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

For

Fortinet, Inc.

899 Kifer Road,

Sunnyvale, CA 94086, USA

FCC ID: TVE-261DD011
IC: 7280B-261DD011

Report Type:	**Product Type:**
Original Report	Access Point

Prepared By:	Jose Martinez Test Engineer
Report Number:	R1709193-DFS
Report Date:	2017-10-24
Reviewed By:	Frank Wang RF Engineer

Bay Area Compliance Laboratories Corporation (BACL)
1274 Anvilwood Avenue,
Sunnyvale, CA 94089, USA
Tel: 1 (408) 732-9162
Fax: 1 (408) 732-9164

TABLE OF CONTENTS

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	R1709193-DFS	Original Report	-

1 General Description

1.1 Product Description for Equipment under Test (EUT)

This test and measurement report was prepared on behalf of the *Fortinet, Inc.* and their product models *FAP-U321EV, FAP-U323EV. Fortinet, Inc,* has declared that the 2 products are electrically identical with the same electromagnetic emissions and electromagnetic compatibility characteristics except *FAP-U321EV* has Internal Antenna, *FAP-U323EV* has External Antenna. In this report, only *FAP-U323EV* was tested to cover the other corresponding model. Model *FAP-U323EV,* FCC ID: TVE-261DD011, IC: 7280B-261DD011, henceforth is referred to as the EUT. The EUT is an access point.

1.2 Mechanical Description of EUT

The EUT measures approximately 225 mm (L) x 225 mm (W) and weighs approximately 500 g.

The data gathered are from production sample provided by the manufacturer, serial number: R1709193-1, assigned by BACL.

1.3 Objective

This report is prepared on behalf of *Fortinet, Inc*. in accordance with FCC CFR47 §15.407 (h), RSS-247 Issue 2 and KDB: 905462 D02 UNII DFS Compliance Procedures New Rules v02.

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 in Master Mode.

1.4 Related Submittal(s)/Grant(s)

N/A

1.5 Test Methodology

FCC CFR 47 Part2, Part15.407 (h), RSS-247 Issue 2

KDB: 905462 D02 UNII DFS Compliance Procedures New Rules v02.

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

1.6 Test Facility Registrations

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

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

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

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

1.7 Test Facility Accreditations

Bay Area Compliance Laboratories Corp. (BACL) is:

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

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

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

- For the USA (Federal Communications Commission):
    1- All Unlicensed radio frequency devices within FCC Scopes A1, A2, A3, and A4;
    2- All Licensed radio frequency devices within FCC Scopes B1, B2, B3, and B4;
    3- All Telephone Terminal Equipment within FCC Scope C.
- For the Canada (Industry Canada):
    1 All Scope 1-Licence-Exempt Radio Frequency Devices;
    2 All Scope 2-Licensed Personal Mobile Radio Services;
    3 All Scope 3-Licensed General Mobile & Fixed Radio Services;
    4 All Scope 4-Licensed Maritime & Aviation Radio Services;
    5 All Scope 5-Licensed Fixed Microwave Radio Services
    6 All Broadcasting Technical Standards (BETS) in the Category I Equipment Standards List.
- For Singapore (Info-Communications Development Authority (IDA)):
    1 All Line Terminal Equipment: All Technical Specifications for Line Terminal Equipment – Table 1 of IDA MRA Recognition Scheme: 2011, Annex 2
    2. All Radio-Communication Equipment: All Technical Specifications for Radio-Communication Equipment – Table 2 of IDA MRA Recognition Scheme: 2011, Annex 2
- For the Hong Kong Special Administrative Region:
    1 All Radio Equipment, per KHCA 10XX-series Specifications;
    2 All GMDSS Marine Radio Equipment, per HKCA 12XX-series Specifications;
    3 All Fixed Network Equipment, per HKCA 20XX-series Specifications.
- For Japan:
    1 MIC Telecommunication Business Law (Terminal Equipment):
        - All Scope A1 - Terminal Equipment for the Purpose of Calls;
        - All Scope A2 - Other Terminal Equipment
    2 Radio Law (Radio Equipment):
        - All Scope B1 - Specified Radio Equipment specified in Article 38-2-2, paragraph 1, item 1 of the Radio Law
        - All Scope B2 - Specified Radio Equipment specified in Article 38-2-2, paragraph 1, item 2 of the Radio Law
        - All Scope B3 - Specified Radio Equipment specified in Article 38-2-2, paragraph 1, item 3 of the Radio Law

C- ***A Product Certification Body accredited to ISO/IEC 17065:2012 by A2LA (Product Certification Body Accreditation Certificate Number 3297.01)*** to certify Products to USA's Environmental Protection Agency (EPA) ENERGY STAR Product Specifications for:

1 Electronics and Office Equipment:
- for Telephony (ver. 3.0)
- for Audio/Video (ver. 3.0)
- for Battery Charging Systems (ver. 1.1)
- for Set-top Boxes & Cable Boxes (ver. 4.1)
- for Televisions (ver. 6.1)
- for Computers (ver. 6.0)
- for Displays (ver. 6.0)
- for Imaging Equipment (ver. 2.0)
- for Computer Servers (ver. 2.0)

2 Commercial Food Service Equipment
- for Commercial Dishwashers (ver. 2.0)
- for Commercial Ice Machines (ver. 2.0)
- for Commercial Ovens (ver. 2.1)
- for Commercial Refrigerators and Freezers

3 Lighting Products
- For Decorative Light Strings (ver. 1.5)
- For Luminaires (including sub-components) and Lamps (ver. 1.2)
- For Compact Fluorescent Lamps (CFLs) (ver. 4.3)
- For Integral LED Lamps (ver. 1.4)

4 Heating, Ventilation, and AC Products
- for Residential Ceiling Fans (ver. 3.0)
- for Residential Ventilating Fans (ver. 3.2)

5 Other
- For Water Coolers (ver. 3.0)

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

- Australia: ACMA (Australian Communication and Media Authority) – APEC Tel MRA -Phase I;
- Canada: (Industry Canada - IC) Foreign Certification Body – FCB – APEC Tel MRA -Phase I & Phase II;
- Chinese Taipei (Republic of China – Taiwan):
  - BSMI (Bureau of Standards, Metrology and Inspection) APEC Tel MRA -Phase I;
  - NCC (National Communications Commission) APEC Tel MRA -Phase I;
- European Union:
  - EMC Directive 2014/30/EC US-EU EMC & Telecom MRA CAB
  - Radio & Teleterminal Equipment (R&TTE) Directive 1995/5/EC US -EU EMC & Telecom MRA CAB

  Hong Kong Special Administrative Region: (Office of the Telecommunications Authority – OFTA) APEC Tel MRA -Phase I & Phase II
- Israel – US-Israel MRA Phase I
- Republic of Korea (Ministry of Communications - Radio Research Laboratory) APEC Tel MRA -Phase I
- Singapore: (Infocomm Development Authority - IDA) APEC Tel MRA -Phase I & Phase II;
- Japan: VCCI - Voluntary Control Council for Interference US-Japan Telecom Treaty VCCI Side Letter-
- USA:
  - ENERGY STAR Recognized Test Laboratory – US EPA
  - Telecommunications Certification Body (TCB) – US FCC;

Vietnam: APEC Tel MRA -Phase I;

2 EUT Test Configuration

2.1 Justification

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

2.2 EUT Exercise Software

The test utility used was Tera Term. The OS installed in the EUT is Meru Linux OS 8.3-3dev-6 build. The other EUT had Fortinet Operating System installed.

2.3 Equipment Modifications

N/A

2.4 Local Support Equipment

Manufacturer	Description	Model	Serial Number
Dell Inc.	Laptop	E6410	N/A
Fortinet	Controller-1	FortiWiFi 60D	FWF60D4Q16023633
Meru	Controller-2	MC1550	0613MC1552117

2.5 Interface Ports and Cables

Cable Description	Length (M)	From	To
RJ 45 (CAT 5)	< 3	Controller-1	POE
RJ 45 (CAT 5)	< 3	Controller-2	Controller-1
RJ 45 (CAT 5)	< 3	Laptop	Controller-1
RJ 45 (CAT 5)	< 3	POE	EUT
Serial Cable	< 3	EUT	Laptop

2.6 Power Supply and Line Filters

Manufacturer	Description	Model	Part Number
Microsemi	POE injector	9001GR	C15166582000009569

3 Summary of Test Results

The following result table represents the list of measurements required under the FCC CFR47 §15.407 (h), RSS-247 Issue 2 and KDB: 905462 D02 UNII DFS Compliance Procedures New Rules v02.

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

4 Applicable Standards

4.1 DFS Requirement

FCC CFR47 §15.407 (h), RSS-247 Issue 2 and KDB: 905462 D02 UNII DFS Compliance Procedures New Rules v02.

Table 1: Applicability of DFS requirements prior to use of a channel

Requirement	Operational Mode		
	Master	Client (Without radar detection)	Client (With radar detection)
Non-Occupancy Period	Yes	Not Required	Yes
DFS Detection Threshold	Yes	Not Required	Yes
Channel Availability Check Time	Yes	Not Required	Not Required
U-NII Detection Bandwidth	Yes	Not Required	Yes

Table 2: Applicability of DFS requirements during normal operation

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

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

Table 3: Interference Threshold for Master and Client with Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2 and 3)
EIRP≥ 200 milliwatt	-64 dBm
EIRP< 200 milliwatt and power spectral density < 10dBm/MHz	-62 dBm
EIRP< 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.
Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.
Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

Table 4: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds ***See Note 1***.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. ***See Notes 1 and 2***.
U-NII Detection Bandwidth	Minimum 100% of the UNII 99% transmission power bandwidth. ***See Note 3***.

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

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 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

Table 5: Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (Microseconds)	PRI (Microseconds)	Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a Test B: 15 unique PRI values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A	$\text{Roundup}\left\{\left(\frac{1}{360}\right)\cdot\left(\frac{19\cdot10^6}{\text{PRI}_{\mu\text{sec}}}\right)\right\}$	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
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					

Table 6: Long Pulse Radar Test Signal

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

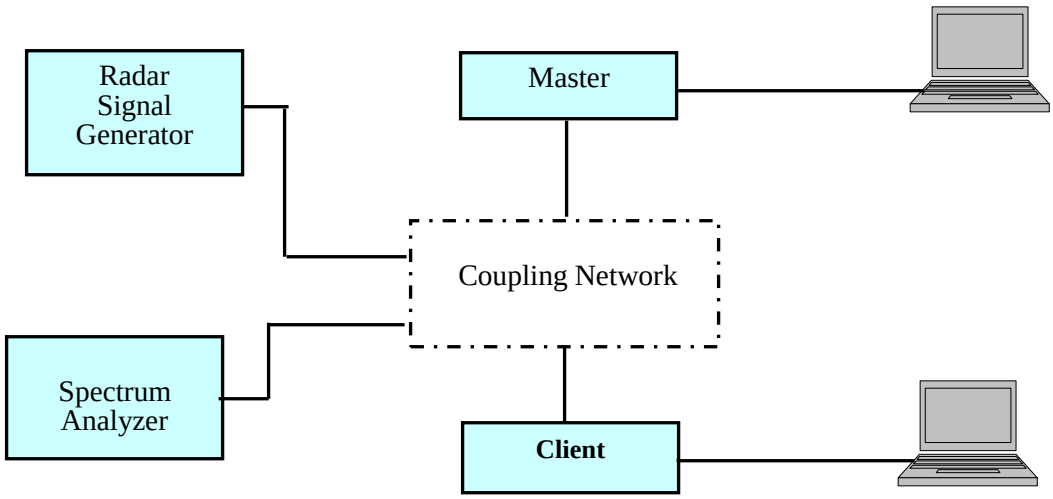
Table 7: Frequency Hopping Radar Test Signal

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

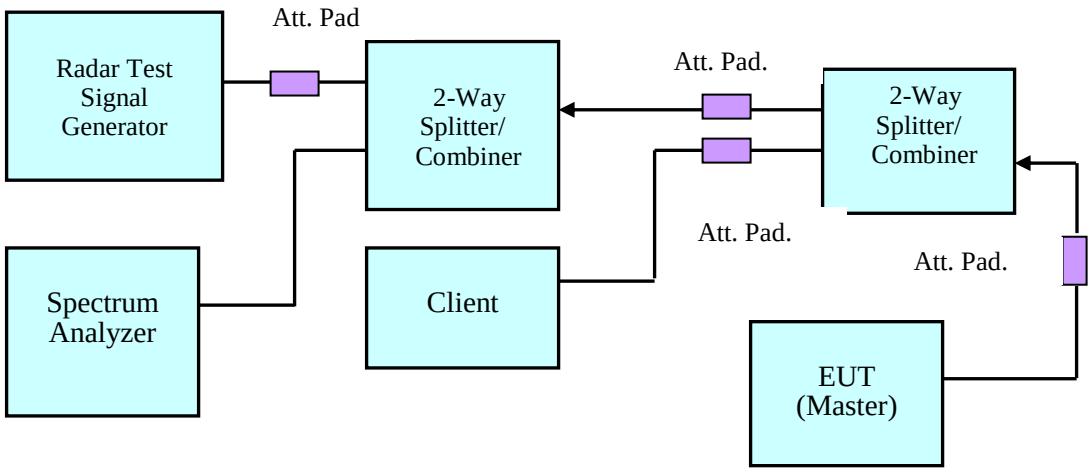
4.2 DFS Measurement System

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

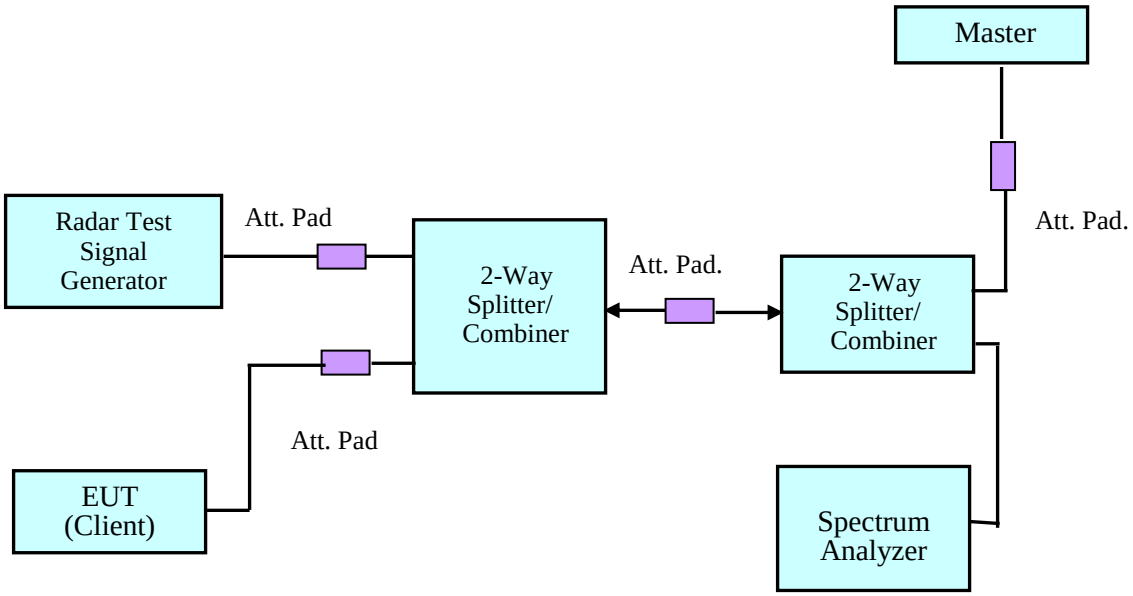
4.3 System Block Diagram



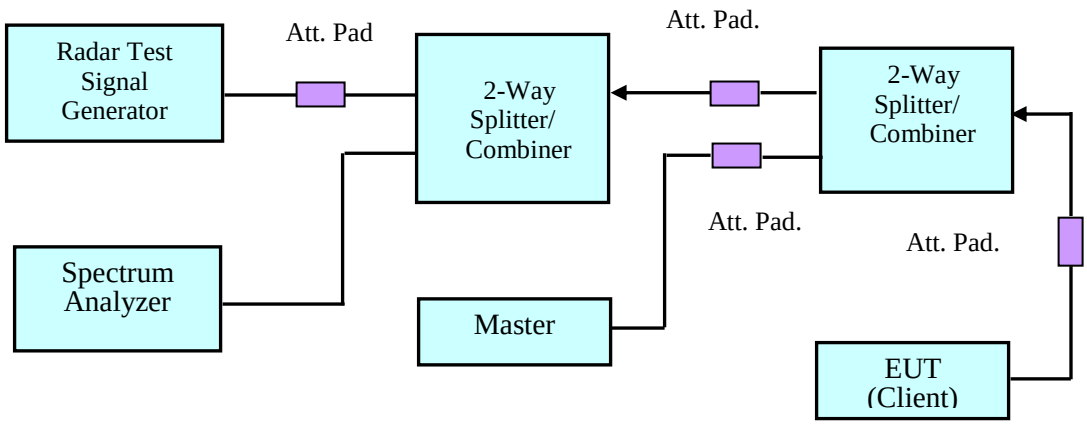
4.4 Conducted Method



Setup for Master with injection at the Master

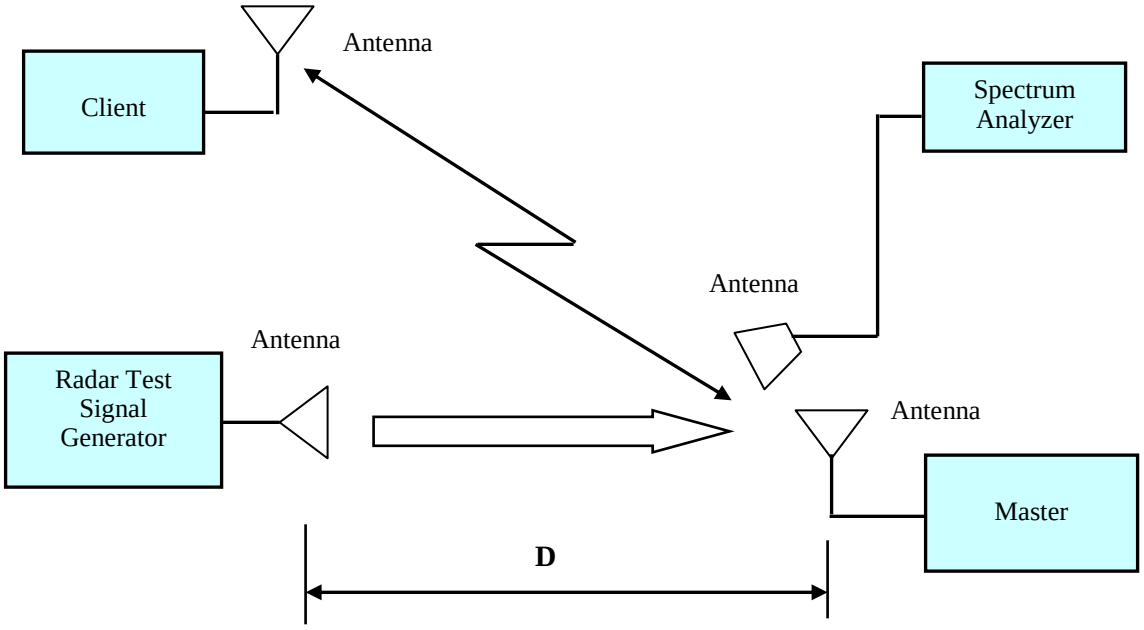


Setup for Client with injection at the Master



Setup for Client with injection at the Client

4.5 Radiated Method



4.6 Test Procedure

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

The rated output power of EUT is > 23 dBm (EIRP), Therefore the required interference threshold level is -64 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.

5.2 Antenna Description

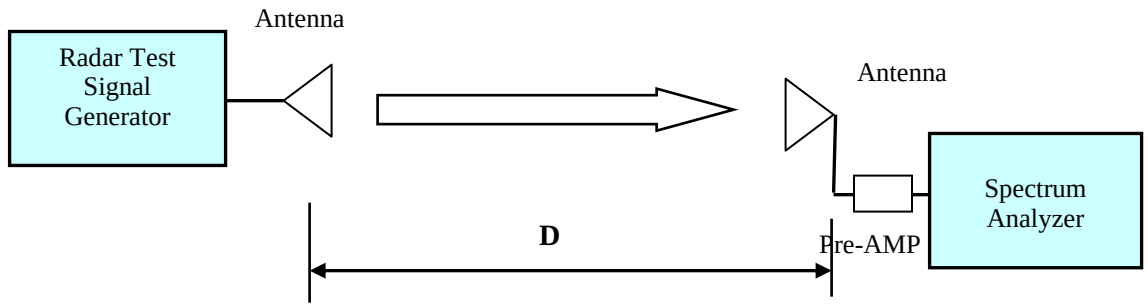
Antenna Type	Antenna Gain (dBi) @ 5 GHz
PIFA	6.5
Dipole	5

5.3 Test Equipment List and Details

Manufacturer	Equipment Description	Model	S/N	Calibration Date	Calibration Interval
National Instruments	NI PXI-1042 8-Slot chassis	PXI-1042	V08X01EE1	N/A	N/A
National Instruments	Arbitrary Waveform Generator	PXI-5421	N/A	N/A	N/A
National Instruments	RF Upconverter	PXI-5610	N/A	N/A	N/A
ASCOR	Upconverter	AS-7206	N/A	N/A	N/A
Agilent	Analyzer, Spectrum	E4440A	US45303156	2017-01-19	1 year
A.R.A.	Antenna Horn	DRG-118/A	1132	2016-01-29	2 years
EMCO	Antenna Horn	3115	9511-4627	2015-10-17	2 years
Mini-Circuits	Splitter/Combiner	2FSC-2-10G	0349	N/A	N/A
Narda	Splitter/Combiner	4326B-2	03514	N/A	N/A
Midwest	Attenuator	290-30	N/A	N/A	N/A
Mini-Circuits	Attenuator	BW-S30W2	N/A	N/A	N/A

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

5.4 Radar Waveform Calibration



Radiated Calibration Setup Block Diagram

5.5 Test Environmental Conditions

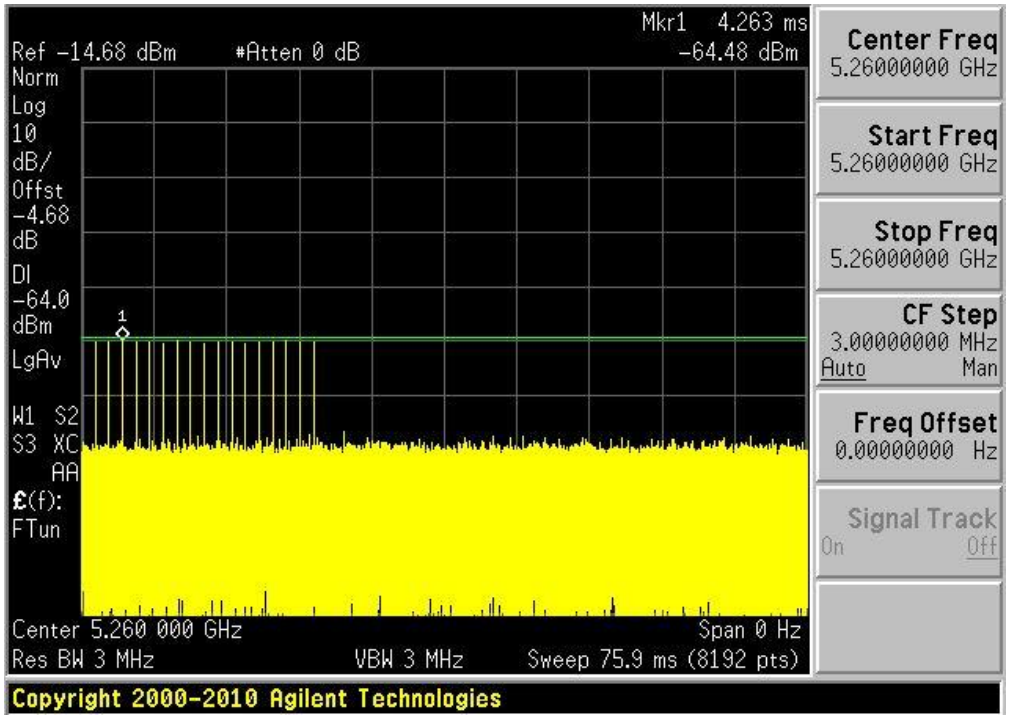
Temperature:	22-25° C
Relative Humidity:	45-48 %
ATM Pressure:	102.1 kPa

Testing was performed by ChinMing Lui and Jose Martinez on 2017-09-19 at the DFS site.

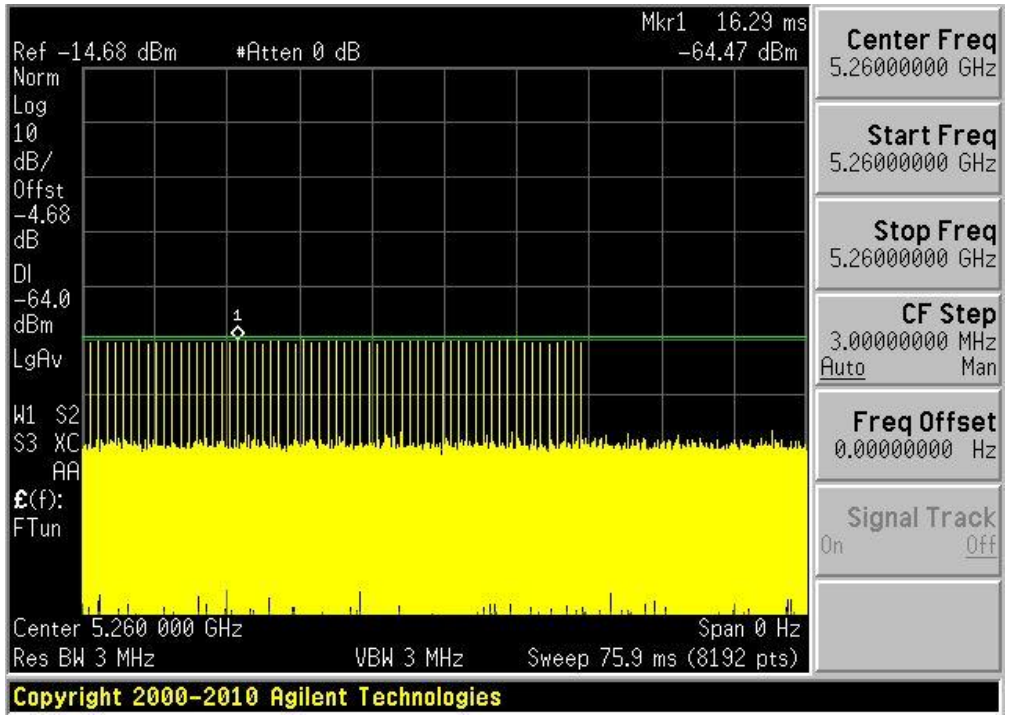
Plots of Radar Waveforms

5260 MHz

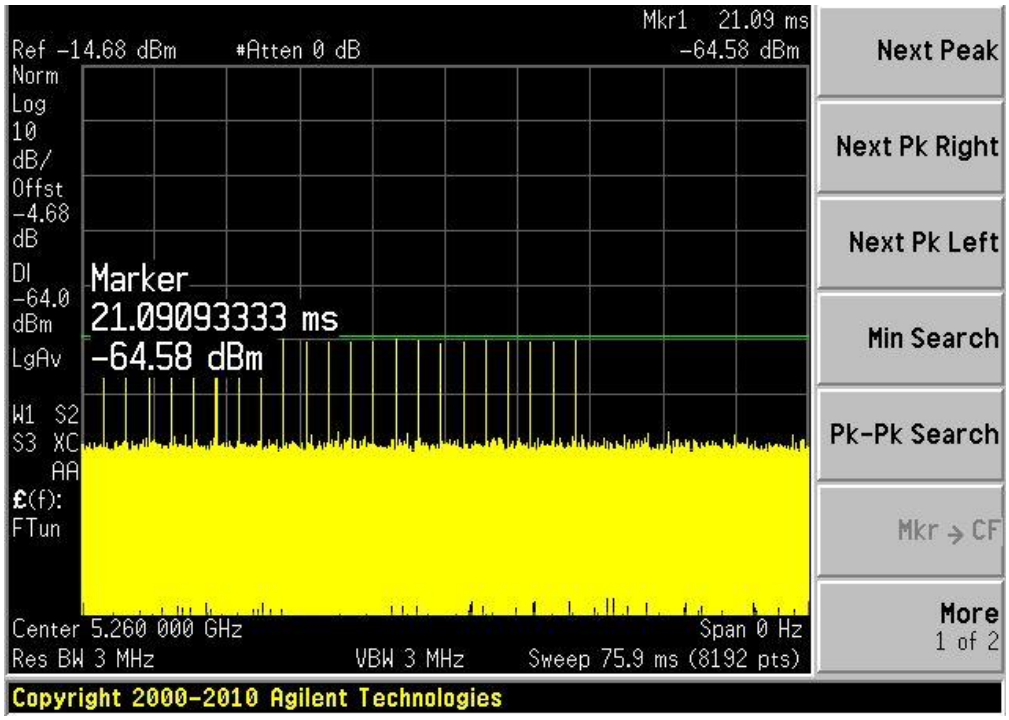
Radar Type 0



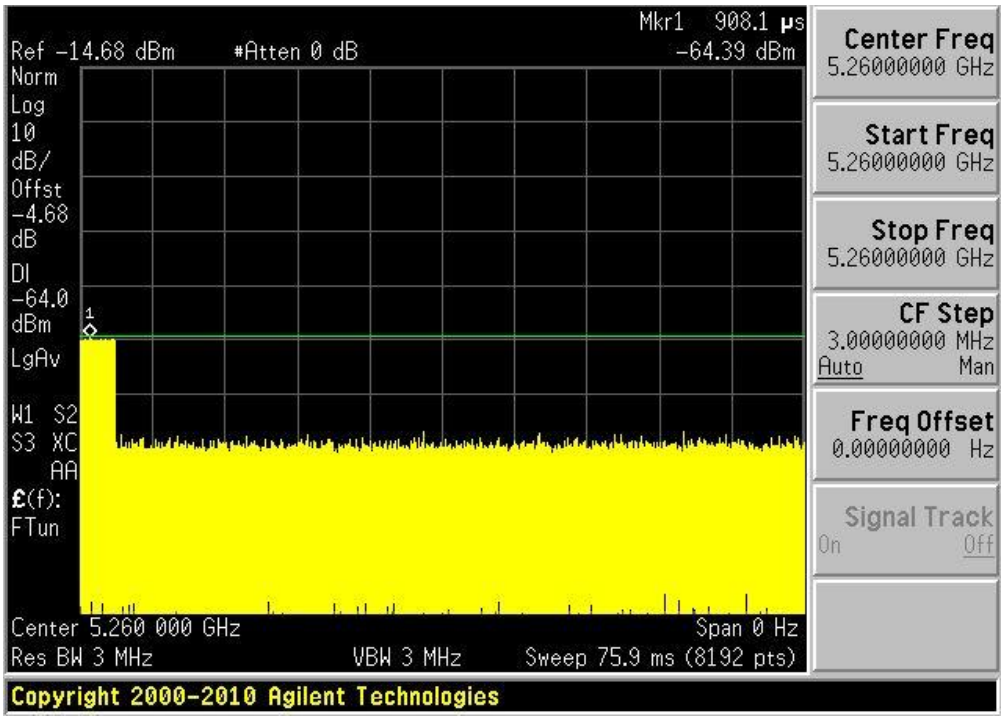
Radar Type 1A



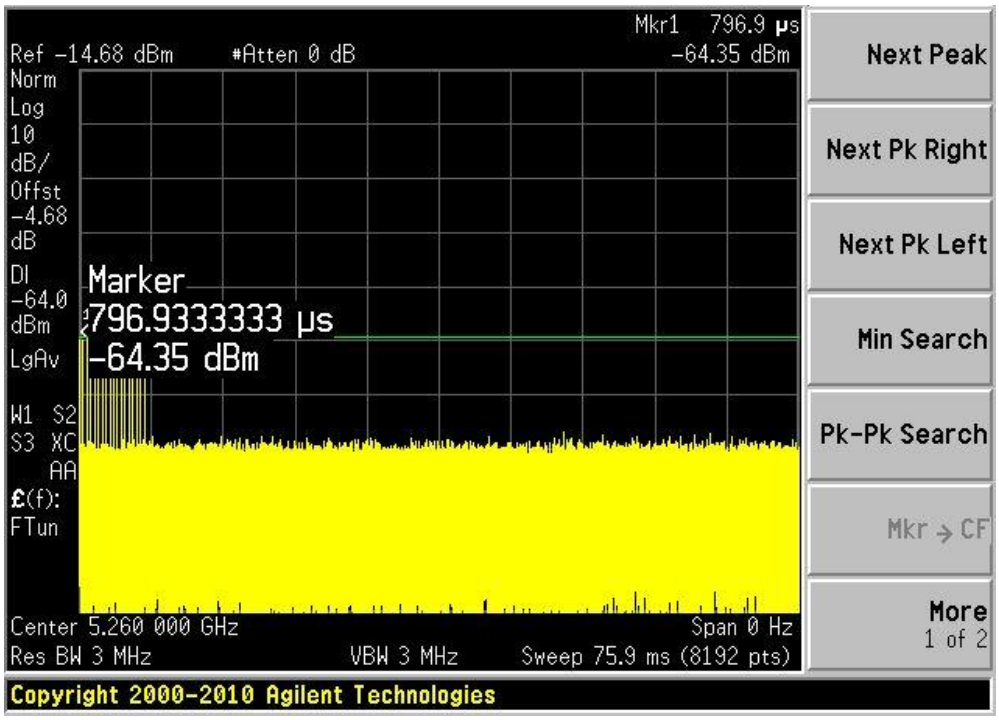
Radar Type 1B



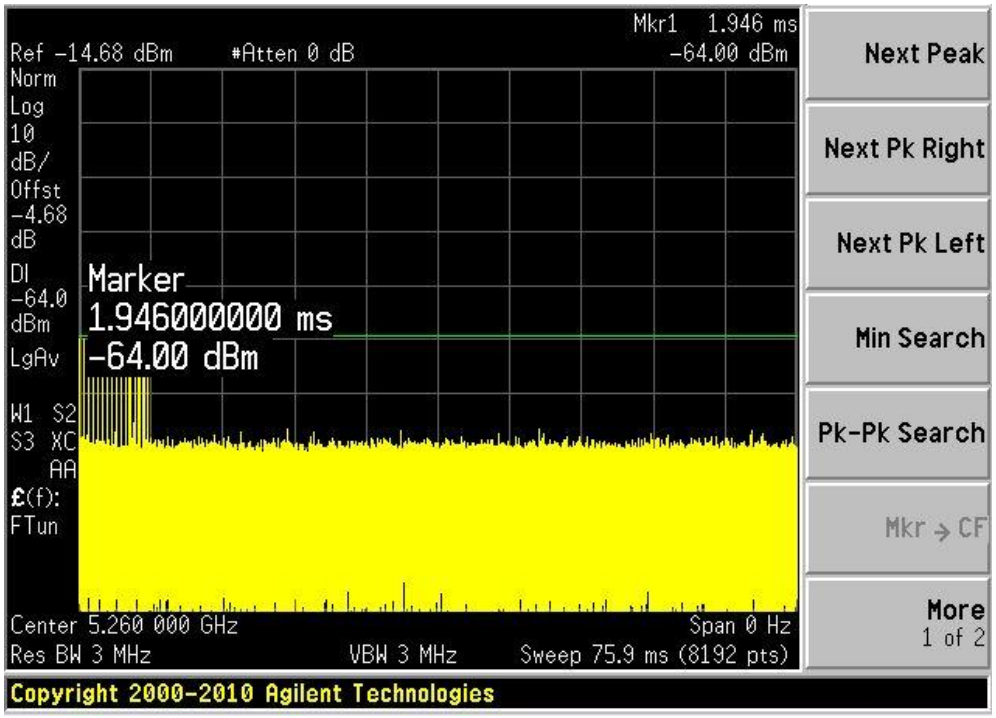
Radar Type 2



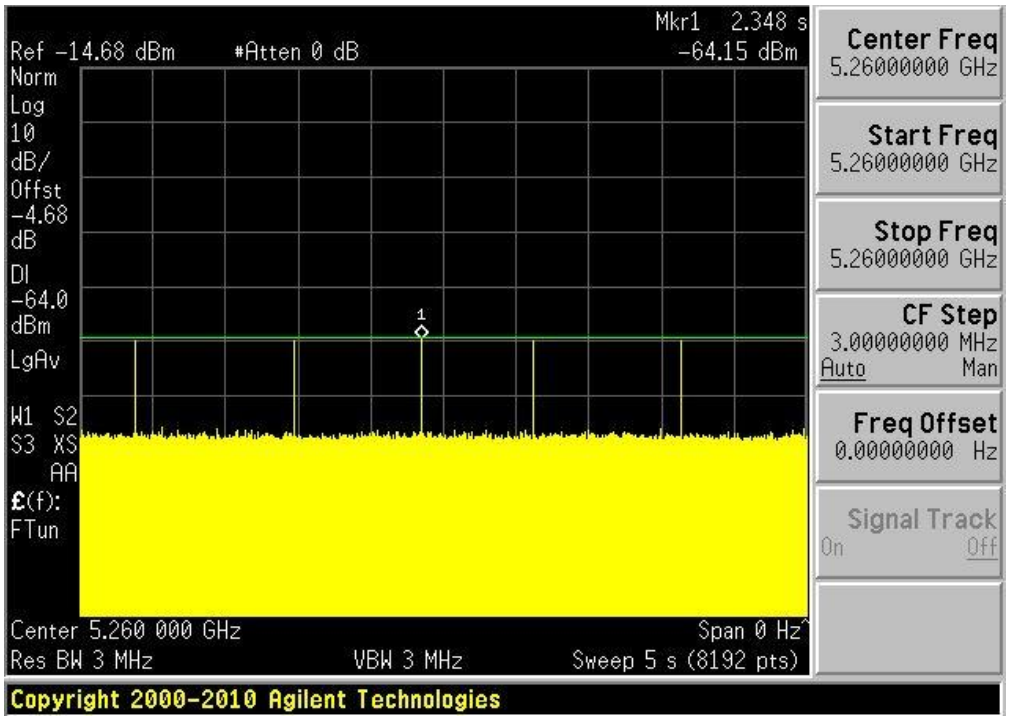
Radar Type 3



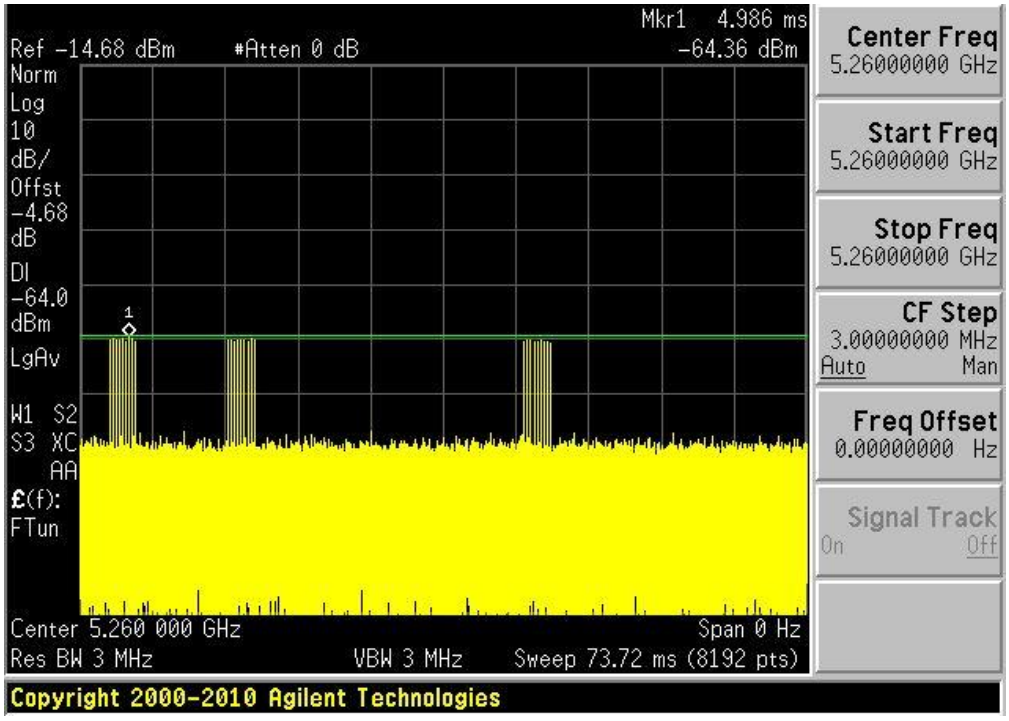
Radar Type 4



Radar Type 5

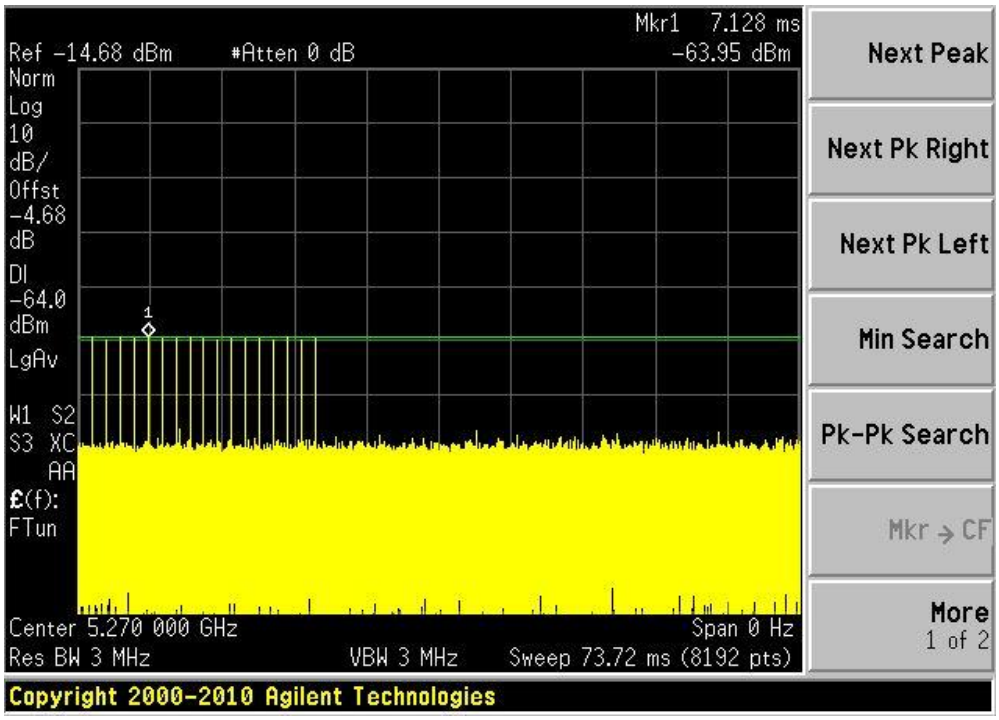


Radar Type 6

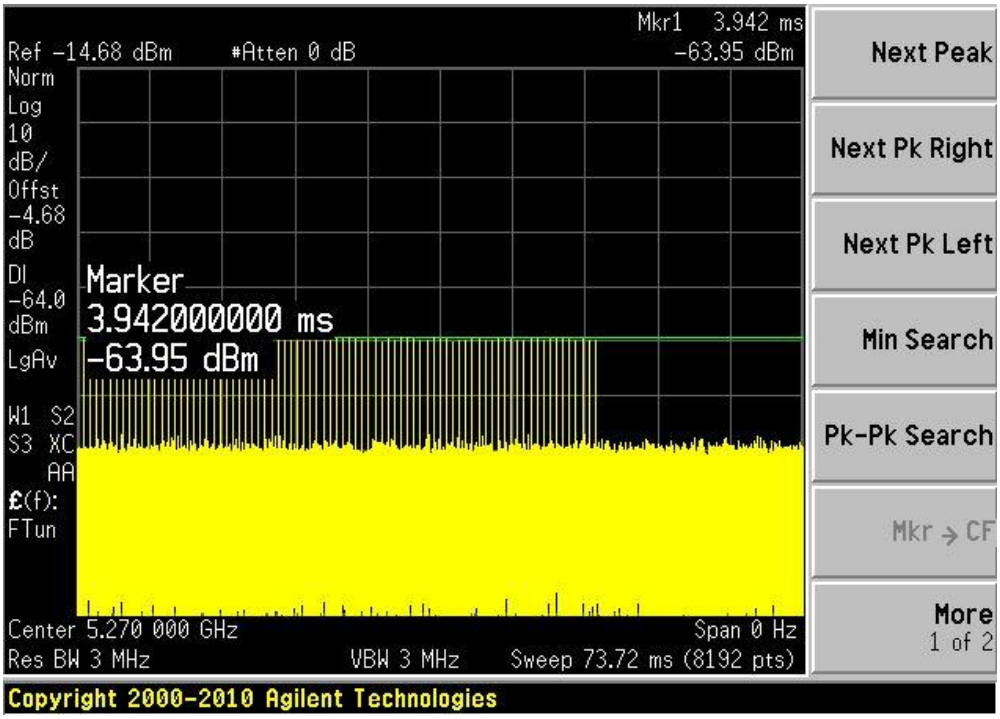


5270 MHz

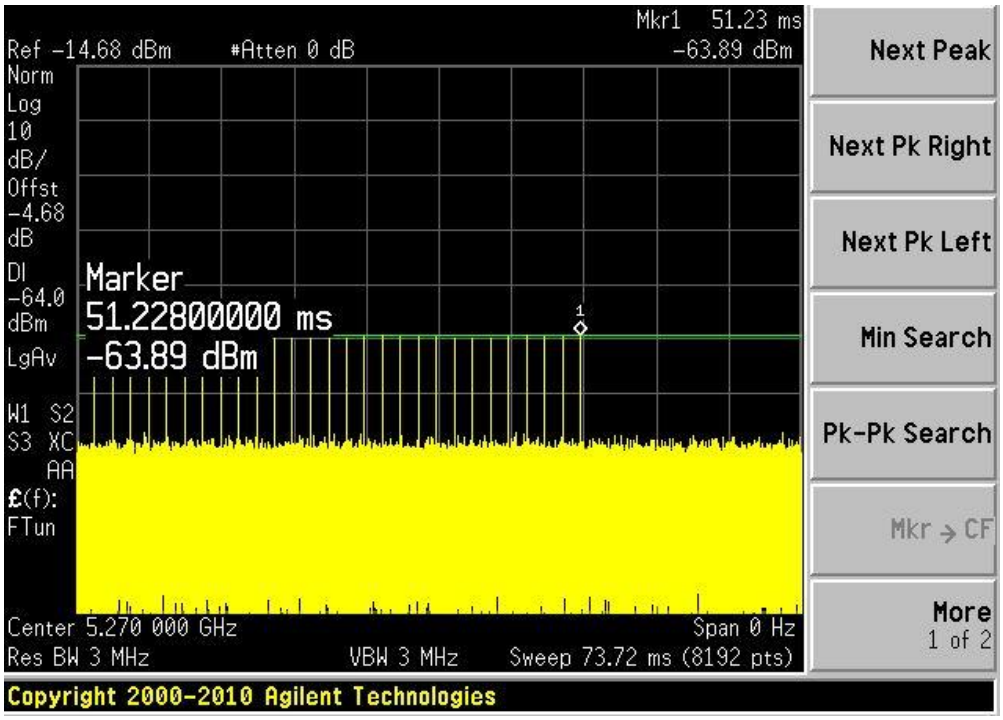
Radar Type 0



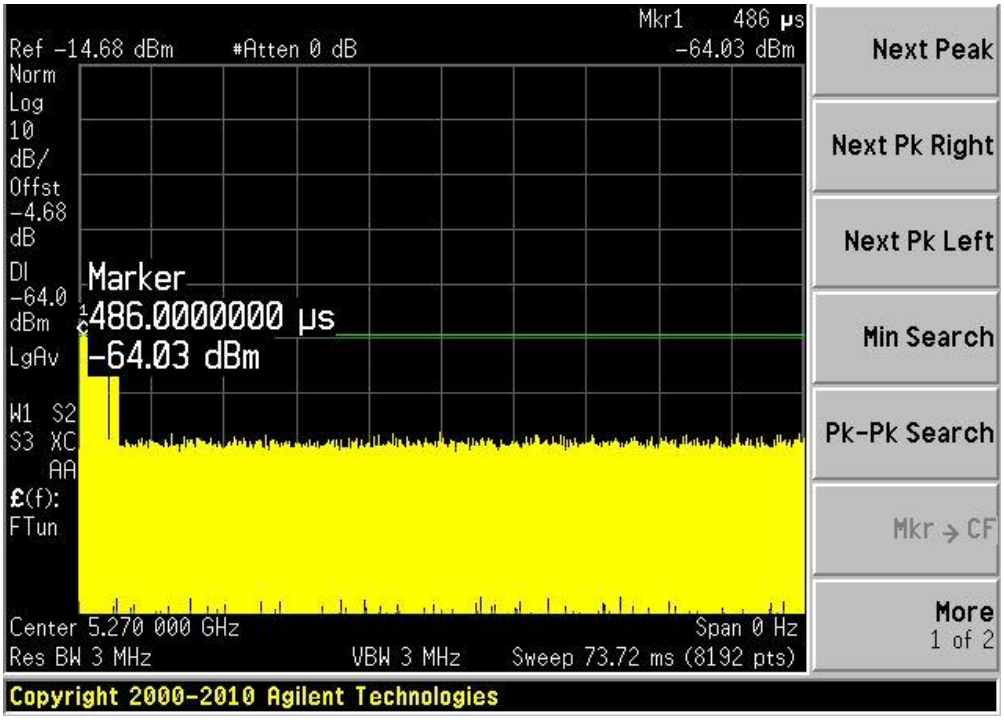
Radar Type 1A



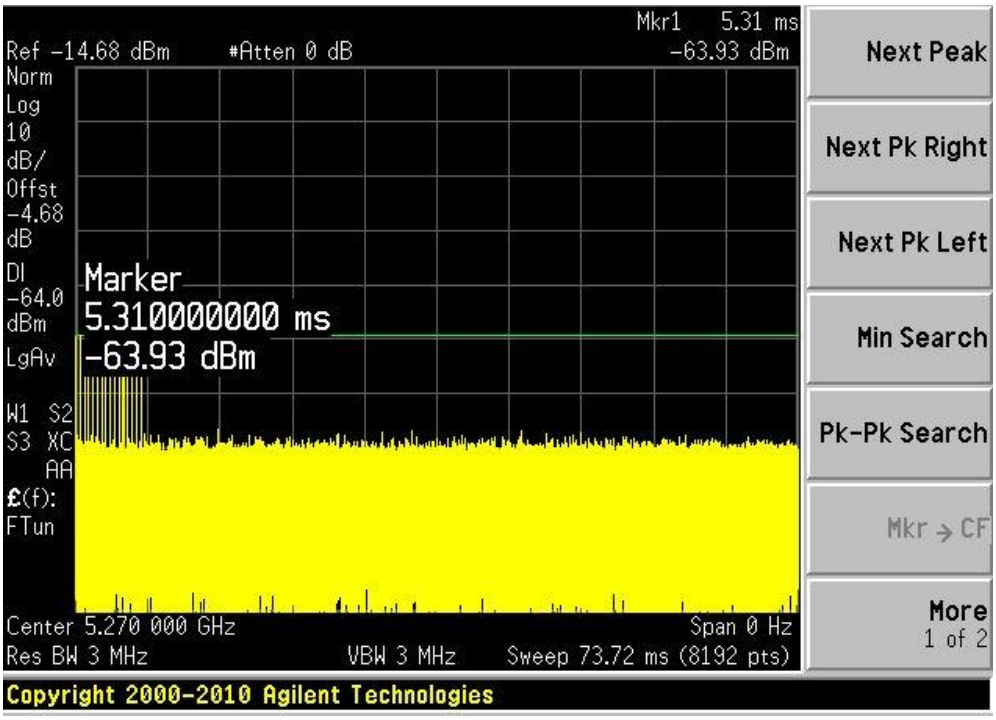
Radar Type 1B



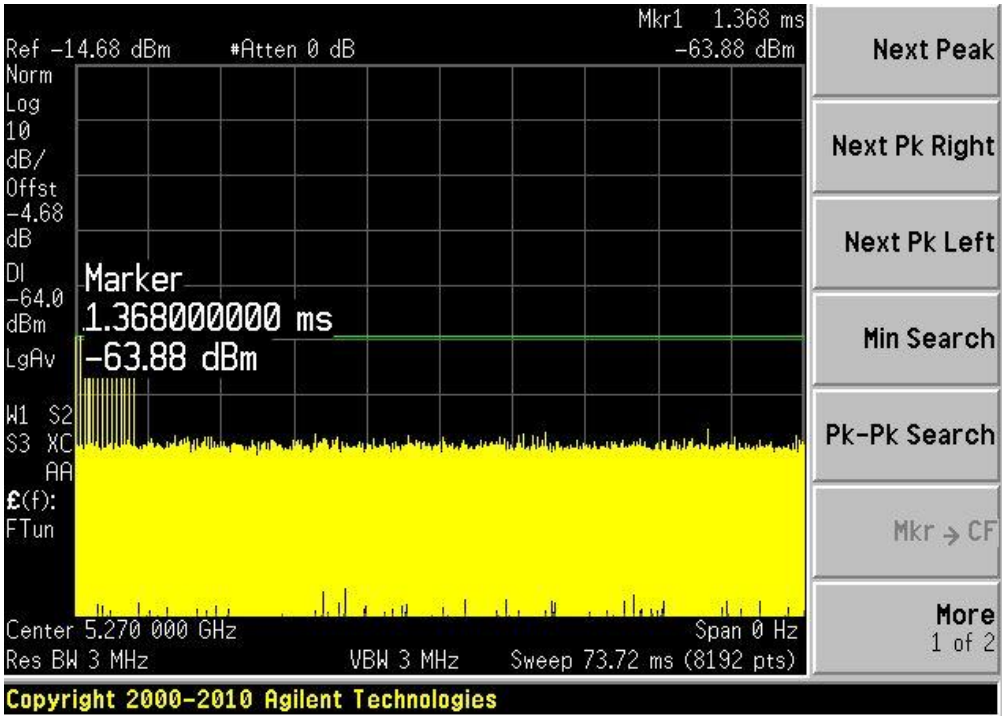
Radar Type 2



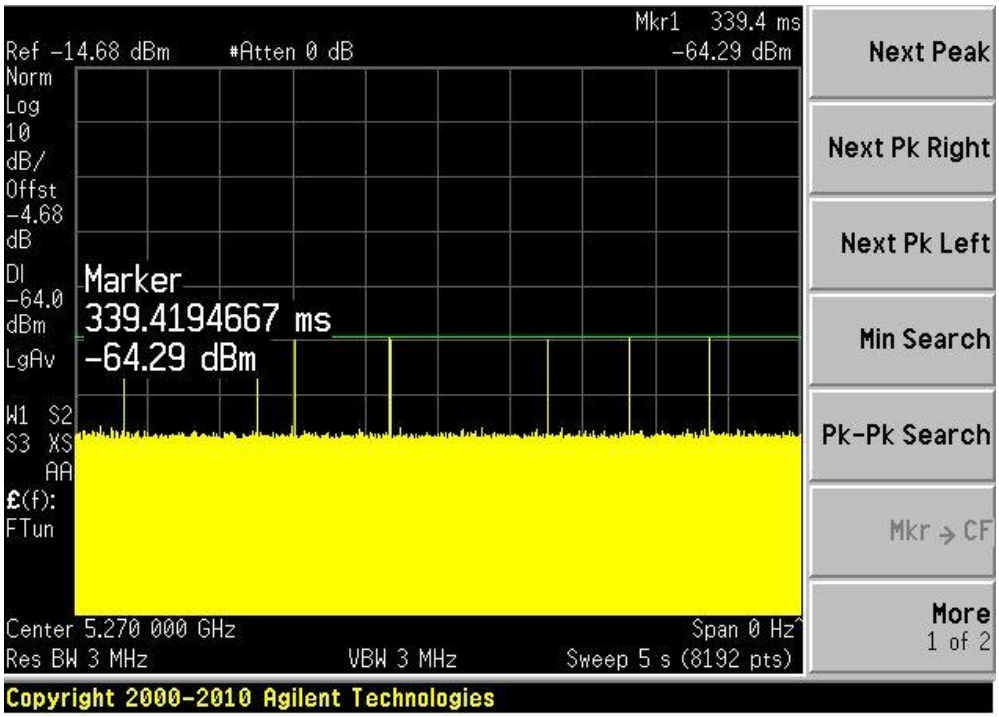
Radar Type 3



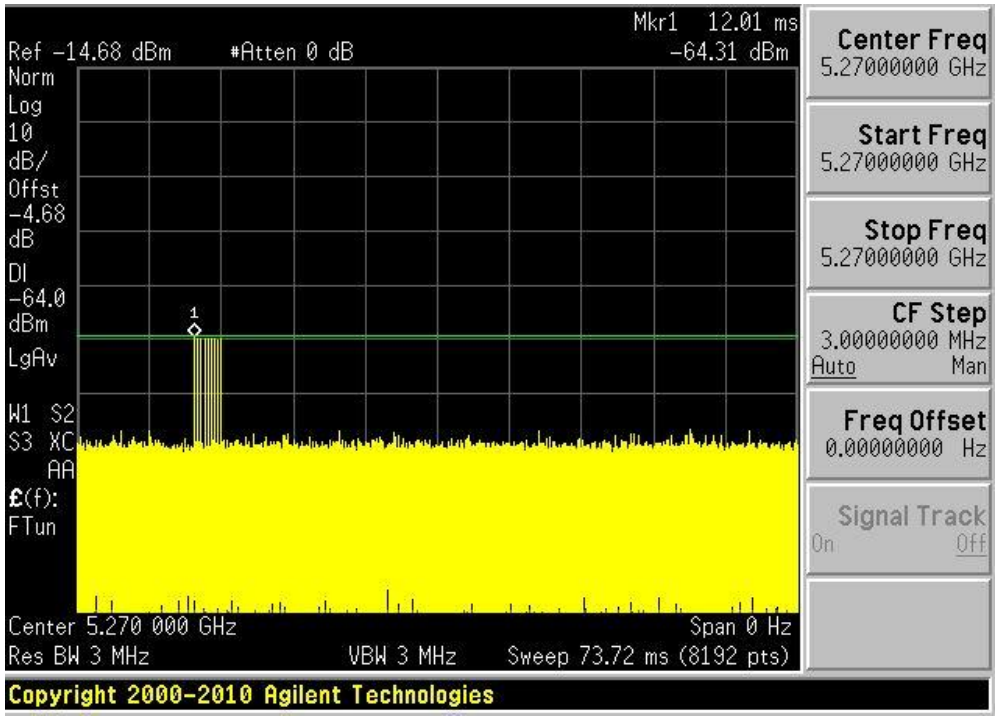
Radar Type 4



Radar Type 5

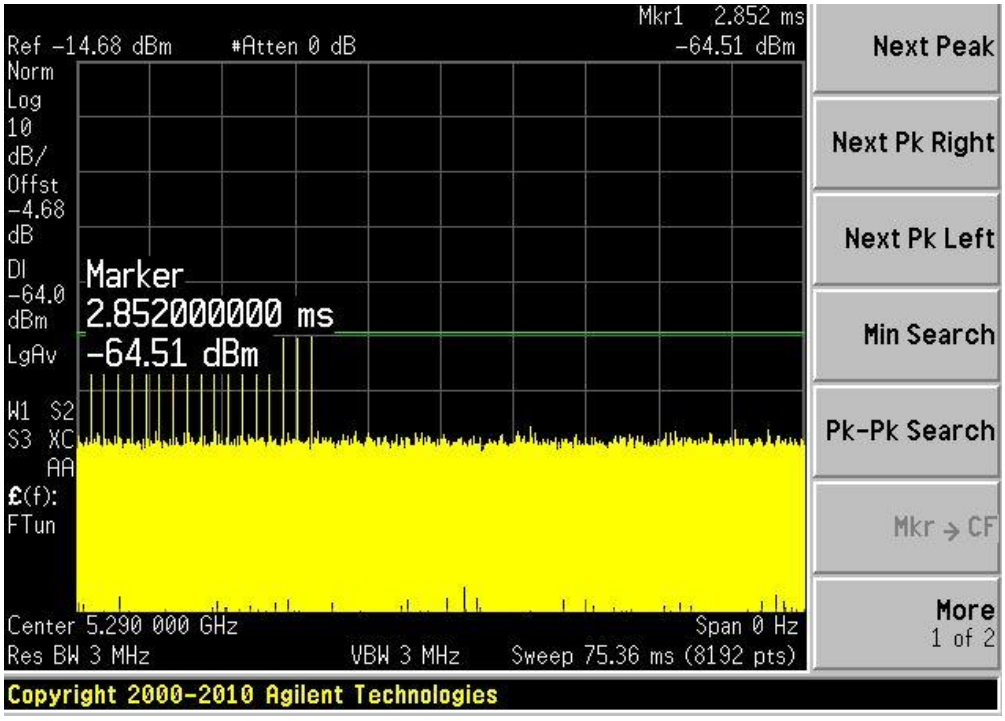


Radar Type 6

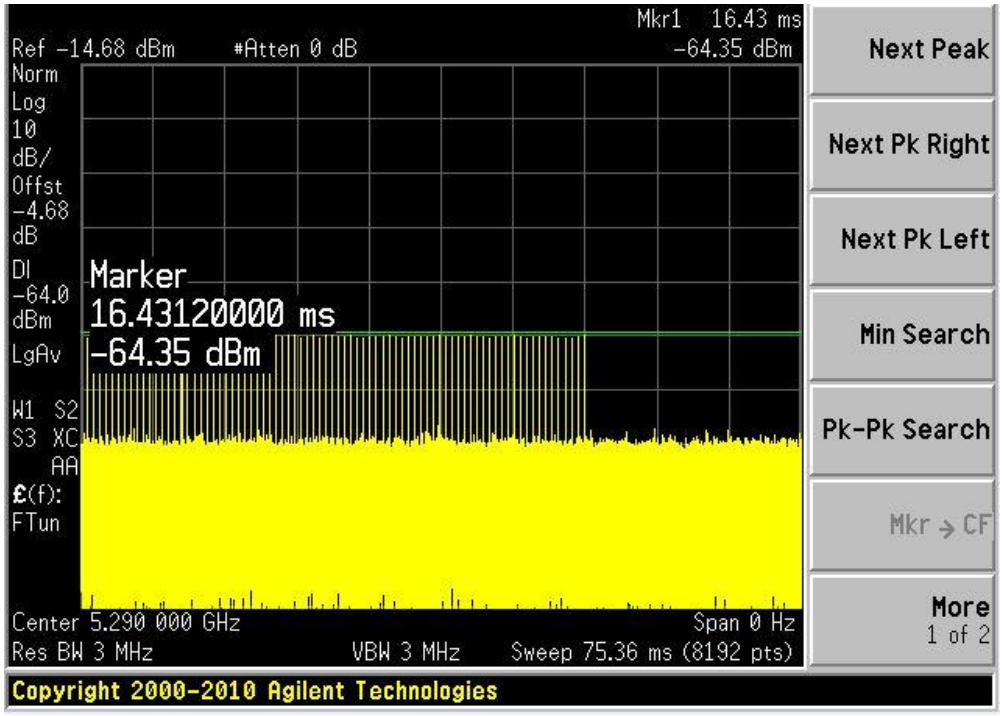


5290 MHz

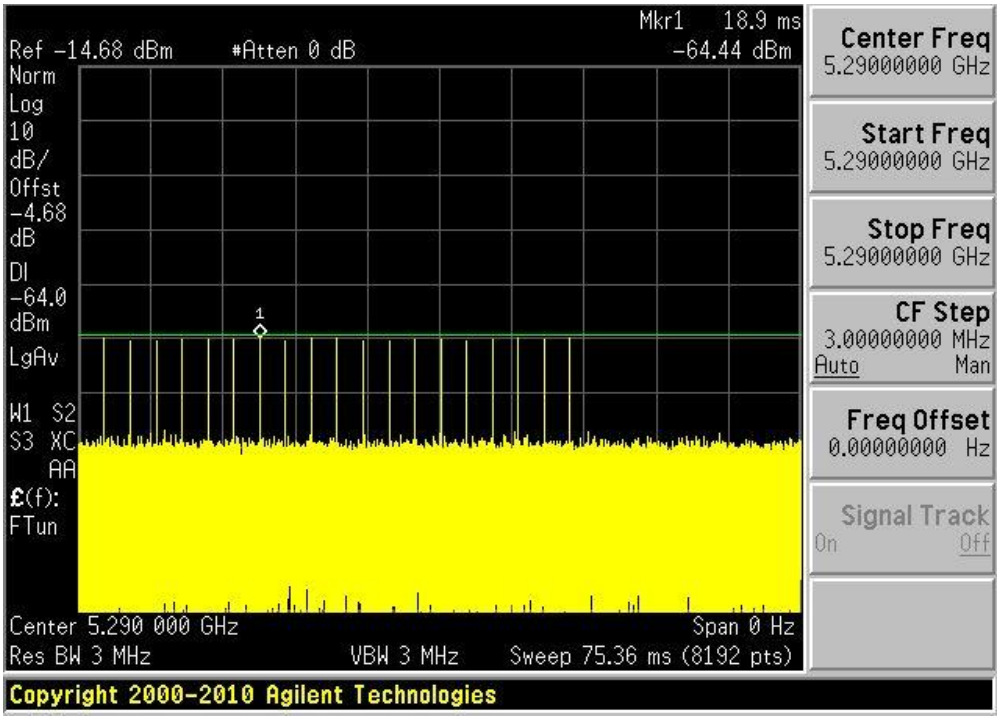
Radar Type 0



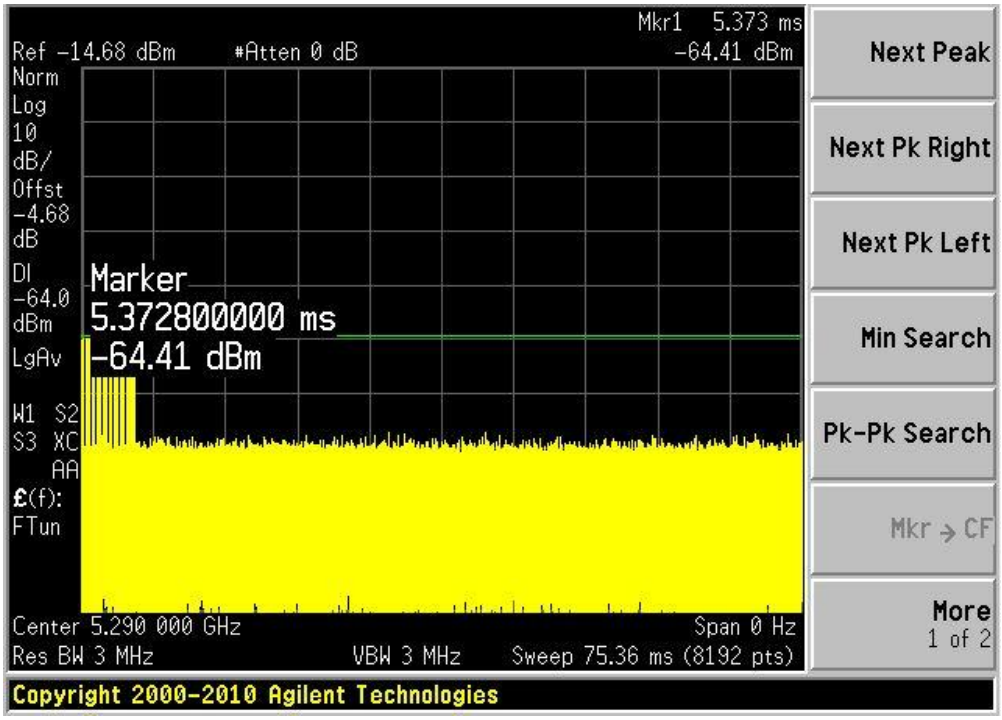
Radar Type 1A



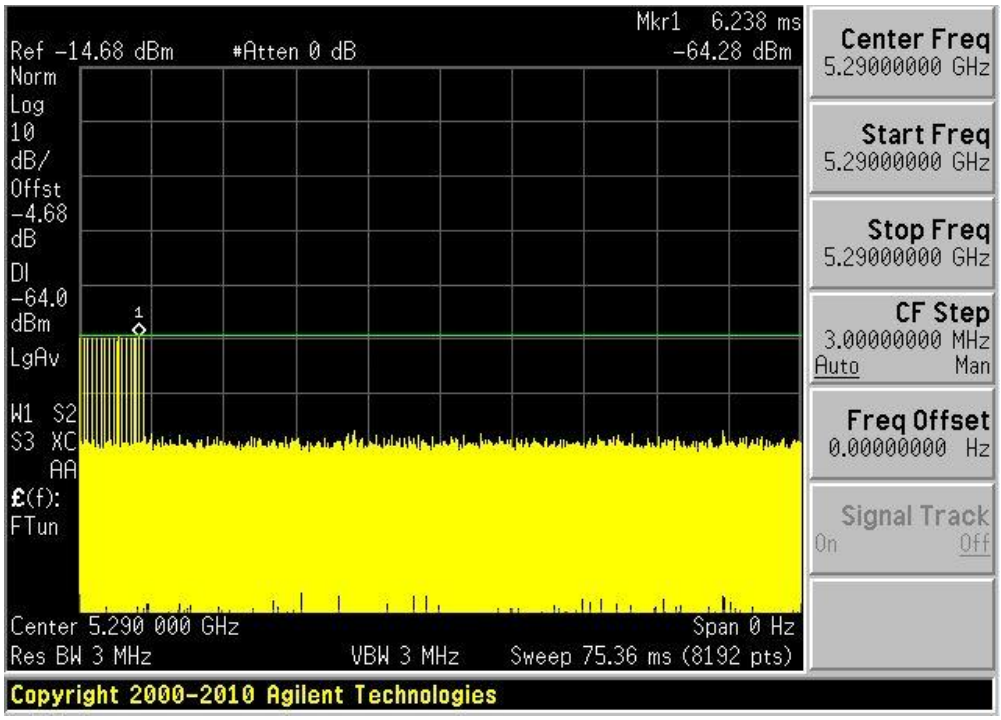
Radar Type 1B



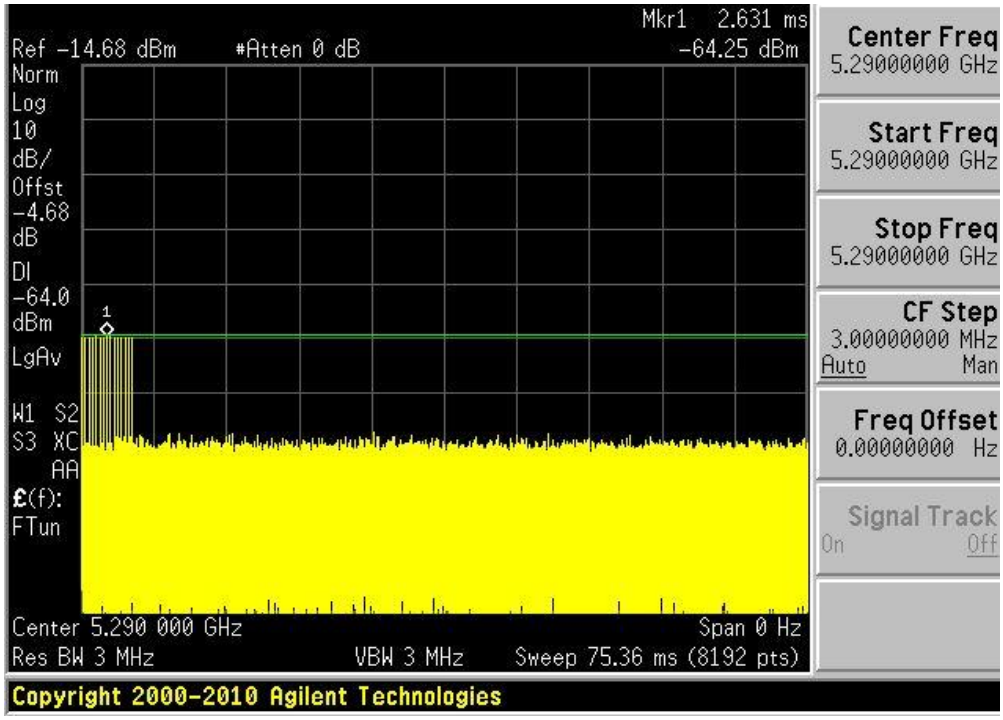
Radar Type 2



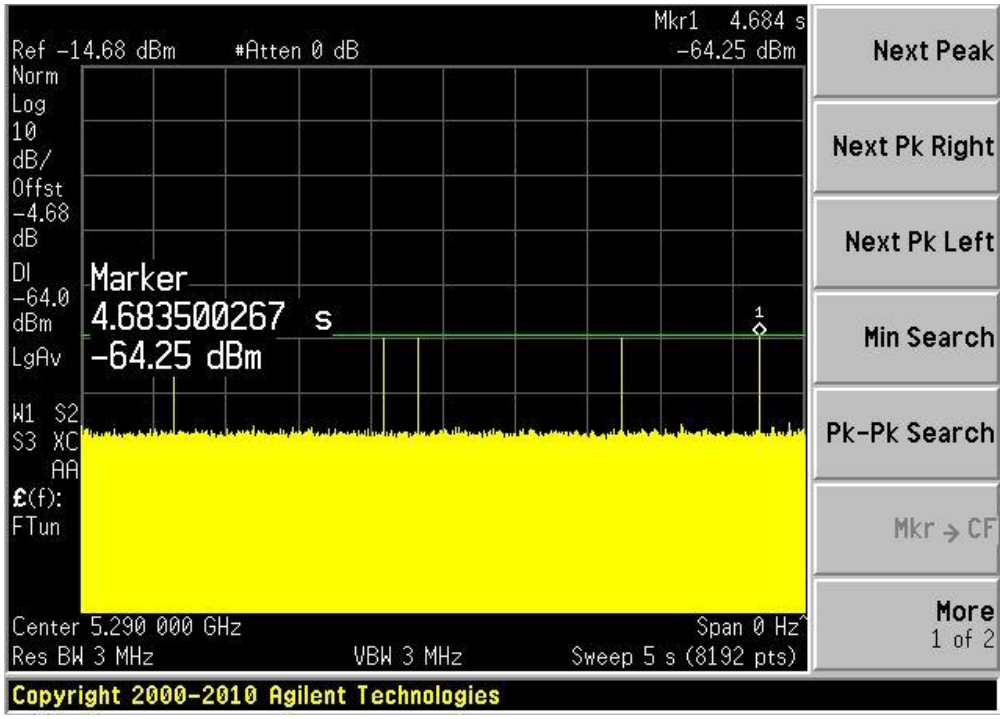
Radar Type 3



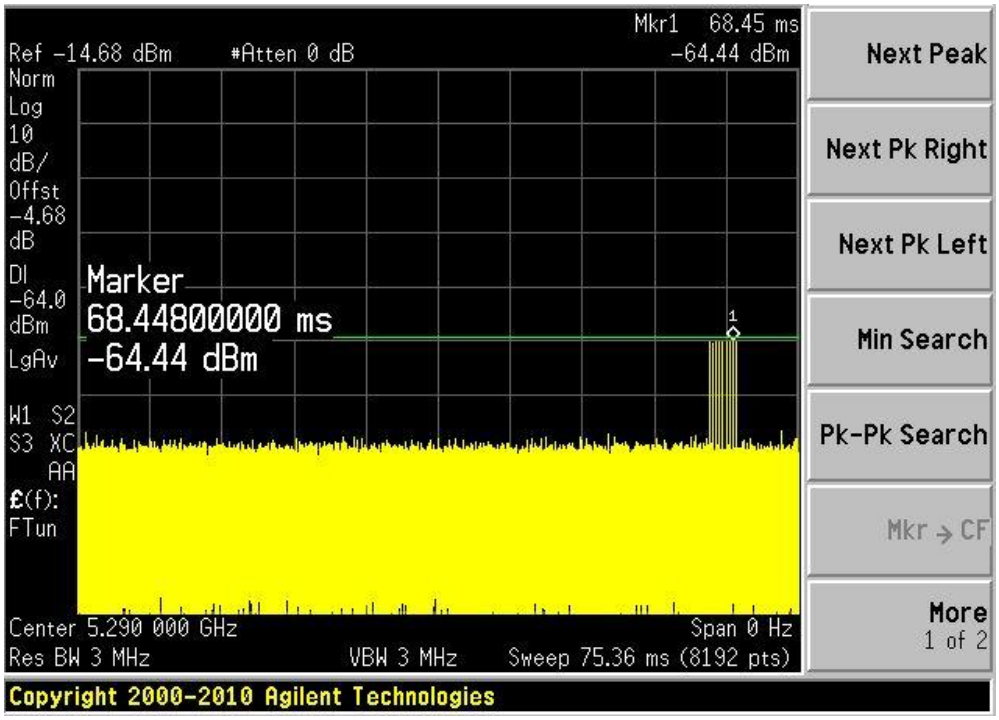
Radar Type 4



Radar Type 5

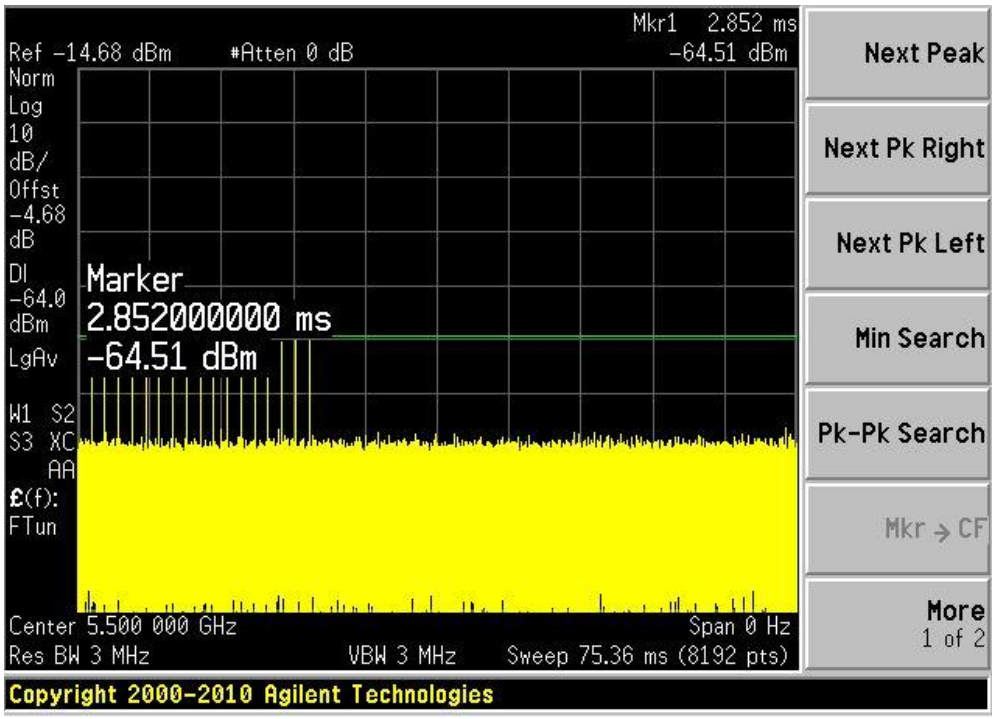


Radar Type 6

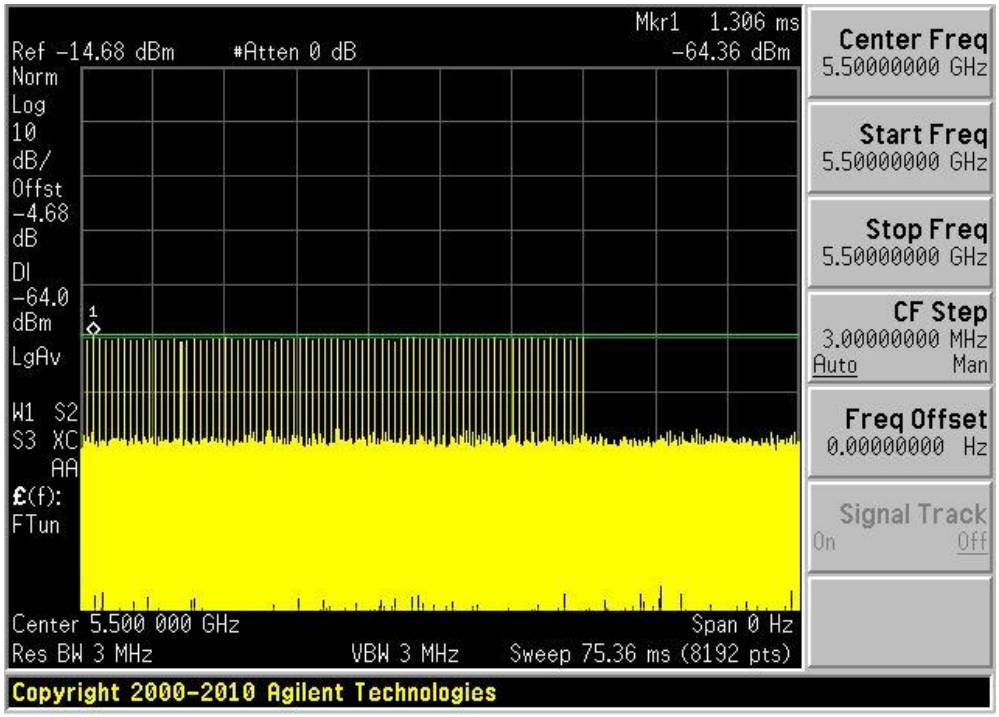


5500 MHz

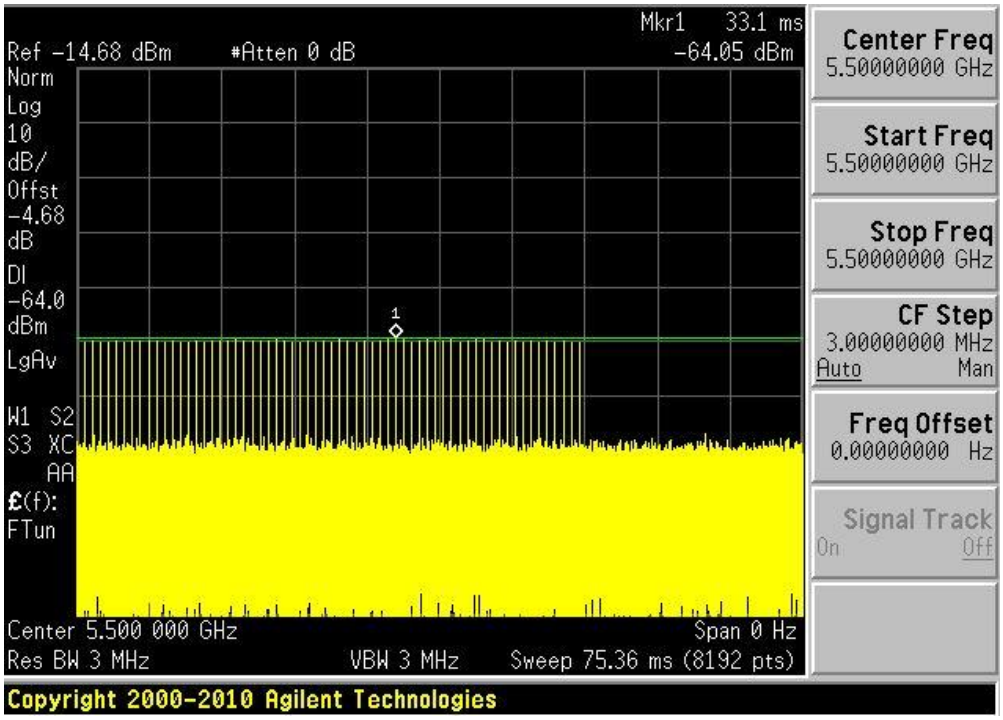
Radar Type 0



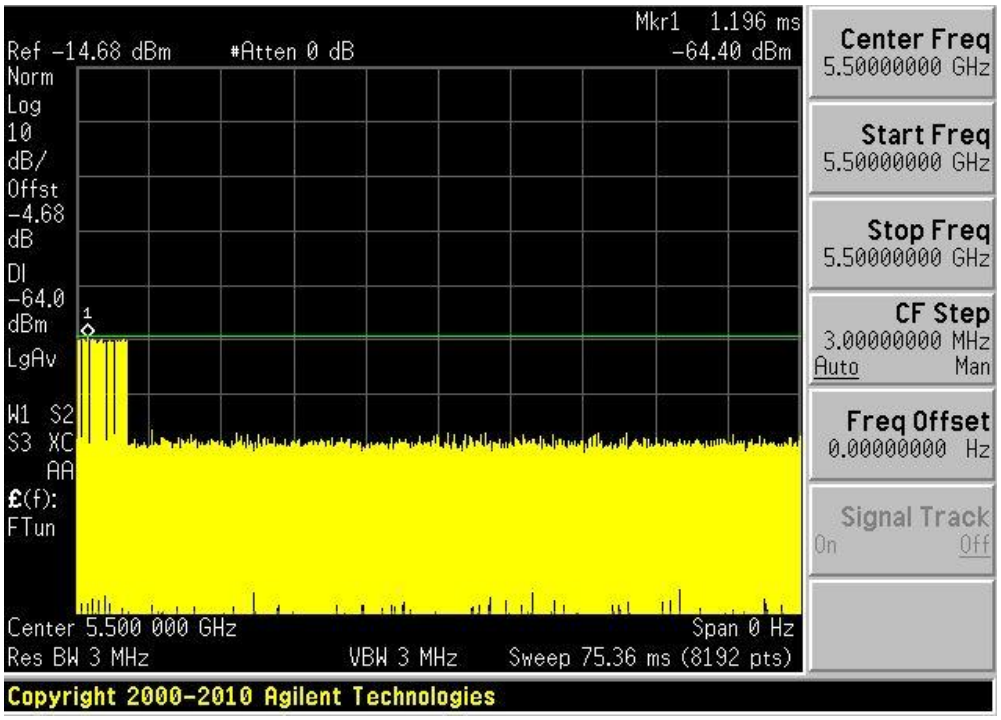
Radar Type 1A



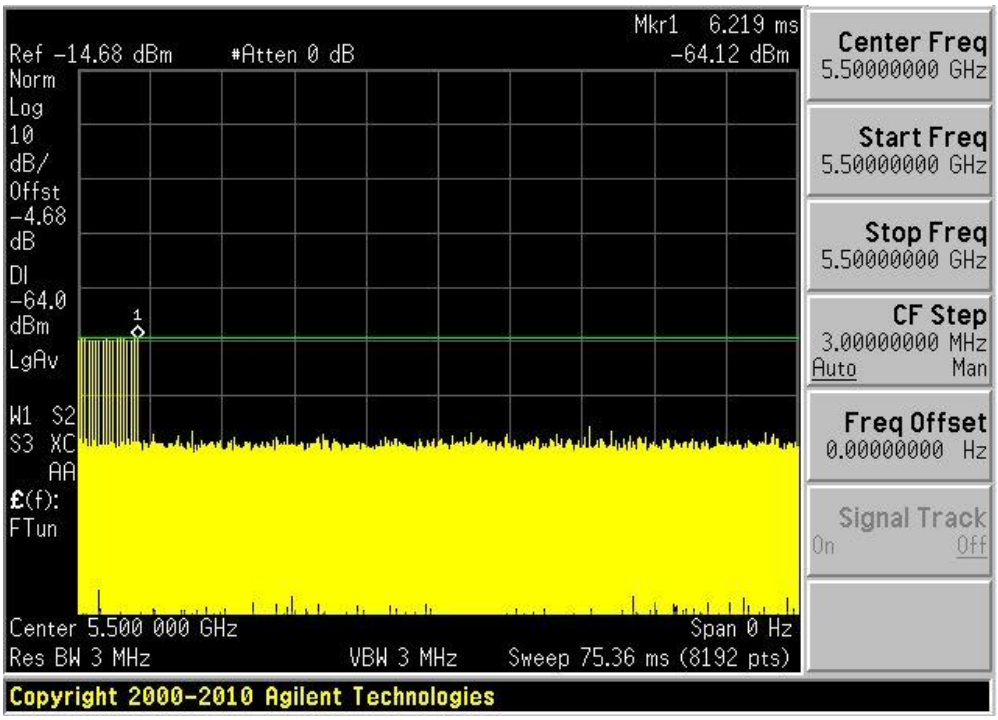
Radar Type 1B



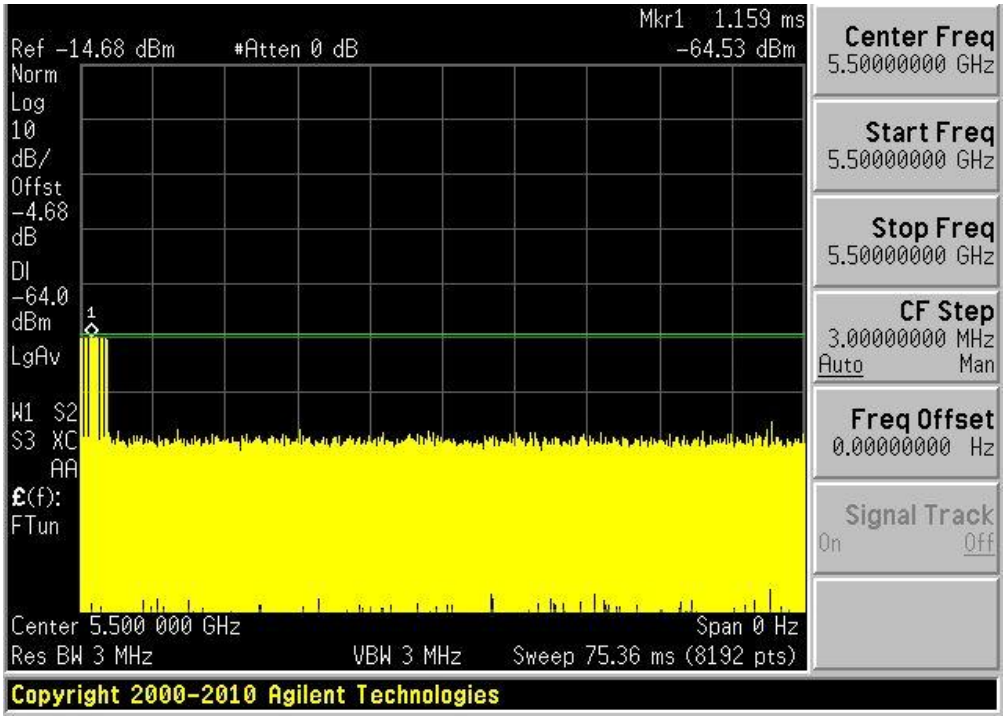
Radar Type 2



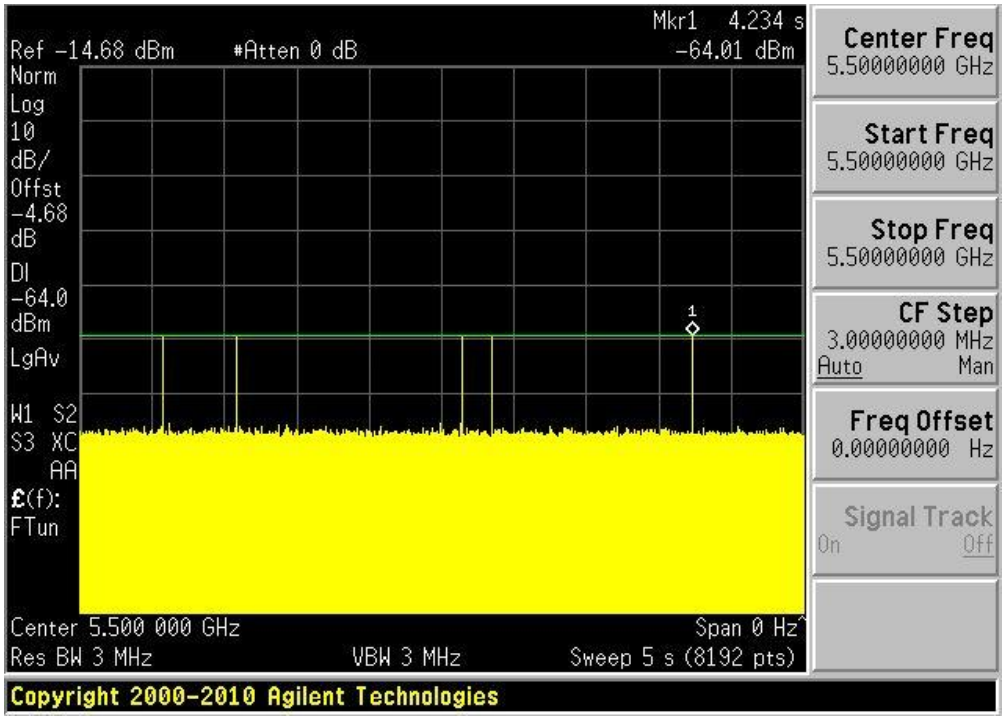
Radar Type 3



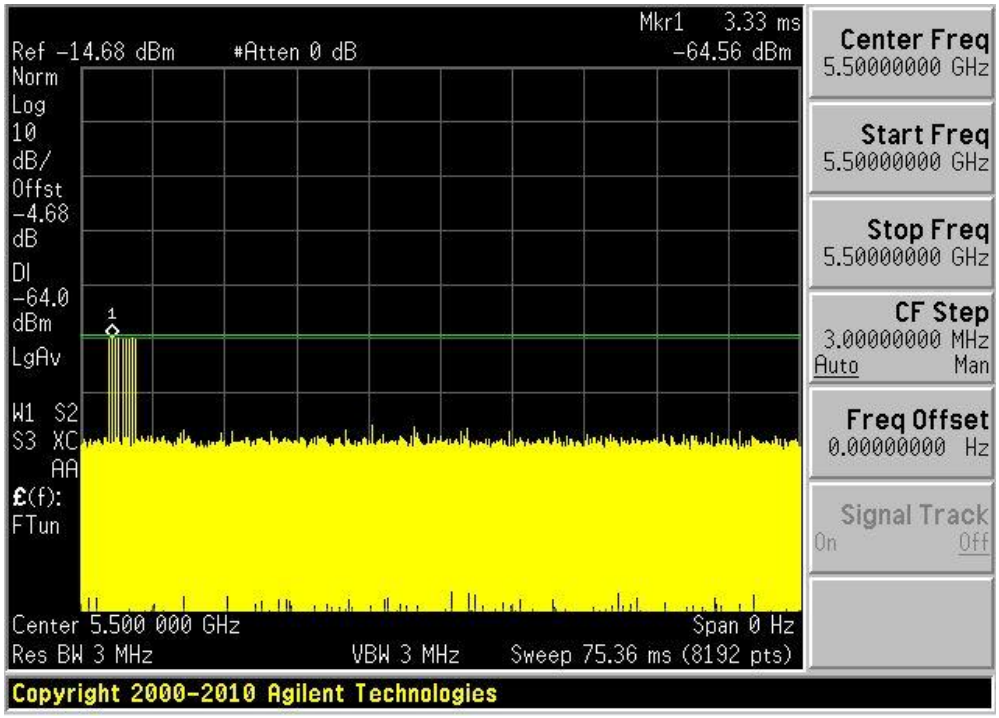
Radar Type 4



Radar Type 5

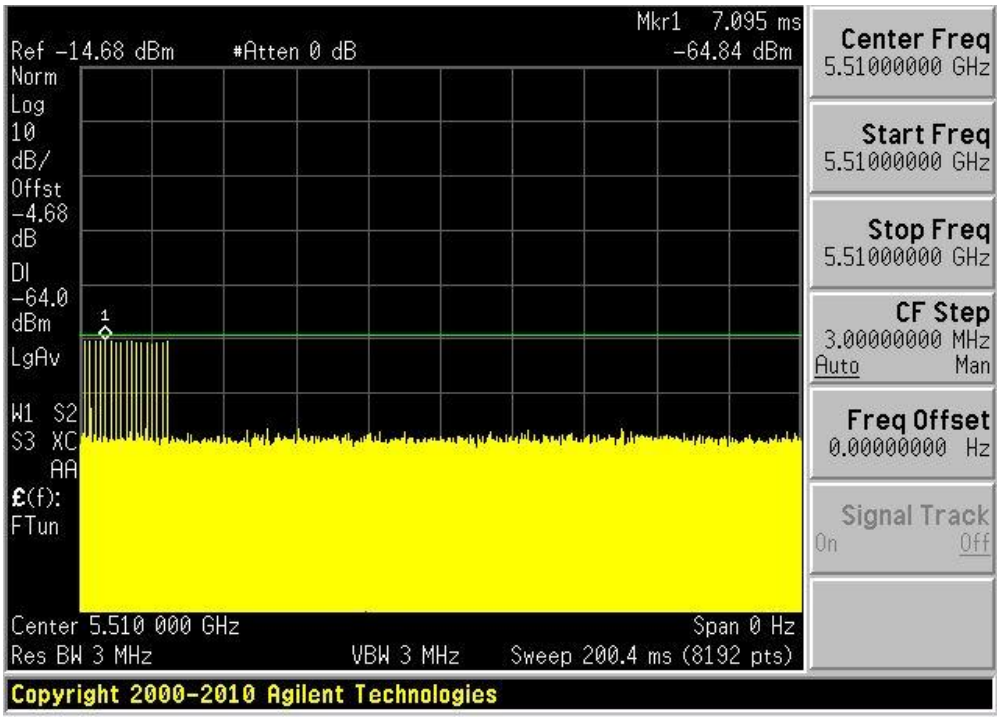


Radar Type 6

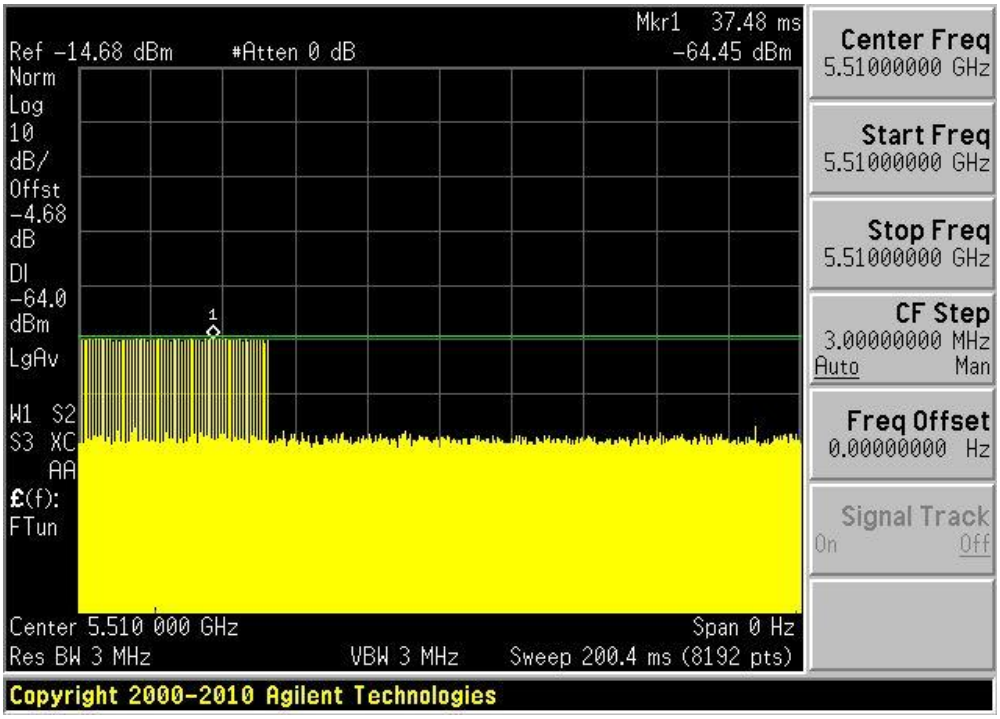


5510 MHz

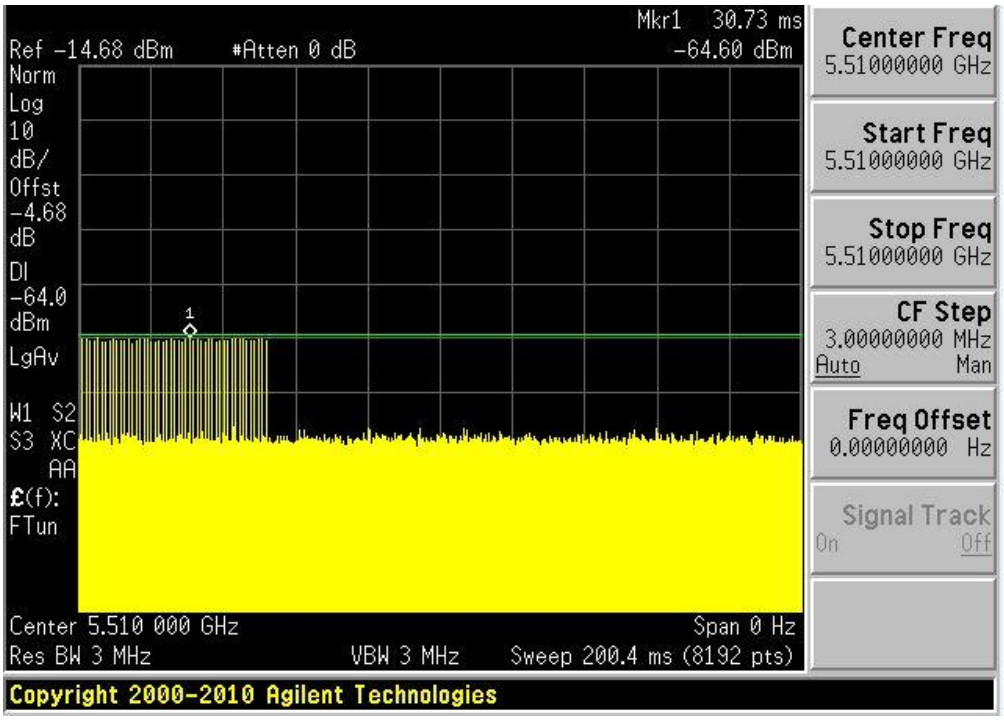
Radar Type 0



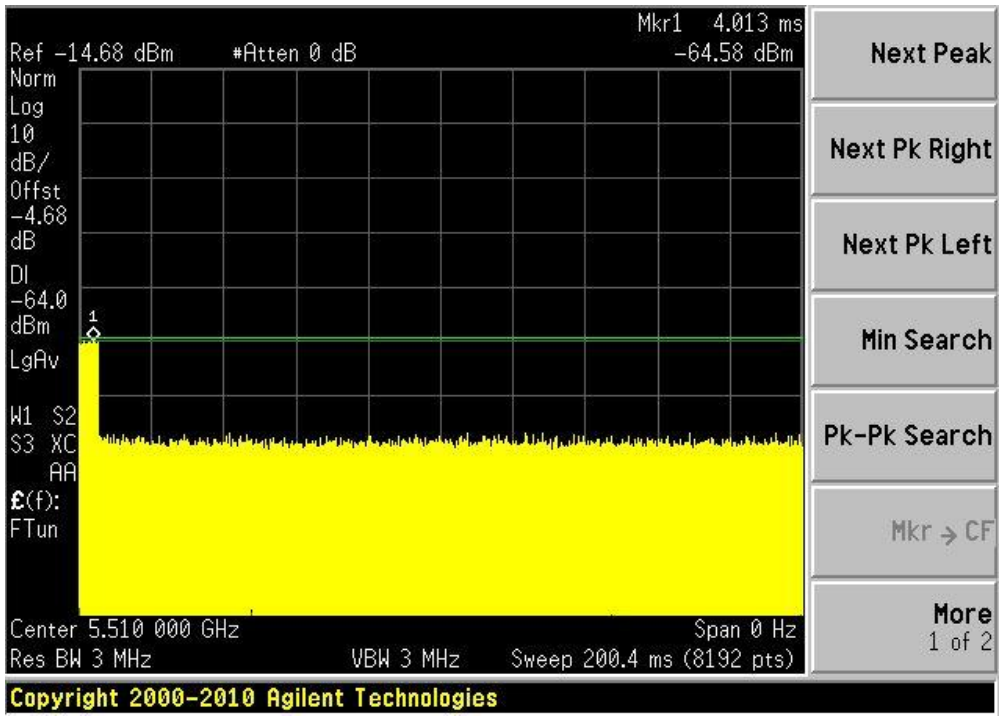
Radar Type 1A



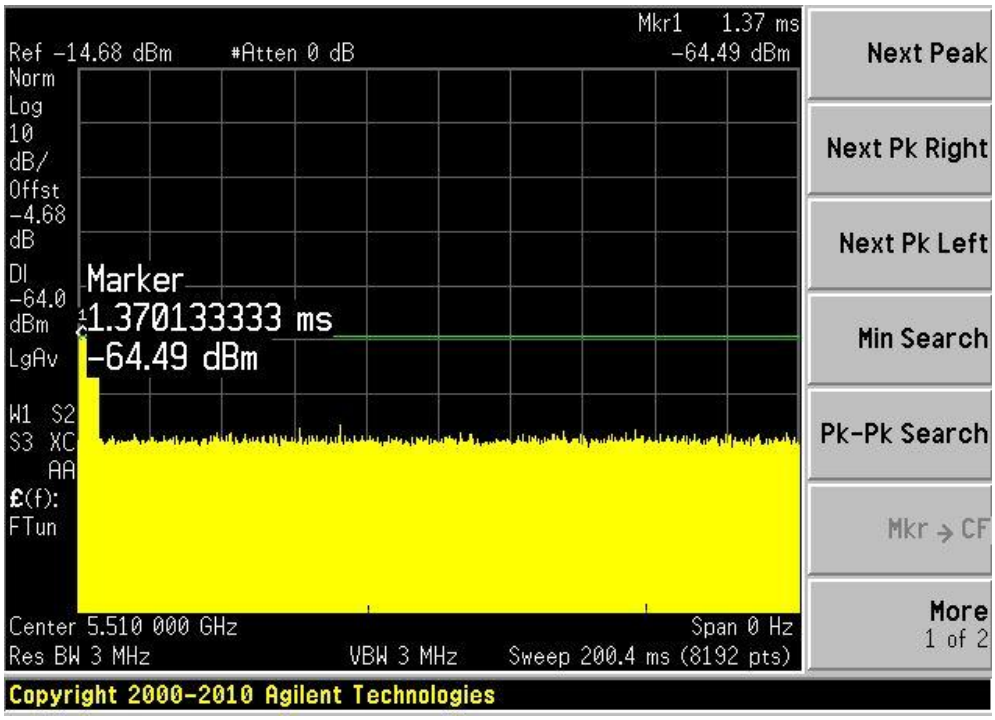
Radar Type 1B



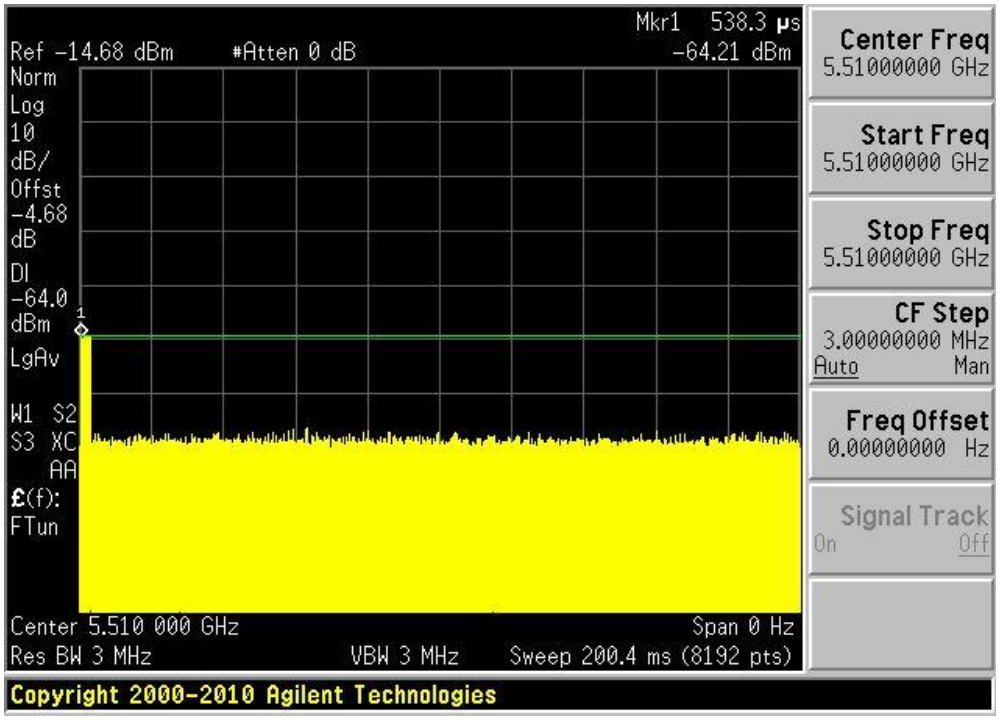
Radar Type 2



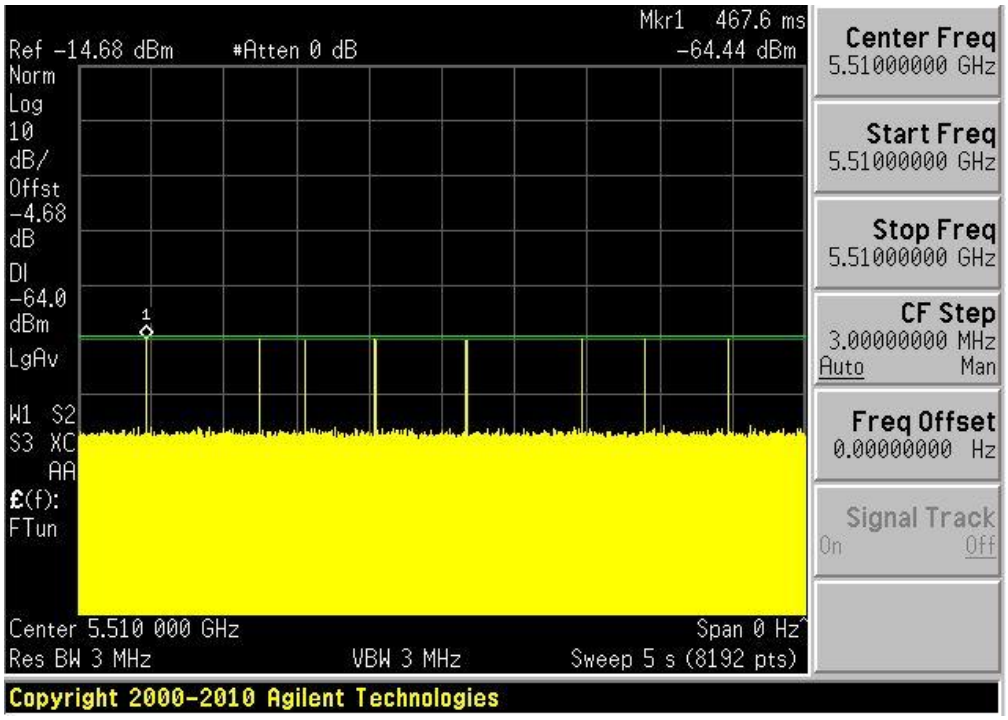
Radar Type 3



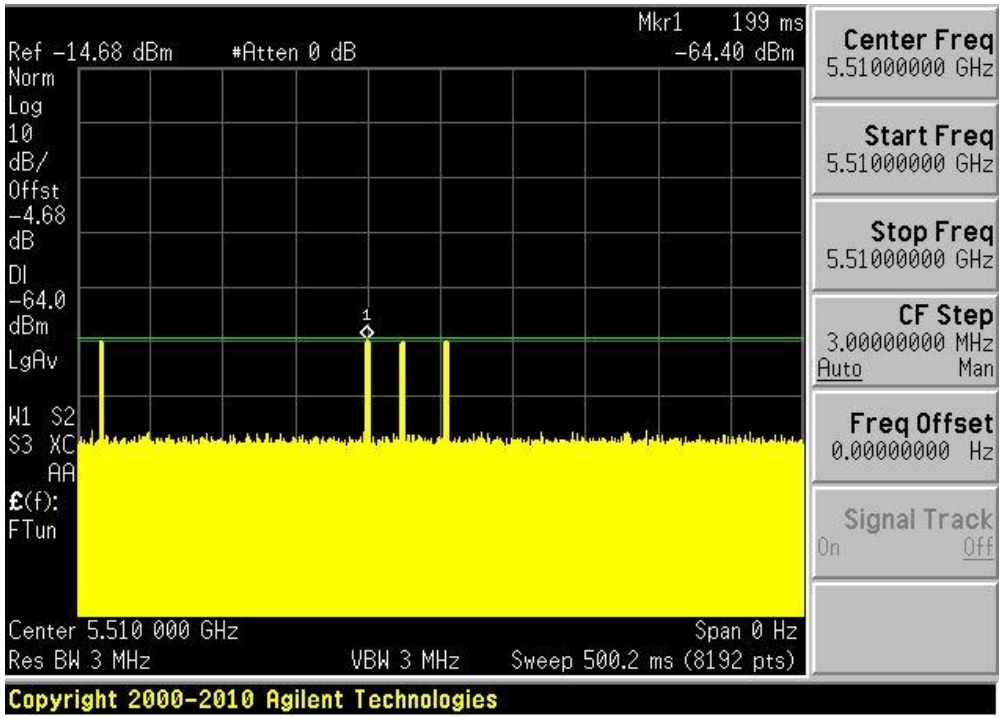
Radar Type 4



Radar Type 5

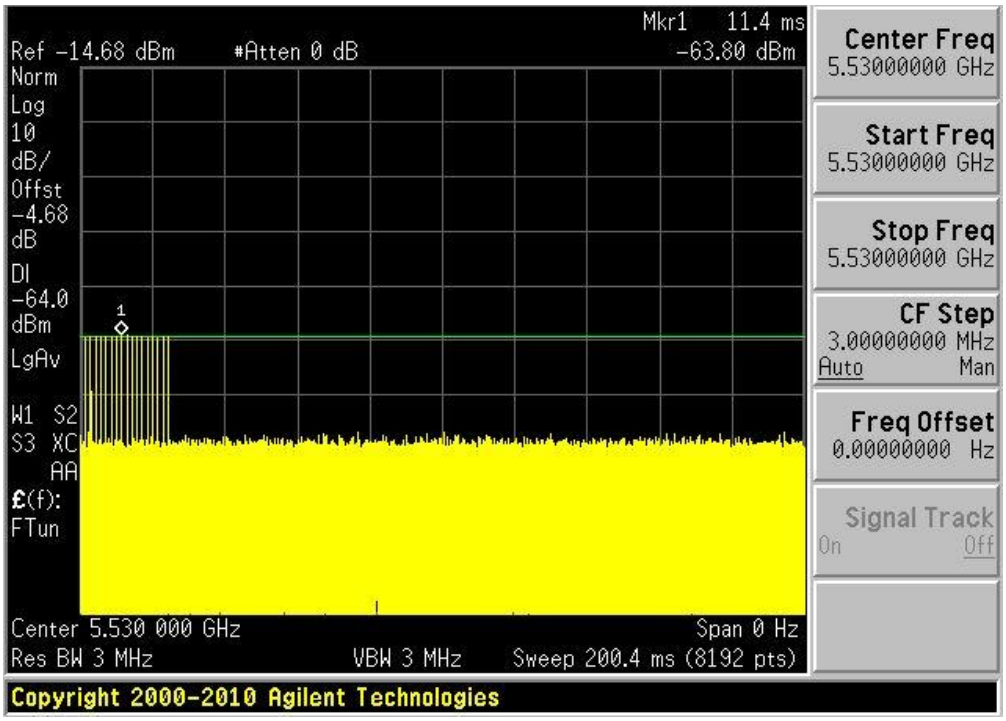


Radar Type 6

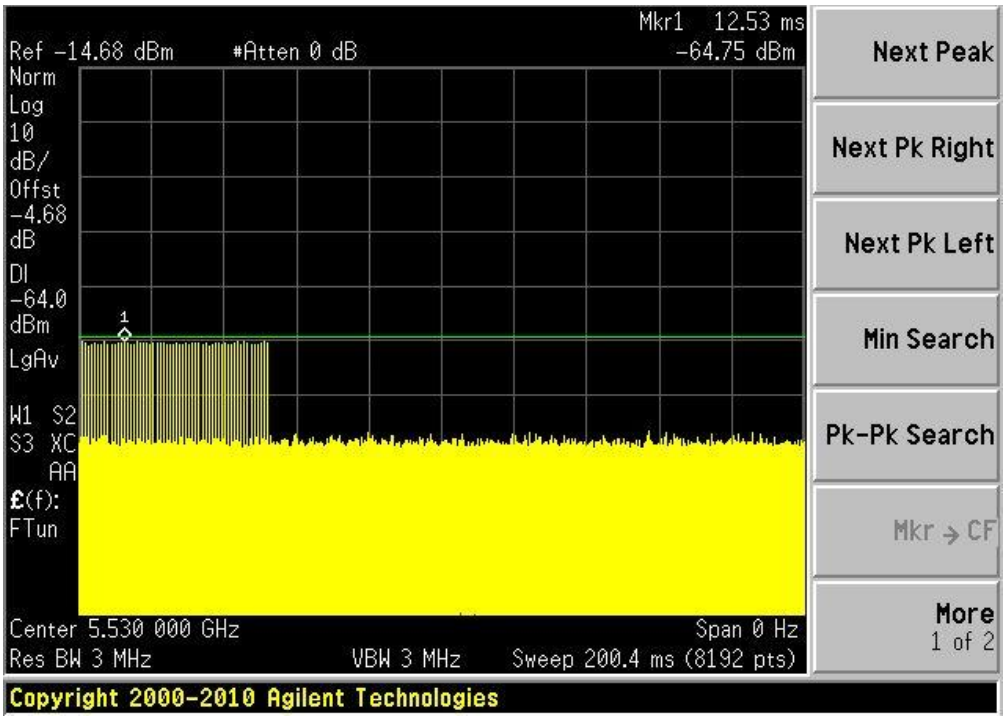


5530 MHz

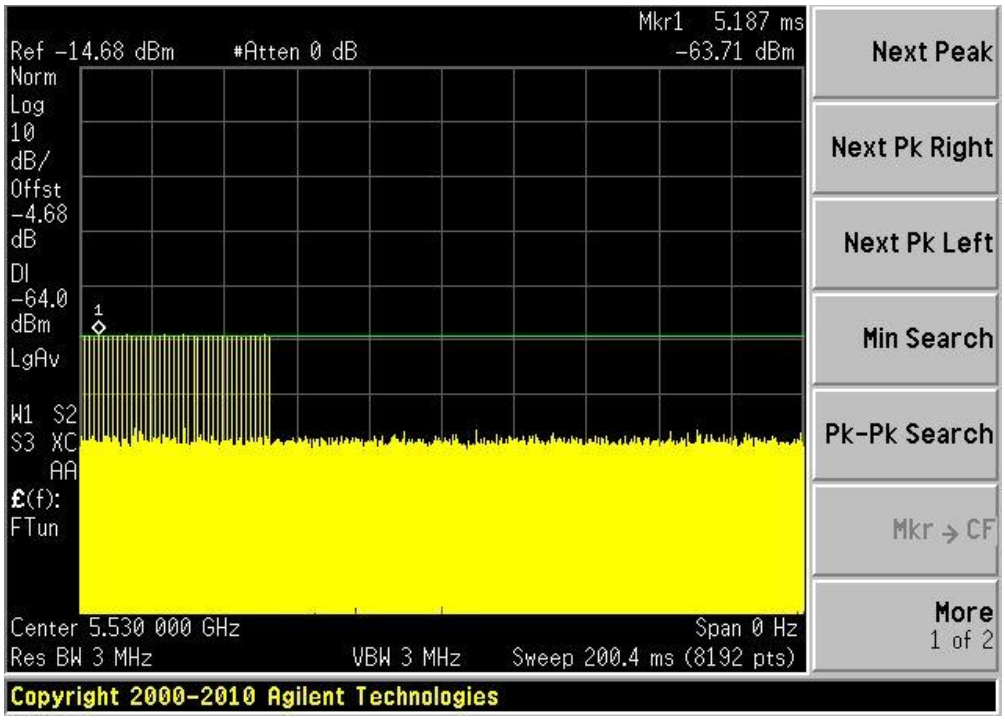
Radar Type 0



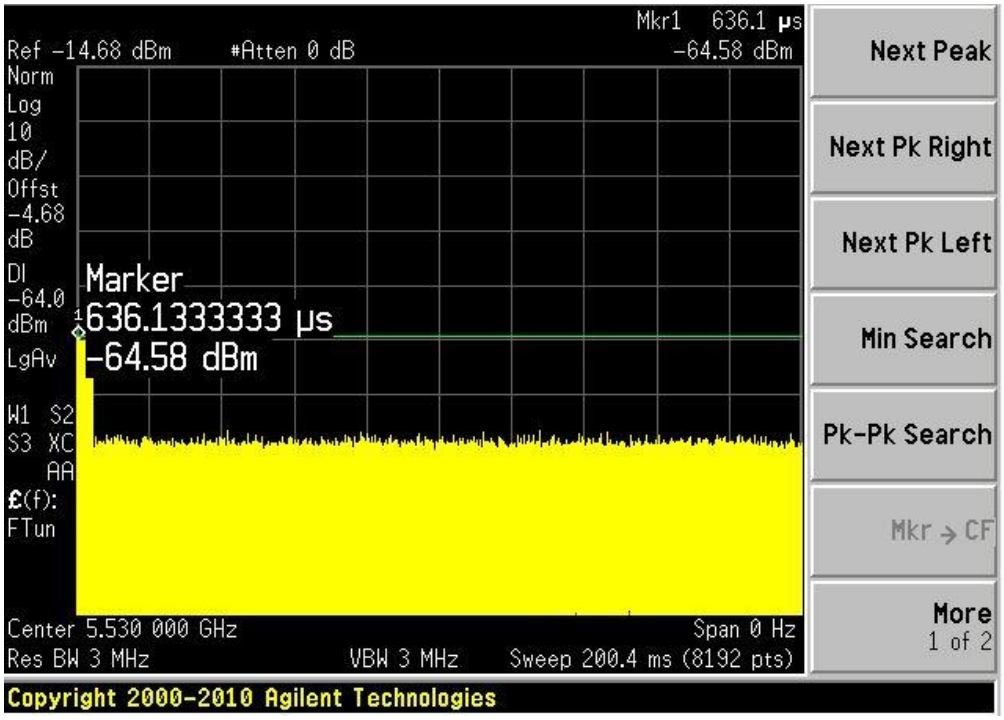
Radar Type 1A



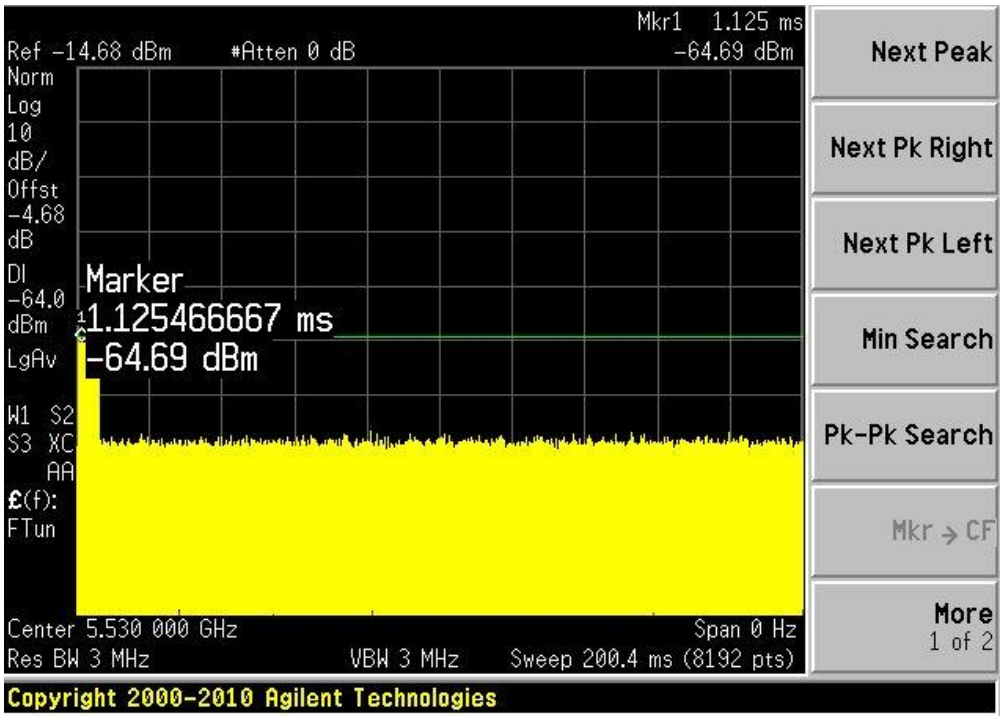
Radar Type 1B



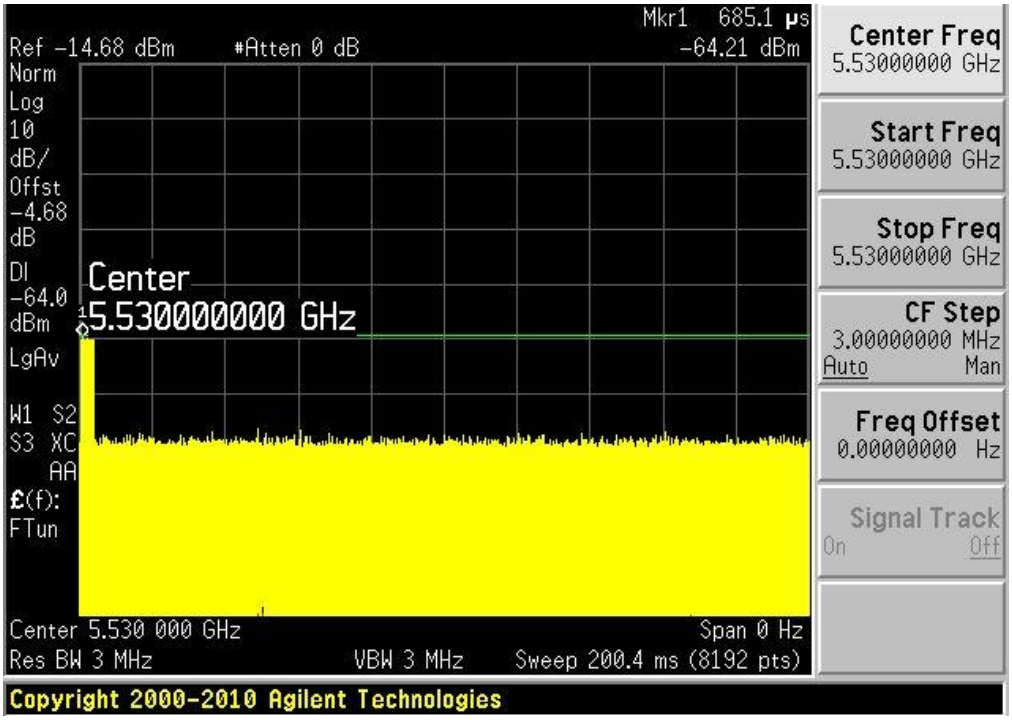
Radar Type 2



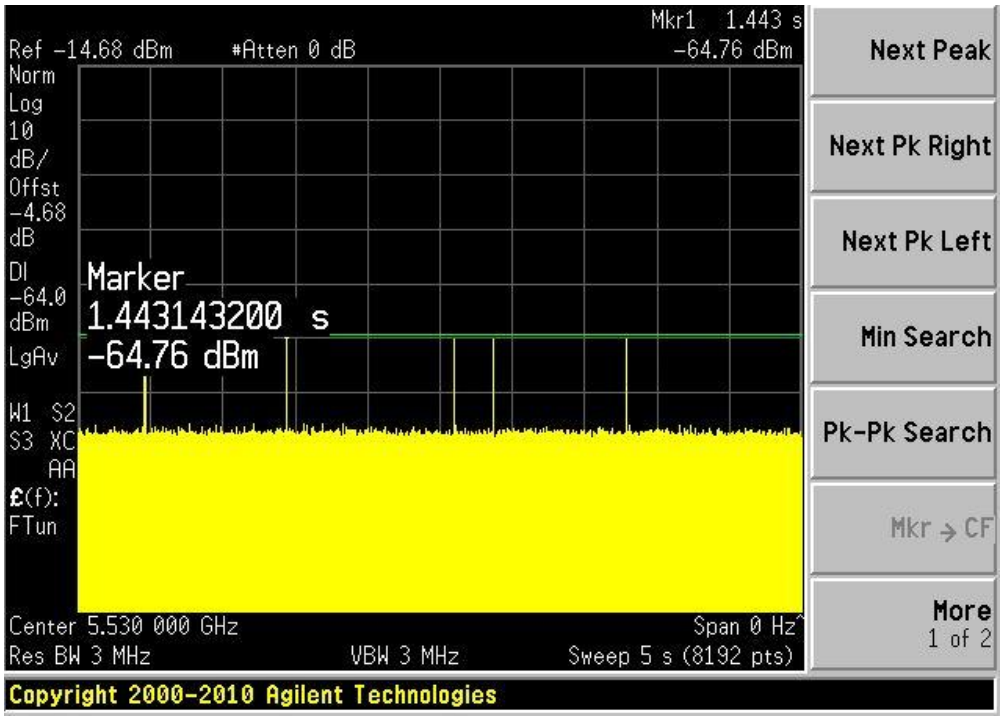
Radar Type 3



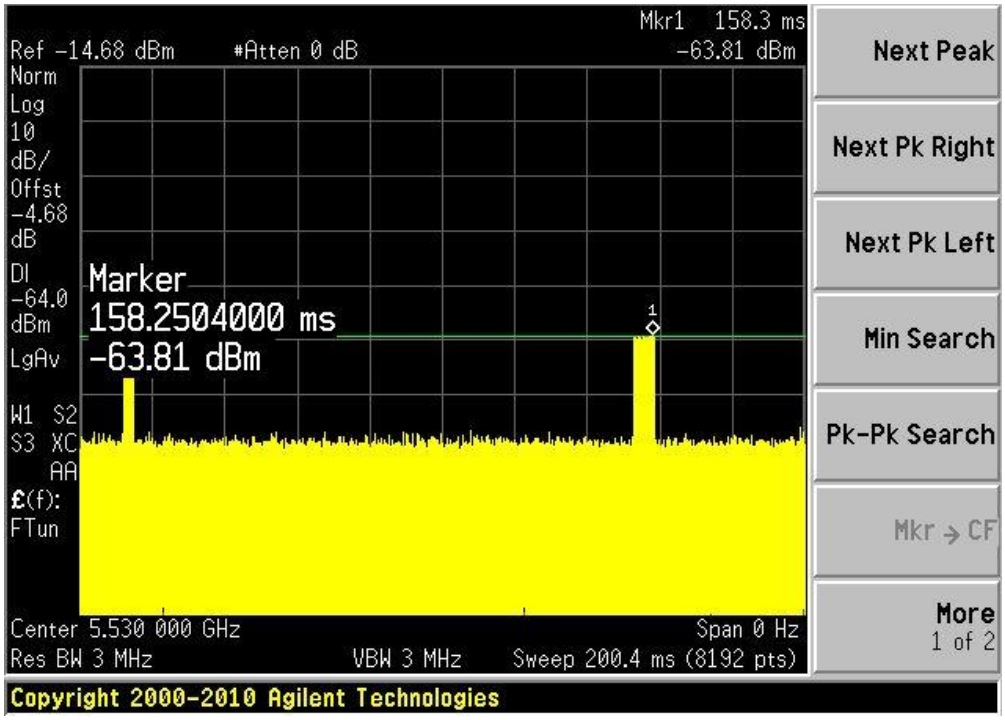
Radar Type 4



Radar Type 5



Radar Type 6



6 Channel Availability Check Time (CAC)

6.1 Test Procedure

1) 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

Note: EUT initial Power-up cycle is vary, this testing was performed with software monitor function that shows the start time of CAC, once the monitor shows the CAC start time, we used the stop watch to keep the accuracy of the testing.

For example:

Meru Operating System

[77.950000] wl1 - ### CAC STARTS ###
[149.470000] wl1 - ### CAC RESET ###

CAC starts 77.95 s
CAC expire 149.47 s
Total CAC 71.52s

Fortinet Operating System

Total CAC 61s

Results:

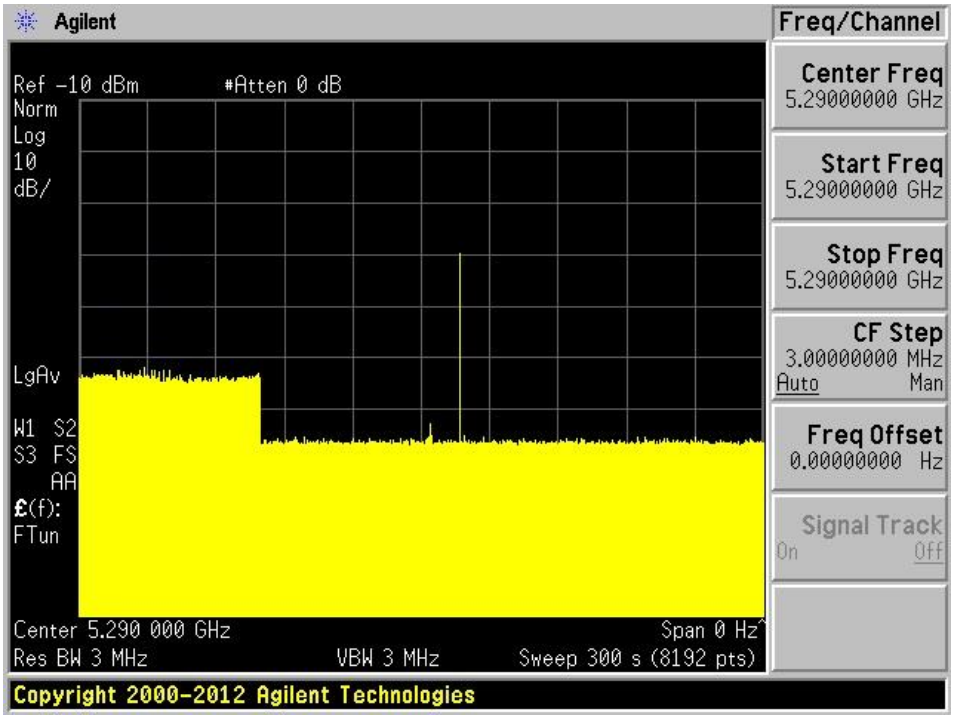
Timing of Radar Burst	Spectrum Analyzer Display	Result
No Radar Triggered	Transmission begin after power-up cycle +61/71 seconds CAC	Pass
Within 6 seconds of the CAC starting	No transmission	Pass
Within the last 6 seconds of the CAC	No transmission	Pass

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

5290 MHz

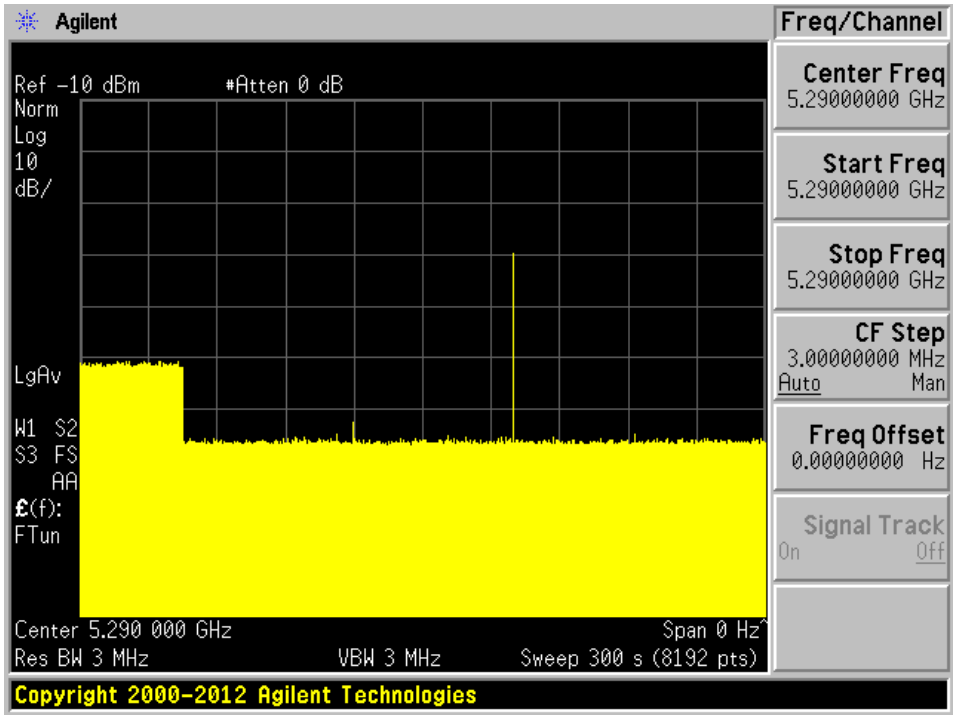
Meru Operating System

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



No transmissions found after radar signal applied.

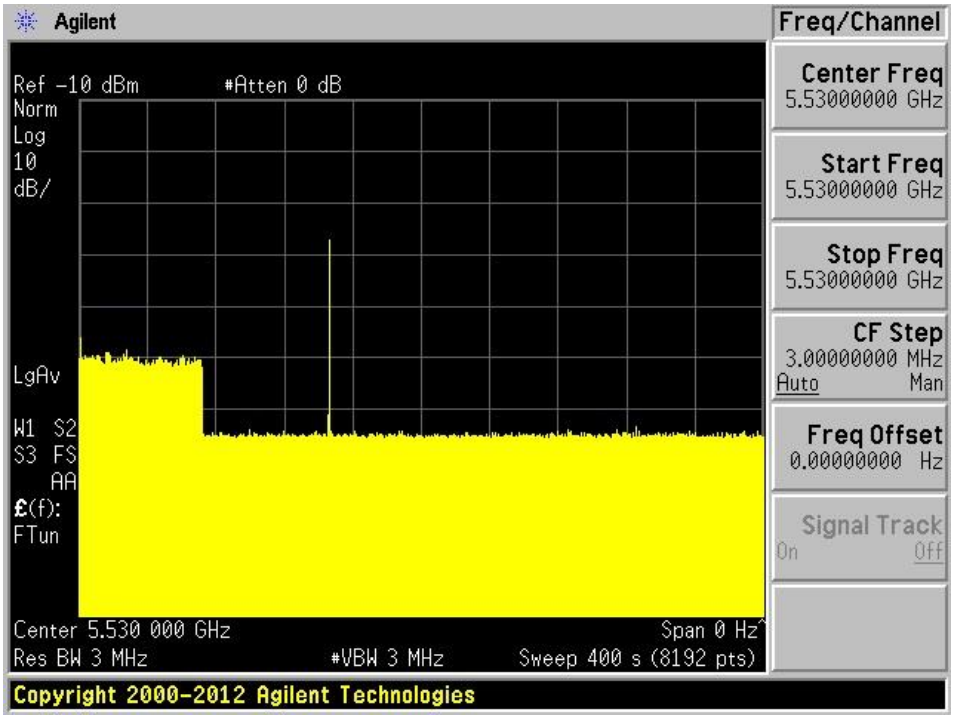
Plot of Radar signal applied at the end of 6 seconds of CAC



No transmissions found after radar signal applied.

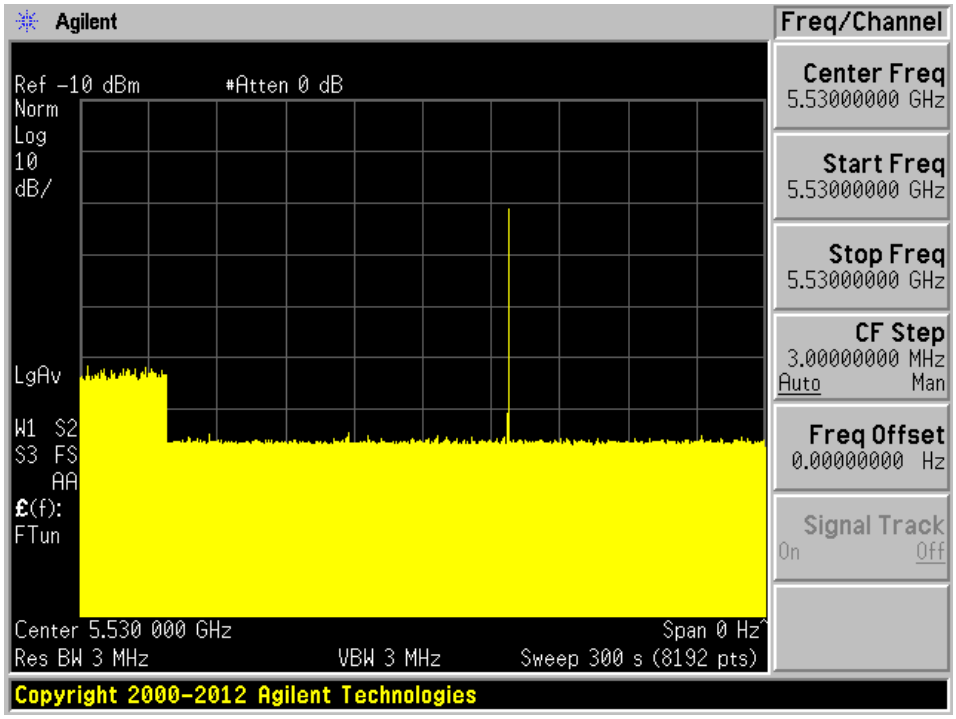
5530 MHz

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



No transmissions found after radar signal applied.

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

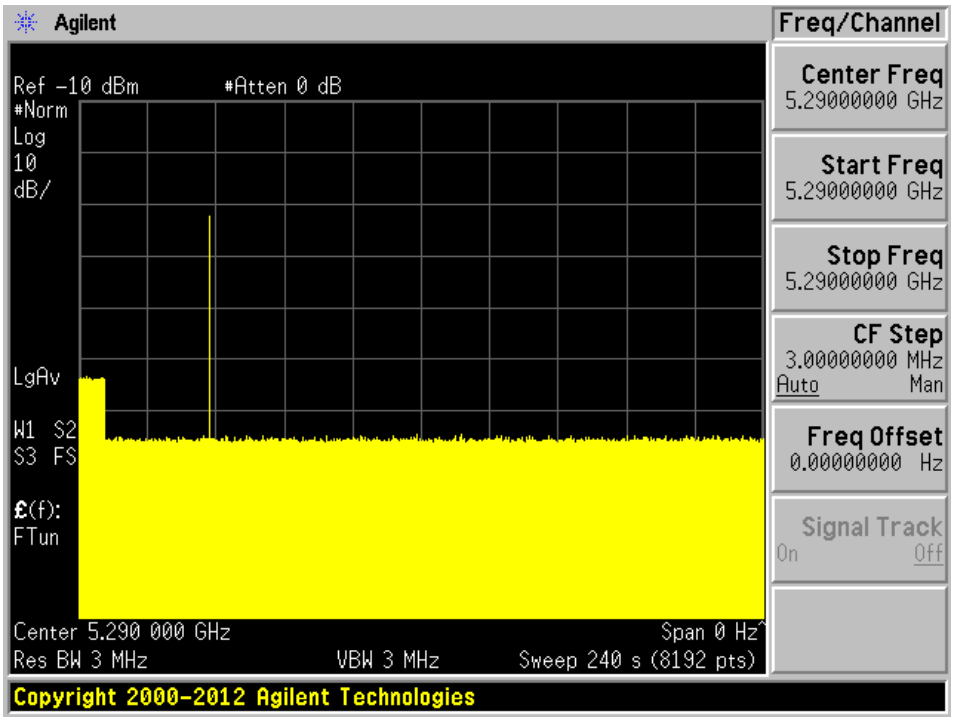


No transmissions found after radar signal applied.

5290 MHz

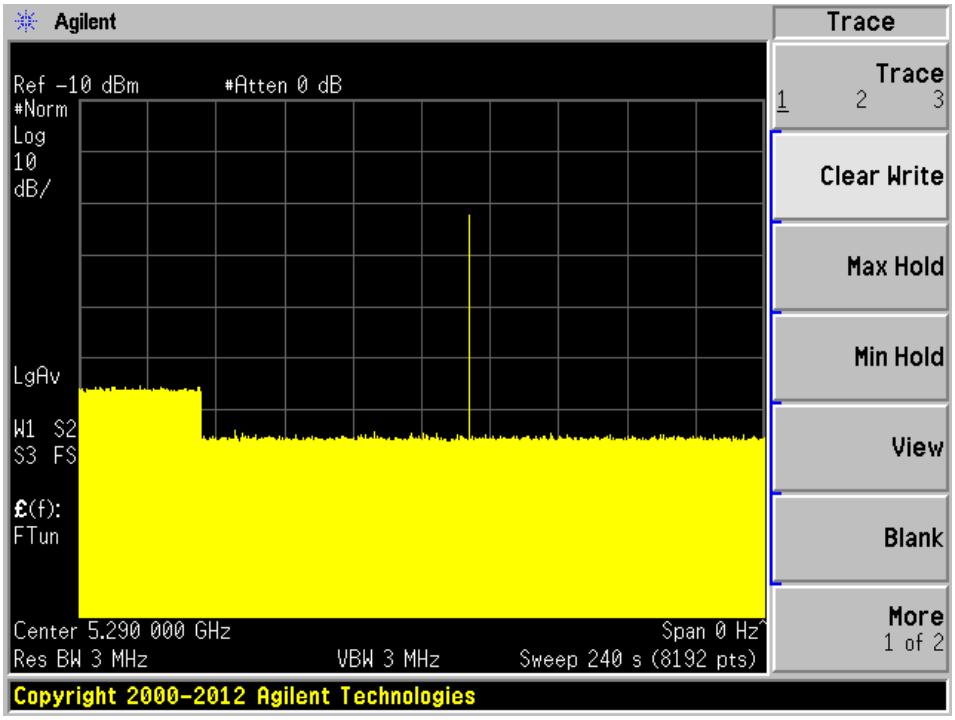
Fortinet Operating System

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



No transmissions found after radar signal applied.

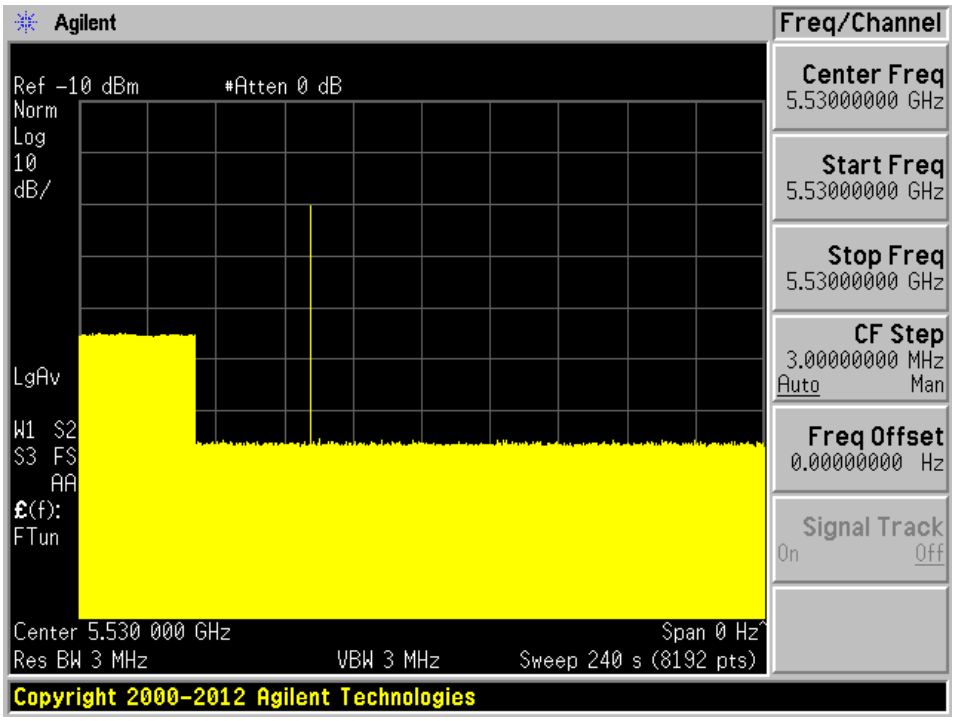
Plot of Radar signal applied at the end of 6 seconds of CAC



No transmissions found after radar signal applied.

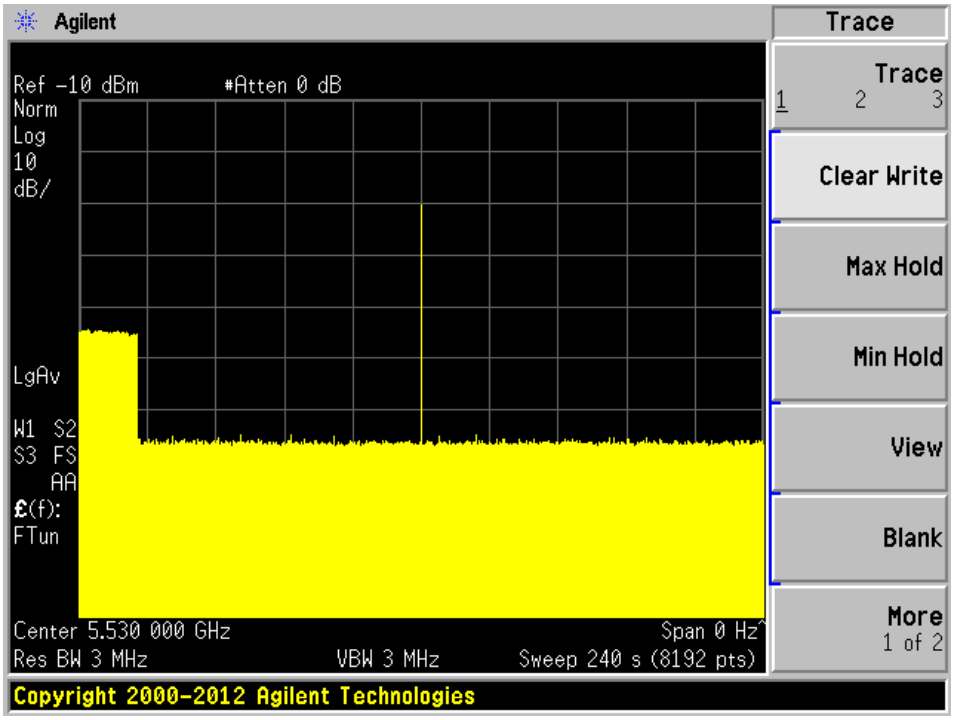
5530 MHz

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



No transmissions found after radar signal applied.

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



No transmissions found after radar signal applied.

7 Channel Move Time and Channel Closing Transmission Time

7.1 Test Procedure

BACL use type 0 radar signal to test the channel move time and channel closing transmission time.

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
5290	80	Type 0	Compliant
5530	80	Type 0	Compliant

Please refer to the following tables and plots.

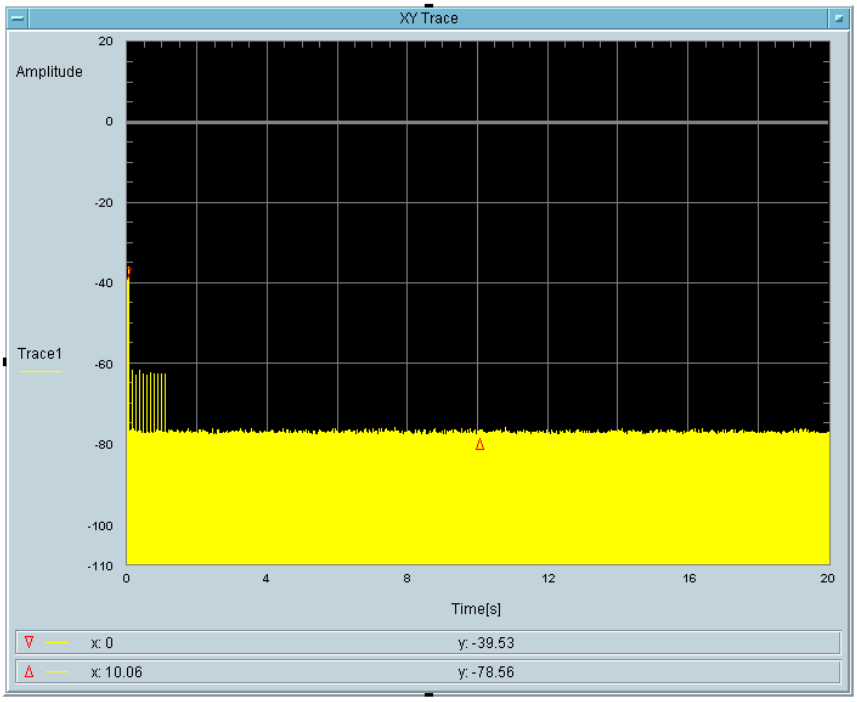
Meru Operating System

5290 MHz, Bandwidth 80 MHz

Type 0 radar channel move time and channel closing transmission time result:

Channel closing transmitting time (ms)	Limit (ms)	Result
43.95 + 21.97	200+60	Pass

Channel move time (s)	Limit (s)	Result
< 10	10	Pass

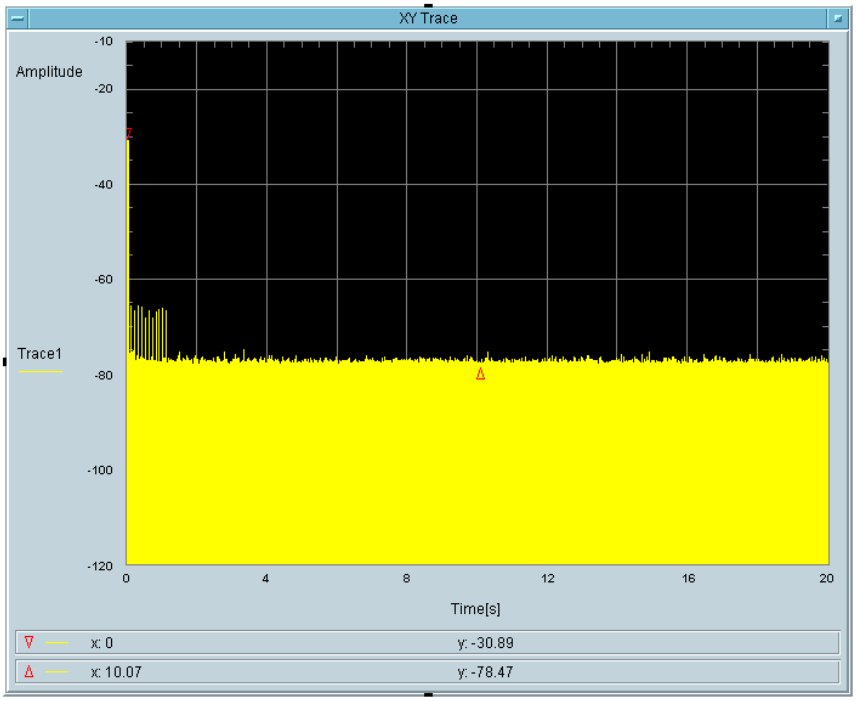


5530 MHz, Bandwidth 80 MHz

Type 0 radar channel move time and channel closing transmission time result:

Channel closing transmitting time (ms)	Limit (ms)	Result
46.39+29.3	200+60	Pass

Channel move time (s)	Limit (s)	Result
< 10	10	Pass



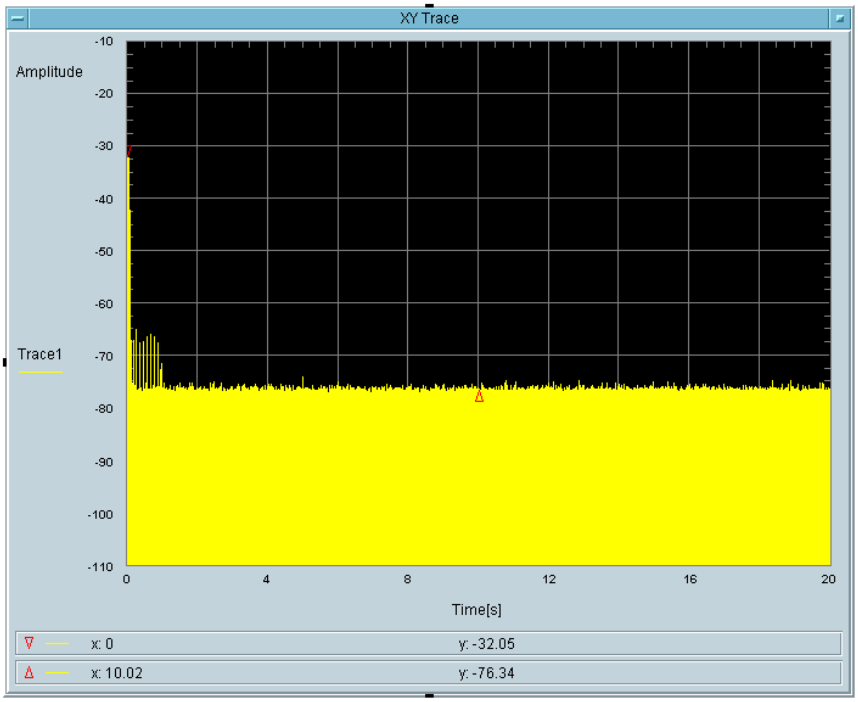
Fortinet Operating System

5290 MHz, Bandwidth 80 MHz

Type 0 radar channel move time and channel closing transmission time result:

Channel closing transmitting time (ms)	Limit (ms)	Result
46.39 + 24.41	200+60	Pass

Channel move time (s)	Limit (s)	Result
< 10	10	Pass

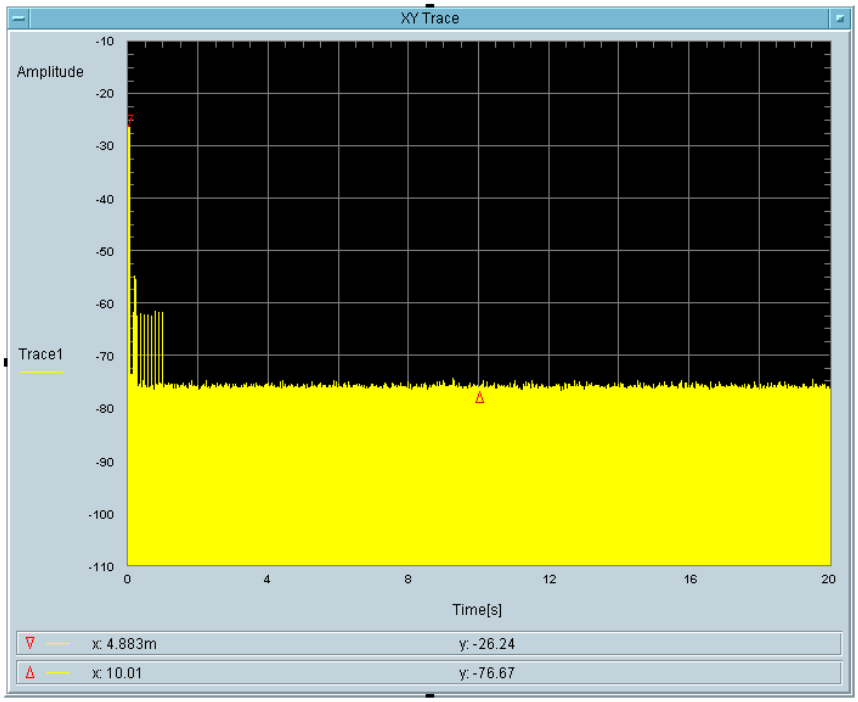


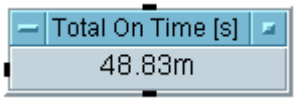
5530 MHz, Bandwidth 80 MHz

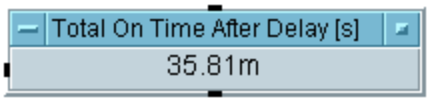
Type 0 radar channel move time and channel closing transmission time result:

Channel closing transmitting time (ms)	Limit (ms)	Result
48.83 + 35.81	200+60	Pass

Channel move time (s)	Limit (s)	Result
< 10	10	Pass







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)

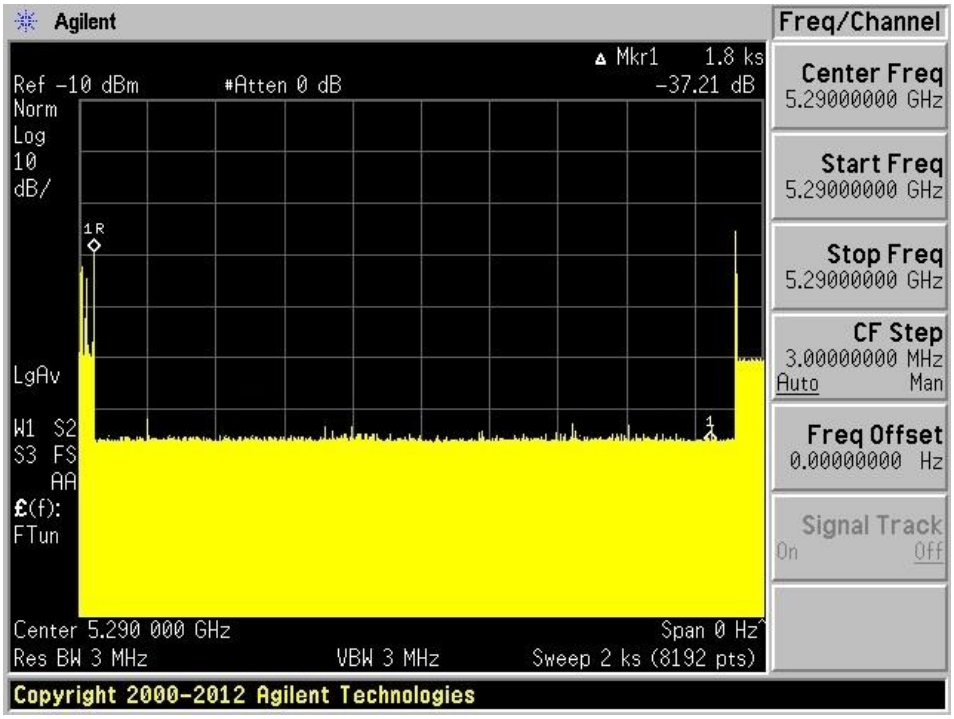
8.2 Test Results

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

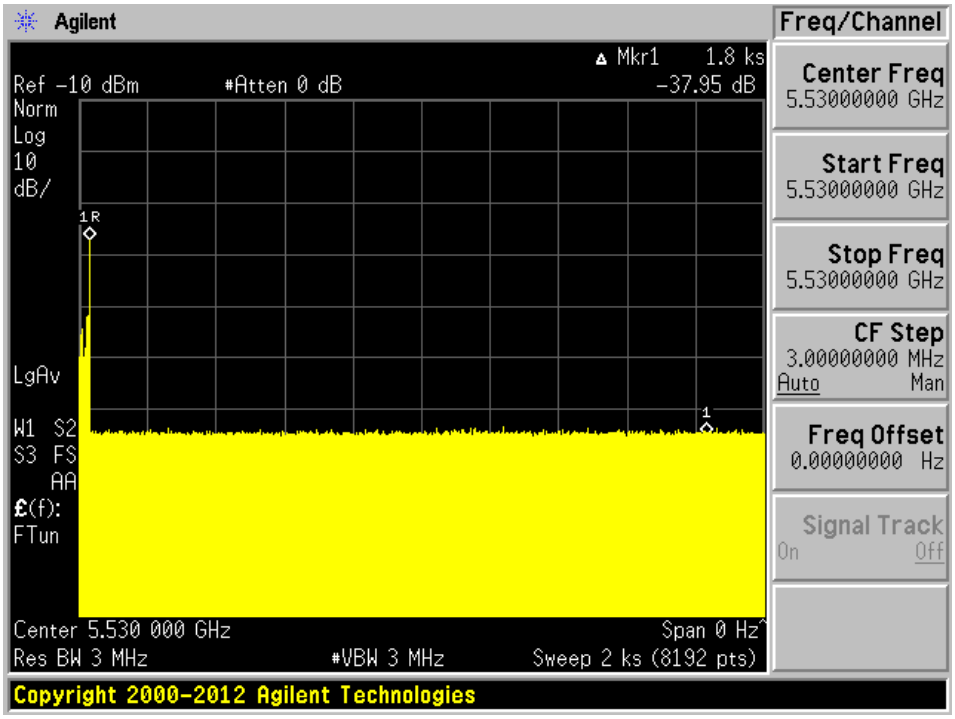
Please refer to the following plots.

Meru Operating System

5290 MHz, Bandwidth 80 MHz

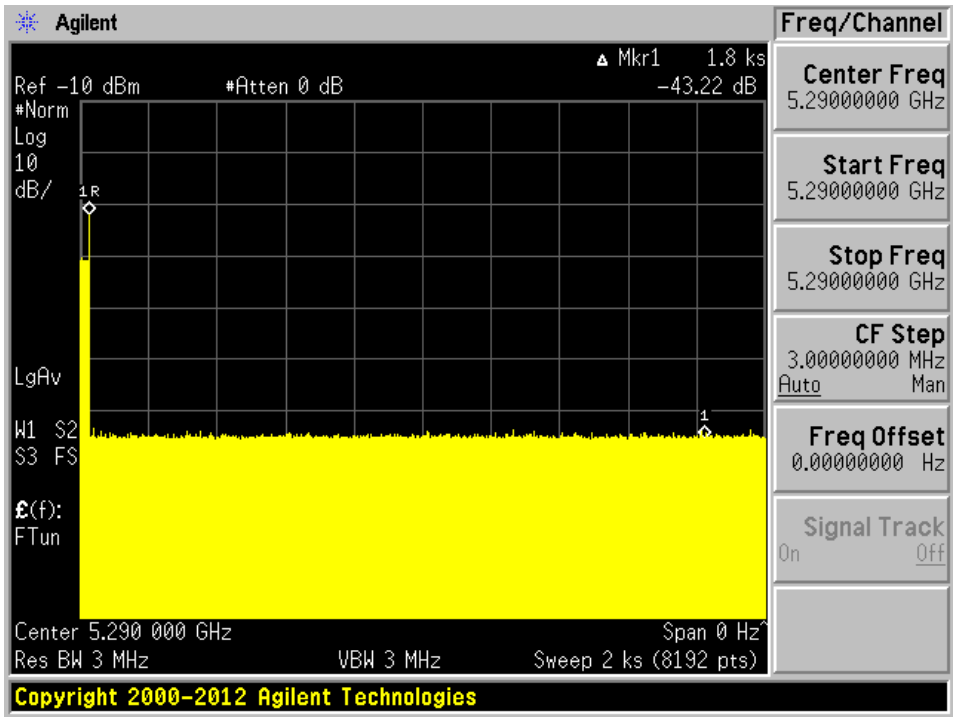


5530 MHz, Bandwidth 80 MHz

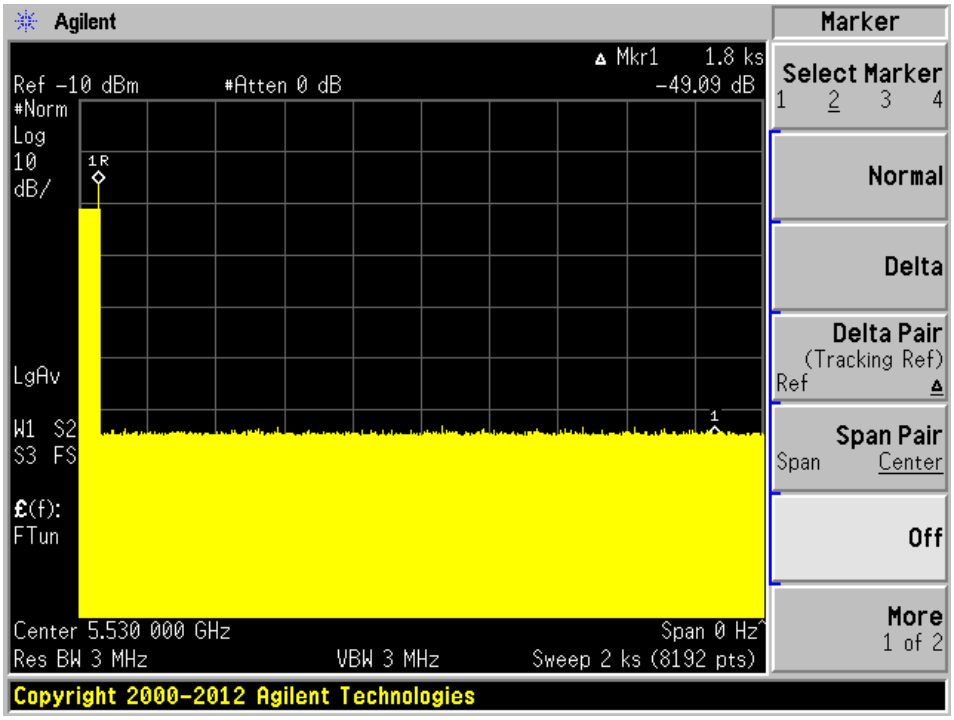


Fortinet Operating System

5290 MHz, Bandwidth 80 MHz



5530 MHz, Bandwidth 80 MHz



9 Radar Detection Bandwidth & Radar Detection Performance Check

9.1 Detection Bandwidth

Procedure:

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

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

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

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

Test Results

Meru Operating System

Frequency (MHz)	F_L (MHz)	F_H (MHz)	Detection Bandwidth (MHz)	Minimum Limit	Result
5260	5250	5270	20	100%	Compliance
5270	5250	5291	41	100%	Compliance
5290	5250	5330	80	100%	Compliance
5500	5490	5511	21	100%	Compliance
5510	5490	5530	40	100%	Compliance
5530	5490	5570	80	100%	Compliance

Please refer to the following tables.

Results of Detection Bandwidth:

Meru Operating System

EUT Frequency = 5260 MHz											
DFS Detection Trials (1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5249	0	0	0	0	0	0	0	0	0	0	0 %
5250(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5255	1	1	1	1	1	1	1	1	1	1	100 %
5260(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5265	1	1	1	1	1	1	1	1	1	1	100 %
5270(F_H)	0	1	1	1	1	1	1	1	1	1	90 %
5271	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = $F_H - F_L$=5270-5250=20 MHz											
EUT 99% OBW = 17 MHz; 17 x 100% = 17 MHz **Result:** Pass											

EUT Frequency = 5500 MHz											
DFS Detection Trials (1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5489	0	0	0	0	0	0	0	0	0	0	0 %
5490(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5495	1	1	1	1	1	1	1	1	1	1	100 %
5500(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5505	1	1	1	1	1	1	1	1	1	1	100 %
5510	1	1	1	1	1	1	1	1	1	1	100 %
5511(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5512	0	0	0	0	0	0	1	0	0	1	20 %
Detection Bandwidth = $F_H - F_L$=5511-5490=21 MHz											
EUT 99% OBW = 17 MHz; 17 x 100% = 17 MHz **Result:** Pass											

Results of Detection Bandwidth:

EUT Frequency = 5270 MHz											
DFS Detection Trials (1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5249	0	0	0	0	0	0	0	0	0	0	0 %
5250(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5255	1	1	1	1	1	1	1	1	1	1	100 %
5260	1	1	1	1	1	1	1	1	1	1	100 %
5265	1	1	1	1	1	1	1	1	1	1	100 %
5270(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5275	1	1	1	1	1	1	1	1	1	1	100 %
5280	1	1	1	1	1	1	1	1	1	1	100 %
5285	1	1	1	1	1	1	1	1	1	1	100 %
5290	1	1	1	1	1	1	1	1	1	1	100 %
5291(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5292	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = $F_H - F_L$=5291-5250=41 MHz											
EUT 99% OBW = 37 MHz; 37 x 100% = 37 MHz **Result:** Pass											

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

Results of Detection Bandwidth:

EUT Frequency = 5290 MHz											
DFS Detection Trials (1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5249	0	0	0	0	0	0	0	0	0	0	0 %
5250(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5255	1	1	1	1	1	1	1	1	1	1	100 %
5260	1	1	1	1	1	1	1	1	1	1	100 %
5265	1	1	1	1	1	1	1	1	1	1	100 %
5270	1	1	1	1	1	1	1	1	1	1	100 %
5275	1	1	1	1	1	1	1	1	1	1	100 %
5280	1	1	1	1	1	1	1	1	1	1	100 %
5285	1	1	1	1	1	1	1	1	1	1	100 %
5290(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5295	1	1	1	1	1	1	1	1	1	1	100 %
5300	1	1	1	1	1	1	1	1	1	1	100 %
5305	1	1	1	1	1	1	1	1	1	1	100 %
5310	1	1	1	1	1	1	1	1	1	1	100 %
5315	1	1	1	1	1	1	1	1	1	1	100 %
5320	1	1	1	1	1	1	1	1	1	1	100 %
5325	1	1	1	1	1	1	1	1	1	1	100 %
5330(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5331	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = $F_H - F_L$=5330-5250=80 MHz											
EUT 99% OBW = 76 MHz; 76 x 100% = 76 MHz **Result:** Pass											

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

Fortinet Operating System

Frequency (MHz)	F_L (MHz)	F_H (MHz)	Detection Bandwidth (MHz)	Minimum Limit	Result
5260	5250	5270	20	100%	Compliance
5270	5250	5291	41	100%	Compliance
5290	5250	5330	80	100%	Compliance
5500	5490	5511	22	100%	Compliance
5510	5490	5530	43	100%	Compliance
5530	5490	5570	82	100%	Compliance

Please refer to the following tables.

Results of Detection Bandwidth:

Fortinet Operating System

EUT Frequency = 5260 MHz											
DFS Detection Trials (1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5249	0	0	0	0	0	0	0	0	0	0	0 %
5250(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5255	1	1	1	1	1	1	1	1	1	1	100 %
5260(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5265	1	1	1	1	1	1	1	1	1	1	100 %
5270(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5271	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = $F_H - F_L$=5270-5250=20 MHz											
EUT 99% OBW = 17 MHz; 17 x 100% = 17 MHz **Result:** Pass											

EUT Frequency = 5500 MHz											
DFS Detection Trials (1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5489	0	0	0	0	0	0	0	0	0	0	0 %
5490(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5495	1	1	1	1	1	1	1	1	1	1	100 %
5500(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5505	1	1	1	1	1	1	1	1	1	1	100 %
5510	1	1	1	1	1	1	1	1	1	1	100 %
5511(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5512(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5513	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = $F_H - F_L$=5511-5490=22 MHz											
EUT 99% OBW = 17 MHz; 17 x 100% = 17 MHz **Result:** Pass											

Results of Detection Bandwidth:

EUT Frequency = 5270 MHz											
DFS Detection Trials (1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5249	0	0	0	0	0	0	0	0	0	1	10 %
5250(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5255	1	1	1	1	1	1	1	1	1	1	100 %
5260	1	1	1	1	1	1	1	1	1	1	100 %
5265	1	1	1	1	1	1	1	1	1	1	100 %
5270(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5275	1	1	1	1	1	1	1	1	1	1	100 %
5280	1	1	1	1	1	1	1	1	1	1	100 %
5285	1	1	1	1	1	1	1	1	1	1	100 %
5290	1	1	1	1	1	1	1	1	1	1	100 %
5291(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5292	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = $F_H - F_L$=5291-5250=41 MHz											
EUT 99% OBW = 37 MHz; 37 x 100% = 37 MHz **Result:** Pass											

EUT Frequency = 5510 MHz											
DFS Detection Trials (1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5488	0	0	0	0	0	0	0	0	0	0	0 %
5489(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5490	1	1	1	1	1	1	1	1	1	1	100 %
5495	1	1	1	1	1	1	1	1	1	1	100 %
5500	1	1	1	1	1	1	1	1	1	1	100 %
5505	1	1	1	1	1	1	1	1	1	1	100 %
5510(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5515	1	1	1	1	1	1	1	1	1	1	100 %
5520	1	1	1	1	1	1	1	1	1	1	100 %
5525	1	1	1	1	1	1	1	1	1	1	100 %
5530	1	1	1	1	1	1	1	1	1	1	100 %
5531	1	1	1	1	1	1	1	1	1	1	100 %
5532(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5533	0	0	0	0	0	0	0	0	0	0	0%
Detection Bandwidth = $F_H - F_L$=5530-5490=43 MHz											
EUT 99% OBW = 37 MHz; 37 x 100% = 37 MHz **Result:** Pass											

Results of Detection Bandwidth:

EUT Frequency = 5290 MHz											
DFS Detection Trials (1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5249	0	0	0	0	0	0	0	0	0	0	0 %
5250(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5255	1	1	1	1	1	1	1	1	1	1	100 %
5260	1	1	1	1	1	1	1	1	1	1	100 %
5265	1	1	1	1	1	1	1	1	1	1	100 %
5270	1	1	1	1	1	1	1	1	1	1	100 %
5275	1	1	1	1	1	1	1	1	1	1	100 %
5280	1	1	1	1	1	1	1	1	1	1	100 %
5285	1	1	1	1	1	1	1	1	1	1	100 %
5290(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5295	1	1	1	1	1	1	1	1	1	1	100 %
5300	1	1	1	1	1	1	1	1	1	1	100 %
5305	1	1	1	1	1	1	1	1	1	1	100 %
5310	1	1	1	1	1	1	1	1	1	1	100 %
5315	1	1	1	1	1	1	1	1	1	1	100 %
5320	1	1	1	1	1	1	1	1	1	1	100 %
5325	1	1	1	1	1	1	1	1	1	1	100 %
5330(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5331	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = $F_H - F_L$=5330-5250=80 MHz											
EUT 99% OBW = 76 MHz; 76 x 100% = 76 MHz **Result:** Pass											

EUT Frequency = 5530 MHz											
DFS Detection Trials (1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5488	0	0	0	0	0	0	0	0	0	0	0 %
5489(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5490	1	1	1	1	1	1	1	1	1	1	100 %
5495	1	1	1	1	1	1	1	1	1	1	100 %
5500	1	1	1	1	1	1	1	1	1	1	100 %
5505	1	1	1	1	1	1	1	1	1	1	100 %
5510	1	1	1	1	1	1	1	1	1	1	100 %
5515	1	1	1	1	1	1	1	1	1	1	100 %
5520	1	1	1	1	1	1	1	1	1	1	100 %
5525	1	1	1	1	1	1	1	1	1	1	100 %
5530(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5535	1	1	1	1	1	1	1	1	1	1	100 %
5540	1	1	1	1	1	1	1	1	1	1	100 %
5545	1	1	1	1	1	1	1	1	1	1	100 %
5550	1	1	1	1	1	1	1	1	1	1	100 %
5555	1	1	1	1	1	1	1	1	1	1	100 %
5560	1	1	1	1	1	1	1	1	1	1	100 %
5565	1	1	1	1	1	1	1	1	1	1	100 %
5570	1	1	1	1	1	1	1	1	1	1	100 %
5571(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5572	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = $F_H - F_L$=5570-5490=82 MHz											
EUT 99% OBW = 76 MHz; 76 x 100% = 76 MHz **Result:** Pass											

9.2 Radar Detection Performance Check

Procedure:

Stream MPEG file from master to slave
Generate radar waveform
Record whether or not the waveform was detected
At least 30 trials are applied for each radar type
For radar types with randomized parameters, each trial uses a unique waveform
Perform with each of the radar types 1-6

Confirm that the detection rate for each radar type meets the minimum requirement
Type 1A&1B, 2, 3, 4: 60% each
Type 5: 80%
Type 6: 70%
Confirm that the mean of the rates for radar types 1 through 4 meets the requirement of 80%

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

Test Results:

Meru Operating System

5260 MHz, 20 MHz Bandwidth

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1A/1B	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:

Meru Operating System

5260 MHz, 20 MHz Bandwidth

Table-1A/1B Radar Type 1A/1B Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5260	86	1	618	1
2	5260	102	1	518	1
3	5260	89	1	598	1
4	5260	59	1	898	1
5	5260	92	1	578	1
6	5260	83	1	638	1
7	5260	70	1	758	1
8	5260	78	1	678	1
9	5260	81	1	658	1
10	5260	62	1	858	1
11	5260	76	1	698	1
12	5260	67	1	798	1
13	5260	95	1	558	1
14	5260	61	1	878	1
15	5260	58	1	918	1
16	5260	30	1	1784	1
17	5260	26	1	2062	1
18	5260	32	1	1681	1
19	5260	98	1	544	1
20	5260	18	1	2987	1
21	5260	28	1	1909	1
22	5260	53	1	1012	1
23	5260	26	1	2054	1
24	5260	90	1	593	1
25	5260	27	1	1959	1
26	5260	90	1	587	1
27	5260	34	1	1590	1
28	5260	33	1	1603	1
29	5260	24	1	2255	1
30	5260	28	1	1885	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	5260	29	1.7	210	1
2	5260	25	3.4	202	1
3	5260	28	1	178	1
4	5260	23	4.5	214	1
5	5260	25	2.6	199	1
6	5260	28	4.7	196	1
7	5260	27	2.5	216	1
8	5260	24	4.6	224	1
9	5260	26	4.5	228	1
10	5260	27	2.2	177	1
11	5260	28	1	222	1
12	5260	24	4.2	207	1
13	5260	23	2.2	225	1
14	5260	28	4.5	209	1
15	5260	25	2	200	1
16	5260	28	4.2	160	1
17	5260	29	3.8	152	1
18	5260	23	2.6	161	1
19	5260	26	2.3	182	1
20	5260	25	2.2	228	1
21	5260	25	4.8	180	1
22	5260	26	4.2	192	1
23	5260	25	3.5	229	1
24	5260	23	4.3	222	1
25	5260	25	1.3	160	1
26	5260	26	1.4	230	1
27	5260	23	1.3	200	1
28	5260	25	2.3	214	1
29	5260	27	2.8	216	1
30	5260	29	3	154	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	5260	18	6.4	397	1
2	5260	18	7	499	1
3	5260	18	8.2	358	1
4	5260	16	8	433	1
5	5260	17	8.5	383	1
6	5260	18	6.4	345	1
7	5260	18	6.6	467	1
8	5260	16	8.2	201	1
9	5260	17	6.2	273	1
10	5260	18	9.4	228	1
11	5260	18	7.7	442	1
12	5260	17	8.4	448	1
13	5260	16	7.1	447	1
14	5260	16	9.9	310	1
15	5260	16	6.8	382	1
16	5260	16	6.2	270	1
17	5260	16	7.2	434	1
18	5260	17	8.8	463	1
19	5260	16	7.1	440	1
20	5260	17	9.8	379	1
21	5260	16	8.9	397	1
22	5260	16	9.9	260	1
23	5260	18	9.8	468	1
24	5260	17	6.2	241	1
25	5260	17	9	323	1
26	5260	18	7.7	337	1
27	5260	17	9.7	451	1
28	5260	17	7.4	352	1
29	5260	16	8.8	414	1
30	5260	18	9.3	245	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	5260	15	13.4	431	1
2	5260	15	11.3	342	1
3	5260	15	17.1	322	1
4	5260	15	12.2	399	1
5	5260	15	12	238	1
6	5260	16	16.3	204	1
7	5260	13	15.8	244	1
8	5260	14	18	340	1
9	5260	15	13.4	399	1
10	5260	13	11.6	246	1
11	5260	15	16.8	325	1
12	5260	12	12.8	392	1
13	5260	16	11.5	302	1
14	5260	13	13	219	1
15	5260	12	13.9	498	1
16	5260	15	12.5	259	1
17	5260	15	20	242	1
18	5260	16	16.7	471	1
19	5260	15	12.9	334	1
20	5260	16	18.5	266	1
21	5260	12	16	492	1
22	5260	15	17	263	1
23	5260	16	13.1	325	1
24	5260	13	11.7	450	1
25	5260	14	12.8	229	1
26	5260	13	12.3	417	1
27	5260	13	19.9	318	1
28	5260	14	15.3	203	1
29	5260	12	19.5	370	1
30	5260	12	14.7	439	1
Detection Percentage: 100% (>60%)					

Table-5 Radar Type 5 Statistical Performance

Trial #	Fc (MHz)	Detection (1:yes; 0:no)
1	5260	1
2	5260	1
3	5260	1
4	5260	1
5	5260	1
6	5260	1
7	5260	1
8	5260	1
9	5260	1
10	5260	1
11	5255.6	1
12	5253.2	1
13	5257.6	1
14	5254.4	1
15	5252.8	1
16	5254.0	1
17	5256.8	1
18	5257.6	1
19	5255.6	1
20	5257.6	1
21	5267.2	1
22	5266.4	1
23	5267.6	1
24	5262.8	1
25	5265.6	1
26	5268.0	1
27	5265.2	1
28	5266.0	1
29	5262.4	1
30	5265.2	1
Detection Percentage: 100 % (>80%)		

Bin5 Statistics 1

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	9	88.2	1416		0.22816	
1	2	9	92.7	1129		1.222571	
2	2	9	53.5	1073		1.672074	
3	3	9	86.7	1311	1346	2.037751	
4	1	9	68.6			3.028439	
5	2	9	98.1	1151		3.277534	
6	2	9	53.2	1358		4.008219	
7	2	9	68.3	1351		4.455745	
8	2	9	71.5	1363		5.148513	
9	3	9	79.7	1421	1469	6.079459	1
10	3	9	70.8	1661	1047	6.835453	
11	1	9	50.3			7.509823	
12	1	9	73.2			7.821009	
13	2	9	70.2	1011		8.425619	
14	1	9	78.4			9.341921	
15	2	9	57	1488		9.91581	
16	1	9	71.8			10.555408	
17	2	9	94.5	1047		11.178817	
18	3	9	67.8	1413	1079	11.883087	

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	12	73.7	1409		0.554235	1
1	3	12	55.3	1295	1078	1.306356	
2	2	12	69.2	1949		1.832553	
3	1	12	90.1			2.789932	
4	2	12	57.2	1498		3.768464	
5	2	12	92.2	1988		4.59856	
6	2	12	83.5	1971		5.552727	
7	2	12	62	1231		6.751707	
8	2	12	90	1270		7.418848	
9	2	12	95	1098		8.448694	
10	2	12	85.2	1781		8.788076	
11	3	12	59.3	1263	1977	9.498869	
12	3	12	70.2	1904	1412	10.998304	
13	2	12	66.8	1365		11.794991	

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	11	67.7			0.468347	1
1	1	11	84			1.295506	
2	3	11	55.1	1311	1337	1.988765	
3	1	11	75.6			2.552271	
4	2	11	73.1	1104		2.894503	
5	3	11	78.7	1183	1125	3.421705	
6	3	11	80.3	1881	1538	4.228457	
7	3	11	53.3	1076	1311	5.306823	
8	1	11	69.2			5.868647	
9	2	11	63.2	1831		6.302203	
10	1	11	61.1			7.042649	
11	3	11	98.4	1977	1033	7.874863	
12	1	11	99.9			8.285755	
13	3	11	84.8	1376	1824	9.219132	
14	3	11	70	1538	1943	9.658453	
15	1	11	82			10.500095	
16	1	11	69.7			11.150198	
17	2	11	58.8	1888		11.808613	

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	9	68	1809		0.44929	
1	2	9	96.3	1134		1.269667	
2	2	9	51.5	1010		1.815499	
3	2	9	56.8	1222		2.780377	
4	2	9	95.5	1133		2.864671	
5	2	9	53.5	1203		3.561318	
6	3	9	79.7	1466	1646	4.514498	
7	1	9	92.6			5.434123	
8	2	9	88.7	1727		6.029546	1
9	2	9	67.5	1219		6.383944	
10	1	9	80.2			7.543441	
11	1	9	82.1			8.27514	
12	3	9	70.9	1472	1807	8.687399	
13	1	9	99.8			9.796525	
14	2	9	97.4	1478		10.167095	
15	1	9	91.3			10.838913	
16	1	9	64.8			11.591685	

Bin5 Statistics 5

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	6	95	1578		0.060671	
1	1	6	63			0.883574	
2	2	6	78.1	1152		1.460404	
3	2	6	88.5	1876		2.735081	
4	2	6	56.8	1671		3.177859	
5	1	6	58			3.587944	
6	2	6	84.2	1836		4.427038	
7	2	6	82.5	1665		5.42233	
8	2	6	90.9	1075		6.346726	1
9	2	6	93.5	1901		6.92616	
10	2	6	90.2	1500		7.109107	
11	3	6	88.5	1056	1683	8.231138	
12	2	6	84	1479		8.588491	
13	3	6	58.6	1393	1740	9.404549	
14	1	6	54.9			10.145559	
15	3	6	68.1	1644	1961	11.211423	
16	3	6	85.8	1294	1916	11.827629	

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	10	51.9	1807	1235	0.54957	
1	3	10	88.8	1649	1837	1.140191	
2	3	10	72.2	1528	1619	1.473738	
3	2	10	86.8	1146		2.546256	
4	3	10	64.3	1294	1783	2.930894	
5	3	10	69.4	1781	1449	3.707079	
6	2	10	88.5	1688		4.922	
7	1	10	62			5.492038	
8	1	10	63.9			6.01415	1
9	1	10	59.8			6.909563	
10	2	10	81	1435		7.638367	
11	2	10	89.9	1619		8.064561	
12	1	10	95.8			8.618092	
13	1	10	90.7			9.35342	
14	2	10	59.2	1379		9.93202	
15	1	10	94.4			10.977146	
16	2	10	62.6	1420		11.309466	

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	11	81	1863		0.4615	1
1	3	11	69.5	1256	1282	1.053926	
2	3	11	80.4	1597	1967	2.642009	
3	2	11	68.6	1064		3.61672	
4	2	11	98	1447		4.06033	
5	2	11	51.1	1724		4.906888	
6	2	11	66.5	1443		5.821783	
7	1	11	95.7			6.942799	
8	2	11	68	1621		8.29555	
9	3	11	92.7	1449	1269	8.997723	
10	1	11	91.9			9.621948	
11	2	11	89.9	1563		10.573979	
12	3	11	71.6	1690	1440	11.296527	

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	8	61.5			0.734435	1
1	3	8	53.9	1493	1747	1.103003	
2	3	8	78.2	1859	1179	1.844424	
3	2	8	87.5	1992		2.977265	
4	2	8	61.7	1669		3.74322	
5	3	8	50.5	1506	1010	4.737637	
6	3	8	70.4	1286	1133	5.185703	
7	2	8	50.3	1089		6.436977	
8	2	8	79.9	1633		7.474116	
9	2	8	79.6	1901		8.152558	
10	2	8	99.2	1988		8.723669	
11	2	8	55.7	1577		10.238493	
12	2	8	53.7	1091		11.007824	
13	3	8	93.7	1157	1673	11.73152	

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	51	1668	1271	0.68504	1
1	3	11	72.6	1521	1786	1.060389	
2	1	11	56.1			2.030196	
3	3	11	52	1140	1602	2.262794	
4	1	11	61			3.625909	
5	2	11	50.1	1711		4.218952	
6	1	11	82.9			5.107526	
7	2	11	72	1353		5.352206	
8	1	11	51.1			6.507928	
9	2	11	98.2	1939		6.960793	
10	1	11	81.2			7.599791	
11	2	11	67.4	1219		8.63867	
12	2	11	83.9	1478		9.314338	
13	2	11	54.8	1490		10.440825	
14	1	11	64.7			11.140904	
15	2	11	71.6	1781		11.9002	

Bin5 Statistics 10

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	14	62.1	1524		0.327991	1
1	2	14	68.3	1971		1.258877	
2	2	14	51.3	1087		1.742464	
3	3	14	76.3	1173	1473	2.188603	
4	2	14	52	1067		3.192349	
5	3	14	93.5	1075	1528	3.802412	
6	2	14	65.4	1203		4.324386	
7	2	14	71.3	1496		4.677195	
8	3	14	63.3	1067	1191	5.456446	
9	2	14	66.3	1615		6.122011	
10	2	14	58.5	1142		6.943994	
11	3	14	74	1459	1391	7.542158	
12	3	14	86.2	1493	1495	8.242603	
13	2	14	56.9	1523		8.898034	
14	1	14	98.2			9.487455	
15	1	14	93			10.404006	
16	3	14	87.7	1536	1027	10.708898	
17	1	14	57.9			11.511288	

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	14	95.1			0.42449	1
1	2	14	71	1758		2.355467	
2	2	14	94.5	1287		3.884373	
3	3	14	93.2	1566	1738	5.591812	
4	2	14	97.3	1464		6.591811	
5	3	14	68.3	1775	1086	8.379457	
6	2	14	66.4	1406		10.125745	
7	3	14	54.4	1117	1767	11.18635	

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	8	96.2	1572	1513	1.051947	1
1	2	8	76.5	1976		1.788892	
2	2	8	65.1	1711		2.635291	
3	3	8	55.7	1158	1778	4.312632	
4	2	8	56.5	1385		4.836749	
5	1	8	62.6			5.996676	
6	3	8	58.3	1135	1743	7.132832	
7	2	8	59.2	1235		8.213162	
8	2	8	68.8	1642		9.311714	
9	3	8	97.5	1421	1262	9.841998	
10	2	8	99.6	1399		11.289336	

Bin5 Statistics 13

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	19	70.1	1799		0.607158	1
1	1	19	94.5			1.475293	
2	1	19	82			2.079508	
3	2	19	90.4	1469		2.879335	
4	2	19	88.1	1414		4.009376	
5	3	19	55.1	1679	1688	5.116396	
6	3	19	54.2	1129	1481	5.315544	
7	1	19	77.6			6.603637	
8	2	19	61.3	1563		7.524598	
9	2	19	62	1773		7.955497	
10	3	19	71.8	1186	1342	9.024334	
11	1	19	94			10.207874	
12	2	19	67	1450		10.54366	
13	2	19	98.3	1692		11.187772	

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	11	80.5	1884		0.110722	1
1	2	11	80.6	1236		1.368932	
2	2	11	94.4	1728		2.03896	
3	2	11	76.1	1451		3.310963	
4	3	11	76.9	1400	1208	3.715315	
5	2	11	93.2	1283		5.082703	
6	2	11	58.5	1891		5.332387	
7	1	11	79.4			6.660153	
8	1	11	69.5			7.023938	
9	1	11	75.6			8.057851	
10	2	11	72	1182		9.334542	
11	1	11	70.1			9.665698	
12	2	11	58	1346		11.003723	
13	1	11	51.2			11.552137	

Bin5 Statistics 15

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	7	54.3	1067		0.131925	
1	2	7	58.3	1919		1.269469	
2	3	7	59.5	1326	1815	1.483471	
3	2	7	87.3	1890		2.681503	
4	2	7	58.6	1620		3.046476	
5	3	7	91.2	1190	1452	3.775805	
6	3	7	93.6	1201	1406	4.265656	
7	1	7	70.3			5.345076	
8	2	7	89.9	1923		6.064821	1
9	3	7	91	1768	1106	6.503311	
10	2	7	80.3	1341		7.251955	
11	1	7	85.5			8.077421	
12	3	7	96.5	1577	1597	9.114043	
13	2	7	94.2	1090		9.464298	
14	3	7	78.1	1250	1187	10.140189	
15	3	7	72.1	1727	1462	10.843091	
16	2	7	62.9	1308		11.922743	

Bin5 Statistics 16

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	10	64.2			0.01673	
1	2	10	52.8	1580		1.320547	
2	1	10	58.7			1.717226	
3	2	10	84.6	1533		3.106541	
4	2	10	54.5	1595		4.265144	
5	1	10	80.2			4.573569	
6	1	10	97.5			5.467261	
7	2	10	50.6	1624		6.027697	1
8	3	10	75.6	1371	1681	7.326482	
9	3	10	93.7	1647	1692	8.185268	
10	1	10	81.2			9.108151	
11	2	10	83.4	1669		9.561446	
12	3	10	94.9	1622	1818	10.443292	
13	2	10	65.1	1046		11.919206	

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	17	63.6			0.601456	
1	2	17	76.2	1382		0.989419	
2	1	17	81.8			1.523923	
3	2	17	93.7	1714		2.199379	
4	2	17	69.9	1016		3.45338	
5	1	17	94.3			4.077625	
6	2	17	83.1	1922		4.572271	
7	1	17	52.5			4.957831	
8	2	17	54.5	1698		6.036957	1
9	1	17	78.4			6.529516	
10	3	17	98.1	1207	1705	7.678497	
11	2	17	89.6	1782		8.071995	
12	2	17	76.3	1402		8.741795	
13	3	17	56.4	1583	1408	9.238779	
14	3	17	85.3	1707	1887	10.084751	
15	3	17	96.6	1950	1521	10.620167	
16	2	17	68.7	1581		11.726255	

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	19	67.4	1907		1.053359	
1	1	19	73.7			2.481536	
2	3	19	98.2	1360	1728	3.011725	
3	2	19	68.8	1046		5.121265	
4	3	19	52.2	1784	1168	6.177079	1
5	1	19	71.8			7.675212	
6	2	19	96.8	1715		8.702186	
7	2	19	59.7	1848		9.845608	
8	2	19	81.2	1012		11.639237	

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	56	1408		0.575427	
1	2	14	93.7	1589		1.197911	
2	2	14	78	1235		2.358281	
3	1	14	77.8			4.338027	
4	2	14	63.8	1721		5.419795	
5	1	14	73.4			5.945724	1
6	1	14	73.1			7.362922	
7	2	14	74.2	1128		7.64152	
8	3	14	77	1150	1690	9.703898	
9	2	14	77.9	1014		10.285164	
10	3	14	53	1769	1056	11.066077	

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	19	51	1902	1207	0.402211	
1	2	19	56.3	1189		0.763862	
2	3	19	90.4	1930	1006	1.617688	
3	3	19	55.4	1438	1030	2.365863	
4	2	19	80.9	1210		2.574277	
5	2	19	58.3	1204		3.33588	
6	3	19	89.3	1028	1410	4.158767	
7	3	19	66.4	1202	1518	4.773964	
8	2	19	76.8	1670		5.558398	
9	2	19	61.7	1537		6.122836	1
10	2	19	85.3	1903		6.48622	
11	2	19	58.1	1681		7.079088	
12	1	19	95.5			7.866386	
13	3	19	94.2	1472	1445	8.349039	
14	2	19	65.5	1159		9.016688	
15	3	19	65.9	1203	1675	9.867856	
16	2	19	91.8	1233		10.14131	
17	2	19	90.2	1291		11.318512	
18	3	19	87.7	1585	1266	11.730678	

Bin5 Statistics 21

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	7	71.9	1341	1948	0.99552	
1	2	7	59.9	1994		1.503685	
2	2	7	83.6	1075		2.456976	
3	1	7	54.9			3.945407	
4	3	7	91.7	1316	1342	5.526118	1
5	2	7	50.5	1912		6.38033	
6	2	7	98.8	1492		7.636738	
7	2	7	95.5	1690		9.227808	
8	2	7	83.5	1659		9.897698	

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	91.8	1991		0.088562	
1	1	9	88.5			1.468483	
2	1	9	59.1			1.617574	
3	1	9	52.6			3.104697	
4	1	9	78.8			3.606474	
5	3	9	56.5	1536	1987	4.201185	
6	2	9	96.7	1588		4.907658	
7	1	9	58			5.914713	1
8	3	9	89.8	1909	1495	6.747798	
9	2	9	93.2	1578		7.834587	
10	3	9	50.6	1932	1001	8.20718	
11	2	9	94.8	1955		9.448572	
12	1	9	77.5			9.783575	
13	3	9	54.9	1790	1110	10.643628	
14	3	9	58.6	1032	1626	11.555335	

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	6	67.5			0.398137	1
1	3	6	93.2	1236	1854	1.228324	
2	3	6	62.1	1343	1228	2.527436	
3	2	6	77.2	1787		3.127231	
4	2	6	80.6	1600		3.833375	
5	2	6	60.3	1189		4.387791	
6	2	6	87.8	1194		5.84006	
7	3	6	55.9	1308	1095	6.232128	
8	2	6	98.9	1490		7.05211	
9	2	6	98	1274		8.483959	
10	2	6	97.4	1726		8.744004	
11	3	6	73.7	1111	1633	9.79193	
12	2	6	87.4	1313		10.975271	
13	2	6	86.2	1646		11.56016	

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	18	50.7	1386	1519	0.504535	1
1	3	18	73.3	1830	1710	0.959241	
2	3	18	99.2	1624	1549	1.809226	
3	3	18	67.8	1181	1175	2.149237	
4	2	18	50.6	1931		3.040659	
5	2	18	60	1265		3.376471	
6	2	18	53.6	1599		4.176598	
7	2	18	65.6	1136		4.888503	
8	1	18	68.3			5.485254	
9	2	18	96.8	1844		6.579204	
10	1	18	86.6			6.907076	
11	1	18	95.8			7.557826	
12	3	18	67.2	1497	1186	8.152316	
13	2	18	86.2	1987		9.137185	
14	1	18	55.6			9.56576	
15	2	18	68.6	1452		10.11422	
16	2	18	65.5	1725		11.268916	
17	2	18	96.5	1322		11.461204	

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	11	83.9			0.380917	1
1	3	11	94.4	1177	1769	1.646991	
2	2	11	77.2	1102		2.75207	
3	2	11	75.2	1906		3.290983	
4	2	11	73.5	1700		4.370321	
5	1	11	60.1			5.312654	
6	2	11	57	1930		6.479441	
7	2	11	83.5	1836		7.761831	
8	1	11	91.4			8.83324	
9	2	11	89.6	1483		9.431718	
10	3	11	85.5	1337	1755	10.312837	
11	2	11	71.1	1139		11.931987	

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	5	81.7	1837		0.607321	1
1	2	5	80.3	1694		0.834254	
2	3	5	89.9	1831	1923	1.61677	
3	2	5	67.7	1568		2.504196	
4	2	5	58.8	1840		2.536082	
5	2	5	81.8	1074		3.305357	
6	1	5	81.1			3.884451	
7	2	5	80.3	1625		4.488526	
8	1	5	65.8			5.174814	
9	1	5	94			5.837964	
10	2	5	95	1350		6.386192	
11	1	5	72.1			7.335903	
12	2	5	85.5	1235		7.981211	
13	3	5	79.5	1889	1008	8.717159	
14	1	5	81			9.453851	
15	2	5	94.1	1358		9.744152	
16	2	5	58.9	1151		10.218933	
17	3	5	71.6	1355	1384	10.765324	
18	1	5	70.5			11.828914	

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	12	66.9	1714		0.976459	1
1	1	12	53.7			1.451065	
2	2	12	73.8	1985		2.210158	
3	2	12	61.9	1217		3.454434	
4	2	12	59.6	1448		4.246837	
5	2	12	91.5	1143		5.605142	
6	2	12	92.4	1186		6.591202	
7	2	12	50.2	1140		7.010651	
8	3	12	84	1901	1687	8.054521	
9	1	12	84.1			9.538662	
10	1	12	86.5			10.206969	
11	3	12	61.4	1438	1815	11.404541	

Bin5 Statistics 28

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	10	60.2			0.511066	1
1	1	10	64.4			0.952826	
2	3	10	74.2	1006	1061	2.109951	
3	2	10	51.2	1364		3.567073	
4	3	10	93.2	1676	1046	4.579351	
5	2	10	90.5	1920		4.876358	
6	2	10	71.6	1045		6.2432	
7	2	10	67.3	1003		7.157845	
8	1	10	67.4			7.71689	
9	2	10	77.9	1743		8.542911	
10	2	10	65.6	1595		9.480187	
11	2	10	88.5	1849		10.331865	
12	1	10	67.4			11.577029	

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	19	93.2	1353	1073	0.903976	1
1	3	19	71.2	1842	1124	1.987241	
2	2	19	99.3	1701		3.36231	
3	2	19	93.6	1327		3.765996	
4	2	19	72.7	1382		5.122266	
5	3	19	57.4	1606	1187	6.55896	
6	2	19	78.2	1020		8.057457	
7	1	19	98			9.203721	
8	1	19	94.3			10.549015	
9	1	19	82			11.939152	

Bin5 Statistics 30

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	12	69.8			0.604579	1
1	3	12	98	1848	1269	1.523647	
2	3	12	71.7	1678	1146	1.762228	
3	2	12	74.5	1757		2.765119	
4	3	12	56.7	1357	1263	3.74898	
5	2	12	79	1388		4.650212	
6	3	12	90.3	1196	1485	5.023549	
7	1	12	63.9			5.614802	
8	3	12	63.4	1685	1194	6.735022	
9	2	12	82.4	1069		7.9355	
10	1	12	98.3			8.500239	
11	2	12	56.3	1025		9.083066	
12	3	12	65.8	1942	1143	9.810197	
13	3	12	74.4	1272	1145	11.114607	
14	2	12	62.6	1754		11.662439	

Table-6 Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)	Hopping Sequence
1	5260	9	1	333	1	5627.0, 5530.0, 5539.0, 5474.0, 5624.0, 5706.0, 5541.0, 5407.0, 5429.0, 5453.0, 5616.0, 5511.0, 5694.0, 5403.0, 5695.0, 5649.0, 5434.0, 5485.0, 5560.0, 5345.0, 5348.0, 5322.0, 5385.0, 5702.0, 5643.0, 5270.0, 5331.0, 5454.0, 5666.0, 5552.0, 5679.0, 5710.0, 5584.0, 5317.0, 5534.0, 5370.0, 5506.0, 5297.0, 5383.0, 5529.0, 5628.0, 5438.0, 5330.0, 5397.0, 5632.0, 5258.0, 5696.0, 5526.0, 5301.0, 5461.0, 5303.0, 5374.0, 5282.0, 5412.0, 5610.0, 5416.0, 5272.0, 5586.0, 5447.0, 5567.0, 5469.0, 5380.0, 5503.0, 5553.0, 5638.0, 5439.0, 5612.0, 5581.0, 5436.0, 5662.0, 5685.0, 5287.0, 5693.0, 5626.0, 5698.0, 5395.0, 5417.0, 5633.0, 5667.0, 5491.0, 5481.0, 5280.0, 5314.0, 5465.0, 5576.0, 5690.0, 5559.0, 5683.0, 5451.0, 5386.0, 5291.0, 5665.0, 5489.0, 5513.0, 5644.0, 5545.0, 5479.0, 5338.0, 5389.0, 5647.0 (number of hits: 1)
2	5260	9	1	333	1	5571.0, 5428.0, 5521.0, 5509.0, 5619.0, 5536.0, 5552.0, 5616.0, 5707.0, 5325.0, 5478.0, 5464.0, 5577.0, 5420.0, 5460.0, 5338.0, 5604.0, 5664.0, 5596.0, 5641.0, 5496.0, 5632.0, 5591.0, 5489.0, 5508.0, 5435.0, 5537.0, 5558.0, 5474.0, 5557.0, 5711.0, 5592.0, 5686.0, 5369.0, 5410.0, 5350.0, 5305.0, 5691.0, 5670.0, 5346.0, 5433.0, 5448.0, 5387.0, 5648.0, 5637.0, 5412.0, 5292.0, 5714.0, 5289.0, 5351.0, 5441.0, 5636.0, 5533.0, 5388.0, 5300.0, 5720.0, 5459.0, 5303.0, 5451.0, 5425.0, 5723.0, 5682.0, 5696.0, 5409.0, 5389.0, 5594.0, 5356.0, 5347.0, 5576.0, 5340.0, 5454.0, 5355.0, 5486.0, 5252.0, 5308.0, 5345.0, 5555.0, 5492.0, 5697.0, 5595.0, 5483.0, 5683.0, 5449.0, 5532.0, 5352.0, 5360.0, 5334.0, 5507.0, 5379.0, 5373.0, 5512.0, 5678.0, 5578.0, 5494.0, 5701.0, 5525.0, 5363.0, 5613.0, 5544.0, 5491.0 (number of hits: 1)
3	5260	9	1	333	1	5616.0, 5401.0, 5685.0, 5450.0, 5309.0, 5712.0, 5298.0, 5408.0, 5448.0, 5534.0, 5263.0, 5315.0, 5603.0, 5253.0, 5365.0, 5331.0, 5538.0, 5394.0, 5586.0, 5578.0, 5507.0, 5690.0, 5618.0, 5514.0, 5580.0, 5620.0, 5284.0, 5585.0, 5561.0, 5323.0, 5587.0, 5492.0, 5451.0, 5643.0, 5549.0, 5294.0, 5427.0, 5442.0, 5504.0, 5559.0, 5445.0, 5688.0, 5349.0, 5595.0, 5516.0, 5271.0, 5714.0, 5709.0, 5463.0, 5533.0, 5594.0, 5713.0, 5583.0, 5482.0, 5645.0,

						5430.0, 5396.0, 5671.0, 5301.0, 5588.0, 5593.0, 5289.0, 5436.0, 5317.0, 5454.0, 5495.0, 5376.0, 5325.0, 5370.0, 5515.0, 5468.0, 5656.0, 5707.0, 5576.0, 5406.0, 5259.0, 5407.0, 5652.0, 5467.0, 5461.0, 5568.0, 5412.0, 5254.0, 5369.0, 5502.0, 5642.0, 5275.0, 5581.0, 5484.0, 5469.0, 5535.0, 5282.0, 5624.0, 5640.0, 5505.0, 5565.0, 5697.0, 5383.0, 5547.0, 5718.0 (number of hits: 4)
4	5260	9	1	333	1	5600.0, 5570.0, 5335.0, 5461.0, 5617.0, 5283.0, 5278.0, 5428.0, 5676.0, 5412.0, 5652.0, 5253.0, 5613.0, 5302.0, 5522.0, 5356.0, 5519.0, 5449.0, 5668.0, 5423.0, 5365.0, 5699.0, 5405.0, 5673.0, 5329.0, 5495.0, 5659.0, 5483.0, 5409.0, 5327.0, 5380.0, 5622.0, 5455.0, 5534.0, 5322.0, 5599.0, 5334.0, 5303.0, 5376.0, 5445.0, 5383.0, 5321.0, 5521.0, 5530.0, 5433.0, 5532.0, 5506.0, 5698.0, 5621.0, 5694.0, 5604.0, 5337.0, 5441.0, 5496.0, 5323.0, 5341.0, 5703.0, 5346.0, 5637.0, 5340.0, 5420.0, 5686.0, 5632.0, 5629.0, 5557.0, 5417.0, 5616.0, 5262.0, 5684.0, 5615.0, 5343.0, 5393.0, 5643.0, 5705.0, 5634.0, 5273.0, 5584.0, 5256.0, 5563.0, 5551.0, 5320.0, 5371.0, 5454.0, 5286.0, 5566.0, 5502.0, 5460.0, 5507.0, 5471.0, 5685.0, 5536.0, 5709.0, 5525.0, 5671.0, 5552.0, 5688.0, 5665.0, 5560.0, 5456.0, 5558.0 (number of hits: 3)
5	5260	9	1	333	1	5418.0, 5479.0, 5294.0, 5491.0, 5252.0, 5659.0, 5355.0, 5564.0, 5568.0, 5291.0, 5569.0, 5716.0, 5650.0, 5330.0, 5392.0, 5572.0, 5579.0, 5431.0, 5368.0, 5684.0, 5602.0, 5555.0, 5384.0, 5362.0, 5400.0, 5401.0, 5710.0, 5518.0, 5501.0, 5567.0, 5430.0, 5435.0, 5523.0, 5634.0, 5311.0, 5565.0, 5310.0, 5536.0, 5627.0, 5621.0, 5253.0, 5686.0, 5661.0, 5306.0, 5696.0, 5327.0, 5284.0, 5577.0, 5571.0, 5644.0, 5573.0, 5464.0, 5385.0, 5704.0, 5562.0, 5506.0, 5613.0, 5509.0, 5421.0, 5666.0, 5318.0, 5460.0, 5364.0, 5295.0, 5372.0, 5344.0, 5282.0, 5706.0, 5529.0, 5263.0, 5446.0, 5448.0, 5283.0, 5589.0, 5423.0, 5669.0, 5715.0, 5554.0, 5527.0, 5514.0, 5628.0, 5679.0, 5687.0, 5624.0, 5535.0, 5490.0, 5524.0, 5531.0, 5324.0, 5598.0, 5601.0, 5371.0, 5414.0, 5407.0, 5361.0, 5563.0, 5338.0, 5425.0, 5505.0, 5270.0 (number of hits: 3)
6	5260	9	1	333	1	5375.0, 5677.0, 5503.0, 5423.0, 5449.0, 5412.0, 5656.0, 5332.0, 5439.0, 5616.0, 5584.0, 5522.0, 5290.0, 5521.0, 5594.0, 5622.0, 5484.0, 5557.0, 5520.0, 5343.0, 5308.0, 5525.0, 5441.0, 5254.0, 5328.0, 5281.0, 5262.0, 5556.0, 5621.0, 5468.0, 5368.0, 5593.0, 5651.0, 5466.0, 5565.0,

						5637.0, 5655.0, 5536.0, 5633.0, 5562.0, 5477.0, 5292.0, 5623.0, 5641.0, 5481.0, 5306.0, 5631.0, 5395.0, 5582.0, 5659.0, 5396.0, 5275.0, 5383.0, 5349.0, 5475.0, 5324.0, 5447.0, 5418.0, 5352.0, 5428.0, 5291.0, 5374.0, 5264.0, 5390.0, 5596.0, 5457.0, 5414.0, 5686.0, 5495.0, 5356.0, 5704.0, 5703.0, 5387.0, 5559.0, 5568.0, 5379.0, 5618.0, 5514.0, 5682.0, 5530.0, 5454.0, 5676.0, 5444.0, 5590.0, 5500.0, 5705.0, 5487.0, 5316.0, 5670.0, 5305.0, 5519.0, 5561.0, 5691.0, 5303.0, 5455.0, 5451.0, 5547.0, 5504.0, 5706.0, 5419.0 (number of hits: 3)
7	5260	9	1	333	1	5679.0, 5358.0, 5686.0, 5721.0, 5700.0, 5568.0, 5528.0, 5341.0, 5405.0, 5629.0, 5413.0, 5396.0, 5527.0, 5335.0, 5605.0, 5719.0, 5524.0, 5437.0, 5296.0, 5489.0, 5321.0, 5636.0, 5439.0, 5311.0, 5389.0, 5707.0, 5553.0, 5583.0, 5620.0, 5382.0, 5373.0, 5648.0, 5517.0, 5595.0, 5608.0, 5526.0, 5691.0, 5607.0, 5701.0, 5520.0, 5345.0, 5434.0, 5537.0, 5681.0, 5692.0, 5451.0, 5313.0, 5316.0, 5503.0, 5675.0, 5286.0, 5431.0, 5360.0, 5585.0, 5380.0, 5724.0, 5368.0, 5375.0, 5482.0, 5348.0, 5565.0, 5582.0, 5589.0, 5346.0, 5638.0, 5588.0, 5387.0, 5591.0, 5442.0, 5407.0, 5654.0, 5465.0, 5253.0, 5615.0, 5710.0, 5281.0, 5404.0, 5386.0, 5546.0, 5420.0, 5702.0, 5510.0, 5376.0, 5277.0, 5412.0, 5350.0, 5564.0, 5543.0, 5428.0, 5333.0, 5325.0, 5676.0, 5426.0, 5354.0, 5284.0, 5273.0, 5466.0, 5374.0, 5720.0, 5584.0 (number of hits: 1)
8	5260	9	1	333	1	5652.0, 5519.0, 5496.0, 5551.0, 5342.0, 5427.0, 5658.0, 5714.0, 5347.0, 5385.0, 5684.0, 5609.0, 5534.0, 5585.0, 5369.0, 5446.0, 5382.0, 5484.0, 5613.0, 5459.0, 5689.0, 5716.0, 5495.0, 5302.0, 5319.0, 5320.0, 5628.0, 5447.0, 5562.0, 5673.0, 5504.0, 5709.0, 5630.0, 5307.0, 5705.0, 5394.0, 5629.0, 5472.0, 5566.0, 5334.0, 5623.0, 5379.0, 5464.0, 5674.0, 5631.0, 5660.0, 5431.0, 5461.0, 5532.0, 5482.0, 5261.0, 5305.0, 5510.0, 5413.0, 5279.0, 5448.0, 5643.0, 5706.0, 5694.0, 5598.0, 5467.0, 5722.0, 5700.0, 5423.0, 5254.0, 5329.0, 5255.0, 5318.0, 5650.0, 5421.0, 5353.0, 5663.0, 5543.0, 5516.0, 5521.0, 5580.0, 5603.0, 5371.0, 5332.0, 5686.0, 5453.0, 5637.0, 5289.0, 5257.0, 5536.0, 5625.0, 5515.0, 5611.0, 5398.0, 5553.0, 5313.0, 5444.0, 5688.0, 5574.0, 5487.0, 5463.0, 5468.0, 5599.0, 5556.0, 5525.0 (number of hits: 4)
9	5260	9	1	333	1	5625.0, 5617.0, 5584.0, 5351.0, 5436.0, 5340.0, 5516.0, 5288.0, 5406.0, 5465.0, 5326.0, 5336.0, 5708.0, 5534.0, 5434.0,

						5353.0, 5383.0, 5697.0, 5315.0, 5543.0, 5361.0, 5333.0, 5699.0, 5576.0, 5601.0, 5314.0, 5551.0, 5323.0, 5580.0, 5301.0, 5566.0, 5492.0, 5439.0, 5508.0, 5662.0, 5407.0, 5347.0, 5458.0, 5452.0, 5680.0, 5473.0, 5715.0, 5339.0, 5504.0, 5525.0, 5594.0, 5486.0, 5493.0, 5419.0, 5684.0, 5447.0, 5360.0, 5565.0, 5343.0, 5696.0, 5644.0, 5571.0, 5595.0, 5423.0, 5512.0, 5454.0, 5532.0, 5256.0, 5564.0, 5691.0, 5305.0, 5431.0, 5588.0, 5257.0, 5312.0, 5618.0, 5630.0, 5260.0, 5280.0, 5374.0, 5711.0, 5294.0, 5437.0, 5410.0, 5685.0, 5270.0, 5368.0, 5497.0, 5638.0, 5455.0, 5562.0, 5645.0, 5476.0, 5262.0, 5634.0, 5346.0, 5524.0, 5632.0, 5609.0, 5308.0, 5503.0, 5397.0, 5650.0, 5581.0, 5384.0 (number of hits: 4)
10	5260	9	1	333	1	5349.0, 5440.0, 5588.0, 5365.0, 5489.0, 5674.0, 5418.0, 5328.0, 5587.0, 5579.0, 5397.0, 5267.0, 5515.0, 5594.0, 5584.0, 5369.0, 5624.0, 5438.0, 5436.0, 5595.0, 5606.0, 5710.0, 5673.0, 5487.0, 5518.0, 5540.0, 5694.0, 5619.0, 5368.0, 5420.0, 5331.0, 5572.0, 5560.0, 5653.0, 5678.0, 5545.0, 5276.0, 5334.0, 5598.0, 5467.0, 5377.0, 5407.0, 5577.0, 5297.0, 5471.0, 5629.0, 5417.0, 5347.0, 5668.0, 5550.0, 5289.0, 5431.0, 5712.0, 5568.0, 5449.0, 5505.0, 5663.0, 5302.0, 5473.0, 5627.0, 5561.0, 5686.0, 5539.0, 5600.0, 5259.0, 5574.0, 5500.0, 5479.0, 5555.0, 5569.0, 5506.0, 5542.0, 5257.0, 5305.0, 5430.0, 5526.0, 5318.0, 5573.0, 5278.0, 5385.0, 5333.0, 5719.0, 5558.0, 5576.0, 5265.0, 5486.0, 5390.0, 5266.0, 5255.0, 5324.0, 5527.0, 5665.0, 5363.0, 5355.0, 5683.0, 5684.0, 5351.0, 5476.0, 5718.0, 5641.0 (number of hits: 6)
11	5260	9	1	333	1	5410.0, 5415.0, 5292.0, 5538.0, 5670.0, 5271.0, 5258.0, 5452.0, 5712.0, 5629.0, 5645.0, 5405.0, 5653.0, 5610.0, 5429.0, 5607.0, 5559.0, 5716.0, 5638.0, 5637.0, 5705.0, 5343.0, 5306.0, 5533.0, 5353.0, 5639.0, 5713.0, 5357.0, 5560.0, 5612.0, 5385.0, 5434.0, 5581.0, 5448.0, 5269.0, 5547.0, 5334.0, 5345.0, 5489.0, 5569.0, 5662.0, 5374.0, 5449.0, 5709.0, 5404.0, 5324.0, 5691.0, 5708.0, 5574.0, 5251.0, 5701.0, 5431.0, 5606.0, 5284.0, 5267.0, 5717.0, 5275.0, 5303.0, 5372.0, 5497.0, 5362.0, 5425.0, 5389.0, 5707.0, 5300.0, 5512.0, 5620.0, 5469.0, 5577.0, 5605.0, 5352.0, 5583.0, 5329.0, 5387.0, 5517.0, 5591.0, 5572.0, 5566.0, 5474.0, 5619.0, 5695.0, 5561.0, 5280.0, 5550.0, 5335.0, 5262.0, 5501.0, 5403.0, 5505.0, 5514.0, 5648.0, 5590.0, 5427.0, 5635.0, 5295.0, 5255.0, 5690.0, 5609.0, 5436.0, 5360.0

						(number of hits: 6)
12	5260	9	1	333	1	5667.0, 5540.0, 5662.0, 5655.0, 5512.0, 5646.0, 5326.0, 5663.0, 5630.0, 5684.0, 5687.0, 5254.0, 5375.0, 5319.0, 5528.0, 5431.0, 5331.0, 5422.0, 5352.0, 5546.0, 5334.0, 5287.0, 5689.0, 5518.0, 5654.0, 5439.0, 5427.0, 5673.0, 5505.0, 5624.0, 5618.0, 5688.0, 5278.0, 5598.0, 5302.0, 5542.0, 5719.0, 5274.0, 5612.0, 5262.0, 5416.0, 5265.0, 5532.0, 5682.0, 5441.0, 5311.0, 5409.0, 5345.0, 5700.0, 5697.0, 5686.0, 5676.0, 5301.0, 5321.0, 5377.0, 5458.0, 5393.0, 5425.0, 5402.0, 5657.0, 5437.0, 5492.0, 5640.0, 5277.0, 5327.0, 5255.0, 5709.0, 5559.0, 5680.0, 5679.0, 5480.0, 5362.0, 5256.0, 5328.0, 5562.0, 5297.0, 5250.0, 5420.0, 5342.0, 5675.0, 5392.0, 5467.0, 5716.0, 5310.0, 5436.0, 5641.0, 5415.0, 5312.0, 5348.0, 5485.0, 5350.0, 5423.0, 5257.0, 5503.0, 5300.0, 5653.0, 5477.0, 5513.0, 5658.0, 5715.0 (number of hits: 7)
13	5260	9	1	333	1	5503.0, 5516.0, 5408.0, 5501.0, 5251.0, 5655.0, 5525.0, 5580.0, 5446.0, 5272.0, 5370.0, 5325.0, 5481.0, 5337.0, 5441.0, 5416.0, 5274.0, 5541.0, 5373.0, 5543.0, 5476.0, 5341.0, 5681.0, 5321.0, 5676.0, 5374.0, 5688.0, 5265.0, 5539.0, 5342.0, 5259.0, 5352.0, 5293.0, 5714.0, 5722.0, 5558.0, 5492.0, 5671.0, 5349.0, 5323.0, 5281.0, 5675.0, 5371.0, 5467.0, 5457.0, 5353.0, 5427.0, 5291.0, 5431.0, 5573.0, 5685.0, 5652.0, 5659.0, 5517.0, 5504.0, 5399.0, 5690.0, 5529.0, 5318.0, 5646.0, 5710.0, 5526.0, 5594.0, 5496.0, 5711.0, 5382.0, 5536.0, 5564.0, 5566.0, 5700.0, 5478.0, 5363.0, 5313.0, 5257.0, 5548.0, 5708.0, 5422.0, 5485.0, 5592.0, 5585.0, 5414.0, 5365.0, 5262.0, 5290.0, 5493.0, 5470.0, 5430.0, 5680.0, 5462.0, 5627.0, 5633.0, 5483.0, 5418.0, 5706.0, 5375.0, 5421.0, 5717.0, 5599.0, 5284.0, 5384.0 (number of hits: 5)
14	5260	9	1	333	1	5339.0, 5379.0, 5663.0, 5605.0, 5381.0, 5463.0, 5439.0, 5622.0, 5481.0, 5550.0, 5438.0, 5403.0, 5275.0, 5561.0, 5539.0, 5414.0, 5436.0, 5657.0, 5688.0, 5532.0, 5637.0, 5581.0, 5359.0, 5712.0, 5344.0, 5507.0, 5612.0, 5471.0, 5473.0, 5670.0, 5429.0, 5706.0, 5494.0, 5464.0, 5573.0, 5406.0, 5601.0, 5594.0, 5629.0, 5458.0, 5679.0, 5719.0, 5540.0, 5570.0, 5697.0, 5328.0, 5715.0, 5492.0, 5446.0, 5616.0, 5271.0, 5699.0, 5677.0, 5598.0, 5350.0, 5369.0, 5394.0, 5542.0, 5456.0, 5419.0, 5659.0, 5652.0, 5277.0, 5267.0, 5355.0, 5374.0, 5330.0, 5342.0, 5404.0, 5520.0, 5641.0, 5421.0, 5284.0, 5352.0, 5363.0, 5500.0, 5386.0, 5289.0, 5326.0, 5701.0,

						5608.0, 5647.0, 5320.0, 5567.0, 5336.0, 5694.0, 5685.0, 5294.0, 5626.0, 5334.0, 5470.0, 5566.0, 5314.0, 5666.0, 5646.0, 5390.0, 5516.0, 5291.0, 5635.0, 5293.0 (number of hits: 1)
15	5260	9	1	333	1	5346.0, 5614.0, 5269.0, 5681.0, 5347.0, 5448.0, 5374.0, 5387.0, 5255.0, 5722.0, 5323.0, 5446.0, 5317.0, 5579.0, 5667.0, 5391.0, 5350.0, 5569.0, 5536.0, 5652.0, 5460.0, 5549.0, 5443.0, 5492.0, 5331.0, 5349.0, 5658.0, 5289.0, 5426.0, 5724.0, 5434.0, 5306.0, 5508.0, 5356.0, 5721.0, 5598.0, 5264.0, 5480.0, 5546.0, 5294.0, 5322.0, 5300.0, 5505.0, 5625.0, 5425.0, 5305.0, 5326.0, 5429.0, 5320.0, 5445.0, 5318.0, 5369.0, 5357.0, 5483.0, 5308.0, 5678.0, 5493.0, 5575.0, 5403.0, 5692.0, 5440.0, 5398.0, 5541.0, 5351.0, 5624.0, 5275.0, 5602.0, 5419.0, 5465.0, 5272.0, 5551.0, 5517.0, 5642.0, 5432.0, 5707.0, 5680.0, 5552.0, 5687.0, 5276.0, 5708.0, 5531.0, 5386.0, 5464.0, 5645.0, 5420.0, 5519.0, 5283.0, 5571.0, 5311.0, 5613.0, 5664.0, 5342.0, 5565.0, 5671.0, 5660.0, 5669.0, 5632.0, 5589.0, 5392.0, 5637.0 (number of hits: 3)
16	5260	9	1	333	1	5462.0, 5667.0, 5282.0, 5336.0, 5574.0, 5278.0, 5489.0, 5284.0, 5698.0, 5696.0, 5506.0, 5403.0, 5331.0, 5335.0, 5253.0, 5620.0, 5631.0, 5411.0, 5383.0, 5374.0, 5348.0, 5533.0, 5673.0, 5451.0, 5402.0, 5693.0, 5511.0, 5384.0, 5585.0, 5337.0, 5534.0, 5522.0, 5434.0, 5415.0, 5295.0, 5582.0, 5288.0, 5718.0, 5676.0, 5254.0, 5609.0, 5703.0, 5503.0, 5445.0, 5670.0, 5289.0, 5596.0, 5269.0, 5504.0, 5419.0, 5389.0, 5632.0, 5643.0, 5368.0, 5592.0, 5280.0, 5662.0, 5706.0, 5392.0, 5605.0, 5712.0, 5433.0, 5555.0, 5435.0, 5665.0, 5689.0, 5338.0, 5691.0, 5642.0, 5682.0, 5538.0, 5512.0, 5444.0, 5344.0, 5672.0, 5699.0, 5513.0, 5456.0, 5376.0, 5700.0, 5701.0, 5564.0, 5273.0, 5615.0, 5721.0, 5421.0, 5309.0, 5493.0, 5629.0, 5500.0, 5581.0, 5377.0, 5443.0, 5569.0, 5526.0, 5695.0, 5468.0, 5525.0, 5436.0, 5262.0 (number of hits: 4)
17	5260	9	1	333	1	5586.0, 5320.0, 5475.0, 5541.0, 5434.0, 5265.0, 5517.0, 5319.0, 5270.0, 5701.0, 5465.0, 5532.0, 5408.0, 5568.0, 5414.0, 5478.0, 5643.0, 5372.0, 5681.0, 5516.0, 5396.0, 5613.0, 5416.0, 5410.0, 5335.0, 5256.0, 5598.0, 5490.0, 5318.0, 5616.0, 5642.0, 5483.0, 5297.0, 5691.0, 5605.0, 5531.0, 5491.0, 5622.0, 5308.0, 5658.0, 5500.0, 5413.0, 5472.0, 5536.0, 5523.0, 5607.0, 5274.0, 5487.0, 5573.0, 5384.0, 5276.0, 5326.0, 5602.0, 5502.0, 5632.0, 5441.0, 5310.0, 5423.0, 5445.0, 5592.0,

						5352.0, 5594.0, 5670.0, 5351.0, 5361.0, 5473.0, 5601.0, 5706.0, 5391.0, 5637.0, 5572.0, 5438.0, 5397.0, 5618.0, 5462.0, 5538.0, 5262.0, 5672.0, 5617.0, 5409.0, 5628.0, 5655.0, 5661.0, 5477.0, 5723.0, 5540.0, 5644.0, 5584.0, 5329.0, 5385.0, 5286.0, 5311.0, 5417.0, 5509.0, 5510.0, 5359.0, 5366.0, 5589.0, 5720.0, 5388.0 (number of hits: 3)
18	5260	9	1	333	1	5567.0, 5288.0, 5269.0, 5578.0, 5390.0, 5474.0, 5702.0, 5338.0, 5411.0, 5616.0, 5721.0, 5426.0, 5554.0, 5661.0, 5306.0, 5659.0, 5551.0, 5537.0, 5280.0, 5643.0, 5695.0, 5260.0, 5624.0, 5579.0, 5266.0, 5429.0, 5458.0, 5259.0, 5705.0, 5650.0, 5665.0, 5471.0, 5709.0, 5393.0, 5569.0, 5281.0, 5642.0, 5302.0, 5311.0, 5294.0, 5399.0, 5425.0, 5297.0, 5564.0, 5406.0, 5276.0, 5694.0, 5422.0, 5452.0, 5334.0, 5639.0, 5593.0, 5658.0, 5332.0, 5262.0, 5516.0, 5603.0, 5689.0, 5348.0, 5398.0, 5360.0, 5441.0, 5434.0, 5483.0, 5353.0, 5623.0, 5577.0, 5699.0, 5384.0, 5606.0, 5515.0, 5402.0, 5688.0, 5296.0, 5379.0, 5370.0, 5682.0, 5523.0, 5505.0, 5640.0, 5374.0, 5518.0, 5461.0, 5437.0, 5690.0, 5704.0, 5468.0, 5634.0, 5517.0, 5448.0, 5495.0, 5580.0, 5261.0, 5600.0, 5594.0, 5408.0, 5341.0, 5507.0, 5565.0, 5522.0 (number of hits: 6)
19	5260	9	1	333	1	5719.0, 5593.0, 5649.0, 5521.0, 5668.0, 5580.0, 5524.0, 5353.0, 5708.0, 5285.0, 5417.0, 5624.0, 5703.0, 5494.0, 5493.0, 5352.0, 5314.0, 5536.0, 5693.0, 5515.0, 5503.0, 5656.0, 5687.0, 5655.0, 5528.0, 5403.0, 5423.0, 5455.0, 5278.0, 5542.0, 5374.0, 5709.0, 5276.0, 5447.0, 5382.0, 5461.0, 5550.0, 5411.0, 5678.0, 5606.0, 5647.0, 5611.0, 5646.0, 5308.0, 5487.0, 5402.0, 5688.0, 5394.0, 5702.0, 5327.0, 5717.0, 5650.0, 5495.0, 5434.0, 5543.0, 5255.0, 5531.0, 5268.0, 5674.0, 5600.0, 5492.0, 5701.0, 5257.0, 5706.0, 5329.0, 5692.0, 5497.0, 5481.0, 5602.0, 5470.0, 5477.0, 5671.0, 5568.0, 5677.0, 5443.0, 5368.0, 5516.0, 5557.0, 5637.0, 5540.0, 5681.0, 5670.0, 5629.0, 5391.0, 5628.0, 5554.0, 5467.0, 5558.0, 5264.0, 5425.0, 5431.0, 5565.0, 5675.0, 5361.0, 5441.0, 5354.0, 5640.0, 5279.0, 5400.0, 5412.0 (number of hits: 4)
20	5260	9	1	333	1	5610.0, 5500.0, 5388.0, 5504.0, 5351.0, 5313.0, 5663.0, 5607.0, 5687.0, 5658.0, 5263.0, 5589.0, 5612.0, 5346.0, 5391.0, 5266.0, 5398.0, 5427.0, 5361.0, 5664.0, 5471.0, 5513.0, 5683.0, 5438.0, 5463.0, 5270.0, 5616.0, 5453.0, 5521.0, 5439.0, 5486.0, 5508.0, 5461.0, 5465.0, 5587.0, 5684.0, 5489.0, 5583.0, 5652.0, 5335.0,

						5327.0, 5514.0, 5632.0, 5671.0, 5415.0, 5503.0, 5631.0, 5599.0, 5563.0, 5670.0, 5385.0, 5447.0, 5422.0, 5633.0, 5425.0, 5297.0, 5400.0, 5519.0, 5565.0, 5525.0, 5401.0, 5561.0, 5691.0, 5331.0, 5495.0, 5545.0, 5402.0, 5466.0, 5330.0, 5386.0, 5623.0, 5342.0, 5423.0, 5310.0, 5302.0, 5628.0, 5584.0, 5705.0, 5393.0, 5321.0, 5518.0, 5668.0, 5685.0, 5544.0, 5362.0, 5464.0, 5511.0, 5721.0, 5472.0, 5597.0, 5291.0, 5690.0, 5408.0, 5290.0, 5409.0, 5582.0, 5509.0, 5354.0, 5611.0, 5420.0 (number of hits: 2)
21	5260	9	1	333	1	5326.0, 5639.0, 5619.0, 5398.0, 5479.0, 5533.0, 5611.0, 5408.0, 5663.0, 5466.0, 5283.0, 5701.0, 5693.0, 5404.0, 5465.0, 5564.0, 5337.0, 5717.0, 5396.0, 5407.0, 5668.0, 5692.0, 5250.0, 5713.0, 5463.0, 5344.0, 5645.0, 5460.0, 5319.0, 5651.0, 5312.0, 5443.0, 5433.0, 5609.0, 5574.0, 5715.0, 5667.0, 5583.0, 5622.0, 5602.0, 5617.0, 5534.0, 5515.0, 5655.0, 5501.0, 5491.0, 5572.0, 5642.0, 5570.0, 5281.0, 5593.0, 5338.0, 5265.0, 5568.0, 5441.0, 5426.0, 5438.0, 5598.0, 5316.0, 5282.0, 5569.0, 5403.0, 5581.0, 5299.0, 5412.0, 5439.0, 5276.0, 5285.0, 5449.0, 5436.0, 5457.0, 5363.0, 5325.0, 5259.0, 5375.0, 5560.0, 5440.0, 5703.0, 5377.0, 5453.0, 5536.0, 5261.0, 5624.0, 5571.0, 5331.0, 5643.0, 5271.0, 5339.0, 5422.0, 5318.0, 5688.0, 5605.0, 5290.0, 5341.0, 5327.0, 5495.0, 5513.0, 5311.0, 5309.0, 5676.0 (number of hits: 4)
22	5260	9	1	333	1	5421.0, 5710.0, 5330.0, 5417.0, 5645.0, 5395.0, 5447.0, 5327.0, 5305.0, 5626.0, 5700.0, 5593.0, 5506.0, 5410.0, 5701.0, 5442.0, 5699.0, 5402.0, 5665.0, 5369.0, 5425.0, 5291.0, 5549.0, 5547.0, 5674.0, 5601.0, 5299.0, 5471.0, 5586.0, 5565.0, 5486.0, 5411.0, 5451.0, 5569.0, 5715.0, 5296.0, 5331.0, 5707.0, 5646.0, 5677.0, 5361.0, 5553.0, 5611.0, 5717.0, 5673.0, 5561.0, 5454.0, 5379.0, 5570.0, 5524.0, 5630.0, 5326.0, 5435.0, 5377.0, 5285.0, 5288.0, 5343.0, 5282.0, 5339.0, 5456.0, 5316.0, 5539.0, 5397.0, 5378.0, 5588.0, 5633.0, 5590.0, 5283.0, 5530.0, 5574.0, 5445.0, 5450.0, 5391.0, 5276.0, 5537.0, 5452.0, 5572.0, 5458.0, 5719.0, 5591.0, 5514.0, 5694.0, 5534.0, 5690.0, 5357.0, 5281.0, 5648.0, 5510.0, 5426.0, 5634.0, 5622.0, 5469.0, 5420.0, 5317.0, 5636.0, 5526.0, 5597.0, 5577.0, 5545.0, 5257.0 (number of hits: 1)
23	5260	9	1	333	1	5502.0, 5567.0, 5591.0, 5295.0, 5555.0, 5583.0, 5528.0, 5390.0, 5298.0, 5293.0, 5664.0, 5633.0, 5615.0, 5554.0, 5314.0, 5355.0, 5534.0, 5385.0, 5277.0, 5545.0,

						5556.0, 5540.0, 5377.0, 5405.0, 5562.0, 5416.0, 5524.0, 5689.0, 5568.0, 5266.0, 5550.0, 5428.0, 5497.0, 5288.0, 5706.0, 5486.0, 5538.0, 5480.0, 5267.0, 5522.0, 5320.0, 5463.0, 5283.0, 5445.0, 5589.0, 5717.0, 5334.0, 5263.0, 5582.0, 5389.0, 5410.0, 5415.0, 5603.0, 5629.0, 5609.0, 5294.0, 5333.0, 5654.0, 5723.0, 5346.0, 5357.0, 5599.0, 5656.0, 5624.0, 5709.0, 5639.0, 5483.0, 5443.0, 5482.0, 5478.0, 5370.0, 5694.0, 5503.0, 5588.0, 5464.0, 5409.0, 5564.0, 5317.0, 5335.0, 5359.0, 5395.0, 5715.0, 5530.0, 5626.0, 5368.0, 5635.0, 5362.0, 5435.0, 5309.0, 5690.0, 5648.0, 5354.0, 5650.0, 5581.0, 5484.0, 5349.0, 5373.0, 5544.0, 5714.0, 5336.0 (number of hits: 3)
24	5260	9	1	333	1	5635.0, 5665.0, 5629.0, 5531.0, 5478.0, 5589.0, 5518.0, 5469.0, 5480.0, 5577.0, 5358.0, 5489.0, 5583.0, 5542.0, 5413.0, 5264.0, 5444.0, 5417.0, 5465.0, 5435.0, 5271.0, 5529.0, 5696.0, 5367.0, 5329.0, 5467.0, 5441.0, 5549.0, 5615.0, 5709.0, 5401.0, 5688.0, 5643.0, 5711.0, 5618.0, 5671.0, 5551.0, 5719.0, 5607.0, 5334.0, 5350.0, 5268.0, 5389.0, 5675.0, 5503.0, 5634.0, 5293.0, 5403.0, 5307.0, 5681.0, 5572.0, 5695.0, 5486.0, 5691.0, 5598.0, 5274.0, 5356.0, 5592.0, 5306.0, 5708.0, 5596.0, 5463.0, 5608.0, 5347.0, 5578.0, 5281.0, 5416.0, 5533.0, 5637.0, 5540.0, 5667.0, 5649.0, 5424.0, 5338.0, 5522.0, 5698.0, 5477.0, 5627.0, 5595.0, 5300.0, 5404.0, 5537.0, 5493.0, 5448.0, 5395.0, 5470.0, 5355.0, 5624.0, 5315.0, 5652.0, 5383.0, 5683.0, 5483.0, 5498.0, 5273.0, 5636.0, 5460.0, 5613.0, 5611.0, 5621.0 (number of hits: 2)
25	5260	9	1	333	1	5402.0, 5400.0, 5526.0, 5671.0, 5663.0, 5677.0, 5506.0, 5415.0, 5450.0, 5391.0, 5483.0, 5478.0, 5430.0, 5265.0, 5448.0, 5360.0, 5542.0, 5405.0, 5305.0, 5293.0, 5443.0, 5555.0, 5674.0, 5446.0, 5721.0, 5299.0, 5567.0, 5681.0, 5536.0, 5680.0, 5493.0, 5274.0, 5399.0, 5396.0, 5699.0, 5575.0, 5421.0, 5447.0, 5344.0, 5636.0, 5307.0, 5654.0, 5661.0, 5470.0, 5668.0, 5612.0, 5390.0, 5273.0, 5623.0, 5481.0, 5520.0, 5381.0, 5553.0, 5605.0, 5433.0, 5300.0, 5310.0, 5662.0, 5491.0, 5559.0, 5550.0, 5635.0, 5282.0, 5537.0, 5392.0, 5362.0, 5711.0, 5266.0, 5660.0, 5600.0, 5565.0, 5318.0, 5419.0, 5625.0, 5590.0, 5535.0, 5595.0, 5501.0, 5602.0, 5417.0, 5432.0, 5460.0, 5490.0, 5359.0, 5386.0, 5292.0, 5257.0, 5369.0, 5524.0, 5589.0, 5629.0, 5710.0, 5279.0, 5283.0, 5579.0, 5648.0, 5371.0, 5467.0, 5697.0, 5385.0 (number of hits: 3)

26	5260	9	1	333	1	5661.0, 5531.0, 5481.0, 5487.0, 5505.0, 5504.0, 5460.0, 5263.0, 5429.0, 5673.0, 5509.0, 5296.0, 5418.0, 5301.0, 5471.0, 5310.0, 5335.0, 5270.0, 5588.0, 5434.0, 5608.0, 5561.0, 5479.0, 5476.0, 5557.0, 5566.0, 5440.0, 5621.0, 5320.0, 5619.0, 5280.0, 5282.0, 5294.0, 5298.0, 5392.0, 5347.0, 5277.0, 5658.0, 5570.0, 5508.0, 5252.0, 5474.0, 5414.0, 5530.0, 5506.0, 5355.0, 5524.0, 5564.0, 5611.0, 5285.0, 5638.0, 5389.0, 5705.0, 5647.0, 5305.0, 5654.0, 5540.0, 5672.0, 5601.0, 5623.0, 5268.0, 5685.0, 5385.0, 5535.0, 5541.0, 5354.0, 5462.0, 5442.0, 5467.0, 5259.0, 5513.0, 5582.0, 5452.0, 5333.0, 5711.0, 5512.0, 5359.0, 5537.0, 5664.0, 5477.0, 5650.0, 5345.0, 5324.0, 5511.0, 5464.0, 5368.0, 5409.0, 5542.0, 5315.0, 5690.0, 5289.0, 5407.0, 5560.0, 5432.0, 5639.0, 5468.0, 5444.0, 5304.0, 5576.0, 5696.0 (number of hits: 4)
27	5260	9	1	333	1	5580.0, 5265.0, 5462.0, 5452.0, 5431.0, 5444.0, 5502.0, 5268.0, 5640.0, 5658.0, 5704.0, 5623.0, 5332.0, 5634.0, 5281.0, 5559.0, 5560.0, 5503.0, 5309.0, 5668.0, 5350.0, 5645.0, 5402.0, 5287.0, 5493.0, 5392.0, 5667.0, 5533.0, 5374.0, 5554.0, 5646.0, 5605.0, 5373.0, 5586.0, 5632.0, 5423.0, 5401.0, 5410.0, 5413.0, 5298.0, 5597.0, 5666.0, 5669.0, 5512.0, 5593.0, 5383.0, 5662.0, 5674.0, 5302.0, 5437.0, 5293.0, 5375.0, 5701.0, 5627.0, 5386.0, 5587.0, 5485.0, 5532.0, 5342.0, 5283.0, 5463.0, 5370.0, 5686.0, 5286.0, 5259.0, 5436.0, 5411.0, 5288.0, 5255.0, 5522.0, 5251.0, 5652.0, 5340.0, 5480.0, 5690.0, 5277.0, 5715.0, 5608.0, 5321.0, 5270.0, 5338.0, 5420.0, 5626.0, 5290.0, 5337.0, 5551.0, 5719.0, 5274.0, 5680.0, 5566.0, 5447.0, 5651.0, 5563.0, 5681.0, 5310.0, 5381.0, 5478.0, 5526.0, 5710.0, 5721.0 (number of hits: 5)
28	5260	9	1	333	1	5397.0, 5332.0, 5704.0, 5724.0, 5498.0, 5302.0, 5716.0, 5508.0, 5252.0, 5291.0, 5544.0, 5393.0, 5598.0, 5253.0, 5629.0, 5586.0, 5646.0, 5669.0, 5550.0, 5700.0, 5647.0, 5591.0, 5612.0, 5284.0, 5368.0, 5701.0, 5311.0, 5674.0, 5484.0, 5358.0, 5350.0, 5564.0, 5317.0, 5560.0, 5618.0, 5436.0, 5324.0, 5289.0, 5250.0, 5339.0, 5338.0, 5325.0, 5696.0, 5663.0, 5366.0, 5381.0, 5375.0, 5336.0, 5587.0, 5361.0, 5413.0, 5341.0, 5256.0, 5456.0, 5283.0, 5359.0, 5693.0, 5597.0, 5666.0, 5464.0, 5394.0, 5635.0, 5446.0, 5261.0, 5269.0, 5662.0, 5535.0, 5396.0, 5584.0, 5287.0, 5627.0, 5559.0, 5467.0, 5280.0, 5667.0, 5478.0, 5305.0, 5307.0, 5596.0, 5671.0, 5656.0, 5434.0, 5492.0, 5613.0, 5378.0,

						5577.0, 5581.0, 5494.0, 5601.0, 5451.0, 5645.0, 5651.0, 5511.0, 5676.0, 5677.0, 5572.0, 5300.0, 5299.0, 5570.0, 5652.0 (number of hits: 6)
29	5260	9	1	333	1	5508.0, 5298.0, 5599.0, 5428.0, 5356.0, 5596.0, 5415.0, 5406.0, 5567.0, 5386.0, 5624.0, 5575.0, 5402.0, 5507.0, 5516.0, 5259.0, 5366.0, 5263.0, 5692.0, 5602.0, 5589.0, 5515.0, 5526.0, 5652.0, 5299.0, 5635.0, 5293.0, 5532.0, 5660.0, 5661.0, 5463.0, 5531.0, 5495.0, 5399.0, 5636.0, 5586.0, 5523.0, 5541.0, 5351.0, 5547.0, 5616.0, 5281.0, 5387.0, 5421.0, 5260.0, 5712.0, 5312.0, 5666.0, 5517.0, 5489.0, 5606.0, 5564.0, 5447.0, 5256.0, 5286.0, 5311.0, 5454.0, 5716.0, 5565.0, 5253.0, 5598.0, 5594.0, 5303.0, 5709.0, 5468.0, 5372.0, 5280.0, 5355.0, 5381.0, 5329.0, 5392.0, 5562.0, 5296.0, 5677.0, 5492.0, 5600.0, 5348.0, 5501.0, 5405.0, 5637.0, 5720.0, 5592.0, 5640.0, 5497.0, 5270.0, 5535.0, 5509.0, 5548.0, 5643.0, 5469.0, 5340.0, 5580.0, 5540.0, 5715.0, 5376.0, 5261.0, 5441.0, 5479.0, 5641.0, 5704.0 (number of hits: 6)
30	5260	9	1	333	1	5371.0, 5399.0, 5398.0, 5335.0, 5676.0, 5522.0, 5601.0, 5683.0, 5410.0, 5252.0, 5675.0, 5365.0, 5649.0, 5320.0, 5493.0, 5441.0, 5329.0, 5528.0, 5338.0, 5479.0, 5539.0, 5722.0, 5594.0, 5407.0, 5593.0, 5412.0, 5284.0, 5513.0, 5704.0, 5509.0, 5582.0, 5619.0, 5520.0, 5614.0, 5352.0, 5433.0, 5499.0, 5634.0, 5454.0, 5626.0, 5668.0, 5339.0, 5592.0, 5348.0, 5622.0, 5309.0, 5691.0, 5491.0, 5430.0, 5624.0, 5429.0, 5437.0, 5417.0, 5411.0, 5597.0, 5318.0, 5542.0, 5548.0, 5300.0, 5568.0, 5517.0, 5605.0, 5273.0, 5395.0, 5481.0, 5324.0, 5692.0, 5661.0, 5373.0, 5531.0, 5258.0, 5535.0, 5255.0, 5494.0, 5590.0, 5271.0, 5467.0, 5690.0, 5628.0, 5292.0, 5558.0, 5394.0, 5609.0, 5514.0, 5482.0, 5423.0, 5477.0, 5579.0, 5526.0, 5471.0, 5321.0, 5313.0, 5530.0, 5621.0, 5334.0, 5603.0, 5488.0, 5342.0, 5264.0, 5527.0 (number of hits: 4)

5270 MHz, 40 MHz Bandwidth

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1A/1B	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:

5270 MHz, 40 MHz Bandwidth

Table-1A/1B Radar Type 1A/1B Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5270	81	1	658	1
2	5270	86	1	618	1
3	5270	72	1	738	1
4	5270	83	1	638	1
5	5270	78	1	678	1
6	5270	61	1	878	1
7	5270	59	1	898	1
8	5270	99	1	538	1
9	5270	89	1	598	1
10	5270	102	1	518	1
11	5270	63	1	838	1
12	5270	58	1	918	1
13	5270	74	1	718	1
14	5270	92	1	578	1
15	5270	57	1	938	1
16	5270	35	1	1549	1
17	5270	39	1	1380	1
18	5270	24	1	2286	1
19	5270	37	1	1452	1
20	5270	31	1	1724	1
21	5270	24	1	2217	1
22	5270	28	1	1936	1
23	5270	19	1	2910	1
24	5270	19	1	2882	1
25	5270	23	1	2355	1
26	5270	83	1	637	1
27	5270	27	1	2001	1
28	5270	41	1	1288	1
29	5270	33	1	1612	1
30	5270	62	1	860	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	5270	23	1.4	178	1
2	5270	29	2.1	184	1
3	5270	28	2.5	225	1
4	5270	25	1.2	184	1
5	5270	27	3.8	167	1
6	5270	26	2.1	166	1
7	5270	28	3.1	212	1
8	5270	24	4.2	201	1
9	5270	27	2.2	214	1
10	5270	28	1.7	203	1
11	5270	27	2.6	161	1
12	5270	27	3	160	1
13	5270	27	4.7	197	1
14	5270	27	2.9	206	1
15	5270	26	5	151	1
16	5270	26	1.4	154	1
17	5270	29	4	169	1
18	5270	24	1.3	195	1
19	5270	24	3.6	154	1
20	5270	29	2	204	1
21	5270	27	1.8	158	1
22	5270	27	4.2	199	1
23	5270	28	2.3	185	1
24	5270	24	1.4	225	1
25	5270	23	3	178	1
26	5270	26	1	184	1
27	5270	25	4.1	187	1
28	5270	23	2.1	220	1
29	5270	24	4.3	171	1
30	5270	29	2.1	177	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	5270	17	7.6	324	1
2	5270	16	6.4	250	1
3	5270	16	7.5	406	1
4	5270	18	9.9	288	1
5	5270	16	6	436	1
6	5270	18	9.6	236	1
7	5270	18	9.6	394	1
8	5270	17	8.3	222	1
9	5270	18	8	453	1
10	5270	16	8.3	224	1
11	5270	18	7.4	357	1
12	5270	17	8	469	1
13	5270	17	9.8	356	1
14	5270	18	9.2	239	1
15	5270	17	6.2	423	1
16	5270	16	10	233	1
17	5270	18	8.2	259	1
18	5270	16	8.2	385	1
19	5270	18	9.8	360	1
20	5270	18	8.4	300	1
21	5270	18	9.3	347	1
22	5270	17	6.5	418	1
23	5270	17	8.3	344	1
24	5270	16	9.2	420	1
25	5270	16	6.9	392	1
26	5270	18	6.6	478	1
27	5270	18	9.5	392	1
28	5270	17	8.1	465	1
29	5270	17	7.8	347	1
30	5270	16	6.2	245	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	5270	14	11	349	1
2	5270	14	17.3	307	1
3	5270	14	15.3	270	1
4	5270	14	13.1	329	1
5	5270	16	11.9	371	1
6	5270	14	14.6	475	1
7	5270	12	11.4	224	1
8	5270	15	13.8	280	1
9	5270	14	11.2	416	1
10	5270	14	16.2	436	1
11	5270	14	17.2	384	1
12	5270	15	15.3	234	1
13	5270	12	14.9	496	1
14	5270	16	11.8	275	1
15	5270	14	16.8	378	1
16	5270	15	19	205	1
17	5270	15	17.5	300	1
18	5270	16	18.8	408	1
19	5270	15	13.3	209	1
20	5270	12	14.3	406	1
21	5270	16	16.1	445	1
22	5270	12	12.2	309	1
23	5270	12	12.2	492	1
24	5270	12	18.3	463	1
25	5270	16	16.4	485	1
26	5270	12	13.3	293	1
27	5270	14	18.4	218	1
28	5270	13	11.2	358	1
29	5270	13	13.3	354	1
30	5270	15	15	378	1
Detection Percentage: 100 % (>60%)					

Table-5 Radar Type 5 Statistical Performance

Trial #	Fc (MHz)	Detection (1:yes; 0:no)
1	5270	1
2	5270	1
3	5270	1
4	5270	1
5	5270	1
6	5270	1
7	5270	1
8	5270	1
9	5270	1
10	5270	1
11	5253.6	1
12	5252.0	1
13	5257.6	1
14	5253.2	1
15	5257.6	1
16	5254.4	1
17	5258.0	1
18	5252.4	1
19	5255.6	1
20	5256.4	1
21	5286.4	1
22	5285.6	1
23	5287.2	1
24	5285.6	1
25	5287.2	1
26	5284.8	1
27	5286.4	1
28	5282.8	1
29	5282.4	1
30	5286.8	1
Detection Percentage: 100 % (>80%)		

Bin5 Statistics 1

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	15	72.4	1786		0.053092	
1	2	15	83.5	1433		1.225215	
2	2	15	59.1	1803		1.911368	
3	1	15	82.8			2.488389	
4	1	15	72.5			3.057905	
5	2	15	86.7	1938		3.591964	
6	2	15	97	1522		4.275065	
7	1	15	93.5			5.185883	
8	1	15	57.7			5.742016	1
9	2	15	81	1313		7.045126	
10	1	15	62.2			7.482191	
11	3	15	93.2	1337	1560	7.987506	
12	2	15	70.5	1059		9.076652	
13	2	15	79.3	1035		9.34281	
14	2	15	72.9	1968		10.338103	
15	2	15	55.8	1531		11.219747	
16	3	15	86.4	1725	1246	11.373842	

Bin5 Statistics 2

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	13	99.6			0.69672	
1	3	13	52.1	1818	1909	1.358076	
2	2	13	83.8	1150		1.618926	
3	3	13	60.5	1261	1172	3.17793	
4	3	13	96.9	1291	1130	3.399865	
5	2	13	65	1672		4.612748	
6	2	13	84.5	1840		5.303428	
7	3	13	68.2	1897	1902	5.833451	1
8	1	13	56.1			6.55276	
9	1	13	65.3			7.55885	
10	3	13	71.6	1851	1587	8.641306	
11	2	13	52.6	1845		9.232589	
12	2	13	79.1	1863		10.188404	
13	2	13	67.6	1073		10.735745	
14	3	13	51.3	1572	1540	11.2353	

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	8	97			0.012448	
1	3	8	75.4	1800	1743	1.189131	
2	2	8	61.1	1218		1.655794	
3	1	8	95.4			2.065876	
4	2	8	55.8	1675		3.080085	
5	1	8	58.1			3.372329	
6	2	8	86.9	1010		4.390246	
7	2	8	91.3	1540		4.60521	
8	3	8	67.9	1340	1652	5.109531	
9	1	8	96.6			6.008012	1
10	3	8	74	1103	1542	6.386759	
11	3	8	70.7	1296	1773	7.430886	
12	2	8	74.8	1113		7.993199	
13	2	8	72.5	1247		8.668038	
14	2	8	89	1487		9.094941	
15	1	8	94.1			9.972291	
16	2	8	90	1573		10.555694	
17	2	8	84.5	1088		11.115091	
18	2	8	69.2	1401		11.969691	

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	14	71.8			0.318522	1
1	3	14	90	1182	1090	1.204385	
2	3	14	77.8	1863	1867	1.629427	
3	2	14	68.2	1339		2.507624	
4	2	14	91.8	1087		2.844112	
5	2	14	88.4	1696		3.825569	
6	3	14	60.1	1843	1736	4.54342	
7	2	14	83.5	1487		5.108678	
8	2	14	68.4	1371		5.805769	
9	1	14	62.9			6.571687	
10	2	14	50.7	1104		6.778266	
11	1	14	95.2			7.808623	
12	1	14	73			8.185353	
13	3	14	91.1	1788	1235	9.235227	
14	2	14	98.5	1351		9.505601	
15	1	14	67.5			10.505705	
16	3	14	77	1040	1588	11.082314	
17	2	14	72.4	1581		11.609897	

Bin5 Statistics 5

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	10	63.5	1437		0.483157	
1	2	10	70.2	1354		0.852177	
2	2	10	62.8	1954		1.573944	
3	2	10	58.9	1484		2.662215	
4	1	10	62.5			2.923431	
5	1	10	62.1			3.719054	
6	1	10	81.3			4.627658	
7	2	10	79.8	1939		5.335856	
8	2	10	89.8	1425		6.071905	1
9	2	10	61.8	1842		6.90067	
10	2	10	99.8	1994		7.70287	
11	2	10	88.3	1890		8.135142	
12	2	10	71.8	1078		9.167915	
13	2	10	54.7	1860		9.406205	
14	2	10	98.5	1634		10.27681	
15	3	10	82.7	1377	1445	11.134173	
16	2	10	81.6	1315		11.674855	

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	12	85.7	1307		0.031321	
1	1	12	98			1.056877	
2	2	12	54.8	1367		1.560028	
3	1	12	95.4			2.986223	
4	3	12	84.7	1313	1655	3.012386	
5	1	12	72.5			4.30193	
6	2	12	58.7	1530		5.218779	
7	3	12	93.3	1024	1886	5.702651	
8	3	12	87.6	1351	1211	6.339344	1
9	2	12	84.6	1578		6.816258	
10	2	12	92.5	1732		7.955288	
11	2	12	64.5	1970		8.929989	
12	3	12	71.1	1052	1626	9.51486	
13	1	12	79.6			10.105837	
14	2	12	90.4	1935		10.569424	
15	2	12	95	1052		11.743677	

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	15	61.6			0.301955	1
1	3	15	89.1	1210	1251	1.071076	
2	3	15	60.7	1027	1294	2.016706	
3	2	15	96.6	1107		2.61502	
4	2	15	98.8	1144		3.490092	
5	1	15	64.3			5.059373	
6	2	15	58.3	1237		5.995585	
7	2	15	56.6	1147		6.096456	
8	3	15	75.8	1800	1404	7.07624	
9	1	15	75.9			8.511871	
10	1	15	96.9			8.616155	
11	3	15	60.4	1100	1951	10.159254	
12	2	15	79.5	1443		11.07025	
13	2	15	73.3	1005		11.930049	

Bin5 Statistics 8

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	15	70.3	1303	1518	0.311491	1
1	3	15	63.2	1398	1607	1.686342	
2	1	15	96.6			2.58396	
3	2	15	98.7	1030		3.620958	
4	1	15	88.3			3.992799	
5	2	15	85.9	1213		5.287337	
6	2	15	93.5	1111		5.979444	
7	3	15	57.4	1245	1740	6.918662	
8	2	15	93.3	1138		7.560441	
9	2	15	73.4	1885		8.745704	
10	3	15	99.2	1424	1324	9.894589	
11	2	15	82.4	1332		10.755398	
12	2	15	76.5	1081		11.981526	

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	7	64.6	1006		0.982432	1
1	1	7	98.6			1.598615	
2	2	7	82.5	1621		2.924997	
3	1	7	70.8			3.452106	
4	2	7	55.2	1082		4.42369	
5	2	7	75.7	1584		6.521618	
6	2	7	89.4	1253		7.322037	
7	2	7	82.9	1615		7.757239	
8	3	7	52.1	1883	1079	8.751427	
9	3	7	61.4	1394	1448	10.889909	
10	2	7	94.1	1601		11.813714	

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	6	74.9	1747		0.940769	1
1	2	6	93.6	1140		1.428756	
2	2	6	71.8	1769		3.594779	
3	2	6	59.5	1333		3.679553	
4	2	6	90.6	1369		4.907716	
5	2	6	98.9	1316		7.165568	
6	2	6	99.7	1026		7.378623	
7	3	6	51.2	1471	1845	8.586346	
8	2	6	65.2	1781		9.657194	
9	1	6	72.4			11.754424	

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	9	97.6	1600	1029	0.167522	
1	3	9	63.5	1359	1893	1.268061	
2	2	9	53.8	1524		1.558406	
3	3	9	76.9	1069	1296	2.718294	
4	3	9	99.4	1968	1986	3.251618	
5	2	9	67.2	1330		3.898025	
6	3	9	85.6	1053	1499	4.364803	
7	2	9	99.7	1585		5.594338	
8	2	9	60	1546		5.825643	1
9	2	9	55.2	1068		6.949014	
10	2	9	60.9	1328		7.431799	
11	3	9	71.1	1245	1497	8.138525	
12	2	9	56	1750		8.921222	
13	2	9	67.3	1314		9.820827	
14	1	9	96.3			10.079739	
15	3	9	56.1	1218	1280	11.255666	
16	1	9	92.7			11.91879	

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	5	91.2	1833	1232	0.313546	
1	2	5	65	1994		1.04499	
2	3	5	87.7	1685	1480	1.515122	
3	2	5	66.6	1883		2.055338	
4	2	5	61.3	1184		3.127735	
5	1	5	95.1			3.456323	
6	2	5	71.1	1891		4.034826	
7	2	5	86.1	1912		5.038735	
8	3	5	50.3	1466	1223	5.393285	
9	1	5	83.2			6.136705	1
10	2	5	79.1	1960		6.667265	
11	2	5	81.1	1675		7.333576	
12	2	5	63.4	1002		7.809092	
13	3	5	98.8	1417	1177	8.308853	
14	1	5	92.8			8.97723	
15	2	5	89.7	1747		9.51927	
16	2	5	87	1562		10.728938	
17	2	5	94.4	1576		10.937624	
18	1	5	84.1			11.518963	

Bin5 Statistics 13

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	19	82.8	1644		0.678868	
1	3	19	88.3	1594	1967	1.485643	
2	2	19	52.6	1957		2.865384	
3	1	19	60.6			3.962499	
4	2	19	89.6	1743		4.630908	
5	2	19	86.9	1124		6.382247	1
6	3	19	65	1043	1182	7.18508	
7	1	19	67.3			8.440857	
8	2	19	83.7	1218		9.187462	
9	1	19	93.4			10.400515	
10	1	19	89.4			11.753223	

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	8	84.4			0.471153	1
1	2	8	74.4	1707		1.672041	
2	3	8	58.6	1011	1497	2.289534	
3	2	8	93.1	1599		2.985939	
4	3	8	93.4	1877	1726	3.972141	
5	1	8	63			5.082275	
6	1	8	91.6			5.772744	
7	2	8	89.3	1820		6.001071	
8	3	8	80.5	1193	1345	7.702986	
9	1	8	52.5			7.71999	
10	2	8	73.4	1767		8.642026	
11	2	8	96.7	1045		9.80715	
12	1	8	60.5			10.919881	
13	2	8	69.2	1061		11.806191	

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	19	98.3	1978		0.538698	1
1	2	19	89.2	1670		1.698913	
2	2	19	77.1	1594		2.200252	
3	1	19	86			3.908937	
4	1	19	72.1			4.729098	
5	2	19	76.3	1411		5.975034	
6	1	19	66.4			6.805589	
7	3	19	61.3	1682	1024	7.03183	
8	2	19	91.7	1689		8.385476	
9	2	19	64.8	1068		9.685941	
10	2	19	69.6	1197		10.99237	
11	1	19	92.6			11.554642	

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	11	59.5	1772		0.175883	1
1	2	11	93.5	1220		1.049309	
2	2	11	68.7	1138		1.34652	
3	2	11	67.2	1241		2.648274	
4	2	11	58.4	1482		3.190505	
5	3	11	82.6	1366	1018	3.935234	
6	1	11	78.7			4.155224	
7	2	11	68.4	1855		4.692065	
8	3	11	72.9	1568	1947	5.368092	
9	2	11	66.8	1385		6.644879	
10	1	11	83			7.325498	
11	2	11	97.9	1757		7.507281	
12	3	11	87	1870	1634	8.658268	
13	3	11	64.2	1935	1371	8.783173	
14	1	11	78.4			9.538229	
15	1	11	97.2			10.311321	
16	2	11	82.5	1510		10.821311	
17	3	11	80.6	1647	1301	11.378337	

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	20	86.6	1169		0.339695	1
1	2	20	96.1	1681		1.576238	
2	2	20	87.8	1648		2.600689	
3	2	20	75.9	1235		3.464087	
4	2	20	85.1	1464		4.54622	
5	2	20	82.3	1104		5.305567	
6	2	20	70.6	1738		6.108999	
7	3	20	51.8	1982	1711	7.621353	
8	2	20	77.7	1520		8.268699	
9	1	20	61.9			9.322719	
10	3	20	72.6	1546	1695	10.773851	
11	1	20	52.7			11.837268	

Bin5 Statistics 18

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	6	97.8			0.3825	1
1	2	6	94.8	1036		1.580275	
2	3	6	91.4	1534	1952	2.235105	
3	3	6	67.7	1411	1114	3.991789	
4	1	6	52.5			4.125531	
5	2	6	88.3	1125		5.185913	
6	2	6	80.1	1923		6.162868	
7	1	6	89.9			7.035379	
8	1	6	87.5			8.320285	
9	1	6	65.2			9.607613	
10	2	6	86	1343		10.693929	
11	2	6	98.9	1174		11.139331	

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	59.5	1274		0.521033	1
1	1	14	82.4			1.334353	
2	3	14	81.2	1916	1895	2.279959	
3	3	14	70.6	1560	1259	3.339026	
4	3	14	84.8	1816	1273	3.803938	
5	1	14	79.3			5.028875	
6	2	14	63.8	1582		5.975154	
7	3	14	65.1	1946	1776	6.614518	
8	2	14	85	1680		7.093306	
9	2	14	52.9	1482		7.966899	
10	3	14	52	1502	1274	9.082731	
11	1	14	60.1			10.083838	
12	2	14	84.6	1564		10.928366	
13	1	14	85.5			11.702661	

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	16	62.1	1506	1405	0.022039	1
1	2	16	60.4	1706		2.361758	
2	3	16	54.9	1461	1982	3.64018	
3	2	16	64.9	1434		4.255301	
4	1	16	86.4			5.363357	
5	2	16	50.7	1723		7.07219	
6	2	16	85.5	1846		8.921498	
7	2	16	82.4	1999		10.082191	
8	2	16	75.8	1032		11.272345	

Bin5 Statistics 21

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	9	65.5			0.573037	
1	2	9	62.2	1670		0.772571	
2	2	9	54.8	1856		1.448665	
3	1	9	83.9			2.162544	
4	2	9	62	1369		2.475147	
5	3	9	66.5	1867	1484	3.581363	
6	2	9	88.4	1734		3.695523	
7	1	9	63.3			4.42344	
8	2	9	90	1727		5.159989	
9	2	9	83.6	1035		5.613967	1
10	2	9	93.6	1206		6.567075	
11	2	9	91.2	1355		6.729397	
12	1	9	57.3			7.512276	
13	3	9	70.8	1166	1431	8.379514	
14	2	9	72.6	1463		8.870672	
15	2	9	57.7	1640		9.301692	
16	2	9	76.8	1603		9.685882	
17	1	9	74.4			10.5623	
18	2	9	62.5	1243		11.08818	
19	2	9	72.8	1771		11.528778	

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	11	78.8	1843		0.277792	
1	2	11	60.5	1585		2.292818	
2	3	11	58	1789	1274	3.366528	
3	3	11	97.5	1522	1567	5.072608	
4	2	11	65.5	1139		6.205348	1
5	1	11	58.2			7.525231	
6	1	11	60.1			9.255824	
7	2	11	57.6	1972		10.289016	
8	2	11	58.7	1290		11.323516	

Bin5 Statistics 23

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	7	53.7	1814	1124	0.781438	1
1	2	7	76.9	1033		1.697234	
2	2	7	66.1	1040		2.870274	
3	2	7	63.6	1044		3.506936	
4	1	7	55.8			4.881781	
5	3	7	60	1150	1793	5.778961	
6	3	7	68.1	1561	1833	6.299403	
7	1	7	94.9			7.35317	
8	3	7	63.4	1839	1664	8.001094	
9	2	7	59.4	1665		9.882699	
10	3	7	74.5	1550	1217	10.675914	
11	2	7	74.5	1849		11.015369	

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	11	69.5	1233	1331	0.109925	1
1	1	11	86			0.941717	
2	2	11	80.1	1948		1.87493	
3	2	11	92.3	1309		2.486968	
4	3	11	95	1686	1464	3.23438	
5	2	11	88.2	1812		3.814716	
6	3	11	93.2	1850	1655	4.032833	
7	3	11	51.6	1429	1504	5.016769	
8	2	11	92.3	1067		5.478414	
9	3	11	97.1	1643	1072	6.58409	
10	2	11	79.8	1970		7.231129	
11	1	11	92.9			7.619526	
12	2	11	83.6	1616		8.140916	
13	2	11	90.6	1886		8.845038	
14	2	11	59.7	1604		9.729749	
15	2	11	66.2	1278		10.467065	
16	3	11	57.3	1559	1317	10.973682	
17	2	11	88.1	1817		11.385934	

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	7	60.6	1334		1.061815	
1	2	7	98.9	1101		2.551166	
2	2	7	82.5	1481		2.854703	
3	2	7	85.2	1923		5.252697	
4	3	7	85.5	1206	1266	5.792631	1
5	1	7	56.9			7.587908	
6	2	7	95.7	1494		8.298019	
7	3	7	78.9	1178	1253	10.14012	
8	1	7	82.5			10.686505	

Bin5 Statistics 26

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	13	77.1			0.173385	
1	2	13	73.4	1737		1.21628	
2	2	13	75.5	1981		1.757036	
3	2	13	51.1	1047		3.124554	
4	2	13	93.8	1147		3.453808	
5	1	13	58.2			4.535496	
6	1	13	51			5.452509	
7	2	13	75.5	1990		6.353587	1
8	1	13	67.7			6.666596	
9	2	13	82	1643		7.309761	
10	2	13	51.4	1911		8.693608	
11	1	13	68.9			9.280315	
12	2	13	78.3	1486		10.366021	
13	1	13	82.8			10.992654	
14	3	13	83.5	1661	1862	11.302191	

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	9	94.4	1950		0.011065	1
1	3	9	60.1	1872	1848	0.9521	
2	3	9	84.6	1840	1590	1.57555	
3	3	9	69.1	1036	1468	1.831196	
4	2	9	51.1	1242		2.67438	
5	2	9	63.3	1813		3.247896	
6	2	9	88.7	1247		3.612363	
7	2	9	96	1983		4.751553	
8	2	9	87.5	1634		5.387061	
9	2	9	72.9	1793		5.556595	
10	1	9	65			6.082805	
11	1	9	67.6			6.780383	
12	1	9	95.8			7.301149	
13	2	9	97.2	1940		8.121884	
14	2	9	68.5	1582		8.431929	
15	2	9	65.1	1717		9.079065	
16	2	9	73.5	1579		9.76257	
17	2	9	59.1	1519		10.464784	
18	3	9	79	1253	1640	11.004495	
19	2	9	86.2	1290		11.783024	

Bin5 Statistics 28

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	18	76.5			0.692545	
1	3	18	53.2	1438	1131	1.131783	
2	3	18	99	1904	1717	2.056525	
3	1	18	64.1			2.742199	
4	3	18	68.3	1535	1246	2.944026	
5	2	18	73.6	1364		3.562106	
6	3	18	78.5	1542	1504	4.4844	
7	2	18	88.7	1305		5.611843	
8	2	18	89.7	1428		6.233863	1
9	3	18	91.4	1428	1302	6.80116	
10	2	18	74.4	1235		7.488455	
11	2	18	64.1	1907		7.924156	
12	2	18	72.9	1326		8.503836	
13	1	18	70.7			9.508396	
14	3	18	87.6	1451	1162	10.289282	
15	2	18	89.9	1650		10.669374	
16	1	18	57.2			11.31812	

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	19	74.8	1284		0.463541	
1	2	19	56.1	1785		1.398633	
2	2	19	59.3	1162		1.881094	
3	1	19	86.9			2.646698	
4	2	19	72.6	1197		3.375429	
5	3	19	59.3	1727	1639	4.000221	
6	3	19	55.4	1837	1873	4.534091	
7	1	19	82.6			5.145398	
8	2	19	64.2	1462		5.743834	1
9	1	19	60.6			6.858054	
10	1	19	89.8			7.164362	
11	1	19	74.2			8.297839	
12	2	19	64.7	1336		9.091341	
13	3	19	57.9	1793	1732	9.603421	
14	1	19	59.7			10.337012	
15	1	19	97.8			10.678191	
16	3	19	63.9	1451	1568	11.897354	

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	78.1	1468		0.553977	1
1	3	8	69.8	1735	1142	0.825348	
2	2	8	74.2	1752		1.537896	
3	2	8	53.8	1370		2.007572	
4	3	8	58.3	1689	1990	2.930144	
5	2	8	95.1	1388		3.713287	
6	2	8	90.1	1337		4.657548	
7	2	8	58.3	1387		4.676804	
8	1	8	90.2			5.685963	
9	1	8	82.7			6.105375	
10	1	8	93			7.265022	
11	2	8	59.5	1552		7.510391	
12	3	8	64.3	1866	1483	8.041881	
13	2	8	84.5	1054		8.806413	
14	3	8	60.5	1402	1632	9.829717	
15	3	8	61.3	1156	1677	10.0134	
16	1	8	93.2			10.871077	
17	3	8	82.3	1458	1529	11.992385	

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	5681.0, 5583.0, 5701.0, 5529.0, 5709.0, 5620.0, 5359.0, 5614.0, 5265.0, 5372.0, 5320.0, 5451.0, 5461.0, 5377.0, 5399.0, 5394.0, 5412.0, 5447.0, 5645.0, 5669.0, 5350.0, 5368.0, 5559.0, 5406.0, 5459.0, 5611.0, 5305.0, 5705.0, 5655.0, 5575.0, 5263.0, 5690.0, 5522.0, 5398.0, 5653.0, 5384.0, 5588.0, 5654.0, 5335.0, 5689.0, 5319.0, 5486.0, 5268.0, 5546.0, 5505.0, 5498.0, 5682.0, 5409.0, 5310.0, 5346.0, 5606.0, 5715.0, 5393.0, 5316.0, 5621.0, 5358.0, 5593.0, 5683.0, 5300.0, 5636.0, 5718.0, 5484.0, 5379.0, 5430.0, 5506.0, 5694.0, 5460.0, 5551.0, 5532.0, 5458.0, 5361.0, 5321.0, 5304.0, 5405.0, 5366.0, 5467.0, 5685.0, 5364.0, 5534.0, 5688.0, 5378.0, 5594.0, 5470.0, 5289.0, 5369.0, 5587.0, 5444.0, 5342.0, 5680.0, 5616.0, 5385.0, 5281.0, 5270.0, 5415.0, 5651.0, 5531.0, 5302.0, 5530.0, 5719.0, 5267.0 (number of hits: 7)
2	5270	9	1	333	1	5265.0, 5594.0, 5479.0, 5526.0, 5548.0, 5573.0, 5610.0, 5436.0, 5669.0, 5546.0, 5708.0, 5415.0, 5469.0, 5358.0, 5528.0, 5276.0, 5465.0, 5500.0, 5251.0, 5397.0, 5626.0, 5372.0, 5560.0, 5664.0, 5568.0, 5473.0, 5458.0, 5365.0, 5697.0, 5477.0, 5650.0, 5407.0, 5391.0, 5578.0, 5371.0, 5619.0, 5700.0, 5443.0, 5489.0, 5425.0, 5422.0, 5644.0, 5461.0, 5339.0, 5327.0, 5603.0, 5497.0, 5366.0, 5487.0, 5475.0, 5464.0, 5586.0, 5308.0, 5570.0, 5389.0, 5412.0, 5442.0, 5612.0, 5343.0, 5359.0, 5446.0, 5289.0, 5312.0, 5364.0, 5254.0, 5353.0, 5646.0, 5264.0, 5448.0, 5510.0, 5434.0, 5460.0, 5324.0, 5331.0, 5601.0, 5536.0, 5456.0, 5631.0, 5617.0, 5266.0, 5577.0, 5508.0, 5620.0, 5252.0, 5539.0, 5507.0, 5301.0, 5717.0, 5524.0, 5687.0, 5385.0, 5335.0, 5607.0, 5553.0, 5517.0, 5361.0, 5654.0, 5418.0, 5439.0, 5611.0 (number of hits: 8)
3	5270	9	1	333	1	5513.0, 5349.0, 5496.0, 5466.0, 5610.0, 5539.0, 5267.0, 5304.0, 5641.0, 5327.0, 5520.0, 5393.0, 5283.0, 5537.0, 5479.0, 5672.0, 5408.0, 5475.0, 5387.0, 5321.0, 5423.0, 5634.0, 5606.0, 5265.0, 5451.0, 5549.0, 5436.0, 5296.0, 5460.0, 5650.0, 5368.0, 5443.0, 5590.0, 5420.0, 5511.0, 5374.0, 5667.0, 5567.0, 5533.0, 5335.0, 5455.0, 5632.0, 5402.0, 5351.0, 5669.0, 5285.0, 5626.0, 5686.0, 5381.0, 5428.0, 5307.0, 5647.0, 5348.0, 5705.0, 5262.0,

						5585.0, 5671.0, 5255.0, 5623.0, 5600.0, 5458.0, 5378.0, 5554.0, 5654.0, 5383.0, 5317.0, 5290.0, 5405.0, 5295.0, 5617.0, 5462.0, 5417.0, 5355.0, 5691.0, 5319.0, 5467.0, 5718.0, 5480.0, 5708.0, 5272.0, 5379.0, 5390.0, 5586.0, 5603.0, 5693.0, 5712.0, 5643.0, 5577.0, 5631.0, 5497.0, 5281.0, 5325.0, 5331.0, 5557.0, 5370.0, 5498.0, 5720.0, 5376.0, 5555.0, 5690.0 (number of hits: 8)
4	5270	9	1	333	1	5286.0, 5541.0, 5511.0, 5331.0, 5674.0, 5615.0, 5389.0, 5356.0, 5307.0, 5373.0, 5572.0, 5537.0, 5526.0, 5483.0, 5719.0, 5416.0, 5273.0, 5656.0, 5317.0, 5324.0, 5371.0, 5496.0, 5274.0, 5554.0, 5624.0, 5528.0, 5330.0, 5376.0, 5722.0, 5466.0, 5508.0, 5649.0, 5700.0, 5562.0, 5270.0, 5557.0, 5375.0, 5651.0, 5545.0, 5606.0, 5629.0, 5612.0, 5448.0, 5631.0, 5401.0, 5585.0, 5287.0, 5408.0, 5502.0, 5512.0, 5472.0, 5573.0, 5686.0, 5534.0, 5622.0, 5517.0, 5717.0, 5412.0, 5322.0, 5462.0, 5484.0, 5306.0, 5590.0, 5494.0, 5639.0, 5596.0, 5403.0, 5393.0, 5392.0, 5654.0, 5298.0, 5694.0, 5663.0, 5474.0, 5363.0, 5671.0, 5342.0, 5723.0, 5594.0, 5682.0, 5533.0, 5308.0, 5701.0, 5367.0, 5437.0, 5552.0, 5616.0, 5323.0, 5316.0, 5679.0, 5542.0, 5255.0, 5627.0, 5721.0, 5635.0, 5419.0, 5372.0, 5263.0, 5329.0, 5281.0 (number of hits: 8)
5	5270	9	1	333	1	5416.0, 5623.0, 5711.0, 5311.0, 5331.0, 5258.0, 5625.0, 5602.0, 5482.0, 5597.0, 5290.0, 5492.0, 5714.0, 5648.0, 5324.0, 5606.0, 5621.0, 5531.0, 5491.0, 5688.0, 5499.0, 5600.0, 5701.0, 5634.0, 5281.0, 5284.0, 5428.0, 5708.0, 5252.0, 5447.0, 5510.0, 5539.0, 5325.0, 5507.0, 5585.0, 5274.0, 5626.0, 5267.0, 5476.0, 5586.0, 5435.0, 5514.0, 5654.0, 5315.0, 5354.0, 5671.0, 5551.0, 5681.0, 5628.0, 5444.0, 5666.0, 5434.0, 5316.0, 5358.0, 5421.0, 5522.0, 5706.0, 5406.0, 5664.0, 5613.0, 5559.0, 5631.0, 5684.0, 5571.0, 5401.0, 5453.0, 5343.0, 5317.0, 5296.0, 5292.0, 5576.0, 5650.0, 5368.0, 5668.0, 5328.0, 5298.0, 5541.0, 5554.0, 5646.0, 5475.0, 5443.0, 5672.0, 5431.0, 5323.0, 5618.0, 5405.0, 5350.0, 5533.0, 5610.0, 5263.0, 5466.0, 5348.0, 5423.0, 5500.0, 5536.0, 5288.0, 5426.0, 5520.0, 5303.0, 5562.0 (number of hits: 8)
6	5270	9	1	333	1	5614.0, 5340.0, 5292.0, 5369.0, 5471.0, 5530.0, 5496.0, 5310.0, 5706.0, 5699.0, 5318.0, 5392.0, 5489.0, 5692.0, 5429.0, 5395.0, 5623.0, 5284.0, 5598.0, 5346.0, 5523.0, 5635.0, 5569.0, 5305.0, 5399.0, 5632.0, 5613.0, 5267.0, 5698.0, 5262.0, 5293.0, 5626.0, 5719.0, 5266.0, 5378.0,

						5353.0, 5553.0, 5545.0, 5622.0, 5400.0, 5342.0, 5564.0, 5636.0, 5668.0, 5510.0, 5360.0, 5339.0, 5590.0, 5484.0, 5273.0, 5381.0, 5482.0, 5443.0, 5513.0, 5383.0, 5672.0, 5500.0, 5705.0, 5498.0, 5634.0, 5557.0, 5511.0, 5512.0, 5420.0, 5723.0, 5516.0, 5717.0, 5531.0, 5303.0, 5682.0, 5652.0, 5350.0, 5268.0, 5417.0, 5436.0, 5363.0, 5644.0, 5468.0, 5469.0, 5297.0, 5538.0, 5517.0, 5332.0, 5442.0, 5263.0, 5287.0, 5359.0, 5551.0, 5405.0, 5358.0, 5684.0, 5685.0, 5325.0, 5502.0, 5409.0, 5710.0, 5454.0, 5464.0, 5294.0, 5418.0 (number of hits: 8)
7	5270	9	1	333	1	5319.0, 5675.0, 5384.0, 5561.0, 5429.0, 5407.0, 5253.0, 5300.0, 5508.0, 5389.0, 5669.0, 5473.0, 5339.0, 5460.0, 5367.0, 5379.0, 5711.0, 5653.0, 5305.0, 5575.0, 5709.0, 5306.0, 5255.0, 5540.0, 5374.0, 5514.0, 5586.0, 5519.0, 5509.0, 5372.0, 5464.0, 5310.0, 5608.0, 5662.0, 5721.0, 5439.0, 5591.0, 5655.0, 5351.0, 5477.0, 5688.0, 5640.0, 5424.0, 5480.0, 5665.0, 5327.0, 5332.0, 5636.0, 5623.0, 5333.0, 5254.0, 5385.0, 5513.0, 5269.0, 5652.0, 5331.0, 5418.0, 5510.0, 5466.0, 5536.0, 5453.0, 5289.0, 5399.0, 5257.0, 5658.0, 5397.0, 5672.0, 5503.0, 5334.0, 5492.0, 5577.0, 5581.0, 5298.0, 5690.0, 5647.0, 5344.0, 5697.0, 5592.0, 5516.0, 5293.0, 5488.0, 5302.0, 5638.0, 5368.0, 5550.0, 5446.0, 5335.0, 5545.0, 5718.0, 5268.0, 5294.0, 5645.0, 5707.0, 5631.0, 5361.0, 5678.0, 5472.0, 5522.0, 5712.0, 5287.0 (number of hits: 8)
8	5270	9	1	333	1	5527.0, 5709.0, 5261.0, 5392.0, 5713.0, 5692.0, 5319.0, 5596.0, 5719.0, 5715.0, 5594.0, 5475.0, 5382.0, 5259.0, 5502.0, 5604.0, 5627.0, 5611.0, 5431.0, 5717.0, 5515.0, 5423.0, 5621.0, 5350.0, 5552.0, 5438.0, 5505.0, 5481.0, 5673.0, 5487.0, 5407.0, 5609.0, 5506.0, 5364.0, 5648.0, 5526.0, 5419.0, 5540.0, 5549.0, 5701.0, 5523.0, 5355.0, 5577.0, 5303.0, 5699.0, 5562.0, 5556.0, 5712.0, 5661.0, 5497.0, 5690.0, 5285.0, 5691.0, 5522.0, 5358.0, 5460.0, 5593.0, 5539.0, 5327.0, 5374.0, 5474.0, 5363.0, 5418.0, 5590.0, 5603.0, 5388.0, 5278.0, 5311.0, 5553.0, 5684.0, 5345.0, 5653.0, 5631.0, 5275.0, 5567.0, 5501.0, 5509.0, 5602.0, 5360.0, 5412.0, 5723.0, 5546.0, 5578.0, 5442.0, 5490.0, 5659.0, 5466.0, 5521.0, 5571.0, 5251.0, 5437.0, 5260.0, 5512.0, 5503.0, 5375.0, 5325.0, 5551.0, 5588.0, 5633.0, 5657.0 (number of hits: 7)
9	5270	9	1	333	1	5602.0, 5488.0, 5500.0, 5292.0, 5253.0, 5487.0, 5703.0, 5351.0, 5505.0, 5307.0, 5644.0, 5459.0, 5368.0, 5396.0, 5272.0,

						5452.0, 5639.0, 5255.0, 5303.0, 5652.0, 5474.0, 5257.0, 5634.0, 5643.0, 5343.0, 5263.0, 5583.0, 5276.0, 5673.0, 5649.0, 5418.0, 5721.0, 5717.0, 5485.0, 5572.0, 5290.0, 5349.0, 5449.0, 5632.0, 5561.0, 5441.0, 5335.0, 5486.0, 5560.0, 5542.0, 5631.0, 5672.0, 5512.0, 5286.0, 5686.0, 5609.0, 5620.0, 5275.0, 5336.0, 5626.0, 5702.0, 5687.0, 5410.0, 5271.0, 5301.0, 5383.0, 5451.0, 5470.0, 5435.0, 5337.0, 5365.0, 5693.0, 5436.0, 5358.0, 5421.0, 5440.0, 5268.0, 5617.0, 5595.0, 5557.0, 5675.0, 5688.0, 5305.0, 5482.0, 5668.0, 5374.0, 5549.0, 5608.0, 5264.0, 5586.0, 5624.0, 5372.0, 5322.0, 5469.0, 5719.0, 5325.0, 5252.0, 5516.0, 5491.0, 5710.0, 5289.0, 5528.0, 5685.0, 5287.0, 5356.0 (number of hits: 14)
10	5270	9	1	333	1	5676.0, 5402.0, 5562.0, 5685.0, 5304.0, 5546.0, 5484.0, 5354.0, 5589.0, 5395.0, 5590.0, 5489.0, 5313.0, 5597.0, 5686.0, 5353.0, 5654.0, 5407.0, 5547.0, 5327.0, 5633.0, 5674.0, 5510.0, 5445.0, 5615.0, 5667.0, 5326.0, 5658.0, 5431.0, 5638.0, 5601.0, 5471.0, 5636.0, 5318.0, 5561.0, 5306.0, 5496.0, 5275.0, 5376.0, 5276.0, 5699.0, 5680.0, 5522.0, 5472.0, 5579.0, 5566.0, 5710.0, 5269.0, 5440.0, 5690.0, 5630.0, 5720.0, 5593.0, 5448.0, 5493.0, 5567.0, 5455.0, 5324.0, 5277.0, 5571.0, 5251.0, 5373.0, 5499.0, 5490.0, 5314.0, 5257.0, 5434.0, 5652.0, 5316.0, 5346.0, 5430.0, 5397.0, 5719.0, 5365.0, 5500.0, 5359.0, 5443.0, 5457.0, 5330.0, 5394.0, 5454.0, 5558.0, 5632.0, 5703.0, 5569.0, 5441.0, 5679.0, 5420.0, 5669.0, 5290.0, 5657.0, 5460.0, 5698.0, 5382.0, 5284.0, 5442.0, 5481.0, 5334.0, 5491.0, 5447.0 (number of hits: 7)
11	5270	9	1	333	1	5699.0, 5420.0, 5643.0, 5687.0, 5298.0, 5703.0, 5416.0, 5502.0, 5323.0, 5274.0, 5587.0, 5368.0, 5464.0, 5514.0, 5615.0, 5443.0, 5652.0, 5625.0, 5305.0, 5520.0, 5644.0, 5548.0, 5585.0, 5387.0, 5621.0, 5476.0, 5456.0, 5360.0, 5377.0, 5537.0, 5489.0, 5303.0, 5346.0, 5564.0, 5421.0, 5343.0, 5668.0, 5438.0, 5436.0, 5630.0, 5608.0, 5467.0, 5646.0, 5691.0, 5577.0, 5296.0, 5301.0, 5283.0, 5371.0, 5465.0, 5636.0, 5316.0, 5388.0, 5472.0, 5390.0, 5474.0, 5682.0, 5624.0, 5633.0, 5620.0, 5284.0, 5609.0, 5596.0, 5555.0, 5709.0, 5673.0, 5324.0, 5290.0, 5446.0, 5427.0, 5505.0, 5642.0, 5448.0, 5538.0, 5492.0, 5525.0, 5364.0, 5457.0, 5432.0, 5715.0, 5453.0, 5638.0, 5402.0, 5269.0, 5349.0, 5267.0, 5292.0, 5362.0, 5605.0, 5543.0, 5561.0, 5294.0, 5710.0, 5254.0, 5442.0, 5560.0, 5314.0, 5612.0, 5712.0, 5302.0

						(number of hits: 6)
12	5270	9	1	333	1	5599.0, 5500.0, 5462.0, 5684.0, 5513.0, 5338.0, 5670.0, 5345.0, 5406.0, 5545.0, 5326.0, 5420.0, 5551.0, 5346.0, 5719.0, 5538.0, 5465.0, 5394.0, 5306.0, 5383.0, 5290.0, 5563.0, 5556.0, 5648.0, 5285.0, 5542.0, 5650.0, 5262.0, 5580.0, 5319.0, 5337.0, 5289.0, 5655.0, 5300.0, 5461.0, 5501.0, 5475.0, 5445.0, 5269.0, 5596.0, 5372.0, 5718.0, 5299.0, 5578.0, 5568.0, 5425.0, 5685.0, 5327.0, 5585.0, 5410.0, 5496.0, 5546.0, 5536.0, 5690.0, 5613.0, 5286.0, 5529.0, 5312.0, 5332.0, 5701.0, 5271.0, 5363.0, 5257.0, 5361.0, 5704.0, 5569.0, 5582.0, 5653.0, 5280.0, 5476.0, 5322.0, 5360.0, 5600.0, 5283.0, 5380.0, 5483.0, 5409.0, 5659.0, 5641.0, 5607.0, 5581.0, 5449.0, 5517.0, 5713.0, 5450.0, 5537.0, 5515.0, 5691.0, 5593.0, 5566.0, 5526.0, 5531.0, 5316.0, 5602.0, 5574.0, 5252.0, 5272.0, 5649.0, 5506.0, 5532.0 (number of hits: 11)
13	5270	9	1	333	1	5542.0, 5375.0, 5550.0, 5471.0, 5596.0, 5716.0, 5291.0, 5703.0, 5548.0, 5635.0, 5453.0, 5537.0, 5593.0, 5368.0, 5424.0, 5700.0, 5487.0, 5341.0, 5468.0, 5574.0, 5651.0, 5592.0, 5573.0, 5658.0, 5327.0, 5403.0, 5365.0, 5488.0, 5420.0, 5290.0, 5345.0, 5701.0, 5250.0, 5319.0, 5623.0, 5252.0, 5554.0, 5380.0, 5704.0, 5442.0, 5352.0, 5569.0, 5384.0, 5262.0, 5414.0, 5528.0, 5629.0, 5308.0, 5292.0, 5321.0, 5303.0, 5693.0, 5638.0, 5457.0, 5660.0, 5340.0, 5435.0, 5699.0, 5619.0, 5722.0, 5595.0, 5578.0, 5514.0, 5410.0, 5545.0, 5419.0, 5497.0, 5575.0, 5509.0, 5670.0, 5633.0, 5688.0, 5605.0, 5499.0, 5418.0, 5440.0, 5314.0, 5626.0, 5645.0, 5446.0, 5347.0, 5494.0, 5394.0, 5480.0, 5335.0, 5364.0, 5348.0, 5601.0, 5469.0, 5353.0, 5498.0, 5425.0, 5692.0, 5677.0, 5482.0, 5689.0, 5558.0, 5320.0, 5523.0, 5673.0 (number of hits: 3)
14	5270	9	1	333	1	5344.0, 5323.0, 5266.0, 5391.0, 5538.0, 5377.0, 5284.0, 5533.0, 5523.0, 5596.0, 5445.0, 5589.0, 5403.0, 5585.0, 5649.0, 5498.0, 5453.0, 5292.0, 5280.0, 5458.0, 5539.0, 5254.0, 5383.0, 5634.0, 5278.0, 5376.0, 5490.0, 5559.0, 5628.0, 5713.0, 5469.0, 5454.0, 5352.0, 5667.0, 5396.0, 5414.0, 5579.0, 5657.0, 5354.0, 5392.0, 5646.0, 5425.0, 5712.0, 5572.0, 5295.0, 5500.0, 5387.0, 5336.0, 5619.0, 5644.0, 5289.0, 5656.0, 5618.0, 5394.0, 5597.0, 5614.0, 5413.0, 5608.0, 5317.0, 5684.0, 5291.0, 5554.0, 5631.0, 5566.0, 5356.0, 5635.0, 5285.0, 5624.0, 5298.0, 5700.0, 5718.0, 5259.0, 5508.0, 5357.0, 5535.0, 5258.0, 5705.0, 5251.0, 5415.0, 5633.0,

						5506.0, 5450.0, 5416.0, 5565.0, 5679.0, 5611.0, 5341.0, 5260.0, 5268.0, 5491.0, 5300.0, 5636.0, 5510.0, 5431.0, 5482.0, 5552.0, 5690.0, 5513.0, 5691.0, 5270.0 (number of hits: 13)
15	5270	9	1	333	1	5366.0, 5531.0, 5467.0, 5405.0, 5515.0, 5530.0, 5697.0, 5501.0, 5308.0, 5686.0, 5693.0, 5609.0, 5358.0, 5622.0, 5662.0, 5282.0, 5419.0, 5411.0, 5362.0, 5396.0, 5596.0, 5573.0, 5256.0, 5682.0, 5638.0, 5548.0, 5507.0, 5685.0, 5440.0, 5468.0, 5253.0, 5722.0, 5714.0, 5490.0, 5658.0, 5424.0, 5598.0, 5331.0, 5637.0, 5585.0, 5563.0, 5442.0, 5537.0, 5252.0, 5481.0, 5608.0, 5433.0, 5642.0, 5547.0, 5599.0, 5666.0, 5706.0, 5257.0, 5522.0, 5586.0, 5674.0, 5404.0, 5451.0, 5629.0, 5335.0, 5612.0, 5516.0, 5581.0, 5445.0, 5577.0, 5545.0, 5352.0, 5276.0, 5427.0, 5496.0, 5673.0, 5668.0, 5675.0, 5528.0, 5441.0, 5713.0, 5266.0, 5583.0, 5327.0, 5334.0, 5623.0, 5653.0, 5517.0, 5576.0, 5660.0, 5509.0, 5518.0, 5449.0, 5347.0, 5476.0, 5318.0, 5494.0, 5326.0, 5551.0, 5273.0, 5384.0, 5705.0, 5466.0, 5670.0, 5437.0 (number of hits: 8)
16	5270	9	1	333	1	5599.0, 5677.0, 5588.0, 5557.0, 5292.0, 5663.0, 5505.0, 5609.0, 5698.0, 5380.0, 5451.0, 5352.0, 5627.0, 5328.0, 5504.0, 5399.0, 5454.0, 5613.0, 5631.0, 5511.0, 5635.0, 5569.0, 5447.0, 5696.0, 5658.0, 5477.0, 5484.0, 5291.0, 5411.0, 5598.0, 5418.0, 5579.0, 5597.0, 5472.0, 5719.0, 5643.0, 5405.0, 5582.0, 5435.0, 5434.0, 5552.0, 5701.0, 5279.0, 5617.0, 5287.0, 5440.0, 5438.0, 5422.0, 5687.0, 5699.0, 5432.0, 5509.0, 5706.0, 5495.0, 5550.0, 5683.0, 5685.0, 5700.0, 5460.0, 5359.0, 5554.0, 5531.0, 5257.0, 5338.0, 5606.0, 5638.0, 5634.0, 5309.0, 5264.0, 5571.0, 5376.0, 5573.0, 5541.0, 5318.0, 5510.0, 5437.0, 5476.0, 5462.0, 5578.0, 5408.0, 5577.0, 5536.0, 5608.0, 5332.0, 5429.0, 5639.0, 5704.0, 5431.0, 5620.0, 5296.0, 5715.0, 5553.0, 5416.0, 5259.0, 5269.0, 5270.0, 5586.0, 5487.0, 5551.0, 5601.0 (number of hits: 7)
17	5270	9	1	333	1	5327.0, 5554.0, 5294.0, 5598.0, 5481.0, 5581.0, 5286.0, 5337.0, 5265.0, 5433.0, 5336.0, 5356.0, 5568.0, 5582.0, 5522.0, 5431.0, 5324.0, 5400.0, 5442.0, 5382.0, 5557.0, 5253.0, 5560.0, 5417.0, 5448.0, 5671.0, 5261.0, 5708.0, 5647.0, 5643.0, 5422.0, 5592.0, 5351.0, 5563.0, 5412.0, 5583.0, 5637.0, 5415.0, 5646.0, 5610.0, 5338.0, 5316.0, 5357.0, 5483.0, 5676.0, 5566.0, 5383.0, 5458.0, 5701.0, 5703.0, 5434.0, 5493.0, 5470.0, 5391.0, 5276.0, 5345.0, 5407.0, 5462.0, 5370.0, 5625.0,

						5451.0, 5310.0, 5279.0, 5378.0, 5624.0, 5292.0, 5685.0, 5638.0, 5655.0, 5589.0, 5341.0, 5675.0, 5259.0, 5334.0, 5406.0, 5562.0, 5502.0, 5355.0, 5544.0, 5596.0, 5287.0, 5329.0, 5384.0, 5720.0, 5441.0, 5519.0, 5706.0, 5474.0, 5423.0, 5416.0, 5332.0, 5672.0, 5632.0, 5461.0, 5411.0, 5456.0, 5472.0, 5389.0, 5601.0, 5700.0 (number of hits: 8)
18	5270	9	1	333	1	5427.0, 5308.0, 5332.0, 5555.0, 5338.0, 5315.0, 5363.0, 5673.0, 5632.0, 5664.0, 5373.0, 5560.0, 5623.0, 5371.0, 5467.0, 5454.0, 5470.0, 5446.0, 5372.0, 5436.0, 5677.0, 5407.0, 5378.0, 5423.0, 5634.0, 5270.0, 5358.0, 5471.0, 5286.0, 5582.0, 5277.0, 5594.0, 5584.0, 5533.0, 5441.0, 5554.0, 5716.0, 5291.0, 5532.0, 5701.0, 5570.0, 5702.0, 5654.0, 5432.0, 5514.0, 5261.0, 5679.0, 5352.0, 5622.0, 5319.0, 5272.0, 5516.0, 5362.0, 5255.0, 5495.0, 5662.0, 5278.0, 5384.0, 5253.0, 5453.0, 5452.0, 5420.0, 5558.0, 5646.0, 5397.0, 5329.0, 5601.0, 5484.0, 5650.0, 5711.0, 5297.0, 5666.0, 5721.0, 5328.0, 5525.0, 5426.0, 5430.0, 5337.0, 5703.0, 5583.0, 5409.0, 5528.0, 5303.0, 5564.0, 5572.0, 5413.0, 5690.0, 5321.0, 5669.0, 5507.0, 5450.0, 5394.0, 5469.0, 5629.0, 5438.0, 5577.0, 5638.0, 5680.0, 5600.0, 5422.0 (number of hits: 8)
19	5270	9	1	333	1	5568.0, 5331.0, 5634.0, 5478.0, 5512.0, 5278.0, 5632.0, 5442.0, 5283.0, 5556.0, 5578.0, 5565.0, 5325.0, 5414.0, 5386.0, 5321.0, 5404.0, 5471.0, 5255.0, 5557.0, 5692.0, 5655.0, 5693.0, 5654.0, 5410.0, 5546.0, 5296.0, 5656.0, 5392.0, 5433.0, 5497.0, 5269.0, 5354.0, 5385.0, 5334.0, 5257.0, 5382.0, 5594.0, 5266.0, 5700.0, 5316.0, 5558.0, 5584.0, 5603.0, 5611.0, 5661.0, 5713.0, 5709.0, 5659.0, 5665.0, 5685.0, 5529.0, 5577.0, 5509.0, 5427.0, 5643.0, 5522.0, 5262.0, 5613.0, 5574.0, 5604.0, 5413.0, 5458.0, 5712.0, 5482.0, 5650.0, 5696.0, 5407.0, 5369.0, 5586.0, 5647.0, 5381.0, 5434.0, 5511.0, 5670.0, 5596.0, 5483.0, 5714.0, 5667.0, 5673.0, 5282.0, 5630.0, 5272.0, 5545.0, 5676.0, 5309.0, 5635.0, 5493.0, 5371.0, 5353.0, 5292.0, 5598.0, 5510.0, 5314.0, 5417.0, 5459.0, 5383.0, 5708.0, 5307.0, 5572.0 (number of hits: 9)
20	5270	9	1	333	1	5693.0, 5587.0, 5612.0, 5528.0, 5275.0, 5634.0, 5331.0, 5495.0, 5353.0, 5444.0, 5705.0, 5505.0, 5523.0, 5319.0, 5496.0, 5509.0, 5659.0, 5261.0, 5301.0, 5596.0, 5618.0, 5637.0, 5607.0, 5682.0, 5366.0, 5499.0, 5359.0, 5453.0, 5325.0, 5289.0, 5432.0, 5465.0, 5365.0, 5620.0, 5369.0, 5585.0, 5274.0, 5484.0, 5661.0, 5492.0,

						5603.0, 5454.0, 5314.0, 5506.0, 5507.0, 5601.0, 5563.0, 5494.0, 5512.0, 5258.0, 5707.0, 5551.0, 5615.0, 5304.0, 5674.0, 5616.0, 5290.0, 5684.0, 5677.0, 5257.0, 5439.0, 5583.0, 5462.0, 5497.0, 5545.0, 5502.0, 5662.0, 5548.0, 5642.0, 5606.0, 5449.0, 5518.0, 5428.0, 5703.0, 5329.0, 5393.0, 5382.0, 5437.0, 5485.0, 5408.0, 5298.0, 5696.0, 5279.0, 5270.0, 5670.0, 5586.0, 5589.0, 5610.0, 5284.0, 5458.0, 5267.0, 5706.0, 5265.0, 5386.0, 5527.0, 5322.0, 5715.0, 5613.0, 5303.0, 5420.0 (number of hits: 11)
21	5270	9	1	333	1	5347.0, 5574.0, 5322.0, 5416.0, 5710.0, 5613.0, 5645.0, 5353.0, 5488.0, 5298.0, 5655.0, 5265.0, 5521.0, 5543.0, 5338.0, 5354.0, 5397.0, 5383.0, 5371.0, 5701.0, 5579.0, 5607.0, 5628.0, 5497.0, 5395.0, 5453.0, 5352.0, 5626.0, 5551.0, 5377.0, 5325.0, 5418.0, 5289.0, 5518.0, 5690.0, 5273.0, 5569.0, 5663.0, 5612.0, 5609.0, 5630.0, 5266.0, 5485.0, 5560.0, 5713.0, 5253.0, 5715.0, 5345.0, 5654.0, 5545.0, 5288.0, 5631.0, 5457.0, 5432.0, 5588.0, 5503.0, 5424.0, 5360.0, 5252.0, 5287.0, 5567.0, 5264.0, 5589.0, 5505.0, 5319.0, 5555.0, 5723.0, 5531.0, 5391.0, 5363.0, 5299.0, 5464.0, 5688.0, 5382.0, 5385.0, 5455.0, 5519.0, 5280.0, 5683.0, 5718.0, 5590.0, 5362.0, 5667.0, 5529.0, 5520.0, 5317.0, 5361.0, 5314.0, 5566.0, 5537.0, 5633.0, 5504.0, 5408.0, 5387.0, 5500.0, 5370.0, 5452.0, 5304.0, 5339.0, 5508.0 (number of hits: 10)
22	5270	9	1	333	1	5593.0, 5467.0, 5295.0, 5367.0, 5655.0, 5564.0, 5450.0, 5442.0, 5263.0, 5316.0, 5392.0, 5585.0, 5258.0, 5619.0, 5711.0, 5457.0, 5644.0, 5511.0, 5443.0, 5424.0, 5307.0, 5325.0, 5623.0, 5632.0, 5697.0, 5273.0, 5584.0, 5684.0, 5296.0, 5562.0, 5492.0, 5465.0, 5521.0, 5252.0, 5538.0, 5501.0, 5344.0, 5659.0, 5292.0, 5291.0, 5323.0, 5282.0, 5433.0, 5502.0, 5566.0, 5256.0, 5476.0, 5461.0, 5449.0, 5570.0, 5589.0, 5522.0, 5520.0, 5718.0, 5362.0, 5547.0, 5484.0, 5555.0, 5601.0, 5471.0, 5380.0, 5535.0, 5420.0, 5404.0, 5499.0, 5452.0, 5508.0, 5391.0, 5378.0, 5353.0, 5287.0, 5365.0, 5616.0, 5368.0, 5444.0, 5313.0, 5595.0, 5363.0, 5687.0, 5524.0, 5694.0, 5640.0, 5479.0, 5498.0, 5620.0, 5503.0, 5582.0, 5608.0, 5645.0, 5322.0, 5390.0, 5407.0, 5387.0, 5286.0, 5626.0, 5262.0, 5343.0, 5272.0, 5714.0, 5513.0 (number of hits: 10)
23	5270	9	1	333	1	5696.0, 5425.0, 5428.0, 5388.0, 5467.0, 5286.0, 5381.0, 5464.0, 5661.0, 5413.0, 5416.0, 5518.0, 5273.0, 5517.0, 5473.0, 5392.0, 5290.0, 5539.0, 5267.0, 5628.0,

						5432.0, 5580.0, 5454.0, 5621.0, 5385.0, 5487.0, 5568.0, 5536.0, 5569.0, 5297.0, 5422.0, 5437.0, 5567.0, 5303.0, 5676.0, 5418.0, 5688.0, 5288.0, 5327.0, 5477.0, 5615.0, 5546.0, 5452.0, 5508.0, 5578.0, 5579.0, 5697.0, 5572.0, 5681.0, 5438.0, 5469.0, 5318.0, 5372.0, 5607.0, 5571.0, 5287.0, 5339.0, 5435.0, 5687.0, 5294.0, 5685.0, 5671.0, 5404.0, 5420.0, 5590.0, 5369.0, 5646.0, 5714.0, 5341.0, 5639.0, 5564.0, 5453.0, 5293.0, 5576.0, 5479.0, 5364.0, 5560.0, 5480.0, 5673.0, 5340.0, 5651.0, 5602.0, 5581.0, 5675.0, 5573.0, 5534.0, 5712.0, 5283.0, 5611.0, 5291.0, 5390.0, 5708.0, 5616.0, 5475.0, 5405.0, 5622.0, 5322.0, 5588.0, 5655.0, 5499.0 (number of hits: 6)
24	5270	9	1	333	1	5629.0, 5268.0, 5410.0, 5579.0, 5597.0, 5550.0, 5487.0, 5449.0, 5330.0, 5483.0, 5596.0, 5294.0, 5571.0, 5492.0, 5296.0, 5669.0, 5670.0, 5645.0, 5690.0, 5448.0, 5354.0, 5523.0, 5692.0, 5624.0, 5301.0, 5414.0, 5682.0, 5368.0, 5677.0, 5252.0, 5409.0, 5556.0, 5654.0, 5711.0, 5529.0, 5533.0, 5558.0, 5373.0, 5656.0, 5722.0, 5467.0, 5593.0, 5527.0, 5686.0, 5691.0, 5473.0, 5359.0, 5314.0, 5256.0, 5398.0, 5583.0, 5703.0, 5539.0, 5594.0, 5663.0, 5491.0, 5688.0, 5362.0, 5521.0, 5683.0, 5269.0, 5554.0, 5665.0, 5695.0, 5454.0, 5578.0, 5689.0, 5459.0, 5394.0, 5283.0, 5498.0, 5348.0, 5616.0, 5380.0, 5618.0, 5512.0, 5418.0, 5369.0, 5306.0, 5598.0, 5451.0, 5622.0, 5602.0, 5625.0, 5613.0, 5666.0, 5424.0, 5575.0, 5430.0, 5340.0, 5580.0, 5375.0, 5605.0, 5453.0, 5496.0, 5366.0, 5538.0, 5292.0, 5356.0, 5589.0 (number of hits: 5)
25	5270	9	1	333	1	5681.0, 5554.0, 5362.0, 5463.0, 5438.0, 5423.0, 5441.0, 5401.0, 5456.0, 5607.0, 5433.0, 5610.0, 5717.0, 5402.0, 5450.0, 5646.0, 5283.0, 5451.0, 5386.0, 5330.0, 5625.0, 5460.0, 5640.0, 5350.0, 5257.0, 5641.0, 5556.0, 5388.0, 5274.0, 5404.0, 5356.0, 5385.0, 5432.0, 5431.0, 5471.0, 5575.0, 5333.0, 5656.0, 5340.0, 5509.0, 5508.0, 5448.0, 5500.0, 5594.0, 5686.0, 5376.0, 5287.0, 5650.0, 5658.0, 5413.0, 5620.0, 5389.0, 5702.0, 5282.0, 5663.0, 5668.0, 5528.0, 5446.0, 5444.0, 5380.0, 5716.0, 5288.0, 5494.0, 5412.0, 5684.0, 5321.0, 5286.0, 5398.0, 5371.0, 5619.0, 5674.0, 5626.0, 5322.0, 5365.0, 5308.0, 5676.0, 5490.0, 5379.0, 5549.0, 5250.0, 5255.0, 5429.0, 5523.0, 5521.0, 5553.0, 5544.0, 5278.0, 5628.0, 5670.0, 5635.0, 5546.0, 5462.0, 5303.0, 5367.0, 5526.0, 5675.0, 5347.0, 5587.0, 5629.0, 5335.0 (number of hits: 10)

26	5270	9	1	333	1	5387.0, 5484.0, 5546.0, 5472.0, 5404.0, 5314.0, 5367.0, 5494.0, 5283.0, 5570.0, 5679.0, 5645.0, 5416.0, 5265.0, 5337.0, 5373.0, 5515.0, 5252.0, 5332.0, 5294.0, 5379.0, 5290.0, 5581.0, 5361.0, 5475.0, 5717.0, 5620.0, 5716.0, 5257.0, 5425.0, 5634.0, 5639.0, 5443.0, 5447.0, 5542.0, 5594.0, 5714.0, 5643.0, 5482.0, 5310.0, 5262.0, 5592.0, 5390.0, 5609.0, 5446.0, 5316.0, 5705.0, 5275.0, 5413.0, 5251.0, 5288.0, 5286.0, 5607.0, 5664.0, 5567.0, 5508.0, 5434.0, 5342.0, 5678.0, 5375.0, 5579.0, 5512.0, 5499.0, 5271.0, 5502.0, 5309.0, 5573.0, 5393.0, 5595.0, 5537.0, 5712.0, 5334.0, 5366.0, 5481.0, 5682.0, 5268.0, 5384.0, 5660.0, 5321.0, 5383.0, 5663.0, 5380.0, 5623.0, 5459.0, 5299.0, 5339.0, 5528.0, 5477.0, 5713.0, 5493.0, 5611.0, 5365.0, 5374.0, 5351.0, 5346.0, 5381.0, 5621.0, 5325.0, 5564.0, 5723.0 (number of hits: 11)
27	5270	9	1	333	1	5676.0, 5494.0, 5666.0, 5306.0, 5654.0, 5420.0, 5262.0, 5723.0, 5647.0, 5436.0, 5313.0, 5488.0, 5459.0, 5267.0, 5338.0, 5547.0, 5574.0, 5567.0, 5253.0, 5352.0, 5528.0, 5470.0, 5705.0, 5695.0, 5287.0, 5365.0, 5360.0, 5275.0, 5370.0, 5615.0, 5363.0, 5408.0, 5579.0, 5274.0, 5690.0, 5664.0, 5622.0, 5346.0, 5372.0, 5394.0, 5266.0, 5688.0, 5672.0, 5265.0, 5399.0, 5393.0, 5402.0, 5406.0, 5630.0, 5452.0, 5299.0, 5300.0, 5609.0, 5301.0, 5449.0, 5621.0, 5422.0, 5457.0, 5283.0, 5453.0, 5601.0, 5634.0, 5616.0, 5362.0, 5698.0, 5419.0, 5303.0, 5296.0, 5718.0, 5339.0, 5689.0, 5536.0, 5254.0, 5308.0, 5713.0, 5415.0, 5261.0, 5349.0, 5258.0, 5554.0, 5669.0, 5369.0, 5699.0, 5324.0, 5534.0, 5468.0, 5586.0, 5341.0, 5598.0, 5575.0, 5367.0, 5673.0, 5410.0, 5405.0, 5525.0, 5646.0, 5515.0, 5610.0, 5293.0, 5548.0 (number of hits: 12)
28	5270	9	1	333	1	5443.0, 5358.0, 5409.0, 5518.0, 5692.0, 5599.0, 5284.0, 5636.0, 5348.0, 5303.0, 5718.0, 5666.0, 5566.0, 5512.0, 5539.0, 5382.0, 5714.0, 5473.0, 5689.0, 5334.0, 5588.0, 5522.0, 5444.0, 5619.0, 5682.0, 5642.0, 5655.0, 5703.0, 5628.0, 5449.0, 5260.0, 5675.0, 5650.0, 5447.0, 5559.0, 5432.0, 5325.0, 5562.0, 5275.0, 5379.0, 5349.0, 5543.0, 5467.0, 5665.0, 5378.0, 5556.0, 5572.0, 5654.0, 5416.0, 5647.0, 5505.0, 5298.0, 5487.0, 5387.0, 5346.0, 5496.0, 5296.0, 5649.0, 5305.0, 5501.0, 5631.0, 5688.0, 5439.0, 5316.0, 5399.0, 5450.0, 5670.0, 5609.0, 5415.0, 5485.0, 5313.0, 5578.0, 5337.0, 5280.0, 5661.0, 5254.0, 5560.0, 5567.0, 5711.0, 5373.0, 5702.0, 5388.0, 5345.0, 5676.0, 5680.0,

						5621.0, 5691.0, 5489.0, 5573.0, 5259.0, 5710.0, 5613.0, 5577.0, 5671.0, 5353.0, 5322.0, 5580.0, 5458.0, 5393.0, 5405.0 (number of hits: 6)
29	5270	9	1	333	1	5605.0, 5627.0, 5520.0, 5453.0, 5636.0, 5279.0, 5568.0, 5289.0, 5580.0, 5301.0, 5650.0, 5599.0, 5718.0, 5302.0, 5621.0, 5433.0, 5361.0, 5435.0, 5354.0, 5450.0, 5600.0, 5370.0, 5312.0, 5509.0, 5265.0, 5704.0, 5526.0, 5284.0, 5486.0, 5345.0, 5571.0, 5271.0, 5510.0, 5276.0, 5465.0, 5688.0, 5613.0, 5278.0, 5522.0, 5495.0, 5482.0, 5316.0, 5591.0, 5462.0, 5409.0, 5483.0, 5567.0, 5577.0, 5507.0, 5298.0, 5320.0, 5348.0, 5469.0, 5706.0, 5566.0, 5421.0, 5724.0, 5258.0, 5637.0, 5639.0, 5477.0, 5255.0, 5403.0, 5651.0, 5628.0, 5524.0, 5338.0, 5607.0, 5422.0, 5350.0, 5631.0, 5699.0, 5506.0, 5262.0, 5353.0, 5313.0, 5521.0, 5491.0, 5604.0, 5719.0, 5315.0, 5261.0, 5444.0, 5594.0, 5263.0, 5398.0, 5368.0, 5297.0, 5420.0, 5341.0, 5614.0, 5535.0, 5654.0, 5355.0, 5332.0, 5456.0, 5693.0, 5689.0, 5558.0, 5396.0 (number of hits: 12)
30	5270	9	1	333	1	5549.0, 5262.0, 5669.0, 5397.0, 5525.0, 5309.0, 5260.0, 5308.0, 5682.0, 5667.0, 5704.0, 5337.0, 5546.0, 5439.0, 5321.0, 5440.0, 5621.0, 5360.0, 5441.0, 5652.0, 5385.0, 5638.0, 5379.0, 5470.0, 5594.0, 5339.0, 5543.0, 5685.0, 5531.0, 5711.0, 5400.0, 5595.0, 5357.0, 5717.0, 5420.0, 5671.0, 5678.0, 5493.0, 5497.0, 5673.0, 5448.0, 5458.0, 5633.0, 5307.0, 5684.0, 5618.0, 5447.0, 5647.0, 5477.0, 5361.0, 5660.0, 5662.0, 5644.0, 5292.0, 5259.0, 5575.0, 5600.0, 5430.0, 5280.0, 5599.0, 5579.0, 5683.0, 5404.0, 5702.0, 5435.0, 5630.0, 5410.0, 5310.0, 5253.0, 5508.0, 5580.0, 5442.0, 5639.0, 5689.0, 5383.0, 5507.0, 5290.0, 5602.0, 5297.0, 5463.0, 5409.0, 5369.0, 5561.0, 5363.0, 5723.0, 5422.0, 5511.0, 5457.0, 5476.0, 5559.0, 5605.0, 5449.0, 5437.0, 5632.0, 5509.0, 5612.0, 5330.0, 5698.0, 5515.0, 5628.0 (number of hits: 5)

5290 MHz, 80 MHz Bandwidth

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1A/1B	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:

5290 MHz, 80 MHz Bandwidth

Table-1A/1B Radar Type 1A/1B Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5290	57	1	938	1
2	5290	63	1	838	1
3	5290	58	1	918	1
4	5290	81	1	658	1
5	5290	76	1	698	1
6	5290	61	1	878	1
7	5290	68	1	778	1
8	5290	92	1	578	1
9	5290	102	1	518	1
10	5290	86	1	618	1
11	5290	72	1	738	1
12	5290	74	1	718	1
13	5290	67	1	798	1
14	5290	59	1	898	1
15	5290	95	1	558	1
16	5290	56	1	957	1
17	5290	26	1	2091	1
18	5290	53	1	997	1
19	5290	23	1	2330	1
20	5290	26	1	2072	1
21	5290	35	1	1543	1
22	5290	23	1	2387	1
23	5290	22	1	2489	1
24	5290	31	1	1755	1
25	5290	18	1	2943	1
26	5290	21	1	2597	1
27	5290	27	1	2001	1
28	5290	23	1	2353	1
29	5290	35	1	1524	1
30	5290	19	1	2848	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	5290	25	1.3	211	1
2	5290	27	2.9	229	1
3	5290	24	1.9	169	1
4	5290	23	2.1	226	1
5	5290	28	4.6	220	1
6	5290	26	5	182	1
7	5290	29	2.6	223	1
8	5290	28	2.7	229	1
9	5290	29	1.3	158	1
10	5290	26	2.6	179	1
11	5290	24	1.7	226	1
12	5290	24	2.4	212	1
13	5290	26	3.4	176	1
14	5290	26	3.5	158	1
15	5290	28	3.5	203	1
16	5290	27	3.3	189	1
17	5290	24	1.4	155	1
18	5290	28	3.5	196	1
19	5290	29	3.8	176	1
20	5290	29	4.1	170	1
21	5290	29	4.7	191	1
22	5290	27	4	179	1
23	5290	28	1.3	180	1
24	5290	27	2.1	207	1
25	5290	28	5	151	1
26	5290	29	2.4	180	1
27	5290	27	3.2	221	1
28	5290	25	2.6	190	1
29	5290	27	3.6	150	1
30	5290	29	3.6	164	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	5290	18	6.2	478	1
2	5290	17	9.5	227	1
3	5290	18	8.6	247	1
4	5290	17	7.2	316	1
5	5290	17	7.4	403	1
6	5290	18	8.9	365	1
7	5290	17	6.3	283	1
8	5290	16	8.8	492	1
9	5290	18	6.2	350	1
10	5290	18	6.5	385	1
11	5290	18	6.4	324	1
12	5290	17	8.5	232	1
13	5290	17	6.7	406	1
14	5290	18	9.8	399	1
15	5290	17	7.1	328	1
16	5290	18	9.4	367	1
17	5290	16	7	241	1
18	5290	17	9.2	500	1
19	5290	18	9.6	375	1
20	5290	16	8.8	248	1
21	5290	18	7.3	278	1
22	5290	18	9.1	293	1
23	5290	18	7.7	294	1
24	5290	18	7.3	478	1
25	5290	16	6.5	236	1
26	5290	18	8.2	271	1
27	5290	16	8.6	261	1
28	5290	16	6.7	270	1
29	5290	16	6.9	339	1
30	5290	18	8.4	331	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	5290	12	17.9	472	1
2	5290	14	14.3	498	1
3	5290	12	16	266	1
4	5290	16	18.4	333	1
5	5290	15	15.9	208	1
6	5290	13	11.6	305	1
7	5290	16	19.7	275	1
8	5290	14	12.5	369	1
9	5290	12	19.7	244	1
10	5290	13	11.6	371	1
11	5290	13	14.4	234	1
12	5290	16	16.1	278	1
13	5290	15	15.1	438	1
14	5290	15	16.5	396	1
15	5290	15	11	413	1
16	5290	15	11.4	222	1
17	5290	16	13.5	360	1
18	5290	15	18	499	1
19	5290	13	16.3	477	1
20	5290	12	15	214	1
21	5290	16	11.3	458	1
22	5290	15	11.6	454	1
23	5290	12	19.2	436	1
24	5290	16	19.4	484	1
25	5290	12	17.3	283	1
26	5290	12	13	314	1
27	5290	16	17.2	481	1
28	5290	14	20	220	1
29	5290	14	13.8	254	1
30	5290	14	19.1	348	1
Detection Percentage: 93.33 % (>60%)					

Table-5 Radar Type 5 Statistical Performance

Trial #	Fc (MHz)	Detection (1:yes; 0:no)
1	5290	1
2	5290	1
3	5290	1
4	5290	1
5	5290	1
6	5290	1
7	5290	1
8	5290	1
9	5290	1
10	5290	1
11	5256.8	1
12	5257.2	1
13	5258.0	1
14	5253.6	1
15	5255.6	1
16	5255.2	1
17	5253.6	1
18	5254.4	1
19	5256.8	1
20	5257.6	1
21	5324.4	1
22	5326.4	1
23	5326.0	1
24	5325.2	1
25	5327.2	1
26	5324.4	1
27	5326.4	1
28	5324.8	1
29	5324.0	1
30	5326.4	1
Detection Percentage: 100 % (>80%)		

Bin5 Statistics 1

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	11	53.9	1332		0.677416	1
1	1	11	87.1			2.128069	
2	2	11	94.2	1835		3.105129	
3	1	11	94			4.778169	
4	2	11	59.6	1014		5.230132	
5	1	11	97.1			6.966807	
6	2	11	64.7	1369		7.745112	
7	3	11	54.3	1783	1057	9.443563	
8	2	11	87.8	1101		10.124016	
9	3	11	52	1637	1833	11.276689	

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	10	63	1114	1198	0.434565	1
1	1	10	54.8			1.627382	
2	2	10	98.6	1518		2.270014	
3	2	10	86.1	1802		2.880341	
4	2	10	71.2	1128		3.622136	
5	2	10	57.9	1523		4.517389	
6	2	10	91.5	1616		5.592961	
7	3	10	85.1	1209	1973	6.294175	
8	2	10	66.2	1800		7.019059	
9	3	10	81.7	1118	1456	8.010927	
10	3	10	62.5	1255	1703	8.96056	
11	2	10	85.7	1457		10.088218	
12	2	10	57.9	1234		10.551518	
13	3	10	59.7	1747	1384	11.349968	

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	63.7			0.293056	1
1	3	6	86.5	1350	1447	0.83945	
2	1	6	63.2			1.350788	
3	3	6	51.4	1267	1399	2.37781	
4	2	6	78.5	1572		2.698698	
5	2	6	87.4	1724		3.602711	
6	3	6	89.3	1563	1522	4.083308	
7	2	6	79.8	1339		5.281569	
8	1	6	54			5.519004	
9	1	6	59			6.58276	
10	2	6	72	1490		6.79504	
11	1	6	66.3			7.669661	
12	3	6	73.9	1681	1320	8.130924	
13	2	6	77.9	1949		9.235098	
14	1	6	57.5			9.829474	
15	1	6	96.4			10.618977	
16	1	6	68.4			11.249092	
17	3	6	54.5	1332	1140	11.340614	

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	9	57.4	1623		0.307152	
1	3	9	84.6	1898	1482	1.153872	
2	1	9	92.7			1.596609	
3	2	9	79.7	1898		2.426584	
4	2	9	60.3	1220		2.938783	
5	2	9	80.1	1418		3.483977	
6	1	9	69.5			4.022129	
7	2	9	79.4	1648		4.870297	
8	2	9	72.4	1592		5.608858	
9	2	9	57.6	1729		6.078845	1
10	1	9	95.8			6.519302	
11	2	9	68.7	1720		7.21391	
12	1	9	81.2			7.683983	
13	3	9	66.7	1591	1979	8.381384	
14	2	9	73.4	1968		9.015994	
15	3	9	84.5	1654	1092	9.878852	
16	1	9	55.6			10.317072	
17	3	9	98.1	1623	1416	10.747054	
18	3	9	65.1	1384	1748	11.83423	

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	14	74.9			0.858196	
1	2	14	78.8	1489		1.529891	
2	2	14	89.2	1679		3.8318	
3	3	14	72.4	1562	1322	5.133349	1
4	3	14	98.3	1608	1333	6.605633	
5	3	14	82.1	1126	1481	8.643962	
6	2	14	80.2	1352		10.069491	
7	3	14	55.6	1097	1009	10.896363	

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	6	86.5			0.125694	1
1	3	6	97.6	1550	1578	0.660666	
2	2	6	91	1685		1.718462	
3	2	6	97.4	1702		2.248428	
4	2	6	93.3	1666		2.941344	
5	3	6	65.6	1338	1301	3.490202	
6	3	6	76.9	1412	1833	3.735883	
7	1	6	76.6			4.505921	
8	2	6	82.9	1003		5.350323	
9	3	6	60.3	1379	1550	5.514473	
10	3	6	55	1508	1420	6.243814	
11	1	6	59.3			6.635308	
12	2	6	93.3	1435		7.240695	
13	2	6	83.9	1963		8.175274	
14	1	6	84.2			8.659882	
15	1	6	71.1			9.148656	
16	3	6	78.6	1508	1281	9.986505	
17	1	6	67.6			10.615074	
18	3	6	72.5	1129	1264	11.341614	
19	2	6	79.6	1213		11.619083	

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	95.1	1448		0.299068	
1	3	6	93.6	1994	1928	0.742025	
2	2	6	85.8	1796		1.989948	
3	1	6	84.8			2.1738	
4	1	6	88.5			3.507237	
5	2	6	91.2	1930		3.942369	
6	2	6	54.9	1753		4.568474	
7	3	6	61.1	1337	1888	4.958325	
8	1	6	66.4			5.975684	1
9	2	6	91.4	1135		6.71618	
10	3	6	63.2	1376	1732	7.128974	
11	2	6	68.2	1123		8.228482	
12	2	6	76	1254		8.630694	
13	2	6	76.6	1349		9.626746	
14	2	6	90.4	1368		9.929655	
15	2	6	69.6	1284		10.734864	
16	2	6	73.8	1208		11.794874	

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	8	54			0.109556	
1	2	8	54.2	1740		0.943886	
2	2	8	76.1	1652		1.659983	
3	2	8	65	1834		2.082026	
4	2	8	82.6	1973		2.545655	
5	3	8	70.7	1017	1680	3.61038	
6	2	8	83.7	1976		3.878212	
7	1	8	99.7			4.828922	
8	1	8	67.1			5.528955	
9	2	8	80.9	1130		5.833883	1
10	1	8	83.3			6.860102	
11	2	8	70.3	1330		7.173695	
12	2	8	90	1911		7.706753	
13	1	8	68.1			8.218315	
14	1	8	84.4			8.929296	
15	3	8	88	1346	1353	9.526689	
16	1	8	92.9			10.494951	
17	2	8	69.3	1772		11.306441	
18	3	8	75.9	1382	1821	11.927002	

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	6	91.8	1038		0.524092	
1	2	6	74.9	1866		0.966006	
2	2	6	93.9	1808		2.646018	
3	1	6	83.3			3.655733	
4	2	6	50.1	1796		4.283939	
5	1	6	78.3			5.468586	
6	2	6	62.7	1327		5.873076	1
7	2	6	67	1519		7.341662	
8	3	6	62.4	1261	1963	7.843375	
9	1	6	88.2			8.919969	
10	2	6	51.8	1372		10.083808	
11	1	6	91.3			10.565331	
12	2	6	59.9	1145		11.246867	

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	11	61.8	1342	1180	0.178001	
1	2	11	67.4	1636		0.974716	
2	3	11	70.6	1669	1678	1.535243	
3	2	11	81.2	1345		2.77366	
4	2	11	54	1683		3.696523	
5	2	11	63	1454		3.958591	
6	1	11	75.6			4.534025	
7	3	11	51.8	1427	1105	5.725867	1
8	2	11	72.9	1554		6.006701	
9	2	11	86.3	1473		6.820565	
10	1	11	86.1			7.906834	
11	3	11	98.8	1385	1688	8.577269	
12	1	11	63.4			9.115	
13	3	11	56.5	1000	1476	10.091602	
14	3	11	60.1	1172	1629	10.523504	
15	2	11	58.7	1773		11.99339	

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	17	73.1	1434	1175	0.186465	1
1	2	17	66.8	1881		1.242952	
2	1	17	99.7			1.69307	
3	2	17	98.5	1841		2.360997	
4	2	17	91.5	1278		2.887431	
5	3	17	90.1	1255	1046	3.563634	
6	2	17	75.6	1520		4.291112	
7	1	17	58.8			5.124748	
8	3	17	66.6	1442	1173	5.983648	
9	3	17	53.8	1321	1052	6.483367	
10	2	17	60.6	1002		7.1469	
11	2	17	88.3	1864		7.659907	
12	2	17	96.7	1830		8.284589	
13	2	17	82.9	1675		9.314764	
14	3	17	95.5	1780	1709	9.654757	
15	2	17	85.1	1051		10.49075	
16	1	17	82.2			10.993896	
17	3	17	70.2	1123	1113	11.753139	

Bin5 Statistics 12

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	18	81.7			0.644044	1
1	3	18	69.9	1566	1276	1.48041	
2	3	18	78.2	1010	1744	2.720118	
3	2	18	84	1905		4.560124	
4	2	18	86.1	1976		5.25078	
5	2	18	83	1712		6.857064	
6	3	18	57.6	1413	1632	7.780037	
7	2	18	98	1992		9.211843	
8	2	18	79.6	1143		10.67097	
9	2	18	61.3	1325		11.829873	

Bin5 Statistics 13

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	20	91.4			0.700485	1
1	3	20	57.8	1860	1492	1.246032	
2	3	20	87.5	1893	1759	3.196624	
3	2	20	84.1	1383		3.73178	
4	2	20	88.9	1585		5.313181	
5	2	20	58.5	1228		6.591951	
6	1	20	94.2			8.325625	
7	1	20	67.4			8.969708	
8	2	20	73.7	1867		10.497945	
9	2	20	93.1	1610		11.017644	

Bin5 Statistics 14

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	9	93.4	1941	1800	0.497393	1
1	2	9	73.5	1153		1.213469	
2	3	9	98.5	1571	1515	1.84037	
3	3	9	54	1920	1718	2.316876	
4	2	9	51.3	1902		3.055466	
5	1	9	86.1			3.639082	
6	1	9	73.5			4.113526	
7	2	9	80.3	1287		5.006039	
8	3	9	60.7	1022	1904	5.714112	
9	2	9	65.6	1841		6.228277	
10	3	9	85.3	1298	1508	7.169161	
11	2	9	69.8	1876		7.66	
12	2	9	89.6	1419		8.080204	
13	3	9	56.2	1875	1594	9.10062	
14	2	9	89.7	1883		9.504572	
15	3	9	65.3	1436	1344	10.468118	
16	3	9	58.7	1081	1141	10.827684	
17	2	9	79.8	1931		11.721607	

Bin5 Statistics 15

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	14	66.1			0.130156	1
1	3	14	54.8	1826	1514	1.320996	
2	1	14	78.9			1.7862	
3	2	14	73.7	1995		2.556572	
4	2	14	64.3	1752		3.411809	
5	2	14	89.2	1136		4.45663	
6	2	14	95.3	1713		4.834057	
7	1	14	92.2			5.654646	
8	2	14	75.5	1049		6.154857	
9	3	14	55.5	1808	1131	6.999129	
10	3	14	95.6	1254	1984	7.70738	
11	1	14	68.5			8.959297	
12	3	14	99.4	1720	1218	9.559573	
13	2	14	56.5	1917		9.825707	
14	1	14	99.2			10.842877	
15	2	14	89.4	1564		11.903533	

Bin5 Statistics 16

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	13	85.5			0.497523	1
1	1	13	88.7			1.394575	
2	2	13	56.4	1528		2.63514	
3	2	13	55.7	1976		3.433933	
4	2	13	78.2	1524		4.365887	
5	2	13	72.1	1664		5.072771	
6	3	13	99.3	1502	1541	6.225881	
7	1	13	98			6.74665	
8	2	13	96.4	1431		8.009336	
9	3	13	89.1	1075	1662	8.55637	
10	1	13	85.2			9.668236	
11	1	13	70.6			10.914536	
12	3	13	86.5	1678	1883	11.450672	

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	9	57.7	1080		0.54113	
1	2	9	99.8	1157		1.191587	
2	3	9	51	1814	1045	1.569435	
3	1	9	61.8			2.521343	
4	3	9	76.1	1471	1365	3.310752	
5	3	9	97.9	1868	1859	4.117206	
6	1	9	93.6			4.789783	
7	2	9	58.4	1480		5.123432	
8	1	9	95.6			6.18119	1
9	3	9	55.8	1578	1847	6.680653	
10	3	9	50.2	1202	1324	7.0836	
11	1	9	75.4			7.957926	
12	2	9	52.5	1350		8.637048	
13	1	9	73			9.391586	
14	2	9	81.4	1331		10.41816	
15	1	9	80.9			10.692476	
16	2	9	97.3	1095		11.590227	

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	11	70.7	1576		0.022139	
1	1	11	50.4			0.762593	
2	1	11	90.2			1.81554	
3	1	11	94.9			2.365716	
4	3	11	97.5	1101	1051	3.287462	
5	2	11	85.4	1987		3.721455	
6	3	11	98.7	1466	1287	4.924456	
7	1	11	93.2			5.259339	
8	2	11	88.3	1718		6.027744	1
9	2	11	72.5	1987		6.610909	
10	3	11	58.2	1453	1930	7.674519	
11	2	11	85.5	1628		7.950094	
12	1	11	68.9			8.648825	
13	3	11	86	1165	1075	9.695557	
14	3	11	74.3	1705	1701	10.514283	
15	2	11	80	1317		10.617728	
16	1	11	68.7			11.402848	

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	17	82.6	1019	1269	0.237411	
1	2	17	62.7	1005		0.796061	
2	2	17	74.3	1513		1.849374	
3	3	17	91.1	1391	1729	2.678871	
4	3	17	72.5	1246	1891	3.476763	
5	3	17	92.6	1969	1459	3.999203	
6	2	17	74.6	1458		4.857153	
7	3	17	75.9	1449	1031	5.289889	
8	1	17	65			6.136585	1
9	3	17	75.7	1277	1328	6.621674	
10	2	17	88.2	1458		7.119659	
11	3	17	58.8	1563	1363	8.415974	
12	3	17	51.8	1241	1956	9.009284	
13	1	17	94.8			9.805438	
14	2	17	56.4	1999		10.425477	
15	2	17	65.2	1106		10.759559	
16	2	17	83	1210		11.867333	

Bin5 Statistics 20

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	19	87.7			0.846176	
1	1	19	71.4			1.547861	
2	2	19	94.5	1448		1.954028	
3	2	19	56.6	1292		3.429414	
4	2	19	69.7	1334		4.284716	
5	3	19	95.1	1443	1053	5.371936	
6	2	19	90.9	1352		5.710513	1
7	2	19	66.6	1559		6.837308	
8	2	19	92.5	1641		7.865102	
9	1	19	63.8			8.789803	
10	1	19	88.8			9.954669	
11	2	19	75.5	1613		10.78887	
12	1	19	63.1			11.730048	

Bin5 Statistics 21

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	14	81.6			0.597313	1
1	2	14	87.8	1008		0.980002	
2	2	14	60.3	1706		2.129937	
3	1	14	59.6			2.60106	
4	1	14	87.3			3.696454	
5	2	14	74.2	1732		4.315836	
6	3	14	51.3	1077	1558	5.124494	
7	2	14	84.9	1500		5.789699	
8	2	14	81.4	1180		6.31585	
9	1	14	84.8			7.05541	
10	2	14	50	1699		7.945734	
11	2	14	90.7	1954		8.250003	
12	1	14	50.9			9.238677	
13	2	14	97.1	1707		9.857196	
14	1	14	52.2			10.566937	
15	1	14	65.9			11.806235	

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	9	89.7			0.478597	1
1	2	9	58.2	1957		1.538463	
2	2	9	52.9	1995		2.250978	
3	2	9	96.6	1375		2.824811	
4	3	9	74.6	1932	1134	3.695262	
5	2	9	56.4	1486		4.151417	
6	1	9	95.9			5.040583	
7	2	9	89.5	1907		6.070958	
8	3	9	79.3	1759	1901	7.023198	
9	1	9	98.1			7.367732	
10	3	9	65	1802	1317	8.499261	
11	1	9	98.3			9.477918	
12	1	9	78.5			10.317136	
13	1	9	70.4			11.099947	
14	3	9	97.1	1351	1178	11.372907	

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	51.7			0.637861	1
1	1	10	94.2			0.925693	
2	2	10	68.2	1130		2.140583	
3	1	10	59			2.450847	
4	3	10	52.8	1113	1353	3.457724	
5	2	10	60.8	1217		4.702037	
6	2	10	74.3	1109		5.260933	
7	1	10	91.7			6.316024	
8	2	10	73.4	1967		6.413664	
9	2	10	96.9	1473		7.827731	
10	1	10	92			8.017564	
11	2	10	87.3	1889		9.582484	
12	2	10	73.1	1513		9.698322	
13	3	10	96.1	1741	1910	11.172838	
14	2	10	82.2	1975		11.27074	

Bin5 Statistics 24

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	12	66.8	1265		0.724904	1
1	3	12	74.5	1780	1685	1.334728	
2	2	12	82.7	1261		1.839994	
3	1	12	57.6			2.690527	
4	1	12	70.4			3.446733	
5	2	12	77.4	1385		4.264433	
6	2	12	59.9	1386		4.615393	
7	2	12	99.4	1919		5.818931	
8	3	12	62.7	1341	1938	6.671218	
9	2	12	97.5	1517		7.261236	
10	2	12	71.3	1165		8.011707	
11	2	12	74.3	1738		8.905126	
12	2	12	87.8	1312		9.257664	
13	3	12	62.2	1817	1761	10.136504	
14	3	12	55.7	1184	1537	10.710399	
15	2	12	82.5	1337		11.683158	

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	7	63.8	1476		0.057995	1
1	2	7	85.8	1450		1.111126	
2	1	7	93.6			1.855642	
3	1	7	78.8			2.639685	
4	1	7	87.2			3.303497	
5	2	7	83.8	1808		3.761965	
6	1	7	53.6			4.589913	
7	3	7	54.3	1155	1895	5.832802	
8	3	7	56.6	1588	1874	6.20374	
9	2	7	90.4	1048		7.259756	
10	2	7	65.3	1267		7.535545	
11	2	7	74.6	1424		8.269874	
12	3	7	97	1552	1857	9.353688	
13	3	7	69.9	1250	1822	10.23694	
14	1	7	52.6			11.011915	
15	1	7	58.5			11.861744	

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	14	56.4	1244		0.000624	1
1	2	14	91.4	1715		1.850875	
2	3	14	70	1919	1294	3.210949	
3	2	14	59.4	1844		4.864747	
4	3	14	74	1505	1708	7.043888	
5	3	14	82.3	1528	1147	8.614169	
6	2	14	89.2	1193		9.636005	
7	1	14	75.3			11.41225	

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	9	92.9	1511		0.82359	1
1	2	9	57.9	1589		1.475578	
2	2	9	86.9	1772		2.566867	
3	2	9	59.9	1785		3.356963	
4	2	9	72.5	1532		4.453867	
5	3	9	54.2	1617	1208	5.689624	
6	2	9	58.3	1107		6.971562	
7	3	9	94	1607	1827	7.849888	
8	2	9	98.9	1382		8.944198	
9	1	9	67.6			9.824646	
10	2	9	78.4	1244		10.6789	
11	2	9	87.6	1644		11.075066	

Bin5 Statistics 28

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	13	90.7			0.156675	1
1	1	13	76.7			1.490177	
2	2	13	75.2	1552		2.003166	
3	3	13	66	1845	1786	3.434358	
4	2	13	66.8	1568		4.177197	
5	2	13	62.4	1730		5.199213	
6	3	13	96.2	1729	1173	6.350474	
7	3	13	61.4	1801	1450	7.489443	
8	3	13	68.8	1217	1650	8.936704	
9	3	13	84	1627	1238	9.720171	
10	2	13	66.8	1014		10.303547	
11	1	13	83.4			11.132686	

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	15	98.4	1331		0.894835	1
1	1	15	74.9			1.910083	
2	2	15	74.4	1533		2.245276	
3	2	15	52.4	1583		3.873057	
4	3	15	62.3	1124	1469	4.527991	
5	1	15	83.6			5.179291	
6	1	15	50.7			6.811131	
7	1	15	73.6			7.251904	
8	2	15	86.6	1451		8.595179	
9	2	15	66.2	1319		9.434243	
10	3	15	87.8	1497	1170	10.634116	
11	3	15	51.2	1470	1415	11.473569	

Bin5 Statistics 30

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	9	54.1	1391	1293	0.337665	1
1	2	9	97	1888		1.049667	
2	2	9	58.9	1929		1.682433	
3	2	9	75.9	1265		2.61709	
4	1	9	88.2			3.498924	
5	1	9	82.3			3.847542	
6	2	9	57.4	1752		4.963248	
7	2	9	71.8	1840		5.4446	
8	1	9	67.6			6.656612	
9	1	9	66.7			7.423424	
10	2	9	69.8	1546		8.103375	
11	2	9	59.5	1502		8.415642	
12	2	9	70	1488		9.106318	
13	2	9	64.2	1549		10.253286	
14	3	9	64.3	1629	1885	10.878058	
15	3	9	62.2	1224	1212	11.816516	

Table-6 Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)	Hopping Sequence
1	5290	9	1	333	1	5618.0, 5704.0, 5443.0, 5708.0, 5253.0, 5347.0, 5345.0, 5687.0, 5366.0, 5564.0, 5526.0, 5336.0, 5513.0, 5542.0, 5531.0, 5409.0, 5368.0, 5448.0, 5617.0, 5380.0, 5446.0, 5669.0, 5536.0, 5313.0, 5468.0, 5565.0, 5399.0, 5533.0, 5288.0, 5494.0, 5702.0, 5301.0, 5520.0, 5529.0, 5259.0, 5578.0, 5575.0, 5424.0, 5593.0, 5397.0, 5440.0, 5511.0, 5374.0, 5552.0, 5391.0, 5541.0, 5482.0, 5489.0, 5507.0, 5338.0, 5323.0, 5369.0, 5621.0, 5633.0, 5317.0, 5655.0, 5265.0, 5657.0, 5607.0, 5283.0, 5294.0, 5634.0, 5595.0, 5405.0, 5581.0, 5442.0, 5605.0, 5521.0, 5639.0, 5344.0, 5427.0, 5612.0, 5584.0, 5418.0, 5662.0, 5524.0, 5670.0, 5579.0, 5675.0, 5523.0, 5333.0, 5722.0, 5615.0, 5668.0, 5316.0, 5349.0, 5609.0, 5463.0, 5341.0, 5308.0, 5504.0, 5555.0, 5394.0, 5693.0, 5506.0, 5460.0, 5356.0, 5676.0, 5434.0, 5255.0 (number of hits: 13)
2	5290	9	1	333	1	5365.0, 5628.0, 5448.0, 5522.0, 5364.0, 5414.0, 5722.0, 5689.0, 5663.0, 5430.0, 5455.0, 5480.0, 5275.0, 5293.0, 5265.0, 5363.0, 5609.0, 5509.0, 5463.0, 5394.0, 5690.0, 5541.0, 5461.0, 5261.0, 5260.0, 5256.0, 5687.0, 5347.0, 5668.0, 5561.0, 5383.0, 5629.0, 5579.0, 5350.0, 5593.0, 5262.0, 5416.0, 5638.0, 5343.0, 5693.0, 5659.0, 5478.0, 5389.0, 5710.0, 5675.0, 5677.0, 5506.0, 5701.0, 5356.0, 5451.0, 5666.0, 5355.0, 5423.0, 5719.0, 5616.0, 5667.0, 5352.0, 5462.0, 5639.0, 5486.0, 5338.0, 5464.0, 5450.0, 5555.0, 5465.0, 5653.0, 5529.0, 5641.0, 5308.0, 5656.0, 5361.0, 5395.0, 5292.0, 5524.0, 5527.0, 5314.0, 5320.0, 5684.0, 5346.0, 5526.0, 5432.0, 5640.0, 5714.0, 5614.0, 5597.0, 5540.0, 5520.0, 5294.0, 5678.0, 5435.0, 5605.0, 5304.0, 5664.0, 5393.0, 5712.0, 5313.0, 5362.0, 5698.0, 5655.0, 5528.0 (number of hits: 14)
3	5290	9	1	333	1	5624.0, 5587.0, 5442.0, 5512.0, 5619.0, 5611.0, 5375.0, 5441.0, 5584.0, 5470.0, 5686.0, 5650.0, 5252.0, 5338.0, 5508.0, 5681.0, 5312.0, 5603.0, 5373.0, 5485.0, 5696.0, 5385.0, 5345.0, 5411.0, 5296.0, 5455.0, 5535.0, 5652.0, 5623.0, 5637.0, 5711.0, 5334.0, 5429.0, 5625.0, 5559.0, 5519.0, 5501.0, 5542.0, 5361.0, 5437.0, 5499.0, 5546.0, 5609.0, 5560.0, 5693.0, 5409.0, 5497.0, 5340.0, 5478.0, 5270.0, 5577.0, 5367.0, 5268.0, 5514.0, 5432.0,

						5250.0, 5418.0, 5702.0, 5390.0, 5447.0, 5420.0, 5589.0, 5308.0, 5549.0, 5324.0, 5273.0, 5590.0, 5679.0, 5517.0, 5628.0, 5617.0, 5529.0, 5600.0, 5491.0, 5694.0, 5354.0, 5443.0, 5305.0, 5481.0, 5649.0, 5458.0, 5555.0, 5341.0, 5480.0, 5272.0, 5281.0, 5722.0, 5430.0, 5399.0, 5689.0, 5416.0, 5495.0, 5556.0, 5655.0, 5328.0, 5527.0, 5290.0, 5254.0, 5588.0, 5365.0 (number of hits: 15)
4	5290	9	1	333	1	5618.0, 5627.0, 5606.0, 5360.0, 5531.0, 5284.0, 5320.0, 5464.0, 5647.0, 5457.0, 5629.0, 5478.0, 5620.0, 5561.0, 5389.0, 5335.0, 5713.0, 5613.0, 5566.0, 5667.0, 5399.0, 5522.0, 5444.0, 5611.0, 5382.0, 5688.0, 5328.0, 5546.0, 5493.0, 5666.0, 5342.0, 5585.0, 5440.0, 5501.0, 5403.0, 5442.0, 5512.0, 5534.0, 5254.0, 5310.0, 5441.0, 5679.0, 5299.0, 5421.0, 5428.0, 5656.0, 5497.0, 5401.0, 5605.0, 5397.0, 5326.0, 5423.0, 5319.0, 5294.0, 5443.0, 5255.0, 5266.0, 5584.0, 5644.0, 5378.0, 5396.0, 5488.0, 5311.0, 5256.0, 5390.0, 5494.0, 5693.0, 5551.0, 5357.0, 5694.0, 5544.0, 5690.0, 5467.0, 5308.0, 5700.0, 5563.0, 5661.0, 5576.0, 5639.0, 5340.0, 5532.0, 5508.0, 5672.0, 5698.0, 5599.0, 5712.0, 5617.0, 5505.0, 5480.0, 5268.0, 5295.0, 5296.0, 5490.0, 5434.0, 5448.0, 5659.0, 5337.0, 5385.0, 5336.0, 5638.0 (number of hits: 17)
5	5290	9	1	333	1	5447.0, 5566.0, 5398.0, 5331.0, 5519.0, 5252.0, 5365.0, 5253.0, 5588.0, 5502.0, 5690.0, 5463.0, 5369.0, 5578.0, 5689.0, 5449.0, 5723.0, 5298.0, 5397.0, 5413.0, 5549.0, 5484.0, 5302.0, 5341.0, 5535.0, 5497.0, 5339.0, 5533.0, 5619.0, 5411.0, 5454.0, 5399.0, 5314.0, 5585.0, 5466.0, 5582.0, 5403.0, 5541.0, 5712.0, 5651.0, 5415.0, 5570.0, 5663.0, 5344.0, 5494.0, 5540.0, 5491.0, 5395.0, 5479.0, 5420.0, 5408.0, 5605.0, 5600.0, 5634.0, 5662.0, 5372.0, 5586.0, 5405.0, 5299.0, 5614.0, 5324.0, 5612.0, 5393.0, 5571.0, 5276.0, 5658.0, 5489.0, 5698.0, 5563.0, 5495.0, 5422.0, 5714.0, 5427.0, 5525.0, 5572.0, 5265.0, 5310.0, 5434.0, 5696.0, 5569.0, 5334.0, 5513.0, 5384.0, 5476.0, 5546.0, 5452.0, 5609.0, 5534.0, 5471.0, 5347.0, 5702.0, 5591.0, 5453.0, 5288.0, 5440.0, 5653.0, 5446.0, 5633.0, 5321.0, 5480.0 (number of hits: 12)
6	5290	9	1	333	1	5353.0, 5541.0, 5469.0, 5479.0, 5720.0, 5477.0, 5366.0, 5692.0, 5636.0, 5375.0, 5387.0, 5364.0, 5507.0, 5265.0, 5298.0, 5314.0, 5622.0, 5299.0, 5657.0, 5296.0, 5719.0, 5672.0, 5644.0, 5551.0, 5258.0, 5267.0, 5255.0, 5646.0, 5348.0, 5624.0, 5321.0, 5537.0, 5626.0, 5497.0, 5597.0,

						5635.0, 5379.0, 5533.0, 5498.0, 5591.0, 5463.0, 5661.0, 5559.0, 5316.0, 5509.0, 5584.0, 5713.0, 5486.0, 5266.0, 5601.0, 5274.0, 5589.0, 5339.0, 5261.0, 5600.0, 5295.0, 5259.0, 5481.0, 5466.0, 5461.0, 5269.0, 5453.0, 5612.0, 5276.0, 5679.0, 5671.0, 5361.0, 5592.0, 5514.0, 5634.0, 5520.0, 5332.0, 5620.0, 5547.0, 5701.0, 5670.0, 5435.0, 5302.0, 5555.0, 5456.0, 5552.0, 5308.0, 5550.0, 5464.0, 5333.0, 5354.0, 5473.0, 5524.0, 5623.0, 5711.0, 5708.0, 5596.0, 5553.0, 5500.0, 5422.0, 5421.0, 5480.0, 5318.0, 5409.0, 5360.0 (number of hits: 20)
7	5290	9	1	333	1	5297.0, 5409.0, 5534.0, 5691.0, 5259.0, 5459.0, 5568.0, 5312.0, 5317.0, 5572.0, 5414.0, 5493.0, 5614.0, 5575.0, 5497.0, 5495.0, 5601.0, 5599.0, 5515.0, 5539.0, 5252.0, 5556.0, 5544.0, 5558.0, 5293.0, 5294.0, 5521.0, 5480.0, 5514.0, 5350.0, 5469.0, 5404.0, 5484.0, 5708.0, 5499.0, 5443.0, 5716.0, 5713.0, 5595.0, 5657.0, 5511.0, 5436.0, 5491.0, 5308.0, 5360.0, 5314.0, 5466.0, 5401.0, 5291.0, 5285.0, 5684.0, 5573.0, 5628.0, 5496.0, 5410.0, 5362.0, 5445.0, 5441.0, 5327.0, 5676.0, 5625.0, 5429.0, 5576.0, 5619.0, 5300.0, 5345.0, 5663.0, 5337.0, 5426.0, 5447.0, 5373.0, 5531.0, 5666.0, 5724.0, 5664.0, 5543.0, 5661.0, 5717.0, 5618.0, 5367.0, 5634.0, 5304.0, 5519.0, 5719.0, 5680.0, 5363.0, 5597.0, 5679.0, 5391.0, 5274.0, 5579.0, 5646.0, 5485.0, 5638.0, 5689.0, 5359.0, 5339.0, 5608.0, 5319.0, 5473.0 (number of hits: 16)
8	5290	9	1	333	1	5509.0, 5669.0, 5333.0, 5598.0, 5723.0, 5654.0, 5299.0, 5418.0, 5547.0, 5446.0, 5355.0, 5338.0, 5373.0, 5286.0, 5550.0, 5272.0, 5314.0, 5454.0, 5692.0, 5623.0, 5482.0, 5308.0, 5254.0, 5660.0, 5315.0, 5481.0, 5430.0, 5428.0, 5652.0, 5485.0, 5711.0, 5311.0, 5444.0, 5515.0, 5316.0, 5347.0, 5381.0, 5596.0, 5384.0, 5518.0, 5646.0, 5502.0, 5613.0, 5325.0, 5473.0, 5410.0, 5681.0, 5345.0, 5704.0, 5480.0, 5388.0, 5413.0, 5544.0, 5404.0, 5422.0, 5696.0, 5468.0, 5520.0, 5533.0, 5341.0, 5258.0, 5252.0, 5326.0, 5656.0, 5277.0, 5693.0, 5530.0, 5356.0, 5618.0, 5523.0, 5714.0, 5590.0, 5627.0, 5455.0, 5549.0, 5320.0, 5537.0, 5676.0, 5451.0, 5407.0, 5715.0, 5620.0, 5532.0, 5346.0, 5375.0, 5393.0, 5531.0, 5706.0, 5431.0, 5419.0, 5323.0, 5425.0, 5476.0, 5328.0, 5584.0, 5562.0, 5626.0, 5529.0, 5703.0, 5506.0 (number of hits: 17)
9	5290	9	1	333	1	5429.0, 5493.0, 5416.0, 5333.0, 5624.0, 5268.0, 5498.0, 5595.0, 5286.0, 5323.0, 5582.0, 5545.0, 5580.0, 5428.0, 5348.0,

						5721.0, 5361.0, 5564.0, 5633.0, 5271.0, 5288.0, 5487.0, 5384.0, 5560.0, 5644.0, 5486.0, 5586.0, 5332.0, 5402.0, 5346.0, 5700.0, 5263.0, 5673.0, 5598.0, 5515.0, 5307.0, 5717.0, 5628.0, 5327.0, 5716.0, 5439.0, 5255.0, 5641.0, 5561.0, 5379.0, 5404.0, 5360.0, 5529.0, 5464.0, 5518.0, 5261.0, 5532.0, 5571.0, 5650.0, 5592.0, 5376.0, 5660.0, 5647.0, 5331.0, 5585.0, 5654.0, 5597.0, 5702.0, 5567.0, 5616.0, 5289.0, 5274.0, 5657.0, 5602.0, 5300.0, 5340.0, 5405.0, 5484.0, 5696.0, 5527.0, 5649.0, 5463.0, 5330.0, 5394.0, 5642.0, 5611.0, 5554.0, 5425.0, 5635.0, 5659.0, 5699.0, 5377.0, 5662.0, 5385.0, 5403.0, 5319.0, 5381.0, 5626.0, 5294.0, 5418.0, 5566.0, 5336.0, 5537.0, 5516.0, 5694.0 (number of hits: 15)
10	5290	9	1	333	1	5719.0, 5696.0, 5347.0, 5720.0, 5250.0, 5416.0, 5667.0, 5630.0, 5290.0, 5509.0, 5606.0, 5672.0, 5415.0, 5336.0, 5278.0, 5676.0, 5327.0, 5520.0, 5529.0, 5641.0, 5671.0, 5422.0, 5365.0, 5516.0, 5402.0, 5311.0, 5678.0, 5624.0, 5252.0, 5702.0, 5556.0, 5470.0, 5388.0, 5546.0, 5352.0, 5420.0, 5511.0, 5581.0, 5383.0, 5665.0, 5570.0, 5683.0, 5464.0, 5609.0, 5526.0, 5421.0, 5362.0, 5304.0, 5542.0, 5449.0, 5291.0, 5268.0, 5663.0, 5432.0, 5488.0, 5563.0, 5260.0, 5723.0, 5276.0, 5578.0, 5289.0, 5707.0, 5706.0, 5286.0, 5481.0, 5646.0, 5442.0, 5325.0, 5361.0, 5638.0, 5437.0, 5588.0, 5687.0, 5329.0, 5483.0, 5705.0, 5658.0, 5418.0, 5714.0, 5262.0, 5306.0, 5355.0, 5504.0, 5614.0, 5522.0, 5668.0, 5372.0, 5708.0, 5661.0, 5537.0, 5599.0, 5390.0, 5364.0, 5617.0, 5321.0, 5498.0, 5300.0, 5307.0, 5389.0, 5367.0 (number of hits: 20)
11	5290	9	1	333	1	5589.0, 5516.0, 5432.0, 5309.0, 5367.0, 5299.0, 5667.0, 5420.0, 5397.0, 5265.0, 5262.0, 5445.0, 5646.0, 5607.0, 5573.0, 5656.0, 5704.0, 5448.0, 5465.0, 5391.0, 5563.0, 5498.0, 5427.0, 5254.0, 5712.0, 5662.0, 5444.0, 5630.0, 5399.0, 5703.0, 5443.0, 5554.0, 5640.0, 5612.0, 5327.0, 5534.0, 5353.0, 5669.0, 5324.0, 5628.0, 5690.0, 5617.0, 5559.0, 5645.0, 5295.0, 5706.0, 5422.0, 5392.0, 5490.0, 5477.0, 5468.0, 5307.0, 5680.0, 5363.0, 5717.0, 5489.0, 5388.0, 5473.0, 5469.0, 5281.0, 5345.0, 5320.0, 5722.0, 5698.0, 5608.0, 5467.0, 5328.0, 5666.0, 5702.0, 5700.0, 5529.0, 5260.0, 5451.0, 5413.0, 5333.0, 5594.0, 5419.0, 5528.0, 5696.0, 5535.0, 5303.0, 5401.0, 5300.0, 5404.0, 5453.0, 5716.0, 5302.0, 5424.0, 5458.0, 5509.0, 5408.0, 5552.0, 5431.0, 5290.0, 5403.0, 5270.0, 5544.0, 5457.0, 5273.0, 5364.0

						(number of hits: 19)
12	5290	9	1	333	1	5678.0, 5684.0, 5456.0, 5414.0, 5669.0, 5441.0, 5434.0, 5608.0, 5371.0, 5647.0, 5493.0, 5564.0, 5634.0, 5360.0, 5276.0, 5581.0, 5426.0, 5719.0, 5435.0, 5292.0, 5501.0, 5577.0, 5443.0, 5707.0, 5339.0, 5601.0, 5588.0, 5320.0, 5438.0, 5623.0, 5359.0, 5275.0, 5510.0, 5689.0, 5568.0, 5262.0, 5537.0, 5422.0, 5710.0, 5589.0, 5553.0, 5308.0, 5706.0, 5253.0, 5619.0, 5679.0, 5298.0, 5372.0, 5291.0, 5481.0, 5662.0, 5328.0, 5431.0, 5442.0, 5289.0, 5617.0, 5318.0, 5613.0, 5279.0, 5716.0, 5399.0, 5575.0, 5650.0, 5590.0, 5587.0, 5643.0, 5504.0, 5370.0, 5439.0, 5606.0, 5576.0, 5541.0, 5420.0, 5514.0, 5460.0, 5496.0, 5433.0, 5659.0, 5711.0, 5557.0, 5301.0, 5462.0, 5542.0, 5635.0, 5676.0, 5718.0, 5486.0, 5427.0, 5277.0, 5444.0, 5556.0, 5269.0, 5598.0, 5342.0, 5448.0, 5563.0, 5649.0, 5524.0, 5407.0, 5708.0 (number of hits: 16)
13	5290	9	1	333	1	5286.0, 5560.0, 5574.0, 5529.0, 5380.0, 5306.0, 5496.0, 5341.0, 5482.0, 5578.0, 5652.0, 5439.0, 5468.0, 5327.0, 5300.0, 5488.0, 5501.0, 5453.0, 5294.0, 5618.0, 5575.0, 5474.0, 5390.0, 5382.0, 5722.0, 5385.0, 5253.0, 5296.0, 5669.0, 5635.0, 5401.0, 5303.0, 5410.0, 5388.0, 5598.0, 5367.0, 5698.0, 5692.0, 5563.0, 5365.0, 5274.0, 5610.0, 5568.0, 5348.0, 5331.0, 5477.0, 5425.0, 5506.0, 5532.0, 5527.0, 5592.0, 5404.0, 5704.0, 5710.0, 5607.0, 5512.0, 5531.0, 5504.0, 5355.0, 5455.0, 5643.0, 5651.0, 5321.0, 5476.0, 5687.0, 5352.0, 5557.0, 5393.0, 5594.0, 5267.0, 5305.0, 5408.0, 5546.0, 5277.0, 5657.0, 5350.0, 5720.0, 5262.0, 5420.0, 5518.0, 5301.0, 5581.0, 5403.0, 5565.0, 5264.0, 5405.0, 5608.0, 5534.0, 5336.0, 5349.0, 5340.0, 5585.0, 5593.0, 5712.0, 5613.0, 5604.0, 5661.0, 5659.0, 5275.0, 5668.0 (number of hits: 17)
14	5290	9	1	333	1	5311.0, 5393.0, 5412.0, 5554.0, 5376.0, 5270.0, 5282.0, 5331.0, 5395.0, 5269.0, 5260.0, 5350.0, 5647.0, 5465.0, 5418.0, 5519.0, 5654.0, 5704.0, 5539.0, 5664.0, 5696.0, 5563.0, 5493.0, 5637.0, 5295.0, 5405.0, 5506.0, 5272.0, 5490.0, 5422.0, 5689.0, 5676.0, 5467.0, 5712.0, 5700.0, 5483.0, 5341.0, 5420.0, 5702.0, 5629.0, 5527.0, 5521.0, 5374.0, 5513.0, 5691.0, 5567.0, 5547.0, 5409.0, 5446.0, 5716.0, 5588.0, 5277.0, 5450.0, 5569.0, 5614.0, 5290.0, 5408.0, 5445.0, 5386.0, 5551.0, 5383.0, 5479.0, 5288.0, 5390.0, 5261.0, 5427.0, 5441.0, 5300.0, 5663.0, 5381.0, 5356.0, 5710.0, 5406.0, 5443.0, 5692.0, 5433.0, 5591.0, 5462.0, 5671.0, 5488.0,

						5565.0, 5309.0, 5397.0, 5385.0, 5617.0, 5621.0, 5598.0, 5403.0, 5281.0, 5532.0, 5531.0, 5444.0, 5461.0, 5602.0, 5600.0, 5659.0, 5286.0, 5630.0, 5314.0, 5434.0 (number of hits: 16)
15	5290	9	1	333	1	5278.0, 5645.0, 5555.0, 5281.0, 5288.0, 5644.0, 5522.0, 5386.0, 5306.0, 5678.0, 5545.0, 5535.0, 5631.0, 5699.0, 5368.0, 5658.0, 5301.0, 5270.0, 5539.0, 5598.0, 5390.0, 5459.0, 5499.0, 5399.0, 5576.0, 5593.0, 5438.0, 5636.0, 5344.0, 5518.0, 5514.0, 5328.0, 5303.0, 5666.0, 5436.0, 5540.0, 5538.0, 5713.0, 5254.0, 5536.0, 5691.0, 5273.0, 5552.0, 5494.0, 5617.0, 5401.0, 5541.0, 5261.0, 5267.0, 5264.0, 5516.0, 5335.0, 5277.0, 5520.0, 5682.0, 5400.0, 5635.0, 5326.0, 5711.0, 5647.0, 5492.0, 5363.0, 5592.0, 5347.0, 5478.0, 5415.0, 5309.0, 5445.0, 5587.0, 5464.0, 5294.0, 5668.0, 5553.0, 5506.0, 5476.0, 5256.0, 5447.0, 5515.0, 5633.0, 5653.0, 5567.0, 5655.0, 5620.0, 5419.0, 5252.0, 5284.0, 5619.0, 5485.0, 5679.0, 5346.0, 5381.0, 5319.0, 5442.0, 5372.0, 5440.0, 5339.0, 5466.0, 5511.0, 5611.0, 5259.0 (number of hits: 22)
16	5290	9	1	333	1	5369.0, 5336.0, 5280.0, 5250.0, 5318.0, 5512.0, 5666.0, 5606.0, 5648.0, 5304.0, 5548.0, 5261.0, 5392.0, 5271.0, 5668.0, 5619.0, 5565.0, 5424.0, 5579.0, 5574.0, 5696.0, 5595.0, 5396.0, 5716.0, 5311.0, 5401.0, 5470.0, 5525.0, 5723.0, 5654.0, 5353.0, 5656.0, 5457.0, 5410.0, 5445.0, 5661.0, 5444.0, 5508.0, 5621.0, 5301.0, 5622.0, 5375.0, 5665.0, 5582.0, 5456.0, 5540.0, 5355.0, 5647.0, 5363.0, 5609.0, 5513.0, 5328.0, 5452.0, 5406.0, 5255.0, 5504.0, 5627.0, 5400.0, 5352.0, 5596.0, 5655.0, 5697.0, 5412.0, 5433.0, 5277.0, 5679.0, 5559.0, 5625.0, 5653.0, 5561.0, 5372.0, 5483.0, 5393.0, 5641.0, 5321.0, 5486.0, 5260.0, 5701.0, 5520.0, 5455.0, 5383.0, 5480.0, 5554.0, 5294.0, 5667.0, 5629.0, 5617.0, 5482.0, 5472.0, 5340.0, 5465.0, 5678.0, 5284.0, 5473.0, 5708.0, 5585.0, 5659.0, 5685.0, 5722.0, 5575.0 (number of hits: 15)
17	5290	9	1	333	1	5559.0, 5692.0, 5435.0, 5487.0, 5505.0, 5514.0, 5424.0, 5429.0, 5296.0, 5373.0, 5292.0, 5664.0, 5519.0, 5575.0, 5428.0, 5551.0, 5425.0, 5611.0, 5363.0, 5544.0, 5461.0, 5577.0, 5288.0, 5362.0, 5550.0, 5468.0, 5494.0, 5489.0, 5284.0, 5480.0, 5392.0, 5407.0, 5486.0, 5452.0, 5496.0, 5423.0, 5714.0, 5330.0, 5613.0, 5581.0, 5616.0, 5434.0, 5465.0, 5456.0, 5716.0, 5495.0, 5684.0, 5393.0, 5343.0, 5432.0, 5291.0, 5541.0, 5507.0, 5625.0, 5591.0, 5333.0, 5594.0, 5698.0, 5634.0, 5525.0,

						5475.0, 5693.0, 5355.0, 5311.0, 5536.0, 5446.0, 5326.0, 5582.0, 5642.0, 5380.0, 5419.0, 5337.0, 5276.0, 5277.0, 5256.0, 5440.0, 5298.0, 5595.0, 5703.0, 5535.0, 5666.0, 5460.0, 5353.0, 5374.0, 5306.0, 5580.0, 5313.0, 5617.0, 5318.0, 5638.0, 5667.0, 5603.0, 5579.0, 5344.0, 5531.0, 5632.0, 5599.0, 5338.0, 5386.0, 5600.0 (number of hits: 14)
18	5290	9	1	333	1	5421.0, 5596.0, 5620.0, 5575.0, 5338.0, 5589.0, 5411.0, 5538.0, 5583.0, 5568.0, 5686.0, 5308.0, 5328.0, 5438.0, 5679.0, 5616.0, 5463.0, 5547.0, 5393.0, 5599.0, 5330.0, 5625.0, 5525.0, 5256.0, 5566.0, 5381.0, 5588.0, 5260.0, 5441.0, 5365.0, 5281.0, 5554.0, 5684.0, 5440.0, 5271.0, 5345.0, 5456.0, 5505.0, 5296.0, 5643.0, 5706.0, 5305.0, 5357.0, 5649.0, 5581.0, 5402.0, 5349.0, 5611.0, 5429.0, 5487.0, 5521.0, 5570.0, 5329.0, 5261.0, 5608.0, 5333.0, 5714.0, 5379.0, 5374.0, 5606.0, 5537.0, 5579.0, 5478.0, 5360.0, 5569.0, 5425.0, 5406.0, 5450.0, 5673.0, 5532.0, 5395.0, 5501.0, 5675.0, 5634.0, 5690.0, 5403.0, 5398.0, 5716.0, 5332.0, 5484.0, 5572.0, 5672.0, 5567.0, 5342.0, 5335.0, 5283.0, 5717.0, 5300.0, 5442.0, 5315.0, 5326.0, 5542.0, 5310.0, 5369.0, 5508.0, 5409.0, 5590.0, 5660.0, 5366.0, 5375.0 (number of hits: 15)
19	5290	9	1	333	1	5673.0, 5393.0, 5693.0, 5508.0, 5449.0, 5706.0, 5654.0, 5715.0, 5429.0, 5345.0, 5665.0, 5478.0, 5405.0, 5356.0, 5385.0, 5454.0, 5316.0, 5270.0, 5332.0, 5598.0, 5414.0, 5384.0, 5368.0, 5623.0, 5423.0, 5365.0, 5658.0, 5529.0, 5278.0, 5373.0, 5517.0, 5455.0, 5543.0, 5513.0, 5546.0, 5653.0, 5410.0, 5507.0, 5416.0, 5505.0, 5473.0, 5540.0, 5375.0, 5257.0, 5567.0, 5491.0, 5662.0, 5585.0, 5251.0, 5395.0, 5641.0, 5360.0, 5699.0, 5374.0, 5476.0, 5650.0, 5582.0, 5649.0, 5477.0, 5472.0, 5447.0, 5463.0, 5704.0, 5436.0, 5479.0, 5719.0, 5390.0, 5494.0, 5519.0, 5424.0, 5303.0, 5318.0, 5692.0, 5666.0, 5396.0, 5328.0, 5651.0, 5435.0, 5308.0, 5280.0, 5488.0, 5555.0, 5294.0, 5614.0, 5370.0, 5602.0, 5612.0, 5364.0, 5539.0, 5723.0, 5320.0, 5638.0, 5369.0, 5258.0, 5386.0, 5277.0, 5695.0, 5512.0, 5354.0, 5256.0 (number of hits: 15)
20	5290	9	1	333	1	5545.0, 5368.0, 5674.0, 5363.0, 5554.0, 5625.0, 5641.0, 5511.0, 5660.0, 5562.0, 5403.0, 5340.0, 5329.0, 5430.0, 5442.0, 5324.0, 5398.0, 5611.0, 5465.0, 5613.0, 5355.0, 5508.0, 5303.0, 5461.0, 5418.0, 5282.0, 5495.0, 5487.0, 5662.0, 5285.0, 5350.0, 5542.0, 5453.0, 5647.0, 5548.0, 5565.0, 5618.0, 5261.0, 5464.0, 5480.0,

						5475.0, 5607.0, 5651.0, 5652.0, 5283.0, 5434.0, 5394.0, 5644.0, 5706.0, 5583.0, 5720.0, 5341.0, 5572.0, 5552.0, 5338.0, 5535.0, 5438.0, 5488.0, 5627.0, 5699.0, 5385.0, 5533.0, 5623.0, 5412.0, 5330.0, 5317.0, 5581.0, 5353.0, 5643.0, 5358.0, 5352.0, 5466.0, 5499.0, 5642.0, 5685.0, 5624.0, 5525.0, 5416.0, 5260.0, 5646.0, 5361.0, 5256.0, 5309.0, 5252.0, 5605.0, 5383.0, 5670.0, 5697.0, 5411.0, 5676.0, 5279.0, 5531.0, 5493.0, 5668.0, 5711.0, 5645.0, 5323.0, 5579.0, 5483.0, 5262.0 (number of hits: 15)
21	5290	9	1	333	1	5434.0, 5617.0, 5328.0, 5722.0, 5446.0, 5552.0, 5365.0, 5523.0, 5634.0, 5453.0, 5661.0, 5381.0, 5529.0, 5571.0, 5447.0, 5647.0, 5339.0, 5491.0, 5721.0, 5671.0, 5494.0, 5394.0, 5596.0, 5541.0, 5291.0, 5313.0, 5269.0, 5253.0, 5452.0, 5658.0, 5693.0, 5303.0, 5306.0, 5275.0, 5516.0, 5413.0, 5568.0, 5407.0, 5274.0, 5645.0, 5496.0, 5565.0, 5470.0, 5615.0, 5690.0, 5682.0, 5375.0, 5309.0, 5644.0, 5587.0, 5316.0, 5368.0, 5528.0, 5348.0, 5520.0, 5500.0, 5620.0, 5254.0, 5322.0, 5471.0, 5679.0, 5383.0, 5566.0, 5481.0, 5569.0, 5551.0, 5548.0, 5302.0, 5703.0, 5370.0, 5509.0, 5519.0, 5544.0, 5410.0, 5676.0, 5288.0, 5420.0, 5582.0, 5692.0, 5487.0, 5296.0, 5324.0, 5479.0, 5458.0, 5564.0, 5627.0, 5522.0, 5505.0, 5283.0, 5390.0, 5490.0, 5473.0, 5346.0, 5338.0, 5525.0, 5662.0, 5293.0, 5392.0, 5517.0, 5636.0 (number of hits: 19)
22	5290	9	1	333	1	5658.0, 5578.0, 5450.0, 5351.0, 5290.0, 5687.0, 5266.0, 5421.0, 5350.0, 5415.0, 5522.0, 5645.0, 5669.0, 5506.0, 5694.0, 5490.0, 5286.0, 5644.0, 5630.0, 5252.0, 5520.0, 5620.0, 5464.0, 5548.0, 5387.0, 5672.0, 5315.0, 5656.0, 5670.0, 5647.0, 5624.0, 5314.0, 5561.0, 5304.0, 5721.0, 5377.0, 5582.0, 5626.0, 5260.0, 5411.0, 5570.0, 5414.0, 5352.0, 5371.0, 5706.0, 5702.0, 5368.0, 5480.0, 5326.0, 5485.0, 5384.0, 5532.0, 5585.0, 5401.0, 5430.0, 5316.0, 5263.0, 5682.0, 5625.0, 5483.0, 5404.0, 5525.0, 5441.0, 5279.0, 5392.0, 5465.0, 5442.0, 5511.0, 5402.0, 5668.0, 5407.0, 5633.0, 5337.0, 5568.0, 5530.0, 5454.0, 5515.0, 5503.0, 5264.0, 5331.0, 5388.0, 5677.0, 5662.0, 5649.0, 5569.0, 5659.0, 5549.0, 5591.0, 5439.0, 5634.0, 5447.0, 5425.0, 5469.0, 5262.0, 5339.0, 5600.0, 5313.0, 5661.0, 5271.0, 5364.0 (number of hits: 16)
23	5290	9	1	333	1	5439.0, 5649.0, 5573.0, 5467.0, 5626.0, 5287.0, 5426.0, 5577.0, 5550.0, 5450.0, 5446.0, 5427.0, 5434.0, 5624.0, 5531.0, 5487.0, 5684.0, 5394.0, 5461.0, 5292.0,

						5320.0, 5665.0, 5630.0, 5701.0, 5410.0, 5462.0, 5347.0, 5384.0, 5717.0, 5654.0, 5515.0, 5275.0, 5588.0, 5525.0, 5505.0, 5310.0, 5682.0, 5572.0, 5459.0, 5395.0, 5370.0, 5443.0, 5721.0, 5600.0, 5338.0, 5313.0, 5442.0, 5374.0, 5542.0, 5564.0, 5663.0, 5664.0, 5694.0, 5333.0, 5455.0, 5364.0, 5279.0, 5307.0, 5308.0, 5619.0, 5417.0, 5305.0, 5324.0, 5628.0, 5480.0, 5629.0, 5621.0, 5538.0, 5699.0, 5607.0, 5569.0, 5632.0, 5513.0, 5650.0, 5536.0, 5354.0, 5393.0, 5641.0, 5334.0, 5625.0, 5356.0, 5502.0, 5593.0, 5445.0, 5421.0, 5372.0, 5647.0, 5583.0, 5402.0, 5436.0, 5433.0, 5293.0, 5679.0, 5412.0, 5570.0, 5414.0, 5369.0, 5638.0, 5673.0, 5315.0 (number of hits: 13)
24	5290	9	1	333	1	5451.0, 5560.0, 5511.0, 5374.0, 5623.0, 5642.0, 5682.0, 5616.0, 5562.0, 5663.0, 5304.0, 5517.0, 5671.0, 5380.0, 5534.0, 5512.0, 5275.0, 5692.0, 5300.0, 5578.0, 5544.0, 5717.0, 5654.0, 5637.0, 5416.0, 5450.0, 5676.0, 5602.0, 5719.0, 5289.0, 5622.0, 5429.0, 5620.0, 5506.0, 5265.0, 5669.0, 5401.0, 5312.0, 5649.0, 5673.0, 5526.0, 5599.0, 5468.0, 5428.0, 5535.0, 5568.0, 5721.0, 5270.0, 5251.0, 5694.0, 5385.0, 5252.0, 5297.0, 5404.0, 5657.0, 5697.0, 5352.0, 5322.0, 5513.0, 5632.0, 5268.0, 5588.0, 5525.0, 5435.0, 5379.0, 5390.0, 5575.0, 5421.0, 5423.0, 5569.0, 5520.0, 5539.0, 5253.0, 5659.0, 5369.0, 5286.0, 5487.0, 5254.0, 5293.0, 5387.0, 5613.0, 5308.0, 5650.0, 5508.0, 5329.0, 5545.0, 5519.0, 5584.0, 5325.0, 5320.0, 5651.0, 5634.0, 5277.0, 5691.0, 5437.0, 5271.0, 5522.0, 5473.0, 5366.0, 5596.0 (number of hits: 22)
25	5290	9	1	333	1	5690.0, 5473.0, 5481.0, 5332.0, 5493.0, 5354.0, 5621.0, 5574.0, 5582.0, 5643.0, 5671.0, 5397.0, 5390.0, 5413.0, 5503.0, 5658.0, 5418.0, 5251.0, 5455.0, 5677.0, 5388.0, 5592.0, 5453.0, 5638.0, 5368.0, 5404.0, 5708.0, 5320.0, 5724.0, 5597.0, 5678.0, 5668.0, 5438.0, 5701.0, 5469.0, 5287.0, 5317.0, 5655.0, 5687.0, 5613.0, 5639.0, 5309.0, 5495.0, 5703.0, 5349.0, 5608.0, 5590.0, 5330.0, 5275.0, 5436.0, 5533.0, 5505.0, 5342.0, 5553.0, 5345.0, 5713.0, 5408.0, 5380.0, 5646.0, 5640.0, 5614.0, 5531.0, 5486.0, 5417.0, 5307.0, 5720.0, 5411.0, 5326.0, 5523.0, 5543.0, 5506.0, 5382.0, 5303.0, 5551.0, 5532.0, 5353.0, 5528.0, 5279.0, 5331.0, 5318.0, 5634.0, 5599.0, 5577.0, 5573.0, 5513.0, 5653.0, 5661.0, 5688.0, 5619.0, 5268.0, 5259.0, 5584.0, 5260.0, 5628.0, 5518.0, 5256.0, 5424.0, 5285.0, 5588.0, 5539.0 (number of hits: 16)

26	5290	9	1	333	1	5336.0, 5439.0, 5444.0, 5719.0, 5651.0, 5634.0, 5512.0, 5425.0, 5499.0, 5589.0, 5385.0, 5625.0, 5281.0, 5639.0, 5461.0, 5637.0, 5378.0, 5564.0, 5508.0, 5549.0, 5411.0, 5644.0, 5386.0, 5375.0, 5695.0, 5520.0, 5507.0, 5556.0, 5640.0, 5353.0, 5366.0, 5646.0, 5265.0, 5602.0, 5346.0, 5576.0, 5588.0, 5525.0, 5463.0, 5302.0, 5638.0, 5316.0, 5498.0, 5415.0, 5648.0, 5441.0, 5626.0, 5451.0, 5557.0, 5361.0, 5254.0, 5372.0, 5720.0, 5676.0, 5641.0, 5694.0, 5340.0, 5721.0, 5632.0, 5323.0, 5277.0, 5273.0, 5534.0, 5517.0, 5437.0, 5363.0, 5596.0, 5722.0, 5456.0, 5550.0, 5339.0, 5575.0, 5428.0, 5563.0, 5373.0, 5251.0, 5430.0, 5271.0, 5300.0, 5709.0, 5433.0, 5394.0, 5560.0, 5685.0, 5570.0, 5493.0, 5528.0, 5390.0, 5388.0, 5628.0, 5285.0, 5623.0, 5457.0, 5455.0, 5699.0, 5305.0, 5614.0, 5667.0, 5262.0, 5636.0 (number of hits: 14)
27	5290	9	1	333	1	5325.0, 5719.0, 5723.0, 5713.0, 5347.0, 5357.0, 5656.0, 5480.0, 5688.0, 5373.0, 5392.0, 5511.0, 5570.0, 5596.0, 5712.0, 5589.0, 5675.0, 5483.0, 5547.0, 5456.0, 5678.0, 5384.0, 5581.0, 5338.0, 5275.0, 5519.0, 5413.0, 5653.0, 5608.0, 5539.0, 5579.0, 5576.0, 5612.0, 5607.0, 5532.0, 5342.0, 5421.0, 5344.0, 5402.0, 5497.0, 5522.0, 5465.0, 5423.0, 5686.0, 5358.0, 5299.0, 5359.0, 5504.0, 5424.0, 5251.0, 5345.0, 5601.0, 5611.0, 5682.0, 5499.0, 5702.0, 5585.0, 5329.0, 5310.0, 5273.0, 5381.0, 5452.0, 5471.0, 5269.0, 5404.0, 5305.0, 5491.0, 5700.0, 5304.0, 5364.0, 5409.0, 5513.0, 5652.0, 5597.0, 5629.0, 5668.0, 5448.0, 5282.0, 5446.0, 5541.0, 5314.0, 5301.0, 5569.0, 5670.0, 5506.0, 5628.0, 5535.0, 5300.0, 5386.0, 5549.0, 5441.0, 5717.0, 5622.0, 5453.0, 5401.0, 5657.0, 5477.0, 5710.0, 5458.0, 5303.0 (number of hits: 15)
28	5290	9	1	333	1	5683.0, 5621.0, 5653.0, 5533.0, 5522.0, 5308.0, 5690.0, 5651.0, 5449.0, 5283.0, 5535.0, 5495.0, 5606.0, 5307.0, 5658.0, 5486.0, 5708.0, 5679.0, 5554.0, 5368.0, 5272.0, 5631.0, 5294.0, 5664.0, 5712.0, 5370.0, 5527.0, 5710.0, 5488.0, 5310.0, 5598.0, 5420.0, 5326.0, 5255.0, 5542.0, 5265.0, 5438.0, 5561.0, 5430.0, 5344.0, 5529.0, 5366.0, 5450.0, 5719.0, 5410.0, 5427.0, 5721.0, 5484.0, 5360.0, 5579.0, 5477.0, 5514.0, 5466.0, 5648.0, 5549.0, 5371.0, 5453.0, 5592.0, 5512.0, 5324.0, 5465.0, 5506.0, 5687.0, 5278.0, 5419.0, 5309.0, 5448.0, 5436.0, 5636.0, 5581.0, 5387.0, 5624.0, 5279.0, 5519.0, 5367.0, 5359.0, 5369.0, 5385.0, 5568.0, 5287.0, 5697.0, 5397.0, 5469.0, 5551.0, 5608.0,

						5605.0, 5511.0, 5291.0, 5322.0, 5296.0, 5503.0, 5256.0, 5611.0, 5575.0, 5412.0, 5354.0, 5491.0, 5441.0, 5424.0, 5635.0 (number of hits: 18)
29	5290	9	1	333	1	5327.0, 5539.0, 5373.0, 5651.0, 5467.0, 5540.0, 5702.0, 5491.0, 5567.0, 5587.0, 5639.0, 5476.0, 5314.0, 5496.0, 5307.0, 5660.0, 5579.0, 5590.0, 5610.0, 5343.0, 5568.0, 5420.0, 5659.0, 5593.0, 5680.0, 5697.0, 5536.0, 5693.0, 5666.0, 5690.0, 5412.0, 5300.0, 5269.0, 5260.0, 5361.0, 5325.0, 5267.0, 5392.0, 5482.0, 5285.0, 5640.0, 5483.0, 5393.0, 5377.0, 5696.0, 5647.0, 5606.0, 5654.0, 5355.0, 5548.0, 5436.0, 5557.0, 5560.0, 5371.0, 5281.0, 5442.0, 5308.0, 5342.0, 5261.0, 5637.0, 5410.0, 5683.0, 5530.0, 5635.0, 5406.0, 5354.0, 5440.0, 5321.0, 5630.0, 5301.0, 5349.0, 5443.0, 5633.0, 5646.0, 5575.0, 5699.0, 5313.0, 5444.0, 5616.0, 5599.0, 5364.0, 5418.0, 5362.0, 5527.0, 5655.0, 5389.0, 5532.0, 5547.0, 5328.0, 5711.0, 5299.0, 5662.0, 5323.0, 5556.0, 5372.0, 5379.0, 5311.0, 5403.0, 5715.0, 5426.0 (number of hits: 19)
30	5290	9	1	333	1	5267.0, 5269.0, 5327.0, 5299.0, 5361.0, 5280.0, 5613.0, 5383.0, 5620.0, 5320.0, 5526.0, 5251.0, 5565.0, 5435.0, 5530.0, 5260.0, 5661.0, 5659.0, 5570.0, 5664.0, 5612.0, 5505.0, 5282.0, 5527.0, 5342.0, 5563.0, 5314.0, 5500.0, 5699.0, 5551.0, 5692.0, 5552.0, 5336.0, 5622.0, 5580.0, 5680.0, 5266.0, 5567.0, 5360.0, 5673.0, 5536.0, 5346.0, 5293.0, 5329.0, 5421.0, 5409.0, 5689.0, 5562.0, 5390.0, 5548.0, 5704.0, 5430.0, 5528.0, 5537.0, 5652.0, 5380.0, 5461.0, 5449.0, 5604.0, 5443.0, 5337.0, 5630.0, 5637.0, 5512.0, 5289.0, 5339.0, 5400.0, 5517.0, 5607.0, 5343.0, 5338.0, 5340.0, 5489.0, 5585.0, 5549.0, 5272.0, 5306.0, 5499.0, 5258.0, 5498.0, 5470.0, 5323.0, 5445.0, 5288.0, 5466.0, 5497.0, 5356.0, 5493.0, 5384.0, 5432.0, 5632.0, 5662.0, 5651.0, 5330.0, 5572.0, 5483.0, 5559.0, 5465.0, 5504.0, 5279.0 (number of hits: 20)

5500 MHz, 20 MHz Bandwidth

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1A/1B	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:

5500 MHz, 20 MHz Bandwidth

Table-1A/1B Radar Type 1A/1B Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5500	99	1	538	1
2	5500	102	1	518	1
3	5500	59	1	898	1
4	5500	89	1	598	1
5	5500	63	1	838	1
6	5500	81	1	658	1
7	5500	83	1	638	1
8	5500	68	1	778	1
9	5500	62	1	858	1
10	5500	86	1	618	1
11	5500	70	1	758	1
12	5500	76	1	698	1
13	5500	57	1	938	1
14	5500	74	1	718	1
15	5500	72	1	738	1
16	5500	19	1	2838	1
17	5500	34	1	1591	1
18	5500	21	1	2612	1
19	5500	34	1	1563	1
20	5500	24	1	2248	1
21	5500	47	1	1134	1
22	5500	46	1	1160	1
23	5500	20	1	2691	1
24	5500	23	1	2369	1
25	5500	24	1	2201	1
26	5500	32	1	1681	1
27	5500	29	1	1862	1
28	5500	82	1	651	1
29	5500	57	1	932	1
30	5500	55	1	975	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	5500	28	2.8	183	1
2	5500	28	2.4	183	1
3	5500	29	4.4	185	1
4	5500	25	4.4	191	1
5	5500	28	1	225	1
6	5500	29	4.1	187	1
7	5500	29	3.5	157	1
8	5500	28	4.3	197	1
9	5500	25	4.7	171	1
10	5500	29	3.1	184	1
11	5500	29	2.6	224	1
12	5500	27	2.5	196	1
13	5500	23	4.9	203	1
14	5500	24	4.2	152	1
15	5500	24	2.4	156	1
16	5500	26	1.6	221	1
17	5500	26	2.9	178	1
18	5500	25	4.8	186	1
19	5500	28	2.8	169	1
20	5500	25	4.3	213	1
21	5500	29	2.4	215	1
22	5500	27	2.5	202	1
23	5500	24	2.9	182	1
24	5500	28	4.4	221	1
25	5500	29	1.2	152	1
26	5500	27	2.3	227	1
27	5500	24	3.6	213	1
28	5500	29	1	229	1
29	5500	26	2.5	172	1
30	5500	27	2	204	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	5500	17	6.6	399	1
2	5500	18	6.6	318	1
3	5500	16	7	473	1
4	5500	16	9.2	373	1
5	5500	16	7.1	362	1
6	5500	16	8.4	403	1
7	5500	16	8.1	490	1
8	5500	17	6.6	238	1
9	5500	17	7.6	217	1
10	5500	18	8	299	1
11	5500	16	9.4	433	1
12	5500	16	7.8	495	1
13	5500	18	8.5	290	1
14	5500	16	7.6	294	1
15	5500	16	9.6	479	1
16	5500	18	8	390	1
17	5500	18	9.5	220	1
18	5500	16	8.1	419	1
19	5500	16	8.4	370	1
20	5500	17	7.4	431	1
21	5500	17	9.7	389	1
22	5500	16	8.7	362	1
23	5500	17	8	375	1
24	5500	18	6.2	291	1
25	5500	16	8.8	434	1
26	5500	18	7.5	258	1
27	5500	18	6.9	458	1
28	5500	16	9.6	277	1
29	5500	18	8	375	1
30	5500	18	6.1	305	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	5500	14	12.9	210	1
2	5500	12	14.1	216	1
3	5500	12	13.8	201	1
4	5500	15	17.5	320	1
5	5500	16	15.6	309	1
6	5500	14	13.6	208	1
7	5500	13	17.6	223	1
8	5500	14	17.1	428	1
9	5500	16	13.4	223	1
10	5500	13	14.8	318	1
11	5500	13	17.4	485	1
12	5500	15	19	222	1
13	5500	13	19.1	205	1
14	5500	12	19.7	484	1
15	5500	15	15.1	335	1
16	5500	13	12.3	348	1
17	5500	13	16.3	454	1
18	5500	13	12.3	241	1
19	5500	12	17.1	486	1
20	5500	14	11.7	285	1
21	5500	14	12.4	480	1
22	5500	15	16.9	230	1
23	5500	12	15.8	383	1
24	5500	15	11.9	312	1
25	5500	13	17.8	394	1
26	5500	16	12.3	458	1
27	5500	12	17.8	220	1
28	5500	12	15.4	327	1
29	5500	14	17.2	495	1
30	5500	12	14.8	421	1
Detection Percentage: 100 % (>60%)					

Table-5 Radar Type 5 Statistical Performance

Trial #	Fc (MHz)	Detection (1:yes; 0:no)
1	5500	1
2	5500	1
3	5500	1
4	5500	1
5	5500	1
6	5500	1
7	5500	1
8	5500	1
9	5500	1
10	5500	1
11	5494.0	1
12	5497.2	1
13	5495.6	1
14	5493.2	1
15	5495.2	1
16	5498.0	1
17	5497.2	1
18	5492.8	1
19	5492.8	1
20	5494.4	1
21	5506.4	1
22	5506.0	1
23	5505.2	1
24	5506.4	1
25	5502.4	1
26	5507.2	1
27	5502.8	1
28	5506.4	1
29	5506.8	1
30	5502.4	1
Detection Percentage: 100 % (>80%)		

Bin5 Statistics 1

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	6	93.7			0.992936	1
1	2	6	59.9	1436		1.299806	
2	3	6	57.8	1773	1064	2.945108	
3	2	6	66.5	1197		3.425374	
4	2	6	61.3	1575		5.369463	
5	3	6	81.8	1874	1097	6.292314	
6	3	6	99.3	1302	1607	6.630979	
7	2	6	60.8	1963		7.700323	
8	2	6	73.2	1134		9.786732	
9	2	6	71.5	1024		10.027175	
10	2	6	57.1	1907		11.260465	

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	58.5	1093		0.232106	1
1	2	11	55.7	1129		1.593961	
2	2	11	64.8	1083		1.938804	
3	3	11	50.7	1178	1429	3.185446	
4	3	11	78	1121	1497	3.55969	
5	1	11	64.2			4.783345	
6	2	11	89.3	1147		5.381197	
7	2	11	87.4	1368		6.072052	
8	1	11	85.5			7.603408	
9	2	11	68	1249		7.900428	
10	1	11	61.5			9.374892	
11	2	11	51.3	1631		9.778438	
12	2	11	70.8	1934		10.834928	
13	2	11	89.4	1695		11.151412	

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	10	70.6	1138		0.093308	1
1	3	10	69.7	1195	1443	1.049886	
2	2	10	90.2	1509		1.62315	
3	2	10	77.7	1324		2.515969	
4	3	10	61.7	1628	1960	2.814327	
5	2	10	53.8	1265		3.572367	
6	3	10	79.7	1977	1373	4.065587	
7	1	10	65.6			4.608418	
8	3	10	77.8	1293	1646	5.655625	
9	2	10	93.1	1176		6.045927	
10	2	10	63	1139		6.728194	
11	1	10	80.4			7.101558	
12	2	10	64	1195		8.050835	
13	3	10	79.8	1012	1129	8.754559	
14	2	10	55.9	1699		9.273932	
15	1	10	58.1			9.679502	
16	3	10	96.3	1751	1114	10.516433	
17	2	10	58.4	1857		10.768165	
18	2	10	79.8	1075		11.903958	

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	6	98.1	1625		0.561961	
1	2	6	67.6	1438		0.733659	
2	1	6	50.8			1.265621	
3	1	6	52.7			2.328093	
4	1	6	50.9			2.726465	
5	2	6	53	1453		3.337456	
6	2	6	81.2	1727		3.937583	
7	1	6	95.2			4.450692	
8	3	6	83.4	1539	1698	5.372542	
9	2	6	90.1	1984		5.788916	1
10	3	6	70.5	1535	1521	6.916751	
11	2	6	88	1501		7.429584	
12	3	6	96.2	1368	1882	8.016107	
13	2	6	73	1264		8.463036	
14	2	6	87.3	1501		8.920545	
15	2	6	92	1073		9.873218	
16	2	6	63.3	1089		10.295402	
17	2	6	93.4	1365		10.99612	
18	2	6	73.5	1122		11.879543	

Bin5 Statistics 5

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	6	91.5	1136		0.659491	1
1	3	6	80	1610	1222	1.744792	
2	2	6	73.5	1062		2.468896	
3	2	6	83.7	1127		3.956039	
4	3	6	82.3	1338	1690	4.109323	
5	2	6	82	1692		5.359966	
6	1	6	64.3			6.536855	
7	2	6	85	1288		7.75481	
8	3	6	89.8	1225	1234	8.414143	
9	3	6	91.4	1203	1670	9.09265	
10	2	6	85.3	1473		10.181066	
11	2	6	81.5	1119		11.731045	

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	6	71.9	1759	1548	0.674415	1
1	3	6	70.9	1919	1094	1.903687	
2	2	6	87	1250		2.213511	
3	2	6	71.9	1235		3.700853	
4	1	6	74.1			5.193543	
5	2	6	54.9	1793		5.620602	
6	2	6	93.2	1245		6.99181	
7	1	6	64			7.760743	
8	1	6	56.9			8.768926	
9	2	6	79.8	1171		10.850739	
10	2	6	84.2	1621		11.283726	

Bin5 Statistics 7

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	14	71	1042	1346	0.274093	1
1	1	14	76.8			1.276607	
2	2	14	75.1	1864		1.721243	
3	2	14	53.4	1692		2.928926	
4	2	14	73.5	1946		3.445638	
5	1	14	58.9			4.234852	
6	1	14	51.6			4.628698	
7	2	14	86.1	1170		5.653446	
8	2	14	59.6	1426		6.570693	
9	2	14	64.9	1008		7.28912	
10	3	14	95.8	1769	1140	7.702047	
11	2	14	97.6	1588		8.61862	
12	3	14	86.1	1162	1424	9.638507	
13	1	14	55.4			10.464147	
14	2	14	72	1561		10.989825	
15	1	14	59.7			11.713652	

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	16	74.4			0.248117	
1	2	16	59.9	1053		1.36459	
2	3	16	89	1735	1437	2.152048	
3	1	16	75.4			3.509437	
4	2	16	70.9	1382		3.719921	
5	2	16	80.5	1330		5.438373	
6	2	16	99.6	1107		5.81872	1
7	2	16	62.8	1125		7.101696	
8	2	16	90	1736		7.396747	
9	3	16	86.6	1568	1218	8.938656	
10	1	16	95.3			9.431123	
11	2	16	64.7	1826		10.717319	
12	2	16	60.1	1338		11.771288	

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	6	54.4			0.053995	1
1	2	6	53.3	1126		1.551758	
2	3	6	55.9	1703	1488	2.899207	
3	2	6	93.8	1191		4.244036	
4	2	6	99.6	1024		4.594785	
5	2	6	80.8	1664		6.317619	
6	1	6	67.5			7.347269	
7	2	6	65.7	1174		7.673209	
8	3	6	57.7	1629	1972	8.878306	
9	1	6	87.3			10.561595	
10	2	6	92	1470		11.199692	

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	8	69.6	1161		1.317044	1
1	2	8	82.2	1254		2.008205	
2	2	8	64.5	1609		3.157847	
3	1	8	60.2			5.321623	
4	3	8	64.8	1336	1394	6.708349	
5	1	8	96.8			8.405921	
6	3	8	86.9	1320	1336	9.824661	
7	3	8	97.8	1059	1875	11.46392	

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	10	94.2	1532		0.282832	
1	2	10	55.7	1986		0.999433	
2	2	10	86.8	1593		1.762142	
3	2	10	71.7	1717		2.545823	
4	2	10	80.5	1493		3.011241	
5	1	10	66.2			3.86848	
6	2	10	90.9	1539		4.329713	
7	3	10	84.3	1496	1605	5.554224	
8	2	10	96	1228		5.700878	1
9	2	10	92.9	1621		6.686939	
10	2	10	57.9	1225		7.745209	
11	1	10	59.8			8.349656	
12	1	10	73.8			8.529578	
13	2	10	70.8	1963		9.284945	
14	1	10	70.3			10.125321	
15	3	10	74.3	1320	1140	11.097665	
16	2	10	57.4	1989		11.605075	

Bin5 Statistics 12

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	18	71	1324		0.298521	1
1	2	18	73.9	1951		0.94317	
2	2	18	85.3	1551		1.631557	
3	2	18	51.6	1543		2.204927	
4	3	18	51	1485	1802	3.263643	
5	2	18	60.1	1603		4.134255	
6	2	18	97.5	1020		4.751041	
7	3	18	96.6	1735	1154	5.425908	
8	1	18	91.5			5.868642	
9	1	18	53.7			6.564351	
10	1	18	89.7			7.097554	
11	3	18	74.2	1866	1049	7.988093	
12	2	18	68.9	1941		8.817368	
13	2	18	53.2	1575		9.853704	
14	2	18	82.3	1467		10.356951	
15	2	18	71.5	1393		10.700914	
16	3	18	62.9	1733	1022	11.434931	

Bin5 Statistics 13

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	14	56.8	1440		0.187246	1
1	1	14	96.8			1.128643	
2	3	14	80.6	1879	1840	1.64132	
3	2	14	74.9	1237		2.697984	
4	2	14	94.7	1409		3.580237	
5	2	14	55	1575		4.120098	
6	1	14	70.8			4.824764	
7	2	14	76.9	1313		5.377517	
8	3	14	97.9	1813	1368	6.549229	
9	2	14	86.6	1997		6.937256	
10	3	14	97	1148	1950	8.029226	
11	3	14	92.7	1995	1318	8.638266	
12	2	14	90.8	1128		9.157357	
13	2	14	73.8	1581		9.962078	
14	3	14	91.2	1328	1008	11.066303	
15	3	14	87.5	1922	1133	11.413767	

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	8	82			0.296598	1
1	2	8	54.3	1652		1.154974	
2	2	8	84.7	1190		2.199407	
3	2	8	58.5	1241		2.87137	
4	3	8	56.6	1117	1189	3.802131	
5	2	8	80	1246		4.640685	
6	2	8	58.4	1000		5.199173	
7	2	8	56.8	1685		6.711902	
8	3	8	85.1	1829	1231	7.582813	
9	2	8	58.7	1083		8.044225	
10	2	8	83.8	1178		8.837332	
11	2	8	51.9	1346		9.432898	
12	2	8	65.2	1066		11.06089	
13	3	8	98.8	1660	1796	11.597085	

Bin5 Statistics 15

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	13	63.3			0.143395	
1	3	13	93.3	1929	1364	0.820699	
2	2	13	82.8	1745		1.788151	
3	3	13	95.2	1013	1422	2.874183	
4	3	13	86	1122	1078	3.420766	
5	1	13	72.7			4.622565	
6	2	13	65.3	1001		4.90937	
7	1	13	51.2			5.867224	1
8	3	13	96.3	1807	1835	7.071878	
9	2	13	73.6	1208		7.554133	
10	2	13	94.1	1371		8.39493	
11	2	13	89.4	1225		9.570122	
12	2	13	96.1	1362		10.174361	
13	3	13	97.4	1698	1115	10.678098	
14	3	13	59.9	1300	1680	11.949019	

Bin5 Statistics 16

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	20	74.3	1628		0.114097	
1	3	20	64.8	1364	1740	1.040609	
2	2	20	56.9	1361		2.344964	
3	2	20	85.7	1906		3.183161	
4	1	20	86.3			4.604906	
5	1	20	66.9			5.608471	
6	3	20	53.4	1667	1689	6.695771	1
7	2	20	89.1	1186		7.800397	
8	2	20	56.2	1815		8.592644	
9	2	20	53.7	1196		9.158796	
10	1	20	70.9			10.75954	
11	2	20	81	1567		11.064395	

Bin5 Statistics 17

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	18	95.7	1332	1110	0.741443	0
1	1	18	98.1			1.333551	
2	1	18	91.5			2.268918	
3	1	18	65.7			2.721366	
4	1	18	88.3			3.743245	
5	1	18	71			4.709797	
6	3	18	50.1	1877	1917	5.068806	
7	1	18	69.1			5.670502	
8	2	18	69.6	1082		6.580683	
9	1	18	59.3			7.447844	
10	1	18	91.1			8.370296	
11	3	18	88.3	1637	1798	9.206431	
12	3	18	87.8	1006	1602	9.743856	
13	1	18	64.3			10.835265	
14	2	18	76.5	1877		11.56414	

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	7	73.8	1088	1102	0.406915	1
1	1	7	89.7			1.094969	
2	1	7	60.8			1.235941	
3	1	7	98.5			2.139331	
4	2	7	65.6	1289		2.890376	
5	3	7	85.7	1808	1636	3.367852	
6	2	7	78.5	1849		4.09746	
7	2	7	60.5	1617		4.551632	
8	1	7	71.8			4.980987	
9	1	7	94.3			5.762764	
10	2	7	83.6	1085		6.2491	
11	1	7	79.1			7.184883	
12	3	7	86.9	1677	1421	7.304222	
13	3	7	69.8	1422	1610	7.845478	
14	1	7	55.9			8.872227	
15	1	7	60.3			9.01016	
16	3	7	95.3	1739	1132	9.671505	
17	2	7	68.2	1294		10.597332	
18	1	7	96.2			11.11936	
19	2	7	88.4	1651		11.916302	

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	7	83.3	1256	1246	0.162307	1
1	2	7	72.2	1544		1.058044	
2	3	7	60.8	1507	1174	1.572756	
3	3	7	80.4	1376	1197	2.75165	
4	2	7	72.6	1890		3.086823	
5	3	7	76.9	1423	1670	3.849369	
6	2	7	86.8	1048		5.109891	
7	3	7	88.3	1405	1739	5.766306	
8	2	7	94.4	1335		6.251183	
9	3	7	91.1	1690	1127	7.148573	
10	2	7	67.2	1265		7.860276	
11	1	7	94.3			8.358752	
12	3	7	78.2	1521	1756	9.485507	
13	3	7	50.1	1835	1470	10.068767	
14	1	7	91.5			10.99408	
15	3	7	97.3	1604	1831	11.536969	

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	11	85.9	1990	1289	0.901427	1
1	3	11	87.1	1062	1964	1.825685	
2	1	11	97.9			2.458488	
3	2	11	71.3	1093		4.741261	
4	2	11	58	1694		5.205343	
5	1	11	58.8			6.869547	
6	2	11	89	1155		7.551214	
7	2	11	72.7	1970		9.557724	
8	1	11	64.5			9.832741	
9	1	11	92.8			11.413195	

Bin5 Statistics 21

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	9	95.5	1193	1470	0.003778	1
1	2	9	97.2	1282		2.113618	
2	1	9	71.5			3.081864	
3	1	9	97.6			3.711128	
4	2	9	55.1	1875		5.225998	
5	3	9	91.8	1834	1296	6.77498	
6	2	9	64.9	1469		7.781433	
7	1	9	62.1			8.584801	
8	2	9	83	1098		9.630384	
9	1	9	70.2			10.947893	

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	10	56.1			0.227883	1
1	2	10	56.2	1207		1.488351	
2	1	10	87			2.905502	
3	2	10	92.3	1877		3.786503	
4	1	10	56.7			4.558941	
5	1	10	91.8			5.096734	
6	3	10	82.2	1670	1576	6.680509	
7	2	10	89.8	1882		7.898032	
8	1	10	67			8.808878	
9	2	10	91.5	1662		9.328328	
10	2	10	66.7	1756		10.201769	
11	3	10	67	1124	1753	11.888056	

Bin5 Statistics 23

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	12	81.5	1410	1292	0.061188	
1	2	12	87.3	1676		0.86808	
2	1	12	83.8			1.685252	
3	3	12	58.8	1850	1718	2.493445	
4	2	12	50.8	1534		3.84035	
5	1	12	55.2			4.433078	
6	2	12	75.9	1454		4.821638	
7	1	12	95.9			6.281802	1
8	3	12	83	1282	1111	6.603068	
9	1	12	76.9			7.609796	
10	2	12	75.6	1290		8.372431	
11	3	12	75	1737	1094	8.822891	
12	2	12	56.6	1972		9.781399	
13	3	12	69.1	1992	1111	10.648798	
14	2	12	79.7	1810		11.33187	

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	9	84.5	1578	1485	0.992073	
1	2	9	63.2	1765		1.958151	
2	2	9	94.9	1167		2.889571	
3	2	9	64.1	1850		3.436148	
4	3	9	95.7	1506	1101	4.102363	
5	2	9	88.7	1362		5.238926	
6	3	9	96	1846	1424	6.876993	1
7	2	9	87	1333		7.990789	
8	1	9	81.9			8.248755	
9	1	9	94.6			9.650942	
10	3	9	66.1	1265	1817	10.002975	
11	2	9	93.2	1994		11.155272	

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	19	63.8	1494		0.036932	
1	1	19	61.6			1.332244	
2	1	19	80.2			2.921851	
3	2	19	60.8	1657		3.268789	
4	3	19	57.2	1898	1362	4.1817	
5	1	19	82.5			5.538158	
6	1	19	65.7			6.839743	1
7	2	19	66.7	1865		7.940915	
8	2	19	63.8	1430		8.700581	
9	2	19	59.5	1648		9.105351	
10	1	19	94.1			10.434441	
11	2	19	60.8	1829		11.045942	
0	2	19	63.8	1494		0.036932	

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	7	72.2	1129		0.703629	
1	2	7	76.7	1608		1.134167	
2	1	7	90.5			2.032141	
3	3	7	63	1432	1334	2.419243	
4	3	7	56.8	1586	1148	3.26496	
5	2	7	85.4	1169		4.376325	
6	2	7	51.3	1113		4.761502	
7	2	7	82	1596		5.563489	
8	3	7	91.1	1574	1333	6.233811	1
9	2	7	80.3	1102		7.189446	
10	2	7	52.6	1122		7.906161	
11	3	7	83.4	1057	1434	8.45952	
12	1	7	90.9			9.257136	
13	2	7	86.5	1612		10.246297	
14	2	7	75.1	1821		11.004972	
15	3	7	54.9	1845	1646	11.253199	

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	18	76.9	1284	1604	0.607018	1
1	3	18	67.5	1642	1314	1.80414	
2	3	18	75.5	1230	1729	2.742729	
3	1	18	85.8			2.998554	
4	1	18	92.8			4.329708	
5	2	18	55.2	2000		5.413231	
6	3	18	98.5	1876	1950	5.703165	
7	2	18	61.2	1985		6.917244	
8	1	18	54.4			8.150222	
9	2	18	61	1570		8.345552	
10	3	18	98.1	1000	1299	9.793228	
11	2	18	57.6	1816		10.351983	
12	1	18	76.5			11.543972	

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	58.2	1317		0.399403	1
1	3	9	64.5	1227	1148	1.83651	
2	1	9	74.6			3.542002	
3	2	9	71	1161		4.126692	
4	2	9	57.1	1042		5.60232	
5	2	9	55.2	1236		6.348998	
6	3	9	60.5	1483	1064	7.976577	
7	2	9	58.7	1423		8.72439	
8	2	9	94.3	1282		10.138896	
9	3	9	72.9	1216	1967	11.303878	

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	60.8	1720	1084	0.115567	1
1	2	8	82.8	1532		1.196519	
2	2	8	66.2	1217		1.636133	
3	2	8	92.6	1294		2.686866	
4	2	8	69.7	1466		3.545631	
5	3	8	64.7	1040	1023	3.987477	
6	3	8	53.9	1476	1708	4.723877	
7	2	8	53.6	1739		5.830279	
8	2	8	99.1	1318		6.187718	
9	2	8	85.9	1719		6.867943	
10	1	8	93.8			8.200764	
11	3	8	58.7	1557	1046	8.366338	
12	2	8	52.6	1391		9.225929	
13	2	8	82.7	1001		10.245045	
14	3	8	82.8	1161	1046	10.679106	
15	2	8	83.7	1849		11.376247	

Bin5 Statistics 30

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	19	97.4	1470	1843	0.070771	1
1	2	19	53.3	1935		0.923255	
2	2	19	55.2	1977		1.79432	
3	2	19	91.6	1870		2.603294	
4	2	19	65.4	1356		3.158442	
5	2	19	58.1	1553		4.106862	
6	1	19	65.7			4.906278	
7	2	19	71.6	1745		5.544594	
8	2	19	50.9	1825		6.223001	
9	2	19	57.4	1885		7.274452	
10	2	19	83.1	1605		7.871338	
11	2	19	80.2	1363		8.859618	
12	2	19	93.7	1383		9.213838	
13	3	19	99.6	1392	1069	10.233073	
14	3	19	73.9	1515	1497	10.948543	
15	2	19	92.8	1387		11.883024	

Table-6 Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)	Hopping Sequence
1	5500	9	1	333	1	5456.0, 5643.0, 5331.0, 5658.0, 5282.0, 5682.0, 5413.0, 5684.0, 5253.0, 5666.0, 5701.0, 5654.0, 5552.0, 5531.0, 5574.0, 5465.0, 5543.0, 5722.0, 5298.0, 5383.0, 5608.0, 5308.0, 5674.0, 5571.0, 5386.0, 5289.0, 5577.0, 5411.0, 5656.0, 5357.0, 5256.0, 5444.0, 5317.0, 5598.0, 5605.0, 5479.0, 5540.0, 5655.0, 5259.0, 5419.0, 5476.0, 5440.0, 5393.0, 5582.0, 5375.0, 5500.0, 5690.0, 5515.0, 5549.0, 5707.0, 5668.0, 5562.0, 5278.0, 5676.0, 5527.0, 5523.0, 5657.0, 5402.0, 5261.0, 5700.0, 5263.0, 5537.0, 5258.0, 5619.0, 5279.0, 5489.0, 5475.0, 5420.0, 5292.0, 5629.0, 5290.0, 5606.0, 5350.0, 5492.0, 5678.0, 5526.0, 5376.0, 5334.0, 5316.0, 5478.0, 5630.0, 5291.0, 5462.0, 5283.0, 5474.0, 5723.0, 5532.0, 5639.0, 5427.0, 5704.0, 5695.0, 5712.0, 5546.0, 5564.0, 5321.0, 5342.0, 5329.0, 5390.0, 5330.0, 5385.0 (number of hits: 2)
2	5500	9	1	333	1	5560.0, 5649.0, 5669.0, 5526.0, 5437.0, 5498.0, 5365.0, 5407.0, 5353.0, 5622.0, 5564.0, 5345.0, 5458.0, 5507.0, 5719.0, 5706.0, 5283.0, 5700.0, 5302.0, 5357.0, 5422.0, 5614.0, 5602.0, 5589.0, 5712.0, 5415.0, 5597.0, 5467.0, 5639.0, 5364.0, 5634.0, 5683.0, 5292.0, 5627.0, 5420.0, 5429.0, 5631.0, 5433.0, 5339.0, 5252.0, 5358.0, 5403.0, 5480.0, 5530.0, 5644.0, 5672.0, 5468.0, 5394.0, 5544.0, 5661.0, 5592.0, 5369.0, 5666.0, 5617.0, 5351.0, 5581.0, 5559.0, 5390.0, 5400.0, 5317.0, 5312.0, 5268.0, 5594.0, 5275.0, 5294.0, 5276.0, 5633.0, 5472.0, 5456.0, 5515.0, 5635.0, 5460.0, 5714.0, 5499.0, 5298.0, 5352.0, 5568.0, 5308.0, 5273.0, 5303.0, 5388.0, 5556.0, 5251.0, 5532.0, 5693.0, 5618.0, 5715.0, 5580.0, 5582.0, 5260.0, 5393.0, 5518.0, 5599.0, 5660.0, 5573.0, 5367.0, 5540.0, 5381.0, 5555.0, 5513.0 (number of hits: 3)
3	5500	9	1	333	1	5501.0, 5548.0, 5458.0, 5577.0, 5453.0, 5279.0, 5266.0, 5464.0, 5668.0, 5373.0, 5451.0, 5552.0, 5692.0, 5589.0, 5694.0, 5571.0, 5558.0, 5645.0, 5391.0, 5549.0, 5722.0, 5715.0, 5631.0, 5388.0, 5273.0, 5278.0, 5307.0, 5387.0, 5478.0, 5660.0, 5409.0, 5559.0, 5262.0, 5316.0, 5380.0, 5683.0, 5610.0, 5687.0, 5446.0, 5583.0, 5403.0, 5574.0, 5623.0, 5424.0, 5335.0, 5718.0, 5309.0, 5596.0, 5325.0, 5445.0, 5555.0, 5707.0, 5723.0, 5276.0, 5650.0,

						5693.0, 5418.0, 5512.0, 5382.0, 5532.0, 5652.0, 5647.0, 5303.0, 5472.0, 5296.0, 5286.0, 5522.0, 5361.0, 5267.0, 5396.0, 5450.0, 5405.0, 5524.0, 5369.0, 5422.0, 5275.0, 5690.0, 5308.0, 5494.0, 5586.0, 5598.0, 5481.0, 5374.0, 5570.0, 5518.0, 5294.0, 5476.0, 5617.0, 5492.0, 5689.0, 5503.0, 5619.0, 5593.0, 5467.0, 5259.0, 5338.0, 5688.0, 5287.0, 5489.0, 5474.0 (number of hits: 4)
4	5500	9	1	333	1	5651.0, 5333.0, 5395.0, 5585.0, 5690.0, 5349.0, 5387.0, 5286.0, 5447.0, 5665.0, 5448.0, 5361.0, 5633.0, 5358.0, 5542.0, 5467.0, 5504.0, 5603.0, 5442.0, 5313.0, 5322.0, 5595.0, 5380.0, 5677.0, 5293.0, 5577.0, 5637.0, 5357.0, 5281.0, 5578.0, 5562.0, 5451.0, 5450.0, 5359.0, 5492.0, 5544.0, 5693.0, 5377.0, 5565.0, 5654.0, 5724.0, 5469.0, 5417.0, 5710.0, 5630.0, 5363.0, 5625.0, 5592.0, 5444.0, 5294.0, 5529.0, 5559.0, 5473.0, 5688.0, 5493.0, 5393.0, 5314.0, 5531.0, 5588.0, 5549.0, 5522.0, 5564.0, 5460.0, 5335.0, 5714.0, 5623.0, 5663.0, 5662.0, 5267.0, 5372.0, 5616.0, 5627.0, 5331.0, 5644.0, 5655.0, 5412.0, 5561.0, 5687.0, 5291.0, 5326.0, 5600.0, 5369.0, 5569.0, 5296.0, 5540.0, 5557.0, 5481.0, 5532.0, 5354.0, 5535.0, 5280.0, 5398.0, 5269.0, 5316.0, 5356.0, 5308.0, 5672.0, 5478.0, 5552.0, 5527.0 (number of hits: 3)
5	5500	9	1	333	1	5706.0, 5605.0, 5534.0, 5562.0, 5289.0, 5504.0, 5723.0, 5668.0, 5343.0, 5608.0, 5334.0, 5377.0, 5561.0, 5697.0, 5609.0, 5541.0, 5469.0, 5546.0, 5692.0, 5279.0, 5721.0, 5666.0, 5354.0, 5614.0, 5591.0, 5375.0, 5392.0, 5529.0, 5652.0, 5690.0, 5506.0, 5597.0, 5554.0, 5521.0, 5406.0, 5269.0, 5719.0, 5403.0, 5352.0, 5393.0, 5543.0, 5676.0, 5551.0, 5346.0, 5318.0, 5303.0, 5496.0, 5341.0, 5679.0, 5376.0, 5641.0, 5628.0, 5458.0, 5649.0, 5659.0, 5522.0, 5629.0, 5523.0, 5647.0, 5611.0, 5515.0, 5612.0, 5425.0, 5362.0, 5450.0, 5537.0, 5391.0, 5486.0, 5284.0, 5665.0, 5293.0, 5475.0, 5590.0, 5538.0, 5434.0, 5568.0, 5386.0, 5399.0, 5328.0, 5580.0, 5680.0, 5631.0, 5315.0, 5505.0, 5345.0, 5683.0, 5370.0, 5447.0, 5264.0, 5531.0, 5673.0, 5312.0, 5369.0, 5353.0, 5658.0, 5616.0, 5501.0, 5577.0, 5705.0, 5645.0 (number of hits: 5)
6	5500	9	1	333	1	5315.0, 5349.0, 5576.0, 5383.0, 5356.0, 5668.0, 5351.0, 5643.0, 5265.0, 5589.0, 5660.0, 5650.0, 5414.0, 5285.0, 5547.0, 5469.0, 5402.0, 5271.0, 5550.0, 5595.0, 5524.0, 5653.0, 5708.0, 5264.0, 5603.0, 5406.0, 5378.0, 5495.0, 5667.0, 5387.0, 5428.0, 5308.0, 5516.0, 5345.0, 5636.0,

						5281.0, 5282.0, 5417.0, 5293.0, 5366.0, 5512.0, 5565.0, 5706.0, 5631.0, 5488.0, 5386.0, 5523.0, 5649.0, 5299.0, 5563.0, 5585.0, 5272.0, 5718.0, 5396.0, 5606.0, 5275.0, 5470.0, 5676.0, 5559.0, 5323.0, 5693.0, 5443.0, 5544.0, 5370.0, 5329.0, 5491.0, 5405.0, 5677.0, 5427.0, 5385.0, 5637.0, 5593.0, 5311.0, 5594.0, 5615.0, 5639.0, 5471.0, 5325.0, 5596.0, 5519.0, 5254.0, 5416.0, 5566.0, 5616.0, 5538.0, 5536.0, 5256.0, 5390.0, 5420.0, 5259.0, 5542.0, 5339.0, 5500.0, 5686.0, 5568.0, 5692.0, 5579.0, 5508.0, 5498.0, 5338.0 (number of hits: 5)
7	5500	9	1	333	1	5600.0, 5416.0, 5501.0, 5441.0, 5517.0, 5718.0, 5267.0, 5533.0, 5394.0, 5384.0, 5344.0, 5289.0, 5425.0, 5554.0, 5463.0, 5490.0, 5484.0, 5430.0, 5422.0, 5607.0, 5520.0, 5522.0, 5387.0, 5597.0, 5297.0, 5528.0, 5316.0, 5353.0, 5678.0, 5540.0, 5547.0, 5615.0, 5510.0, 5335.0, 5465.0, 5648.0, 5702.0, 5343.0, 5409.0, 5433.0, 5405.0, 5700.0, 5285.0, 5314.0, 5420.0, 5632.0, 5309.0, 5609.0, 5255.0, 5535.0, 5617.0, 5252.0, 5260.0, 5471.0, 5396.0, 5703.0, 5488.0, 5412.0, 5293.0, 5712.0, 5542.0, 5474.0, 5596.0, 5494.0, 5651.0, 5445.0, 5570.0, 5303.0, 5507.0, 5715.0, 5275.0, 5375.0, 5320.0, 5620.0, 5585.0, 5716.0, 5415.0, 5659.0, 5315.0, 5499.0, 5582.0, 5263.0, 5385.0, 5268.0, 5317.0, 5667.0, 5491.0, 5593.0, 5531.0, 5538.0, 5623.0, 5561.0, 5618.0, 5500.0, 5292.0, 5354.0, 5521.0, 5503.0, 5428.0, 5431.0 (number of hits: 8)
8	5500	9	1	333	1	5476.0, 5625.0, 5567.0, 5715.0, 5333.0, 5328.0, 5589.0, 5252.0, 5620.0, 5258.0, 5531.0, 5286.0, 5641.0, 5498.0, 5563.0, 5602.0, 5721.0, 5635.0, 5577.0, 5250.0, 5663.0, 5458.0, 5536.0, 5409.0, 5707.0, 5560.0, 5487.0, 5683.0, 5600.0, 5723.0, 5338.0, 5678.0, 5684.0, 5599.0, 5540.0, 5419.0, 5311.0, 5423.0, 5514.0, 5529.0, 5522.0, 5394.0, 5712.0, 5277.0, 5308.0, 5538.0, 5336.0, 5366.0, 5546.0, 5269.0, 5559.0, 5301.0, 5619.0, 5268.0, 5579.0, 5606.0, 5509.0, 5503.0, 5390.0, 5455.0, 5448.0, 5447.0, 5271.0, 5534.0, 5634.0, 5410.0, 5352.0, 5490.0, 5424.0, 5297.0, 5636.0, 5504.0, 5485.0, 5592.0, 5259.0, 5630.0, 5483.0, 5428.0, 5436.0, 5629.0, 5710.0, 5492.0, 5355.0, 5279.0, 5566.0, 5527.0, 5397.0, 5672.0, 5626.0, 5354.0, 5484.0, 5660.0, 5378.0, 5593.0, 5434.0, 5288.0, 5384.0, 5623.0, 5671.0, 5690.0 (number of hits: 6)
9	5500	9	1	333	1	5595.0, 5313.0, 5358.0, 5588.0, 5436.0, 5395.0, 5310.0, 5394.0, 5342.0, 5359.0, 5705.0, 5352.0, 5632.0, 5549.0, 5317.0,

						5399.0, 5426.0, 5396.0, 5408.0, 5611.0, 5312.0, 5454.0, 5669.0, 5654.0, 5642.0, 5512.0, 5423.0, 5390.0, 5660.0, 5402.0, 5630.0, 5335.0, 5715.0, 5360.0, 5578.0, 5288.0, 5694.0, 5275.0, 5680.0, 5533.0, 5468.0, 5519.0, 5583.0, 5650.0, 5614.0, 5692.0, 5711.0, 5483.0, 5372.0, 5656.0, 5547.0, 5318.0, 5511.0, 5292.0, 5285.0, 5259.0, 5603.0, 5297.0, 5361.0, 5261.0, 5411.0, 5364.0, 5316.0, 5444.0, 5557.0, 5481.0, 5677.0, 5336.0, 5260.0, 5387.0, 5517.0, 5453.0, 5462.0, 5662.0, 5522.0, 5719.0, 5271.0, 5367.0, 5250.0, 5562.0, 5556.0, 5651.0, 5489.0, 5520.0, 5518.0, 5712.0, 5653.0, 5683.0, 5438.0, 5445.0, 5475.0, 5716.0, 5700.0, 5389.0, 5458.0, 5543.0, 5685.0, 5255.0, 5637.0, 5507.0 (number of hits: 1)
10	5500	9	1	333	1	5570.0, 5364.0, 5454.0, 5684.0, 5720.0, 5363.0, 5705.0, 5300.0, 5547.0, 5399.0, 5347.0, 5398.0, 5393.0, 5374.0, 5687.0, 5502.0, 5448.0, 5607.0, 5614.0, 5397.0, 5569.0, 5450.0, 5535.0, 5299.0, 5296.0, 5434.0, 5640.0, 5526.0, 5470.0, 5617.0, 5544.0, 5537.0, 5628.0, 5337.0, 5708.0, 5541.0, 5442.0, 5563.0, 5270.0, 5496.0, 5367.0, 5592.0, 5610.0, 5348.0, 5262.0, 5584.0, 5342.0, 5624.0, 5674.0, 5330.0, 5336.0, 5317.0, 5712.0, 5719.0, 5349.0, 5568.0, 5360.0, 5447.0, 5439.0, 5581.0, 5660.0, 5573.0, 5276.0, 5508.0, 5411.0, 5460.0, 5698.0, 5549.0, 5278.0, 5358.0, 5675.0, 5314.0, 5386.0, 5646.0, 5257.0, 5430.0, 5319.0, 5440.0, 5627.0, 5623.0, 5625.0, 5482.0, 5326.0, 5369.0, 5542.0, 5567.0, 5406.0, 5498.0, 5436.0, 5670.0, 5683.0, 5580.0, 5275.0, 5724.0, 5457.0, 5297.0, 5484.0, 5634.0, 5641.0, 5600.0 (number of hits: 4)
11	5500	9	1	333	1	5582.0, 5454.0, 5357.0, 5546.0, 5274.0, 5649.0, 5432.0, 5707.0, 5520.0, 5469.0, 5639.0, 5634.0, 5702.0, 5681.0, 5528.0, 5330.0, 5495.0, 5711.0, 5296.0, 5513.0, 5355.0, 5710.0, 5628.0, 5272.0, 5488.0, 5459.0, 5364.0, 5590.0, 5620.0, 5306.0, 5601.0, 5563.0, 5345.0, 5612.0, 5300.0, 5538.0, 5696.0, 5252.0, 5401.0, 5618.0, 5619.0, 5549.0, 5478.0, 5606.0, 5637.0, 5566.0, 5638.0, 5470.0, 5409.0, 5379.0, 5444.0, 5500.0, 5264.0, 5515.0, 5523.0, 5374.0, 5483.0, 5508.0, 5667.0, 5313.0, 5574.0, 5693.0, 5560.0, 5697.0, 5583.0, 5383.0, 5527.0, 5576.0, 5288.0, 5519.0, 5402.0, 5263.0, 5579.0, 5572.0, 5411.0, 5503.0, 5453.0, 5502.0, 5466.0, 5632.0, 5564.0, 5510.0, 5450.0, 5587.0, 5512.0, 5657.0, 5636.0, 5650.0, 5588.0, 5584.0, 5279.0, 5544.0, 5499.0, 5269.0, 5385.0, 5504.0, 5332.0, 5266.0, 5433.0, 5316.0

						(number of hits: 7)
12	5500	9	1	333	1	5529.0, 5591.0, 5333.0, 5276.0, 5617.0, 5415.0, 5574.0, 5272.0, 5653.0, 5277.0, 5694.0, 5456.0, 5585.0, 5306.0, 5447.0, 5488.0, 5400.0, 5587.0, 5324.0, 5427.0, 5368.0, 5549.0, 5434.0, 5514.0, 5717.0, 5603.0, 5695.0, 5599.0, 5649.0, 5500.0, 5316.0, 5642.0, 5330.0, 5367.0, 5612.0, 5286.0, 5676.0, 5672.0, 5326.0, 5528.0, 5296.0, 5339.0, 5348.0, 5461.0, 5470.0, 5494.0, 5338.0, 5266.0, 5386.0, 5608.0, 5552.0, 5560.0, 5712.0, 5270.0, 5486.0, 5607.0, 5508.0, 5476.0, 5668.0, 5542.0, 5261.0, 5422.0, 5526.0, 5523.0, 5334.0, 5455.0, 5425.0, 5300.0, 5682.0, 5351.0, 5541.0, 5292.0, 5687.0, 5697.0, 5450.0, 5498.0, 5320.0, 5692.0, 5696.0, 5416.0, 5359.0, 5318.0, 5630.0, 5391.0, 5258.0, 5392.0, 5469.0, 5264.0, 5651.0, 5584.0, 5518.0, 5256.0, 5361.0, 5616.0, 5352.0, 5715.0, 5654.0, 5709.0, 5567.0, 5504.0 (number of hits: 5)
13	5500	9	1	333	1	5287.0, 5573.0, 5653.0, 5707.0, 5401.0, 5379.0, 5575.0, 5688.0, 5572.0, 5615.0, 5532.0, 5268.0, 5327.0, 5436.0, 5658.0, 5434.0, 5270.0, 5586.0, 5351.0, 5580.0, 5415.0, 5406.0, 5584.0, 5273.0, 5634.0, 5650.0, 5374.0, 5605.0, 5655.0, 5488.0, 5521.0, 5282.0, 5565.0, 5687.0, 5343.0, 5367.0, 5385.0, 5550.0, 5383.0, 5321.0, 5393.0, 5601.0, 5446.0, 5583.0, 5391.0, 5449.0, 5324.0, 5695.0, 5514.0, 5463.0, 5530.0, 5414.0, 5450.0, 5553.0, 5373.0, 5487.0, 5697.0, 5629.0, 5620.0, 5397.0, 5581.0, 5480.0, 5291.0, 5718.0, 5595.0, 5720.0, 5467.0, 5313.0, 5639.0, 5662.0, 5546.0, 5416.0, 5447.0, 5316.0, 5474.0, 5669.0, 5454.0, 5589.0, 5477.0, 5366.0, 5506.0, 5599.0, 5395.0, 5622.0, 5537.0, 5338.0, 5326.0, 5515.0, 5318.0, 5460.0, 5576.0, 5621.0, 5309.0, 5511.0, 5444.0, 5441.0, 5674.0, 5702.0, 5303.0, 5566.0 (number of hits: 1)
14	5500	9	1	333	1	5574.0, 5583.0, 5512.0, 5305.0, 5524.0, 5539.0, 5344.0, 5422.0, 5721.0, 5287.0, 5607.0, 5479.0, 5616.0, 5335.0, 5484.0, 5250.0, 5687.0, 5528.0, 5492.0, 5526.0, 5289.0, 5568.0, 5428.0, 5274.0, 5433.0, 5502.0, 5265.0, 5405.0, 5646.0, 5373.0, 5381.0, 5366.0, 5645.0, 5376.0, 5483.0, 5546.0, 5647.0, 5410.0, 5525.0, 5264.0, 5662.0, 5389.0, 5292.0, 5604.0, 5369.0, 5418.0, 5271.0, 5443.0, 5464.0, 5383.0, 5697.0, 5309.0, 5355.0, 5286.0, 5716.0, 5255.0, 5295.0, 5435.0, 5701.0, 5566.0, 5425.0, 5411.0, 5590.0, 5282.0, 5527.0, 5632.0, 5550.0, 5319.0, 5364.0, 5575.0, 5429.0, 5712.0, 5544.0, 5419.0, 5454.0, 5334.0, 5667.0, 5599.0, 5331.0, 5626.0,

						5449.0, 5462.0, 5333.0, 5456.0, 5543.0, 5700.0, 5558.0, 5296.0, 5690.0, 5521.0, 5702.0, 5635.0, 5507.0, 5669.0, 5652.0, 5597.0, 5354.0, 5437.0, 5513.0, 5253.0 (number of hits: 3)
15	5500	9	1	333	1	5303.0, 5580.0, 5490.0, 5392.0, 5668.0, 5648.0, 5301.0, 5573.0, 5589.0, 5446.0, 5689.0, 5637.0, 5649.0, 5593.0, 5400.0, 5337.0, 5506.0, 5704.0, 5517.0, 5389.0, 5638.0, 5640.0, 5427.0, 5623.0, 5312.0, 5417.0, 5350.0, 5341.0, 5659.0, 5629.0, 5626.0, 5268.0, 5532.0, 5447.0, 5599.0, 5304.0, 5686.0, 5518.0, 5581.0, 5430.0, 5440.0, 5624.0, 5379.0, 5688.0, 5706.0, 5316.0, 5683.0, 5458.0, 5588.0, 5331.0, 5338.0, 5295.0, 5577.0, 5503.0, 5656.0, 5578.0, 5562.0, 5662.0, 5587.0, 5666.0, 5336.0, 5402.0, 5328.0, 5311.0, 5639.0, 5718.0, 5382.0, 5627.0, 5324.0, 5405.0, 5351.0, 5275.0, 5413.0, 5538.0, 5421.0, 5500.0, 5253.0, 5322.0, 5528.0, 5660.0, 5378.0, 5302.0, 5477.0, 5265.0, 5615.0, 5371.0, 5515.0, 5553.0, 5696.0, 5616.0, 5598.0, 5258.0, 5363.0, 5300.0, 5395.0, 5404.0, 5299.0, 5354.0, 5279.0, 5436.0 (number of hits: 4)
16	5500	9	1	333	1	5477.0, 5372.0, 5392.0, 5547.0, 5293.0, 5632.0, 5442.0, 5308.0, 5579.0, 5262.0, 5391.0, 5349.0, 5257.0, 5301.0, 5398.0, 5332.0, 5611.0, 5514.0, 5282.0, 5643.0, 5375.0, 5482.0, 5401.0, 5253.0, 5576.0, 5567.0, 5465.0, 5355.0, 5352.0, 5591.0, 5516.0, 5394.0, 5597.0, 5463.0, 5440.0, 5562.0, 5520.0, 5297.0, 5530.0, 5256.0, 5383.0, 5670.0, 5644.0, 5519.0, 5686.0, 5604.0, 5668.0, 5653.0, 5494.0, 5422.0, 5522.0, 5695.0, 5431.0, 5549.0, 5496.0, 5628.0, 5654.0, 5497.0, 5598.0, 5594.0, 5418.0, 5554.0, 5379.0, 5665.0, 5607.0, 5403.0, 5659.0, 5485.0, 5338.0, 5459.0, 5304.0, 5706.0, 5707.0, 5438.0, 5316.0, 5444.0, 5273.0, 5448.0, 5483.0, 5584.0, 5661.0, 5466.0, 5354.0, 5390.0, 5544.0, 5393.0, 5616.0, 5377.0, 5408.0, 5428.0, 5453.0, 5343.0, 5605.0, 5671.0, 5715.0, 5581.0, 5429.0, 5468.0, 5721.0, 5534.0 (number of hits: 3)
17	5500	9	1	333	1	5563.0, 5545.0, 5484.0, 5586.0, 5694.0, 5554.0, 5660.0, 5612.0, 5574.0, 5620.0, 5623.0, 5462.0, 5358.0, 5396.0, 5335.0, 5430.0, 5270.0, 5513.0, 5260.0, 5311.0, 5629.0, 5683.0, 5640.0, 5720.0, 5587.0, 5302.0, 5463.0, 5377.0, 5427.0, 5675.0, 5710.0, 5518.0, 5489.0, 5332.0, 5285.0, 5591.0, 5294.0, 5346.0, 5632.0, 5460.0, 5649.0, 5670.0, 5378.0, 5672.0, 5498.0, 5336.0, 5312.0, 5353.0, 5714.0, 5365.0, 5723.0, 5420.0, 5273.0, 5619.0, 5533.0, 5576.0, 5411.0, 5577.0, 5499.0, 5496.0,

						5425.0, 5527.0, 5305.0, 5279.0, 5471.0, 5655.0, 5452.0, 5523.0, 5329.0, 5667.0, 5408.0, 5594.0, 5323.0, 5428.0, 5277.0, 5592.0, 5403.0, 5344.0, 5529.0, 5548.0, 5631.0, 5522.0, 5363.0, 5701.0, 5274.0, 5657.0, 5446.0, 5504.0, 5418.0, 5606.0, 5525.0, 5544.0, 5466.0, 5386.0, 5283.0, 5557.0, 5382.0, 5501.0, 5590.0, 5404.0 (number of hits: 5)
18	5500	9	1	333	1	5636.0, 5509.0, 5488.0, 5503.0, 5288.0, 5320.0, 5514.0, 5497.0, 5393.0, 5269.0, 5436.0, 5674.0, 5279.0, 5695.0, 5277.0, 5685.0, 5595.0, 5290.0, 5614.0, 5504.0, 5546.0, 5706.0, 5449.0, 5641.0, 5686.0, 5348.0, 5338.0, 5619.0, 5476.0, 5704.0, 5438.0, 5545.0, 5305.0, 5698.0, 5367.0, 5511.0, 5564.0, 5346.0, 5540.0, 5334.0, 5392.0, 5275.0, 5292.0, 5374.0, 5307.0, 5278.0, 5459.0, 5609.0, 5394.0, 5339.0, 5660.0, 5507.0, 5510.0, 5353.0, 5624.0, 5676.0, 5314.0, 5694.0, 5528.0, 5596.0, 5326.0, 5444.0, 5387.0, 5401.0, 5580.0, 5327.0, 5572.0, 5396.0, 5251.0, 5539.0, 5525.0, 5574.0, 5456.0, 5622.0, 5589.0, 5359.0, 5702.0, 5303.0, 5345.0, 5639.0, 5397.0, 5522.0, 5692.0, 5577.0, 5544.0, 5487.0, 5333.0, 5517.0, 5337.0, 5506.0, 5299.0, 5671.0, 5471.0, 5480.0, 5724.0, 5287.0, 5463.0, 5705.0, 5281.0, 5715.0 (number of hits: 6)
19	5500	9	1	333	1	5456.0, 5315.0, 5585.0, 5551.0, 5395.0, 5526.0, 5603.0, 5372.0, 5683.0, 5720.0, 5503.0, 5363.0, 5537.0, 5401.0, 5470.0, 5421.0, 5254.0, 5430.0, 5311.0, 5529.0, 5337.0, 5433.0, 5622.0, 5471.0, 5255.0, 5549.0, 5292.0, 5681.0, 5290.0, 5673.0, 5394.0, 5252.0, 5688.0, 5486.0, 5439.0, 5625.0, 5300.0, 5432.0, 5467.0, 5466.0, 5502.0, 5381.0, 5287.0, 5584.0, 5497.0, 5592.0, 5412.0, 5682.0, 5691.0, 5595.0, 5519.0, 5605.0, 5530.0, 5465.0, 5518.0, 5560.0, 5640.0, 5341.0, 5386.0, 5416.0, 5328.0, 5361.0, 5370.0, 5687.0, 5553.0, 5611.0, 5670.0, 5606.0, 5355.0, 5718.0, 5460.0, 5375.0, 5310.0, 5294.0, 5657.0, 5624.0, 5351.0, 5504.0, 5253.0, 5671.0, 5396.0, 5667.0, 5393.0, 5306.0, 5389.0, 5278.0, 5591.0, 5338.0, 5322.0, 5534.0, 5690.0, 5410.0, 5490.0, 5384.0, 5617.0, 5288.0, 5672.0, 5636.0, 5283.0, 5614.0 (number of hits: 5)
20	5500	9	1	333	1	5374.0, 5632.0, 5587.0, 5402.0, 5694.0, 5468.0, 5481.0, 5625.0, 5258.0, 5326.0, 5353.0, 5397.0, 5517.0, 5411.0, 5331.0, 5720.0, 5444.0, 5667.0, 5457.0, 5610.0, 5333.0, 5260.0, 5528.0, 5280.0, 5381.0, 5634.0, 5378.0, 5305.0, 5358.0, 5482.0, 5619.0, 5668.0, 5340.0, 5317.0, 5648.0, 5359.0, 5669.0, 5721.0, 5263.0, 5367.0,

						5700.0, 5516.0, 5416.0, 5536.0, 5498.0, 5655.0, 5253.0, 5324.0, 5589.0, 5576.0, 5543.0, 5664.0, 5486.0, 5376.0, 5709.0, 5546.0, 5277.0, 5564.0, 5649.0, 5371.0, 5495.0, 5604.0, 5413.0, 5377.0, 5684.0, 5717.0, 5688.0, 5275.0, 5390.0, 5383.0, 5270.0, 5541.0, 5699.0, 5630.0, 5537.0, 5380.0, 5555.0, 5681.0, 5313.0, 5525.0, 5526.0, 5614.0, 5492.0, 5300.0, 5616.0, 5715.0, 5312.0, 5302.0, 5391.0, 5299.0, 5474.0, 5569.0, 5460.0, 5295.0, 5643.0, 5712.0, 5285.0, 5430.0, 5417.0, 5410.0 (number of hits: 3)
21	5500	9	1	333	1	5593.0, 5311.0, 5531.0, 5416.0, 5334.0, 5397.0, 5461.0, 5520.0, 5310.0, 5340.0, 5533.0, 5575.0, 5522.0, 5296.0, 5512.0, 5333.0, 5297.0, 5656.0, 5315.0, 5633.0, 5516.0, 5488.0, 5268.0, 5355.0, 5549.0, 5304.0, 5359.0, 5680.0, 5701.0, 5670.0, 5267.0, 5657.0, 5710.0, 5665.0, 5384.0, 5698.0, 5486.0, 5653.0, 5361.0, 5443.0, 5620.0, 5352.0, 5648.0, 5636.0, 5474.0, 5711.0, 5480.0, 5324.0, 5424.0, 5419.0, 5548.0, 5514.0, 5556.0, 5402.0, 5457.0, 5511.0, 5279.0, 5376.0, 5573.0, 5274.0, 5390.0, 5367.0, 5305.0, 5505.0, 5671.0, 5713.0, 5408.0, 5566.0, 5257.0, 5513.0, 5571.0, 5454.0, 5496.0, 5546.0, 5578.0, 5591.0, 5450.0, 5365.0, 5354.0, 5321.0, 5325.0, 5499.0, 5645.0, 5498.0, 5565.0, 5269.0, 5401.0, 5623.0, 5478.0, 5435.0, 5616.0, 5507.0, 5348.0, 5290.0, 5322.0, 5437.0, 5567.0, 5250.0, 5371.0, 5399.0 (number of hits: 5)
22	5500	9	1	333	1	5534.0, 5387.0, 5628.0, 5303.0, 5448.0, 5632.0, 5564.0, 5313.0, 5390.0, 5444.0, 5273.0, 5252.0, 5657.0, 5676.0, 5280.0, 5309.0, 5721.0, 5588.0, 5581.0, 5647.0, 5627.0, 5412.0, 5683.0, 5497.0, 5411.0, 5651.0, 5266.0, 5467.0, 5323.0, 5294.0, 5578.0, 5408.0, 5536.0, 5590.0, 5705.0, 5318.0, 5302.0, 5602.0, 5281.0, 5694.0, 5488.0, 5479.0, 5269.0, 5353.0, 5442.0, 5409.0, 5330.0, 5612.0, 5568.0, 5349.0, 5365.0, 5679.0, 5308.0, 5699.0, 5341.0, 5543.0, 5393.0, 5555.0, 5662.0, 5346.0, 5307.0, 5623.0, 5643.0, 5566.0, 5542.0, 5264.0, 5315.0, 5405.0, 5418.0, 5344.0, 5319.0, 5597.0, 5639.0, 5457.0, 5512.0, 5421.0, 5567.0, 5640.0, 5577.0, 5706.0, 5562.0, 5659.0, 5686.0, 5492.0, 5672.0, 5397.0, 5554.0, 5439.0, 5311.0, 5519.0, 5382.0, 5463.0, 5687.0, 5433.0, 5529.0, 5559.0, 5503.0, 5634.0, 5713.0, 5637.0 (number of hits: 3)
23	5500	9	1	333	1	5339.0, 5400.0, 5357.0, 5522.0, 5620.0, 5556.0, 5291.0, 5529.0, 5292.0, 5380.0, 5624.0, 5402.0, 5334.0, 5542.0, 5496.0, 5579.0, 5569.0, 5374.0, 5313.0, 5256.0,

						5571.0, 5495.0, 5443.0, 5416.0, 5326.0, 5257.0, 5470.0, 5658.0, 5344.0, 5426.0, 5308.0, 5255.0, 5617.0, 5388.0, 5524.0, 5598.0, 5544.0, 5457.0, 5688.0, 5585.0, 5654.0, 5665.0, 5623.0, 5634.0, 5601.0, 5509.0, 5709.0, 5372.0, 5375.0, 5678.0, 5631.0, 5304.0, 5590.0, 5394.0, 5581.0, 5273.0, 5482.0, 5491.0, 5452.0, 5693.0, 5289.0, 5405.0, 5459.0, 5609.0, 5702.0, 5679.0, 5276.0, 5264.0, 5582.0, 5695.0, 5675.0, 5268.0, 5360.0, 5650.0, 5487.0, 5490.0, 5663.0, 5561.0, 5438.0, 5606.0, 5341.0, 5329.0, 5708.0, 5553.0, 5445.0, 5376.0, 5444.0, 5694.0, 5293.0, 5319.0, 5632.0, 5262.0, 5488.0, 5586.0, 5336.0, 5362.0, 5297.0, 5499.0, 5422.0, 5619.0 (number of hits: 6)
24	5500	9	1	333	1	5325.0, 5637.0, 5313.0, 5678.0, 5690.0, 5623.0, 5522.0, 5706.0, 5610.0, 5285.0, 5356.0, 5567.0, 5471.0, 5514.0, 5507.0, 5290.0, 5485.0, 5396.0, 5515.0, 5570.0, 5423.0, 5641.0, 5663.0, 5615.0, 5326.0, 5613.0, 5487.0, 5600.0, 5602.0, 5677.0, 5493.0, 5364.0, 5568.0, 5344.0, 5537.0, 5315.0, 5698.0, 5601.0, 5355.0, 5453.0, 5461.0, 5282.0, 5446.0, 5345.0, 5341.0, 5378.0, 5441.0, 5573.0, 5598.0, 5425.0, 5638.0, 5684.0, 5588.0, 5267.0, 5292.0, 5549.0, 5467.0, 5686.0, 5318.0, 5458.0, 5625.0, 5561.0, 5636.0, 5642.0, 5541.0, 5379.0, 5516.0, 5498.0, 5707.0, 5574.0, 5630.0, 5479.0, 5633.0, 5702.0, 5270.0, 5300.0, 5289.0, 5437.0, 5585.0, 5501.0, 5523.0, 5253.0, 5548.0, 5669.0, 5312.0, 5268.0, 5609.0, 5276.0, 5679.0, 5468.0, 5655.0, 5640.0, 5374.0, 5543.0, 5545.0, 5582.0, 5351.0, 5648.0, 5664.0, 5420.0 (number of hits: 4)
25	5500	9	1	333	1	5512.0, 5374.0, 5675.0, 5332.0, 5470.0, 5629.0, 5622.0, 5422.0, 5345.0, 5529.0, 5351.0, 5405.0, 5582.0, 5282.0, 5276.0, 5452.0, 5709.0, 5553.0, 5375.0, 5487.0, 5517.0, 5408.0, 5283.0, 5397.0, 5663.0, 5513.0, 5287.0, 5555.0, 5507.0, 5703.0, 5469.0, 5530.0, 5563.0, 5286.0, 5305.0, 5363.0, 5641.0, 5674.0, 5323.0, 5549.0, 5672.0, 5391.0, 5490.0, 5365.0, 5651.0, 5395.0, 5689.0, 5445.0, 5317.0, 5670.0, 5606.0, 5308.0, 5537.0, 5473.0, 5547.0, 5318.0, 5666.0, 5650.0, 5477.0, 5569.0, 5294.0, 5449.0, 5370.0, 5605.0, 5416.0, 5610.0, 5583.0, 5615.0, 5457.0, 5662.0, 5325.0, 5493.0, 5504.0, 5385.0, 5295.0, 5330.0, 5684.0, 5441.0, 5437.0, 5267.0, 5652.0, 5261.0, 5551.0, 5624.0, 5350.0, 5281.0, 5389.0, 5343.0, 5617.0, 5524.0, 5297.0, 5427.0, 5516.0, 5716.0, 5337.0, 5251.0, 5592.0, 5538.0, 5339.0, 5373.0 (number of hits: 4)

26	5500	9	1	333	1	5680.0, 5715.0, 5484.0, 5450.0, 5362.0, 5580.0, 5435.0, 5436.0, 5656.0, 5430.0, 5578.0, 5711.0, 5703.0, 5257.0, 5442.0, 5444.0, 5437.0, 5543.0, 5563.0, 5654.0, 5253.0, 5306.0, 5445.0, 5470.0, 5706.0, 5709.0, 5613.0, 5702.0, 5475.0, 5666.0, 5328.0, 5534.0, 5266.0, 5707.0, 5660.0, 5334.0, 5405.0, 5487.0, 5353.0, 5339.0, 5531.0, 5530.0, 5354.0, 5337.0, 5355.0, 5598.0, 5712.0, 5300.0, 5439.0, 5512.0, 5669.0, 5565.0, 5573.0, 5485.0, 5503.0, 5359.0, 5290.0, 5398.0, 5716.0, 5298.0, 5279.0, 5455.0, 5408.0, 5363.0, 5494.0, 5251.0, 5665.0, 5695.0, 5545.0, 5542.0, 5429.0, 5312.0, 5586.0, 5287.0, 5640.0, 5678.0, 5326.0, 5479.0, 5577.0, 5379.0, 5696.0, 5259.0, 5368.0, 5581.0, 5566.0, 5447.0, 5282.0, 5417.0, 5691.0, 5313.0, 5425.0, 5572.0, 5633.0, 5605.0, 5677.0, 5491.0, 5421.0, 5335.0, 5676.0, 5390.0 (number of hits: 3)
27	5500	9	1	333	1	5274.0, 5422.0, 5630.0, 5542.0, 5291.0, 5570.0, 5598.0, 5706.0, 5452.0, 5524.0, 5638.0, 5450.0, 5719.0, 5275.0, 5325.0, 5575.0, 5584.0, 5423.0, 5424.0, 5300.0, 5621.0, 5434.0, 5437.0, 5496.0, 5614.0, 5435.0, 5401.0, 5594.0, 5637.0, 5323.0, 5316.0, 5696.0, 5313.0, 5297.0, 5555.0, 5345.0, 5664.0, 5526.0, 5544.0, 5721.0, 5700.0, 5421.0, 5333.0, 5266.0, 5443.0, 5344.0, 5363.0, 5548.0, 5536.0, 5568.0, 5663.0, 5488.0, 5634.0, 5521.0, 5384.0, 5557.0, 5453.0, 5659.0, 5373.0, 5339.0, 5444.0, 5509.0, 5360.0, 5578.0, 5522.0, 5379.0, 5479.0, 5473.0, 5388.0, 5538.0, 5448.0, 5723.0, 5505.0, 5294.0, 5445.0, 5661.0, 5565.0, 5456.0, 5269.0, 5559.0, 5387.0, 5626.0, 5491.0, 5667.0, 5326.0, 5358.0, 5378.0, 5615.0, 5318.0, 5689.0, 5644.0, 5605.0, 5669.0, 5588.0, 5722.0, 5463.0, 5350.0, 5556.0, 5408.0, 5301.0 (number of hits: 4)
28	5500	9	1	333	1	5294.0, 5482.0, 5330.0, 5331.0, 5373.0, 5508.0, 5695.0, 5568.0, 5579.0, 5648.0, 5354.0, 5561.0, 5570.0, 5720.0, 5479.0, 5507.0, 5456.0, 5264.0, 5337.0, 5269.0, 5250.0, 5557.0, 5567.0, 5359.0, 5614.0, 5691.0, 5424.0, 5632.0, 5500.0, 5688.0, 5572.0, 5474.0, 5644.0, 5654.0, 5494.0, 5381.0, 5667.0, 5668.0, 5549.0, 5678.0, 5529.0, 5297.0, 5392.0, 5434.0, 5575.0, 5608.0, 5334.0, 5298.0, 5358.0, 5266.0, 5428.0, 5578.0, 5569.0, 5357.0, 5509.0, 5589.0, 5464.0, 5519.0, 5284.0, 5423.0, 5514.0, 5409.0, 5517.0, 5574.0, 5405.0, 5619.0, 5406.0, 5471.0, 5702.0, 5316.0, 5696.0, 5712.0, 5532.0, 5527.0, 5493.0, 5480.0, 5318.0, 5348.0, 5429.0, 5709.0, 5385.0, 5710.0, 5343.0, 5685.0, 5711.0,

						5510.0, 5599.0, 5475.0, 5692.0, 5459.0, 5616.0, 5489.0, 5523.0, 5267.0, 5309.0, 5506.0, 5386.0, 5707.0, 5274.0, 5371.0 (number of hits: 7)
29	5500	9	1	333	1	5599.0, 5516.0, 5282.0, 5491.0, 5483.0, 5311.0, 5254.0, 5724.0, 5494.0, 5486.0, 5552.0, 5650.0, 5722.0, 5467.0, 5503.0, 5718.0, 5376.0, 5595.0, 5554.0, 5298.0, 5523.0, 5426.0, 5629.0, 5604.0, 5696.0, 5546.0, 5618.0, 5478.0, 5329.0, 5515.0, 5458.0, 5303.0, 5709.0, 5488.0, 5346.0, 5314.0, 5639.0, 5429.0, 5693.0, 5712.0, 5669.0, 5561.0, 5450.0, 5255.0, 5487.0, 5640.0, 5350.0, 5485.0, 5461.0, 5646.0, 5431.0, 5589.0, 5454.0, 5707.0, 5636.0, 5418.0, 5258.0, 5358.0, 5484.0, 5424.0, 5615.0, 5412.0, 5275.0, 5318.0, 5689.0, 5666.0, 5565.0, 5566.0, 5341.0, 5560.0, 5257.0, 5634.0, 5256.0, 5497.0, 5308.0, 5420.0, 5281.0, 5692.0, 5533.0, 5399.0, 5684.0, 5694.0, 5445.0, 5581.0, 5564.0, 5489.0, 5380.0, 5321.0, 5697.0, 5508.0, 5495.0, 5659.0, 5352.0, 5570.0, 5355.0, 5468.0, 5586.0, 5273.0, 5265.0, 5410.0 (number of hits: 6)
30	5500	9	1	333	1	5706.0, 5377.0, 5365.0, 5482.0, 5720.0, 5438.0, 5397.0, 5528.0, 5262.0, 5452.0, 5626.0, 5347.0, 5367.0, 5508.0, 5392.0, 5555.0, 5602.0, 5344.0, 5496.0, 5455.0, 5659.0, 5353.0, 5337.0, 5519.0, 5685.0, 5284.0, 5338.0, 5577.0, 5716.0, 5552.0, 5672.0, 5556.0, 5673.0, 5538.0, 5382.0, 5717.0, 5713.0, 5686.0, 5412.0, 5617.0, 5664.0, 5273.0, 5703.0, 5547.0, 5525.0, 5544.0, 5318.0, 5632.0, 5486.0, 5481.0, 5711.0, 5323.0, 5459.0, 5293.0, 5527.0, 5667.0, 5393.0, 5417.0, 5723.0, 5511.0, 5523.0, 5330.0, 5395.0, 5325.0, 5289.0, 5644.0, 5562.0, 5460.0, 5515.0, 5565.0, 5311.0, 5317.0, 5535.0, 5364.0, 5591.0, 5405.0, 5290.0, 5324.0, 5618.0, 5553.0, 5260.0, 5440.0, 5599.0, 5643.0, 5623.0, 5402.0, 5451.0, 5449.0, 5630.0, 5458.0, 5370.0, 5583.0, 5594.0, 5381.0, 5369.0, 5431.0, 5470.0, 5500.0, 5432.0, 5498.0 (number of hits: 4)

5510 MHz, 40 MHz Bandwidth

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1A/1B	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:

5510 MHz, 40 MHz Bandwidth

Table-1A/1B Radar Type 1A/1B Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5510	95	1	558	1
2	5510	83	1	638	1
3	5510	76	1	698	1
4	5510	86	1	618	1
5	5510	61	1	878	1
6	5510	70	1	758	1
7	5510	74	1	718	1
8	5510	68	1	778	1
9	5510	58	1	918	1
10	5510	89	1	598	1
11	5510	57	1	938	1
12	5510	81	1	658	1
13	5510	78	1	678	1
14	5510	63	1	838	1
15	5510	99	1	538	1
16	5510	51	1	1045	1
17	5510	18	1	3004	1
18	5510	23	1	2361	1
19	5510	40	1	1324	1
20	5510	85	1	626	1
21	5510	45	1	1176	1
22	5510	61	1	872	1
23	5510	18	1	3054	1
24	5510	37	1	1462	1
25	5510	20	1	2640	1
26	5510	50	1	1061	1
27	5510	21	1	2530	1
28	5510	55	1	970	1
29	5510	45	1	1173	1
30	5510	29	1	1850	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	5510	25	4.7	204	1
2	5510	24	2.7	216	1
3	5510	26	4.3	183	1
4	5510	26	2.4	188	1
5	5510	29	2.6	159	1
6	5510	27	1	202	1
7	5510	29	1.8	167	1
8	5510	28	3.9	228	1
9	5510	24	2.9	193	1
10	5510	23	1.6	228	1
11	5510	23	4.8	157	1
12	5510	25	3.8	212	1
13	5510	25	1.8	222	1
14	5510	27	3.4	167	1
15	5510	23	3.8	178	1
16	5510	27	4.5	219	1
17	5510	27	3.6	222	1
18	5510	23	4.5	206	1
19	5510	24	5	198	1
20	5510	29	1.1	154	1
21	5510	23	3.5	157	1
22	5510	27	4.7	159	1
23	5510	23	4.6	211	1
24	5510	28	2	226	1
25	5510	26	4.9	227	1
26	5510	27	3.2	216	1
27	5510	28	1.3	206	1
28	5510	25	2.3	177	1
29	5510	29	3	182	1
30	5510	23	2.7	179	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	5510	17	8	236	1
2	5510	17	7.5	460	1
3	5510	17	10	378	1
4	5510	17	8	273	1
5	5510	18	7	488	1
6	5510	16	6.1	310	1
7	5510	17	9.5	421	1
8	5510	18	8.2	342	1
9	5510	18	8.8	332	1
10	5510	17	6.4	345	1
11	5510	16	8.1	440	1
12	5510	18	9.3	488	1
13	5510	18	8.9	272	1
14	5510	16	9	425	1
15	5510	17	6.2	276	1
16	5510	16	6.7	209	1
17	5510	18	6.5	336	1
18	5510	16	7.6	276	1
19	5510	16	8.4	336	1
20	5510	16	9.3	396	1
21	5510	18	7.2	297	1
22	5510	16	8.5	358	1
23	5510	18	7.8	282	1
24	5510	16	8.8	414	1
25	5510	17	6.3	200	1
26	5510	18	6.7	201	1
27	5510	18	7.4	497	1
28	5510	17	7.1	458	1
29	5510	18	9.2	287	1
30	5510	17	9.2	383	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	5510	12	17.8	439	1
2	5510	14	17.4	380	1
3	5510	15	15.8	431	1
4	5510	15	16.8	240	1
5	5510	12	14.3	219	1
6	5510	13	13.3	216	1
7	5510	13	19	374	1
8	5510	12	16.2	472	1
9	5510	13	17.1	467	1
10	5510	15	11.2	239	1
11	5510	12	13.9	460	1
12	5510	15	15.8	437	1
13	5510	16	16.8	474	1
14	5510	15	18.4	455	1
15	5510	14	12.5	358	1
16	5510	16	17.8	262	1
17	5510	15	13.9	282	1
18	5510	15	11	326	1
19	5510	14	16.7	346	1
20	5510	13	16	337	1
21	5510	16	17.1	482	1
22	5510	16	15.3	219	1
23	5510	14	13.5	313	1
24	5510	16	20	264	1
25	5510	16	19.1	451	1
26	5510	16	12.9	403	1
27	5510	12	18.7	211	1
28	5510	12	15.2	322	1
29	5510	14	20	238	1
30	5510	15	12.7	421	1
Detection Percentage: 100 % (>60%)					

Table-5 Radar Type 5 Statistical Performance

Trial #	Fc (MHz)	Detection (1:yes; 0:no)
1	5510	1
2	5510	1
3	5510	1
4	5510	1
5	5510	1
6	5510	1
7	5510	1
8	5510	1
9	5510	1
10	5510	1
11	5497.6	1
12	5495.6	1
13	5492.4	1
14	5496.0	1
15	5494.8	1
16	5495.2	1
17	5495.6	1
18	5494.8	1
19	5496.8	1
20	5496.4	1
21	5522.8	1
22	5522.8	1
23	5525.6	1
24	5522.0	1
25	5524.8	1
26	5524.4	1
27	5522.4	1
28	5522.4	1
29	5524.0	1
30	5523.2	1
Detection Percentage: 100 % (>80%)		

Bin5 Statistics 1

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	13	67.7	1965		1.09261	1
1	3	13	77.5	1595	1618	2.283217	
2	1	13	67.1			3.101505	
3	1	13	79.1			3.659703	
4	2	13	80.2	1469		5.954111	
5	2	13	53.8	1173		6.89033	
6	2	13	68.5	1686		7.953567	
7	2	13	65.9	1963		9.447198	
8	2	13	66.7	1764		10.469654	
9	2	13	89.5	1200		11.947385	

Bin5 Statistics 2

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	8	76.6			0.73855	1
1	3	8	92	1502	1535	0.973551	
2	3	8	78.6	1018	1408	2.377141	
3	3	8	52.8	1202	1482	2.82611	
4	1	8	59.9			4.057953	
5	3	8	79.5	1248	1799	4.610498	
6	2	8	90.3	1780		5.575937	
7	3	8	63.1	1513	1192	6.673132	
8	2	8	56.8	1245		6.951218	
9	2	8	76	1359		8.342471	
10	1	8	70.6			8.598825	
11	2	8	96.3	1141		9.890526	
12	1	8	98.8			10.661208	
13	2	8	85.1	1469		11.296715	

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	14	62.6			0.146507	
1	2	14	71.9	1402		0.949431	
2	1	14	69.4			2.192183	
3	2	14	63.7	1838		2.84091	
4	2	14	77.1	1386		3.183796	
5	2	14	93.4	1681		4.045396	
6	2	14	97.7	1348		5.025898	
7	2	14	96.6	1065		5.654032	
8	1	14	79.3			6.714135	1
9	2	14	94.7	1744		6.94497	
10	3	14	65.8	1325	1929	7.617036	
11	2	14	87.6	1896		8.291871	
12	3	14	86.2	1221	1742	9.253924	
13	2	14	97	1707		9.935281	
14	3	14	76.1	1683	1057	10.829254	
15	2	14	70.1	1340		11.937827	

Bin5 Statistics 4

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	15	91.1	1664		0.259237	
1	2	15	83	1430		1.049445	
2	2	15	89.4	1184		1.507809	
3	1	15	83.5			1.883979	
4	1	15	55.1			2.410072	
5	2	15	93.9	1801		3.008679	
6	1	15	84.2			3.620725	
7	3	15	87.5	1642	1318	4.708559	
8	1	15	84.8			5.00109	
9	3	15	73.3	1258	1106	5.476259	
10	2	15	65.3	1408		6.001755	1
11	1	15	92.4			7.03541	
12	2	15	94.7	1128		7.515787	
13	1	15	73			7.906223	
14	1	15	83			8.587876	
15	2	15	60	1175		9.285863	
16	1	15	94.1			9.895166	
17	1	15	59.5			10.613266	
18	2	15	53.2	1094		11.091348	
19	1	15	100			11.662184	

Bin5 Statistics 5

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	15	60.8	1883		0.056281	
1	1	15	67.3			0.787948	
2	2	15	88.2	1631		1.958538	
3	3	15	59.8	1009	1455	2.169202	
4	2	15	50.8	1112		3.174158	
5	2	15	91.9	1132		3.737252	
6	1	15	54.3			4.235157	
7	2	15	87.2	1153		5.239317	
8	2	15	85.2	1499		5.699078	
9	2	15	66.8	1285		6.431528	1
10	3	15	51.1	1914	1095	6.753362	
11	2	15	63.1	1541		7.933951	
12	2	15	65.3	1828		8.091234	
13	1	15	97.9			8.754591	
14	2	15	96.8	1924		9.786665	
15	2	15	74.2	1223		10.061334	
16	1	15	69.8			11.079512	
17	2	15	69.1	1139		11.794896	

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	13	81.7			0.217671	
1	1	13	87.9			2.26082	
2	3	13	67.9	1991	1079	3.10303	
3	1	13	64.1			4.530202	
4	2	13	80.7	1863		5.253599	
5	1	13	63.6			6.984009	
6	1	13	50.2			7.401396	1
7	3	13	87.6	1720	1309	8.559695	
8	1	13	98.1			9.841518	
9	3	13	85	1345	1887	11.696889	
0	1	13	81.7			0.217671	
1	1	13	87.9			2.26082	
2	3	13	67.9	1991	1079	3.10303	

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	71.5			0.616248	
1	2	14	95.3	1630		1.089886	
2	2	14	79.8	1394		1.962862	
3	1	14	89.7			2.132912	
4	2	14	79.2	1825		3.247796	
5	3	14	98.5	1258	1509	3.82577	
6	2	14	94.5	1237		4.849577	
7	1	14	99.4			5.073825	
8	2	14	89.9	1118		6.017082	1
9	3	14	59	1659	1138	6.559761	
10	1	14	82.5			7.54034	
11	3	14	68.5	1073	1628	8.447946	
12	2	14	96.6	1182		8.818628	
13	2	14	68.8	1450		9.243676	
14	1	14	69.4			10.052757	
15	3	14	79.3	1495	1393	11.13447	
16	1	14	57.1			11.434188	

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	10	62.9	1481	1877	0.492232	
1	3	10	81.6	1067	1743	1.104092	
2	3	10	82.2	1373	1833	2.98579	
3	1	10	76.4			3.434281	
4	2	10	55.3	1752		4.393669	
5	2	10	50.7	1025		5.291785	
6	1	10	52.7			6.779981	1
7	2	10	97.6	1227		7.652596	
8	3	10	64.1	1300	1270	8.524874	
9	2	10	73.8	1276		9.69412	
10	1	10	52.2			10.856949	
11	2	10	56.2	1290		11.244649	

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	14	73.8	1400	1252	0.351987	1
1	2	14	70.9	1114		1.347121	
2	1	14	99.7			1.907254	
3	2	14	79.6	1168		3.447084	
4	1	14	85			4.423734	
5	2	14	65.6	1860		4.720518	
6	2	14	92.2	1614		5.938814	
7	2	14	60.4	1829		6.73769	
8	2	14	58.4	1619		8.245091	
9	2	14	67.3	1059		8.603306	
10	2	14	59.2	1140		9.797566	
11	2	14	71.8	1960		10.556568	
12	1	14	89.8			11.659037	

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	16	95.5	1461	1328	0.682252	1
1	2	16	90.4	1386		2.192943	
2	2	16	91.6	1526		2.773395	
3	3	16	92.4	1706	1829	3.932601	
4	1	16	51.1			5.882782	
5	2	16	97.6	1460		6.083137	
6	2	16	63.9	1743		7.773052	
7	3	16	55.5	1416	1298	8.82977	
8	2	16	77.2	1452		10.69506	
9	1	16	65.3			11.572929	

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	19	61.3	1294		0.604446	1
1	3	19	64.4	1003	1070	1.124632	
2	2	19	92.8	1529		2.609504	
3	3	19	69.9	1732	1137	3.694768	
4	3	19	89.2	1732	1648	4.489816	
5	1	19	98.9			5.256368	
6	1	19	93.3			6.311064	
7	2	19	57.7	1006		7.127481	
8	3	19	87.8	1177	1753	8.530698	
9	1	19	90.1			9.243192	
10	2	19	69.1	1296		10.036584	
11	1	19	62.3			11.530106	

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	14	85	1218	1154	0.49183	1
1	1	14	60.8			1.357863	
2	2	14	66.6	1953		2.314926	
3	2	14	54.4	1893		3.657115	
4	1	14	73			4.619222	
5	3	14	71.2	1698	1687	5.723254	
6	2	14	98	1898		6.804663	
7	1	14	63.1			7.961526	
8	1	14	79			8.455965	
9	3	14	85.4	1526	1037	9.647478	
10	2	14	91.2	1529		10.227566	
11	2	14	85.3	1793		11.046703	

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	6	90.5	1399		0.079839	0
1	1	6	71.6			2.386118	
2	2	6	53.9	1914		3.238842	
3	2	6	69.7	1077		4.633974	
4	1	6	73.8			5.883393	
5	3	6	67.9	1290	1198	6.034477	
6	2	6	65.4	1889		7.40876	
7	2	6	68.6	1212		8.478575	
8	3	6	83.4	1869	1000	10.345369	
9	1	6	81.9			11.952583	

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	15	58.4	1661		0.38638	1
1	2	15	97.5	1536		1.446913	
2	1	15	87			2.407907	
3	3	15	65.9	1901	1376	3.192615	
4	2	15	79.3	1321		3.887688	
5	2	15	93.9	1339		4.400474	
6	2	15	95.9	1258		5.636505	
7	1	15	58.6			6.535012	
8	2	15	90.3	1052		7.574713	
9	2	15	89.3	1931		7.831123	
10	2	15	57.6	1464		9.315163	
11	1	15	97.3			9.829515	
12	1	15	62.4			10.684342	
13	1	15	60.1			11.708321	

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	12	93.9	1971		0.435885	1
1	3	12	87.5	1338	1076	1.026822	
2	3	12	79.6	1620	1264	2.430897	
3	2	12	84.9	1653		2.935592	
4	1	12	69			4.241466	
5	3	12	67	1173	1283	4.631039	
6	1	12	64.1			5.834557	
7	2	12	94.8	1997		6.482178	
8	3	12	67.9	1391	1443	7.085668	
9	2	12	67.5	1949		8.55283	
10	1	12	84.7			8.74771	
11	2	12	73.1	1883		9.689818	
12	3	12	99.2	1557	1370	10.5349	
13	2	12	74.4	1816		11.539448	

Bin5 Statistics 16

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	13	92			0.663645	1
1	1	13	87.4			1.111466	
2	3	13	95.2	1013	1413	1.984685	
3	3	13	81.6	1168	1992	2.927637	
4	2	13	52.6	1578		3.439452	
5	3	13	57.1	1804	1669	3.975314	
6	1	13	85.1			4.997024	
7	2	13	50.2	1437		5.380043	
8	2	13	87.2	1089		6.477272	
9	3	13	58.6	1437	1192	7.145145	
10	2	13	80.8	1642		7.9301	
11	3	13	55.9	1110	1948	8.462977	
12	2	13	51.4	1630		9.175827	
13	1	13	91.7			10.140219	
14	2	13	56.6	1789		10.526301	
15	2	13	93.4	1989		11.854342	

Bin5 Statistics 17

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	14	81.8			0.34815	
1	1	14	93.1			1.392847	
2	2	14	56.9	1601		1.819212	
3	1	14	98.9			3.057395	
4	2	14	93.3	1659		3.696713	
5	2	14	89.1	1064		4.273081	
6	2	14	56	1473		5.098615	
7	3	14	80.4	1741	1631	5.971856	1
8	2	14	77.4	1132		7.133591	
9	2	14	76.7	1816		7.578235	
10	3	14	53.1	1905	1840	8.728437	
11	2	14	92.9	1917		9.019645	
12	2	14	85.6	1982		10.218659	
13	2	14	61.2	1392		11.022827	
14	2	14	78.5	1196		11.771495	

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	65.5	1317		0.835075	
1	2	12	70.1	1937		2.599282	
2	2	12	65.9	1761		3.685084	
3	2	12	81.5	1786		4.574118	
4	1	12	57.7			5.994734	1
5	3	12	59.2	1849	1126	7.341898	
6	3	12	67.7	1674	1084	8.318052	
7	3	12	52.3	1911	1579	10.276628	
8	1	12	84.3			10.991647	

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	17	56.6	1231	1112	0.874771	
1	2	17	80.3	1124		2.407242	
2	1	17	65.5			3.885511	
3	2	17	95.4	1139		4.235843	
4	3	17	94.3	1059	1520	6.443244	1
5	1	17	80.8			7.630105	
6	3	17	78.3	1904	1210	8.651299	
7	2	17	64.6	1518		10.441423	
8	2	17	53	1940		11.517838	

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	16	53.8	1474		0.614742	
1	3	16	61.3	1170	1733	0.913765	
2	1	16	86.8			1.597849	
3	2	16	91.2	1205		2.109177	
4	2	16	91.5	1052		2.767449	
5	1	16	72.2			3.402493	
6	2	16	58.4	1692		4.064763	
7	2	16	91	1646		4.819905	
8	2	16	87.5	1909		5.731637	
9	1	16	72.5			6.284904	1
10	3	16	71.6	1130	1188	7.302995	
11	1	16	95.8			7.386977	
12	1	16	94.2			8.555474	
13	2	16	96.1	1024		9.090067	
14	1	16	56.1			9.878363	
15	2	16	63	1622		10.035607	
16	1	16	87.2			11.216879	
17	1	16	61.2			11.350533	

Bin5 Statistics 21

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	18	50.2	1468	1283	0.304453	
1	3	18	69.1	1817	1893	1.402424	
2	3	18	84.7	1703	1484	2.302014	
3	3	18	54.4	1210	1751	3.160791	
4	1	18	63.9			3.677913	
5	3	18	78.1	1588	1351	4.036972	
6	2	18	97.8	1128		5.09339	
7	1	18	61.1			5.601258	1
8	3	18	98.8	1800	1765	6.840151	
9	1	18	56.2			7.642678	
10	3	18	62.5	1386	1280	8.016058	
11	2	18	64.9	1336		8.830329	
12	2	18	87.3	1507		10.057764	
13	1	18	65.6			10.445181	
14	1	18	69.8			11.57059	

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	18	70.1			0.681544	
1	1	18	58.8			1.465031	
2	2	18	62.9	1343		3.411499	
3	3	18	72.6	1378	1140	4.654983	
4	1	18	96.1			5.321102	
5	2	18	72.9	1987		6.827941	1
6	2	18	55.7	1993		7.550677	
7	2	18	99.7	1137		9.164621	
8	2	18	85.4	1668		9.707617	
9	3	18	74.5	1681	1284	10.957697	

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	11	72.4	1969		0.631993	
1	2	11	63.2	1788		0.971352	
2	2	11	70.2	1710		1.973616	
3	1	11	55.3			2.423086	
4	2	11	50.9	1978		3.374564	
5	3	11	85.7	1659	1411	4.051939	
6	1	11	50.2			4.485951	
7	2	11	91.9	1747		5.087336	
8	2	11	80.8	1324		5.762176	1
9	3	11	51.5	1633	1404	6.529181	
10	2	11	82.4	1977		7.31357	
11	1	11	51.4			8.278892	
12	2	11	62.3	1290		8.518707	
13	1	11	80.6			9.857245	
14	2	11	72	1390		10.073709	
15	1	11	66.5			10.591208	
16	2	11	63.9	1598		11.501806	

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	20	89.8	1114		0.412047	
1	2	20	59.9	1167		1.038543	
2	1	20	90.8			1.949359	
3	2	20	58.4	1941		2.786031	
4	1	20	97.6			3.191896	
5	1	20	95.4			4.101268	
6	2	20	72.7	1902		4.469292	
7	3	20	72.4	1964	1345	5.165738	
8	2	20	51.5	1769		5.98857	1
9	2	20	57.3	1423		6.797368	
10	2	20	97.5	1455		7.697375	
11	2	20	83.2	1104		8.440049	
12	3	20	68.3	1999	1274	8.801163	
13	3	20	83.2	1250	1268	9.86324	
14	2	20	94.9	1260		10.312699	
15	3	20	81.7	1057	1232	10.997115	
16	2	20	74.9	1927		11.712792	

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	84.4	1603		0.252215	
1	3	13	93	1155	1736	2.542977	
2	3	13	55.9	1274	1459	3.828028	
3	1	13	65.7			5.134335	1
4	1	13	91.9			7.284187	
5	2	13	72.4	1112		7.97387	
6	3	13	52.7	1234	1613	9.466597	
7	2	13	88.6	1783		11.047964	

Bin5 Statistics 26

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	14	70.1	1265	1815	0.927459	1
1	2	14	74.2	1335		1.82847	
2	1	14	84.9			2.996226	
3	2	14	83.3	1457		4.879389	
4	2	14	50.4	1281		6.317503	
5	1	14	92.9			7.226747	
6	1	14	78.8			8.268523	
7	3	14	58.2	1855	1185	9.367841	
8	2	14	68.2	1042		10.811746	

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	19	79.9	1006		0.232597	1
1	2	19	51.6	1736		1.305732	
2	3	19	52.2	1213	1458	2.263033	
3	2	19	66.9	1412		2.98665	
4	1	19	79.8			3.757152	
5	2	19	51.5	1616		5.25706	
6	2	19	56.4	1674		5.894244	
7	2	19	56.1	1808		6.796395	
8	3	19	64.9	1944	1288	7.714222	
9	3	19	74.5	1979	1399	8.675759	
10	2	19	63.1	1611		10.113587	
11	3	19	87.1	1952	1278	10.528319	
12	2	19	55.9	1877		11.515846	

Bin5 Statistics 28

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	19	81.2	1687		0.319127	
1	2	19	91	1740		2.21772	
2	3	19	62.2	1198	1389	3.429296	
3	3	19	94.2	1134	1858	4.901034	
4	1	19	55.8			6.027055	1
5	2	19	92.9	1828		7.585	
6	1	19	85.2			9.296508	
7	1	19	71.2			10.262481	
8	1	19	60.5			11.990787	

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	15	66.7			0.042727	
1	1	15	78.7			1.690665	
2	2	15	67.7	1502		2.53669	
3	1	15	97.1			3.577858	
4	2	15	58.3	1733		4.264062	
5	1	15	82.4			4.926204	
6	2	15	98.1	1720		5.830641	1
7	3	15	64.4	1875	1135	7.288806	
8	3	15	65.2	1910	1325	7.642497	
9	2	15	95.3	1868		8.994367	
10	2	15	71.7	1967		9.690204	
11	3	15	90.5	1572	1165	11.018476	
12	1	15	87.9			11.892981	

Bin5 Statistics 30

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	17	73.1	1314	1033	0.125574	
1	2	17	76.7	1581		2.213668	
2	3	17	98.1	1101	1574	4.205094	
3	1	17	64.8			5.50101	
4	2	17	74.3	1650		6.169715	1
5	1	17	52.5			7.583769	
6	3	17	75.1	1939	1220	9.889977	
7	2	17	63.8	1157		10.972025	

Table-6 Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)	Hopping Sequence
1	5510	9	1	333	1	5514.0, 5561.0, 5466.0, 5669.0, 5529.0, 5506.0, 5656.0, 5326.0, 5665.0, 5699.0, 5432.0, 5684.0, 5389.0, 5250.0, 5261.0, 5435.0, 5447.0, 5316.0, 5320.0, 5512.0, 5575.0, 5588.0, 5528.0, 5541.0, 5603.0, 5666.0, 5423.0, 5606.0, 5468.0, 5268.0, 5309.0, 5620.0, 5416.0, 5367.0, 5331.0, 5441.0, 5640.0, 5475.0, 5573.0, 5560.0, 5391.0, 5284.0, 5298.0, 5686.0, 5711.0, 5385.0, 5272.0, 5679.0, 5504.0, 5503.0, 5295.0, 5548.0, 5566.0, 5719.0, 5589.0, 5638.0, 5542.0, 5407.0, 5315.0, 5283.0, 5382.0, 5311.0, 5651.0, 5547.0, 5611.0, 5689.0, 5474.0, 5517.0, 5694.0, 5327.0, 5551.0, 5381.0, 5668.0, 5454.0, 5264.0, 5600.0, 5467.0, 5457.0, 5395.0, 5267.0, 5567.0, 5496.0, 5459.0, 5480.0, 5362.0, 5448.0, 5653.0, 5681.0, 5411.0, 5597.0, 5433.0, 5405.0, 5352.0, 5301.0, 5278.0, 5355.0, 5612.0, 5260.0, 5536.0, 5333.0 (number of hits: 9)
2	5510	9	1	333	1	5441.0, 5546.0, 5505.0, 5510.0, 5614.0, 5472.0, 5533.0, 5489.0, 5396.0, 5719.0, 5279.0, 5333.0, 5406.0, 5612.0, 5266.0, 5593.0, 5308.0, 5615.0, 5353.0, 5453.0, 5450.0, 5295.0, 5625.0, 5360.0, 5663.0, 5668.0, 5326.0, 5569.0, 5541.0, 5595.0, 5495.0, 5437.0, 5346.0, 5488.0, 5534.0, 5272.0, 5515.0, 5364.0, 5422.0, 5574.0, 5417.0, 5480.0, 5570.0, 5622.0, 5491.0, 5468.0, 5633.0, 5473.0, 5334.0, 5707.0, 5415.0, 5600.0, 5445.0, 5680.0, 5438.0, 5609.0, 5652.0, 5379.0, 5690.0, 5448.0, 5714.0, 5311.0, 5584.0, 5250.0, 5261.0, 5621.0, 5712.0, 5469.0, 5529.0, 5442.0, 5696.0, 5512.0, 5277.0, 5447.0, 5273.0, 5582.0, 5565.0, 5465.0, 5632.0, 5275.0, 5361.0, 5637.0, 5639.0, 5362.0, 5462.0, 5411.0, 5675.0, 5661.0, 5689.0, 5321.0, 5618.0, 5324.0, 5629.0, 5358.0, 5251.0, 5518.0, 5293.0, 5509.0, 5604.0, 5303.0 (number of hits: 9)
3	5510	9	1	333	1	5492.0, 5475.0, 5657.0, 5624.0, 5615.0, 5435.0, 5299.0, 5460.0, 5688.0, 5397.0, 5642.0, 5417.0, 5495.0, 5526.0, 5676.0, 5260.0, 5456.0, 5490.0, 5481.0, 5506.0, 5679.0, 5702.0, 5301.0, 5552.0, 5568.0, 5297.0, 5388.0, 5545.0, 5710.0, 5375.0, 5519.0, 5355.0, 5498.0, 5352.0, 5270.0, 5304.0, 5625.0, 5620.0, 5528.0, 5483.0, 5678.0, 5393.0, 5594.0, 5696.0, 5600.0, 5366.0, 5722.0, 5580.0, 5447.0, 5487.0, 5674.0, 5512.0, 5489.0, 5320.0, 5373.0, 5295.0, 5476.0, 5264.0, 5336.0, 5467.0,

						5464.0, 5338.0, 5520.0, 5593.0, 5616.0, 5317.0, 5369.0, 5411.0, 5250.0, 5698.0, 5571.0, 5394.0, 5275.0, 5262.0, 5349.0, 5278.0, 5711.0, 5437.0, 5716.0, 5608.0, 5534.0, 5267.0, 5605.0, 5675.0, 5577.0, 5403.0, 5314.0, 5331.0, 5432.0, 5521.0, 5253.0, 5667.0, 5408.0, 5321.0, 5617.0, 5589.0, 5478.0, 5570.0, 5501.0, 5354.0 (number of hits: 12)
4	5510	9	1	333	1	5308.0, 5329.0, 5534.0, 5524.0, 5309.0, 5527.0, 5334.0, 5512.0, 5520.0, 5711.0, 5318.0, 5715.0, 5338.0, 5392.0, 5435.0, 5585.0, 5277.0, 5543.0, 5523.0, 5510.0, 5672.0, 5441.0, 5470.0, 5460.0, 5686.0, 5311.0, 5424.0, 5666.0, 5451.0, 5360.0, 5270.0, 5300.0, 5613.0, 5622.0, 5261.0, 5321.0, 5642.0, 5591.0, 5281.0, 5496.0, 5377.0, 5514.0, 5656.0, 5428.0, 5633.0, 5379.0, 5457.0, 5682.0, 5390.0, 5293.0, 5267.0, 5297.0, 5342.0, 5684.0, 5357.0, 5519.0, 5344.0, 5607.0, 5697.0, 5558.0, 5660.0, 5394.0, 5362.0, 5325.0, 5571.0, 5404.0, 5368.0, 5471.0, 5406.0, 5438.0, 5468.0, 5559.0, 5598.0, 5384.0, 5631.0, 5612.0, 5677.0, 5491.0, 5271.0, 5412.0, 5484.0, 5614.0, 5289.0, 5703.0, 5592.0, 5508.0, 5709.0, 5489.0, 5636.0, 5502.0, 5602.0, 5455.0, 5689.0, 5302.0, 5694.0, 5388.0, 5513.0, 5618.0, 5707.0, 5675.0 (number of hits: 13)
5	5510	9	1	333	1	5613.0, 5527.0, 5548.0, 5623.0, 5301.0, 5480.0, 5627.0, 5542.0, 5427.0, 5423.0, 5514.0, 5683.0, 5285.0, 5425.0, 5552.0, 5630.0, 5509.0, 5580.0, 5449.0, 5291.0, 5417.0, 5332.0, 5362.0, 5601.0, 5590.0, 5320.0, 5533.0, 5543.0, 5643.0, 5333.0, 5653.0, 5260.0, 5640.0, 5678.0, 5400.0, 5292.0, 5302.0, 5268.0, 5279.0, 5415.0, 5402.0, 5622.0, 5624.0, 5516.0, 5635.0, 5518.0, 5324.0, 5252.0, 5535.0, 5401.0, 5629.0, 5597.0, 5327.0, 5562.0, 5258.0, 5541.0, 5309.0, 5356.0, 5286.0, 5351.0, 5644.0, 5426.0, 5558.0, 5256.0, 5515.0, 5615.0, 5523.0, 5603.0, 5668.0, 5355.0, 5316.0, 5666.0, 5610.0, 5369.0, 5328.0, 5421.0, 5529.0, 5681.0, 5390.0, 5612.0, 5701.0, 5416.0, 5556.0, 5261.0, 5440.0, 5373.0, 5654.0, 5437.0, 5338.0, 5717.0, 5306.0, 5545.0, 5697.0, 5621.0, 5381.0, 5319.0, 5682.0, 5626.0, 5346.0, 5634.0 (number of hits: 8)
6	5510	9	1	333	1	5408.0, 5562.0, 5532.0, 5252.0, 5456.0, 5707.0, 5339.0, 5386.0, 5323.0, 5517.0, 5364.0, 5366.0, 5504.0, 5346.0, 5438.0, 5257.0, 5329.0, 5688.0, 5649.0, 5272.0, 5582.0, 5347.0, 5493.0, 5302.0, 5268.0, 5695.0, 5534.0, 5664.0, 5443.0, 5508.0, 5344.0, 5613.0, 5721.0, 5404.0, 5435.0, 5340.0, 5342.0, 5331.0, 5355.0, 5324.0,

						5681.0, 5643.0, 5651.0, 5675.0, 5468.0, 5601.0, 5535.0, 5636.0, 5398.0, 5593.0, 5495.0, 5374.0, 5405.0, 5475.0, 5624.0, 5295.0, 5288.0, 5569.0, 5542.0, 5282.0, 5466.0, 5658.0, 5654.0, 5281.0, 5442.0, 5482.0, 5689.0, 5328.0, 5457.0, 5553.0, 5250.0, 5631.0, 5609.0, 5672.0, 5437.0, 5420.0, 5494.0, 5359.0, 5491.0, 5412.0, 5610.0, 5500.0, 5322.0, 5522.0, 5382.0, 5598.0, 5399.0, 5274.0, 5634.0, 5550.0, 5678.0, 5645.0, 5365.0, 5657.0, 5628.0, 5528.0, 5278.0, 5372.0, 5361.0, 5273.0 (number of hits: 10)
7	5510	9	1	333	1	5315.0, 5660.0, 5468.0, 5375.0, 5584.0, 5273.0, 5352.0, 5477.0, 5267.0, 5360.0, 5657.0, 5443.0, 5509.0, 5516.0, 5486.0, 5464.0, 5685.0, 5422.0, 5577.0, 5638.0, 5397.0, 5439.0, 5680.0, 5606.0, 5644.0, 5642.0, 5304.0, 5716.0, 5431.0, 5597.0, 5278.0, 5292.0, 5550.0, 5624.0, 5433.0, 5327.0, 5626.0, 5367.0, 5615.0, 5683.0, 5442.0, 5470.0, 5495.0, 5391.0, 5423.0, 5370.0, 5634.0, 5358.0, 5378.0, 5406.0, 5602.0, 5586.0, 5418.0, 5551.0, 5703.0, 5557.0, 5563.0, 5317.0, 5272.0, 5396.0, 5480.0, 5485.0, 5447.0, 5436.0, 5542.0, 5533.0, 5343.0, 5571.0, 5573.0, 5285.0, 5545.0, 5341.0, 5275.0, 5536.0, 5553.0, 5567.0, 5578.0, 5463.0, 5269.0, 5357.0, 5687.0, 5326.0, 5641.0, 5564.0, 5580.0, 5434.0, 5469.0, 5330.0, 5507.0, 5424.0, 5366.0, 5530.0, 5265.0, 5663.0, 5651.0, 5493.0, 5253.0, 5666.0, 5314.0, 5259.0 (number of hits: 5)
8	5510	9	1	333	1	5432.0, 5418.0, 5460.0, 5575.0, 5354.0, 5543.0, 5421.0, 5337.0, 5441.0, 5507.0, 5298.0, 5449.0, 5523.0, 5479.0, 5692.0, 5393.0, 5413.0, 5705.0, 5495.0, 5545.0, 5666.0, 5593.0, 5550.0, 5539.0, 5367.0, 5561.0, 5690.0, 5586.0, 5331.0, 5634.0, 5344.0, 5563.0, 5303.0, 5514.0, 5380.0, 5317.0, 5715.0, 5478.0, 5646.0, 5588.0, 5412.0, 5535.0, 5722.0, 5374.0, 5293.0, 5534.0, 5307.0, 5463.0, 5323.0, 5623.0, 5391.0, 5320.0, 5355.0, 5672.0, 5501.0, 5305.0, 5506.0, 5568.0, 5616.0, 5490.0, 5556.0, 5564.0, 5723.0, 5430.0, 5615.0, 5251.0, 5346.0, 5671.0, 5286.0, 5438.0, 5285.0, 5445.0, 5596.0, 5366.0, 5311.0, 5530.0, 5440.0, 5679.0, 5396.0, 5651.0, 5485.0, 5508.0, 5663.0, 5577.0, 5678.0, 5259.0, 5299.0, 5499.0, 5308.0, 5423.0, 5697.0, 5339.0, 5333.0, 5700.0, 5658.0, 5668.0, 5433.0, 5614.0, 5590.0, 5446.0 (number of hits: 9)
9	5510	9	1	333	1	5491.0, 5255.0, 5502.0, 5641.0, 5524.0, 5311.0, 5593.0, 5535.0, 5403.0, 5646.0, 5584.0, 5565.0, 5672.0, 5295.0, 5478.0, 5635.0, 5477.0, 5546.0, 5470.0, 5461.0,

						5265.0, 5677.0, 5545.0, 5674.0, 5548.0, 5462.0, 5413.0, 5374.0, 5626.0, 5485.0, 5456.0, 5368.0, 5609.0, 5649.0, 5528.0, 5441.0, 5338.0, 5664.0, 5561.0, 5387.0, 5618.0, 5665.0, 5360.0, 5367.0, 5562.0, 5715.0, 5396.0, 5701.0, 5651.0, 5269.0, 5300.0, 5703.0, 5606.0, 5585.0, 5616.0, 5698.0, 5445.0, 5509.0, 5544.0, 5447.0, 5278.0, 5559.0, 5530.0, 5297.0, 5567.0, 5422.0, 5489.0, 5349.0, 5256.0, 5615.0, 5468.0, 5505.0, 5437.0, 5476.0, 5607.0, 5379.0, 5619.0, 5370.0, 5696.0, 5519.0, 5366.0, 5599.0, 5423.0, 5576.0, 5294.0, 5290.0, 5520.0, 5339.0, 5573.0, 5594.0, 5275.0, 5391.0, 5343.0, 5554.0, 5398.0, 5515.0, 5536.0, 5274.0, 5286.0, 5586.0 (number of hits: 9)
10	5510	9	1	333	1	5568.0, 5376.0, 5472.0, 5548.0, 5350.0, 5640.0, 5360.0, 5488.0, 5291.0, 5656.0, 5482.0, 5554.0, 5518.0, 5422.0, 5526.0, 5675.0, 5495.0, 5289.0, 5494.0, 5449.0, 5627.0, 5250.0, 5712.0, 5705.0, 5415.0, 5574.0, 5389.0, 5333.0, 5270.0, 5299.0, 5434.0, 5565.0, 5493.0, 5259.0, 5420.0, 5281.0, 5523.0, 5531.0, 5579.0, 5324.0, 5464.0, 5514.0, 5382.0, 5620.0, 5407.0, 5459.0, 5446.0, 5628.0, 5314.0, 5662.0, 5540.0, 5703.0, 5468.0, 5274.0, 5429.0, 5524.0, 5556.0, 5701.0, 5428.0, 5279.0, 5379.0, 5623.0, 5255.0, 5443.0, 5433.0, 5490.0, 5297.0, 5689.0, 5463.0, 5384.0, 5719.0, 5315.0, 5633.0, 5411.0, 5539.0, 5567.0, 5552.0, 5334.0, 5549.0, 5515.0, 5405.0, 5635.0, 5534.0, 5710.0, 5550.0, 5410.0, 5636.0, 5720.0, 5347.0, 5546.0, 5292.0, 5406.0, 5708.0, 5683.0, 5688.0, 5258.0, 5669.0, 5435.0, 5695.0, 5427.0 (number of hits: 10)
11	5510	9	1	333	1	5335.0, 5509.0, 5651.0, 5336.0, 5619.0, 5544.0, 5712.0, 5461.0, 5525.0, 5417.0, 5427.0, 5480.0, 5370.0, 5257.0, 5318.0, 5382.0, 5317.0, 5657.0, 5518.0, 5574.0, 5572.0, 5604.0, 5521.0, 5297.0, 5262.0, 5476.0, 5529.0, 5610.0, 5565.0, 5314.0, 5717.0, 5265.0, 5716.0, 5475.0, 5558.0, 5629.0, 5654.0, 5478.0, 5608.0, 5472.0, 5381.0, 5539.0, 5259.0, 5659.0, 5652.0, 5428.0, 5329.0, 5431.0, 5467.0, 5649.0, 5279.0, 5274.0, 5355.0, 5372.0, 5653.0, 5512.0, 5551.0, 5325.0, 5437.0, 5434.0, 5361.0, 5359.0, 5701.0, 5612.0, 5408.0, 5338.0, 5684.0, 5570.0, 5583.0, 5433.0, 5418.0, 5641.0, 5639.0, 5571.0, 5711.0, 5674.0, 5362.0, 5668.0, 5300.0, 5424.0, 5555.0, 5622.0, 5561.0, 5392.0, 5273.0, 5429.0, 5474.0, 5600.0, 5347.0, 5540.0, 5662.0, 5482.0, 5573.0, 5488.0, 5365.0, 5609.0, 5500.0, 5705.0, 5493.0, 5646.0 (number of hits: 8)

12	5510	9	1	333	1	5613.0, 5516.0, 5440.0, 5411.0, 5402.0, 5403.0, 5273.0, 5639.0, 5301.0, 5674.0, 5322.0, 5414.0, 5293.0, 5370.0, 5340.0, 5545.0, 5433.0, 5426.0, 5561.0, 5371.0, 5681.0, 5715.0, 5466.0, 5310.0, 5421.0, 5443.0, 5298.0, 5637.0, 5520.0, 5659.0, 5277.0, 5690.0, 5595.0, 5349.0, 5558.0, 5586.0, 5644.0, 5296.0, 5386.0, 5568.0, 5664.0, 5509.0, 5617.0, 5678.0, 5578.0, 5316.0, 5502.0, 5299.0, 5579.0, 5366.0, 5583.0, 5609.0, 5397.0, 5675.0, 5375.0, 5374.0, 5633.0, 5704.0, 5477.0, 5631.0, 5390.0, 5551.0, 5667.0, 5510.0, 5544.0, 5680.0, 5346.0, 5587.0, 5315.0, 5696.0, 5266.0, 5511.0, 5272.0, 5415.0, 5364.0, 5599.0, 5684.0, 5700.0, 5459.0, 5327.0, 5714.0, 5353.0, 5525.0, 5460.0, 5685.0, 5280.0, 5368.0, 5632.0, 5357.0, 5325.0, 5288.0, 5307.0, 5705.0, 5412.0, 5279.0, 5326.0, 5591.0, 5469.0, 5257.0, 5335.0 (number of hits: 7)
13	5510	9	1	333	1	5369.0, 5448.0, 5640.0, 5653.0, 5254.0, 5711.0, 5486.0, 5287.0, 5441.0, 5418.0, 5587.0, 5253.0, 5616.0, 5434.0, 5555.0, 5447.0, 5292.0, 5594.0, 5410.0, 5681.0, 5556.0, 5585.0, 5546.0, 5452.0, 5503.0, 5717.0, 5475.0, 5493.0, 5291.0, 5511.0, 5460.0, 5714.0, 5348.0, 5438.0, 5485.0, 5683.0, 5600.0, 5411.0, 5491.0, 5709.0, 5700.0, 5476.0, 5626.0, 5384.0, 5361.0, 5716.0, 5478.0, 5472.0, 5530.0, 5316.0, 5311.0, 5655.0, 5712.0, 5563.0, 5611.0, 5584.0, 5425.0, 5684.0, 5388.0, 5654.0, 5474.0, 5613.0, 5409.0, 5278.0, 5606.0, 5500.0, 5279.0, 5505.0, 5360.0, 5265.0, 5561.0, 5426.0, 5549.0, 5552.0, 5285.0, 5706.0, 5514.0, 5541.0, 5593.0, 5376.0, 5392.0, 5547.0, 5397.0, 5305.0, 5656.0, 5260.0, 5334.0, 5713.0, 5283.0, 5557.0, 5402.0, 5532.0, 5589.0, 5692.0, 5569.0, 5567.0, 5468.0, 5424.0, 5480.0, 5458.0 (number of hits: 7)
14	5510	9	1	333	1	5385.0, 5686.0, 5376.0, 5489.0, 5388.0, 5515.0, 5350.0, 5681.0, 5617.0, 5539.0, 5467.0, 5580.0, 5683.0, 5386.0, 5314.0, 5340.0, 5572.0, 5579.0, 5258.0, 5477.0, 5613.0, 5473.0, 5458.0, 5571.0, 5662.0, 5502.0, 5671.0, 5698.0, 5607.0, 5605.0, 5390.0, 5406.0, 5492.0, 5637.0, 5724.0, 5583.0, 5339.0, 5345.0, 5709.0, 5459.0, 5413.0, 5267.0, 5279.0, 5673.0, 5335.0, 5259.0, 5432.0, 5313.0, 5456.0, 5664.0, 5499.0, 5290.0, 5373.0, 5536.0, 5455.0, 5407.0, 5447.0, 5448.0, 5685.0, 5668.0, 5694.0, 5391.0, 5687.0, 5341.0, 5343.0, 5389.0, 5667.0, 5640.0, 5615.0, 5275.0, 5435.0, 5440.0, 5674.0, 5405.0, 5608.0, 5700.0, 5557.0, 5286.0, 5699.0, 5271.0, 5442.0, 5436.0, 5254.0, 5354.0, 5422.0,

						5518.0, 5296.0, 5334.0, 5538.0, 5601.0, 5411.0, 5663.0, 5317.0, 5547.0, 5507.0, 5672.0, 5585.0, 5606.0, 5336.0, 5678.0 (number of hits: 6)
15	5510	9	1	333	1	5316.0, 5640.0, 5451.0, 5311.0, 5490.0, 5708.0, 5681.0, 5616.0, 5613.0, 5565.0, 5642.0, 5577.0, 5707.0, 5555.0, 5578.0, 5597.0, 5430.0, 5647.0, 5673.0, 5601.0, 5297.0, 5638.0, 5697.0, 5615.0, 5263.0, 5628.0, 5464.0, 5594.0, 5449.0, 5386.0, 5566.0, 5669.0, 5260.0, 5483.0, 5401.0, 5487.0, 5691.0, 5300.0, 5468.0, 5329.0, 5706.0, 5581.0, 5257.0, 5369.0, 5374.0, 5331.0, 5426.0, 5375.0, 5437.0, 5407.0, 5607.0, 5351.0, 5596.0, 5569.0, 5402.0, 5395.0, 5278.0, 5524.0, 5388.0, 5574.0, 5292.0, 5423.0, 5453.0, 5273.0, 5633.0, 5276.0, 5289.0, 5312.0, 5299.0, 5428.0, 5352.0, 5281.0, 5347.0, 5274.0, 5689.0, 5265.0, 5652.0, 5668.0, 5482.0, 5658.0, 5383.0, 5408.0, 5336.0, 5507.0, 5319.0, 5653.0, 5591.0, 5363.0, 5521.0, 5409.0, 5712.0, 5522.0, 5258.0, 5558.0, 5502.0, 5466.0, 5568.0, 5592.0, 5412.0, 5698.0 (number of hits: 6)
16	5510	9	1	333	1	5657.0, 5683.0, 5298.0, 5712.0, 5517.0, 5322.0, 5566.0, 5459.0, 5498.0, 5412.0, 5486.0, 5465.0, 5372.0, 5376.0, 5450.0, 5552.0, 5324.0, 5685.0, 5344.0, 5652.0, 5545.0, 5671.0, 5605.0, 5696.0, 5470.0, 5375.0, 5492.0, 5554.0, 5709.0, 5267.0, 5513.0, 5608.0, 5251.0, 5522.0, 5332.0, 5328.0, 5389.0, 5713.0, 5419.0, 5555.0, 5455.0, 5414.0, 5339.0, 5329.0, 5682.0, 5704.0, 5366.0, 5670.0, 5476.0, 5607.0, 5710.0, 5613.0, 5641.0, 5303.0, 5467.0, 5533.0, 5692.0, 5503.0, 5723.0, 5373.0, 5436.0, 5677.0, 5358.0, 5416.0, 5300.0, 5401.0, 5715.0, 5309.0, 5534.0, 5678.0, 5676.0, 5374.0, 5402.0, 5697.0, 5499.0, 5509.0, 5514.0, 5531.0, 5681.0, 5388.0, 5320.0, 5434.0, 5578.0, 5705.0, 5365.0, 5463.0, 5564.0, 5444.0, 5312.0, 5273.0, 5343.0, 5665.0, 5254.0, 5563.0, 5640.0, 5500.0, 5452.0, 5258.0, 5326.0, 5268.0 (number of hits: 10)
17	5510	9	1	333	1	5613.0, 5368.0, 5427.0, 5361.0, 5383.0, 5663.0, 5376.0, 5654.0, 5345.0, 5280.0, 5575.0, 5402.0, 5391.0, 5298.0, 5566.0, 5603.0, 5423.0, 5581.0, 5262.0, 5278.0, 5587.0, 5288.0, 5650.0, 5601.0, 5439.0, 5707.0, 5640.0, 5323.0, 5634.0, 5695.0, 5277.0, 5499.0, 5705.0, 5408.0, 5588.0, 5541.0, 5435.0, 5377.0, 5465.0, 5254.0, 5332.0, 5511.0, 5321.0, 5631.0, 5385.0, 5494.0, 5697.0, 5539.0, 5715.0, 5513.0, 5315.0, 5422.0, 5528.0, 5720.0, 5484.0, 5365.0, 5532.0, 5329.0, 5620.0, 5475.0, 5256.0, 5363.0, 5681.0, 5312.0, 5674.0,

						5362.0, 5473.0, 5490.0, 5722.0, 5351.0, 5324.0, 5384.0, 5348.0, 5572.0, 5267.0, 5614.0, 5434.0, 5336.0, 5410.0, 5684.0, 5295.0, 5355.0, 5455.0, 5692.0, 5308.0, 5265.0, 5536.0, 5521.0, 5366.0, 5682.0, 5261.0, 5472.0, 5571.0, 5281.0, 5482.0, 5609.0, 5514.0, 5449.0, 5661.0, 5406.0 (number of hits: 8)
18	5510	9	1	333	1	5303.0, 5310.0, 5698.0, 5315.0, 5654.0, 5516.0, 5658.0, 5468.0, 5636.0, 5502.0, 5344.0, 5510.0, 5300.0, 5377.0, 5600.0, 5414.0, 5653.0, 5547.0, 5306.0, 5373.0, 5632.0, 5323.0, 5424.0, 5688.0, 5604.0, 5341.0, 5276.0, 5411.0, 5319.0, 5356.0, 5307.0, 5674.0, 5656.0, 5337.0, 5346.0, 5718.0, 5421.0, 5684.0, 5326.0, 5585.0, 5561.0, 5490.0, 5619.0, 5465.0, 5294.0, 5478.0, 5620.0, 5598.0, 5266.0, 5635.0, 5692.0, 5409.0, 5514.0, 5407.0, 5488.0, 5557.0, 5436.0, 5592.0, 5507.0, 5586.0, 5593.0, 5423.0, 5458.0, 5571.0, 5567.0, 5360.0, 5366.0, 5556.0, 5694.0, 5446.0, 5702.0, 5553.0, 5460.0, 5286.0, 5643.0, 5348.0, 5332.0, 5418.0, 5639.0, 5437.0, 5273.0, 5374.0, 5347.0, 5430.0, 5540.0, 5388.0, 5467.0, 5645.0, 5491.0, 5690.0, 5403.0, 5708.0, 5671.0, 5314.0, 5359.0, 5317.0, 5609.0, 5475.0, 5648.0, 5594.0 (number of hits: 7)
19	5510	9	1	333	1	5460.0, 5587.0, 5717.0, 5440.0, 5374.0, 5631.0, 5694.0, 5290.0, 5551.0, 5567.0, 5578.0, 5288.0, 5349.0, 5294.0, 5719.0, 5606.0, 5373.0, 5672.0, 5486.0, 5547.0, 5610.0, 5409.0, 5533.0, 5580.0, 5665.0, 5626.0, 5285.0, 5266.0, 5420.0, 5548.0, 5618.0, 5666.0, 5404.0, 5683.0, 5573.0, 5308.0, 5635.0, 5458.0, 5700.0, 5337.0, 5579.0, 5622.0, 5293.0, 5432.0, 5678.0, 5451.0, 5478.0, 5331.0, 5722.0, 5277.0, 5538.0, 5411.0, 5671.0, 5616.0, 5546.0, 5691.0, 5350.0, 5390.0, 5540.0, 5381.0, 5422.0, 5499.0, 5357.0, 5559.0, 5554.0, 5323.0, 5552.0, 5550.0, 5502.0, 5456.0, 5457.0, 5614.0, 5324.0, 5633.0, 5480.0, 5576.0, 5655.0, 5393.0, 5602.0, 5445.0, 5297.0, 5269.0, 5347.0, 5542.0, 5646.0, 5500.0, 5662.0, 5354.0, 5503.0, 5604.0, 5319.0, 5392.0, 5362.0, 5485.0, 5702.0, 5563.0, 5283.0, 5250.0, 5318.0, 5359.0 (number of hits: 4)
20	5510	9	1	333	1	5274.0, 5546.0, 5488.0, 5344.0, 5387.0, 5520.0, 5673.0, 5594.0, 5457.0, 5577.0, 5705.0, 5417.0, 5526.0, 5300.0, 5485.0, 5497.0, 5461.0, 5519.0, 5613.0, 5539.0, 5615.0, 5432.0, 5427.0, 5502.0, 5607.0, 5339.0, 5689.0, 5342.0, 5640.0, 5590.0, 5316.0, 5423.0, 5396.0, 5517.0, 5498.0, 5583.0, 5638.0, 5591.0, 5688.0, 5301.0, 5707.0, 5606.0, 5294.0, 5299.0, 5663.0,

						5579.0, 5585.0, 5328.0, 5481.0, 5327.0, 5695.0, 5374.0, 5518.0, 5501.0, 5635.0, 5349.0, 5267.0, 5676.0, 5552.0, 5494.0, 5611.0, 5333.0, 5571.0, 5258.0, 5560.0, 5355.0, 5535.0, 5609.0, 5475.0, 5414.0, 5386.0, 5702.0, 5619.0, 5706.0, 5434.0, 5436.0, 5268.0, 5265.0, 5621.0, 5445.0, 5616.0, 5542.0, 5665.0, 5718.0, 5582.0, 5453.0, 5470.0, 5288.0, 5534.0, 5365.0, 5581.0, 5291.0, 5465.0, 5298.0, 5569.0, 5586.0, 5260.0, 5319.0, 5668.0, 5623.0 (number of hits: 10)
21	5510	9	1	333	1	5436.0, 5434.0, 5512.0, 5352.0, 5418.0, 5679.0, 5473.0, 5501.0, 5463.0, 5580.0, 5649.0, 5555.0, 5515.0, 5492.0, 5371.0, 5673.0, 5575.0, 5306.0, 5455.0, 5295.0, 5553.0, 5578.0, 5640.0, 5460.0, 5252.0, 5448.0, 5527.0, 5458.0, 5423.0, 5611.0, 5624.0, 5413.0, 5319.0, 5560.0, 5528.0, 5531.0, 5358.0, 5535.0, 5715.0, 5576.0, 5654.0, 5293.0, 5444.0, 5469.0, 5327.0, 5312.0, 5562.0, 5720.0, 5311.0, 5438.0, 5650.0, 5329.0, 5285.0, 5390.0, 5620.0, 5338.0, 5623.0, 5433.0, 5321.0, 5599.0, 5394.0, 5332.0, 5363.0, 5268.0, 5542.0, 5530.0, 5298.0, 5699.0, 5339.0, 5499.0, 5496.0, 5322.0, 5431.0, 5290.0, 5539.0, 5706.0, 5659.0, 5594.0, 5561.0, 5657.0, 5583.0, 5277.0, 5396.0, 5631.0, 5389.0, 5362.0, 5264.0, 5557.0, 5398.0, 5516.0, 5604.0, 5323.0, 5593.0, 5497.0, 5271.0, 5709.0, 5696.0, 5596.0, 5552.0, 5676.0 (number of hits: 10)
22	5510	9	1	333	1	5321.0, 5396.0, 5629.0, 5297.0, 5404.0, 5346.0, 5650.0, 5534.0, 5533.0, 5612.0, 5702.0, 5686.0, 5343.0, 5670.0, 5479.0, 5409.0, 5607.0, 5675.0, 5614.0, 5709.0, 5331.0, 5653.0, 5444.0, 5284.0, 5495.0, 5322.0, 5299.0, 5315.0, 5676.0, 5635.0, 5314.0, 5548.0, 5552.0, 5530.0, 5453.0, 5476.0, 5306.0, 5573.0, 5563.0, 5583.0, 5328.0, 5559.0, 5348.0, 5369.0, 5639.0, 5716.0, 5480.0, 5544.0, 5507.0, 5460.0, 5426.0, 5657.0, 5269.0, 5442.0, 5687.0, 5470.0, 5604.0, 5543.0, 5679.0, 5501.0, 5703.0, 5521.0, 5381.0, 5472.0, 5518.0, 5319.0, 5535.0, 5324.0, 5413.0, 5433.0, 5541.0, 5282.0, 5464.0, 5659.0, 5350.0, 5658.0, 5482.0, 5326.0, 5384.0, 5366.0, 5332.0, 5496.0, 5351.0, 5416.0, 5340.0, 5579.0, 5684.0, 5451.0, 5281.0, 5546.0, 5634.0, 5295.0, 5633.0, 5615.0, 5286.0, 5336.0, 5551.0, 5497.0, 5380.0, 5268.0 (number of hits: 7)
23	5510	9	1	333	1	5286.0, 5655.0, 5492.0, 5252.0, 5389.0, 5329.0, 5336.0, 5482.0, 5718.0, 5608.0, 5260.0, 5362.0, 5523.0, 5446.0, 5462.0, 5567.0, 5406.0, 5604.0, 5495.0, 5478.0, 5407.0, 5460.0, 5294.0, 5643.0, 5650.0,

						5572.0, 5344.0, 5324.0, 5695.0, 5441.0, 5255.0, 5457.0, 5373.0, 5383.0, 5508.0, 5625.0, 5491.0, 5448.0, 5280.0, 5585.0, 5530.0, 5285.0, 5517.0, 5575.0, 5490.0, 5505.0, 5521.0, 5504.0, 5578.0, 5710.0, 5587.0, 5390.0, 5283.0, 5519.0, 5301.0, 5447.0, 5277.0, 5436.0, 5281.0, 5335.0, 5359.0, 5624.0, 5489.0, 5395.0, 5431.0, 5633.0, 5512.0, 5346.0, 5594.0, 5265.0, 5671.0, 5306.0, 5384.0, 5343.0, 5715.0, 5642.0, 5545.0, 5370.0, 5623.0, 5426.0, 5465.0, 5698.0, 5264.0, 5368.0, 5657.0, 5262.0, 5702.0, 5574.0, 5509.0, 5664.0, 5318.0, 5267.0, 5635.0, 5632.0, 5518.0, 5477.0, 5444.0, 5666.0, 5400.0, 5276.0 (number of hits: 14)
24	5510	9	1	333	1	5495.0, 5710.0, 5390.0, 5603.0, 5602.0, 5504.0, 5453.0, 5326.0, 5703.0, 5539.0, 5686.0, 5620.0, 5271.0, 5608.0, 5456.0, 5633.0, 5333.0, 5448.0, 5263.0, 5368.0, 5701.0, 5436.0, 5483.0, 5687.0, 5454.0, 5582.0, 5672.0, 5613.0, 5523.0, 5489.0, 5503.0, 5450.0, 5497.0, 5722.0, 5342.0, 5694.0, 5470.0, 5501.0, 5714.0, 5516.0, 5547.0, 5543.0, 5660.0, 5465.0, 5304.0, 5291.0, 5540.0, 5462.0, 5414.0, 5406.0, 5292.0, 5356.0, 5399.0, 5428.0, 5519.0, 5526.0, 5300.0, 5655.0, 5303.0, 5492.0, 5507.0, 5415.0, 5357.0, 5299.0, 5571.0, 5552.0, 5593.0, 5538.0, 5627.0, 5718.0, 5367.0, 5532.0, 5443.0, 5401.0, 5674.0, 5607.0, 5619.0, 5621.0, 5675.0, 5486.0, 5256.0, 5584.0, 5375.0, 5378.0, 5257.0, 5417.0, 5506.0, 5639.0, 5347.0, 5696.0, 5522.0, 5370.0, 5389.0, 5570.0, 5700.0, 5398.0, 5313.0, 5422.0, 5405.0, 5473.0 (number of hits: 13)
25	5510	9	1	333	1	5276.0, 5611.0, 5518.0, 5678.0, 5306.0, 5370.0, 5619.0, 5641.0, 5465.0, 5279.0, 5625.0, 5431.0, 5444.0, 5495.0, 5345.0, 5470.0, 5559.0, 5667.0, 5447.0, 5496.0, 5254.0, 5720.0, 5455.0, 5330.0, 5674.0, 5310.0, 5456.0, 5251.0, 5563.0, 5286.0, 5287.0, 5572.0, 5479.0, 5459.0, 5272.0, 5372.0, 5471.0, 5666.0, 5535.0, 5436.0, 5599.0, 5531.0, 5335.0, 5643.0, 5551.0, 5601.0, 5469.0, 5605.0, 5281.0, 5472.0, 5609.0, 5515.0, 5274.0, 5343.0, 5340.0, 5408.0, 5702.0, 5691.0, 5477.0, 5474.0, 5284.0, 5568.0, 5484.0, 5509.0, 5631.0, 5267.0, 5439.0, 5321.0, 5705.0, 5497.0, 5544.0, 5331.0, 5711.0, 5687.0, 5395.0, 5661.0, 5602.0, 5315.0, 5334.0, 5452.0, 5285.0, 5590.0, 5525.0, 5348.0, 5523.0, 5480.0, 5557.0, 5675.0, 5704.0, 5707.0, 5318.0, 5406.0, 5261.0, 5694.0, 5424.0, 5582.0, 5680.0, 5658.0, 5560.0, 5532.0 (number of hits: 8)
26	5510	9	1	333	1	5572.0, 5275.0, 5479.0, 5255.0, 5449.0,

						5675.0, 5368.0, 5262.0, 5333.0, 5658.0, 5426.0, 5616.0, 5457.0, 5290.0, 5500.0, 5495.0, 5541.0, 5253.0, 5698.0, 5601.0, 5496.0, 5498.0, 5462.0, 5701.0, 5644.0, 5361.0, 5453.0, 5283.0, 5490.0, 5302.0, 5512.0, 5382.0, 5386.0, 5637.0, 5303.0, 5326.0, 5573.0, 5296.0, 5287.0, 5474.0, 5625.0, 5499.0, 5682.0, 5250.0, 5254.0, 5600.0, 5557.0, 5309.0, 5278.0, 5617.0, 5564.0, 5590.0, 5468.0, 5409.0, 5704.0, 5684.0, 5434.0, 5424.0, 5523.0, 5463.0, 5455.0, 5304.0, 5390.0, 5551.0, 5337.0, 5405.0, 5355.0, 5440.0, 5387.0, 5620.0, 5383.0, 5607.0, 5506.0, 5292.0, 5717.0, 5615.0, 5270.0, 5655.0, 5720.0, 5690.0, 5353.0, 5633.0, 5666.0, 5460.0, 5402.0, 5537.0, 5710.0, 5626.0, 5264.0, 5642.0, 5534.0, 5422.0, 5581.0, 5367.0, 5349.0, 5533.0, 5645.0, 5336.0, 5469.0, 5427.0 (number of hits: 9)
27	5510	9	1	333	1	5575.0, 5551.0, 5299.0, 5670.0, 5610.0, 5371.0, 5476.0, 5535.0, 5466.0, 5462.0, 5555.0, 5465.0, 5268.0, 5672.0, 5400.0, 5647.0, 5676.0, 5419.0, 5435.0, 5252.0, 5721.0, 5529.0, 5453.0, 5399.0, 5271.0, 5521.0, 5723.0, 5401.0, 5520.0, 5652.0, 5633.0, 5722.0, 5673.0, 5354.0, 5398.0, 5541.0, 5622.0, 5668.0, 5344.0, 5502.0, 5310.0, 5417.0, 5327.0, 5294.0, 5406.0, 5491.0, 5387.0, 5513.0, 5445.0, 5317.0, 5677.0, 5372.0, 5276.0, 5356.0, 5385.0, 5542.0, 5703.0, 5418.0, 5489.0, 5512.0, 5285.0, 5655.0, 5282.0, 5680.0, 5608.0, 5277.0, 5316.0, 5345.0, 5590.0, 5577.0, 5702.0, 5421.0, 5296.0, 5678.0, 5347.0, 5477.0, 5666.0, 5451.0, 5314.0, 5335.0, 5402.0, 5597.0, 5537.0, 5286.0, 5444.0, 5480.0, 5694.0, 5391.0, 5343.0, 5620.0, 5640.0, 5436.0, 5487.0, 5701.0, 5368.0, 5554.0, 5463.0, 5407.0, 5692.0, 5346.0 (number of hits: 7)
28	5510	9	1	333	1	5675.0, 5562.0, 5687.0, 5569.0, 5380.0, 5508.0, 5312.0, 5498.0, 5548.0, 5407.0, 5556.0, 5394.0, 5636.0, 5338.0, 5257.0, 5449.0, 5447.0, 5252.0, 5468.0, 5517.0, 5363.0, 5387.0, 5399.0, 5401.0, 5287.0, 5475.0, 5314.0, 5326.0, 5431.0, 5582.0, 5613.0, 5439.0, 5321.0, 5593.0, 5476.0, 5512.0, 5628.0, 5277.0, 5676.0, 5509.0, 5595.0, 5375.0, 5502.0, 5658.0, 5574.0, 5500.0, 5339.0, 5344.0, 5336.0, 5616.0, 5317.0, 5452.0, 5290.0, 5705.0, 5472.0, 5538.0, 5295.0, 5662.0, 5634.0, 5551.0, 5719.0, 5474.0, 5358.0, 5425.0, 5389.0, 5697.0, 5354.0, 5583.0, 5540.0, 5264.0, 5545.0, 5412.0, 5510.0, 5550.0, 5602.0, 5322.0, 5694.0, 5440.0, 5614.0, 5570.0, 5527.0, 5663.0, 5282.0, 5499.0, 5707.0, 5647.0, 5369.0, 5673.0, 5644.0, 5492.0,

						5536.0, 5438.0, 5590.0, 5652.0, 5265.0, 5357.0, 5657.0, 5445.0, 5607.0, 5303.0 (number of hits: 11)
29	5510	9	1	333	1	5389.0, 5652.0, 5548.0, 5486.0, 5263.0, 5433.0, 5317.0, 5457.0, 5582.0, 5311.0, 5718.0, 5320.0, 5585.0, 5603.0, 5412.0, 5332.0, 5481.0, 5455.0, 5518.0, 5524.0, 5435.0, 5429.0, 5542.0, 5511.0, 5715.0, 5370.0, 5402.0, 5579.0, 5621.0, 5379.0, 5534.0, 5421.0, 5595.0, 5699.0, 5252.0, 5260.0, 5682.0, 5376.0, 5326.0, 5269.0, 5623.0, 5635.0, 5627.0, 5274.0, 5637.0, 5301.0, 5607.0, 5375.0, 5555.0, 5704.0, 5507.0, 5506.0, 5484.0, 5494.0, 5677.0, 5383.0, 5348.0, 5307.0, 5336.0, 5351.0, 5356.0, 5696.0, 5456.0, 5514.0, 5671.0, 5658.0, 5516.0, 5631.0, 5681.0, 5405.0, 5626.0, 5341.0, 5449.0, 5686.0, 5692.0, 5622.0, 5526.0, 5462.0, 5411.0, 5566.0, 5323.0, 5545.0, 5537.0, 5397.0, 5359.0, 5660.0, 5503.0, 5259.0, 5620.0, 5552.0, 5255.0, 5367.0, 5390.0, 5448.0, 5672.0, 5487.0, 5703.0, 5708.0, 5423.0, 5723.0 (number of hits: 10)
30	5510	9	1	333	1	5519.0, 5623.0, 5630.0, 5411.0, 5465.0, 5499.0, 5373.0, 5433.0, 5539.0, 5694.0, 5461.0, 5354.0, 5705.0, 5526.0, 5511.0, 5590.0, 5307.0, 5554.0, 5437.0, 5450.0, 5257.0, 5682.0, 5253.0, 5434.0, 5265.0, 5633.0, 5438.0, 5435.0, 5335.0, 5324.0, 5448.0, 5305.0, 5598.0, 5322.0, 5508.0, 5564.0, 5474.0, 5635.0, 5458.0, 5648.0, 5667.0, 5460.0, 5353.0, 5621.0, 5427.0, 5430.0, 5415.0, 5277.0, 5584.0, 5581.0, 5401.0, 5579.0, 5419.0, 5356.0, 5533.0, 5343.0, 5702.0, 5575.0, 5466.0, 5275.0, 5303.0, 5518.0, 5537.0, 5580.0, 5400.0, 5692.0, 5690.0, 5714.0, 5426.0, 5467.0, 5709.0, 5496.0, 5398.0, 5512.0, 5627.0, 5388.0, 5391.0, 5316.0, 5697.0, 5588.0, 5706.0, 5677.0, 5345.0, 5290.0, 5340.0, 5546.0, 5681.0, 5425.0, 5360.0, 5562.0, 5262.0, 5288.0, 5527.0, 5276.0, 5332.0, 5300.0, 5557.0, 5383.0, 5444.0, 5658.0 (number of hits: 9)

5530 MHz, 80 MHz Bandwidth

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1A/1B	30	100 %	60%	Pass
Type 2	30	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	96.67 %	80%	Pass
Type 6	30	100 %	70%	Pass

Please refer to the following statistical tables: