294.0, 5459.0, 5643.0, 5639.0, 5361.0, 5549.0, 5449.0, 5596.0, 5702.0, 5603.0, 5554.0, 5335.0, 5411.0 (number of hits: 10)
6	5580	9	1	333	1	5445.0, 5523.0, 5458.0, 5468.0, 5336.0,

						5382.0, 5410.0, 5251.0, 5338.0, 5684.0, 5422.0, 5634.0, 5507.0, 5559.0, 5606.0, 5472.0, 5383.0, 5275.0, 5437.0, 5669.0, 5697.0, 5319.0, 5722.0, 5681.0, 5707.0, 5597.0, 5663.0, 5519.0, 5355.0, 5280.0, 5602.0, 5292.0, 5390.0, 5595.0, 5556.0, 5333.0, 5311.0, 5290.0, 5568.0, 5705.0, 5387.0, 5473.0, 5332.0, 5303.0, 5589.0, 5540.0, 5430.0, 5337.0, 5553.0, 5525.0, 5565.0, 5361.0, 5256.0, 5293.0, 5298.0, 5601.0, 5386.0, 5267.0, 5479.0, 5563.0, 5533.0, 5646.0, 5642.0, 5656.0, 5616.0, 5530.0, 5259.0, 5420.0, 5325.0, 5675.0, 5633.0, 5612.0, 5498.0, 5593.0, 5408.0, 5647.0, 5710.0, 5664.0, 5679.0, 5542.0, 5286.0, 5544.0, 5651.0, 5424.0, 5309.0, 5402.0, 5674.0, 5526.0, 5666.0, 5521.0, 5496.0, 5396.0, 5477.0, 5629.0, 5550.0, 5661.0, 5560.0, 5640.0, 5545.0, 5599.0 (number of hits: 8)
7	5580	9	1	333	1	5265.0, 5569.0, 5613.0, 5352.0, 5464.0, 5723.0, 5347.0, 5376.0, 5451.0, 5491.0, 5722.0, 5622.0, 5398.0, 5602.0, 5481.0, 5368.0, 5386.0, 5668.0, 5502.0, 5407.0, 5497.0, 5581.0, 5576.0, 5524.0, 5373.0, 5441.0, 5660.0, 5648.0, 5506.0, 5713.0, 5575.0, 5297.0, 5339.0, 5547.0, 5329.0, 5383.0, 5294.0, 5585.0, 5498.0, 5577.0, 5549.0, 5337.0, 5720.0, 5371.0, 5275.0, 5250.0, 5420.0, 5490.0, 5435.0, 5689.0, 5408.0, 5693.0, 5630.0, 5458.0, 5673.0, 5457.0, 5357.0, 5654.0, 5510.0, 5298.0, 5456.0, 5688.0, 5554.0, 5643.0, 5600.0, 5391.0, 5662.0, 5657.0, 5521.0, 5415.0, 5616.0, 5362.0, 5341.0, 5369.0, 5518.0, 5494.0, 5519.0, 5370.0, 5571.0, 5423.0, 5395.0, 5573.0, 5300.0, 5419.0, 5505.0, 5586.0, 5694.0, 5296.0, 5380.0, 5305.0, 5311.0, 5680.0, 5264.0, 5346.0, 5635.0, 5384.0, 5652.0, 5606.0, 5426.0, 5692.0 (number of hits: 7)
8	5580	9	1	333	1	5603.0, 5559.0, 5626.0, 5363.0, 5498.0, 5705.0, 5274.0, 5384.0, 5537.0, 5512.0, 5381.0, 5459.0, 5284.0, 5597.0, 5361.0, 5332.0, 5650.0, 5457.0, 5590.0, 5461.0, 5486.0, 5308.0, 5311.0, 5675.0, 5716.0, 5372.0, 5431.0, 5321.0, 5433.0, 5622.0, 5552.0, 5273.0, 5625.0, 5688.0, 5605.0, 5483.0, 5692.0, 5252.0, 5557.0, 5722.0, 5285.0, 5549.0, 5723.0, 5670.0, 5350.0, 5415.0, 5536.0, 5634.0, 5651.0, 5584.0, 5693.0, 5681.0, 5443.0, 5647.0, 5564.0, 5340.0, 5621.0, 5661.0, 5488.0, 5355.0, 5434.0, 5312.0, 5426.0, 5473.0, 5507.0, 5294.0, 5609.0, 5671.0, 5280.0, 5577.0, 5719.0, 5679.0, 5720.0, 5447.0, 5295.0,

						5439.0, 5595.0, 5328.0, 5424.0, 5694.0, 5482.0, 5306.0, 5599.0, 5686.0, 5515.0, 5435.0, 5327.0, 5469.0, 5538.0, 5322.0, 5601.0, 5267.0, 5272.0, 5492.0, 5339.0, 5517.0, 5452.0, 5258.0, 5484.0, 5432.0 (number of hits: 7)
9	5580	9	1	333	1	5611.0, 5458.0, 5320.0, 5647.0, 5536.0, 5599.0, 5392.0, 5627.0, 5254.0, 5503.0, 5349.0, 5644.0, 5372.0, 5657.0, 5588.0, 5517.0, 5674.0, 5429.0, 5605.0, 5509.0, 5399.0, 5660.0, 5353.0, 5553.0, 5618.0, 5526.0, 5683.0, 5505.0, 5695.0, 5364.0, 5334.0, 5690.0, 5477.0, 5270.0, 5401.0, 5641.0, 5261.0, 5630.0, 5559.0, 5439.0, 5666.0, 5455.0, 5640.0, 5286.0, 5670.0, 5541.0, 5715.0, 5434.0, 5437.0, 5339.0, 5283.0, 5491.0, 5610.0, 5288.0, 5545.0, 5718.0, 5514.0, 5623.0, 5522.0, 5496.0, 5332.0, 5564.0, 5278.0, 5518.0, 5426.0, 5289.0, 5416.0, 5314.0, 5275.0, 5688.0, 5330.0, 5560.0, 5344.0, 5390.0, 5676.0, 5565.0, 5422.0, 5634.0, 5562.0, 5572.0, 5600.0, 5673.0, 5540.0, 5586.0, 5282.0, 5393.0, 5432.0, 5563.0, 5284.0, 5359.0, 5497.0, 5620.0, 5350.0, 5476.0, 5327.0, 5402.0, 5414.0, 5568.0, 5708.0, 5597.0 (number of hits: 4)
10	5580	9	1	333	1	5504.0, 5496.0, 5399.0, 5362.0, 5570.0, 5469.0, 5589.0, 5702.0, 5616.0, 5452.0, 5495.0, 5663.0, 5624.0, 5641.0, 5459.0, 5405.0, 5511.0, 5465.0, 5450.0, 5664.0, 5657.0, 5409.0, 5591.0, 5520.0, 5410.0, 5614.0, 5723.0, 5524.0, 5361.0, 5682.0, 5305.0, 5510.0, 5563.0, 5421.0, 5695.0, 5528.0, 5344.0, 5669.0, 5582.0, 5296.0, 5677.0, 5554.0, 5436.0, 5484.0, 5526.0, 5590.0, 5560.0, 5640.0, 5307.0, 5464.0, 5545.0, 5346.0, 5548.0, 5605.0, 5483.0, 5514.0, 5696.0, 5297.0, 5332.0, 5319.0, 5460.0, 5652.0, 5489.0, 5481.0, 5650.0, 5389.0, 5250.0, 5701.0, 5291.0, 5327.0, 5618.0, 5343.0, 5559.0, 5692.0, 5302.0, 5487.0, 5712.0, 5622.0, 5294.0, 5345.0, 5310.0, 5633.0, 5568.0, 5368.0, 5594.0, 5418.0, 5261.0, 5322.0, 5333.0, 5485.0, 5456.0, 5303.0, 5595.0, 5551.0, 5689.0, 5331.0, 5363.0, 5278.0, 5647.0, 5330.0 (number of hits: 9)
11	5580	9	1	333	1	5558.0, 5719.0, 5396.0, 5528.0, 5710.0, 5405.0, 5711.0, 5424.0, 5541.0, 5450.0, 5602.0, 5646.0, 5388.0, 5506.0, 5721.0, 5645.0, 5265.0, 5569.0, 5696.0, 5346.0, 5330.0, 5593.0, 5401.0, 5694.0, 5315.0, 5674.0, 5441.0, 5616.0, 5400.0, 5366.0, 5385.0, 5535.0, 5647.0, 5272.0, 5615.0, 5380.0, 5316.0, 5555.0, 5660.0, 5530.0,

						5284.0, 5310.0, 5672.0, 5720.0, 5328.0, 5302.0, 5338.0, 5363.0, 5317.0, 5547.0, 5531.0, 5433.0, 5639.0, 5266.0, 5612.0, 5628.0, 5352.0, 5681.0, 5347.0, 5713.0, 5298.0, 5505.0, 5374.0, 5453.0, 5387.0, 5279.0, 5561.0, 5591.0, 5368.0, 5718.0, 5375.0, 5349.0, 5283.0, 5440.0, 5654.0, 5362.0, 5709.0, 5416.0, 5497.0, 5451.0, 5439.0, 5446.0, 5398.0, 5649.0, 5658.0, 5429.0, 5603.0, 5448.0, 5268.0, 5680.0, 5515.0, 5364.0, 5562.0, 5417.0, 5501.0, 5276.0, 5606.0, 5570.0, 5263.0, 5509.0 (number of hits: 3)
12	5580	9	1	333	1	5415.0, 5548.0, 5322.0, 5503.0, 5378.0, 5713.0, 5326.0, 5368.0, 5442.0, 5365.0, 5705.0, 5538.0, 5411.0, 5324.0, 5544.0, 5311.0, 5509.0, 5724.0, 5719.0, 5712.0, 5628.0, 5695.0, 5261.0, 5488.0, 5264.0, 5265.0, 5336.0, 5561.0, 5384.0, 5596.0, 5263.0, 5655.0, 5533.0, 5711.0, 5393.0, 5328.0, 5409.0, 5490.0, 5689.0, 5464.0, 5517.0, 5477.0, 5291.0, 5583.0, 5319.0, 5407.0, 5282.0, 5441.0, 5352.0, 5685.0, 5666.0, 5367.0, 5360.0, 5330.0, 5332.0, 5524.0, 5584.0, 5437.0, 5276.0, 5623.0, 5508.0, 5293.0, 5684.0, 5277.0, 5497.0, 5314.0, 5463.0, 5593.0, 5343.0, 5549.0, 5710.0, 5661.0, 5675.0, 5644.0, 5532.0, 5501.0, 5641.0, 5613.0, 5714.0, 5309.0, 5590.0, 5285.0, 5471.0, 5615.0, 5610.0, 5552.0, 5390.0, 5694.0, 5718.0, 5433.0, 5585.0, 5556.0, 5391.0, 5417.0, 5616.0, 5653.0, 5299.0, 5428.0, 5474.0, 5331.0 (number of hits: 7)
13	5580	9	1	333	1	5431.0, 5541.0, 5436.0, 5645.0, 5360.0, 5337.0, 5489.0, 5479.0, 5457.0, 5703.0, 5329.0, 5421.0, 5383.0, 5587.0, 5540.0, 5396.0, 5384.0, 5683.0, 5382.0, 5718.0, 5666.0, 5501.0, 5685.0, 5306.0, 5656.0, 5257.0, 5576.0, 5678.0, 5562.0, 5585.0, 5437.0, 5480.0, 5255.0, 5459.0, 5624.0, 5505.0, 5628.0, 5573.0, 5278.0, 5487.0, 5469.0, 5639.0, 5390.0, 5594.0, 5297.0, 5476.0, 5269.0, 5288.0, 5262.0, 5586.0, 5556.0, 5295.0, 5497.0, 5432.0, 5546.0, 5455.0, 5425.0, 5707.0, 5408.0, 5629.0, 5372.0, 5610.0, 5636.0, 5644.0, 5503.0, 5413.0, 5689.0, 5293.0, 5462.0, 5392.0, 5509.0, 5394.0, 5485.0, 5352.0, 5720.0, 5417.0, 5386.0, 5519.0, 5677.0, 5284.0, 5564.0, 5663.0, 5650.0, 5283.0, 5333.0, 5450.0, 5634.0, 5470.0, 5466.0, 5481.0, 5632.0, 5515.0, 5630.0, 5334.0, 5467.0, 5609.0, 5400.0, 5595.0, 5494.0, 5296.0 (number of hits: 6)
14	5580	9	1	333	1	5371.0, 5571.0, 5363.0, 5661.0, 5427.0,

						5714.0, 5690.0, 5692.0, 5255.0, 5294.0, 5568.0, 5463.0, 5334.0, 5525.0, 5656.0, 5409.0, 5356.0, 5317.0, 5487.0, 5494.0, 5385.0, 5327.0, 5489.0, 5507.0, 5706.0, 5322.0, 5396.0, 5505.0, 5296.0, 5616.0, 5637.0, 5448.0, 5265.0, 5550.0, 5495.0, 5609.0, 5292.0, 5270.0, 5544.0, 5280.0, 5397.0, 5704.0, 5496.0, 5470.0, 5667.0, 5434.0, 5618.0, 5481.0, 5696.0, 5594.0, 5497.0, 5394.0, 5646.0, 5364.0, 5612.0, 5472.0, 5684.0, 5533.0, 5289.0, 5659.0, 5511.0, 5491.0, 5502.0, 5349.0, 5536.0, 5259.0, 5440.0, 5415.0, 5307.0, 5402.0, 5668.0, 5282.0, 5504.0, 5445.0, 5520.0, 5557.0, 5708.0, 5340.0, 5632.0, 5703.0, 5530.0, 5466.0, 5293.0, 5300.0, 5263.0, 5676.0, 5527.0, 5488.0, 5516.0, 5524.0, 5250.0, 5681.0, 5386.0, 5477.0, 5429.0, 5485.0, 5398.0, 5542.0, 5650.0, 5325.0 (number of hits: 7)
15	5580	9	1	333	1	5470.0, 5507.0, 5503.0, 5354.0, 5680.0, 5513.0, 5702.0, 5658.0, 5686.0, 5567.0, 5361.0, 5701.0, 5367.0, 5584.0, 5377.0, 5539.0, 5545.0, 5589.0, 5408.0, 5489.0, 5260.0, 5333.0, 5687.0, 5668.0, 5412.0, 5370.0, 5394.0, 5600.0, 5307.0, 5318.0, 5426.0, 5512.0, 5681.0, 5544.0, 5564.0, 5560.0, 5277.0, 5297.0, 5387.0, 5650.0, 5678.0, 5682.0, 5324.0, 5332.0, 5428.0, 5465.0, 5709.0, 5514.0, 5693.0, 5711.0, 5632.0, 5434.0, 5698.0, 5705.0, 5595.0, 5349.0, 5654.0, 5684.0, 5400.0, 5582.0, 5265.0, 5553.0, 5615.0, 5427.0, 5604.0, 5518.0, 5555.0, 5577.0, 5300.0, 5417.0, 5493.0, 5365.0, 5282.0, 5287.0, 5330.0, 5655.0, 5496.0, 5304.0, 5487.0, 5295.0, 5643.0, 5424.0, 5319.0, 5607.0, 5406.0, 5363.0, 5524.0, 5673.0, 5413.0, 5409.0, 5674.0, 5482.0, 5350.0, 5571.0, 5346.0, 5305.0, 5359.0, 5617.0, 5542.0, 5358.0 (number of hits: 7)
16	5580	9	1	333	1	5600.0, 5313.0, 5538.0, 5278.0, 5357.0, 5550.0, 5392.0, 5284.0, 5349.0, 5557.0, 5286.0, 5677.0, 5601.0, 5548.0, 5403.0, 5586.0, 5310.0, 5338.0, 5460.0, 5713.0, 5375.0, 5474.0, 5458.0, 5700.0, 5271.0, 5393.0, 5712.0, 5624.0, 5348.0, 5305.0, 5691.0, 5486.0, 5605.0, 5681.0, 5521.0, 5365.0, 5625.0, 5650.0, 5323.0, 5553.0, 5302.0, 5299.0, 5390.0, 5618.0, 5295.0, 5592.0, 5263.0, 5683.0, 5652.0, 5366.0, 5469.0, 5480.0, 5719.0, 5251.0, 5372.0, 5367.0, 5679.0, 5259.0, 5532.0, 5432.0, 5512.0, 5673.0, 5503.0, 5453.0, 5267.0, 5640.0, 5417.0, 5447.0, 5638.0, 5610.0, 5441.0, 5669.0, 5482.0, 5506.0, 5342.0,

						5602.0, 5654.0, 5518.0, 5505.0, 5525.0, 5381.0, 5293.0, 5420.0, 5264.0, 5666.0, 5452.0, 5555.0, 5336.0, 5653.0, 5529.0, 5376.0, 5643.0, 5549.0, 5253.0, 5571.0, 5575.0, 5430.0, 5383.0, 5594.0, 5664.0 (number of hits: 8)
17	5580	9	1	333	1	5281.0, 5499.0, 5511.0, 5341.0, 5451.0, 5253.0, 5358.0, 5719.0, 5283.0, 5657.0, 5547.0, 5323.0, 5541.0, 5289.0, 5546.0, 5278.0, 5254.0, 5280.0, 5721.0, 5635.0, 5722.0, 5580.0, 5609.0, 5600.0, 5260.0, 5585.0, 5393.0, 5383.0, 5699.0, 5603.0, 5398.0, 5636.0, 5618.0, 5717.0, 5473.0, 5381.0, 5417.0, 5423.0, 5420.0, 5273.0, 5672.0, 5583.0, 5716.0, 5407.0, 5591.0, 5673.0, 5629.0, 5333.0, 5489.0, 5565.0, 5711.0, 5670.0, 5724.0, 5445.0, 5390.0, 5295.0, 5720.0, 5400.0, 5524.0, 5342.0, 5285.0, 5655.0, 5623.0, 5485.0, 5480.0, 5602.0, 5311.0, 5258.0, 5348.0, 5513.0, 5553.0, 5484.0, 5327.0, 5532.0, 5368.0, 5431.0, 5299.0, 5334.0, 5587.0, 5350.0, 5595.0, 5322.0, 5408.0, 5517.0, 5308.0, 5363.0, 5501.0, 5440.0, 5357.0, 5406.0, 5605.0, 5622.0, 5422.0, 5346.0, 5671.0, 5339.0, 5703.0, 5709.0, 5307.0, 5571.0 (number of hits: 7)
18	5580	9	1	333	1	5705.0, 5496.0, 5366.0, 5578.0, 5551.0, 5348.0, 5470.0, 5334.0, 5299.0, 5303.0, 5259.0, 5717.0, 5339.0, 5561.0, 5264.0, 5712.0, 5368.0, 5586.0, 5661.0, 5593.0, 5512.0, 5415.0, 5560.0, 5396.0, 5540.0, 5456.0, 5327.0, 5351.0, 5437.0, 5677.0, 5647.0, 5603.0, 5422.0, 5566.0, 5499.0, 5516.0, 5722.0, 5696.0, 5495.0, 5674.0, 5417.0, 5649.0, 5462.0, 5373.0, 5580.0, 5473.0, 5320.0, 5280.0, 5565.0, 5617.0, 5510.0, 5640.0, 5284.0, 5643.0, 5379.0, 5651.0, 5439.0, 5304.0, 5406.0, 5363.0, 5460.0, 5376.0, 5435.0, 5362.0, 5359.0, 5662.0, 5457.0, 5697.0, 5325.0, 5509.0, 5631.0, 5449.0, 5286.0, 5388.0, 5503.0, 5450.0, 5337.0, 5459.0, 5463.0, 5491.0, 5423.0, 5424.0, 5573.0, 5440.0, 5394.0, 5620.0, 5262.0, 5694.0, 5645.0, 5577.0, 5517.0, 5369.0, 5360.0, 5710.0, 5660.0, 5629.0, 5554.0, 5622.0, 5267.0, 5355.0 (number of hits: 4)
19	5580	9	1	333	1	5449.0, 5354.0, 5316.0, 5459.0, 5669.0, 5651.0, 5527.0, 5348.0, 5342.0, 5719.0, 5314.0, 5532.0, 5471.0, 5265.0, 5468.0, 5288.0, 5660.0, 5580.0, 5318.0, 5506.0, 5410.0, 5489.0, 5579.0, 5483.0, 5645.0, 5514.0, 5681.0, 5425.0, 5511.0, 5536.0, 5384.0, 5258.0, 5517.0, 5640.0, 5448.0, 5557.0, 5716.0, 5327.0, 5501.0, 5264.0,

						5569.0, 5366.0, 5452.0, 5686.0, 5406.0, 5491.0, 5361.0, 5404.0, 5493.0, 5495.0, 5374.0, 5339.0, 5453.0, 5545.0, 5462.0, 5270.0, 5572.0, 5251.0, 5544.0, 5547.0, 5541.0, 5315.0, 5470.0, 5423.0, 5559.0, 5512.0, 5562.0, 5306.0, 5372.0, 5693.0, 5344.0, 5655.0, 5524.0, 5362.0, 5482.0, 5561.0, 5534.0, 5525.0, 5320.0, 5582.0, 5429.0, 5277.0, 5325.0, 5666.0, 5485.0, 5303.0, 5715.0, 5706.0, 5570.0, 5271.0, 5721.0, 5500.0, 5497.0, 5402.0, 5294.0, 5484.0, 5656.0, 5623.0, 5335.0, 5509.0 (number of hits: 5)
20	5580	9	1	333	1	5581.0, 5575.0, 5685.0, 5664.0, 5578.0, 5655.0, 5690.0, 5593.0, 5613.0, 5477.0, 5532.0, 5449.0, 5284.0, 5363.0, 5716.0, 5410.0, 5484.0, 5466.0, 5306.0, 5553.0, 5371.0, 5492.0, 5495.0, 5600.0, 5462.0, 5364.0, 5385.0, 5439.0, 5275.0, 5295.0, 5464.0, 5415.0, 5458.0, 5527.0, 5592.0, 5519.0, 5673.0, 5471.0, 5525.0, 5650.0, 5645.0, 5287.0, 5255.0, 5326.0, 5370.0, 5681.0, 5355.0, 5361.0, 5318.0, 5530.0, 5626.0, 5465.0, 5444.0, 5642.0, 5562.0, 5617.0, 5476.0, 5656.0, 5490.0, 5651.0, 5537.0, 5521.0, 5486.0, 5540.0, 5350.0, 5565.0, 5423.0, 5342.0, 5398.0, 5267.0, 5644.0, 5668.0, 5408.0, 5288.0, 5328.0, 5413.0, 5445.0, 5544.0, 5421.0, 5518.0, 5658.0, 5684.0, 5526.0, 5473.0, 5635.0, 5602.0, 5285.0, 5573.0, 5580.0, 5351.0, 5542.0, 5488.0, 5266.0, 5348.0, 5624.0, 5297.0, 5296.0, 5598.0, 5555.0, 5411.0 (number of hits: 7)
21	5580	9	1	333	1	5527.0, 5364.0, 5684.0, 5337.0, 5471.0, 5392.0, 5410.0, 5596.0, 5599.0, 5710.0, 5511.0, 5590.0, 5323.0, 5401.0, 5568.0, 5437.0, 5298.0, 5390.0, 5325.0, 5558.0, 5255.0, 5467.0, 5406.0, 5310.0, 5502.0, 5722.0, 5420.0, 5441.0, 5322.0, 5273.0, 5369.0, 5274.0, 5403.0, 5353.0, 5416.0, 5601.0, 5687.0, 5675.0, 5714.0, 5445.0, 5655.0, 5332.0, 5668.0, 5695.0, 5626.0, 5404.0, 5486.0, 5473.0, 5709.0, 5603.0, 5313.0, 5538.0, 5342.0, 5300.0, 5480.0, 5516.0, 5637.0, 5495.0, 5598.0, 5533.0, 5396.0, 5280.0, 5507.0, 5666.0, 5328.0, 5450.0, 5698.0, 5373.0, 5431.0, 5264.0, 5351.0, 5560.0, 5658.0, 5308.0, 5455.0, 5586.0, 5556.0, 5631.0, 5457.0, 5426.0, 5578.0, 5566.0, 5316.0, 5449.0, 5513.0, 5256.0, 5344.0, 5607.0, 5593.0, 5497.0, 5388.0, 5470.0, 5585.0, 5682.0, 5489.0, 5343.0, 5468.0, 5653.0, 5564.0, 5433.0 (number of hits: 5)
22	5580	9	1	333	1	5272.0, 5252.0, 5455.0, 5607.0, 5606.0,

						5359.0, 5452.0, 5409.0, 5511.0, 5512.0, 5656.0, 5555.0, 5724.0, 5468.0, 5720.0, 5605.0, 5361.0, 5261.0, 5395.0, 5533.0, 5650.0, 5414.0, 5440.0, 5576.0, 5710.0, 5723.0, 5626.0, 5536.0, 5548.0, 5294.0, 5543.0, 5350.0, 5549.0, 5401.0, 5330.0, 5719.0, 5338.0, 5380.0, 5689.0, 5375.0, 5332.0, 5343.0, 5505.0, 5447.0, 5301.0, 5664.0, 5320.0, 5661.0, 5680.0, 5643.0, 5351.0, 5658.0, 5711.0, 5622.0, 5662.0, 5486.0, 5382.0, 5322.0, 5303.0, 5694.0, 5299.0, 5461.0, 5634.0, 5620.0, 5388.0, 5317.0, 5335.0, 5568.0, 5412.0, 5271.0, 5430.0, 5374.0, 5458.0, 5306.0, 5633.0, 5431.0, 5466.0, 5675.0, 5659.0, 5561.0, 5289.0, 5609.0, 5488.0, 5472.0, 5354.0, 5304.0, 5398.0, 5542.0, 5474.0, 5346.0, 5638.0, 5572.0, 5389.0, 5345.0, 5713.0, 5562.0, 5583.0, 5284.0, 5597.0, 5254.0 (number of hits: 7)
23	5580	9	1	333	1	5698.0, 5408.0, 5694.0, 5678.0, 5347.0, 5526.0, 5358.0, 5676.0, 5580.0, 5666.0, 5315.0, 5447.0, 5681.0, 5532.0, 5261.0, 5274.0, 5479.0, 5356.0, 5448.0, 5310.0, 5542.0, 5654.0, 5272.0, 5458.0, 5533.0, 5294.0, 5717.0, 5541.0, 5420.0, 5489.0, 5462.0, 5312.0, 5621.0, 5512.0, 5262.0, 5663.0, 5282.0, 5334.0, 5501.0, 5293.0, 5428.0, 5307.0, 5467.0, 5399.0, 5559.0, 5351.0, 5395.0, 5519.0, 5477.0, 5530.0, 5510.0, 5327.0, 5302.0, 5391.0, 5579.0, 5711.0, 5527.0, 5496.0, 5289.0, 5465.0, 5558.0, 5581.0, 5342.0, 5612.0, 5574.0, 5405.0, 5322.0, 5577.0, 5673.0, 5339.0, 5641.0, 5329.0, 5410.0, 5335.0, 5300.0, 5401.0, 5324.0, 5587.0, 5418.0, 5383.0, 5303.0, 5400.0, 5343.0, 5544.0, 5487.0, 5513.0, 5639.0, 5520.0, 5642.0, 5433.0, 5491.0, 5503.0, 5481.0, 5708.0, 5264.0, 5584.0, 5256.0, 5500.0, 5601.0, 5354.0 (number of hits: 9)
24	5580	9	1	333	1	5332.0, 5300.0, 5397.0, 5395.0, 5631.0, 5662.0, 5287.0, 5593.0, 5688.0, 5280.0, 5338.0, 5417.0, 5449.0, 5482.0, 5422.0, 5315.0, 5310.0, 5346.0, 5381.0, 5345.0, 5573.0, 5545.0, 5458.0, 5525.0, 5386.0, 5664.0, 5299.0, 5401.0, 5425.0, 5412.0, 5686.0, 5439.0, 5691.0, 5554.0, 5305.0, 5306.0, 5329.0, 5448.0, 5526.0, 5388.0, 5701.0, 5613.0, 5678.0, 5683.0, 5652.0, 5337.0, 5418.0, 5508.0, 5542.0, 5712.0, 5347.0, 5600.0, 5471.0, 5314.0, 5575.0, 5382.0, 5277.0, 5344.0, 5409.0, 5499.0, 5522.0, 5700.0, 5605.0, 5400.0, 5459.0, 5367.0, 5447.0, 5560.0, 5462.0, 5556.0, 5612.0, 5622.0, 5673.0, 5485.0, 5389.0,

						5427.0, 5574.0, 5650.0, 5559.0, 5399.0, 5460.0, 5514.0, 5551.0, 5415.0, 5595.0, 5720.0, 5640.0, 5601.0, 5336.0, 5354.0, 5539.0, 5491.0, 5292.0, 5628.0, 5641.0, 5580.0, 5589.0, 5319.0, 5383.0, 5531.0 (number of hits: 8)
25	5580	9	1	333	1	5413.0, 5459.0, 5312.0, 5293.0, 5434.0, 5349.0, 5660.0, 5360.0, 5319.0, 5535.0, 5380.0, 5452.0, 5613.0, 5260.0, 5642.0, 5403.0, 5638.0, 5651.0, 5394.0, 5419.0, 5700.0, 5492.0, 5462.0, 5646.0, 5497.0, 5354.0, 5663.0, 5703.0, 5398.0, 5543.0, 5449.0, 5429.0, 5654.0, 5640.0, 5327.0, 5334.0, 5691.0, 5458.0, 5306.0, 5540.0, 5562.0, 5599.0, 5709.0, 5532.0, 5705.0, 5286.0, 5442.0, 5584.0, 5569.0, 5576.0, 5352.0, 5606.0, 5375.0, 5494.0, 5592.0, 5605.0, 5566.0, 5288.0, 5626.0, 5472.0, 5387.0, 5575.0, 5525.0, 5493.0, 5291.0, 5487.0, 5368.0, 5283.0, 5416.0, 5483.0, 5674.0, 5629.0, 5457.0, 5600.0, 5328.0, 5282.0, 5379.0, 5601.0, 5280.0, 5489.0, 5573.0, 5589.0, 5571.0, 5552.0, 5350.0, 5498.0, 5662.0, 5634.0, 5585.0, 5526.0, 5518.0, 5424.0, 5652.0, 5568.0, 5384.0, 5285.0, 5466.0, 5721.0, 5333.0, 5578.0 (number of hits: 7)
26	5580	9	1	333	1	5256.0, 5281.0, 5647.0, 5653.0, 5321.0, 5613.0, 5662.0, 5425.0, 5283.0, 5718.0, 5370.0, 5352.0, 5301.0, 5479.0, 5258.0, 5584.0, 5317.0, 5675.0, 5694.0, 5276.0, 5354.0, 5514.0, 5474.0, 5492.0, 5493.0, 5489.0, 5545.0, 5537.0, 5686.0, 5357.0, 5495.0, 5434.0, 5599.0, 5685.0, 5642.0, 5704.0, 5316.0, 5722.0, 5382.0, 5269.0, 5689.0, 5451.0, 5544.0, 5420.0, 5322.0, 5591.0, 5274.0, 5465.0, 5659.0, 5395.0, 5454.0, 5416.0, 5639.0, 5490.0, 5643.0, 5280.0, 5597.0, 5350.0, 5261.0, 5339.0, 5509.0, 5418.0, 5542.0, 5324.0, 5361.0, 5516.0, 5712.0, 5419.0, 5351.0, 5562.0, 5286.0, 5410.0, 5563.0, 5629.0, 5391.0, 5348.0, 5693.0, 5429.0, 5572.0, 5628.0, 5538.0, 5667.0, 5441.0, 5670.0, 5671.0, 5445.0, 5506.0, 5367.0, 5345.0, 5406.0, 5433.0, 5692.0, 5443.0, 5646.0, 5390.0, 5655.0, 5427.0, 5253.0, 5651.0, 5529.0 (number of hits: 2)
27	5580	9	1	333	1	5565.0, 5473.0, 5338.0, 5387.0, 5617.0, 5684.0, 5595.0, 5507.0, 5540.0, 5545.0, 5476.0, 5314.0, 5603.0, 5464.0, 5682.0, 5278.0, 5551.0, 5282.0, 5470.0, 5334.0, 5696.0, 5281.0, 5296.0, 5393.0, 5629.0, 5404.0, 5650.0, 5287.0, 5573.0, 5327.0, 5289.0, 5645.0, 5384.0, 5415.0, 5272.0, 5562.0, 5527.0, 5569.0, 5521.0, 5383.0,

						5578.0, 5293.0, 5333.0, 5640.0, 5592.0, 5685.0, 5708.0, 5614.0, 5425.0, 5303.0, 5363.0, 5635.0, 5516.0, 5457.0, 5324.0, 5413.0, 5544.0, 5555.0, 5337.0, 5268.0, 5654.0, 5567.0, 5623.0, 5671.0, 5648.0, 5561.0, 5452.0, 5336.0, 5481.0, 5575.0, 5355.0, 5503.0, 5310.0, 5674.0, 5606.0, 5442.0, 5380.0, 5599.0, 5256.0, 5329.0, 5669.0, 5347.0, 5342.0, 5519.0, 5410.0, 5722.0, 5360.0, 5624.0, 5553.0, 5397.0, 5351.0, 5655.0, 5675.0, 5666.0, 5697.0, 5668.0, 5460.0, 5598.0, 5462.0, 5406.0 (number of hits: 7)
28	5580	9	1	333	1	5481.0, 5614.0, 5664.0, 5503.0, 5586.0, 5576.0, 5389.0, 5264.0, 5459.0, 5314.0, 5497.0, 5307.0, 5435.0, 5477.0, 5354.0, 5337.0, 5406.0, 5492.0, 5284.0, 5491.0, 5502.0, 5707.0, 5290.0, 5291.0, 5657.0, 5254.0, 5444.0, 5674.0, 5635.0, 5395.0, 5713.0, 5470.0, 5529.0, 5645.0, 5672.0, 5433.0, 5662.0, 5480.0, 5566.0, 5416.0, 5690.0, 5391.0, 5724.0, 5378.0, 5488.0, 5621.0, 5409.0, 5438.0, 5498.0, 5377.0, 5474.0, 5403.0, 5691.0, 5410.0, 5312.0, 5692.0, 5661.0, 5676.0, 5632.0, 5341.0, 5351.0, 5277.0, 5533.0, 5612.0, 5494.0, 5592.0, 5486.0, 5585.0, 5499.0, 5457.0, 5311.0, 5373.0, 5584.0, 5300.0, 5568.0, 5268.0, 5649.0, 5703.0, 5496.0, 5288.0, 5594.0, 5656.0, 5422.0, 5355.0, 5701.0, 5396.0, 5493.0, 5716.0, 5460.0, 5423.0, 5332.0, 5456.0, 5439.0, 5321.0, 5561.0, 5484.0, 5260.0, 5534.0, 5524.0, 5596.0 (number of hits: 8)
29	5580	9	1	333	1	5569.0, 5322.0, 5373.0, 5637.0, 5488.0, 5464.0, 5432.0, 5579.0, 5680.0, 5463.0, 5528.0, 5254.0, 5496.0, 5608.0, 5547.0, 5394.0, 5564.0, 5515.0, 5614.0, 5561.0, 5650.0, 5291.0, 5552.0, 5493.0, 5512.0, 5677.0, 5571.0, 5572.0, 5409.0, 5709.0, 5539.0, 5716.0, 5312.0, 5275.0, 5313.0, 5690.0, 5251.0, 5335.0, 5719.0, 5723.0, 5429.0, 5350.0, 5597.0, 5449.0, 5369.0, 5721.0, 5473.0, 5352.0, 5401.0, 5508.0, 5584.0, 5252.0, 5359.0, 5452.0, 5617.0, 5626.0, 5292.0, 5699.0, 5310.0, 5421.0, 5398.0, 5319.0, 5660.0, 5451.0, 5360.0, 5705.0, 5629.0, 5425.0, 5549.0, 5395.0, 5305.0, 5545.0, 5370.0, 5330.0, 5391.0, 5507.0, 5458.0, 5324.0, 5304.0, 5682.0, 5612.0, 5570.0, 5407.0, 5516.0, 5276.0, 5302.0, 5263.0, 5469.0, 5502.0, 5287.0, 5644.0, 5573.0, 5686.0, 5498.0, 5332.0, 5670.0, 5689.0, 5600.0, 5575.0, 5506.0 (number of hits: 9)
30	5580	9	1	333	1	5632.0, 5303.0, 5570.0, 5658.0, 5714.0,

						5319.0, 5352.0, 5373.0, 5590.0, 5597.0, 5287.0, 5280.0, 5270.0, 5567.0, 5562.0, 5581.0, 5611.0, 5659.0, 5625.0, 5389.0, 5512.0, 5263.0, 5642.0, 5323.0, 5306.0, 5676.0, 5281.0, 5486.0, 5475.0, 5702.0, 5478.0, 5264.0, 5537.0, 5647.0, 5371.0, 5610.0, 5431.0, 5694.0, 5327.0, 5360.0, 5372.0, 5576.0, 5672.0, 5548.0, 5628.0, 5376.0, 5301.0, 5522.0, 5450.0, 5721.0, 5329.0, 5553.0, 5558.0, 5616.0, 5387.0, 5664.0, 5631.0, 5592.0, 5701.0, 5462.0, 5438.0, 5546.0, 5385.0, 5536.0, 5256.0, 5555.0, 5395.0, 5388.0, 5356.0, 5410.0, 5491.0, 5332.0, 5308.0, 5326.0, 5679.0, 5523.0, 5399.0, 5390.0, 5564.0, 5472.0, 5316.0, 5550.0, 5317.0, 5549.0, 5509.0, 5651.0, 5560.0, 5671.0, 5591.0, 5418.0, 5253.0, 5587.0, 5563.0, 5391.0, 5313.0, 5252.0, 5392.0, 5700.0, 5267.0, 5447.0 (number of hits: 6)

5270 MHz, 40 MHz Bandwidth:

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1	30	100 %	60%	Pass
Type 2	30	96.7 %	60%	Pass
Type 3	30	96.7 %	60%	Pass
Type 4	30	100 %	60%	Pass
Aggregate (Type1 to 4)	120	98.35 %	80%	Pass
Type 5	30	100 %	80%	Pass
Type 6	30	100 %	70%	Pass

Please refer to the following statistical tables:

5270 MHz

Table-1 Radar Type 1 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5270	5270	18	1	1428
2	5270	5270	18	1	1428
3	5270	5270	18	1	1428
4	5270	5270	18	1	1428
5	5270	5270	18	1	1428
6	5270	5270	18	1	1428
7	5270	5270	18	1	1428
8	5270	5270	18	1	1428
9	5270	5270	18	1	1428
10	5270	5270	18	1	1428
11	5270	5270	18	1	1428
12	5270	5270	18	1	1428
13	5270	5270	18	1	1428
14	5270	5270	18	1	1428
15	5270	5270	18	1	1428
16	5270	5270	18	1	1428
17	5270	5270	18	1	1428
18	5270	5270	18	1	1428
19	5270	5270	18	1	1428
20	5270	5270	18	1	1428
21	5270	5270	18	1	1428
22	5270	5270	18	1	1428
23	5270	5270	18	1	1428
24	5270	5270	18	1	1428
25	5270	5270	18	1	1428
26	5270	5270	18	1	1428
27	5270	5270	18	1	1428
28	5270	5270	18	1	1428
29	5270	5270	18	1	1428
30	5270	5270	18	1	1428
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	5270	29	4	223	1
2	5270	25	2.5	153	1
3	5270	27	4.7	221	1
4	5270	27	3	170	1
5	5270	23	2.2	163	1
6	5270	26	3.6	192	1
7	5270	29	1.6	179	1
8	5270	29	1.1	169	1
9	5270	25	3.4	172	1
10	5270	26	3.7	152	1
11	5270	29	3.8	227	1
12	5270	23	4.3	184	1
13	5270	26	3.8	177	1
14	5270	28	4.7	227	1
15	5270	27	1.1	188	1
16	5270	25	3.6	214	1
17	5270	25	2	226	1
18	5270	24	1.5	220	1
19	5270	23	4	164	1
20	5270	26	1	156	1
21	5270	29	1	212	1
22	5270	24	3.5	213	1
23	5270	25	3.6	200	1
24	5270	24	3.3	176	1
25	5270	26	1.3	200	0
26	5270	28	2.5	196	1
27	5270	23	3	151	1
28	5270	25	1.8	211	1
29	5270	27	2.6	212	1
30	5270	23	1.8	218	1
Detection Percentage: 96.7 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5270	17	7.6	236	1
2	5270	18	6.9	457	1
3	5270	16	9	482	1
4	5270	16	7.6	299	1
5	5270	18	7.6	494	1
6	5270	17	7.1	500	1
7	5270	17	6.5	267	1
8	5270	17	9.2	210	1
9	5270	17	6.5	254	1
10	5270	18	7.2	463	1
11	5270	18	8.2	496	1
12	5270	16	6.1	268	1
13	5270	18	9.2	336	1
14	5270	16	7.1	414	1
15	5270	17	7	429	1
16	5270	16	8.5	348	0
17	5270	17	7.9	232	1
18	5270	17	8	299	1
19	5270	17	7.2	277	1
20	5270	18	8.6	262	1
21	5270	17	7	363	1
22	5270	18	9.8	499	1
23	5270	16	6.2	227	1
24	5270	18	8.9	284	1
25	5270	16	6.6	270	1
26	5270	18	7.5	317	1
27	5270	17	7.8	288	1
28	5270	16	8.5	213	1
29	5270	17	6.8	493	1
30	5270	17	6.4	270	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	5270	13	17.2	260	1
2	5270	13	16.9	332	1
3	5270	15	13.4	478	1
4	5270	16	16.6	426	1
5	5270	12	16.3	336	1
6	5270	16	14.3	287	1
7	5270	15	18.2	428	1
8	5270	15	12.9	206	1
9	5270	13	16.8	329	1
10	5270	14	13.6	390	1
11	5270	12	15.4	396	1
12	5270	14	18.9	225	1
13	5270	13	18.8	432	1
14	5270	15	11.6	386	1
15	5270	14	12.7	370	1
16	5270	14	15.2	208	1
17	5270	15	11.6	332	1
18	5270	15	13.4	325	1
19	5270	16	13.3	367	1
20	5270	14	11.6	316	1
21	5270	16	19.4	384	1
22	5270	16	16.5	247	1
23	5270	16	16.1	252	1
24	5270	15	12.5	265	1
25	5270	12	14.9	436	1
26	5270	13	13.8	497	1
27	5270	14	16.4	486	1
28	5270	15	14.1	487	1
29	5270	12	13	208	1
30	5270	12	11.7	424	1
Detection Percentage: 100 % (>60%)					

Table-5 Radar Type 5 Statistical Performance

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	2	16	95.1	1491		0.020589	
1	2	17	77.7	1002		1.683595	
2	2	14	63.1	1439		2.621264	
3	2	13	90.6	1120		3.228172	
4	2	6	55	1037		4.211311	
5	1	15	54.5			5.908455	
6	1	12	66.1			6.380638	1
7	3	10	62.3	1257	1121	7.949547	
8	3	14	64.5	1813	1421	8.127626	
9	1	7	86.2			9.988221	
10	2	10	61.4	1549		10.667318	
11	1	18	51.4			11.599167	

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	11	50.5	1282		0.372502	
1	2	20	88.4	1594		1.301382	
2	2	12	75.8	1313		1.776015	
3	1	5	88.5			2.469497	
4	3	18	87.3	1232	1634	2.92242	
5	3	19	58.8	1467	1120	3.500793	
6	2	19	64.7	1165		4.494905	
7	2	15	91.8	1074		4.757751	
8	2	8	55.2	1476		5.750231	
9	1	7	78.2			6.309787	1
10	2	18	75.1	1983		7.179769	
11	3	8	56.4	1825	1518	7.411842	
12	2	8	98.8	1604		8.020318	
13	2	20	88.3	1748		8.949461	
14	2	20	75	1582		9.503087	
15	3	7	56.9	1813	1497	10.482681	
16	2	13	74.9	1994		10.742855	
17	1	11	82.7			11.349287	

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	1	5	81.9			0.657777	
1	1	12	97.8			1.378681	
2	1	16	71.4			1.935285	
3	2	8	63.7	1893		2.581588	
4	1	7	62.7			3.557144	
5	2	13	82.4	1328		3.753952	
6	2	18	65.7	1763		4.925575	
7	2	6	54.7	1572		5.26188	
8	2	14	74.5	1827		6.489162	1
9	2	14	72.2	1234		7.20747	
10	2	12	54.6	1994		8.038522	
11	2	19	87.6	1058		8.351634	
12	2	14	59.2	1765		9.472008	
13	1	6	51.1			10.041797	
14	3	5	88.1	1871	1617	10.684438	
15	1	13	70.3			11.544138	

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	9	71.7	1592	1158	0.221238	
1	3	18	88.7	1167	1135	1.223486	
2	2	14	92.4	1714		1.601462	
3	3	10	89.7	1468	1750	2.521076	
4	2	6	75.8	1159		3.763361	
5	2	8	60.9	1161		4.134824	
6	3	16	83.3	1743	1506	5.374707	
7	2	6	60.9	1092		5.802778	1
8	3	14	73.4	1215	1583	7.059916	
9	2	11	70.3	1125		7.288764	
10	2	15	52.6	1362		8.392742	
11	2	19	59.7	1657		8.920525	
12	2	18	58	1403		10.011168	
13	3	18	53.5	1895	1896	10.98122	
14	1	9	62.8			11.770229	

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	12	83.2	1628	1761	1.319538	
1	2	7	88.5	1715		2.350451	
2	2	11	93.3	1432		3.393782	
3	3	16	51.2	1330	1415	4.831515	
4	1	19	89.5			5.458767	1
5	3	16	99.5	1207	1629	7.054783	
6	2	16	90.7	1649		8.041724	
7	1	19	78.5			10.615076	
8	2	8	93.7	1948		11.874419	

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	20	66.4	1024	1861	0.164346	
1	2	18	64	1845		0.948122	
2	1	16	99.2			1.666063	
3	2	5	66.3	1246		2.294355	
4	2	6	76.2	1710		2.994735	
5	1	18	98.5			3.68201	
6	3	16	59	1424	1465	3.793325	
7	2	13	54.2	1310		4.558717	
8	2	19	79	1908		5.433971	
9	2	14	89.3	1452		5.697066	1
10	3	5	52.6	1443	1346	6.398212	
11	2	14	61.2	1402		7.347951	
12	2	11	87	1400		7.872892	
13	3	14	69.3	1660	1558	8.301848	
14	1	8	98.7			8.97324	
15	2	12	65.2	1929		9.739707	
16	2	11	89.3	1527		10.318924	
17	2	16	56.7	1240		10.987958	
18	2	17	94.6	1456		11.428969	

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	6	71.8	1799		0.665314	
1	2	15	80.8	1785		1.458193	
2	1	7	71.7			2.501729	
3	1	17	51.8			4.774293	
4	3	5	74.2	1837	1560	5.826826	
5	3	20	79.4	1789	1479	6.869489	1
6	1	13	65.1			7.944168	
7	2	7	98.9	1747		8.676819	
8	1	9	80.4			10.552663	
9	2	7	85.2	1811		11.585281	

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	90.8	1571	1721	0.430602	
1	2	15	66.1	1002		2.545384	
2	3	10	66.7	1182	1549	3.234527	
3	1	12	74.4			5.141913	
4	1	20	61.7			5.417823	1
5	3	17	80.8	1857	1351	7.847728	
6	2	9	95.2	1676		9.211213	
7	2	14	96.6	1612		9.841903	
8	2	9	66.4	1443		11.862871	

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	14	73.4			0.065394	
1	2	10	67.3	1581		1.300959	
2	2	17	63.9	1113		1.944023	
3	2	7	72.7	1476		2.43606	
4	2	8	77.2	1164		2.965719	
5	3	13	71.8	1564	1285	3.547169	
6	1	11	75.2			4.021906	
7	2	16	78.4	1196		5.158475	
8	3	18	64.1	1166	1877	5.943608	
9	2	18	94.3	1401		6.613183	1
10	3	8	84.3	1160	1477	6.968137	
11	1	6	58.3			7.688729	
12	2	13	78.1	1200		8.297157	
13	2	15	79.1	1596		9.239897	
14	2	17	52.1	1573		9.380559	
15	1	18	50.8			10.006572	
16	2	14	90.7	1487		10.868569	
17	3	15	75.6	1035	1071	11.340049	

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	15	60.7	1013		0.753265	
1	2	9	70.7	1857		1.461675	
2	2	15	69.4	1817		1.963734	
3	2	11	91.7	1895		2.923352	
4	2	10	72.2	1520		3.78024	
5	2	9	66.2	1039		4.711274	
6	2	12	63.1	1809		5.217529	
7	1	16	89.3			5.609058	1
8	2	20	98.7	1474		6.996801	
9	2	20	50.7	1188		7.865155	
10	3	15	88.9	1845	1079	8.189311	
11	3	6	99.1	1961	1442	9.081835	
12	3	5	93.3	1884	1032	10.356494	
13	2	10	55.9	1239		10.788466	
14	1	14	74.4			11.745547	

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	13	89.5	1191		0.771918	
1	2	7	59.3	1996		1.193661	
2	2	16	72.6	1658		1.901505	
3	2	19	92.6	1400		2.770681	
4	2	14	94.9	1434		4.005976	
5	2	19	87.5	1835		4.837494	
6	2	13	97.6	1097		5.431434	
7	1	19	53.6			6.131436	1
8	2	17	79.2	1266		7.116044	
9	1	15	60.8			8.078595	
10	2	20	54.1	1555		8.691258	
11	2	19	51.6	1594		9.782847	
12	1	20	73.6			10.892051	
13	1	6	62.2			11.696926	

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	5	73.8	1575		0.297577	
1	2	9	68.2	1673		1.65811	
2	2	10	81.5	1040		2.818904	
3	3	11	92.8	1922	1381	4.50056	
4	3	9	52.6	1492	1063	6.215461	1
5	3	7	66.9	1268	1365	7.327654	
6	2	14	66	1958		8.337373	
7	2	14	86.3	1149		9.838481	
8	2	7	55.6	1131		10.984672	

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	17	77.8	1591		0.438731	
1	2	12	76	1760		1.21827	
2	2	7	86.8	1616		1.853607	
3	2	18	90.4	1281		2.155906	
4	2	10	60.8	1560		2.893374	
5	1	5	89.9			3.39218	
6	1	18	91.6			3.934756	
7	2	16	90.4	1387		4.767677	
8	2	12	89.5	1863		5.292973	
9	1	10	64.2			5.745855	1
10	1	11	91.9			6.360229	
11	3	19	97.4	1092	1835	7.223128	
12	1	13	62.8			7.637317	
13	3	8	79.9	1420	1899	8.613264	
14	2	11	89.9	1599		9.360666	
15	2	6	66.5	1546		10.057081	
16	3	20	95.6	1177	1786	10.273633	
17	3	15	51.6	1247	1113	10.759267	
18	2	13	56.1	1984		11.665878	

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	12	71.3	1158		0.57366	
1	3	8	52.2	1645	1362	1.93494	
2	2	16	54.8	1526		2.652537	
3	2	20	74.4	1179		4.092263	
4	1	10	67.7			5.630759	1
5	1	9	85.1			6.796135	
6	3	11	77.9	1776	1386	8.152533	
7	2	15	62.7	1261		8.780742	
8	3	11	96	1779	1687	10.784664	
9	2	9	99.8	1309		10.82048	

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	15	95	1453	1322	0.154322	
1	2	8	69.6	1235		0.743277	
2	2	11	83.8	1940		1.601482	
3	2	11	91.3	1606		2.182181	
4	2	12	67.4	1320		2.589583	
5	2	16	65.7	1036		3.537676	
6	2	14	67.4	1166		4.383017	
7	2	6	59.9	1364		4.45611	
8	1	14	63.9			5.491629	
9	3	9	84.5	1346	1420	6.065058	1
10	2	17	82.5	1953		6.585769	
11	1	12	58.6			7.41595	
12	2	7	76.8	1169		8.063174	
13	2	6	61.2	1863		8.216967	
14	1	8	86.9			8.935428	
15	1	5	75.6			9.918882	
16	2	10	74.5	1134		10.298036	
17	2	13	77.6	1284		10.970987	
18	2	7	58.8	1511		11.542369	

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	14	82.8	1342		0.313613	
1	3	19	63.7	1271	1026	0.717601	
2	2	11	57.6	1884		1.86756	
3	1	5	99.1			2.104834	
4	3	11	84.8	1105	1814	2.743149	
5	3	10	54	1318	1153	3.597128	
6	3	12	54.7	1336	1983	4.012099	
7	2	15	94.7	1876		4.594623	
8	2	7	63.3	1807		5.229754	
9	2	6	61.2	1823		6.182426	1
10	2	14	85.6	1351		6.704991	
11	2	13	62.6	1487		7.292201	
12	2	12	67.8	1074		7.58152	
13	2	18	96.4	1228		8.27826	
14	1	12	61.6			9.380448	
15	2	7	69.4	1201		9.568819	
16	2	14	86.4	1701		10.229348	
17	3	10	53.3	1999	1047	10.836464	
18	2	9	94.6	1709		11.912135	

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	19	97.6	1264		0.156895	
1	1	10	95			1.111537	
2	3	5	63.9	1725	1892	1.863825	
3	2	17	81.3	1359		2.306612	
4	2	16	66.9	1300		2.843428	
5	1	9	83.2			3.668317	
6	2	10	75.6	1345		4.745336	
7	1	9	93.4			5.539805	
8	3	19	55.8	1664	1456	5.951936	1
9	2	14	59.3	1509		7.052259	
10	2	8	76.3	1316		7.365977	
11	2	17	83	1436		7.800907	
12	3	13	67.7	1762	1258	8.829213	
13	3	8	65.7	1713	1267	9.66956	
14	2	6	88	1086		10.182426	
15	2	10	84.2	1309		10.693623	
16	2	5	97	1602		11.890856	

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	12	68.1	1645		0.382295	
1	1	14	64.6			1.457781	
2	3	19	79.3	1312	1923	1.779016	
3	2	11	81.6	1002		2.896628	
4	1	15	69.6			3.785278	
5	2	11	95.9	1828		4.305218	
6	3	11	92	1900	1041	4.889947	
7	2	7	52.8	1085		5.918278	1
8	3	6	88.6	1209	1971	6.999618	
9	2	6	81.7	1316		7.660857	
10	1	6	70.1			8.101522	
11	2	11	99.8	1738		8.981304	
12	1	7	61			9.613523	
13	2	6	66.7	1234		10.995891	
14	1	16	93.4			11.725171	

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	76.1	1886	1915	0.09579	
1	2	8	58.8	1299		0.650484	
2	2	12	52.1	1875		1.777204	
3	1	16	50.8			1.914148	
4	3	7	62.2	1075	1591	2.753257	
5	1	19	94.1			3.620103	
6	2	13	60.8	1609		3.956024	
7	2	8	74.6	1662		4.4414	
8	2	15	80.5	1578		5.517886	
9	1	19	78.7			5.705683	1
10	1	16	63.6			6.318399	
11	2	14	88.4	1065		7.397867	
12	2	12	52.5	1298		8.064592	
13	2	11	61.2	1549		8.445998	
14	2	16	97.3	1794		9.253938	
15	1	7	55.1			9.697904	
16	1	11	58.5			10.439444	
17	1	20	76.5			11.199809	
18	1	10	90.2			11.8219	

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	19	70.6	1549		0.470878	
1	3	15	92.4	1813	1085	1.872363	
2	2	6	59.1	1069		2.614603	
3	2	15	95.3	1959		4.20254	
4	1	11	83.7			5.061587	
5	2	12	90.9	1810		6.105476	1
6	2	9	51.7	1356		7.883324	
7	2	12	74.3	1853		9.383248	
8	2	9	76.6	1472		9.715752	
9	3	5	55.3	1706	1069	11.960859	

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	14	80.2	1885		0.555456	
1	2	9	88.4	1751		2.630737	
2	1	19	55.1			2.911461	
3	3	8	58.2	1479	1056	4.734219	1
4	3	13	62.2	1318	1733	5.965592	
5	2	14	99	1265		7.433708	
6	2	9	51.5	1504		8.155215	
8	1	15	82.1			11.863208	

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	18	59.5	1304	1210	0.059364	
1	3	14	58.5	1175	1100	1.223912	
2	2	14	55.5	1095		2.011373	
3	1	10	78.8			3.099793	
4	2	5	54.6	1939		4.133314	
5	3	18	59.9	1397	1881	4.662679	
6	2	11	81.2	1781		5.505272	
7	2	14	58.5	1394		6.524719	1
8	2	15	63	1639		7.095435	
9	3	7	94.1	1682	1757	8.284001	
10	2	9	75.2	1047		9.260505	
11	1	8	96.9			9.599904	
12	2	8	57.5	1461		10.664784	
13	2	13	81.9	1732		11.554889	

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	1	14	83			0.712327	
1	1	6	76.8			2.114708	
2	1	20	86.8			2.947504	
3	2	9	98.3	1997		3.896232	
4	2	11	77.4	1872		5.848033	
5	2	17	62.8	1689		6.526623	1
6	2	10	78.1	1847		7.285715	
7	2	7	94.5	1324		8.933126	
8	1	8	94.2			10.4799	
9	2	19	50.9	1476		11.860081	

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	8	82.7	1139		0.387584	
1	1	5	60			0.694629	
2	2	19	80.7	1122		1.770729	
3	1	7	66.9			2.332441	
4	1	9	86.6			2.669053	
5	2	12	77.6	1694		3.138511	
6	3	7	75.4	1199	1391	3.812841	
7	2	14	79.3	1084		4.38717	
8	3	8	95.1	1319	1281	5.235885	
9	3	9	96.8	1436	1924	5.416684	
10	2	15	77.7	1312		6.509861	1
11	2	8	55.4	1806		7.100451	
12	2	14	52.9	1773		7.346605	
13	2	11	59.5	1066		7.902333	
14	2	17	74.6	1022		8.722656	
15	2	7	72.4	1995		9.514133	
16	2	16	76.1	1381		9.724436	
17	2	14	62.4	1699		10.442527	
18	2	16	64.4	1078		11.122071	
19	1	17	93			11.874193	

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	77.6	1831		0.518632	
1	2	19	94.8	1199		1.272378	
2	1	7	63.6			2.19422	
3	2	7	88.8	1724		2.598722	
4	2	14	82.6	1375		3.69728	
5	3	19	67	1797	1657	4.764997	
6	2	12	55.1	1993		5.262239	
7	2	6	61.9	1308		5.699729	1
8	2	19	79.8	1284		6.933385	
9	3	11	62.1	1466	1136	7.742724	
10	3	12	74	1777	1221	8.472032	
11	2	19	78.2	1449		9.199731	
12	2	11	68.4	1214		10.210816	
13	3	12	75.8	1273	1907	10.818092	
14	2	20	65.7	1541		11.899076	

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	15	51	1928		0.54245	
1	1	19	78.7			1.647094	
2	2	8	92.8	1498		2.073707	
3	3	8	96	1300	1626	2.707416	
4	2	19	62.7	1792		4.040447	
5	1	8	60.4			4.335743	
6	2	10	68.5	1113		5.810871	
7	2	7	96.9	1862		6.663294	1
8	1	7	77.3			7.559534	
9	2	17	78.3	1673		8.511642	
10	2	6	57.9	1799		8.830179	
11	3	7	74.1	1361	1808	9.975456	
12	2	11	93.9	1768		10.406364	
13	2	9	56.9	1059		11.726008	

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	11	50.7			0.576893	
1	2	11	89.8	1693		1.404021	
2	2	19	78.3	1160		1.969662	
3	2	15	97	1993		3.22638	
4	2	19	86.9	1124		3.510771	
5	1	12	63.2			4.374517	
6	2	13	68.4	1062		5.719905	
7	2	15	87.5	1799		6.510352	1
8	3	10	61.2	1019	1392	6.980512	
9	2	16	66.7	1766		7.78806	
10	2	14	67.8	1117		8.889299	
11	2	7	84.8	1101		10.258734	
12	3	13	81.9	1326	1344	10.38818	
13	2	18	88.7	1517		11.511708	

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	18	89.2	1499	1890	0.238108	
1	3	19	82.8	1945	1953	0.857294	
2	3	11	58.3	1175	1746	1.505335	
3	3	6	72.2	1377	1881	2.511513	
4	2	8	92.5	1044		2.912225	
5	1	20	84.6			3.734014	
6	2	16	67.6	1307		4.377191	
7	2	19	66.7	1756		5.269627	
8	1	10	98.9			5.954129	1
9	2	9	86.7	1157		6.633971	
10	3	18	95	1648	1040	7.198212	
11	2	20	76.3	1286		7.858055	
12	3	14	95.3	1362	1035	8.962296	
13	2	8	79	1046		9.602162	
14	1	5	78.9			10.500967	
15	2	18	65.6	1691		10.947288	
16	2	8	84.2	1103		11.333248	

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	8	56.2	1714	1039	0.050251	
1	1	13	50.5			1.238672	
2	2	14	68	1421		1.782576	
3	3	14	66.6	1150	1901	1.930935	
4	1	8	52.4			3.139975	
5	1	13	57.9			3.720833	
6	2	13	92.3	1931		3.955481	
7	2	12	74	1665		4.590939	
8	1	9	65.2			5.514385	
9	1	9	91.6			6.102166	1
10	2	11	64.1	1037		6.81111	
11	2	9	67.4	1236		6.996279	
12	2	19	93.6	1971		7.902488	
13	2	18	69.7	1079		8.515436	
14	3	11	59.8	1669	1075	8.904239	
15	2	14	58.3	1978		9.491493	
16	1	6	54			10.433907	
17	3	19	82.5	1095	1467	11.111366	
18	2	10	72.4	1397		11.598533	

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	17	92.1	1987		0.730406	
1	2	15	50.4	1841		1.517564	
2	2	14	68.7	1347		2.311629	
3	2	14	93.8	1121		4.080998	
4	2	17	98.2	1832		5.209349	
5	3	6	86.8	1204	1065	5.578329	1
6	2	20	51.9	1220		6.610461	
7	3	17	79.3	1497	1542	7.888986	
8	3	8	88	1891	1551	9.623254	
9	1	17	83.1			10.299982	
10	2	19	55.7	1355		11.538245	

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	5376.0, 5648.0, 5497.0, 5432.0, 5701.0, 5323.0, 5624.0, 5677.0, 5516.0, 5685.0, 5720.0, 5330.0, 5406.0, 5412.0, 5500.0, 5385.0, 5405.0, 5575.0, 5566.0, 5663.0, 5438.0, 5691.0, 5479.0, 5363.0, 5522.0, 5424.0, 5454.0, 5258.0, 5525.0, 5587.0, 5448.0, 5638.0, 5682.0, 5301.0, 5478.0, 5425.0, 5576.0, 5391.0, 5352.0, 5582.0, 5336.0, 5366.0, 5384.0, 5362.0, 5661.0, 5361.0, 5436.0, 5292.0, 5511.0, 5622.0, 5346.0, 5619.0, 5585.0, 5487.0, 5395.0, 5271.0, 5433.0, 5543.0, 5350.0, 5644.0, 5712.0, 5667.0, 5298.0, 5527.0, 5604.0, 5308.0, 5460.0, 5444.0, 5416.0, 5506.0, 5523.0, 5387.0, 5388.0, 5458.0, 5694.0, 5339.0, 5278.0, 5267.0, 5684.0, 5324.0, 5276.0, 5490.0, 5452.0, 5477.0, 5676.0, 5633.0, 5441.0, 5559.0, 5616.0, 5646.0, 5557.0, 5634.0, 5607.0, 5275.0, 5410.0, 5290.0, 5625.0, 5620.0, 5558.0, 5315.0 (number of hits: 5)
2	5270	9	1	333	1	5437.0, 5271.0, 5434.0, 5455.0, 5280.0, 5472.0, 5307.0, 5589.0, 5572.0, 5375.0, 5554.0, 5321.0, 5691.0, 5724.0, 5453.0, 5373.0, 5276.0, 5555.0, 5462.0, 5409.0, 5539.0, 5564.0, 5456.0, 5252.0, 5476.0, 5325.0, 5710.0, 5708.0, 5575.0, 5380.0, 5523.0, 5393.0, 5474.0, 5505.0, 5285.0, 5498.0, 5615.0, 5468.0, 5559.0, 5560.0, 5577.0, 5616.0, 5429.0, 5289.0, 5681.0, 5412.0, 5504.0, 5487.0, 5645.0, 5694.0, 5558.0, 5269.0, 5584.0, 5529.0, 5379.0, 5649.0, 5720.0, 5428.0, 5458.0, 5722.0, 5310.0, 5704.0, 5281.0, 5371.0, 5634.0, 5515.0, 5264.0, 5480.0, 5544.0, 5469.0, 5347.0, 5644.0, 5417.0, 5683.0, 5407.0, 5586.0, 5404.0, 5705.0, 5541.0, 5491.0, 5693.0, 5718.0, 5326.0, 5345.0, 5400.0, 5680.0, 5448.0, 5625.0, 5253.0, 5698.0, 5671.0, 5692.0, 5328.0, 5422.0, 5590.0, 5537.0, 5542.0, 5312.0, 5341.0, 5591.0 (number of hits: 5)
3	5270	9	1	333	1	5698.0, 5550.0, 5254.0, 5603.0, 5554.0, 5379.0, 5306.0, 5494.0, 5354.0, 5311.0, 5590.0, 5397.0, 5455.0, 5597.0, 5308.0, 5543.0, 5548.0, 5462.0, 5435.0, 5585.0, 5574.0, 5502.0, 5491.0, 5714.0, 5290.0, 5338.0, 5284.0, 5709.0, 5652.0, 5631.0, 5512.0, 5533.0, 5719.0, 5602.0, 5686.0, 5663.0, 5521.0, 5621.0, 5532.0, 5479.0, 5323.0, 5567.0, 5538.0, 5690.0, 5315.0, 5682.0, 5263.0, 5669.0, 5640.0, 5270.0, 5430.0, 5700.0, 5592.0, 5277.0, 5336.0, 5488.0, 5658.0, 5264.0, 5514.0, 5466.0,

						5469.0, 5358.0, 5355.0, 5707.0, 5414.0, 5387.0, 5675.0, 5356.0, 5456.0, 5534.0, 5415.0, 5627.0, 5708.0, 5641.0, 5450.0, 5252.0, 5451.0, 5393.0, 5280.0, 5307.0, 5325.0, 5346.0, 5656.0, 5526.0, 5699.0, 5570.0, 5569.0, 5299.0, 5721.0, 5471.0, 5443.0, 5268.0, 5407.0, 5425.0, 5413.0, 5524.0, 5357.0, 5634.0, 5417.0, 5565.0 (number of hits: 6)
4	5270	9	1	333	1	5385.0, 5374.0, 5497.0, 5289.0, 5343.0, 5609.0, 5564.0, 5323.0, 5407.0, 5676.0, 5526.0, 5376.0, 5316.0, 5457.0, 5552.0, 5512.0, 5556.0, 5588.0, 5550.0, 5711.0, 5716.0, 5315.0, 5584.0, 5709.0, 5271.0, 5524.0, 5475.0, 5367.0, 5351.0, 5697.0, 5276.0, 5386.0, 5365.0, 5695.0, 5304.0, 5720.0, 5656.0, 5297.0, 5569.0, 5461.0, 5273.0, 5519.0, 5705.0, 5715.0, 5703.0, 5509.0, 5610.0, 5636.0, 5372.0, 5555.0, 5567.0, 5452.0, 5267.0, 5292.0, 5632.0, 5604.0, 5533.0, 5596.0, 5607.0, 5284.0, 5600.0, 5503.0, 5576.0, 5647.0, 5355.0, 5525.0, 5422.0, 5718.0, 5487.0, 5290.0, 5408.0, 5382.0, 5652.0, 5268.0, 5691.0, 5580.0, 5441.0, 5357.0, 5344.0, 5562.0, 5572.0, 5523.0, 5320.0, 5468.0, 5321.0, 5629.0, 5324.0, 5490.0, 5411.0, 5446.0, 5683.0, 5688.0, 5650.0, 5597.0, 5306.0, 5721.0, 5663.0, 5458.0, 5319.0, 5352.0 (number of hits: 6)
5	5270	9	1	333	1	5607.0, 5365.0, 5493.0, 5481.0, 5682.0, 5527.0, 5304.0, 5664.0, 5394.0, 5287.0, 5342.0, 5721.0, 5403.0, 5379.0, 5463.0, 5398.0, 5418.0, 5572.0, 5661.0, 5492.0, 5334.0, 5606.0, 5666.0, 5429.0, 5576.0, 5400.0, 5320.0, 5479.0, 5506.0, 5617.0, 5427.0, 5581.0, 5501.0, 5353.0, 5350.0, 5251.0, 5483.0, 5543.0, 5638.0, 5546.0, 5485.0, 5511.0, 5495.0, 5597.0, 5537.0, 5579.0, 5307.0, 5582.0, 5695.0, 5523.0, 5369.0, 5377.0, 5355.0, 5524.0, 5671.0, 5441.0, 5371.0, 5648.0, 5528.0, 5698.0, 5470.0, 5471.0, 5442.0, 5545.0, 5356.0, 5612.0, 5456.0, 5584.0, 5399.0, 5446.0, 5499.0, 5696.0, 5348.0, 5285.0, 5667.0, 5293.0, 5513.0, 5256.0, 5706.0, 5486.0, 5382.0, 5402.0, 5408.0, 5454.0, 5644.0, 5636.0, 5428.0, 5366.0, 5496.0, 5645.0, 5257.0, 5686.0, 5665.0, 5625.0, 5595.0, 5372.0, 5311.0, 5265.0, 5329.0, 5487.0 (number of hits: 6)
6	5270	9	1	333	1	5723.0, 5566.0, 5339.0, 5538.0, 5679.0, 5697.0, 5315.0, 5450.0, 5438.0, 5268.0, 5596.0, 5578.0, 5472.0, 5335.0, 5523.0, 5612.0, 5704.0, 5355.0, 5671.0, 5342.0, 5496.0, 5651.0, 5396.0, 5299.0, 5520.0, 5640.0, 5716.0, 5308.0, 5291.0, 5501.0, 5392.0, 5589.0, 5465.0, 5270.0, 5415.0, 5579.0, 5394.0, 5639.0, 5602.0, 5365.0,

						5486.0, 5657.0, 5676.0, 5319.0, 5636.0, 5522.0, 5337.0, 5686.0, 5597.0, 5708.0, 5495.0, 5471.0, 5575.0, 5385.0, 5294.0, 5343.0, 5383.0, 5413.0, 5703.0, 5320.0, 5511.0, 5314.0, 5306.0, 5514.0, 5600.0, 5709.0, 5634.0, 5250.0, 5642.0, 5567.0, 5711.0, 5406.0, 5616.0, 5483.0, 5615.0, 5587.0, 5518.0, 5449.0, 5431.0, 5258.0, 5278.0, 5576.0, 5427.0, 5621.0, 5429.0, 5301.0, 5361.0, 5515.0, 5419.0, 5428.0, 5647.0, 5469.0, 5717.0, 5544.0, 5695.0, 5557.0, 5551.0, 5404.0, 5665.0, 5457.0 (number of hits: 7)
7	5270	9	1	333	1	5495.0, 5607.0, 5432.0, 5503.0, 5318.0, 5439.0, 5600.0, 5714.0, 5466.0, 5401.0, 5418.0, 5542.0, 5364.0, 5513.0, 5583.0, 5648.0, 5282.0, 5593.0, 5316.0, 5562.0, 5335.0, 5705.0, 5523.0, 5642.0, 5273.0, 5303.0, 5338.0, 5509.0, 5576.0, 5671.0, 5682.0, 5326.0, 5688.0, 5476.0, 5694.0, 5480.0, 5647.0, 5329.0, 5522.0, 5651.0, 5366.0, 5387.0, 5568.0, 5263.0, 5409.0, 5406.0, 5604.0, 5609.0, 5461.0, 5277.0, 5561.0, 5440.0, 5341.0, 5674.0, 5272.0, 5269.0, 5330.0, 5467.0, 5502.0, 5660.0, 5667.0, 5376.0, 5646.0, 5443.0, 5585.0, 5709.0, 5307.0, 5384.0, 5398.0, 5379.0, 5685.0, 5331.0, 5428.0, 5420.0, 5299.0, 5636.0, 5595.0, 5400.0, 5453.0, 5312.0, 5423.0, 5551.0, 5591.0, 5362.0, 5638.0, 5353.0, 5499.0, 5622.0, 5359.0, 5339.0, 5459.0, 5458.0, 5337.0, 5700.0, 5360.0, 5592.0, 5314.0, 5298.0, 5658.0, 5663.0 (number of hits: 6)
8	5270	9	1	333	1	5373.0, 5324.0, 5663.0, 5652.0, 5298.0, 5345.0, 5704.0, 5329.0, 5408.0, 5344.0, 5411.0, 5475.0, 5598.0, 5586.0, 5302.0, 5256.0, 5305.0, 5433.0, 5261.0, 5504.0, 5698.0, 5263.0, 5465.0, 5599.0, 5483.0, 5381.0, 5690.0, 5640.0, 5554.0, 5325.0, 5691.0, 5480.0, 5279.0, 5569.0, 5623.0, 5339.0, 5648.0, 5657.0, 5576.0, 5723.0, 5676.0, 5545.0, 5370.0, 5341.0, 5540.0, 5724.0, 5350.0, 5538.0, 5605.0, 5717.0, 5406.0, 5460.0, 5289.0, 5363.0, 5532.0, 5419.0, 5346.0, 5583.0, 5390.0, 5699.0, 5608.0, 5513.0, 5506.0, 5649.0, 5588.0, 5673.0, 5616.0, 5706.0, 5685.0, 5392.0, 5272.0, 5611.0, 5317.0, 5443.0, 5384.0, 5687.0, 5519.0, 5323.0, 5665.0, 5632.0, 5535.0, 5456.0, 5701.0, 5478.0, 5711.0, 5343.0, 5455.0, 5312.0, 5581.0, 5592.0, 5445.0, 5590.0, 5284.0, 5551.0, 5286.0, 5311.0, 5347.0, 5560.0, 5615.0, 5435.0 (number of hits: 7)
9	5270	9	1	333	1	5577.0, 5691.0, 5621.0, 5641.0, 5304.0, 5448.0, 5721.0, 5397.0, 5391.0, 5259.0, 5569.0, 5382.0, 5353.0, 5663.0, 5453.0, 5481.0, 5301.0, 5427.0, 5685.0, 5650.0,

						5456.0, 5295.0, 5548.0, 5679.0, 5483.0, 5396.0, 5292.0, 5285.0, 5632.0, 5711.0, 5638.0, 5357.0, 5413.0, 5667.0, 5438.0, 5265.0, 5532.0, 5302.0, 5440.0, 5616.0, 5340.0, 5424.0, 5662.0, 5264.0, 5375.0, 5485.0, 5590.0, 5512.0, 5515.0, 5699.0, 5449.0, 5516.0, 5484.0, 5431.0, 5434.0, 5336.0, 5252.0, 5665.0, 5692.0, 5341.0, 5612.0, 5722.0, 5610.0, 5347.0, 5666.0, 5416.0, 5291.0, 5373.0, 5588.0, 5475.0, 5359.0, 5398.0, 5283.0, 5543.0, 5511.0, 5558.0, 5350.0, 5280.0, 5648.0, 5307.0, 5310.0, 5669.0, 5476.0, 5534.0, 5630.0, 5541.0, 5463.0, 5444.0, 5267.0, 5561.0, 5333.0, 5709.0, 5528.0, 5631.0, 5710.0, 5716.0, 5446.0, 5656.0, 5290.0, 5657.0 (number of hits: 10)
10	5270	9	1	333	1	5357.0, 5292.0, 5356.0, 5252.0, 5450.0, 5467.0, 5545.0, 5314.0, 5531.0, 5385.0, 5386.0, 5360.0, 5683.0, 5557.0, 5445.0, 5604.0, 5517.0, 5449.0, 5352.0, 5717.0, 5575.0, 5554.0, 5321.0, 5708.0, 5366.0, 5511.0, 5572.0, 5719.0, 5278.0, 5663.0, 5258.0, 5465.0, 5378.0, 5470.0, 5705.0, 5667.0, 5491.0, 5325.0, 5442.0, 5425.0, 5485.0, 5266.0, 5521.0, 5690.0, 5397.0, 5629.0, 5431.0, 5288.0, 5564.0, 5551.0, 5672.0, 5388.0, 5630.0, 5432.0, 5300.0, 5342.0, 5723.0, 5613.0, 5579.0, 5682.0, 5419.0, 5505.0, 5552.0, 5515.0, 5421.0, 5595.0, 5479.0, 5268.0, 5707.0, 5713.0, 5584.0, 5317.0, 5619.0, 5635.0, 5447.0, 5664.0, 5459.0, 5507.0, 5327.0, 5710.0, 5272.0, 5309.0, 5429.0, 5689.0, 5650.0, 5601.0, 5351.0, 5498.0, 5658.0, 5493.0, 5693.0, 5303.0, 5253.0, 5380.0, 5355.0, 5702.0, 5395.0, 5544.0, 5503.0, 5460.0 (number of hits: 6)
11	5270	9	1	333	1	5363.0, 5416.0, 5303.0, 5476.0, 5439.0, 5341.0, 5401.0, 5715.0, 5713.0, 5259.0, 5489.0, 5357.0, 5671.0, 5572.0, 5345.0, 5379.0, 5466.0, 5544.0, 5464.0, 5440.0, 5431.0, 5267.0, 5445.0, 5307.0, 5662.0, 5255.0, 5629.0, 5589.0, 5413.0, 5387.0, 5321.0, 5328.0, 5292.0, 5703.0, 5384.0, 5455.0, 5331.0, 5327.0, 5485.0, 5376.0, 5492.0, 5533.0, 5592.0, 5672.0, 5503.0, 5436.0, 5529.0, 5397.0, 5657.0, 5316.0, 5467.0, 5488.0, 5714.0, 5516.0, 5720.0, 5507.0, 5491.0, 5260.0, 5276.0, 5598.0, 5418.0, 5463.0, 5518.0, 5424.0, 5716.0, 5504.0, 5448.0, 5692.0, 5295.0, 5609.0, 5542.0, 5484.0, 5315.0, 5550.0, 5419.0, 5268.0, 5577.0, 5441.0, 5452.0, 5519.0, 5614.0, 5710.0, 5344.0, 5456.0, 5566.0, 5493.0, 5407.0, 5706.0, 5299.0, 5545.0, 5352.0, 5283.0, 5457.0, 5658.0, 5615.0, 5616.0, 5669.0, 5359.0, 5263.0, 5526.0 (number of hits: 5)

12	5270	9	1	333	1	5444.0, 5345.0, 5303.0, 5722.0, 5304.0, 5258.0, 5724.0, 5636.0, 5605.0, 5673.0, 5441.0, 5574.0, 5686.0, 5678.0, 5445.0, 5476.0, 5691.0, 5254.0, 5698.0, 5669.0, 5379.0, 5512.0, 5515.0, 5547.0, 5309.0, 5457.0, 5576.0, 5485.0, 5257.0, 5525.0, 5552.0, 5256.0, 5652.0, 5601.0, 5423.0, 5488.0, 5586.0, 5707.0, 5328.0, 5277.0, 5654.0, 5508.0, 5430.0, 5401.0, 5596.0, 5440.0, 5716.0, 5293.0, 5571.0, 5327.0, 5612.0, 5631.0, 5530.0, 5288.0, 5268.0, 5630.0, 5389.0, 5323.0, 5546.0, 5659.0, 5494.0, 5266.0, 5568.0, 5567.0, 5337.0, 5294.0, 5439.0, 5632.0, 5453.0, 5419.0, 5464.0, 5263.0, 5316.0, 5481.0, 5264.0, 5336.0, 5676.0, 5600.0, 5588.0, 5570.0, 5617.0, 5665.0, 5366.0, 5587.0, 5720.0, 5255.0, 5318.0, 5505.0, 5432.0, 5661.0, 5498.0, 5503.0, 5415.0, 5641.0, 5522.0, 5625.0, 5492.0, 5472.0, 5702.0, 5660.0 (number of hits: 6)
13	5270	9	1	333	1	5598.0, 5630.0, 5592.0, 5622.0, 5305.0, 5310.0, 5297.0, 5525.0, 5261.0, 5386.0, 5355.0, 5546.0, 5639.0, 5384.0, 5413.0, 5590.0, 5444.0, 5473.0, 5283.0, 5532.0, 5405.0, 5680.0, 5517.0, 5646.0, 5371.0, 5342.0, 5663.0, 5325.0, 5472.0, 5462.0, 5298.0, 5408.0, 5311.0, 5383.0, 5412.0, 5614.0, 5467.0, 5542.0, 5676.0, 5623.0, 5602.0, 5282.0, 5673.0, 5456.0, 5618.0, 5421.0, 5308.0, 5548.0, 5322.0, 5701.0, 5392.0, 5377.0, 5316.0, 5633.0, 5579.0, 5484.0, 5635.0, 5566.0, 5695.0, 5375.0, 5561.0, 5361.0, 5459.0, 5640.0, 5509.0, 5343.0, 5436.0, 5491.0, 5431.0, 5615.0, 5294.0, 5333.0, 5281.0, 5714.0, 5608.0, 5580.0, 5268.0, 5481.0, 5506.0, 5522.0, 5492.0, 5543.0, 5572.0, 5324.0, 5257.0, 5349.0, 5558.0, 5498.0, 5398.0, 5687.0, 5705.0, 5503.0, 5329.0, 5616.0, 5284.0, 5709.0, 5571.0, 5320.0, 5471.0, 5254.0 (number of hits: 7)
14	5270	9	1	333	1	5309.0, 5623.0, 5251.0, 5548.0, 5508.0, 5533.0, 5295.0, 5441.0, 5484.0, 5681.0, 5587.0, 5430.0, 5606.0, 5723.0, 5308.0, 5339.0, 5522.0, 5621.0, 5330.0, 5689.0, 5276.0, 5672.0, 5329.0, 5674.0, 5713.0, 5656.0, 5557.0, 5264.0, 5326.0, 5596.0, 5585.0, 5439.0, 5352.0, 5551.0, 5422.0, 5385.0, 5431.0, 5346.0, 5700.0, 5488.0, 5573.0, 5632.0, 5514.0, 5589.0, 5515.0, 5635.0, 5292.0, 5715.0, 5593.0, 5311.0, 5547.0, 5529.0, 5721.0, 5321.0, 5708.0, 5414.0, 5661.0, 5567.0, 5649.0, 5469.0, 5462.0, 5668.0, 5598.0, 5363.0, 5344.0, 5719.0, 5303.0, 5454.0, 5335.0, 5350.0, 5402.0, 5698.0, 5639.0, 5578.0, 5432.0, 5417.0, 5707.0, 5506.0, 5354.0, 5291.0, 5569.0, 5535.0, 5568.0, 5691.0, 5266.0,

						5624.0, 5566.0, 5273.0, 5279.0, 5586.0, 5491.0, 5688.0, 5485.0, 5513.0, 5716.0, 5452.0, 5489.0, 5704.0, 5511.0, 5337.0 (number of hits: 7)
15	5270	9	1	333	1	5542.0, 5336.0, 5724.0, 5293.0, 5347.0, 5330.0, 5279.0, 5256.0, 5604.0, 5312.0, 5439.0, 5721.0, 5543.0, 5693.0, 5685.0, 5521.0, 5697.0, 5385.0, 5309.0, 5587.0, 5650.0, 5313.0, 5662.0, 5337.0, 5517.0, 5560.0, 5505.0, 5513.0, 5435.0, 5511.0, 5479.0, 5474.0, 5310.0, 5467.0, 5352.0, 5422.0, 5363.0, 5680.0, 5616.0, 5586.0, 5445.0, 5262.0, 5358.0, 5384.0, 5523.0, 5563.0, 5426.0, 5589.0, 5257.0, 5664.0, 5607.0, 5341.0, 5663.0, 5393.0, 5620.0, 5596.0, 5370.0, 5506.0, 5457.0, 5354.0, 5417.0, 5566.0, 5581.0, 5433.0, 5692.0, 5641.0, 5519.0, 5537.0, 5258.0, 5437.0, 5585.0, 5443.0, 5625.0, 5510.0, 5600.0, 5436.0, 5656.0, 5553.0, 5451.0, 5552.0, 5402.0, 5606.0, 5504.0, 5316.0, 5564.0, 5649.0, 5470.0, 5303.0, 5547.0, 5703.0, 5573.0, 5626.0, 5377.0, 5665.0, 5418.0, 5283.0, 5671.0, 5454.0, 5427.0, 5593.0 (number of hits: 6)
16	5270	9	1	333	1	5496.0, 5525.0, 5377.0, 5345.0, 5437.0, 5722.0, 5325.0, 5280.0, 5265.0, 5587.0, 5487.0, 5295.0, 5275.0, 5319.0, 5715.0, 5508.0, 5298.0, 5431.0, 5412.0, 5708.0, 5603.0, 5436.0, 5575.0, 5270.0, 5663.0, 5281.0, 5329.0, 5376.0, 5409.0, 5706.0, 5593.0, 5633.0, 5604.0, 5534.0, 5620.0, 5595.0, 5404.0, 5723.0, 5527.0, 5684.0, 5311.0, 5466.0, 5277.0, 5567.0, 5650.0, 5305.0, 5392.0, 5458.0, 5396.0, 5718.0, 5381.0, 5526.0, 5570.0, 5443.0, 5302.0, 5315.0, 5558.0, 5489.0, 5658.0, 5312.0, 5284.0, 5665.0, 5460.0, 5662.0, 5285.0, 5554.0, 5692.0, 5453.0, 5694.0, 5446.0, 5503.0, 5328.0, 5343.0, 5524.0, 5599.0, 5272.0, 5691.0, 5561.0, 5546.0, 5714.0, 5644.0, 5334.0, 5701.0, 5339.0, 5586.0, 5251.0, 5678.0, 5616.0, 5340.0, 5323.0, 5521.0, 5468.0, 5651.0, 5522.0, 5378.0, 5393.0, 5615.0, 5686.0, 5600.0, 5711.0 (number of hits: 7)
17	5270	9	1	333	1	5380.0, 5372.0, 5687.0, 5371.0, 5487.0, 5503.0, 5481.0, 5562.0, 5520.0, 5413.0, 5611.0, 5293.0, 5353.0, 5598.0, 5479.0, 5279.0, 5666.0, 5589.0, 5308.0, 5300.0, 5706.0, 5271.0, 5602.0, 5477.0, 5619.0, 5723.0, 5423.0, 5658.0, 5515.0, 5251.0, 5489.0, 5389.0, 5255.0, 5303.0, 5415.0, 5482.0, 5563.0, 5587.0, 5457.0, 5441.0, 5312.0, 5691.0, 5639.0, 5268.0, 5347.0, 5263.0, 5547.0, 5529.0, 5258.0, 5462.0, 5378.0, 5398.0, 5648.0, 5488.0, 5664.0, 5501.0, 5460.0, 5289.0, 5428.0, 5475.0, 5504.0, 5333.0, 5613.0, 5575.0, 5718.0,

						5707.0, 5657.0, 5721.0, 5252.0, 5716.0, 5406.0, 5455.0, 5421.0, 5714.0, 5719.0, 5257.0, 5502.0, 5391.0, 5662.0, 5326.0, 5309.0, 5499.0, 5601.0, 5373.0, 5321.0, 5555.0, 5311.0, 5577.0, 5442.0, 5456.0, 5379.0, 5582.0, 5325.0, 5344.0, 5322.0, 5397.0, 5702.0, 5564.0, 5583.0, 5673.0 (number of hits: 8)
18	5270	9	1	333	1	5606.0, 5367.0, 5319.0, 5360.0, 5499.0, 5295.0, 5661.0, 5390.0, 5391.0, 5720.0, 5401.0, 5355.0, 5505.0, 5449.0, 5373.0, 5534.0, 5281.0, 5613.0, 5398.0, 5594.0, 5501.0, 5532.0, 5285.0, 5434.0, 5709.0, 5258.0, 5411.0, 5482.0, 5614.0, 5602.0, 5413.0, 5371.0, 5301.0, 5290.0, 5550.0, 5591.0, 5508.0, 5691.0, 5272.0, 5265.0, 5551.0, 5673.0, 5517.0, 5567.0, 5442.0, 5468.0, 5410.0, 5460.0, 5660.0, 5451.0, 5626.0, 5271.0, 5597.0, 5339.0, 5533.0, 5574.0, 5407.0, 5541.0, 5357.0, 5432.0, 5424.0, 5327.0, 5337.0, 5431.0, 5420.0, 5454.0, 5629.0, 5605.0, 5514.0, 5311.0, 5679.0, 5587.0, 5556.0, 5644.0, 5381.0, 5525.0, 5356.0, 5385.0, 5555.0, 5496.0, 5289.0, 5429.0, 5537.0, 5340.0, 5359.0, 5422.0, 5487.0, 5291.0, 5425.0, 5717.0, 5439.0, 5294.0, 5279.0, 5548.0, 5502.0, 5322.0, 5521.0, 5255.0, 5362.0, 5387.0 (number of hits: 8)
19	5270	9	1	333	1	5598.0, 5443.0, 5428.0, 5652.0, 5297.0, 5392.0, 5461.0, 5619.0, 5276.0, 5456.0, 5357.0, 5301.0, 5574.0, 5719.0, 5636.0, 5348.0, 5687.0, 5648.0, 5662.0, 5345.0, 5431.0, 5721.0, 5560.0, 5519.0, 5502.0, 5499.0, 5278.0, 5628.0, 5434.0, 5408.0, 5718.0, 5335.0, 5578.0, 5664.0, 5622.0, 5581.0, 5426.0, 5595.0, 5313.0, 5284.0, 5353.0, 5710.0, 5399.0, 5451.0, 5379.0, 5314.0, 5350.0, 5483.0, 5420.0, 5505.0, 5277.0, 5589.0, 5415.0, 5604.0, 5338.0, 5515.0, 5413.0, 5410.0, 5508.0, 5548.0, 5412.0, 5530.0, 5376.0, 5418.0, 5550.0, 5618.0, 5405.0, 5439.0, 5575.0, 5592.0, 5487.0, 5493.0, 5509.0, 5280.0, 5447.0, 5523.0, 5573.0, 5717.0, 5524.0, 5286.0, 5478.0, 5599.0, 5453.0, 5417.0, 5352.0, 5440.0, 5442.0, 5569.0, 5556.0, 5485.0, 5564.0, 5268.0, 5287.0, 5315.0, 5458.0, 5289.0, 5529.0, 5558.0, 5469.0, 5251.0 (number of hits: 7)
20	5270	9	1	333	1	5307.0, 5680.0, 5536.0, 5373.0, 5313.0, 5702.0, 5487.0, 5551.0, 5718.0, 5260.0, 5658.0, 5587.0, 5589.0, 5695.0, 5657.0, 5661.0, 5476.0, 5634.0, 5436.0, 5479.0, 5477.0, 5274.0, 5667.0, 5594.0, 5538.0, 5371.0, 5546.0, 5655.0, 5556.0, 5451.0, 5698.0, 5438.0, 5321.0, 5394.0, 5396.0, 5281.0, 5372.0, 5480.0, 5529.0, 5616.0, 5653.0, 5452.0, 5578.0, 5664.0, 5717.0,

						5491.0, 5709.0, 5356.0, 5650.0, 5322.0, 5488.0, 5597.0, 5504.0, 5482.0, 5463.0, 5711.0, 5599.0, 5674.0, 5413.0, 5694.0, 5719.0, 5439.0, 5631.0, 5472.0, 5613.0, 5284.0, 5434.0, 5424.0, 5645.0, 5559.0, 5678.0, 5636.0, 5564.0, 5520.0, 5401.0, 5461.0, 5540.0, 5437.0, 5319.0, 5370.0, 5557.0, 5352.0, 5309.0, 5666.0, 5299.0, 5534.0, 5417.0, 5543.0, 5459.0, 5522.0, 5586.0, 5535.0, 5265.0, 5603.0, 5285.0, 5257.0, 5498.0, 5395.0, 5320.0, 5259.0 (number of hits: 5)
21	5270	9	1	333	1	5558.0, 5431.0, 5350.0, 5365.0, 5534.0, 5349.0, 5346.0, 5601.0, 5611.0, 5507.0, 5274.0, 5498.0, 5463.0, 5284.0, 5683.0, 5345.0, 5420.0, 5533.0, 5360.0, 5279.0, 5460.0, 5260.0, 5307.0, 5597.0, 5379.0, 5578.0, 5421.0, 5567.0, 5563.0, 5504.0, 5385.0, 5608.0, 5382.0, 5368.0, 5457.0, 5630.0, 5632.0, 5535.0, 5301.0, 5425.0, 5395.0, 5596.0, 5530.0, 5461.0, 5383.0, 5517.0, 5319.0, 5466.0, 5572.0, 5599.0, 5297.0, 5531.0, 5506.0, 5497.0, 5470.0, 5550.0, 5333.0, 5557.0, 5278.0, 5437.0, 5444.0, 5477.0, 5593.0, 5703.0, 5378.0, 5657.0, 5377.0, 5467.0, 5272.0, 5548.0, 5404.0, 5456.0, 5720.0, 5508.0, 5635.0, 5261.0, 5471.0, 5340.0, 5675.0, 5270.0, 5366.0, 5448.0, 5686.0, 5719.0, 5656.0, 5717.0, 5321.0, 5604.0, 5315.0, 5310.0, 5441.0, 5641.0, 5621.0, 5473.0, 5352.0, 5605.0, 5509.0, 5318.0, 5418.0, 5292.0 (number of hits: 5)
22	5270	9	1	333	1	5299.0, 5685.0, 5670.0, 5442.0, 5354.0, 5450.0, 5377.0, 5307.0, 5262.0, 5508.0, 5534.0, 5392.0, 5463.0, 5301.0, 5432.0, 5302.0, 5564.0, 5401.0, 5457.0, 5312.0, 5708.0, 5391.0, 5410.0, 5553.0, 5412.0, 5397.0, 5365.0, 5286.0, 5714.0, 5606.0, 5272.0, 5575.0, 5610.0, 5622.0, 5584.0, 5370.0, 5384.0, 5345.0, 5290.0, 5700.0, 5570.0, 5342.0, 5669.0, 5551.0, 5583.0, 5660.0, 5378.0, 5680.0, 5590.0, 5663.0, 5607.0, 5510.0, 5475.0, 5623.0, 5562.0, 5643.0, 5612.0, 5497.0, 5656.0, 5659.0, 5346.0, 5698.0, 5544.0, 5433.0, 5319.0, 5461.0, 5646.0, 5493.0, 5563.0, 5640.0, 5533.0, 5572.0, 5489.0, 5291.0, 5713.0, 5568.0, 5581.0, 5311.0, 5325.0, 5414.0, 5439.0, 5637.0, 5620.0, 5448.0, 5385.0, 5626.0, 5555.0, 5413.0, 5549.0, 5671.0, 5491.0, 5527.0, 5318.0, 5718.0, 5588.0, 5445.0, 5566.0, 5251.0, 5654.0, 5429.0 (number of hits: 9)
23	5270	9	1	333	1	5532.0, 5614.0, 5311.0, 5723.0, 5465.0, 5398.0, 5360.0, 5503.0, 5556.0, 5714.0, 5641.0, 5666.0, 5308.0, 5321.0, 5665.0, 5631.0, 5658.0, 5335.0, 5286.0, 5458.0, 5654.0, 5291.0, 5277.0, 5250.0, 5510.0,

						5316.0, 5511.0, 5505.0, 5593.0, 5374.0, 5671.0, 5695.0, 5573.0, 5320.0, 5252.0, 5312.0, 5707.0, 5448.0, 5490.0, 5340.0, 5672.0, 5470.0, 5422.0, 5642.0, 5585.0, 5484.0, 5570.0, 5254.0, 5305.0, 5637.0, 5635.0, 5275.0, 5474.0, 5381.0, 5551.0, 5404.0, 5721.0, 5705.0, 5307.0, 5558.0, 5266.0, 5391.0, 5297.0, 5394.0, 5526.0, 5622.0, 5606.0, 5576.0, 5376.0, 5569.0, 5454.0, 5478.0, 5552.0, 5486.0, 5562.0, 5500.0, 5481.0, 5396.0, 5621.0, 5646.0, 5271.0, 5487.0, 5421.0, 5403.0, 5442.0, 5397.0, 5588.0, 5264.0, 5709.0, 5355.0, 5315.0, 5345.0, 5256.0, 5482.0, 5524.0, 5279.0, 5382.0, 5720.0, 5331.0, 5423.0 (number of hits: 8)
24	5270	9	1	333	1	5668.0, 5341.0, 5394.0, 5362.0, 5646.0, 5721.0, 5681.0, 5317.0, 5635.0, 5446.0, 5640.0, 5557.0, 5324.0, 5609.0, 5429.0, 5328.0, 5300.0, 5680.0, 5478.0, 5684.0, 5586.0, 5508.0, 5502.0, 5358.0, 5298.0, 5560.0, 5514.0, 5424.0, 5458.0, 5571.0, 5697.0, 5476.0, 5620.0, 5264.0, 5584.0, 5652.0, 5645.0, 5276.0, 5336.0, 5456.0, 5647.0, 5666.0, 5342.0, 5703.0, 5443.0, 5669.0, 5638.0, 5619.0, 5365.0, 5413.0, 5400.0, 5373.0, 5459.0, 5322.0, 5416.0, 5382.0, 5318.0, 5395.0, 5700.0, 5672.0, 5421.0, 5321.0, 5572.0, 5319.0, 5679.0, 5686.0, 5296.0, 5449.0, 5415.0, 5723.0, 5699.0, 5475.0, 5259.0, 5613.0, 5455.0, 5662.0, 5406.0, 5633.0, 5464.0, 5498.0, 5555.0, 5673.0, 5602.0, 5407.0, 5312.0, 5545.0, 5547.0, 5590.0, 5568.0, 5437.0, 5531.0, 5274.0, 5351.0, 5641.0, 5304.0, 5379.0, 5665.0, 5554.0, 5282.0, 5625.0 (number of hits: 5)
25	5270	9	1	333	1	5353.0, 5273.0, 5551.0, 5610.0, 5678.0, 5687.0, 5377.0, 5433.0, 5652.0, 5357.0, 5705.0, 5313.0, 5312.0, 5509.0, 5336.0, 5707.0, 5633.0, 5441.0, 5426.0, 5568.0, 5520.0, 5407.0, 5561.0, 5657.0, 5403.0, 5481.0, 5521.0, 5606.0, 5497.0, 5385.0, 5650.0, 5677.0, 5513.0, 5502.0, 5655.0, 5311.0, 5570.0, 5540.0, 5632.0, 5305.0, 5257.0, 5723.0, 5689.0, 5514.0, 5533.0, 5291.0, 5427.0, 5595.0, 5289.0, 5380.0, 5665.0, 5536.0, 5684.0, 5285.0, 5571.0, 5459.0, 5534.0, 5267.0, 5511.0, 5670.0, 5648.0, 5375.0, 5516.0, 5597.0, 5642.0, 5326.0, 5694.0, 5398.0, 5528.0, 5362.0, 5523.0, 5369.0, 5480.0, 5425.0, 5399.0, 5258.0, 5446.0, 5567.0, 5478.0, 5508.0, 5447.0, 5621.0, 5711.0, 5358.0, 5579.0, 5470.0, 5494.0, 5450.0, 5510.0, 5518.0, 5554.0, 5315.0, 5600.0, 5252.0, 5329.0, 5337.0, 5556.0, 5623.0, 5566.0, 5272.0 (number of hits: 7)
26	5270	9	1	333	1	5721.0, 5631.0, 5388.0, 5362.0, 5687.0,

						5677.0, 5315.0, 5403.0, 5617.0, 5434.0, 5457.0, 5646.0, 5709.0, 5593.0, 5705.0, 5685.0, 5575.0, 5483.0, 5407.0, 5389.0, 5692.0, 5537.0, 5538.0, 5535.0, 5481.0, 5639.0, 5588.0, 5668.0, 5369.0, 5584.0, 5515.0, 5555.0, 5585.0, 5600.0, 5285.0, 5309.0, 5303.0, 5549.0, 5502.0, 5485.0, 5534.0, 5491.0, 5501.0, 5514.0, 5368.0, 5688.0, 5276.0, 5558.0, 5490.0, 5613.0, 5308.0, 5684.0, 5360.0, 5643.0, 5511.0, 5451.0, 5351.0, 5516.0, 5271.0, 5562.0, 5563.0, 5536.0, 5455.0, 5473.0, 5720.0, 5335.0, 5443.0, 5304.0, 5554.0, 5427.0, 5406.0, 5650.0, 5383.0, 5716.0, 5291.0, 5284.0, 5500.0, 5594.0, 5396.0, 5255.0, 5565.0, 5423.0, 5345.0, 5486.0, 5464.0, 5413.0, 5607.0, 5602.0, 5454.0, 5655.0, 5658.0, 5310.0, 5357.0, 5695.0, 5370.0, 5645.0, 5414.0, 5503.0, 5724.0, 5251.0 (number of hits: 7)
27	5270	9	1	333	1	5318.0, 5557.0, 5616.0, 5308.0, 5476.0, 5296.0, 5502.0, 5711.0, 5361.0, 5554.0, 5614.0, 5392.0, 5676.0, 5414.0, 5288.0, 5564.0, 5669.0, 5679.0, 5401.0, 5566.0, 5581.0, 5721.0, 5687.0, 5657.0, 5437.0, 5526.0, 5254.0, 5264.0, 5626.0, 5303.0, 5333.0, 5615.0, 5442.0, 5378.0, 5563.0, 5267.0, 5655.0, 5251.0, 5610.0, 5281.0, 5393.0, 5709.0, 5407.0, 5520.0, 5375.0, 5444.0, 5455.0, 5590.0, 5376.0, 5503.0, 5276.0, 5314.0, 5625.0, 5567.0, 5645.0, 5415.0, 5326.0, 5639.0, 5493.0, 5654.0, 5445.0, 5332.0, 5321.0, 5693.0, 5510.0, 5258.0, 5460.0, 5260.0, 5569.0, 5643.0, 5646.0, 5417.0, 5481.0, 5591.0, 5413.0, 5252.0, 5312.0, 5277.0, 5671.0, 5642.0, 5294.0, 5719.0, 5606.0, 5716.0, 5364.0, 5499.0, 5398.0, 5342.0, 5536.0, 5374.0, 5428.0, 5287.0, 5418.0, 5662.0, 5465.0, 5464.0, 5307.0, 5542.0, 5410.0, 5560.0 (number of hits: 9)
28	5270	9	1	333	1	5364.0, 5444.0, 5678.0, 5464.0, 5430.0, 5714.0, 5684.0, 5631.0, 5721.0, 5638.0, 5702.0, 5378.0, 5552.0, 5612.0, 5349.0, 5722.0, 5541.0, 5413.0, 5681.0, 5703.0, 5463.0, 5342.0, 5437.0, 5477.0, 5318.0, 5396.0, 5597.0, 5300.0, 5674.0, 5610.0, 5352.0, 5306.0, 5397.0, 5511.0, 5691.0, 5267.0, 5491.0, 5424.0, 5658.0, 5653.0, 5453.0, 5528.0, 5262.0, 5326.0, 5578.0, 5550.0, 5429.0, 5433.0, 5519.0, 5680.0, 5663.0, 5706.0, 5549.0, 5523.0, 5517.0, 5275.0, 5609.0, 5309.0, 5305.0, 5695.0, 5544.0, 5512.0, 5287.0, 5560.0, 5284.0, 5335.0, 5328.0, 5633.0, 5404.0, 5265.0, 5293.0, 5498.0, 5656.0, 5392.0, 5399.0, 5434.0, 5468.0, 5470.0, 5458.0, 5520.0, 5422.0, 5266.0, 5360.0, 5489.0, 5639.0, 5496.0, 5643.0, 5362.0, 5339.0, 5323.0,

						5480.0, 5670.0, 5277.0, 5414.0, 5271.0, 5388.0, 5299.0, 5536.0, 5623.0, 5589.0 (number of hits: 7)
29	5270	9	1	333	1	5649.0, 5472.0, 5371.0, 5294.0, 5685.0, 5408.0, 5574.0, 5394.0, 5452.0, 5482.0, 5488.0, 5379.0, 5560.0, 5380.0, 5674.0, 5594.0, 5433.0, 5549.0, 5663.0, 5525.0, 5413.0, 5695.0, 5484.0, 5543.0, 5271.0, 5642.0, 5502.0, 5689.0, 5299.0, 5687.0, 5517.0, 5435.0, 5320.0, 5356.0, 5688.0, 5445.0, 5439.0, 5632.0, 5658.0, 5301.0, 5283.0, 5268.0, 5700.0, 5668.0, 5610.0, 5397.0, 5556.0, 5690.0, 5626.0, 5389.0, 5314.0, 5513.0, 5451.0, 5316.0, 5324.0, 5558.0, 5597.0, 5518.0, 5531.0, 5391.0, 5401.0, 5333.0, 5410.0, 5555.0, 5347.0, 5648.0, 5456.0, 5361.0, 5455.0, 5473.0, 5665.0, 5499.0, 5664.0, 5579.0, 5421.0, 5493.0, 5694.0, 5282.0, 5405.0, 5577.0, 5591.0, 5498.0, 5667.0, 5355.0, 5501.0, 5485.0, 5570.0, 5284.0, 5340.0, 5420.0, 5599.0, 5343.0, 5721.0, 5533.0, 5387.0, 5250.0, 5276.0, 5504.0, 5444.0, 5315.0 (number of hits: 4)
30	5270	9	1	333	1	5471.0, 5446.0, 5387.0, 5366.0, 5522.0, 5501.0, 5390.0, 5399.0, 5467.0, 5441.0, 5490.0, 5690.0, 5619.0, 5708.0, 5569.0, 5316.0, 5520.0, 5574.0, 5453.0, 5295.0, 5468.0, 5280.0, 5252.0, 5328.0, 5570.0, 5416.0, 5550.0, 5317.0, 5461.0, 5580.0, 5339.0, 5714.0, 5547.0, 5334.0, 5582.0, 5428.0, 5614.0, 5695.0, 5543.0, 5598.0, 5644.0, 5718.0, 5431.0, 5559.0, 5266.0, 5681.0, 5330.0, 5601.0, 5404.0, 5286.0, 5430.0, 5457.0, 5599.0, 5319.0, 5508.0, 5368.0, 5555.0, 5378.0, 5652.0, 5261.0, 5705.0, 5425.0, 5526.0, 5403.0, 5255.0, 5418.0, 5294.0, 5370.0, 5717.0, 5310.0, 5257.0, 5355.0, 5573.0, 5422.0, 5365.0, 5620.0, 5285.0, 5664.0, 5662.0, 5406.0, 5251.0, 5523.0, 5634.0, 5435.0, 5579.0, 5350.0, 5669.0, 5672.0, 5449.0, 5401.0, 5376.0, 5320.0, 5517.0, 5638.0, 5292.0, 5581.0, 5323.0, 5643.0, 5702.0, 5314.0 (number of hits: 7)

5550 MHz, 40 MHz Bandwidth:

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

Please refer to the following statistical tables:

5550MHz

Table-1 Radar Type 1 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5550	18	1	1428	1
2	5550	18	1	1428	1
3	5550	18	1	1428	1
4	5550	18	1	1428	1
5	5550	18	1	1428	1
6	5550	18	1	1428	1
7	5550	18	1	1428	1
8	5550	18	1	1428	1
9	5550	18	1	1428	1
10	5550	18	1	1428	1
11	5550	18	1	1428	1
12	5550	18	1	1428	1
13	5550	18	1	1428	1
14	5550	18	1	1428	1
15	5550	18	1	1428	1
16	5550	18	1	1428	1
17	5550	18	1	1428	1
18	5550	18	1	1428	1
19	5550	18	1	1428	1
20	5550	18	1	1428	1
21	5550	18	1	1428	1
22	5550	18	1	1428	1
23	5550	18	1	1428	1
24	5550	18	1	1428	1
25	5550	18	1	1428	1
26	5550	18	1	1428	1
27	5550	18	1	1428	1
28	5550	18	1	1428	1
29	5550	18	1	1428	1
30	5550	18	1	1428	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	5550	26	1.9	160	1
2	5550	28	1.3	228	1
3	5550	24	1.8	169	1
4	5550	28	1.7	177	1
5	5550	24	2.3	211	1
6	5550	28	4	162	1
7	5550	28	1.1	157	1
8	5550	28	1.1	178	1
9	5550	29	3	168	1
10	5550	26	2.4	214	1
11	5550	26	2.7	199	1
12	5550	27	3.7	227	1
13	5550	23	4.7	197	1
14	5550	29	3.4	179	1
15	5550	26	4.2	153	1
16	5550	28	3.6	213	1
17	5550	25	1.6	201	1
18	5550	28	3.5	183	1
19	5550	26	3.2	215	1
20	5550	24	2.5	163	1
21	5550	24	3.4	228	1
22	5550	29	1.7	159	1
23	5550	24	4.6	212	1
24	5550	29	3.2	163	1
25	5550	28	4.4	190	1
26	5550	25	4.6	181	1
27	5550	27	3.4	210	1
28	5550	27	3.8	229	1
29	5550	25	4.9	214	1
30	5550	25	2.5	209	1
Detection Percentage: 100 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5550	18	7.9	450	1
2	5550	16	9.8	490	1
3	5550	17	7.5	370	1
4	5550	18	8.9	297	1
5	5550	17	6.1	426	1
6	5550	18	9.8	251	1
7	5550	17	7.4	306	1
8	5550	16	6.3	442	1
9	5550	18	6.4	301	1
10	5550	18	7	357	1
11	5550	16	6.1	304	1
12	5550	16	6.9	279	1
13	5550	17	8.7	401	1
14	5550	18	8.8	321	1
15	5550	18	9.9	253	1
16	5550	18	9.5	311	1
17	5550	18	6.3	490	1
18	5550	16	8	222	1
19	5550	16	8.9	496	1
20	5550	16	7	425	1
21	5550	16	9.7	250	1
22	5550	17	9.8	304	1
23	5550	17	6.3	243	1
24	5550	17	6.5	481	1
25	5550	18	8.7	262	1
26	5550	16	9.2	488	1
27	5550	16	8.1	282	1
28	5550	18	9.5	493	1
29	5550	18	9.8	416	1
30	5550	18	8.5	337	1
Detection Percentage: 100 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5550	16	14.3	494	1
2	5550	15	15.8	293	1
3	5550	14	18.6	410	1
4	5550	15	13.5	479	1
5	5550	13	18.2	493	1
6	5550	14	11.6	349	1
7	5550	15	12.6	319	1
8	5550	15	19.7	223	1
9	5550	13	12.8	238	1
10	5550	13	13.7	315	1
11	5550	16	12.6	277	1
12	5550	16	15.3	305	1
13	5550	14	14.3	284	1
14	5550	15	11.2	236	1
15	5550	15	12.9	397	1
16	5550	12	19.6	229	1
17	5550	12	16.6	327	1
18	5550	12	11.6	452	1
19	5550	13	12.9	334	1
20	5550	16	11.7	282	1
21	5550	16	18.1	376	1
22	5550	16	12.9	492	1
23	5550	13	19	405	1
24	5550	12	15.3	226	1
25	5550	16	13.4	271	1
26	5550	16	14.3	439	1
27	5550	16	18.5	206	1
28	5550	13	12.7	245	1
29	5550	15	12	291	1
30	5550	14	14.9	489	1
Detection Percentage: 100 % (>60%)					

Table-5 Radar Type 5 Statistical Performance

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	18	71.2	1828	1194	0.370926	
1	1	18	79.5			1.339575	
2	3	10	86.4	1118	1630	1.959491	
3	1	17	70.5			2.545738	
4	1	9	65.3			3.391081	
5	2	6	61.6	1751		3.810011	
6	2	6	76.7	1196		4.23722	
7	1	19	87.1			5.11946	
8	1	14	82.1			6.338541	1
9	2	19	94	1647		6.76057	
10	1	16	74.7			7.616955	
11	3	7	69.8	1399	1058	8.458954	
12	1	13	52.8			8.480865	
13	3	13	76.6	1144	1989	9.459928	
14	2	17	80.8	1046		10.241548	
15	2	13	63.2	1960		11.033963	
16	2	8	52.2	1706		11.451077	

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	7	91.7	1429	1614	0.122052	
1	2	10	85.4	1656		1.102469	
2	3	14	70.3	1780	1286	1.988751	
3	3	19	77.2	1660	1516	2.467248	
4	2	13	93.8	1659		3.581417	
5	2	13	85.7	1329		3.894823	
6	1	14	76.6			4.546634	
7	2	5	65	1546		5.829274	1
8	2	10	57.8	1349		6.014969	
9	3	19	59.2	1587	1012	6.861565	
10	2	13	64.3	1523		8.174857	
11	1	12	59.9			8.367689	
12	3	10	63.8	1385	1591	9.458987	
13	1	10	81.8			9.840106	
14	2	6	92.9	1609		10.979871	
15	3	7	55.8	1724	1630	11.537782	

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	9	53.7	1413		0.312667	
1	3	13	93.8	1214	1786	1.143714	
2	2	12	97.9	1317		2.132986	
3	2	5	87.7	1224		2.402373	
4	1	13	82.9			3.099004	
5	2	7	81.3	1820		4.456258	
6	2	19	51.3	1550		5.228285	
7	1	19	76.8			5.694368	
8	3	14	54.1	1698	1544	6.664353	1
9	3	11	53.8	1039	1317	6.937114	
10	2	9	63.6	1253		7.585227	
11	2	15	99.5	1881		8.259629	
12	1	15	62.9			9.481934	
13	2	18	81.5	1713		10.382233	
14	2	5	80	1178		10.965206	
15	1	11	91.4			11.37554	

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	1	9	61.1			0.127161	
1	2	11	92	1347		1.333994	
2	1	12	83.4			1.537049	
3	2	11	70.6	1064		2.436044	
4	3	12	83.4	1579	1877	3.402256	
5	3	15	72.9	1785	1429	3.841061	
6	1	9	75.6			4.645753	
7	2	10	99.9	1952		5.189847	
8	2	19	64.9	1469		5.907823	1
9	1	12	84.6			6.662278	
10	2	8	87.5	1507		7.083345	
11	2	9	97.5	1441		8.217967	
12	2	19	58.6	1654		8.988124	
13	3	12	52.6	1479	1488	9.81319	
14	2	15	91.7	1808		10.399504	
15	2	14	61.1	1472		10.8219	
16	3	16	73.2	1637	1981	11.941935	

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	9	88.8	1174	1633	0.023737	
1	1	16	90.6			0.883037	
2	2	10	93.6	1797		1.303114	
3	2	11	99.9	1292		1.946459	
4	2	13	78.4	1876		2.879727	
5	1	14	80.4			3.476992	
6	2	17	61.9	1119		4.114705	
7	1	9	72			4.516707	
8	2	12	64.1	1792		5.20817	
9	1	17	67.6			5.813967	1
10	2	14	82.5	1190		6.684172	
11	3	5	81.9	1595	1607	7.008961	
12	3	7	94.6	1254	1281	8.088633	
13	3	6	85.2	1666	1477	8.420246	
14	2	15	94.2	1634		9.268214	
15	2	18	51	1191		9.648289	
16	1	17	95.2			10.235853	
17	2	7	75.6	1728		11.170671	
18	2	9	89.5	1586		11.594615	

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	20	53.8	1112		1.146267	
1	3	7	63	1502	1383	1.928172	
2	1	16	83.6			2.571132	
3	1	8	85.1			3.676649	
4	3	15	56.9	1103	1756	5.440906	
5	3	12	56.1	1418	1631	6.085299	1
6	3	7	62.8	1804	1363	7.450878	
7	2	9	57.1	1281		8.409105	
8	2	8	67.7	1072		10.190748	
9	1	11	51.3			11.210447	

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	55.6	1521		0.495856	
1	3	10	75.2	1755	1498	0.961614	
2	3	16	62.2	1788	1505	1.672031	
3	1	11	69			2.814069	
4	1	9	55.9			3.648484	
5	2	9	86.3	1782		3.859492	
6	2	15	96.7	1848		4.88271	
7	1	18	84.8			5.855879	1
8	2	14	83.1	1125		6.288047	
9	3	6	82.8	1252	1180	7.179973	
10	3	14	98.2	1766	1813	8.043456	
11	2	18	99	1590		8.536527	
12	3	8	52.1	1338	1072	9.046496	
13	1	13	71.4			9.780606	
14	2	11	62.9	1446		11.116038	
15	2	5	75.5	1770		11.597926	

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	10	97.4			0.635578	
1	3	9	94.7	1056	1462	1.694233	
2	1	12	84			2.967417	
3	3	6	94	1723	1245	4.277402	
4	3	7	82.5	1941	1397	5.435021	1
5	2	7	63.1	1229		6.152476	
6	2	8	70.2	1449		8.205115	
7	3	8	61.1	1582	1705	9.581645	
8	2	16	69.4	1434		9.643959	
9	1	10	94.1			11.927501	

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	19	84	1432		0.100886	
1	2	9	52.7	1025		2.04	
2	3	11	97	1997	1003	2.766649	
3	2	17	98.5	1894		4.18881	
4	2	15	83.8	1049		5.914486	1
5	2	13	95.9	1155		7.25515	
6	2	15	52	1442		9.270148	
7	2	5	52	1846		10.583532	
8	1	14	63			11.225974	

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	9	74			0.85282	
1	1	14	81			1.521571	
2	1	10	80.2			3.26171	
3	1	20	77.1			4.328383	
4	2	19	75.2	1065		5.981334	1
5	2	17	94.4	1188		6.116742	
6	2	12	65.7	1619		8.165595	
7	2	9	68.1	1504		8.949708	
8	2	19	98.8	1126		9.93363	
9	2	16	69	1823		11.920436	

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	5	63.4			0.471034	
1	1	10	67.9			0.936386	
2	2	6	80.1	1573		1.692551	
3	3	17	90.6	1670	1066	2.294034	
4	2	7	50.6	1348		2.778649	
5	1	12	73.6			3.764537	
6	2	14	65.4	1665		4.411769	
7	1	7	85.3			4.434347	
8	1	10	89.1			5.613215	
9	1	7	81.4			5.872037	1
10	2	10	93.4	1127		6.40163	
11	2	13	74	1786		7.341987	
12	1	12	70.8			8.077617	
13	3	11	51	1609	1025	8.313277	
14	3	8	94.5	1300	1599	9.133135	
15	3	15	51.5	1790	1786	9.514401	
16	2	10	69.7	1830		10.127929	
17	1	11	55.7			10.806858	
18	2	10	80.4	1781		11.856344	

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	13	50.7	1096		0.429506	
1	1	13	65.9			1.04071	
2	1	13	58.1			1.854583	
3	2	13	84.9	1666		2.335599	
4	2	10	66.1	1026		3.048106	
5	2	15	94.7	1750		3.234501	
6	1	7	81.9			4.189731	
7	3	19	65.8	1752	1881	4.872834	
8	3	15	96	1854	1864	5.380017	
9	2	19	77.1	1720		5.773429	1
10	2	6	83.8	1465		6.733218	
11	1	11	83.1			7.22125	
12	2	10	78.5	1919		7.781066	
13	3	19	76.9	1813	1569	8.799146	
14	2	15	87.1	1704		9.255634	
15	2	16	93.7	1254		9.800901	
16	2	8	58.5	1674		10.632841	
17	2	10	71.8	1731		11.030325	
18	1	12	70.9			11.404313	

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	3	7	63.6	1099	1636	0.172291	
1	2	12	84.9	1135		0.709192	
2	1	17	90.7			1.782335	
3	1	8	98.9			2.264726	
4	2	5	82.2	1975		2.762142	
5	1	5	73.3			3.448953	
6	3	7	77.6	1658	1433	3.990859	
7	1	19	83.5			4.774196	
8	2	17	73.7	1947		5.454759	
9	2	5	68	1220		6.224644	1
10	2	13	93.2	1394		6.462599	
11	2	13	51.5	1061		6.992969	
12	2	7	63	1866		8.146067	
13	2	16	52.1	1766		8.280134	
14	2	17	52.7	1668		9.438172	
15	1	20	58.9			9.834994	
16	3	10	66.4	1377	1291	10.142955	
17	3	20	57.2	1522	1077	10.908509	
18	2	17	66.8	1530		11.969823	

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	6	64.7	1568		0.53704	
1	2	6	91.3	1627		0.819838	
2	2	12	94.9	1448		1.844581	
3	2	14	86.7	1984		2.045592	
4	3	15	61.2	1218	1175	2.870544	
5	2	17	98.5	1604		3.185888	
6	2	17	65.2	1851		4.375953	
7	3	5	63.9	1864	1349	4.553989	
8	1	5	78.2			5.502201	
9	2	9	76.2	1522		5.942502	1
10	3	18	56.9	1436	1446	6.672006	
11	2	18	66.1	1341		7.30305	
12	2	17	75.5	1361		8.002071	
13	2	8	94.6	1519		8.690094	
14	2	18	56.3	1343		9.270619	
15	2	7	98.1	1395		9.606664	
16	3	19	63.6	1435	1812	10.152346	
17	2	9	77.4	1086		11.1412	
18	2	19	65.8	1368		11.625754	

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	11	60.6	1573		0.464558	
1	2	6	85	1018		0.934423	
2	3	16	88.7	1795	1817	1.458771	
3	3	13	96.9	1280	1683	2.081394	
4	1	12	97.2			2.892031	
5	2	12	87.4	1515		3.772576	
6	1	11	81.3			4.202871	
7	1	5	59.3			4.742752	
8	3	17	53.2	1909	1437	5.248733	
9	3	18	92.4	1706	1063	5.790948	1
10	1	11	65			6.463682	
11	2	9	62.2	1076		7.152031	
12	1	8	62.8			7.636353	
13	3	9	53.5	1408	1553	8.584284	
14	3	7	62.9	1105	1329	8.971782	
15	2	12	59.8	1991		10.057773	
16	3	19	89.5	1432	1339	10.211019	
17	3	6	76.5	1178	1750	11.129042	
18	2	17	64.4	1952		11.525498	

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	6	85.5	1968		0.097541	
1	3	8	88.5	1058	1161	1.128137	
2	2	6	67.9	1675		1.519448	
3	2	11	61.2	1693		2.037909	
4	3	17	53.9	1571	1821	2.695069	
5	2	19	53.4	1366		3.640827	
6	1	8	87.4			4.275899	
7	3	20	89.8	1307	1562	4.884404	
8	1	14	59.6			5.450338	1
9	3	6	99.6	1911	1032	6.537968	
10	3	10	79.4	1404	1331	7.032888	
11	3	15	74.2	1629	1916	7.402991	
12	3	19	66.7	1987	1333	8.350794	
13	1	14	95.6			8.67948	
14	2	9	85.8	1672		9.84739	
15	2	10	70.4	1405		10.188829	
16	3	7	66.5	1124	1578	11.238901	
17	3	7	67.6	1666	1739	11.800701	

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	9	75.1			0.385212	
1	2	5	77.5	1151		1.618961	
2	3	8	71.3	1364	1548	2.680953	
3	1	19	78.8			3.513223	
4	1	8	74.8			3.787605	
5	2	19	62.2	1028		4.868891	
6	2	8	52.6	1195		5.859199	1
7	3	19	51.6	1325	1225	7.199525	
8	2	9	80.5	1129		7.66729	
9	1	16	87			9.191518	
10	2	17	65.6	1197		9.832444	
11	2	15	54.2	1601		10.293331	
12	3	19	84.6	1614	1760	11.901389	

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	9	82.1	1717	1480	0.612406	
1	2	8	93	1800		1.023286	
2	1	15	68.9			1.779047	
3	1	18	63.9			2.476796	
4	3	8	52.2	1240	1938	3.723055	
5	2	10	74.5	1608		4.156191	
6	1	13	65.6			4.970739	
7	2	11	51.6	1340		5.654741	1
8	2	15	53.7	1318		6.941853	
9	2	12	56.4	1216		7.332312	
10	2	8	75.4	1377		8.459048	
11	3	15	97.8	1461	1352	8.94493	
12	3	7	97.5	1986	1806	10.118181	
13	2	14	98.4	1431		11.036647	
14	2	16	75.9	1727		11.769517	

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	9	64.2	1672		0.145336	
1	2	16	83.5	1986		2.450991	
2	2	12	71.9	1348		3.909881	
3	2	10	92.6	1792		4.92965	
4	3	19	69.2	1605	1416	6.399745	1
5	1	10	57			6.760296	
6	2	9	90.3	1209		8.325815	
7	1	11	59.8			9.730654	
8	3	13	94.8	1169	1855	10.890556	

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	12	90.8	1519		0.458365	
1	1	10	85.7			0.685816	
2	1	14	56.5			1.814744	
3	2	9	87.2	1140		2.024196	
4	1	18	79.7			2.631043	
5	2	14	70.5	1150		3.60659	
6	2	12	60	1070		3.964945	
7	1	8	95.9			4.839946	
8	2	11	73.9	1155		5.321929	
9	2	9	87	1594		5.814125	1
10	3	17	76.5	1167	1355	6.319986	
11	3	17	59.2	1784	1396	7.305925	
12	3	8	93.7	1255	1548	7.983829	
13	3	19	56	1114	1325	8.300961	
14	3	18	61	1551	1824	9.416149	
15	2	16	51.1	1944		9.666469	
16	3	16	75	1563	1438	10.229304	
17	3	6	83.6	1834	1118	11.009299	
18	2	13	50.1	1739		11.703839	

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	19	50.3	1015		0.172275	
1	1	12	72.7			2.144442	
2	1	20	71.8			3.212816	
3	1	18	81.1			5.201611	
4	2	9	77.9	1778		6.288065	1
5	2	15	99.6	1429		7.098331	
6	2	14	79.9	1718		9.062935	
7	1	14	84.7			9.676036	
8	2	6	89.3	1539		11.474559	

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	88.1	1490		0.215472	
1	3	18	92.1	1166	1438	1.541482	
2	3	6	88.1	1447	1738	3.182116	
3	2	18	98.5	1523		4.665407	
4	3	17	53.4	1181	1363	5.797805	1
5	1	5	99.7			7.069138	
6	2	8	64.4	1049		7.588338	
7	2	5	66.1	1384		9.54944	
8	2	7	54.6	1979		10.562363	
9	1	16	89.9			11.985224	

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	1	17	72.2			0.971172	
1	1	15	79.6			1.952227	
2	3	10	55.7	1856	1519	2.56657	
3	1	12	52.2			3.317424	
4	1	19	54.8			4.798324	
5	2	7	56	1467		6.007027	1
6	2	19	92.9	1179		6.617757	
7	2	13	51	1239		8.561549	
8	2	14	69.7	1736		9.361861	
9	2	12	66.3	1084		10.722899	
10	1	17	97.2			11.489901	

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	8	54.9	1078	1812	0.444005	
1	2	8	85.9	1303		0.686475	
2	2	13	91.7	1629		1.522533	
3	2	6	70.8	1645		2.118646	
4	2	7	89.6	1567		2.809846	
5	2	9	51.9	1347		3.401523	
6	2	7	96.8	1616		4.074835	
7	1	7	52.6			4.956087	
8	2	18	64.2	1991		5.433988	
9	3	18	71.9	1827	1009	5.9612	1
10	3	6	78.5	1596	1909	6.624164	
11	2	19	65.2	1505		7.372934	
12	2	13	59.2	1197		7.663804	
13	2	12	81.3	1388		8.697554	
14	2	5	63.5	1096		8.905181	
15	3	11	68.8	1627	1991	9.891378	
16	1	8	79.7			10.702796	
17	3	8	90.9	1076	1543	10.749568	
18	1	13	95.8			11.740045	

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	18	98.9			0.1881	
1	2	20	95.8	1125		1.762007	
2	2	13	67.6	1217		2.637184	
3	3	14	77.3	1357	1627	2.785542	
4	1	18	86.6			3.787917	
5	2	19	69.7	1360		5.11249	
6	2	9	94.2	1346		5.647248	1
7	3	16	55.4	1942	1416	7.224856	
8	2	11	57.8	1882		7.615007	
9	2	16	71.1	1616		9.006587	
10	2	12	91.5	1315		9.943912	
11	1	7	58.5			10.257414	
12	3	12	79.6	1041	1152	11.202044	

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	12	68.2	1185		0.749594	
1	2	19	62.9	1444		1.093009	
2	2	11	75.7	1810		2.861065	
3	2	16	61.9	1670		3.366419	
4	3	6	71.7	1751	1772	4.208753	
5	2	17	90.9	1064		5.451166	
6	3	18	53	1041	1315	6.241609	1
7	2	19	58.4	1464		7.820524	
8	2	8	51.3	1538		8.006064	
9	2	8	88.6	1923		9.042951	
10	3	11	57.7	1346	1191	10.082447	
11	1	14	52.8			11.712827	

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	16	86.7	1604		0.389122	
1	2	20	75.2	1834		0.726883	
2	2	16	95.7	1714		2.091533	
3	2	18	87.4	1196		2.378994	
4	2	10	91	1395		3.34173	
5	2	15	51.4	1468		3.575649	
6	1	6	68.1			4.563944	
7	3	15	67.8	1065	1410	5.061771	
8	3	12	59.6	1994	1608	6.065067	1
9	1	11	84.5			6.695468	
10	2	14	79.2	1253		7.612347	
11	2	11	74	1678		8.315883	
12	2	18	75	1024		8.956531	
13	3	8	66	1972	1264	9.511544	
14	2	12	97.7	1052		10.072309	
15	2	19	71.9	1032		11.220345	
16	3	13	87.5	1117	1898	11.763327	

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	8	99	1634		0.442865	
1	1	13	76.4			0.985494	
2	1	20	68.4			1.414305	
3	2	17	93	1846		2.06339	
4	1	18	76.7			2.672055	
5	3	14	66.2	1088	1386	3.535558	
6	2	18	76.5	1029		3.882559	
7	1	19	58.4			4.683715	
8	3	13	56.8	1267	1856	5.150969	
9	2	17	94	1445		6.188965	1
10	2	9	94.5	1440		6.694094	
11	1	17	55.4			7.46493	
12	2	12	80.8	1778		7.766988	
13	2	7	68.8	1136		8.738249	
14	1	17	69.7			8.913931	
15	3	6	50.7	1197	1974	10.063732	
16	2	19	98.3	1224		10.28974	
17	1	6	83.1			11.164099	
18	1	11	97.6			11.547308	

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	6	92.7			0.666579	
1	2	8	82	1961		1.131551	
2	1	11	58.1			1.905182	
3	2	12	63.2	1251		3.349996	
4	3	12	85.5	1990	1860	3.945487	
5	2	16	92.8	1637		4.556275	
6	3	13	62.3	1319	1817	5.943605	
7	3	16	61.9	1169	1629	6.525869	1
8	1	6	85.6			7.351065	
9	2	15	91.7	1063		8.242842	
10	1	17	69.7			8.963579	
11	3	9	95.6	1996	1931	10.173169	
12	1	18	72.4			10.869073	
13	1	16	50.8			11.992886	

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	53.3	1665		1.194266	
1	2	19	80.6	1060		2.521704	
2	3	15	82.8	1771	1576	2.747544	
3	3	12	57	1534	1026	5.194558	
4	1	16	81.1			5.641445	1
5	3	6	63.4	1170	1306	7.069104	
6	3	12	88.3	1170	1491	9.123059	
7	2	6	95.4	1344		10.101571	
8	3	12	57.4	1547	1188	10.833026	

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	5550	9	1	333	1	5439.0, 5379.0, 5391.0, 5361.0, 5424.0, 5277.0, 5590.0, 5558.0, 5599.0, 5616.0, 5477.0, 5721.0, 5694.0, 5487.0, 5547.0, 5333.0, 5272.0, 5473.0, 5637.0, 5269.0, 5478.0, 5520.0, 5357.0, 5450.0, 5517.0, 5548.0, 5515.0, 5559.0, 5526.0, 5366.0, 5681.0, 5412.0, 5384.0, 5399.0, 5486.0, 5475.0, 5431.0, 5446.0, 5353.0, 5253.0, 5454.0, 5612.0, 5301.0, 5592.0, 5584.0, 5692.0, 5718.0, 5489.0, 5513.0, 5368.0, 5607.0, 5560.0, 5660.0, 5570.0, 5661.0, 5701.0, 5696.0, 5640.0, 5393.0, 5707.0, 5407.0, 5593.0, 5494.0, 5400.0, 5265.0, 5460.0, 5323.0, 5341.0, 5656.0, 5666.0, 5610.0, 5535.0, 5625.0, 5496.0, 5381.0, 5624.0, 5523.0, 5283.0, 5687.0, 5689.0, 5345.0, 5396.0, 5415.0, 5449.0, 5441.0, 5586.0, 5502.0, 5308.0, 5645.0, 5336.0, 5533.0, 5410.0, 5597.0, 5716.0, 5506.0, 5420.0, 5263.0, 5467.0, 5594.0, 5669.0 (number of hits: 2)
2	5550	9	1	333	1	5623.0, 5431.0, 5346.0, 5650.0, 5384.0, 5468.0, 5476.0, 5339.0, 5688.0, 5277.0, 5510.0, 5645.0, 5321.0, 5323.0, 5507.0, 5388.0, 5492.0, 5322.0, 5412.0, 5282.0, 5696.0, 5584.0, 5501.0, 5511.0, 5254.0, 5455.0, 5654.0, 5261.0, 5311.0, 5721.0, 5620.0, 5582.0, 5408.0, 5656.0, 5465.0, 5252.0, 5577.0, 5595.0, 5446.0, 5328.0, 5658.0, 5421.0, 5708.0, 5628.0, 5586.0, 5425.0, 5600.0, 5434.0, 5325.0, 5266.0, 5413.0, 5720.0, 5378.0, 5572.0, 5525.0, 5414.0, 5599.0, 5485.0, 5297.0, 5531.0, 5619.0, 5368.0, 5382.0, 5505.0, 5403.0, 5380.0, 5375.0, 5665.0, 5386.0, 5291.0, 5400.0, 5663.0, 5682.0, 5636.0, 5537.0, 5546.0, 5466.0, 5336.0, 5490.0, 5713.0, 5303.0, 5385.0, 5387.0, 5616.0, 5670.0, 5370.0, 5491.0, 5637.0, 5472.0, 5463.0, 5352.0, 5351.0, 5314.0, 5698.0, 5264.0, 5581.0, 5692.0, 5262.0, 5373.0, 5391.0 (number of hits: 5)
3	5550	9	1	333	1	5417.0, 5663.0, 5616.0, 5503.0, 5683.0, 5272.0, 5575.0, 5656.0, 5525.0, 5255.0, 5400.0, 5456.0, 5391.0, 5382.0, 5527.0, 5690.0, 5625.0, 5313.0, 5378.0, 5281.0, 5488.0, 5557.0, 5631.0, 5529.0, 5539.0, 5269.0, 5415.0, 5609.0, 5668.0, 5443.0, 5331.0, 5291.0, 5270.0, 5515.0, 5410.0, 5465.0, 5593.0, 5337.0, 5601.0, 5552.0, 5574.0, 5697.0, 5392.0, 5388.0, 5715.0, 5682.0, 5645.0, 5343.0, 5719.0, 5722.0, 5487.0, 5301.0, 5608.0, 5273.0, 5251.0, 5533.0, 5695.0, 5403.0, 5278.0, 5426.0,

						5636.0, 5352.0, 5597.0, 5390.0, 5425.0, 5596.0, 5655.0, 5509.0, 5720.0, 5594.0, 5571.0, 5522.0, 5396.0, 5295.0, 5370.0, 5277.0, 5476.0, 5520.0, 5692.0, 5387.0, 5570.0, 5710.0, 5357.0, 5620.0, 5501.0, 5562.0, 5576.0, 5670.0, 5626.0, 5330.0, 5348.0, 5716.0, 5587.0, 5294.0, 5341.0, 5592.0, 5377.0, 5335.0, 5289.0, 5408.0 (number of hits: 6)
4	5550	9	1	333	1	5293.0, 5381.0, 5586.0, 5427.0, 5539.0, 5670.0, 5274.0, 5551.0, 5485.0, 5675.0, 5494.0, 5456.0, 5587.0, 5479.0, 5414.0, 5337.0, 5548.0, 5439.0, 5400.0, 5618.0, 5530.0, 5470.0, 5253.0, 5275.0, 5363.0, 5652.0, 5683.0, 5273.0, 5368.0, 5719.0, 5371.0, 5487.0, 5420.0, 5409.0, 5499.0, 5421.0, 5413.0, 5338.0, 5563.0, 5536.0, 5422.0, 5289.0, 5277.0, 5450.0, 5318.0, 5364.0, 5308.0, 5664.0, 5697.0, 5629.0, 5459.0, 5323.0, 5430.0, 5558.0, 5569.0, 5669.0, 5537.0, 5602.0, 5630.0, 5613.0, 5607.0, 5506.0, 5269.0, 5267.0, 5693.0, 5301.0, 5287.0, 5660.0, 5543.0, 5651.0, 5532.0, 5405.0, 5464.0, 5391.0, 5574.0, 5636.0, 5674.0, 5406.0, 5517.0, 5523.0, 5591.0, 5484.0, 5593.0, 5656.0, 5353.0, 5488.0, 5446.0, 5705.0, 5580.0, 5325.0, 5604.0, 5525.0, 5497.0, 5549.0, 5382.0, 5545.0, 5718.0, 5303.0, 5331.0, 5625.0 (number of hits: 6)
5	5550	9	1	333	1	5715.0, 5611.0, 5521.0, 5479.0, 5308.0, 5710.0, 5347.0, 5482.0, 5667.0, 5721.0, 5343.0, 5617.0, 5336.0, 5464.0, 5357.0, 5649.0, 5288.0, 5499.0, 5689.0, 5455.0, 5304.0, 5272.0, 5525.0, 5337.0, 5385.0, 5665.0, 5724.0, 5669.0, 5485.0, 5465.0, 5417.0, 5637.0, 5319.0, 5473.0, 5274.0, 5415.0, 5375.0, 5458.0, 5635.0, 5688.0, 5657.0, 5588.0, 5720.0, 5374.0, 5264.0, 5600.0, 5639.0, 5297.0, 5318.0, 5505.0, 5568.0, 5656.0, 5383.0, 5526.0, 5602.0, 5466.0, 5481.0, 5664.0, 5496.0, 5692.0, 5638.0, 5310.0, 5338.0, 5641.0, 5335.0, 5561.0, 5475.0, 5610.0, 5265.0, 5491.0, 5418.0, 5389.0, 5613.0, 5528.0, 5391.0, 5320.0, 5509.0, 5331.0, 5346.0, 5442.0, 5386.0, 5700.0, 5550.0, 5312.0, 5515.0, 5416.0, 5593.0, 5612.0, 5589.0, 5701.0, 5444.0, 5251.0, 5271.0, 5293.0, 5286.0, 5579.0, 5379.0, 5250.0, 5309.0, 5273.0 (number of hits: 9)
6	5550	9	1	333	1	5419.0, 5674.0, 5416.0, 5271.0, 5470.0, 5508.0, 5720.0, 5290.0, 5347.0, 5300.0, 5332.0, 5465.0, 5669.0, 5452.0, 5483.0, 5427.0, 5500.0, 5650.0, 5363.0, 5267.0, 5499.0, 5342.0, 5484.0, 5417.0, 5310.0, 5590.0, 5589.0, 5387.0, 5602.0, 5539.0, 5607.0, 5421.0, 5649.0, 5544.0, 5553.0, 5574.0, 5640.0, 5291.0, 5478.0, 5530.0,

						5717.0, 5621.0, 5330.0, 5292.0, 5502.0, 5359.0, 5309.0, 5677.0, 5343.0, 5445.0, 5571.0, 5457.0, 5622.0, 5274.0, 5341.0, 5378.0, 5255.0, 5594.0, 5406.0, 5496.0, 5463.0, 5537.0, 5565.0, 5689.0, 5603.0, 5458.0, 5690.0, 5357.0, 5535.0, 5679.0, 5611.0, 5299.0, 5399.0, 5448.0, 5394.0, 5591.0, 5678.0, 5429.0, 5471.0, 5488.0, 5393.0, 5699.0, 5637.0, 5554.0, 5320.0, 5372.0, 5288.0, 5604.0, 5385.0, 5504.0, 5315.0, 5334.0, 5430.0, 5560.0, 5340.0, 5526.0, 5456.0, 5263.0, 5264.0, 5261.0 (number of hits: 8)
7	5550	9	1	333	1	5472.0, 5664.0, 5656.0, 5572.0, 5452.0, 5523.0, 5279.0, 5659.0, 5455.0, 5289.0, 5456.0, 5437.0, 5334.0, 5444.0, 5250.0, 5407.0, 5684.0, 5597.0, 5575.0, 5515.0, 5325.0, 5507.0, 5493.0, 5434.0, 5519.0, 5457.0, 5579.0, 5272.0, 5628.0, 5642.0, 5261.0, 5561.0, 5705.0, 5722.0, 5335.0, 5623.0, 5302.0, 5622.0, 5278.0, 5484.0, 5370.0, 5351.0, 5543.0, 5645.0, 5296.0, 5396.0, 5252.0, 5550.0, 5634.0, 5641.0, 5405.0, 5594.0, 5582.0, 5596.0, 5360.0, 5583.0, 5512.0, 5528.0, 5258.0, 5281.0, 5587.0, 5291.0, 5421.0, 5392.0, 5411.0, 5367.0, 5459.0, 5611.0, 5479.0, 5715.0, 5536.0, 5369.0, 5350.0, 5284.0, 5402.0, 5646.0, 5275.0, 5298.0, 5259.0, 5462.0, 5713.0, 5371.0, 5652.0, 5365.0, 5384.0, 5458.0, 5516.0, 5577.0, 5477.0, 5304.0, 5313.0, 5466.0, 5276.0, 5530.0, 5414.0, 5593.0, 5374.0, 5470.0, 5476.0, 5285.0 (number of hits: 8)
8	5550	9	1	333	1	5306.0, 5407.0, 5716.0, 5370.0, 5317.0, 5344.0, 5478.0, 5506.0, 5325.0, 5472.0, 5721.0, 5550.0, 5383.0, 5620.0, 5256.0, 5468.0, 5454.0, 5267.0, 5707.0, 5363.0, 5684.0, 5368.0, 5326.0, 5445.0, 5403.0, 5529.0, 5635.0, 5715.0, 5594.0, 5714.0, 5358.0, 5385.0, 5517.0, 5713.0, 5443.0, 5631.0, 5395.0, 5351.0, 5705.0, 5311.0, 5473.0, 5357.0, 5649.0, 5657.0, 5459.0, 5576.0, 5439.0, 5335.0, 5365.0, 5347.0, 5456.0, 5386.0, 5519.0, 5708.0, 5319.0, 5671.0, 5330.0, 5624.0, 5689.0, 5295.0, 5397.0, 5378.0, 5461.0, 5581.0, 5554.0, 5288.0, 5463.0, 5568.0, 5651.0, 5532.0, 5458.0, 5388.0, 5495.0, 5271.0, 5376.0, 5659.0, 5509.0, 5350.0, 5667.0, 5722.0, 5436.0, 5343.0, 5345.0, 5419.0, 5622.0, 5274.0, 5356.0, 5647.0, 5272.0, 5304.0, 5424.0, 5447.0, 5331.0, 5479.0, 5284.0, 5467.0, 5498.0, 5494.0, 5677.0, 5599.0 (number of hits: 5)
9	5550	9	1	333	1	5557.0, 5295.0, 5538.0, 5430.0, 5592.0, 5338.0, 5673.0, 5596.0, 5689.0, 5353.0, 5714.0, 5568.0, 5439.0, 5422.0, 5411.0, 5717.0, 5359.0, 5253.0, 5454.0, 5639.0,

						5256.0, 5623.0, 5431.0, 5465.0, 5310.0, 5279.0, 5537.0, 5287.0, 5723.0, 5278.0, 5691.0, 5546.0, 5282.0, 5407.0, 5260.0, 5708.0, 5526.0, 5540.0, 5549.0, 5558.0, 5292.0, 5680.0, 5382.0, 5664.0, 5543.0, 5498.0, 5434.0, 5629.0, 5528.0, 5457.0, 5669.0, 5385.0, 5460.0, 5658.0, 5307.0, 5275.0, 5525.0, 5678.0, 5620.0, 5375.0, 5500.0, 5685.0, 5718.0, 5533.0, 5520.0, 5665.0, 5463.0, 5420.0, 5700.0, 5542.0, 5672.0, 5452.0, 5536.0, 5655.0, 5630.0, 5706.0, 5591.0, 5693.0, 5444.0, 5510.0, 5550.0, 5332.0, 5544.0, 5476.0, 5534.0, 5314.0, 5516.0, 5720.0, 5625.0, 5479.0, 5628.0, 5322.0, 5497.0, 5291.0, 5505.0, 5677.0, 5371.0, 5682.0, 5467.0, 5306.0 (number of hits: 8)
10	5550	9	1	333	1	5516.0, 5352.0, 5573.0, 5538.0, 5309.0, 5539.0, 5476.0, 5450.0, 5625.0, 5267.0, 5678.0, 5722.0, 5320.0, 5547.0, 5614.0, 5648.0, 5533.0, 5478.0, 5299.0, 5336.0, 5277.0, 5673.0, 5344.0, 5263.0, 5561.0, 5522.0, 5712.0, 5454.0, 5341.0, 5256.0, 5260.0, 5659.0, 5332.0, 5322.0, 5508.0, 5525.0, 5363.0, 5303.0, 5413.0, 5293.0, 5448.0, 5567.0, 5438.0, 5649.0, 5582.0, 5704.0, 5716.0, 5321.0, 5397.0, 5430.0, 5536.0, 5465.0, 5660.0, 5544.0, 5691.0, 5552.0, 5681.0, 5638.0, 5349.0, 5415.0, 5618.0, 5399.0, 5666.0, 5401.0, 5636.0, 5279.0, 5532.0, 5361.0, 5460.0, 5701.0, 5608.0, 5372.0, 5529.0, 5458.0, 5499.0, 5599.0, 5631.0, 5680.0, 5530.0, 5658.0, 5282.0, 5442.0, 5549.0, 5556.0, 5627.0, 5511.0, 5692.0, 5537.0, 5490.0, 5329.0, 5519.0, 5251.0, 5301.0, 5694.0, 5663.0, 5642.0, 5602.0, 5254.0, 5374.0, 5351.0 (number of hits: 5)
11	5550	9	1	333	1	5275.0, 5539.0, 5633.0, 5696.0, 5431.0, 5429.0, 5273.0, 5254.0, 5522.0, 5448.0, 5312.0, 5646.0, 5331.0, 5317.0, 5467.0, 5566.0, 5656.0, 5599.0, 5516.0, 5514.0, 5486.0, 5643.0, 5560.0, 5569.0, 5611.0, 5695.0, 5702.0, 5476.0, 5393.0, 5637.0, 5663.0, 5305.0, 5654.0, 5489.0, 5477.0, 5385.0, 5450.0, 5664.0, 5346.0, 5295.0, 5524.0, 5681.0, 5500.0, 5684.0, 5353.0, 5325.0, 5358.0, 5378.0, 5671.0, 5512.0, 5552.0, 5389.0, 5369.0, 5403.0, 5547.0, 5396.0, 5456.0, 5510.0, 5609.0, 5435.0, 5541.0, 5284.0, 5636.0, 5567.0, 5289.0, 5598.0, 5603.0, 5299.0, 5354.0, 5474.0, 5678.0, 5281.0, 5278.0, 5675.0, 5410.0, 5551.0, 5650.0, 5270.0, 5672.0, 5608.0, 5294.0, 5478.0, 5349.0, 5348.0, 5571.0, 5487.0, 5368.0, 5326.0, 5554.0, 5303.0, 5617.0, 5400.0, 5364.0, 5257.0, 5576.0, 5401.0, 5707.0, 5618.0, 5538.0, 5425.0 (number of hits: 7)

12	5550	9	1	333	1	5697.0, 5361.0, 5489.0, 5432.0, 5451.0, 5364.0, 5385.0, 5403.0, 5470.0, 5555.0, 5531.0, 5640.0, 5392.0, 5567.0, 5389.0, 5473.0, 5695.0, 5295.0, 5305.0, 5544.0, 5410.0, 5503.0, 5692.0, 5312.0, 5661.0, 5604.0, 5438.0, 5358.0, 5294.0, 5406.0, 5696.0, 5380.0, 5646.0, 5572.0, 5276.0, 5441.0, 5711.0, 5546.0, 5688.0, 5367.0, 5342.0, 5706.0, 5350.0, 5390.0, 5288.0, 5548.0, 5283.0, 5381.0, 5539.0, 5570.0, 5669.0, 5285.0, 5484.0, 5510.0, 5619.0, 5347.0, 5373.0, 5273.0, 5424.0, 5263.0, 5552.0, 5709.0, 5420.0, 5379.0, 5337.0, 5535.0, 5618.0, 5275.0, 5515.0, 5658.0, 5422.0, 5578.0, 5520.0, 5556.0, 5512.0, 5309.0, 5316.0, 5613.0, 5605.0, 5281.0, 5374.0, 5356.0, 5408.0, 5508.0, 5551.0, 5505.0, 5333.0, 5648.0, 5693.0, 5481.0, 5326.0, 5682.0, 5722.0, 5269.0, 5334.0, 5603.0, 5542.0, 5689.0, 5311.0, 5483.0 (number of hits: 8)
13	5550	9	1	333	1	5337.0, 5521.0, 5358.0, 5601.0, 5356.0, 5393.0, 5268.0, 5615.0, 5702.0, 5269.0, 5420.0, 5561.0, 5425.0, 5685.0, 5378.0, 5308.0, 5710.0, 5581.0, 5310.0, 5559.0, 5380.0, 5665.0, 5630.0, 5566.0, 5433.0, 5398.0, 5688.0, 5439.0, 5514.0, 5419.0, 5366.0, 5300.0, 5314.0, 5302.0, 5516.0, 5340.0, 5368.0, 5374.0, 5493.0, 5317.0, 5709.0, 5250.0, 5657.0, 5505.0, 5283.0, 5258.0, 5596.0, 5445.0, 5414.0, 5677.0, 5628.0, 5351.0, 5476.0, 5273.0, 5383.0, 5385.0, 5594.0, 5489.0, 5607.0, 5715.0, 5365.0, 5588.0, 5545.0, 5678.0, 5651.0, 5320.0, 5329.0, 5586.0, 5285.0, 5495.0, 5486.0, 5531.0, 5538.0, 5518.0, 5338.0, 5539.0, 5353.0, 5276.0, 5494.0, 5576.0, 5456.0, 5582.0, 5568.0, 5457.0, 5410.0, 5326.0, 5471.0, 5617.0, 5472.0, 5661.0, 5303.0, 5396.0, 5530.0, 5498.0, 5360.0, 5649.0, 5718.0, 5260.0, 5690.0, 5305.0 (number of hits: 8)
14	5550	9	1	333	1	5271.0, 5444.0, 5383.0, 5687.0, 5463.0, 5458.0, 5432.0, 5507.0, 5338.0, 5596.0, 5413.0, 5326.0, 5677.0, 5698.0, 5482.0, 5380.0, 5712.0, 5289.0, 5339.0, 5404.0, 5342.0, 5559.0, 5443.0, 5415.0, 5651.0, 5620.0, 5263.0, 5700.0, 5324.0, 5600.0, 5284.0, 5603.0, 5694.0, 5470.0, 5357.0, 5571.0, 5278.0, 5618.0, 5529.0, 5277.0, 5680.0, 5356.0, 5528.0, 5495.0, 5457.0, 5265.0, 5629.0, 5590.0, 5574.0, 5695.0, 5431.0, 5500.0, 5610.0, 5436.0, 5498.0, 5589.0, 5371.0, 5652.0, 5626.0, 5601.0, 5536.0, 5488.0, 5615.0, 5398.0, 5503.0, 5392.0, 5649.0, 5640.0, 5646.0, 5526.0, 5479.0, 5592.0, 5286.0, 5585.0, 5486.0, 5477.0, 5539.0, 5417.0, 5540.0, 5349.0, 5379.0, 5382.0, 5535.0, 5562.0, 5253.0,

						5255.0, 5598.0, 5358.0, 5256.0, 5685.0, 5621.0, 5593.0, 5421.0, 5549.0, 5639.0, 5267.0, 5679.0, 5276.0, 5475.0, 5644.0 (number of hits: 2)
15	5550	9	1	333	1	5533.0, 5618.0, 5693.0, 5259.0, 5519.0, 5277.0, 5328.0, 5306.0, 5579.0, 5298.0, 5263.0, 5492.0, 5475.0, 5683.0, 5467.0, 5279.0, 5481.0, 5375.0, 5276.0, 5539.0, 5530.0, 5678.0, 5499.0, 5296.0, 5549.0, 5322.0, 5331.0, 5288.0, 5338.0, 5307.0, 5264.0, 5646.0, 5362.0, 5617.0, 5564.0, 5609.0, 5665.0, 5269.0, 5546.0, 5559.0, 5702.0, 5679.0, 5632.0, 5413.0, 5664.0, 5592.0, 5535.0, 5256.0, 5705.0, 5343.0, 5449.0, 5588.0, 5315.0, 5669.0, 5438.0, 5383.0, 5483.0, 5485.0, 5637.0, 5317.0, 5314.0, 5682.0, 5410.0, 5368.0, 5614.0, 5562.0, 5524.0, 5615.0, 5655.0, 5370.0, 5339.0, 5677.0, 5329.0, 5710.0, 5393.0, 5520.0, 5598.0, 5437.0, 5344.0, 5633.0, 5606.0, 5407.0, 5295.0, 5252.0, 5527.0, 5545.0, 5471.0, 5672.0, 5455.0, 5262.0, 5715.0, 5508.0, 5453.0, 5596.0, 5473.0, 5619.0, 5484.0, 5359.0, 5326.0, 5472.0 (number of hits: 7)
16	5550	9	1	333	1	5275.0, 5590.0, 5562.0, 5520.0, 5336.0, 5414.0, 5719.0, 5422.0, 5564.0, 5505.0, 5612.0, 5512.0, 5320.0, 5677.0, 5705.0, 5714.0, 5436.0, 5636.0, 5672.0, 5689.0, 5396.0, 5276.0, 5519.0, 5360.0, 5696.0, 5648.0, 5584.0, 5566.0, 5446.0, 5399.0, 5542.0, 5459.0, 5315.0, 5703.0, 5311.0, 5411.0, 5558.0, 5280.0, 5567.0, 5603.0, 5330.0, 5460.0, 5524.0, 5549.0, 5576.0, 5426.0, 5494.0, 5617.0, 5258.0, 5288.0, 5585.0, 5659.0, 5550.0, 5534.0, 5497.0, 5641.0, 5374.0, 5296.0, 5466.0, 5488.0, 5300.0, 5674.0, 5469.0, 5298.0, 5548.0, 5504.0, 5345.0, 5350.0, 5694.0, 5263.0, 5322.0, 5312.0, 5405.0, 5267.0, 5257.0, 5608.0, 5427.0, 5537.0, 5687.0, 5684.0, 5511.0, 5657.0, 5664.0, 5577.0, 5338.0, 5458.0, 5348.0, 5314.0, 5628.0, 5711.0, 5578.0, 5450.0, 5385.0, 5467.0, 5362.0, 5509.0, 5307.0, 5265.0, 5690.0, 5531.0 (number of hits: 8)
17	5550	9	1	333	1	5649.0, 5299.0, 5640.0, 5252.0, 5605.0, 5536.0, 5546.0, 5348.0, 5584.0, 5395.0, 5616.0, 5715.0, 5722.0, 5271.0, 5458.0, 5486.0, 5385.0, 5489.0, 5481.0, 5430.0, 5624.0, 5535.0, 5419.0, 5354.0, 5562.0, 5283.0, 5397.0, 5660.0, 5401.0, 5413.0, 5597.0, 5670.0, 5679.0, 5557.0, 5509.0, 5313.0, 5658.0, 5398.0, 5551.0, 5422.0, 5403.0, 5504.0, 5500.0, 5667.0, 5267.0, 5372.0, 5705.0, 5665.0, 5704.0, 5638.0, 5508.0, 5418.0, 5688.0, 5286.0, 5474.0, 5491.0, 5289.0, 5429.0, 5614.0, 5540.0, 5346.0, 5544.0, 5324.0, 5677.0, 5570.0,

						5633.0, 5476.0, 5498.0, 5641.0, 5279.0, 5450.0, 5282.0, 5278.0, 5549.0, 5662.0, 5526.0, 5288.0, 5293.0, 5577.0, 5643.0, 5349.0, 5537.0, 5493.0, 5475.0, 5472.0, 5337.0, 5468.0, 5531.0, 5442.0, 5387.0, 5587.0, 5294.0, 5664.0, 5609.0, 5416.0, 5487.0, 5394.0, 5256.0, 5556.0, 5694.0 (number of hits: 7)
18	5550	9	1	333	1	5261.0, 5474.0, 5706.0, 5378.0, 5668.0, 5341.0, 5696.0, 5495.0, 5406.0, 5625.0, 5346.0, 5319.0, 5539.0, 5308.0, 5307.0, 5275.0, 5584.0, 5567.0, 5687.0, 5664.0, 5683.0, 5701.0, 5357.0, 5268.0, 5424.0, 5488.0, 5360.0, 5690.0, 5490.0, 5549.0, 5673.0, 5289.0, 5375.0, 5379.0, 5577.0, 5649.0, 5443.0, 5349.0, 5508.0, 5458.0, 5304.0, 5572.0, 5345.0, 5461.0, 5316.0, 5661.0, 5473.0, 5326.0, 5416.0, 5451.0, 5695.0, 5516.0, 5682.0, 5277.0, 5594.0, 5520.0, 5645.0, 5675.0, 5585.0, 5671.0, 5273.0, 5633.0, 5502.0, 5383.0, 5418.0, 5365.0, 5658.0, 5610.0, 5253.0, 5374.0, 5405.0, 5392.0, 5409.0, 5270.0, 5517.0, 5310.0, 5258.0, 5467.0, 5496.0, 5595.0, 5306.0, 5636.0, 5510.0, 5295.0, 5713.0, 5472.0, 5631.0, 5421.0, 5507.0, 5482.0, 5580.0, 5293.0, 5479.0, 5531.0, 5462.0, 5522.0, 5354.0, 5448.0, 5311.0, 5449.0 (number of hits: 9)
19	5550	9	1	333	1	5460.0, 5313.0, 5534.0, 5289.0, 5366.0, 5711.0, 5404.0, 5701.0, 5693.0, 5494.0, 5257.0, 5452.0, 5643.0, 5327.0, 5265.0, 5641.0, 5363.0, 5516.0, 5689.0, 5583.0, 5666.0, 5662.0, 5337.0, 5557.0, 5596.0, 5374.0, 5471.0, 5360.0, 5591.0, 5387.0, 5683.0, 5582.0, 5270.0, 5696.0, 5339.0, 5663.0, 5296.0, 5505.0, 5639.0, 5407.0, 5288.0, 5497.0, 5389.0, 5514.0, 5692.0, 5303.0, 5661.0, 5307.0, 5650.0, 5547.0, 5358.0, 5700.0, 5537.0, 5273.0, 5511.0, 5305.0, 5535.0, 5606.0, 5487.0, 5309.0, 5456.0, 5507.0, 5377.0, 5417.0, 5498.0, 5558.0, 5607.0, 5538.0, 5573.0, 5491.0, 5499.0, 5694.0, 5656.0, 5254.0, 5469.0, 5512.0, 5477.0, 5251.0, 5412.0, 5605.0, 5340.0, 5255.0, 5277.0, 5272.0, 5604.0, 5644.0, 5658.0, 5519.0, 5654.0, 5527.0, 5653.0, 5637.0, 5399.0, 5526.0, 5331.0, 5705.0, 5392.0, 5638.0, 5426.0, 5445.0 (number of hits: 8)
20	5550	9	1	333	1	5482.0, 5643.0, 5374.0, 5630.0, 5326.0, 5289.0, 5474.0, 5299.0, 5484.0, 5577.0, 5280.0, 5276.0, 5399.0, 5569.0, 5265.0, 5387.0, 5428.0, 5462.0, 5672.0, 5264.0, 5431.0, 5372.0, 5297.0, 5376.0, 5481.0, 5329.0, 5490.0, 5403.0, 5312.0, 5657.0, 5303.0, 5585.0, 5410.0, 5382.0, 5396.0, 5252.0, 5440.0, 5625.0, 5649.0, 5364.0, 5553.0, 5453.0, 5409.0, 5323.0, 5305.0,

						5642.0, 5340.0, 5405.0, 5456.0, 5554.0, 5541.0, 5549.0, 5463.0, 5251.0, 5441.0, 5683.0, 5556.0, 5274.0, 5587.0, 5419.0, 5343.0, 5523.0, 5256.0, 5620.0, 5267.0, 5430.0, 5528.0, 5461.0, 5564.0, 5338.0, 5257.0, 5673.0, 5527.0, 5674.0, 5328.0, 5715.0, 5566.0, 5284.0, 5699.0, 5394.0, 5514.0, 5423.0, 5521.0, 5627.0, 5451.0, 5476.0, 5473.0, 5633.0, 5546.0, 5622.0, 5563.0, 5512.0, 5450.0, 5513.0, 5319.0, 5296.0, 5422.0, 5648.0, 5496.0, 5352.0 (number of hits: 7)
21	5550	9	1	333	1	5645.0, 5546.0, 5506.0, 5489.0, 5522.0, 5392.0, 5371.0, 5720.0, 5479.0, 5599.0, 5622.0, 5679.0, 5389.0, 5498.0, 5591.0, 5653.0, 5471.0, 5334.0, 5705.0, 5683.0, 5386.0, 5551.0, 5684.0, 5524.0, 5295.0, 5272.0, 5254.0, 5292.0, 5574.0, 5656.0, 5549.0, 5648.0, 5391.0, 5709.0, 5384.0, 5568.0, 5379.0, 5719.0, 5262.0, 5263.0, 5559.0, 5588.0, 5398.0, 5296.0, 5618.0, 5434.0, 5654.0, 5347.0, 5251.0, 5651.0, 5507.0, 5363.0, 5643.0, 5623.0, 5428.0, 5394.0, 5440.0, 5449.0, 5605.0, 5464.0, 5547.0, 5421.0, 5325.0, 5556.0, 5690.0, 5575.0, 5453.0, 5688.0, 5637.0, 5691.0, 5430.0, 5478.0, 5268.0, 5586.0, 5364.0, 5374.0, 5594.0, 5252.0, 5338.0, 5702.0, 5425.0, 5359.0, 5652.0, 5416.0, 5300.0, 5628.0, 5432.0, 5362.0, 5577.0, 5353.0, 5670.0, 5552.0, 5644.0, 5255.0, 5330.0, 5557.0, 5482.0, 5414.0, 5387.0, 5267.0 (number of hits: 4)
22	5550	9	1	333	1	5611.0, 5563.0, 5300.0, 5316.0, 5581.0, 5491.0, 5550.0, 5439.0, 5426.0, 5646.0, 5355.0, 5660.0, 5289.0, 5535.0, 5566.0, 5481.0, 5559.0, 5455.0, 5487.0, 5643.0, 5347.0, 5619.0, 5309.0, 5431.0, 5325.0, 5617.0, 5295.0, 5447.0, 5545.0, 5443.0, 5579.0, 5465.0, 5711.0, 5284.0, 5499.0, 5437.0, 5723.0, 5637.0, 5343.0, 5570.0, 5515.0, 5567.0, 5446.0, 5370.0, 5432.0, 5360.0, 5691.0, 5342.0, 5667.0, 5572.0, 5251.0, 5311.0, 5502.0, 5382.0, 5408.0, 5401.0, 5285.0, 5506.0, 5612.0, 5468.0, 5574.0, 5478.0, 5705.0, 5458.0, 5466.0, 5541.0, 5685.0, 5600.0, 5664.0, 5632.0, 5258.0, 5575.0, 5409.0, 5323.0, 5631.0, 5623.0, 5695.0, 5556.0, 5683.0, 5250.0, 5339.0, 5378.0, 5302.0, 5682.0, 5397.0, 5590.0, 5260.0, 5629.0, 5433.0, 5668.0, 5593.0, 5338.0, 5489.0, 5720.0, 5532.0, 5305.0, 5361.0, 5363.0, 5434.0, 5341.0 (number of hits: 8)
23	5550	9	1	333	1	5600.0, 5275.0, 5579.0, 5531.0, 5544.0, 5273.0, 5496.0, 5251.0, 5537.0, 5252.0, 5317.0, 5289.0, 5701.0, 5714.0, 5398.0, 5267.0, 5507.0, 5262.0, 5406.0, 5618.0, 5282.0, 5596.0, 5662.0, 5250.0, 5584.0,

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24	5550	9	1	333	1	5657.0, 5587.0, 5312.0, 5471.0, 5719.0, 5309.0, 5422.0, 5342.0, 5272.0, 5570.0, 5578.0, 5553.0, 5576.0, 5535.0, 5316.0, 5492.0, 5705.0, 5490.0, 5691.0, 5396.0, 5692.0, 5452.0, 5428.0, 5628.0, 5282.0, 5481.0, 5639.0, 5426.0, 5700.0, 5434.0, 5600.0, 5382.0, 5429.0, 5470.0, 5317.0, 5567.0, 5550.0, 5453.0, 5609.0, 5387.0, 5332.0, 5402.0, 5266.0, 5390.0, 5487.0, 5334.0, 5336.0, 5586.0, 5715.0, 5624.0, 5261.0, 5298.0, 5341.0, 5465.0, 5370.0, 5303.0, 5403.0, 5717.0, 5647.0, 5523.0, 5652.0, 5259.0, 5638.0, 5290.0, 5688.0, 5489.0, 5598.0, 5349.0, 5687.0, 5254.0, 5263.0, 5463.0, 5592.0, 5467.0, 5511.0, 5597.0, 5269.0, 5575.0, 5701.0, 5658.0, 5451.0, 5446.0, 5414.0, 5606.0, 5710.0, 5357.0, 5330.0, 5408.0, 5634.0, 5556.0, 5505.0, 5288.0, 5545.0, 5718.0, 5640.0, 5684.0, 5280.0, 5394.0, 5532.0, 5486.0 (number of hits: 6)
25	5550	9	1	333	1	5720.0, 5482.0, 5486.0, 5710.0, 5434.0, 5522.0, 5250.0, 5467.0, 5469.0, 5260.0, 5571.0, 5662.0, 5557.0, 5641.0, 5610.0, 5312.0, 5343.0, 5411.0, 5480.0, 5595.0, 5654.0, 5460.0, 5529.0, 5297.0, 5526.0, 5708.0, 5302.0, 5408.0, 5607.0, 5361.0, 5694.0, 5283.0, 5494.0, 5702.0, 5363.0, 5711.0, 5359.0, 5592.0, 5376.0, 5290.0, 5344.0, 5509.0, 5672.0, 5321.0, 5572.0, 5347.0, 5636.0, 5388.0, 5599.0, 5513.0, 5695.0, 5287.0, 5474.0, 5366.0, 5493.0, 5357.0, 5690.0, 5588.0, 5593.0, 5374.0, 5584.0, 5564.0, 5300.0, 5356.0, 5626.0, 5404.0, 5567.0, 5651.0, 5586.0, 5288.0, 5391.0, 5381.0, 5471.0, 5304.0, 5590.0, 5596.0, 5338.0, 5410.0, 5656.0, 5510.0, 5368.0, 5402.0, 5440.0, 5488.0, 5490.0, 5481.0, 5433.0, 5499.0, 5313.0, 5303.0, 5426.0, 5717.0, 5414.0, 5306.0, 5649.0, 5457.0, 5661.0, 5278.0, 5548.0, 5262.0 (number of hits: 11)
26	5550	9	1	333	1	5537.0, 5642.0, 5339.0, 5302.0, 5697.0,

						5535.0, 5473.0, 5529.0, 5467.0, 5351.0, 5260.0, 5551.0, 5683.0, 5554.0, 5376.0, 5416.0, 5629.0, 5394.0, 5498.0, 5401.0, 5347.0, 5300.0, 5564.0, 5609.0, 5512.0, 5516.0, 5724.0, 5499.0, 5528.0, 5645.0, 5477.0, 5366.0, 5370.0, 5713.0, 5468.0, 5646.0, 5677.0, 5424.0, 5430.0, 5585.0, 5569.0, 5312.0, 5391.0, 5273.0, 5627.0, 5684.0, 5437.0, 5436.0, 5375.0, 5552.0, 5546.0, 5316.0, 5563.0, 5472.0, 5513.0, 5349.0, 5279.0, 5359.0, 5575.0, 5553.0, 5318.0, 5292.0, 5354.0, 5265.0, 5326.0, 5616.0, 5580.0, 5589.0, 5657.0, 5691.0, 5412.0, 5446.0, 5392.0, 5462.0, 5603.0, 5417.0, 5319.0, 5389.0, 5716.0, 5255.0, 5696.0, 5665.0, 5534.0, 5717.0, 5341.0, 5619.0, 5505.0, 5471.0, 5709.0, 5296.0, 5268.0, 5633.0, 5441.0, 5579.0, 5303.0, 5281.0, 5530.0, 5690.0, 5277.0, 5679.0 (number of hits: 6)
27	5550	9	1	333	1	5251.0, 5621.0, 5433.0, 5633.0, 5508.0, 5593.0, 5591.0, 5477.0, 5332.0, 5555.0, 5680.0, 5299.0, 5388.0, 5567.0, 5499.0, 5306.0, 5323.0, 5526.0, 5620.0, 5667.0, 5504.0, 5377.0, 5515.0, 5403.0, 5380.0, 5329.0, 5511.0, 5650.0, 5551.0, 5385.0, 5720.0, 5617.0, 5568.0, 5711.0, 5391.0, 5399.0, 5627.0, 5639.0, 5643.0, 5315.0, 5496.0, 5352.0, 5441.0, 5340.0, 5376.0, 5578.0, 5369.0, 5713.0, 5548.0, 5549.0, 5472.0, 5714.0, 5669.0, 5501.0, 5597.0, 5601.0, 5716.0, 5518.0, 5372.0, 5550.0, 5343.0, 5300.0, 5381.0, 5614.0, 5273.0, 5671.0, 5298.0, 5337.0, 5682.0, 5426.0, 5295.0, 5649.0, 5502.0, 5492.0, 5412.0, 5415.0, 5710.0, 5347.0, 5632.0, 5386.0, 5476.0, 5269.0, 5688.0, 5612.0, 5697.0, 5401.0, 5651.0, 5547.0, 5624.0, 5409.0, 5357.0, 5611.0, 5542.0, 5313.0, 5431.0, 5456.0, 5361.0, 5262.0, 5510.0, 5630.0 (number of hits: 6)
28	5550	9	1	333	1	5433.0, 5396.0, 5410.0, 5316.0, 5601.0, 5697.0, 5540.0, 5673.0, 5523.0, 5531.0, 5654.0, 5628.0, 5366.0, 5551.0, 5436.0, 5386.0, 5649.0, 5613.0, 5528.0, 5558.0, 5502.0, 5493.0, 5432.0, 5415.0, 5694.0, 5277.0, 5651.0, 5326.0, 5612.0, 5534.0, 5311.0, 5699.0, 5300.0, 5589.0, 5602.0, 5653.0, 5519.0, 5656.0, 5393.0, 5371.0, 5660.0, 5481.0, 5439.0, 5359.0, 5365.0, 5488.0, 5338.0, 5283.0, 5577.0, 5406.0, 5717.0, 5446.0, 5526.0, 5477.0, 5278.0, 5331.0, 5518.0, 5319.0, 5557.0, 5443.0, 5398.0, 5474.0, 5290.0, 5573.0, 5347.0, 5606.0, 5599.0, 5665.0, 5704.0, 5591.0, 5633.0, 5377.0, 5276.0, 5547.0, 5648.0, 5301.0, 5685.0, 5358.0, 5412.0, 5441.0, 5678.0, 5631.0, 5605.0, 5553.0, 5504.0, 5603.0, 5275.0, 5586.0, 5342.0, 5425.0,

						5323.0, 5369.0, 5576.0, 5262.0, 5482.0, 5565.0, 5627.0, 5382.0, 5251.0, 5585.0 (number of hits: 4)
29	5550	9	1	333	1	5377.0, 5715.0, 5655.0, 5412.0, 5671.0, 5574.0, 5447.0, 5361.0, 5250.0, 5588.0, 5413.0, 5711.0, 5721.0, 5567.0, 5300.0, 5443.0, 5405.0, 5616.0, 5269.0, 5504.0, 5280.0, 5583.0, 5529.0, 5506.0, 5585.0, 5481.0, 5329.0, 5284.0, 5589.0, 5687.0, 5482.0, 5557.0, 5488.0, 5560.0, 5428.0, 5256.0, 5476.0, 5617.0, 5331.0, 5430.0, 5272.0, 5296.0, 5351.0, 5450.0, 5565.0, 5400.0, 5427.0, 5689.0, 5339.0, 5562.0, 5694.0, 5469.0, 5435.0, 5708.0, 5315.0, 5322.0, 5662.0, 5500.0, 5417.0, 5332.0, 5490.0, 5596.0, 5604.0, 5470.0, 5539.0, 5455.0, 5425.0, 5291.0, 5396.0, 5635.0, 5550.0, 5478.0, 5645.0, 5433.0, 5338.0, 5449.0, 5279.0, 5477.0, 5540.0, 5357.0, 5267.0, 5453.0, 5423.0, 5254.0, 5591.0, 5359.0, 5484.0, 5466.0, 5379.0, 5342.0, 5287.0, 5609.0, 5501.0, 5547.0, 5298.0, 5304.0, 5622.0, 5618.0, 5639.0, 5295.0 (number of hits: 7)
30	5550	9	1	333	1	5479.0, 5441.0, 5402.0, 5392.0, 5259.0, 5312.0, 5702.0, 5252.0, 5357.0, 5619.0, 5395.0, 5641.0, 5503.0, 5607.0, 5390.0, 5665.0, 5470.0, 5471.0, 5504.0, 5418.0, 5649.0, 5359.0, 5348.0, 5345.0, 5615.0, 5569.0, 5642.0, 5394.0, 5646.0, 5460.0, 5258.0, 5620.0, 5260.0, 5627.0, 5456.0, 5705.0, 5587.0, 5342.0, 5644.0, 5453.0, 5721.0, 5365.0, 5631.0, 5543.0, 5556.0, 5710.0, 5595.0, 5389.0, 5663.0, 5634.0, 5562.0, 5515.0, 5377.0, 5601.0, 5669.0, 5250.0, 5400.0, 5326.0, 5609.0, 5516.0, 5263.0, 5604.0, 5694.0, 5464.0, 5290.0, 5647.0, 5632.0, 5635.0, 5547.0, 5523.0, 5323.0, 5653.0, 5459.0, 5324.0, 5717.0, 5610.0, 5536.0, 5591.0, 5573.0, 5307.0, 5261.0, 5347.0, 5719.0, 5289.0, 5489.0, 5715.0, 5351.0, 5440.0, 5585.0, 5484.0, 5382.0, 5477.0, 5606.0, 5550.0, 5499.0, 5356.0, 5521.0, 5675.0, 5298.0, 5468.0 (number of hits: 5)

10 Appendix A - Test Setup Photographs

10.1 Test Setup View

11 Appendix B C – EUT Photographs

11.1 EUT – Top View

11.2 EUT – Front View

11.3 EUT – Left Side View

11.4 EUT – Right Side View

11.5 EUT – Rear Side View

11.6 EUT – Bottom Side View
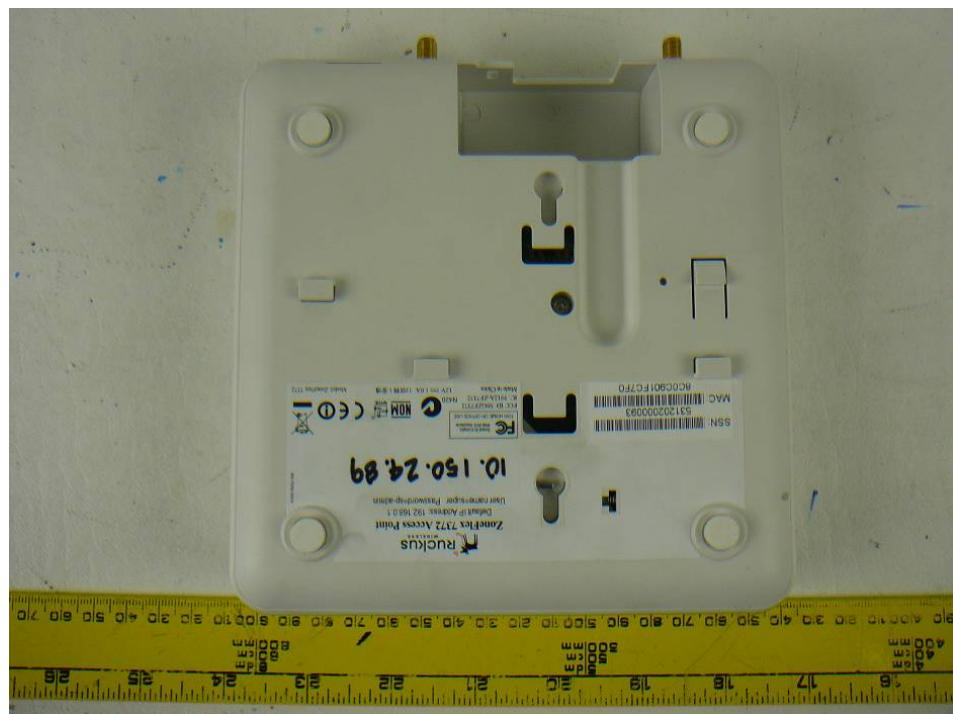
11.7   EUT – Dipole Antennas

11.8   EUT – 5 dBi Patch Antenna

11.9   EUT – 7.5 dBi Patch Antenna

--- END OF REPORT ---