

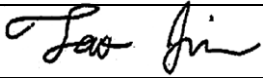


FCC PART 15.407
ISED RSS-247 ISSUE 2
LP0002-2020
DYNAMIC FREQUENCY SELECTION
TEST REPORT

For
Cisco Systems Inc.

FCC: 125 West Tasman Drive
San Jose, CA 95134-1706
IC: 170 W. Tasman Drive, Building P & 7
San Jose, CA 95134, United States of America (Excluding The States of Alaska)

FCC ID: LDKIW9167EH
IC: 2461A-IW9167EH

Report Type: Original Report	Product Type: Access Point
Prepared By Tao Jin Test Engineer	
Report Number R2212126 Rev D	
Report Date 2023-06-28	
Reviewed By Simon Ma RF Supervisor	
Bay Area Compliance Laboratories Corp. 1274 Anvilwood Ave Sunnyvale, CA 94089, USA Tel: (408) 732-9162, Fax: (408) 732 9164	



Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. This report **must not** be used by the customer to claim product certification, approval, or endorsement by A2LA* or any agency of the Federal Government.

* This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk “*” (Rev.3)

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	R2212126	Original Report	2023-01-23
1	R2212126 Rev A	Updating Applicant's address on the cover page.	2023-02-02
2	R2212126 Rev B	Adding LP0002-2020 Standard for Taiwan	2023-02-25
3	R2212126 Rev C	Adding test data for client mode	2023-03-21
4	R2212126 Rev D	Adding test data for WGB mode	2023-06-28

1 General Description

1.1 Product Description for Equipment under Test (EUT)

This test report was prepared on behalf of *Cisco Systems Inc.*, and their product *FCC ID: LDKIW9167EH, IC: 2461A-IW9167EH*, Model: IW9167EH-B (FCC) and IW9167EH-A (ISED) as referred to as EUT in this report. The product is a 4x4 Access Point, which has two radios: Pine and Iron. Pine supports up to 160 MHz channel bandwidth configurations, and Iron supports up to 80 MHz channel bandwidth configurations. Both radio supports operation in access point (AP) mode, point to point (P2P) mode, point to multipoint (P2MP) mode, and Client with radar detection mode. Also Iron radio includes Working Group Bridge (WGB) mode. The device doesn't support 802.11ax channel puncturing or "zero-wait DFS".

IW9167EH-A - Industrial Wireless 9167 AP - A domain (Hardware PID)
 IW9167EH-A-AP - Wi-Fi mode
 IW9167EH-A-URWB - URWB mode
 IW9167EH-A-WGB - WGB mode

IW9167EH-B - Industrial Wireless 9167 AP - B domain (Hardware PID)
 IW9167EH-B-AP - Wi-Fi mode
 IW9167EH-B-URWB - URWB mode
 IW9167EH-B-WGB - WGB mode

IW9167EH-ROW - Industrial Wireless 9167 AP - ROW domain (Hardware PID)
 IW9167EH-ROW-AP - Wi-Fi mode
 IW9167EH-ROW-URWB - URWB mode
 IW9167EH-ROW-WGB - WGB mode

***Note:** WGB mode is used in Iron radio only

1.2 Mechanical Description of EUT

Length (cm)	Width (cm)	Height (cm)	Weight (kg)	S/N
28.7	26.7	7.1	4.2	KWC26410ZYR; KWC26330HLZ

1.3 Objective

This report is prepared on behalf of *Cisco Systems Inc.* in accordance with FCC CFR47 §15.407 (h), RSS-247 Issue 2, LP0002 SECTION 5.7 (2020-07-01) and KDB: 905462 D02 UNII DFS Compliance Procedures New Rules v02.

The objective was to determine compliance with FCC, ISED, and NCC rules for DFS Detection Threshold, Channel Availability Check Time, Uniform Spreading U-NII Detection Bandwidth, Channel Closing Transmission Time, and Channel Move time in AP, P2P, and P2MP modes.

1.4 Related Submittal(s)/Grant(s)

N/A

1.5 Test Methodology

FCC CFR 47 Part2, Part15.407 (h), RSS-247 Issue 2, NCC LP0002 SECTION 5.7 (2020-07-01)

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 17025:2017 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 17025:2017 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 17025:2017 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: (Innovation, Science and Economic development Canada - ISEDC) Foreign Certification Body – FCB – APEC Tel MRA -Phase I & Phase II;
- Chinese Taipei (Republic of China – Taiwan):
 - o BSMI (Bureau of Standards, Metrology and Inspection) APEC Tel MRA -Phase I;
 - o NCC (National Communications Commission) APEC Tel MRA -Phase I;
- European Union:
 - o EMC Directive 2014/30/EU US-EU EMC & Telecom MRA CAB (NB)
 - o Radio Equipment (RE) Directive 2014/53/EU US-EU EMC & Telecom MRA CAB (NB)
 - o Low Voltage Directive (LVD) 2014/35/EU
- Hong Kong Special Administrative Region: (Office of the Telecommunications Authority – OFTA) APEC Tel MRA -Phase I & Phase II
- Israel – US-Israel MRA Phase I
- Republic of Korea (Ministry of Communications - Radio Research Laboratory) APEC Tel MRA -Phase I
- Singapore: (Infocomm Media Development Authority - IMDA) APEC Tel MRA -Phase I & Phase II;
- Japan: VCCI - Voluntary Control Council for Interference US-Japan Telecom Treaty VCCI Side Letter-
- USA:
 - o ENERGY STAR Recognized Test Laboratory – US EPA
 - o Telecommunications Certification Body (TCB) – US FCC;
 - o Nationally Recognized Test Laboratory (NRTL) – US OSHA
- Vietnam: APEC Tel MRA -Phase I;

2 EUT Test Configuration

2.1 Justification

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

2.2 EUT Exercise Software

The test used TeraTerm and test commands, provided by *Cisco Systems Inc.*, the software is compliant with the standard requirements being tested against.

Three different firmware images were tested:

1. WNBU Image: ap1g6a-k9w8-tar.202211202130 was tested for AP mode
2. CURUWB Image: ap1g6j-k9c1-tar.202212282251 was tested for P2P and P2MP modes
3. WGB Image: m44_wgb_dfs_compliance_single.img was tested for Working Group Bridge mode.

2.3 Equipment Modifications

N/A

2.4 Local Support Equipment

Manufacturer	Description	Model	Serial Number
Dell	Laptop RF1	Latitude E7440	C71SYZ1
ASUS	Laptop	FX504G	J6NRCX037440249

2.5 Remote Support Equipment

Manufacturer	Description	Model	Serial Number
Lenovo	Laptop	T490	PF-274C83
Cisco	Access Point	IW9167EH-A, IW9167EH-B	KWC26410ZZ9; KWC2702001W
Mini-Circuits	Power Splitter	ZN4PD1-63-S+	S UU71701639

2.6 Interface Ports and Cables

Cable Description	Length	To	From
Ethernet cable	2 m	PoE	EUT
Ethernet cable	2 m	EUT	Laptop
Serial Port cable	2 m	EUT	Laptop
Ethernet cable	2 m	PoE	Support Device
Ethernet cable	2 m	Support Device	Laptop
Serial Port cable	2 m	Support Device	Laptop

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, NCC LP0002 SECTION 5.7 (2020-07-01), 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

Disclaimer: *BACL is responsible for all the information provided in this report, except when information is provided by the customer as identified in this report. Information provided by the customer, e.g., antenna gain, can affect the validity of results.*

4 Applicable Standards

4.1 DFS Requirement

FCC CFR47 §15.407 (h), RSS-247 Issue 2, NCC LP0002 SECTION 5.7 (2020-07-01), 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 \geq 200 milliwatt	-64 dBm
EIRP $<$ 200 milliwatt and power spectral density $<$ 10dBm/MHz	-62 dBm
EIRP $<$ 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.
Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.
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 <i>See Note 1.</i>
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. <i>See Notes 1 and 2.</i>
U-NII Detection Bandwidth	Minimum 100% of the UNII 99% transmission power bandwidth. <i>See Note 3.</i>

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	$\text{Roundup} \left(\frac{1}{\left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right)} \right)$	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 (μsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

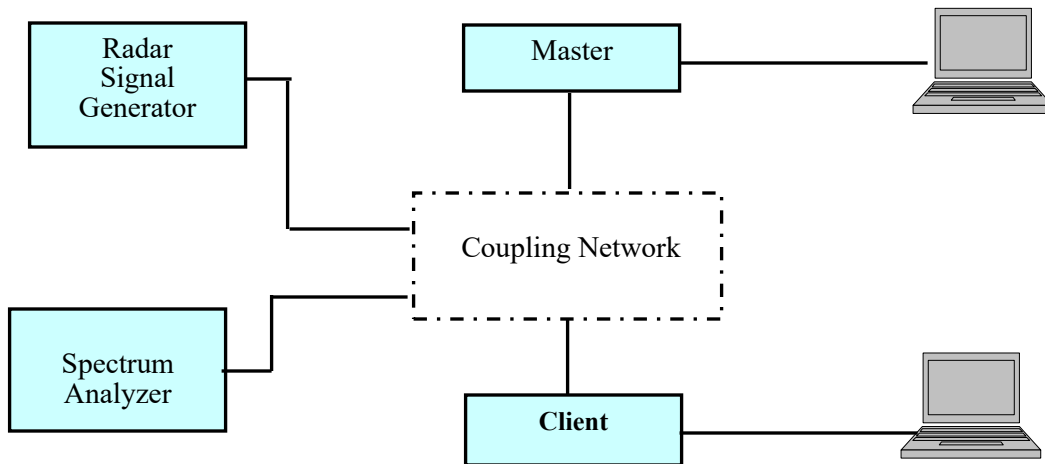
Table 7: Frequency Hopping Radar Test Signal

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

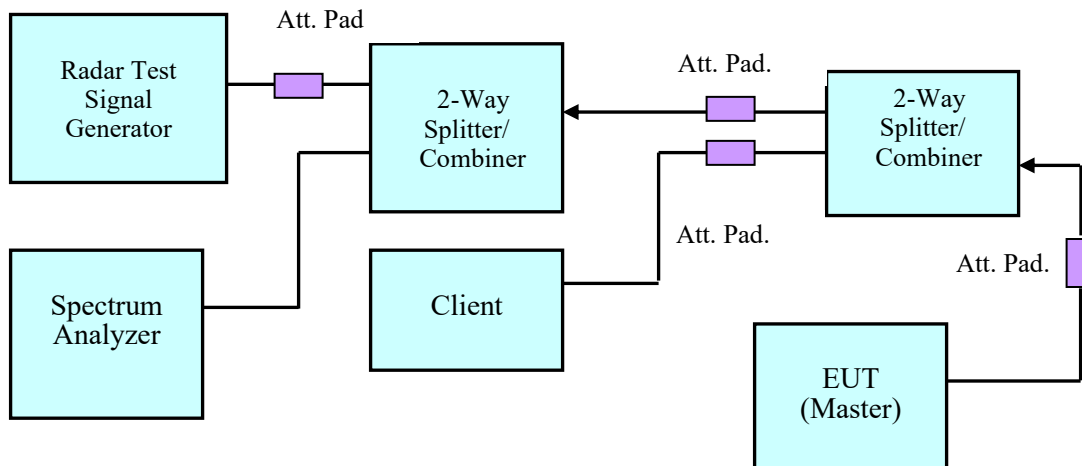
4.2 DFS Measurement System

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

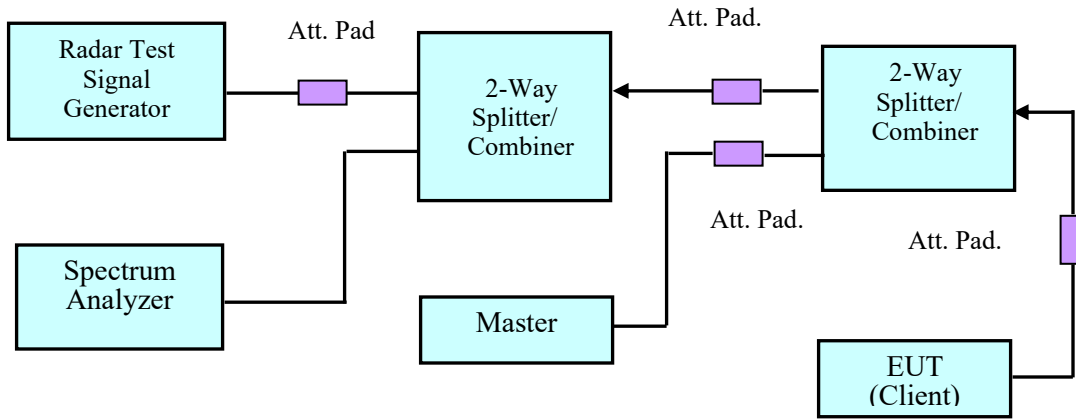
4.3 System Block Diagram



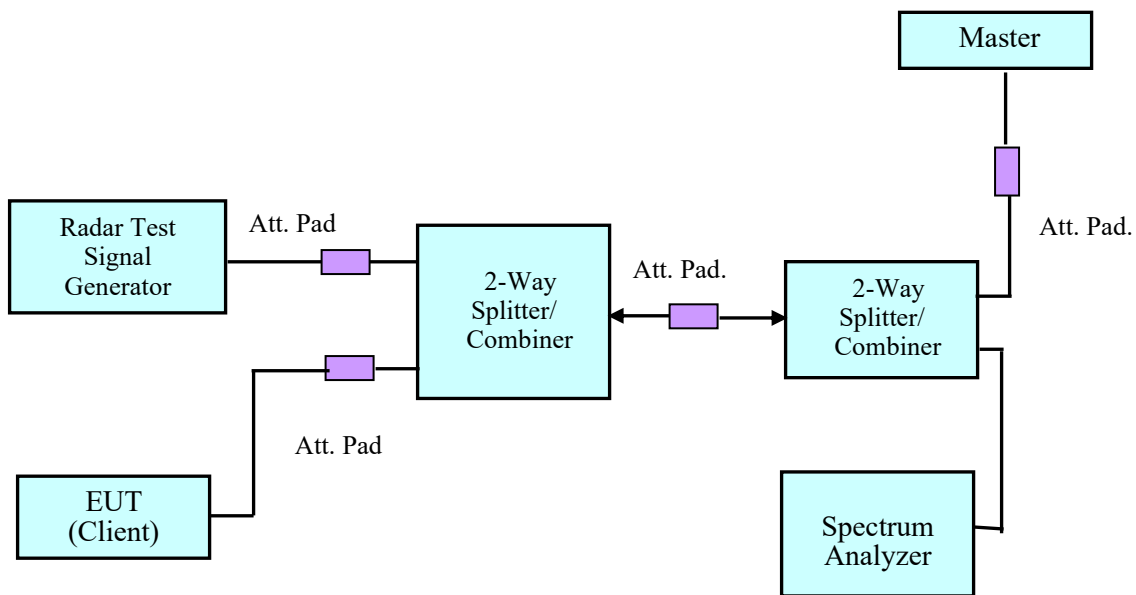
4.4 Conducted Method



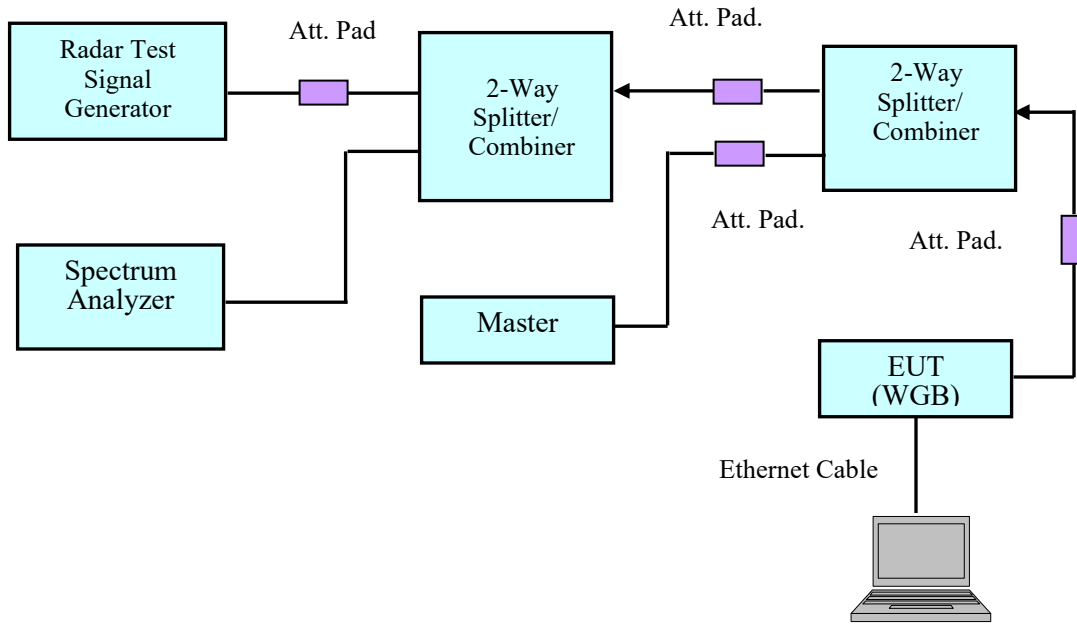
Setup for Conducted Method for Master Mode (AP, P2P, and P2MP)



Setup for Conducted Method for Client Mode (P2MP), client device is the RDD



Setup for Conducted Method for Client Mode (P2MP), master device is the RDD



Setup for Conducted Method for WGB mode

Note: In WGB mode, EUT connects the wireless supporting device in AP mode (Master) to the non-wireless supporting device (Laptop).

4.5 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 5250-5350 MHz and 5470-5725 MHz range in each one of the five Operational Modes (AP, P2P, P2MP Master, P2MP Client, and WGB) for Iron radio and in each one of the four Operational Modes (AP, P2P, P2MP Master, and P2MP Client) for Pine radio.

For Iron Radio, in all five operating modes, EUT is configured to channel 100 for testing in 20 MHz bandwidth mode, configured to channel 102 for testing in 40 MHz bandwidth mode, and configured to channel 106 for testing in 80 MHz bandwidth mode.

For Pine Radio, in all four operating modes, EUT is configured to channel 100 for testing in 20 MHz bandwidth mode, configured to channel 102 for testing in 40 MHz bandwidth mode, configured to channel 106 for testing in 80 MHz bandwidth mode, configured to channel 114 for testing in 160 MHz bandwidth mode.

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

Adding the provided 3 dBi antenna gain for AP, P2MP, Client, and WGB modes, and 10dBi antenna gain for P2P mode, the calibrated conducted DFS detection threshold level is set to -61 dBm for AP, P2MP, Client, and WGB modes, and is set to -54 dBm for P2P mode. Please refer to the detailed antenna information in the next section.

WLAN traffic is generated by running iperf3.

5.2 Antenna Description

Antenna Type	Supplier	Antenna Part No.	Frequency (MHz)	Peak Antenna Gain (dBi)
Horn	RF Elements	HG3-CC-S90	5180-6400	10
Omnidirectional	MP Antenna	08-ANT-0985	4900-6000	3

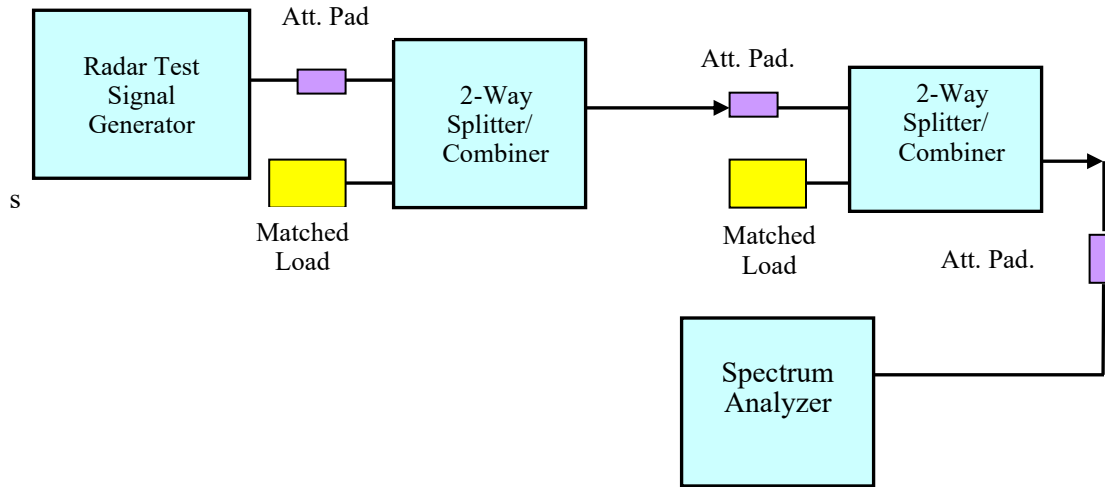
5.3 Test Equipment List and Details

BACL No.	Manufacturer	Equipment Description	Model	S/N	Calibration Date	Calibration Interval
547	National Instruments	NI PXI-1042 8-Slot chassis	PXI-1042	V08X01EE1	N/A	N/A
547	National Instruments	Arbitrary Waveform Generator	PXI-5421	N/A	N/A	N/A
547	National Instruments	RF Upconverter	PXI-5610	N/A	N/A	N/A
547	ASCOR	Upconverter	AS-7206	N/A	N/A	N/A
624	Agilent	Analyzer, Spectrum	E4446A	MY48250238	2022-08-01	1 year
287	HP	Analyzer, Spectrum	E4446A	US44300386	2022-05-05	1 year
1128	Agilent	EXA Signal Analyzer	N9010A	MY48030852	2023-04-25	1 year
655	Rohde & Schwarz	Signal Analyzer	FSQ26	200749	2022-02-07	2 years
912	Rhode & Schwarz	Signal Analyzer	FSV40	1321.3008k39-101203-UW	2022-05-05	1 year
424	Agilent	Analyzer, Spectrum	E4440A	US45303156	2022-12-19	1 year
-	Mini-Circuits	Power Splitter	ZN4PD1-63-S+	S F263501223	N/A	N/A
-	Mini-Circuits	Power Splitter	ZN2PD-9G-S+	S F038700723	N/A	N/A
-	Mini-Circuits	Power Splitter	ZFSC-2-10G	0 0349	N/A	N/A
-	-	Attenuator	-	-	Each Time	Each Time
-	-	RF Cable	-	-	Each Time	Each Time

Note¹: cable and attenuator included in the test set-up will be checked each time before testing.

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

5.4 Radar Waveform Calibration



Conducted Calibration Setup Block Diagram

5.5 Test Environmental Conditions

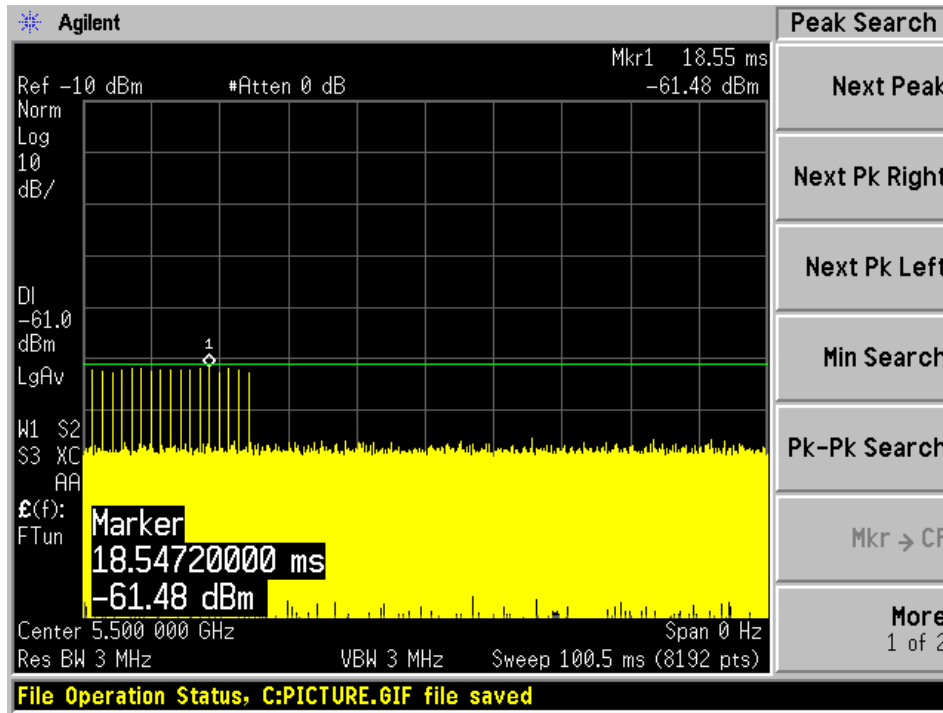
Temperature:	20-22° C
Relative Humidity:	36-43 %
ATM Pressure:	101.0-101.9 kPa

Testing was performed by Tao Jin from 2022-12-14 to 2023-1-16 and on 2023-06-12 at the DFS testing site.

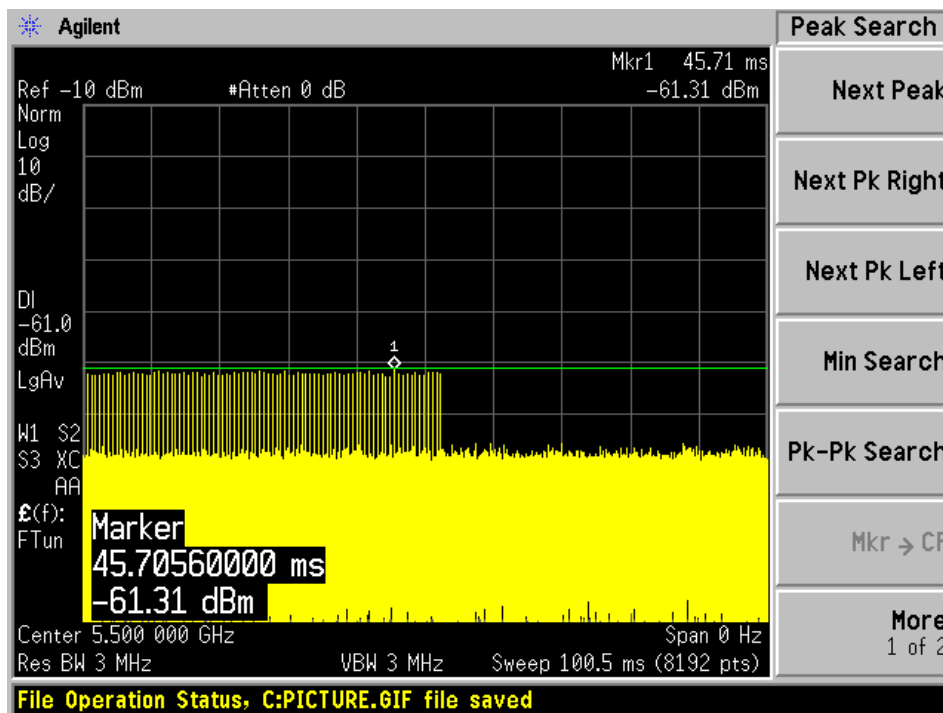
Plots of Radar Waveform

**AP, P2MP Master, and P2MP Client modes
5500 MHz, 20 MHz Channel Bandwidth**

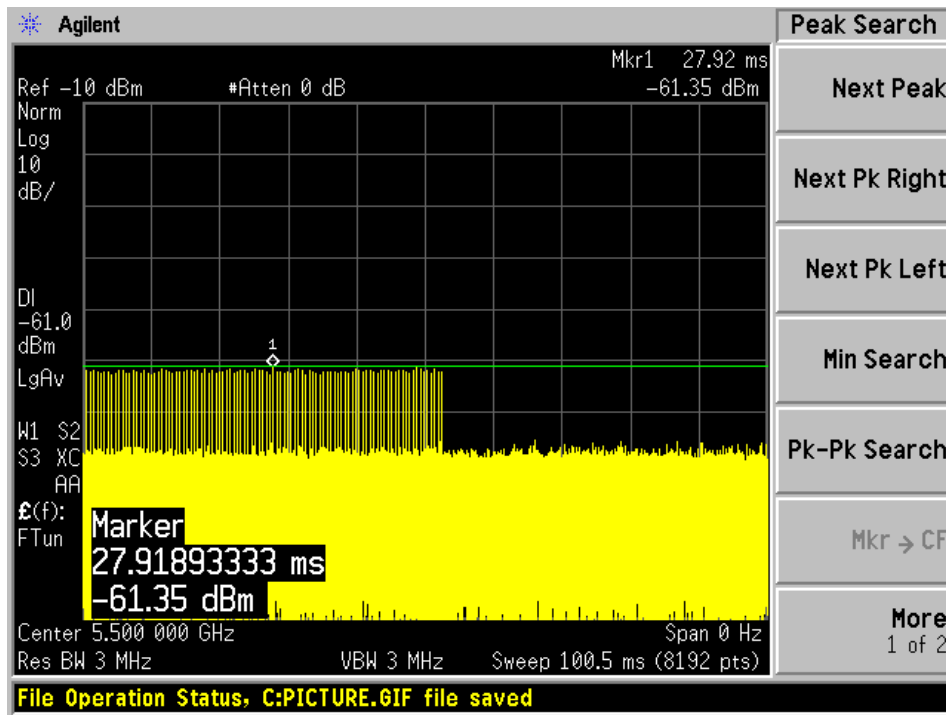
Radar Type 0



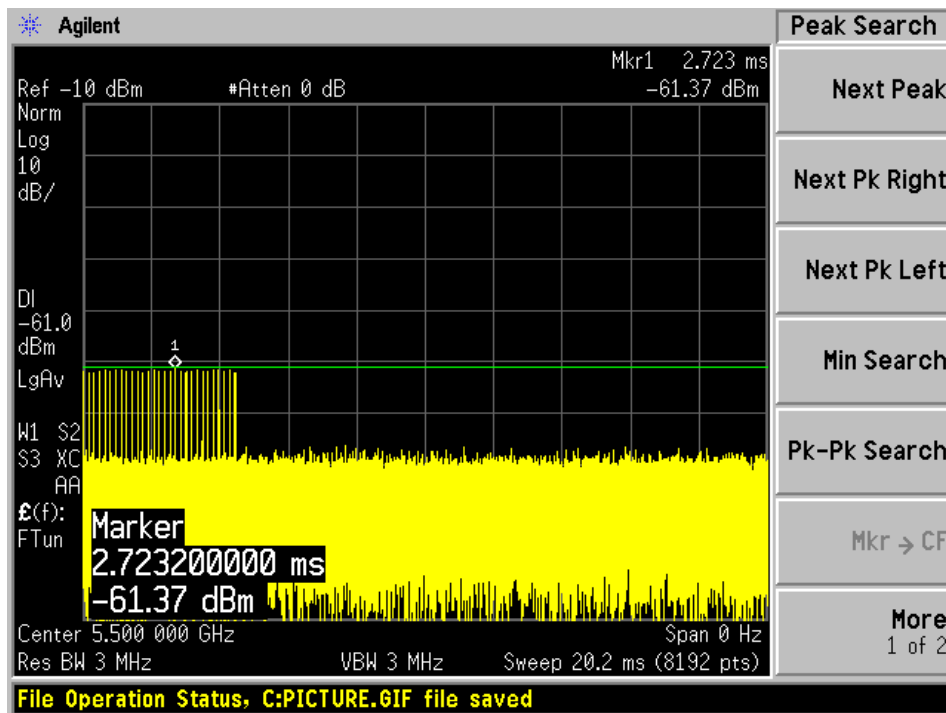
Radar Type 1A



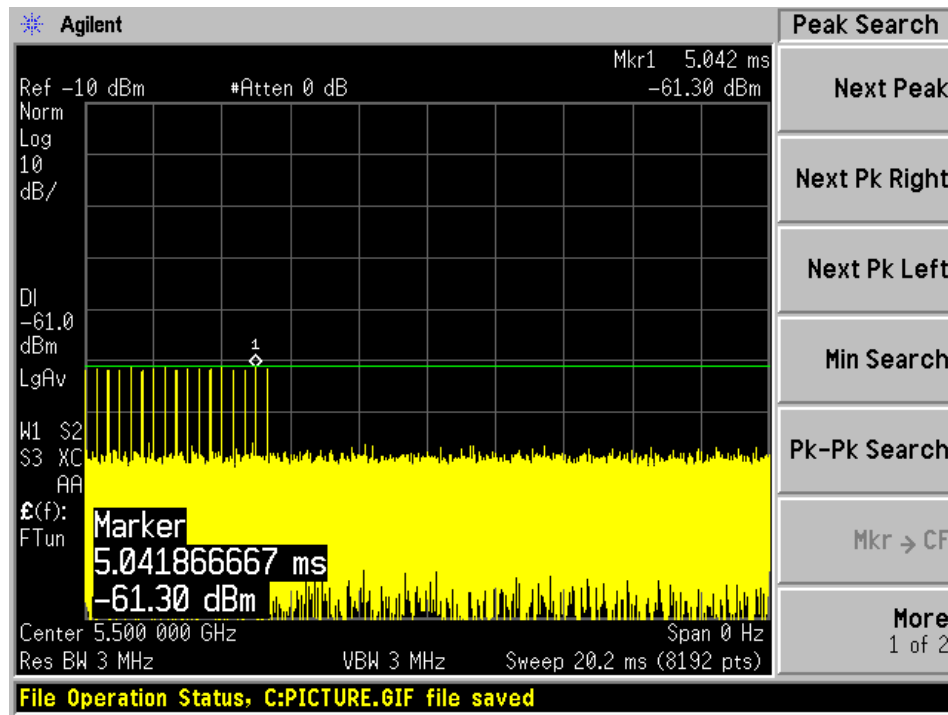
Radar Type 1B



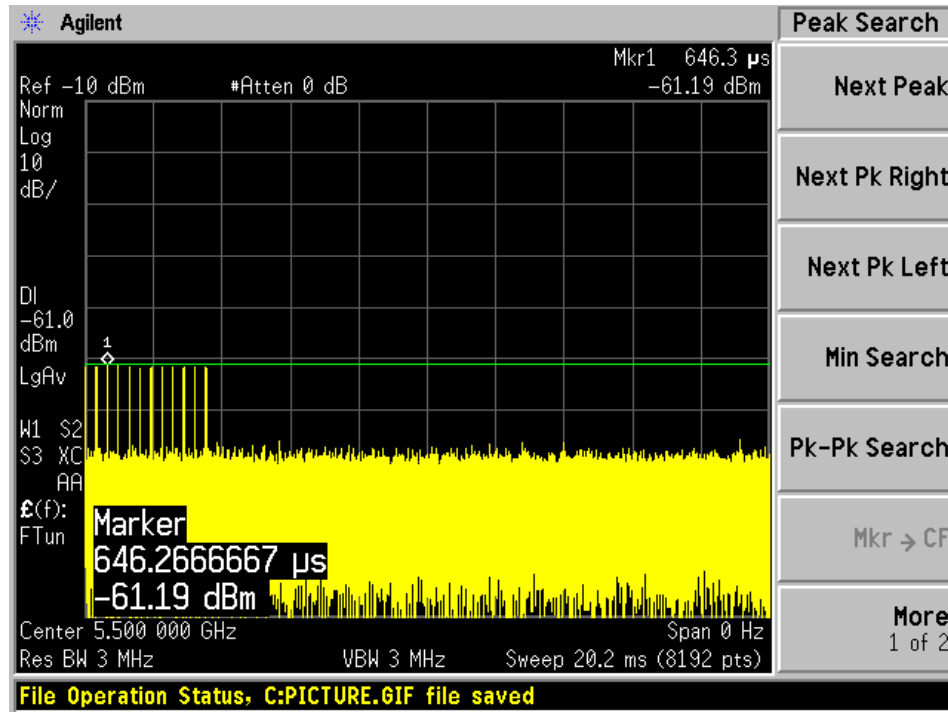
Radar Type 2



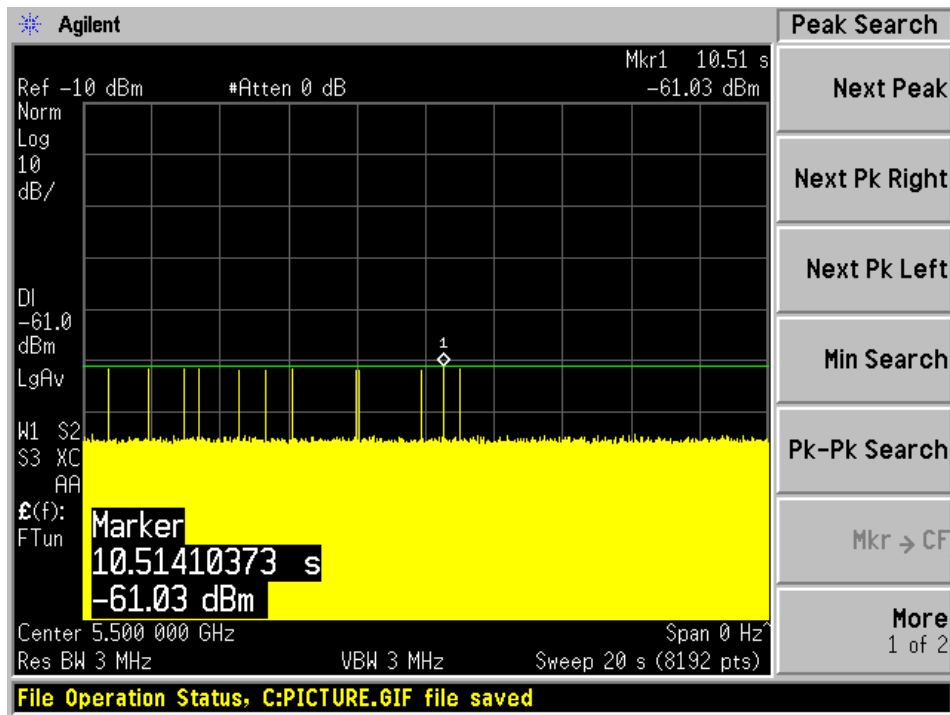
Radar Type 3



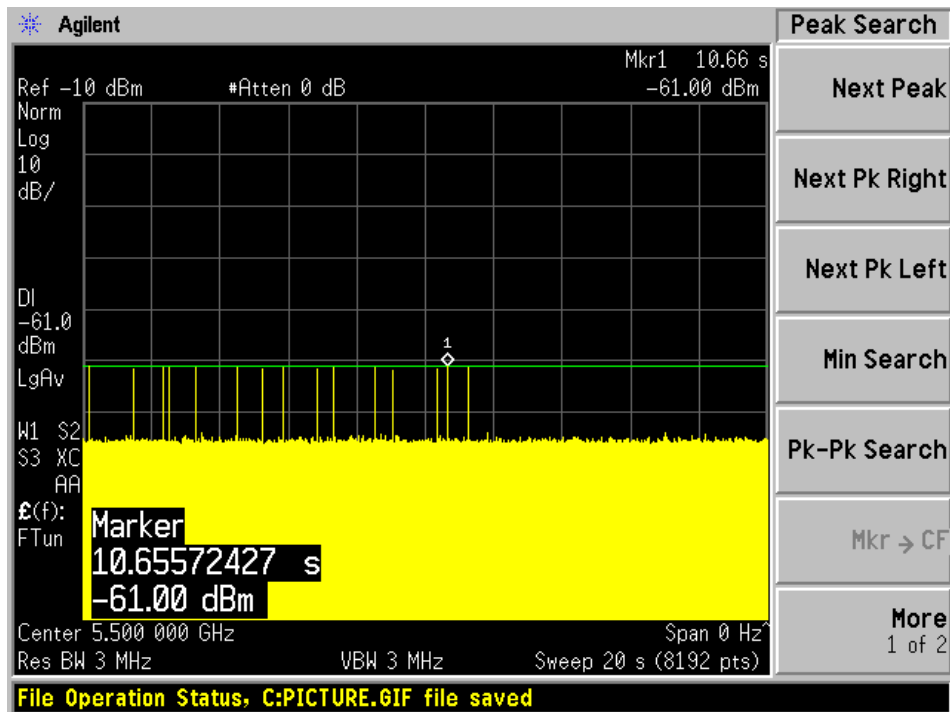
Radar Type 4



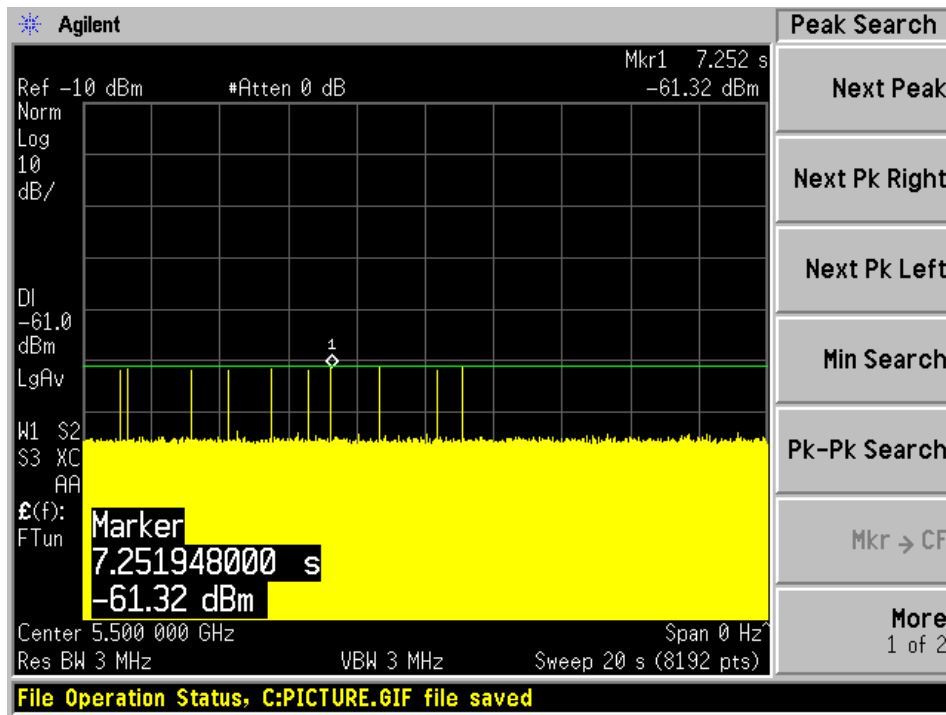
Radar Type 5 Case 1



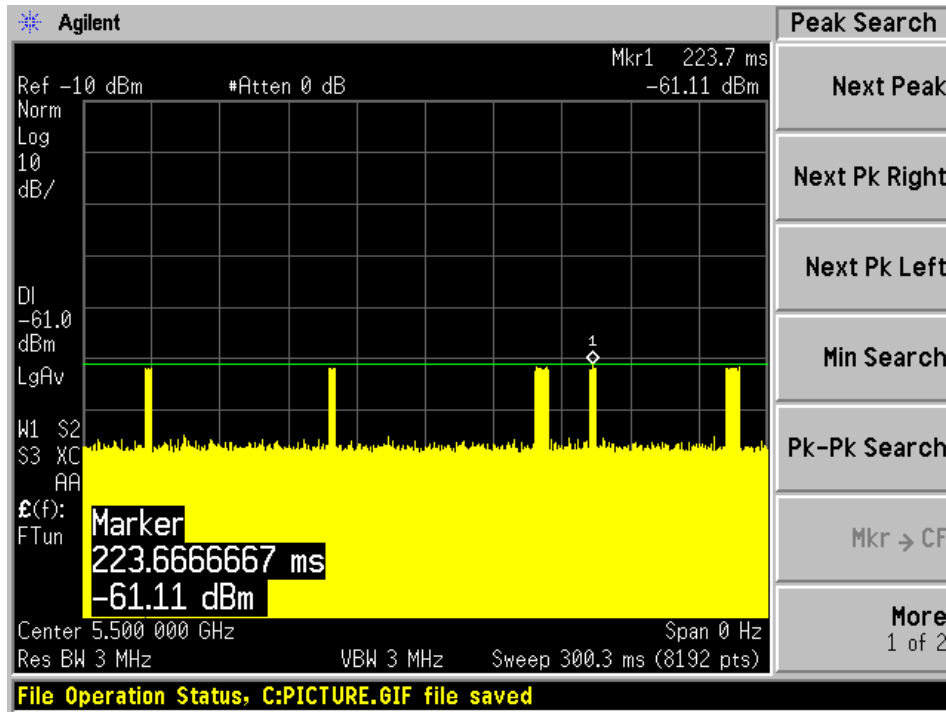
Radar Type 5 Case 2



Radar Type 5 Case 3

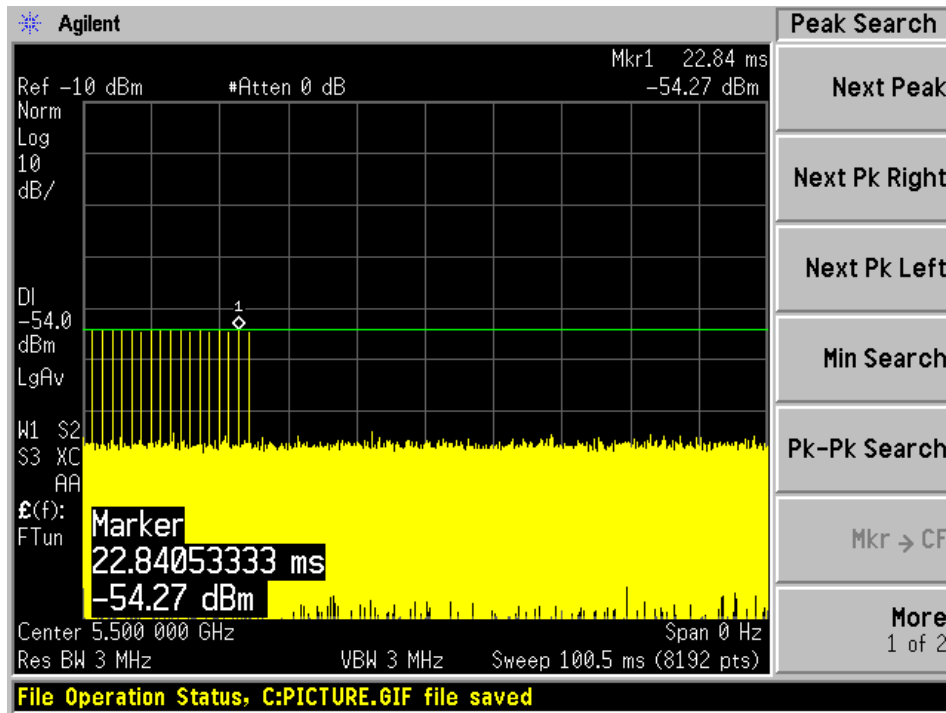


Radar Type 6

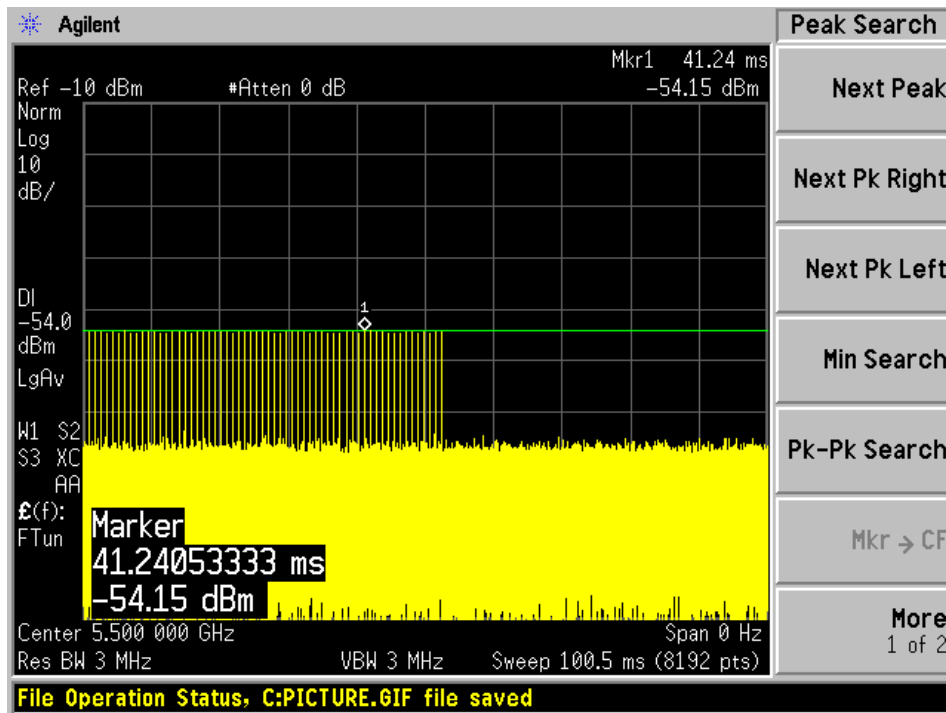


P2P Mode
5500 MHz, 20MHz Channel Bandwidth

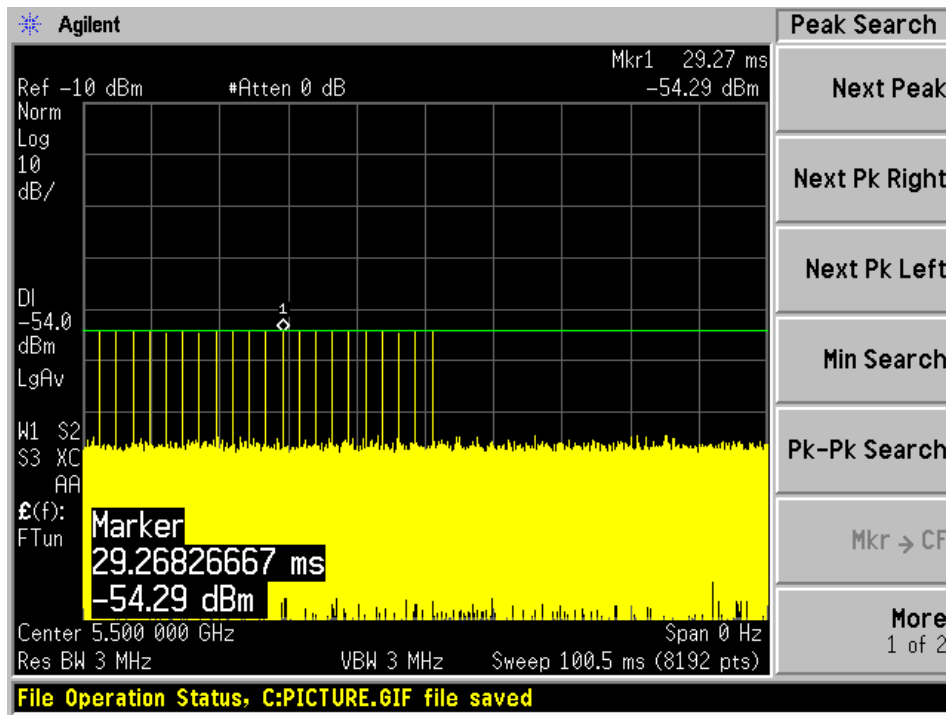
Radar Type 0



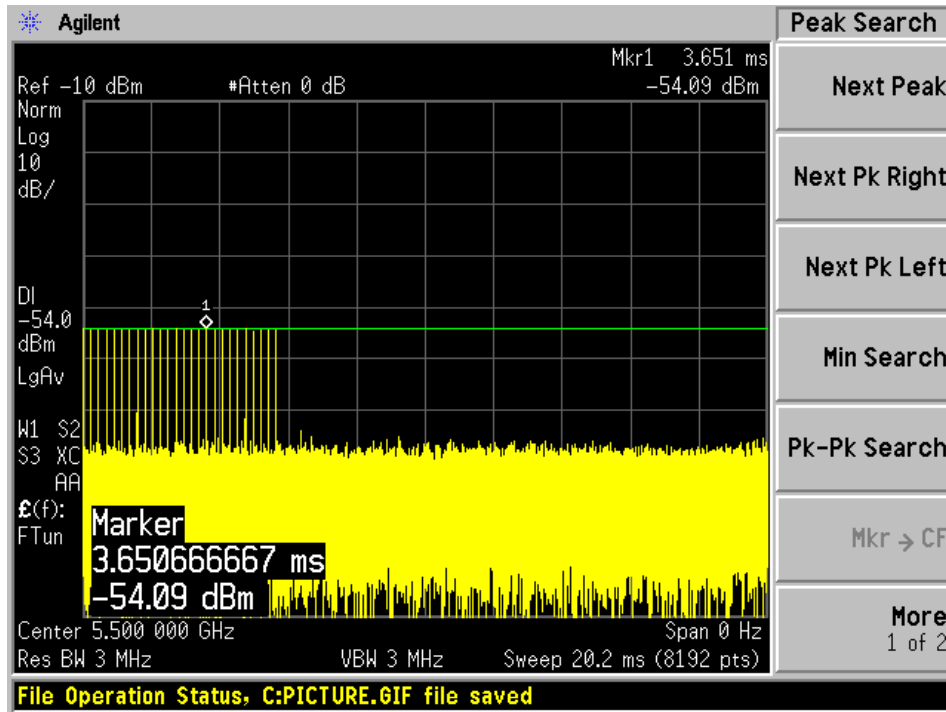
Radar Type 1A



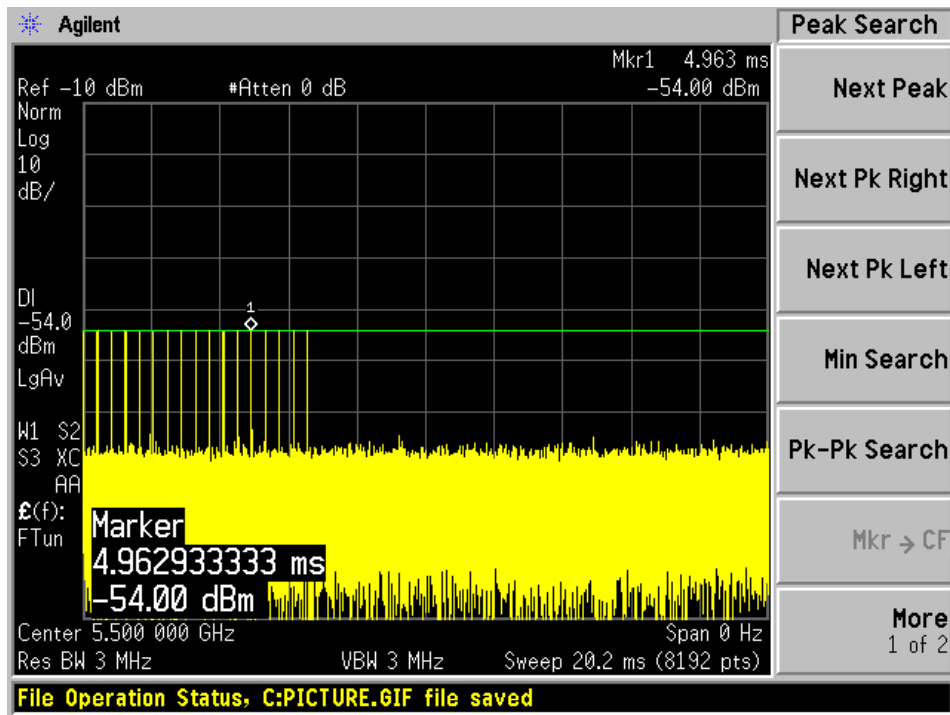
Radar Type 1B



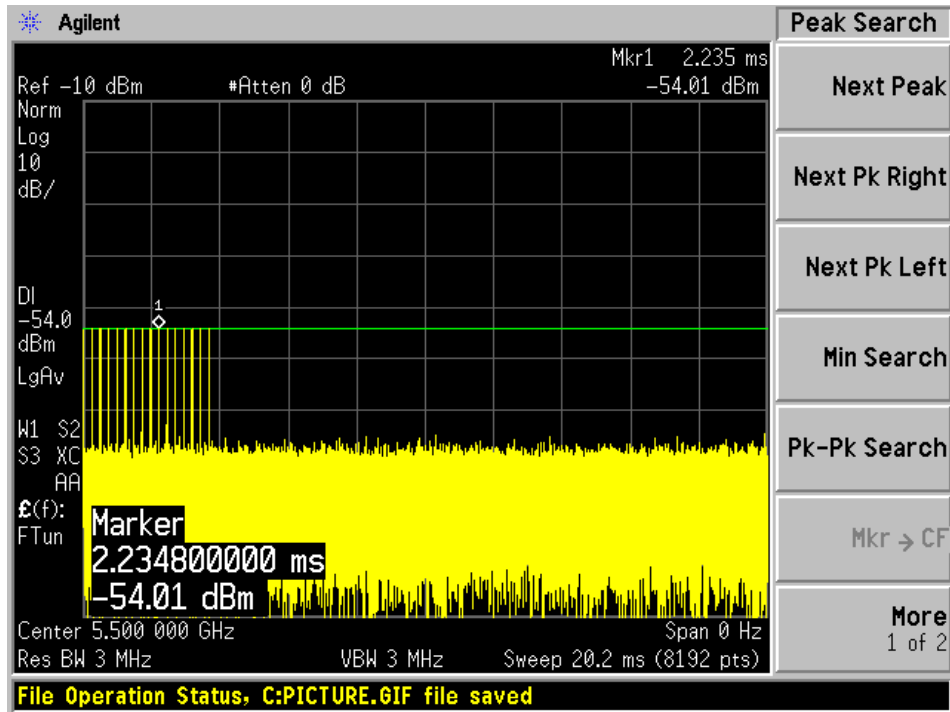
Radar Type 2



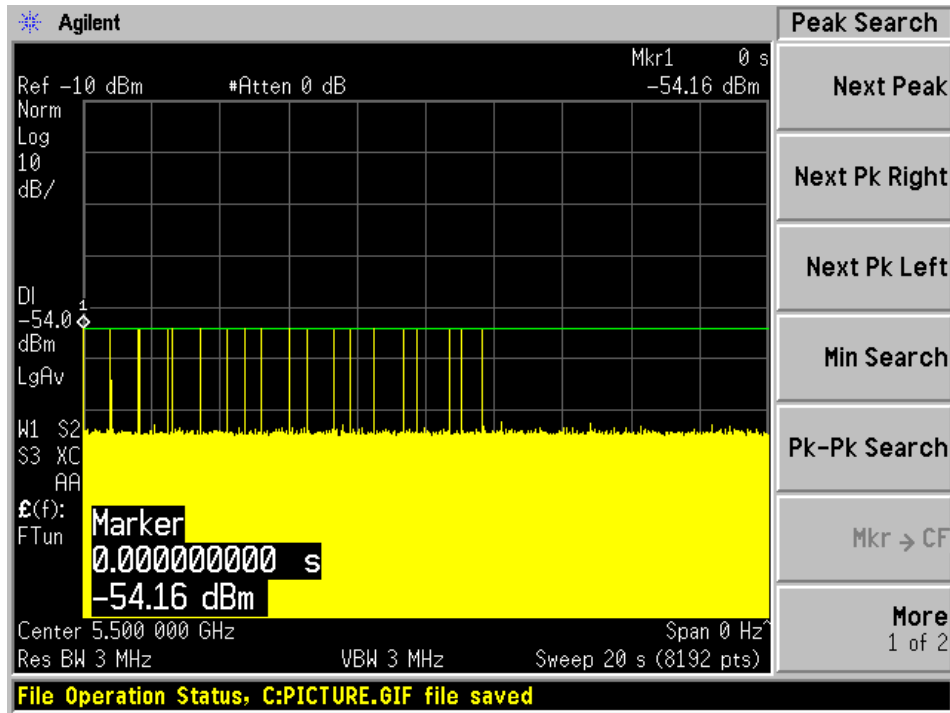
Radar Type 3



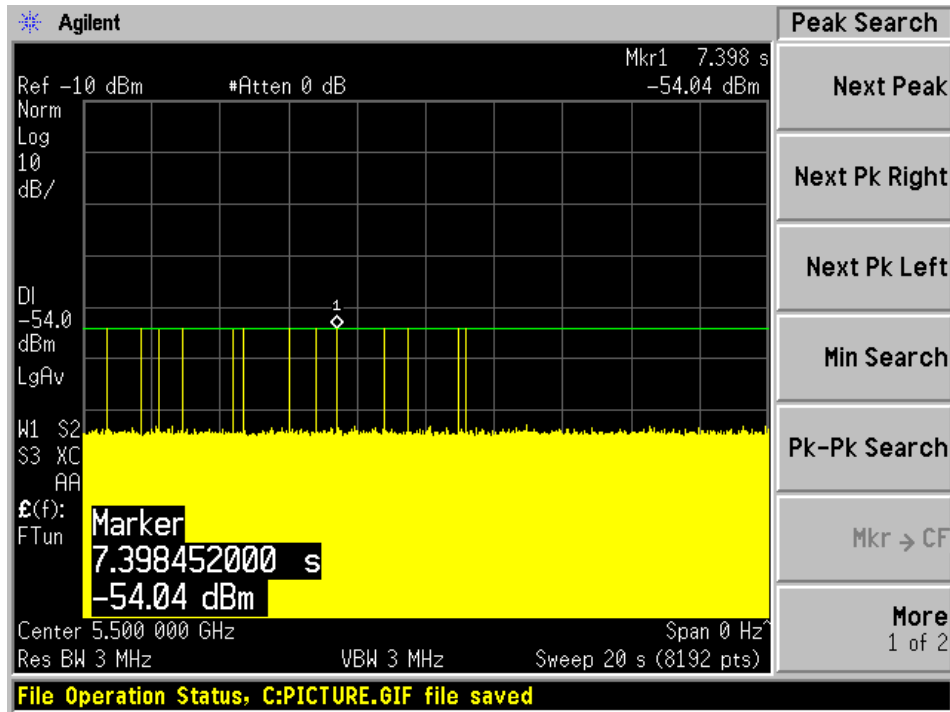
Radar Type 4



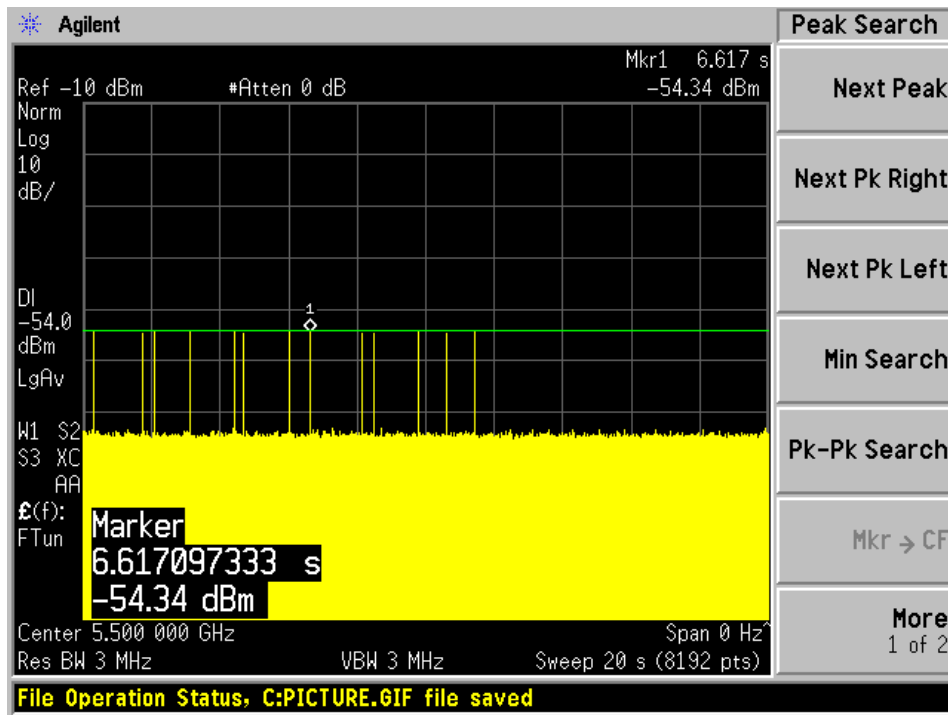
Radar Type 5 Case 1



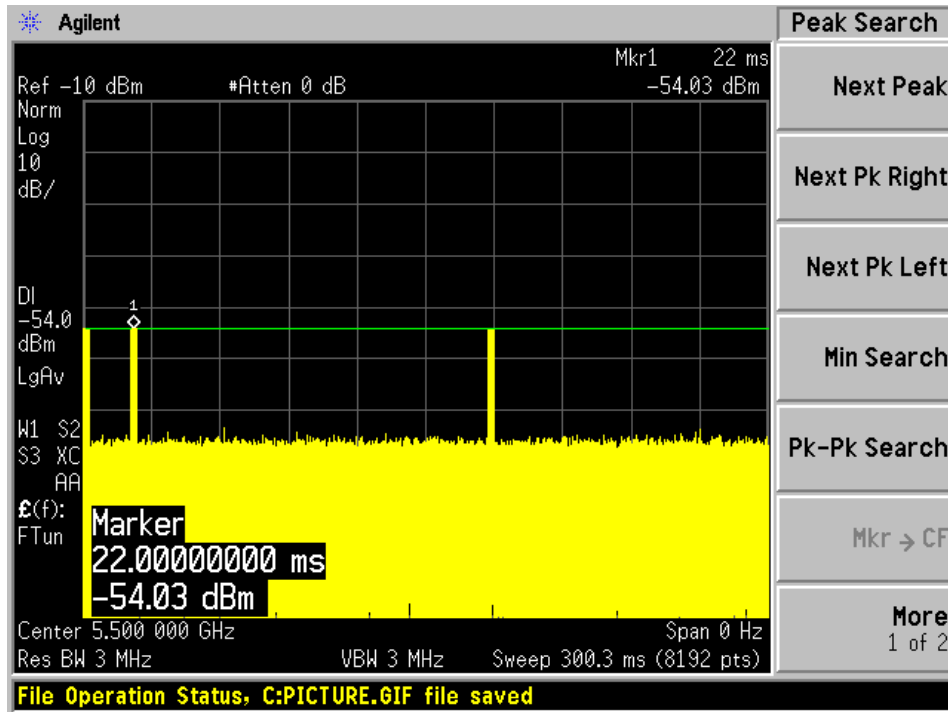
Radar Type 5 Case 2



Radar Type 5 Case 3

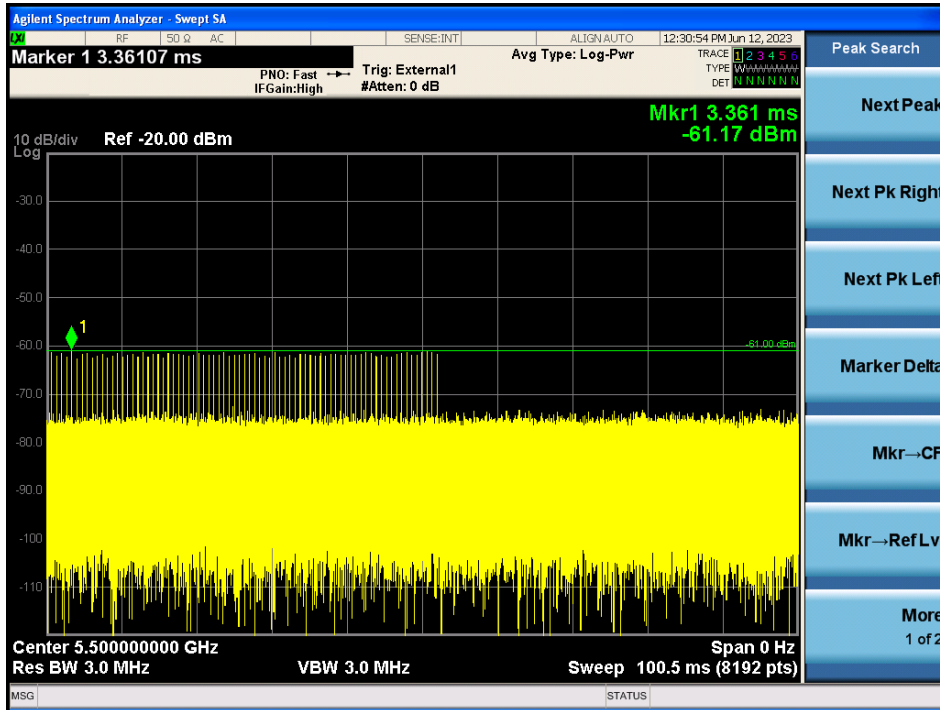


Radar Type 6

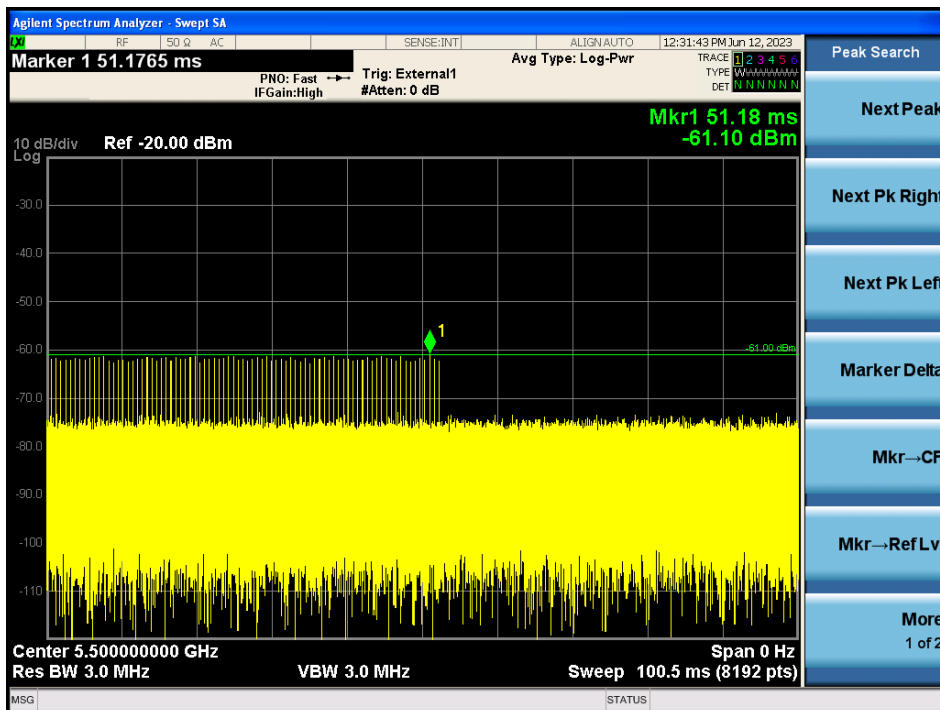


WGB mode 5500MHz, 20MHz Channel Bandwidth

Radar Type 1A



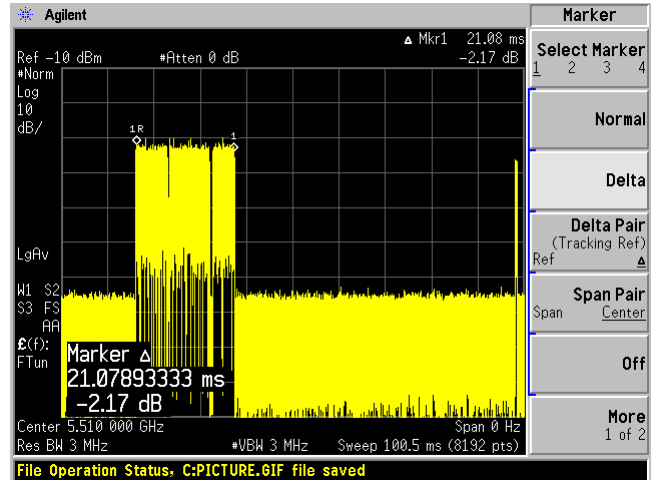
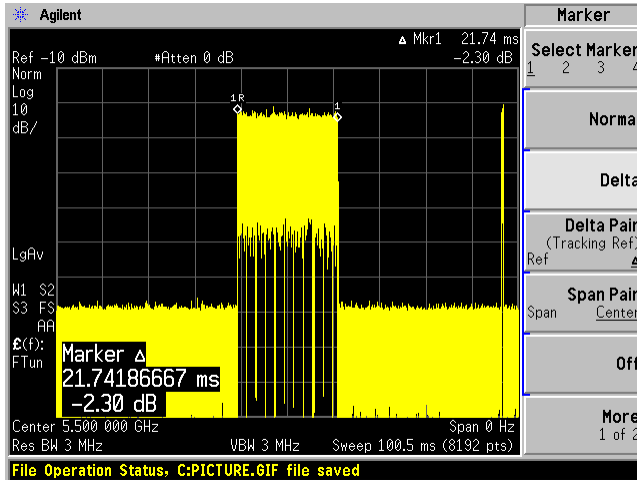
Radar Type 1B



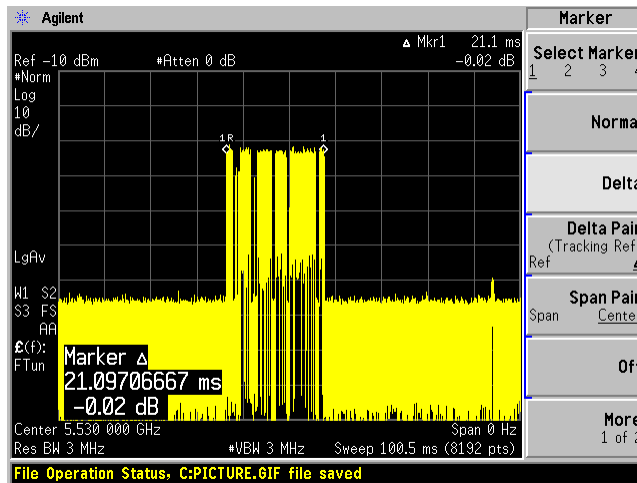
5.6 Radar Traffic Duty Cycle Example

AP Mode Iron Radio

5500 MHz, 20MHz Bandwidth ----- 5510 MHz, 40MHz Bandwidth



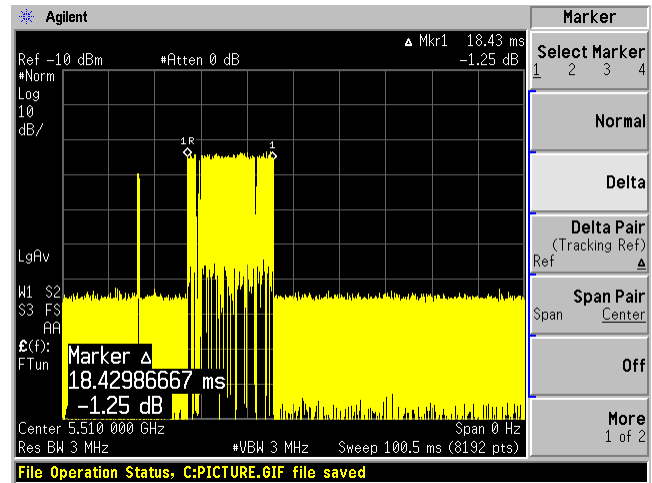
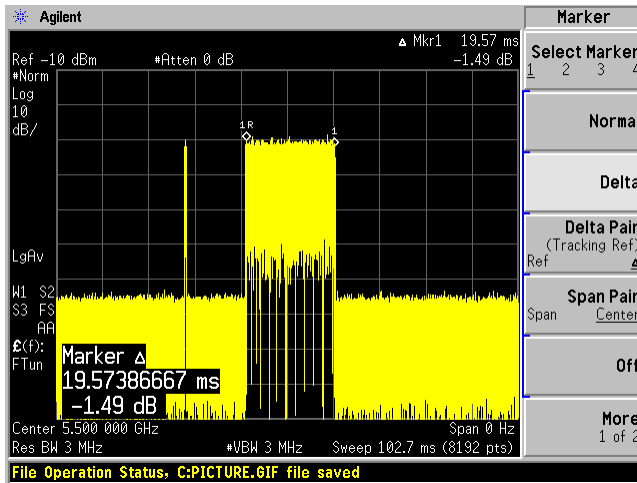
5530 MHz, 80MHz Bandwidth



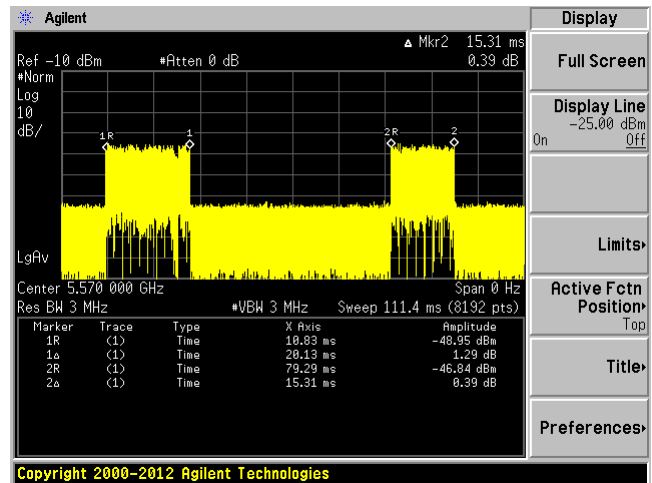
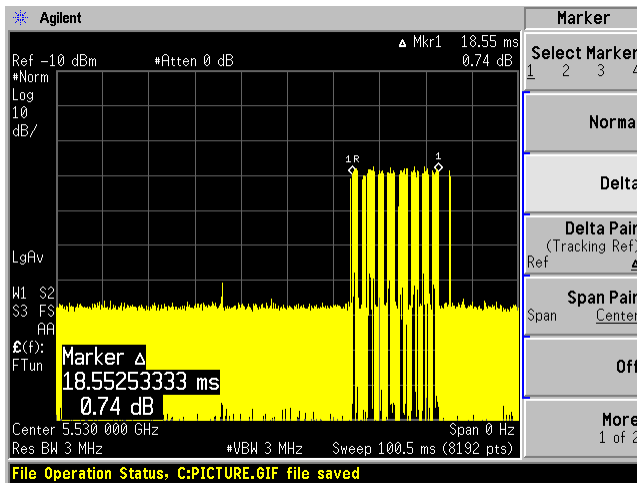
The Duty Cycle of the traffic was greater than 17%

Pine Radio

5500 MHz, 20MHz Bandwidth ----- 5510 MHz, 40MHz Bandwidth



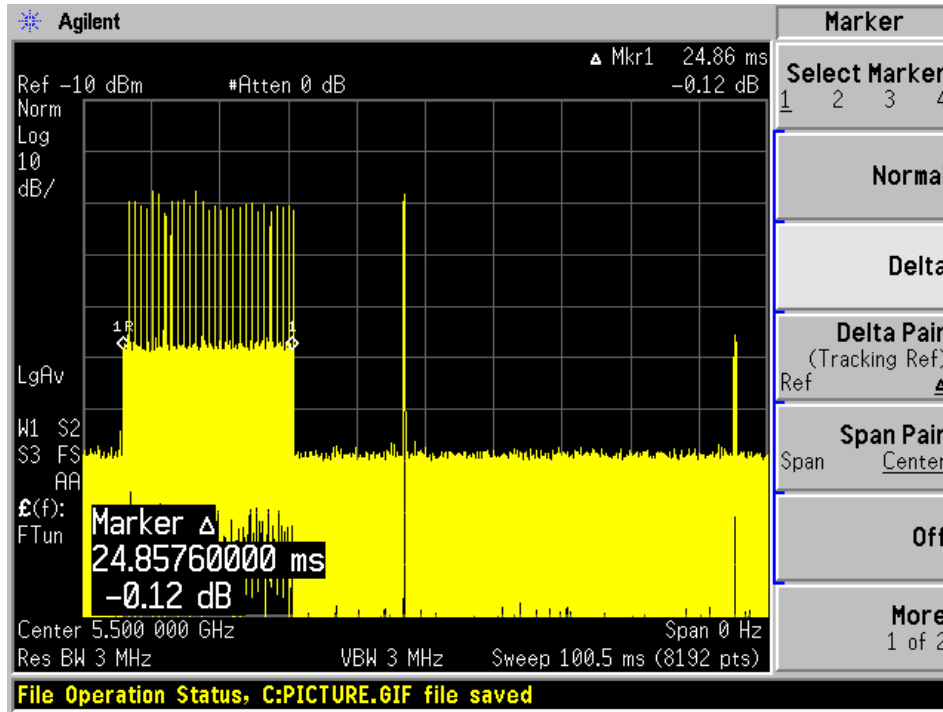
5530 MHz, 80MHz Bandwidth ----- 5570 MHz, 160MHz Bandwidth



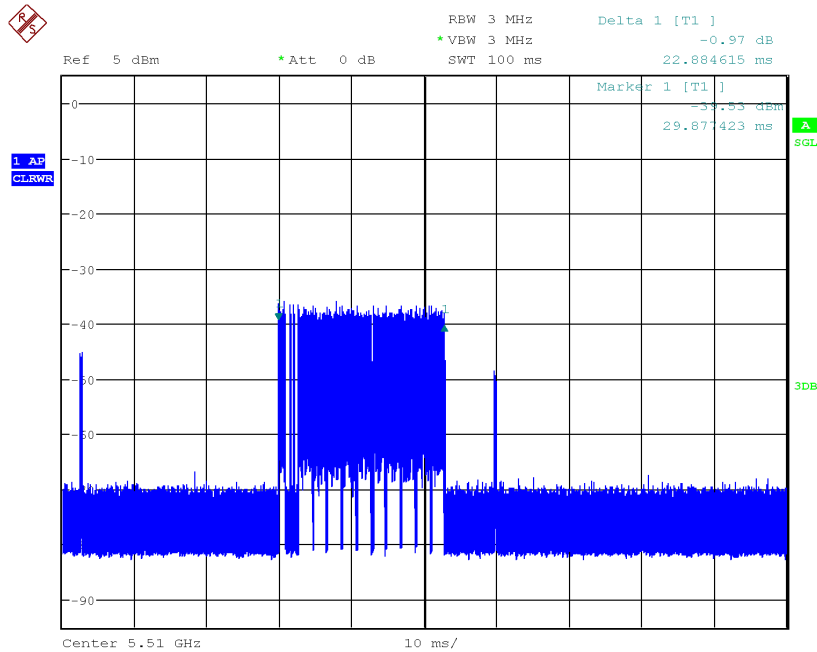
The Duty Cycle of the traffic is greater than 17%

P2P Master Mode Iron Radio

5500 MHz, 20MHz Bandwidth

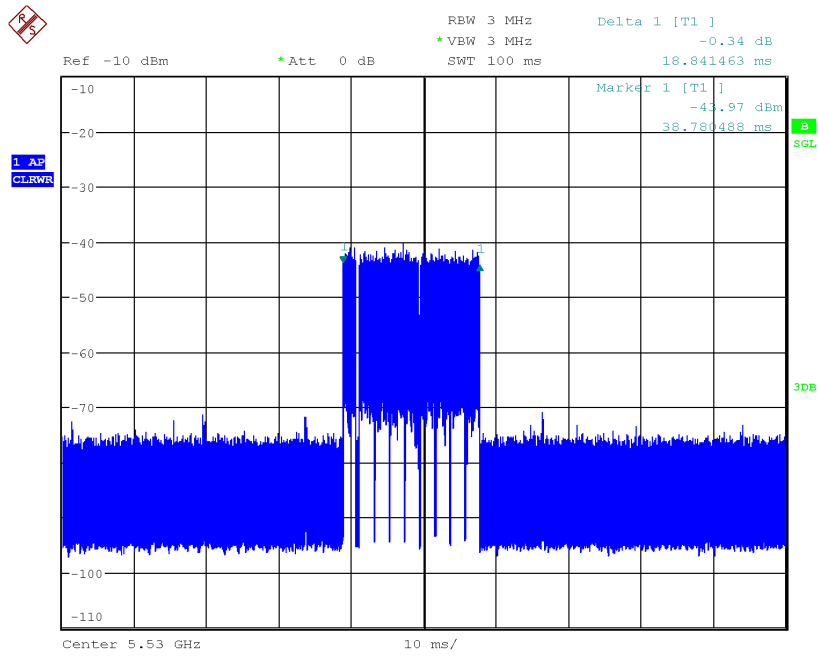


5510MHz, 40MHz Bandwidth



Date: 2.JAN.2003 00:07:10

5530 MHz, 80MHz Bandwidth

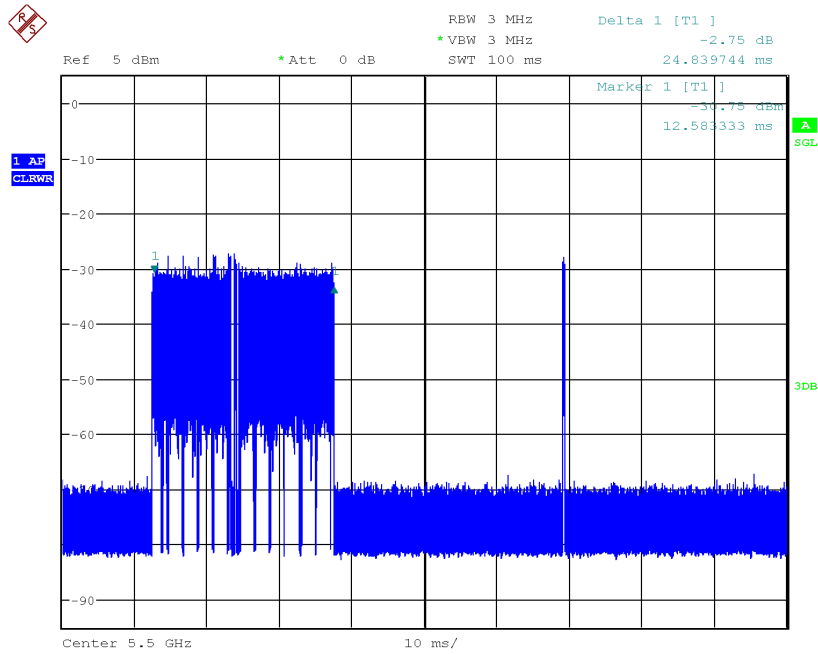


Date: 1.JAN.2003 00:48:57

The Duty Cycle of the traffic is greater than 17%

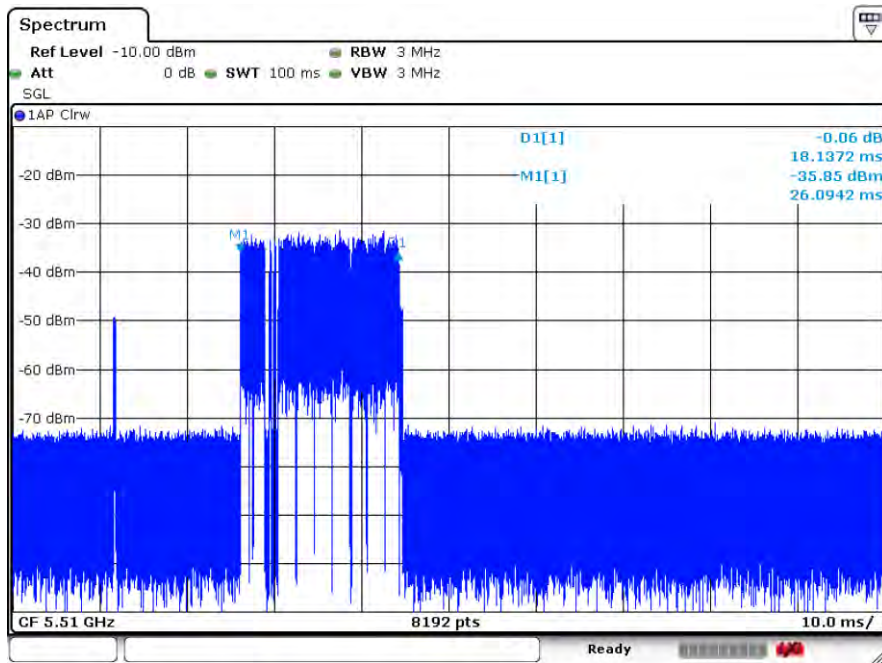
Pine Radio

5500 MHz, 20MHz Bandwidth



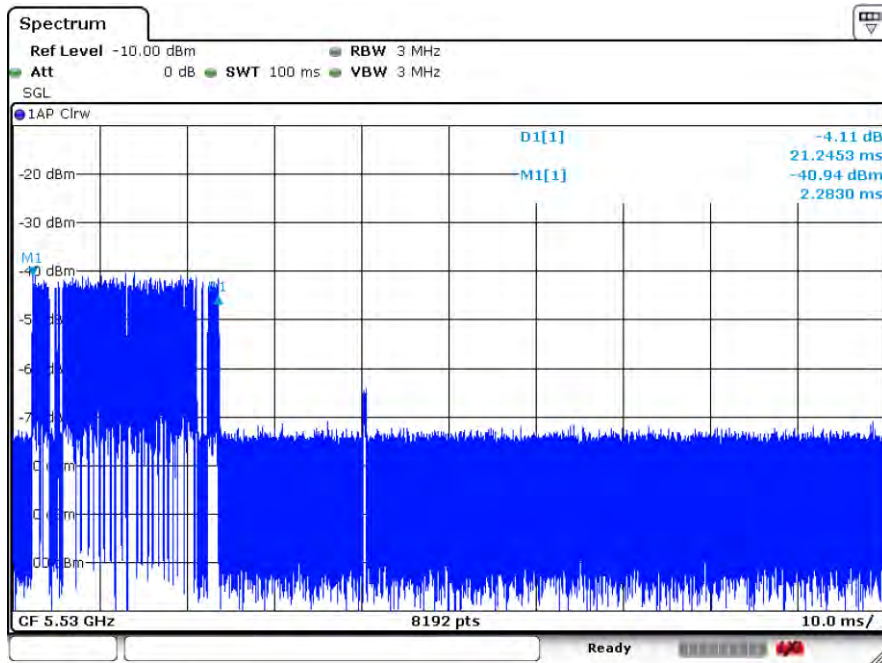
Date: 2.JAN.2003 01:43:54

5510MHz, 40MHz Bandwidth



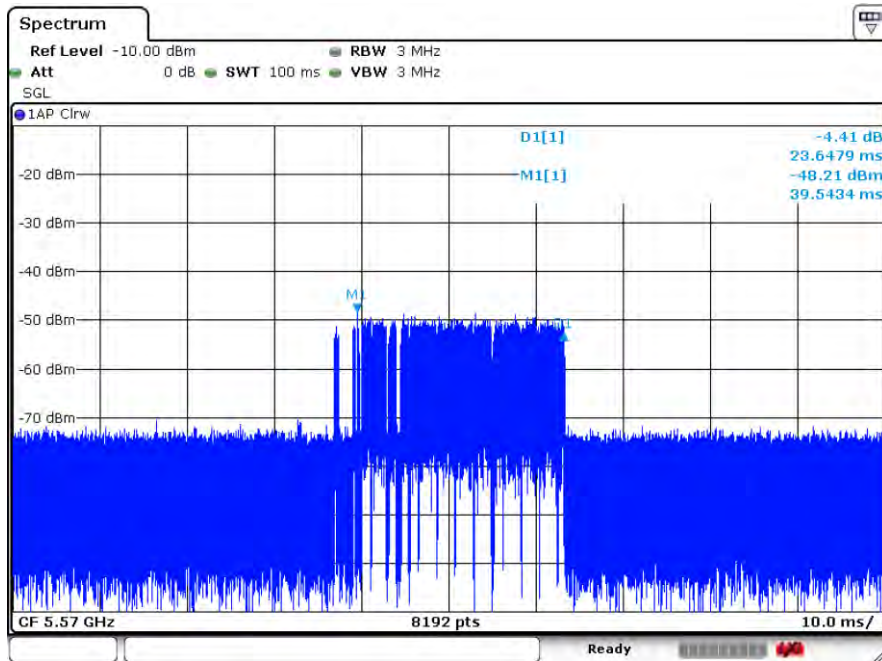
Date: 21.DEC.2022 08:18:47

5530 MHz, 80MHz Bandwidth



Date: 21 DEC 2022 09:22:01

5570MHz, 160MHz Bandwidth

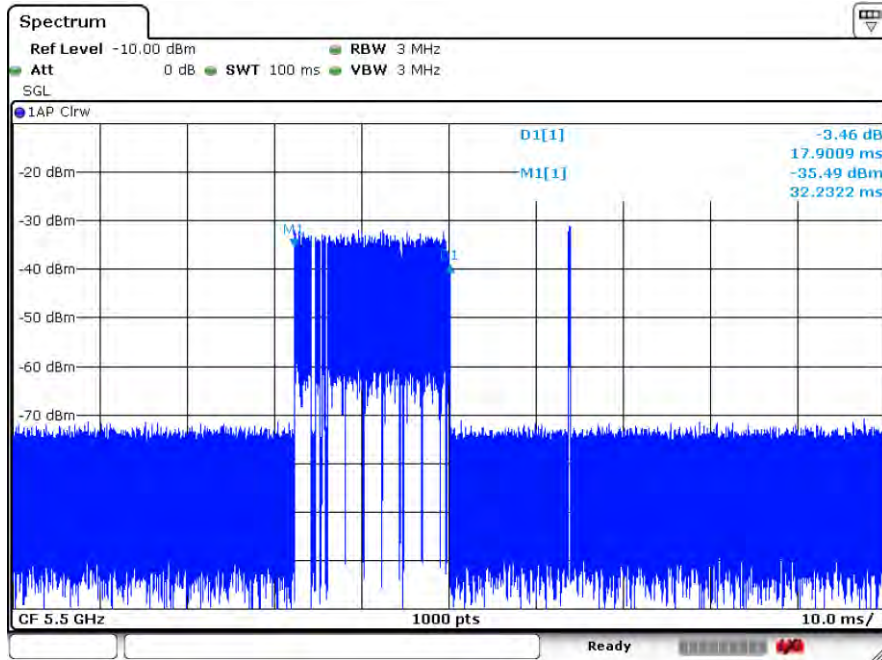


Date: 21 DEC 2022 10:41:24

The Duty Cycle of the traffic is greater than 17%

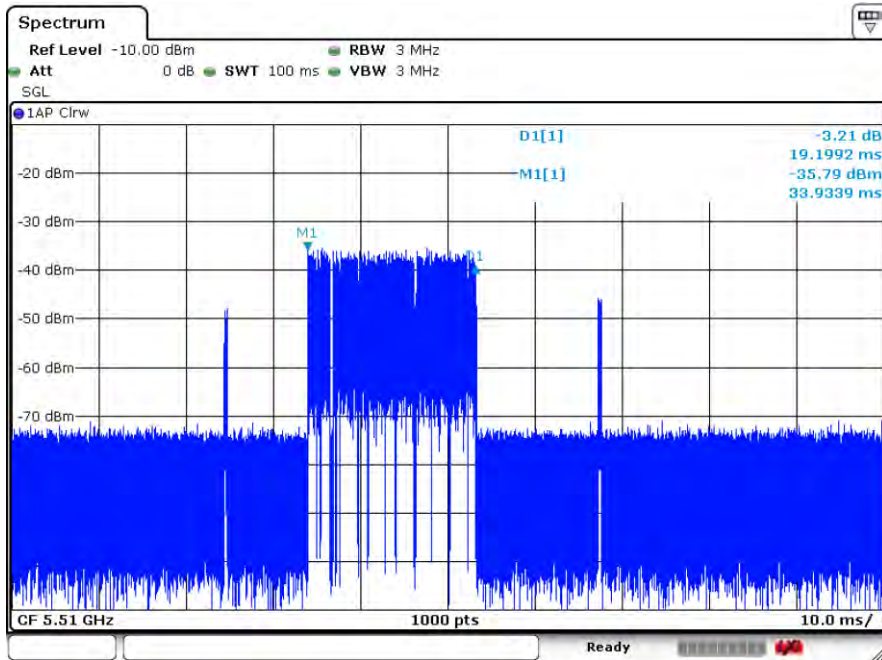
P2MP Master Mode Iron Radio

5500 MHz, 20MHz Bandwidth



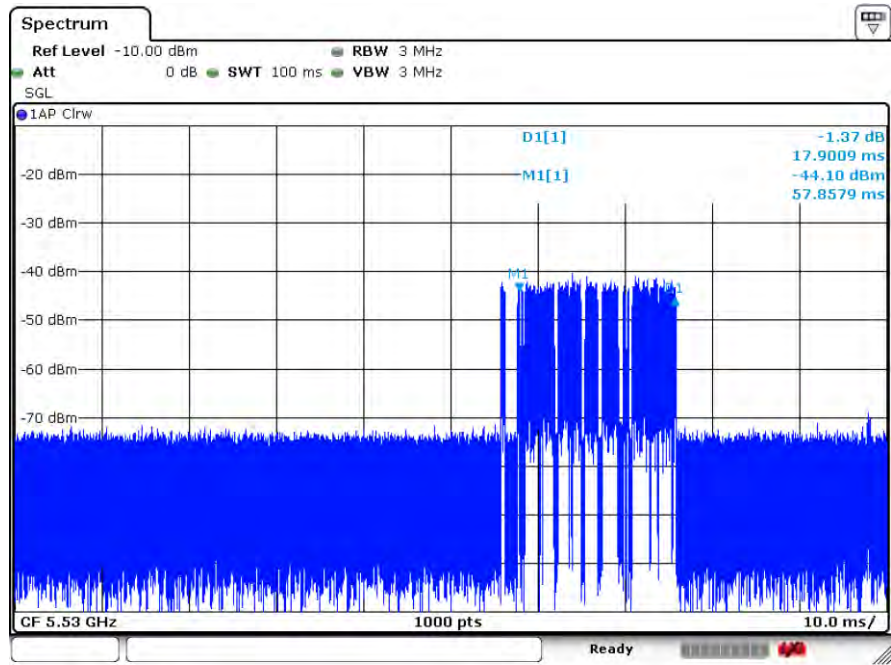
Date: 22 DEC 2022 09:27:21

5510MHz, 40MHz Bandwidth



Date: 22 DEC 2022 09:55:50

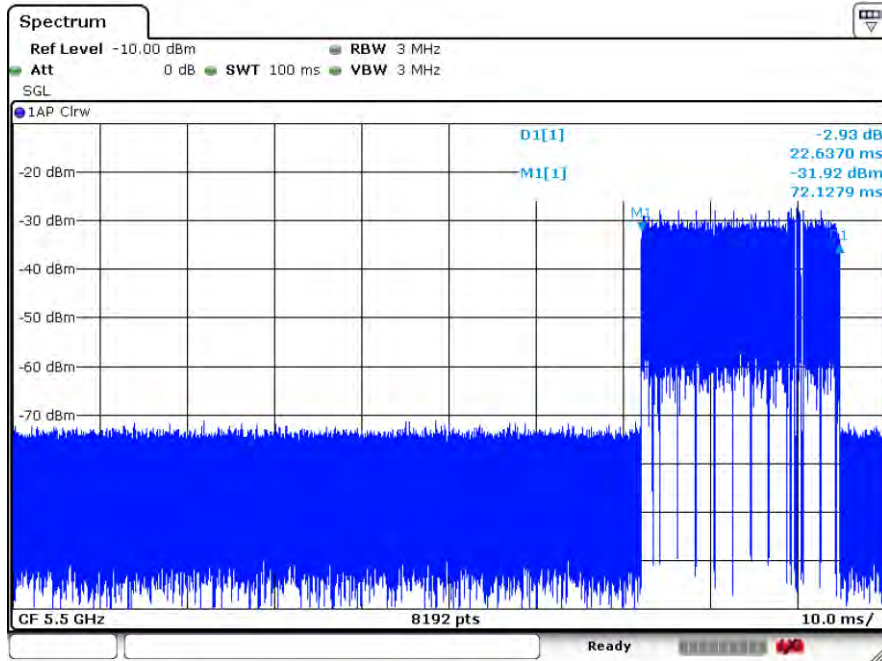
5530 MHz, 80MHz Bandwidth



Date: 22 DEC 2022 11:40:38

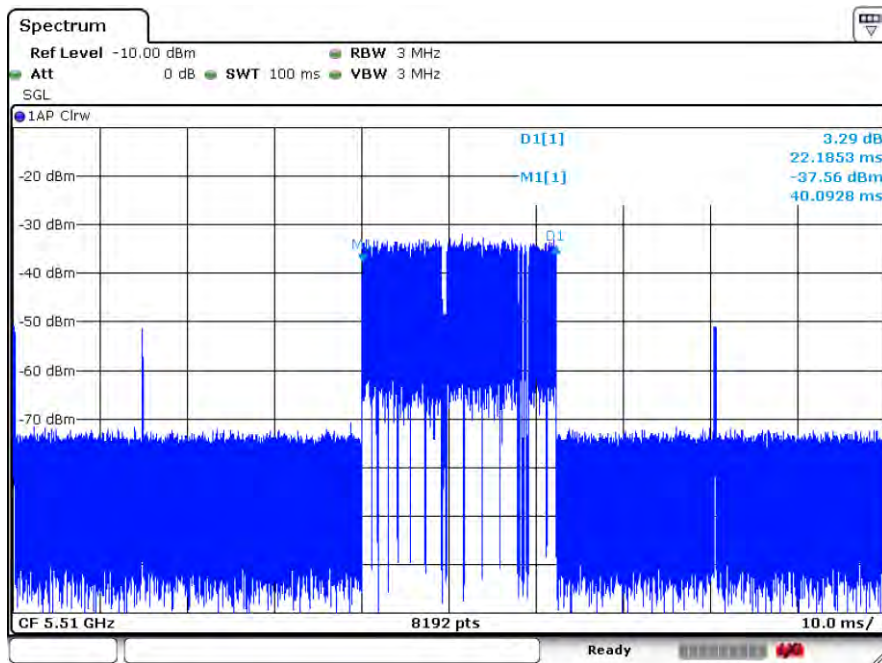
The Duty Cycle of the traffic is greater than 17%

Pine Radio 5500 MHz, 20MHz Bandwidth



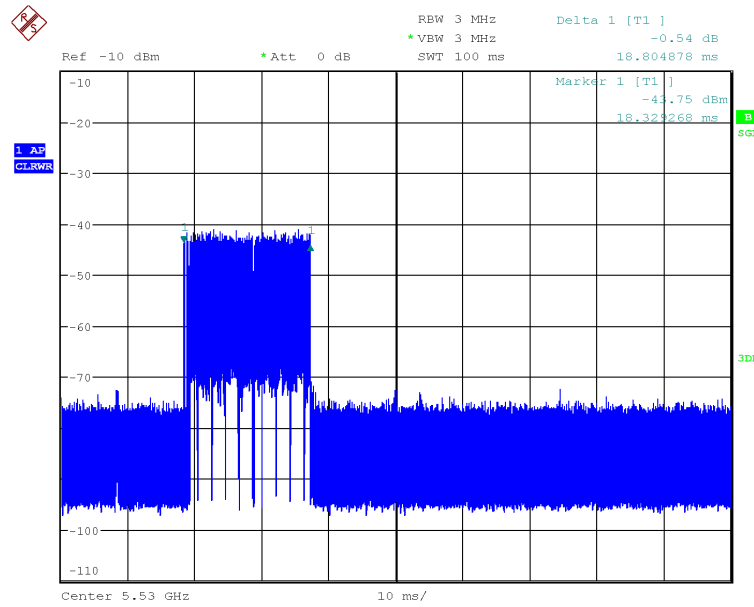
Date: 21.DEC.2022 11:33:12

5510MHz, 40MHz Bandwidth



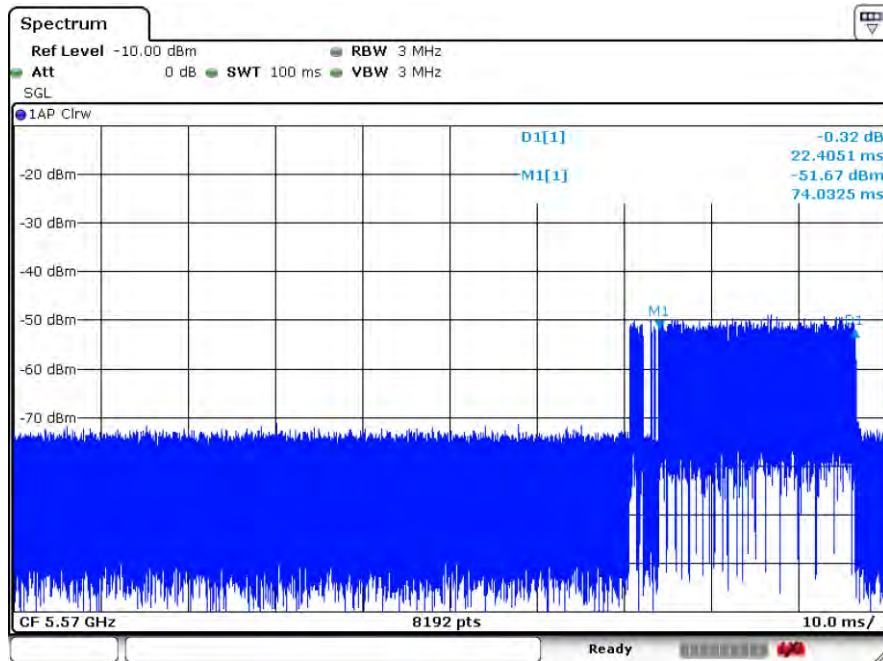
Date: 21.DEC.2022 13:21:45

5500 MHz, 80MHz Bandwidth



Date: 1.JAN.2003 19:15:08

5570MHz, 160MHz Bandwidth

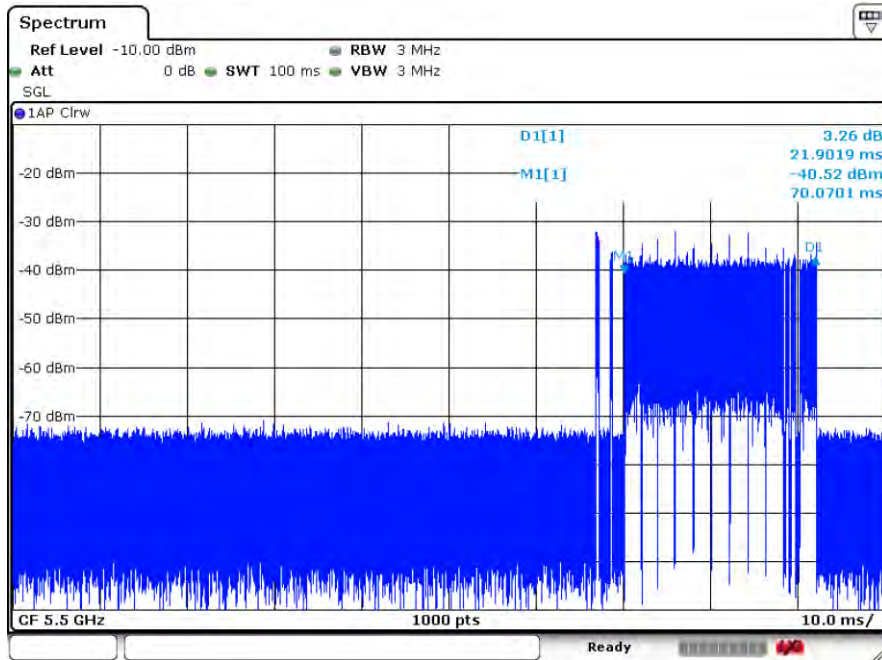


Date: 21.DEC.2022 15:07:49

The Duty Cycle of the traffic is greater than 17%

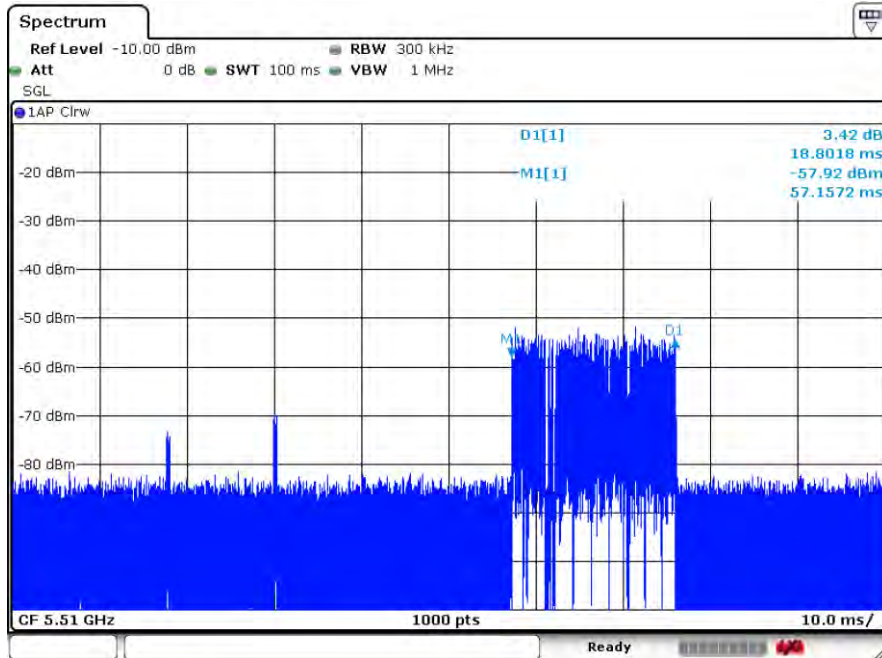
P2MP Client Mode Iron Radio

5500 MHz, 20MHz Bandwidth



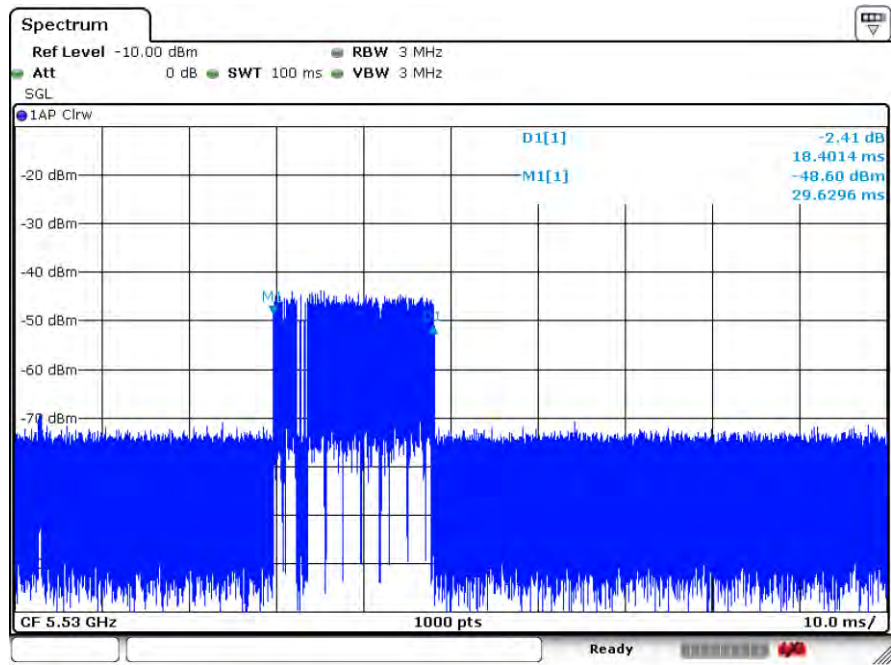
Date: 22 DEC.2022 13:09:37

5510MHz, 40MHz Bandwidth



Date: 22 DEC.2022 13:49:20

5500 MHz, 80MHz Bandwidth

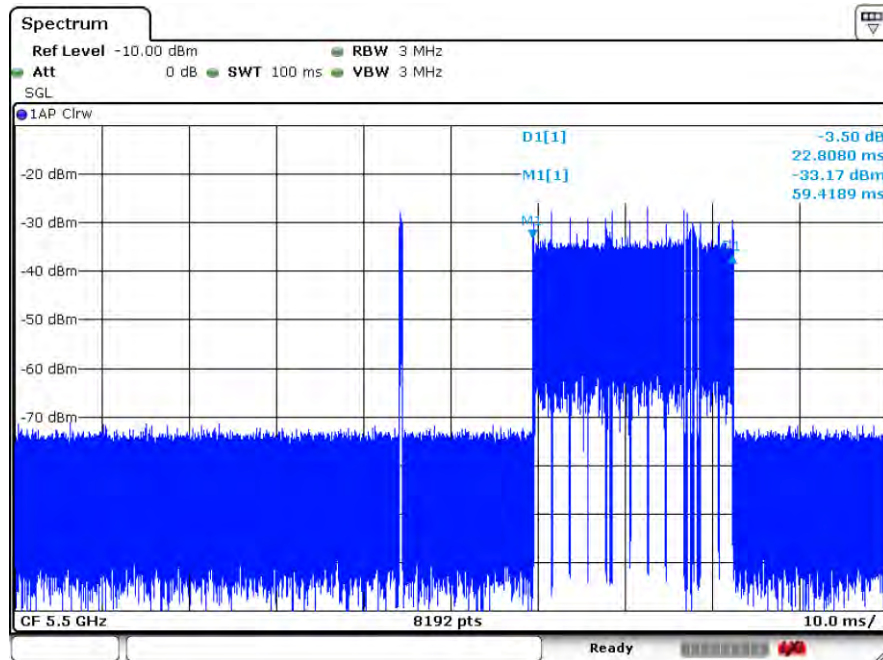


Date: 22 DEC 2022 15:15:47

The Duty Cycle of the traffic is greater than 17%

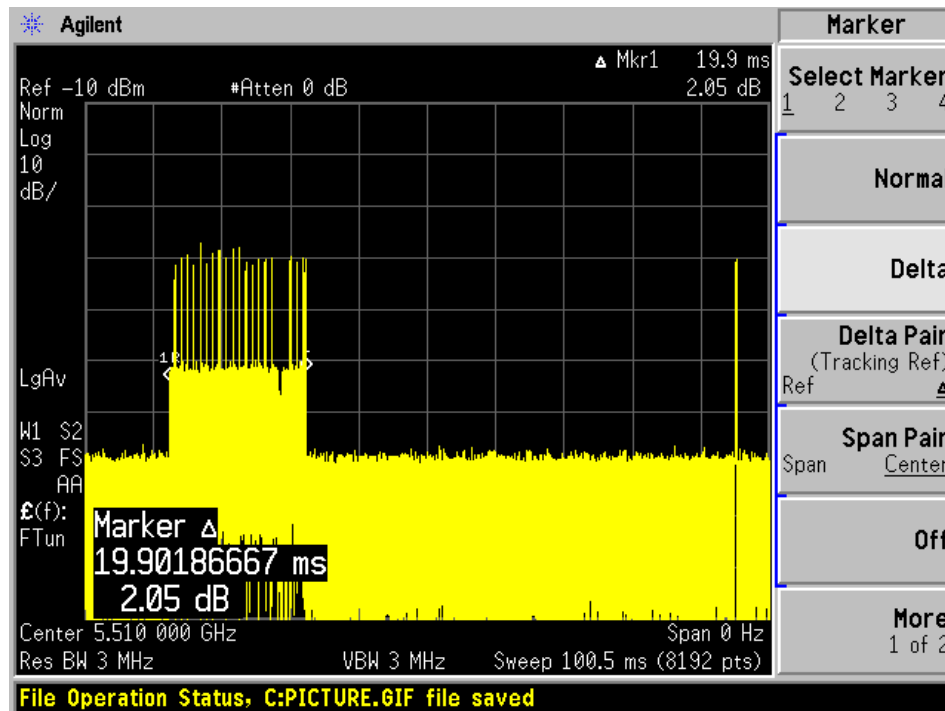
Pine Radio

5500 MHz, 20MHz Bandwidth

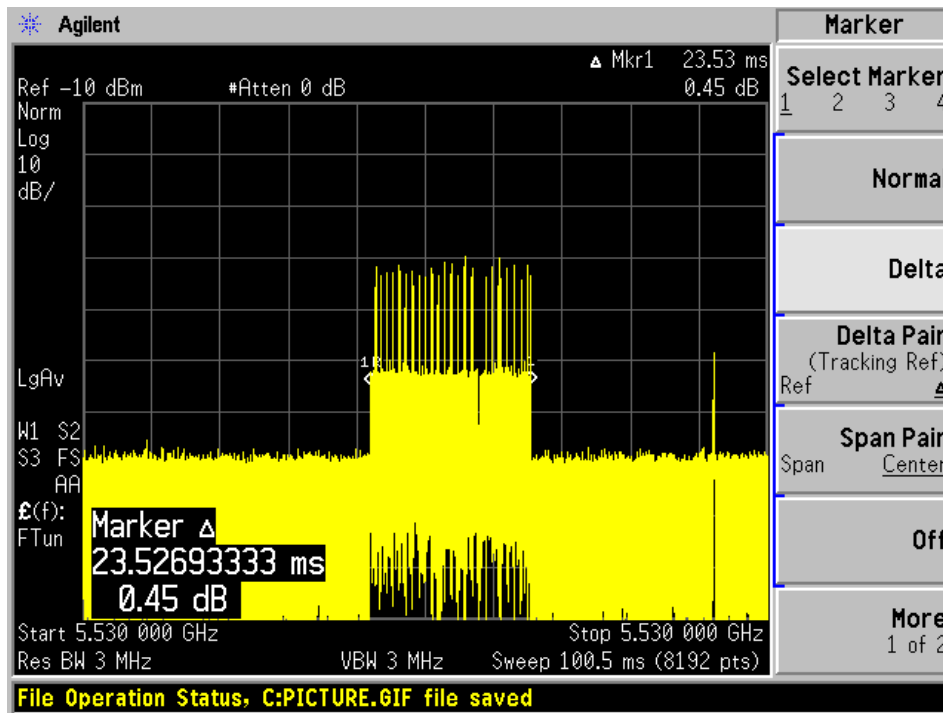


Date: 27 DEC 2022 08:29:04

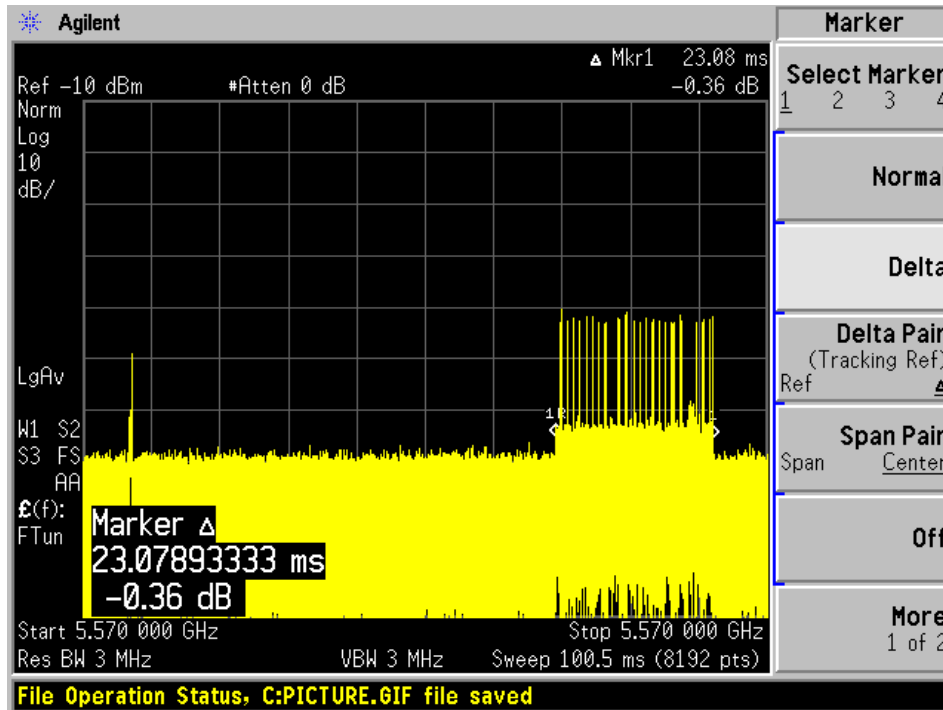
5510MHz, 40MHz Bandwidth



5500 MHz, 80MHz Bandwidth



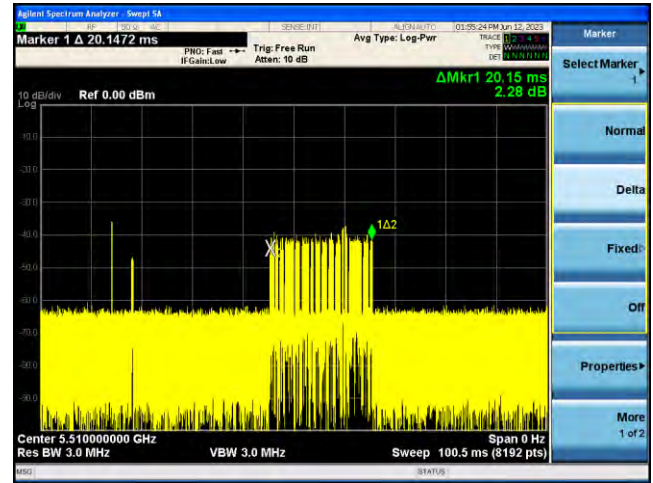
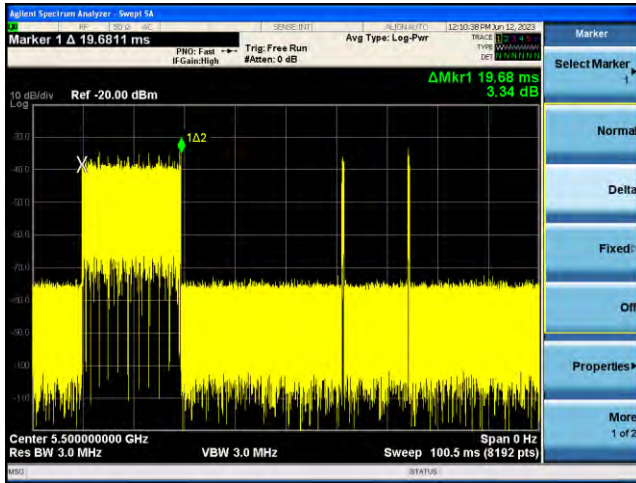
5510MHz, 160MHz Bandwidth



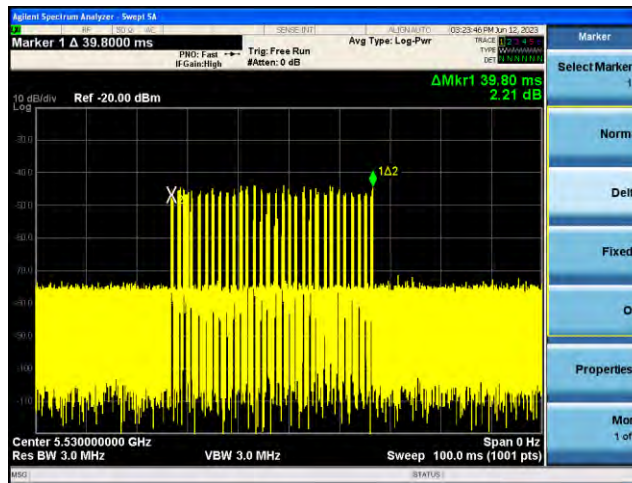
The Duty Cycle of the traffic is greater than 17%

WGB Mode Iron Radio

5500 MHz, 20MHz Bandwidth ----- 5510 MHz, 40MHz Bandwidth



5530 MHz, 80MHz Bandwidth



The Duty Cycle of the traffic was greater than 17%

Note: For 80MHz, Duty Cycle is estimated to be $(39.80 \text{ ms}/2)/100 \text{ ms} * 100\% = 19.9\%$

6 Channel Availability Check Time (CAC)

6.1 Test Procedure

Master Mode procedure

- 1) Using TeraTerm to send commands to the EUT and using commands provided by the manufacturer, set mode to *AP/P2P/P2MP mode*, channel to *channel 100* with center frequency at *5500 MHz*, and channel bandwidth to *20MHz*. After transmission begin, send the reboot command to power cycle the device. Measure and record the total time for the power cycle time and CAC time. Use the total time minus 60 seconds to determine the power cycle time.
- 2) Reboot the EUT again, apply a radar signal within 0~6 seconds after power cycle time ended, monitor the transmissions on channel from the spectrum analyzer. Check no transmission for 2.5 minutes after radar detection.
- 3) Reboot EUT, apply a radar signal within 54~60 seconds after the power cycle time ended, and monitor the transmission on channel from the spectrum analyzer. Check no transmission for 2.5 minutes after radar detection.

6.2 Results:

AP Mode

Iron Radio

Timing of Radar Burst	Spectrum Analyzer Display	Result
No Radar Triggered	Total CAC Period 60 second	Pass
Within 6 seconds of the CAC starting	No transmission	Pass
Within the last 6 seconds of the CAC	No transmission	Pass

Pine Radio

Timing of Radar Burst	Spectrum Analyzer Display	Result
No Radar Triggered	Total CAC Period 60 second	Pass
Within 6 seconds of the CAC starting	No transmission	Pass
Within the last 6 seconds of the CAC	No transmission	Pass

P2P Mode**Iron Radio**

Timing of Radar Burst	Spectrum Analyzer Display	Result
No Radar Triggered	Total CAC Period 60 second	Pass
Within 6 seconds of the CAC starting	No transmission	Pass
Within the last 6 seconds of the CAC	No transmission	Pass

Pine Radio

Timing of Radar Burst	Spectrum Analyzer Display	Result
No Radar Triggered	Total CAC Period 60 second	Pass
Within 6 seconds of the CAC starting	No transmission	Pass
Within the last 6 seconds of the CAC	No transmission	Pass

P2MP Master Mode**Iron Radio**

Timing of Radar Burst	Spectrum Analyzer Display	Result
No Radar Triggered	Total CAC Period 60 second	Pass
Within 6 seconds of the CAC starting	No transmission	Pass
Within the last 6 seconds of the CAC	No transmission	Pass

Pine Radio

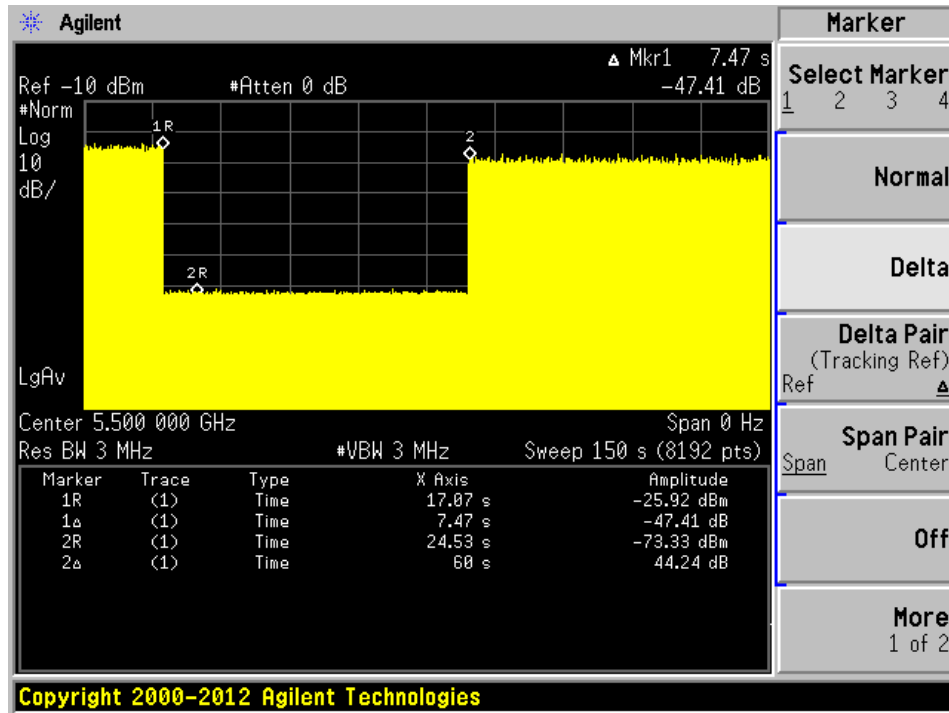
Timing of Radar Burst	Spectrum Analyzer Display	Result
No Radar Triggered	Total CAC Period 60 second	Pass
Within 6 seconds of the CAC starting	No transmission	Pass
Within the last 6 seconds of the CAC	No transmission	Pass

Please refer to the following plots.

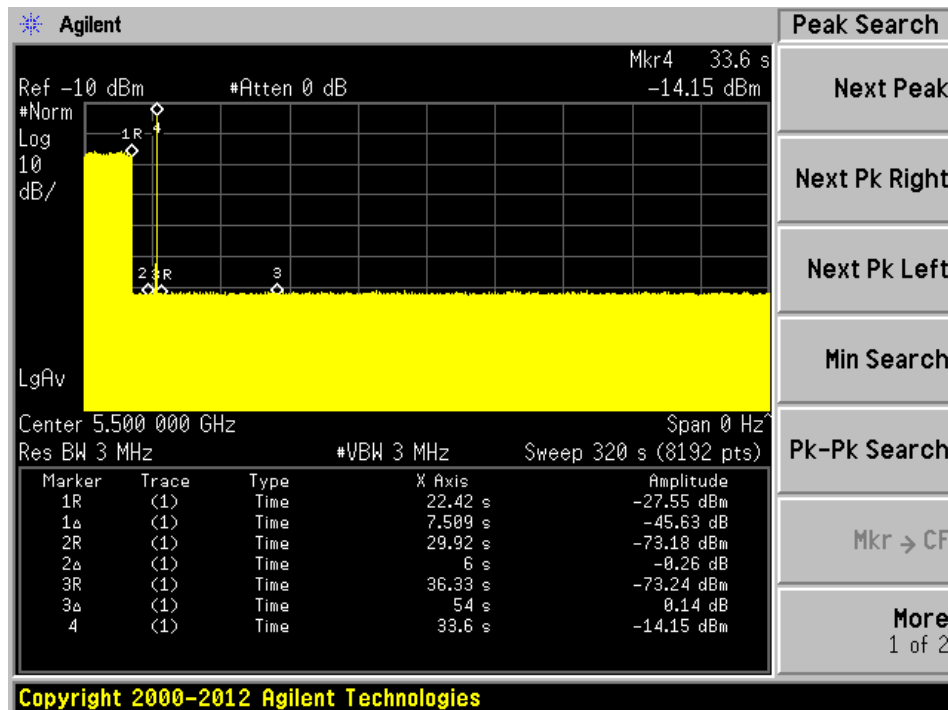
**AP Mode
Iron Radio**

5500 MHz, 20MHz Channel Bandwidth

Plot of Power Cycle + CAC Time Period

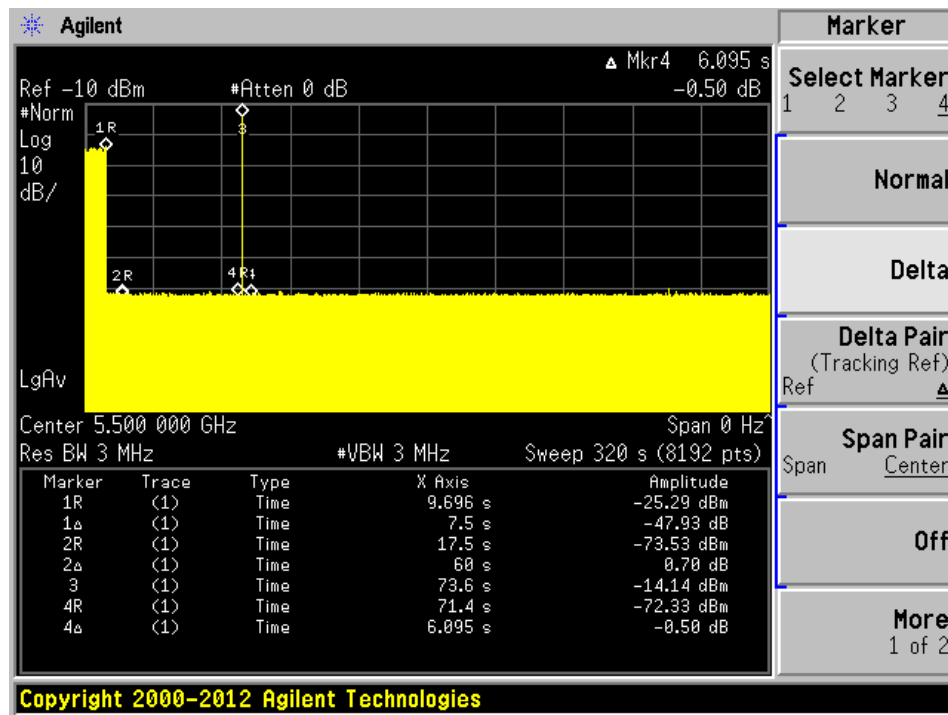


Plot of Radar signal applied within 6 seconds of start of CAC



No transmissions found after radar signal applied.

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

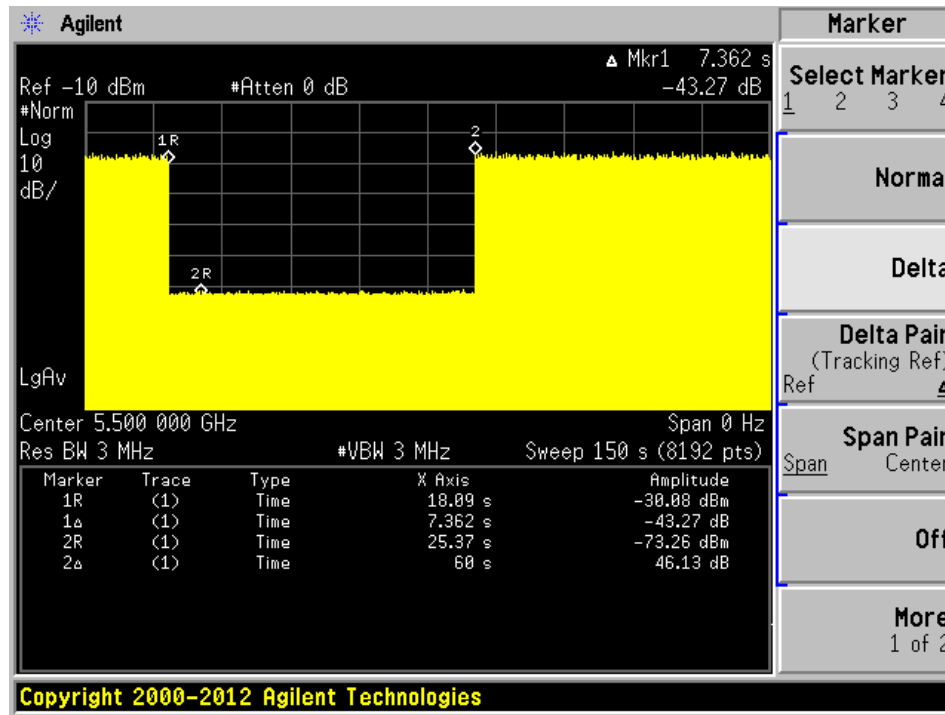


No transmissions found after radar signal applied.

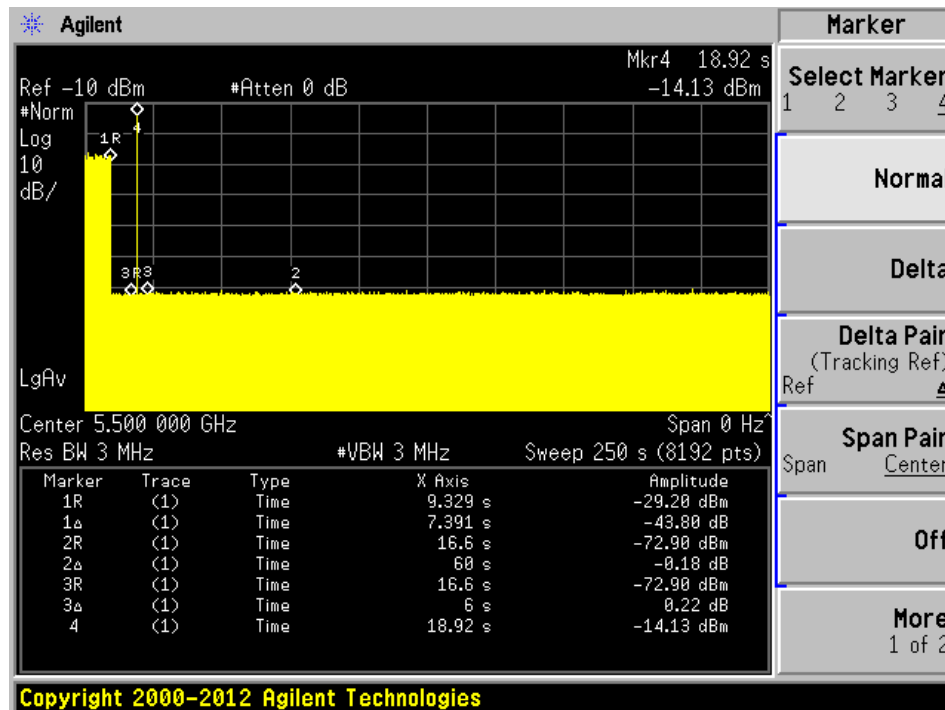
Pine Radio

5500 MHz, 20MHz Channel Bandwidth

Plot of Power Cycle + CAC Time Period

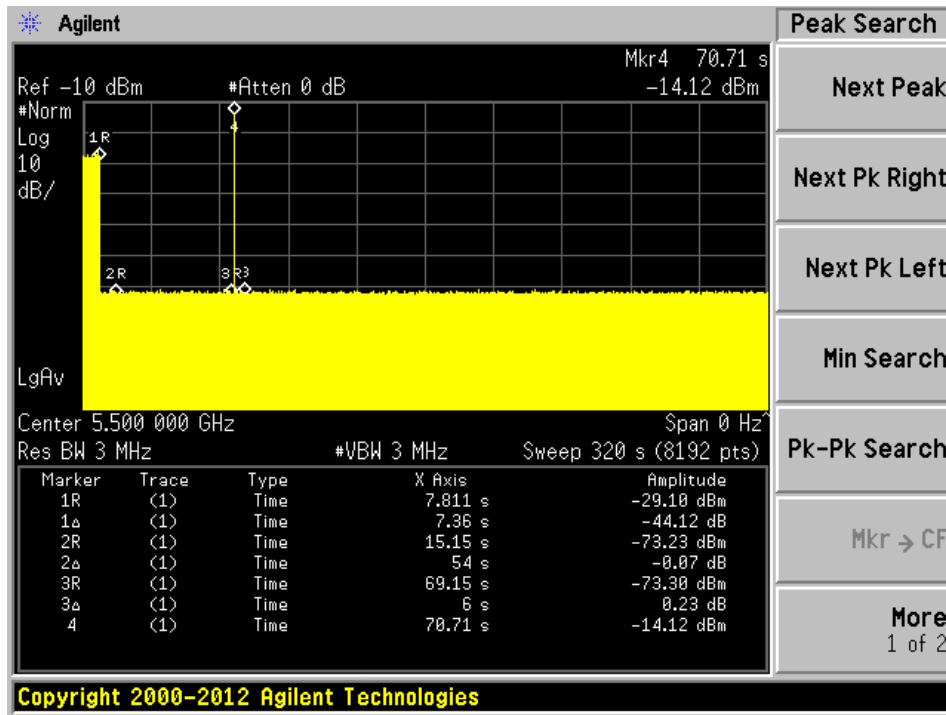


Plot of Radar signal applied within 6 seconds of start of CAC



No transmissions found after radar signal applied.

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

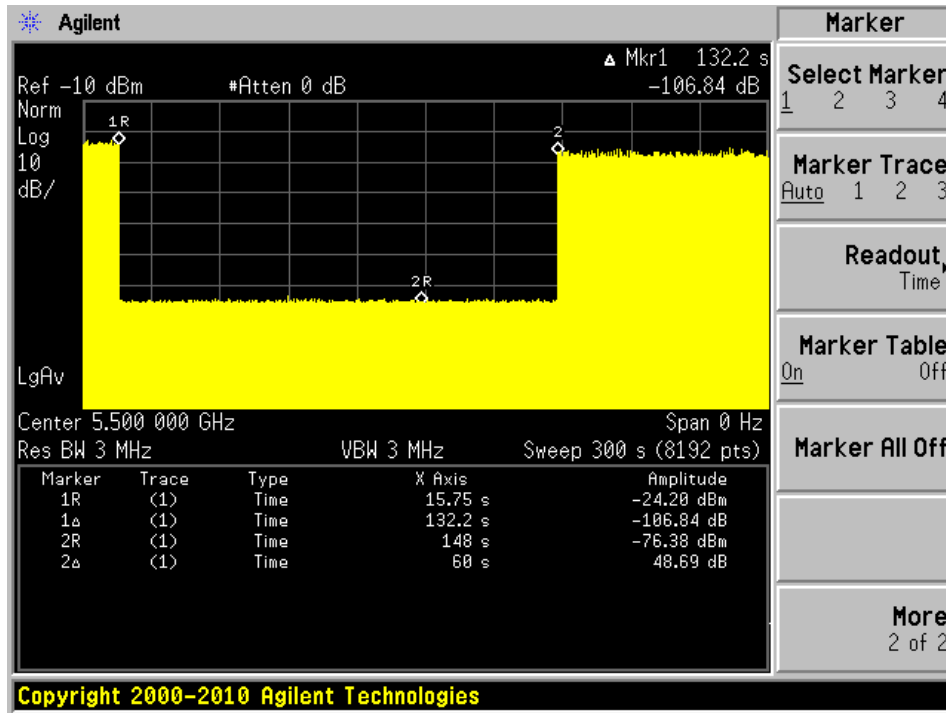


No transmissions found after radar signal applied.

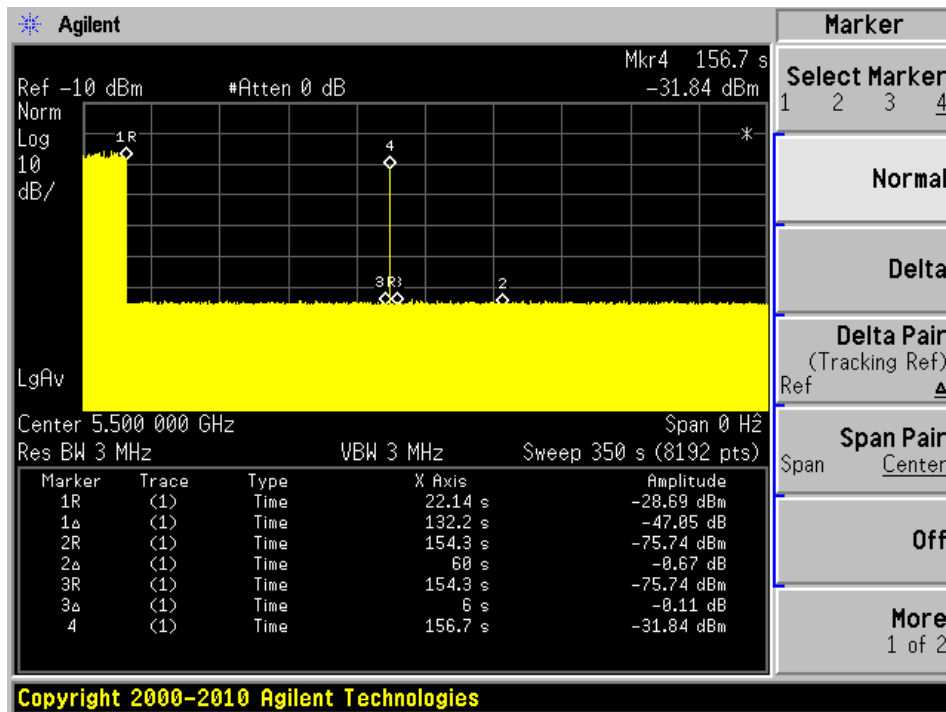
**P2P Mode
Iron Radio**

5500 MHz, 20MHz Channel Bandwidth

Plot of Power Cycle + CAC Time Period

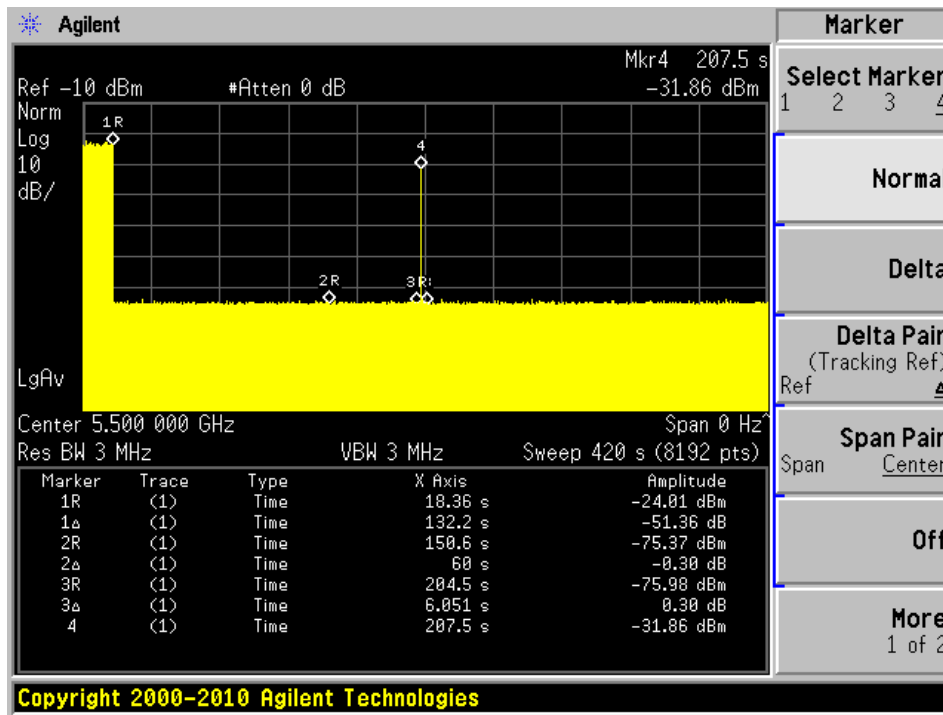


Plot of Radar signal applied within 6 seconds of start of CAC



No transmissions found after radar signal applied.

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

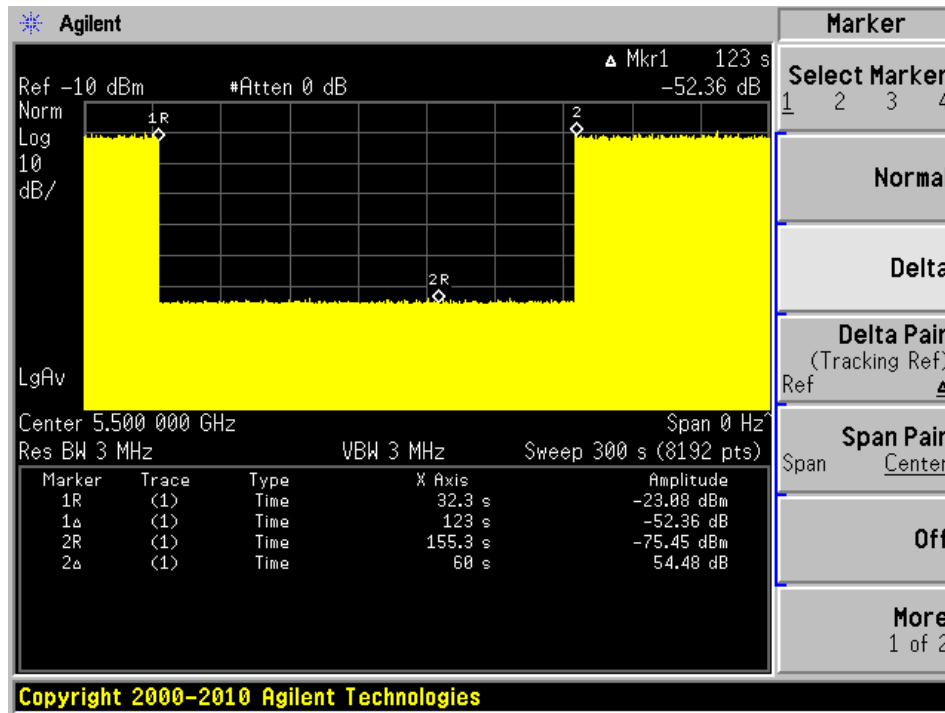


No transmissions found after radar signal applied.

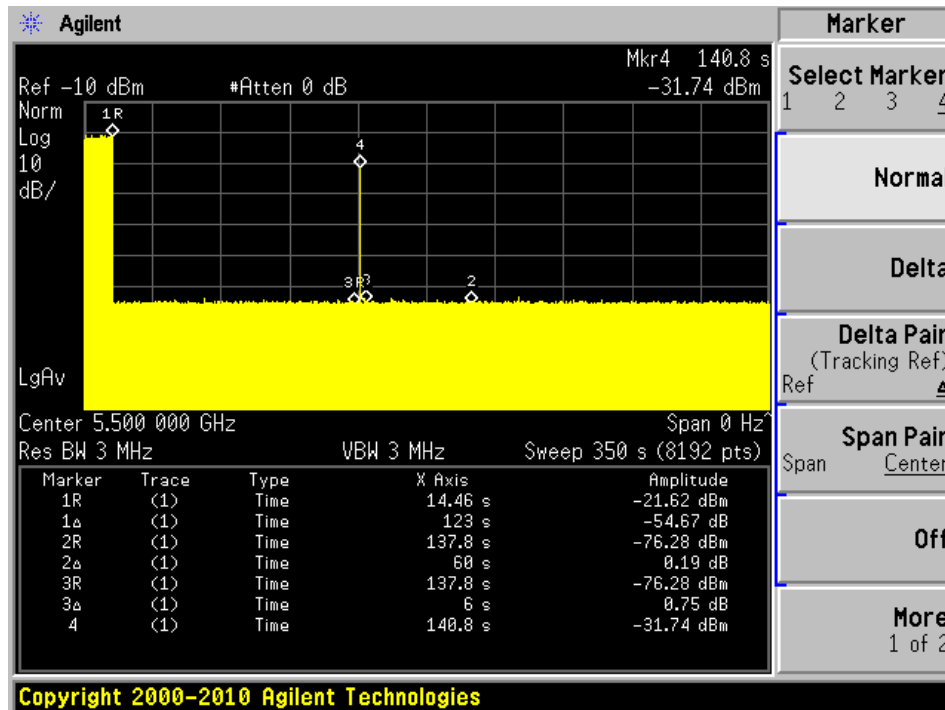
Pine Radio

5500 MHz, 20MHz Channel Bandwidth

Plot of Power Cycle + CAC Time Period

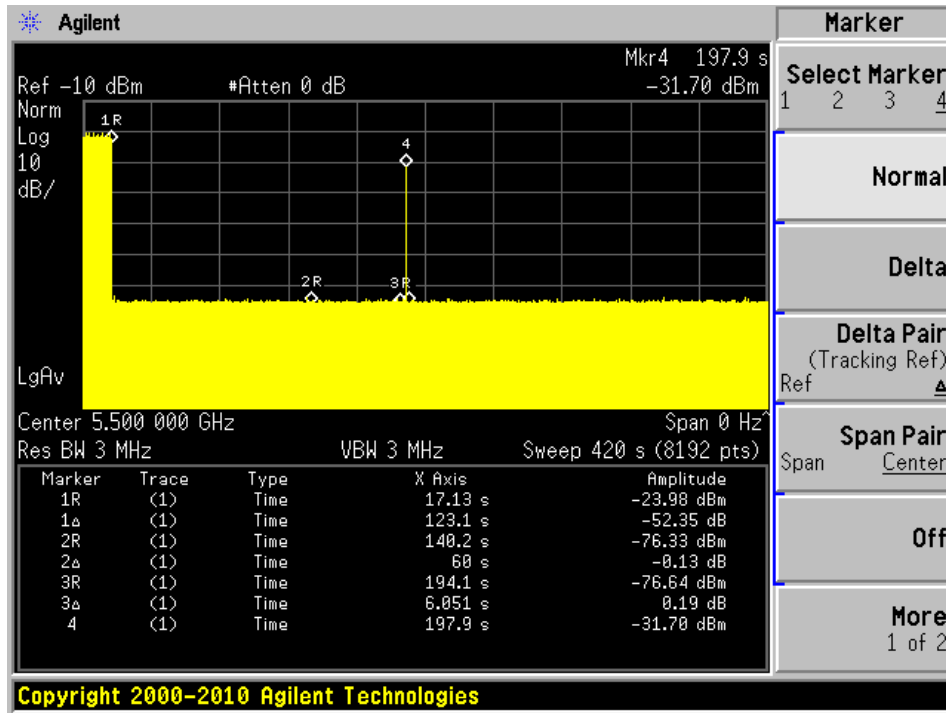


Plot of Radar signal applied within 6 seconds of start of CAC



No transmissions found after radar signal applied.

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

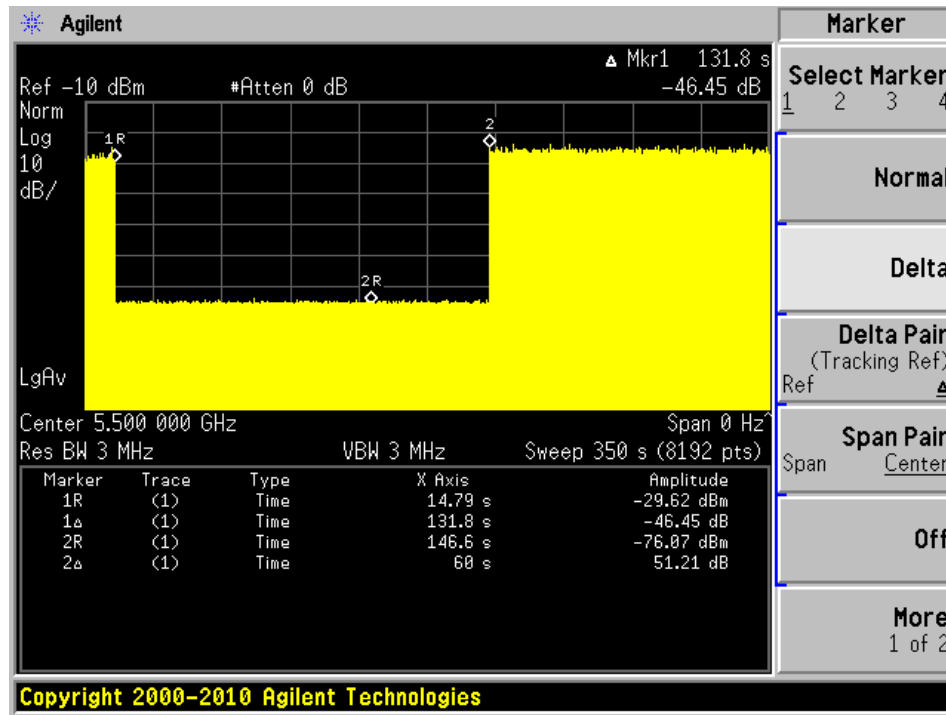


No transmissions found after radar signal applied.

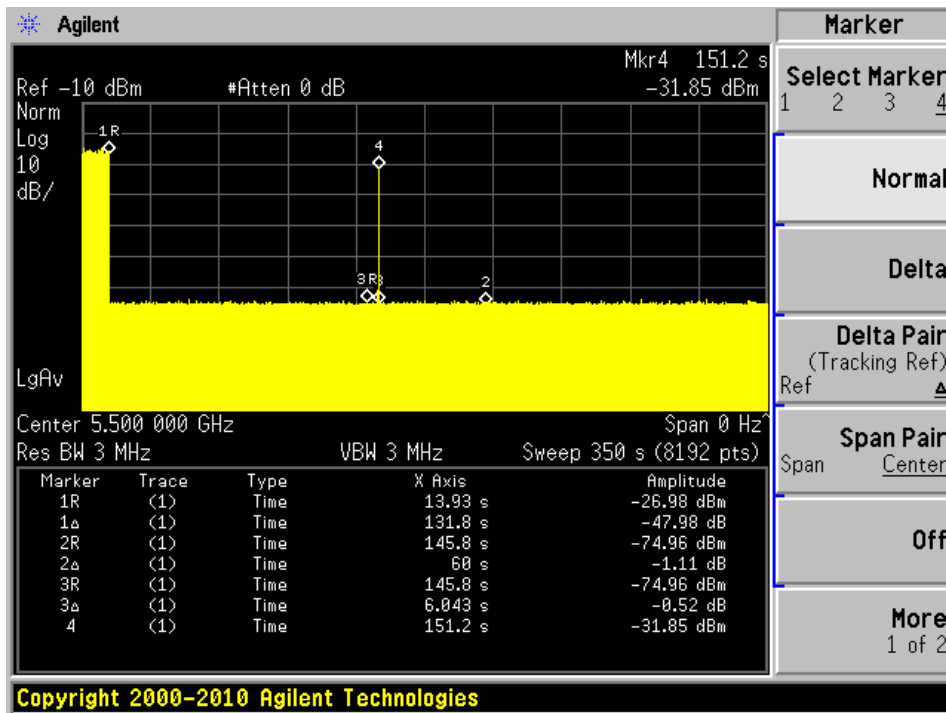
**P2MP Mode
Iron Radio**

5500 MHz, 20MHz Channel Bandwidth

Plot of Power Cycle + CAC Time Period

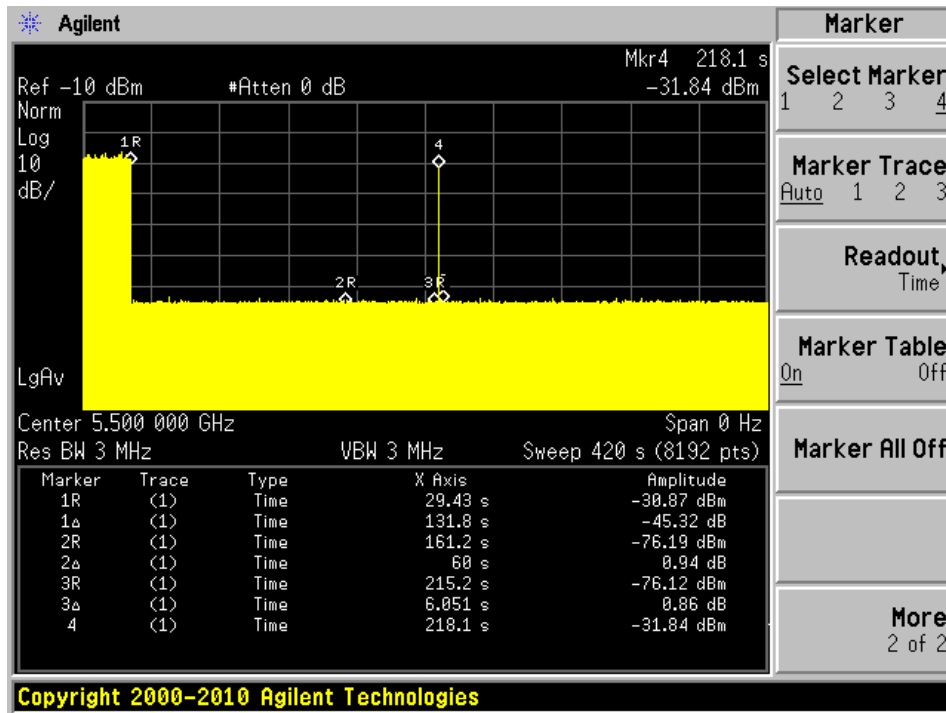


Plot of Radar signal applied within 6 seconds of start of CAC



No transmissions found after radar signal applied.

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

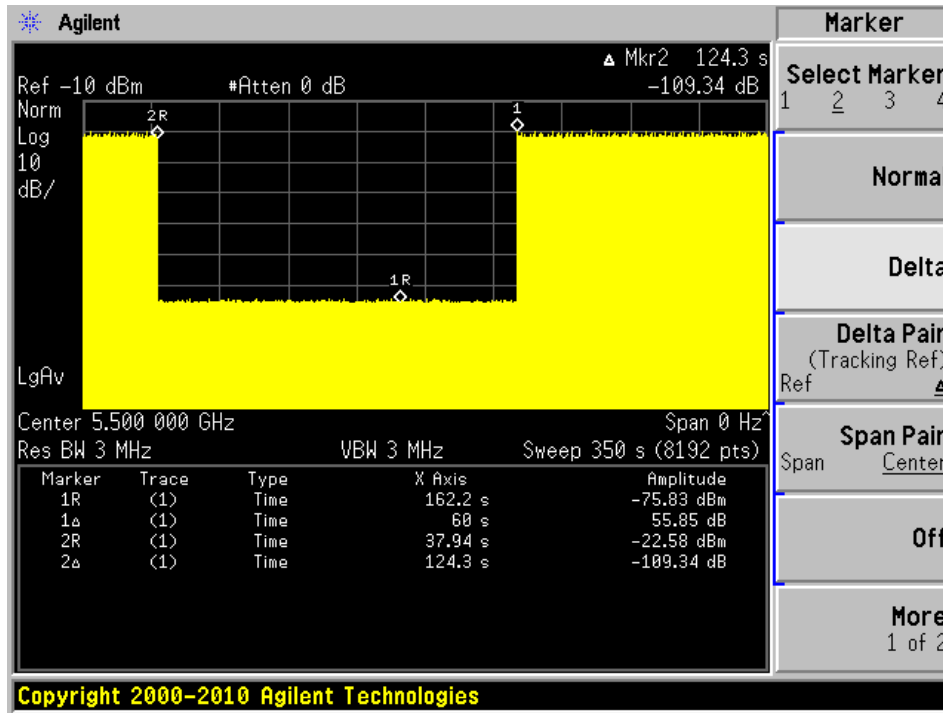


No transmissions found after radar signal applied.

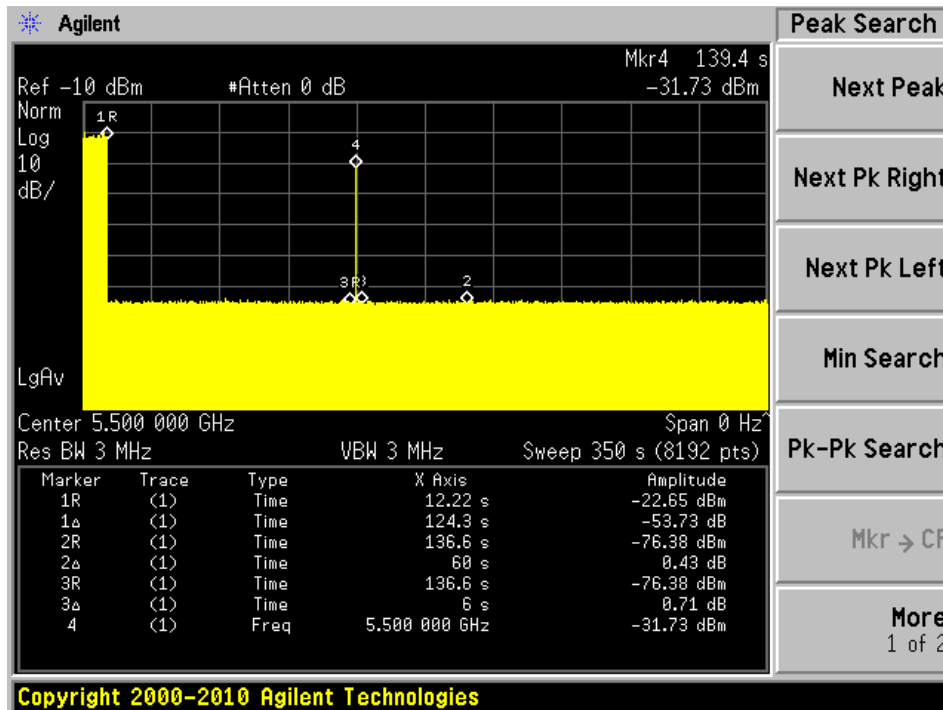
Pine Radio

5500 MHz, 20MHz Channel Bandwidth

Plot of Power Cycle + CAC Time Period

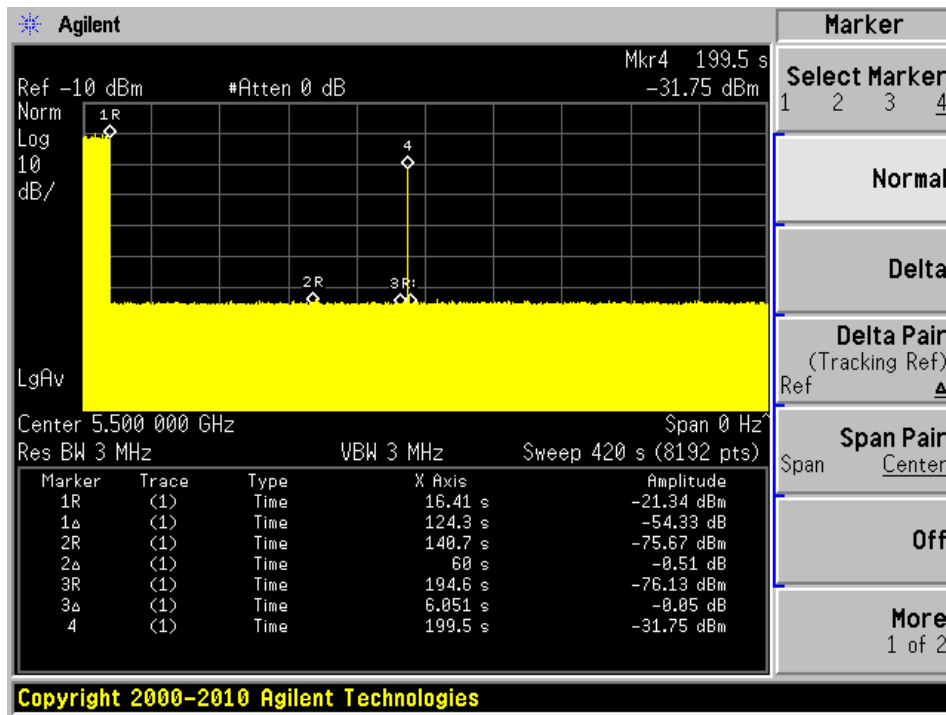


Plot of Radar signal applied within 6 seconds of start of CAC



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

AP Mode

Iron Radio

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

Pine Radio

Frequency (MHz)	Bandwidth (MHz)	Radar Type	Results
5570	160	Type 0	Compliant

P2P Mode

Iron Radio

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

Pine Radio

Frequency (MHz)	Bandwidth (MHz)	Radar Type	Results
5570	160	Type 0	Compliant

P2MP Master Mode**Iron Radio**

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

Pine Radio

Frequency (MHz)	Bandwidth (MHz)	Radar Type	Results
5570	160	Type 0	Compliant

P2MP Client Mode**Iron Radio**

Frequency (MHz)	Detecting Mode	Bandwidth (MHz)	Radar Type	Results
5530	Master-Detecting	80	Type 0	Compliant
5530	Client-Detecting	80	Type 0	Compliant

Pine Radio

Frequency (MHz)	Detecting Mode	Bandwidth (MHz)	Radar Type	Results
5570	Master-Detecting	160	Type 0	Compliant
5570	Client-Detecting	160	Type 0	Compliant

Please refer to the following tables and plots.

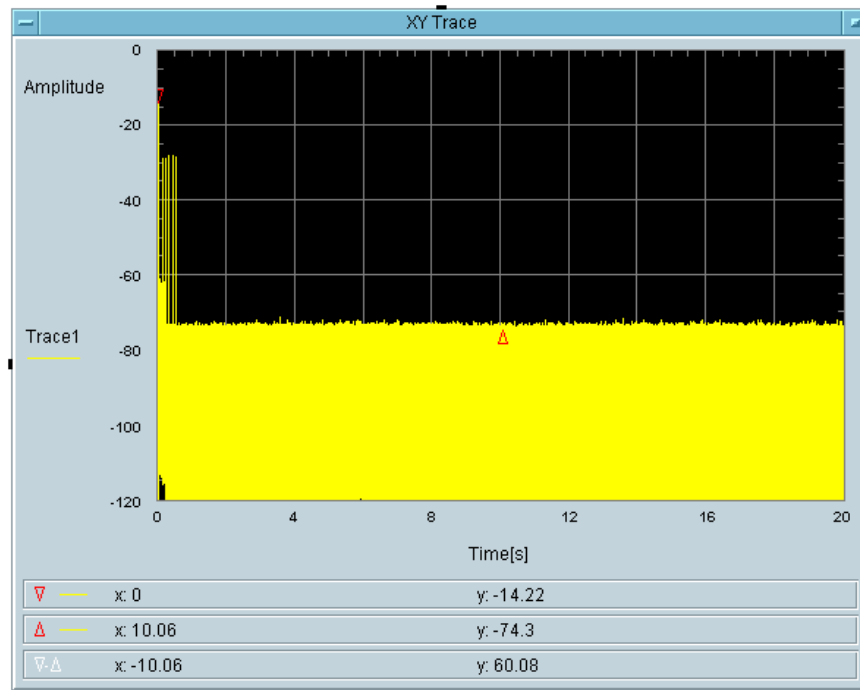
**AP Mode
Iron Radio**

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
112.3+12.21	200+60	Pass

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



Total On Time [s]
0.1123

Total On Time After Delay [s]
12.21m

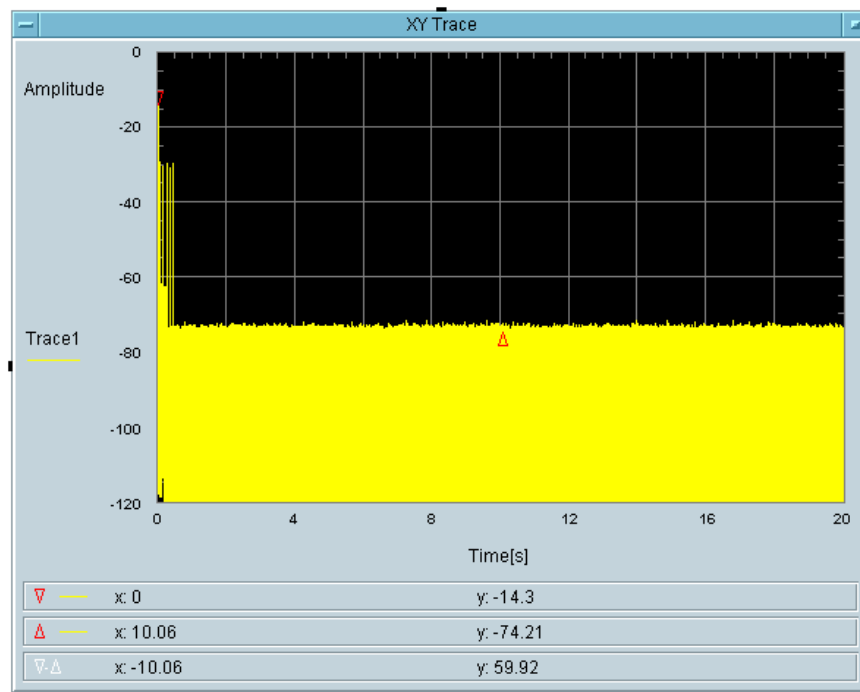
**AP Master Mode
Pine Radio**

5570 MHz, Bandwidth 160 MHz

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

Channel closing transmitting time (ms)	Limit (ms)	Result
109.9+9.766	200+60	Pass

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



Total On Time [s]
0.1099

Total On Time After Delay [s]
9.766m

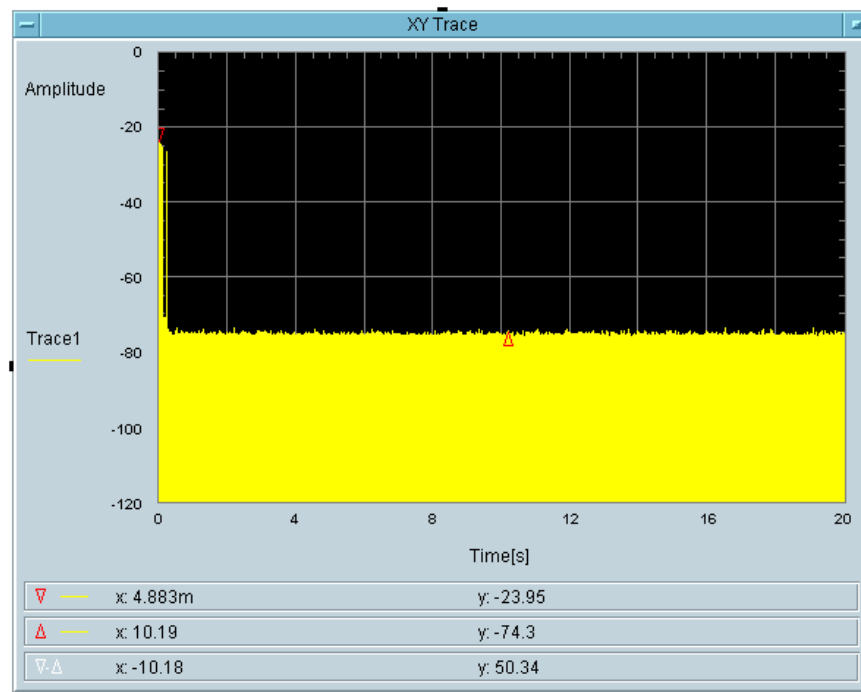
**P2P Mode
Iron Radio**

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
78.13+2.441	200+60	Pass

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



Total On Time [s]
78.13m

Total On Time After Delay [s]
2.441m

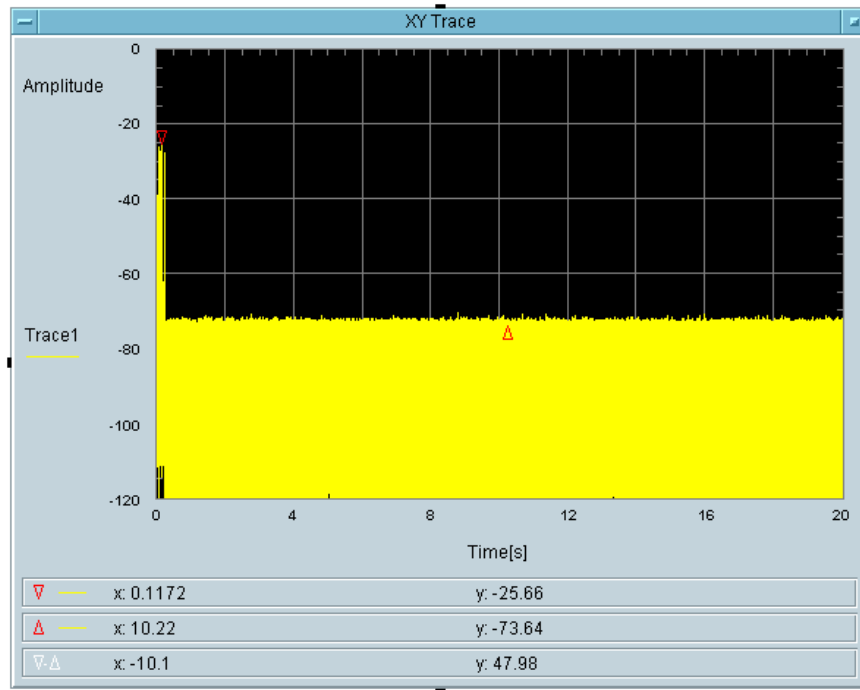
**P2P Mode
Pine Radio**

5570 MHz, Bandwidth 160 MHz

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

Channel closing transmitting time (ms)	Limit (ms)	Result
105+4.883	200+60	Pass

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



Total On Time [s]
0.105

Total On Time After Delay [s]
4.883m

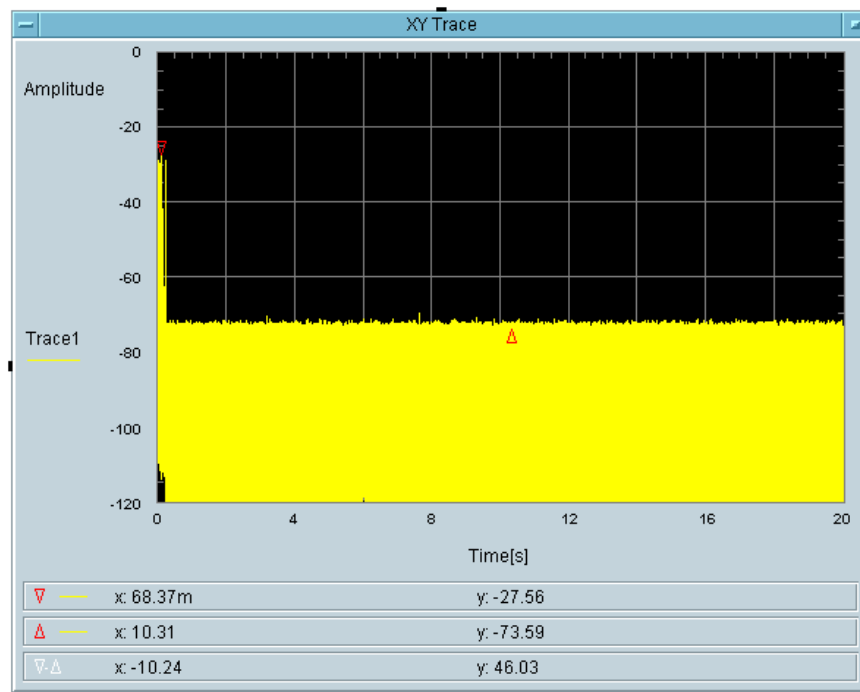
**P2MP Master Mode
Iron Radio**

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
105+4.883	200+60	Pass

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



Total On Time [s]
0.105

Total On Time After Delay [s]
4.883m

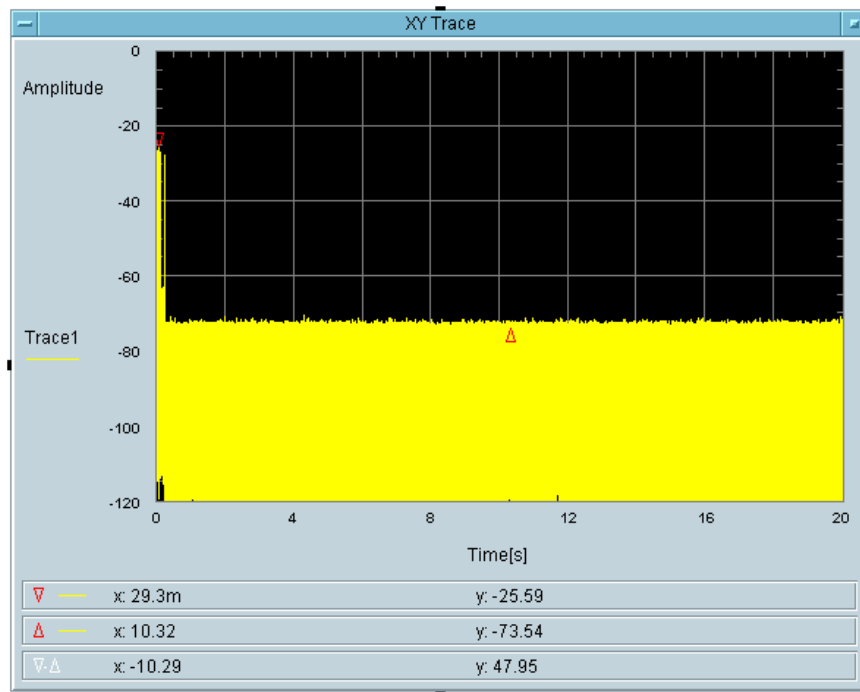
**P2MP Master Mode
Pine Radio**

5570 MHz, Bandwidth 160 MHz

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

Channel closing transmitting time (ms)	Limit (ms)	Result
107.4+7.324	200+60	Pass

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



Total On Time [s]
0.1074

Total On Time After Delay [s]
7.324m

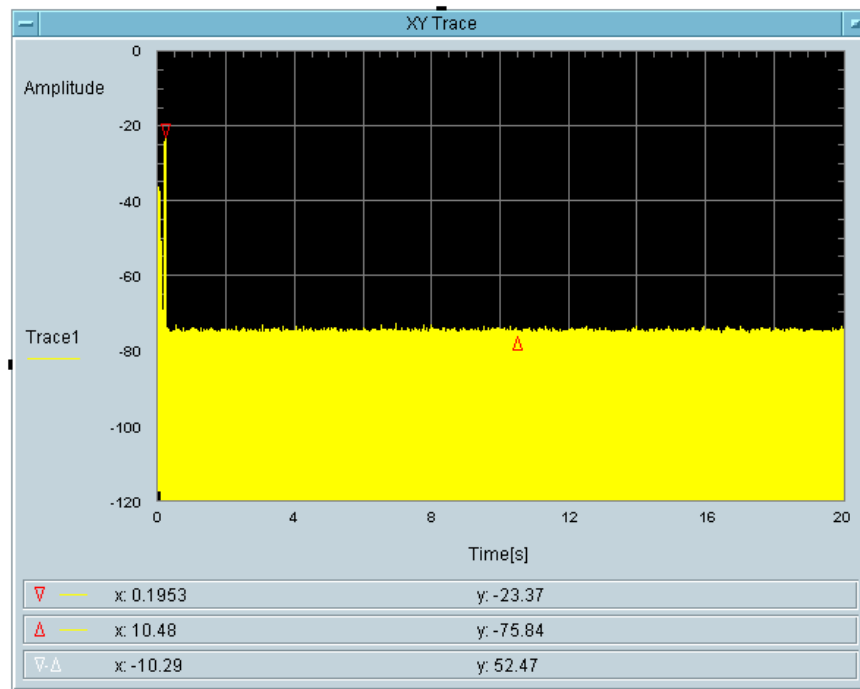
**P2MP Client Mode with Radar Waveform Directing Master Device
Iron Radio**

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
105+4.883	200+60	Pass

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



Total On Time [s]
0.105

Total On Time After Delay [s]
4.883m

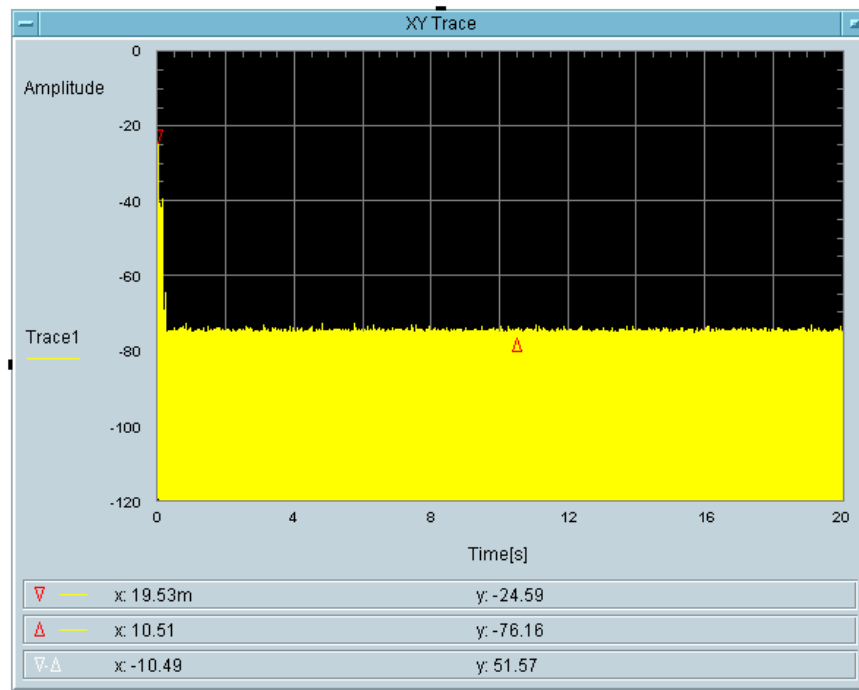
**P2MP Client Mode with Radar Waveform Directing Master Device
Pine Radio**

5570 MHz, Bandwidth 160 MHz

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

Channel closing transmitting time (ms)	Limit (ms)	Result
109.9+9.766	200+60	Pass

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



Total On Time [s]
0.1099

Total On Time After Delay [s]
9.766m

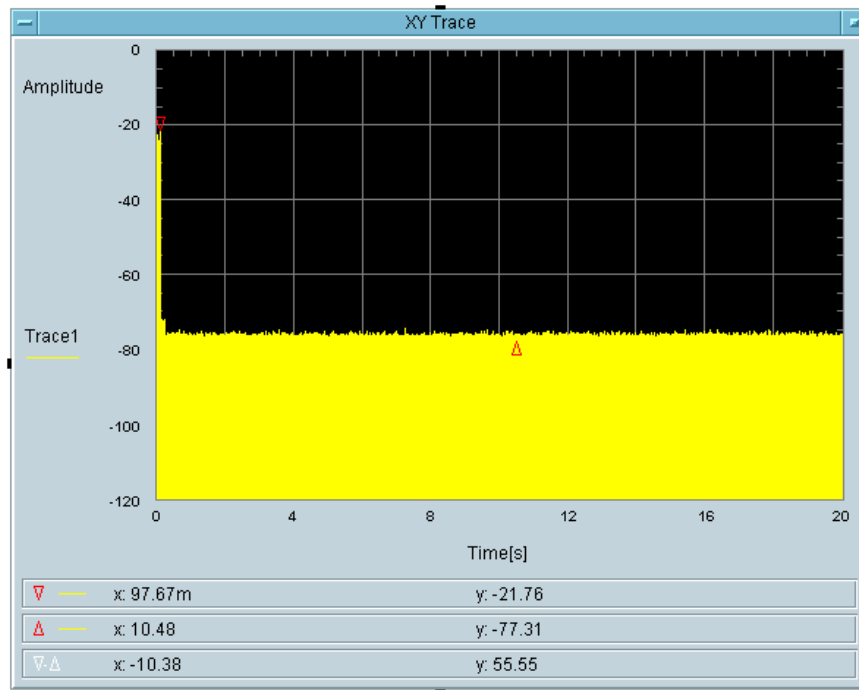
**P2MP Client Mode with Radar Waveform directing Client Device
Iron Radio**

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
85.45+2.441	200+60	Pass

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



Total On Time [s]
85.45m

Total On Time After Delay [s]
2.441m

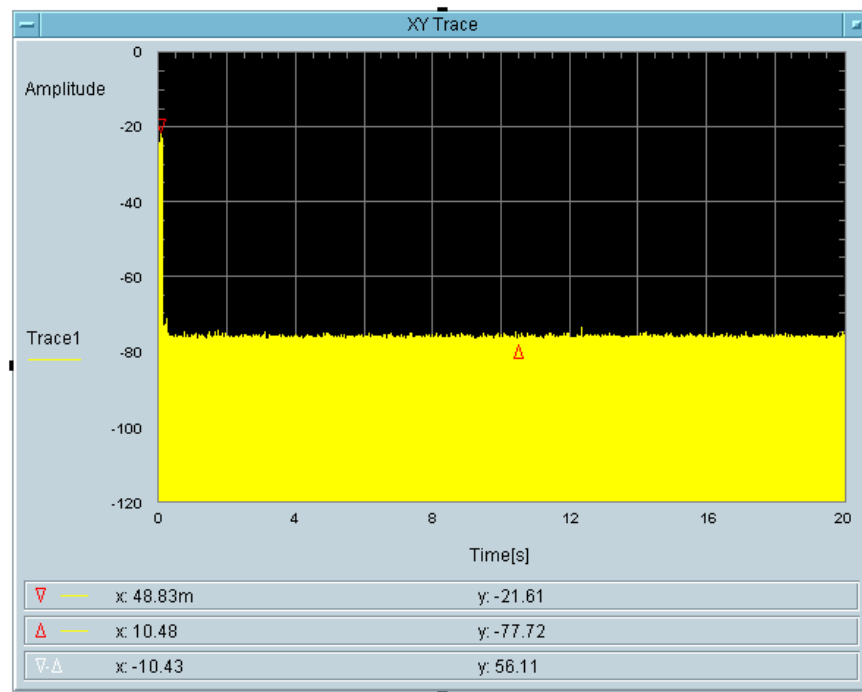
**P2MP Client Mode with Radar Waveform directing Client Device
Pine Radio**

5570 MHz, Bandwidth 160 MHz

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

Channel closing transmitting time (ms)	Limit (ms)	Result
48.83+2.441	200+60	Pass

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



Total On Time [s]
48.83m

Total On Time After Delay [s]
2.441m

8 Non-Occupancy Period

8.1 Test Procedure

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

8.2 Test Results

AP Mode

Iron Radio

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

Pine Radio

Frequency (MHz)	Bandwidth (MHz)	Spectrum Analyzer Display
5570	160	No transmission within 30 minutes

P2P Mode

Iron Radio

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

Pine Radio

Frequency (MHz)	Bandwidth (MHz)	Spectrum Analyzer Display
5570	160	No transmission within 30 minutes

P2MP Master Mode**Iron Radio**

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

Pine Radio

Frequency (MHz)	Bandwidth (MHz)	Spectrum Analyzer Display
5570	160	No transmission within 30 minutes

P2MP Client Mode**Iron Radio**

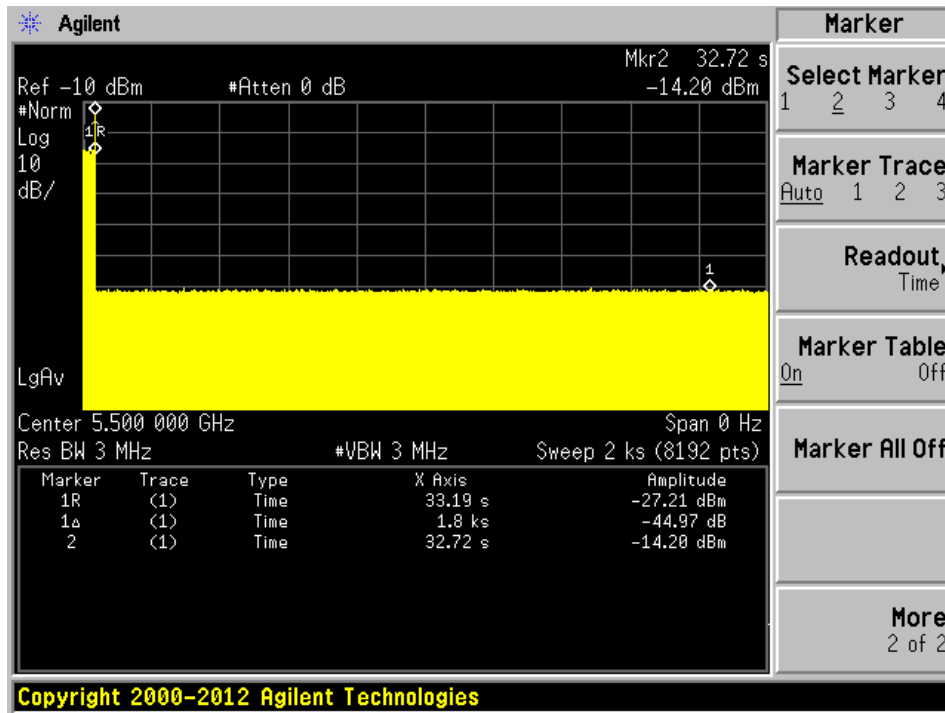
Frequency (MHz)	Detecting Mode	Bandwidth (MHz)	Spectrum Analyzer Display
5530	Master-Detecting	80	No transmission within 30 minutes
5530	Client-Detecting	80	No transmission within 30 minutes

Pine Radio

Frequency (MHz)	Detecting Mode	Bandwidth (MHz)	Spectrum Analyzer Display
5570	Master-Detecting	160	No transmission within 30 minutes
5570	Client-Detecting	160	No transmission within 30 minutes

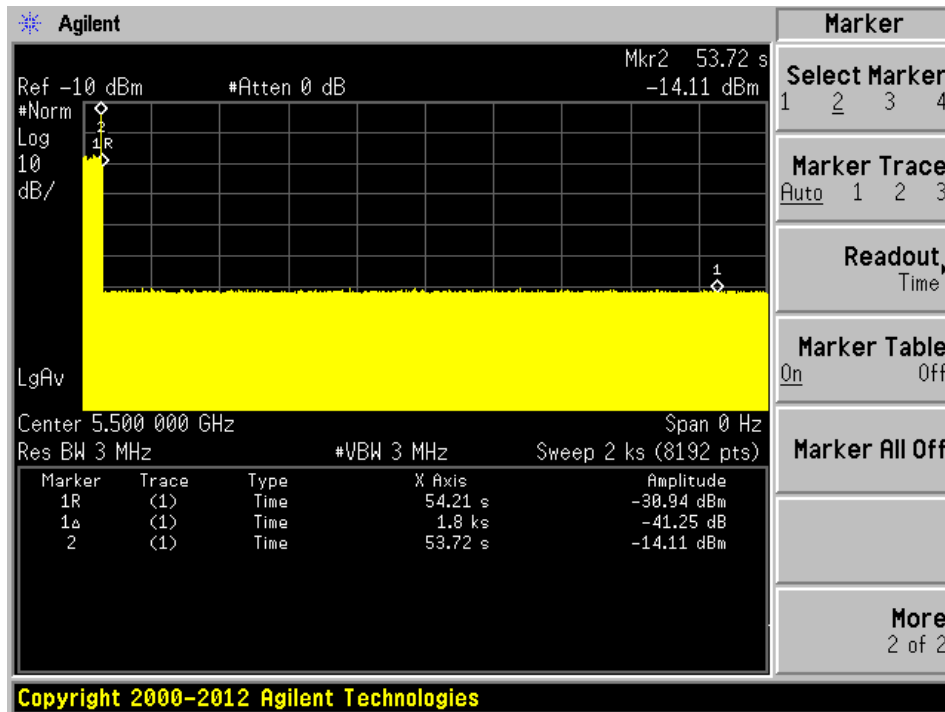
Please refer to the following plots.

**AP Mode
Iron Radio
5530 MHz, Bandwidth 80 MHz**



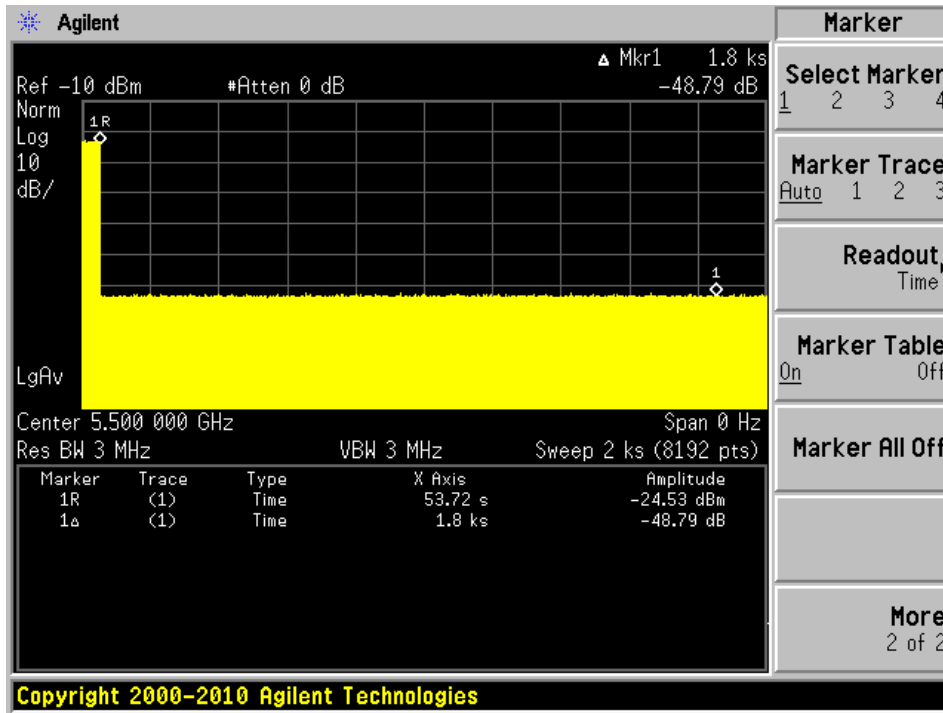
Note: 5500 MHz was monitored as it is the primary channel that contains the control signal.

**Pine Radio
5570 MHz, Bandwidth 160 MHz**



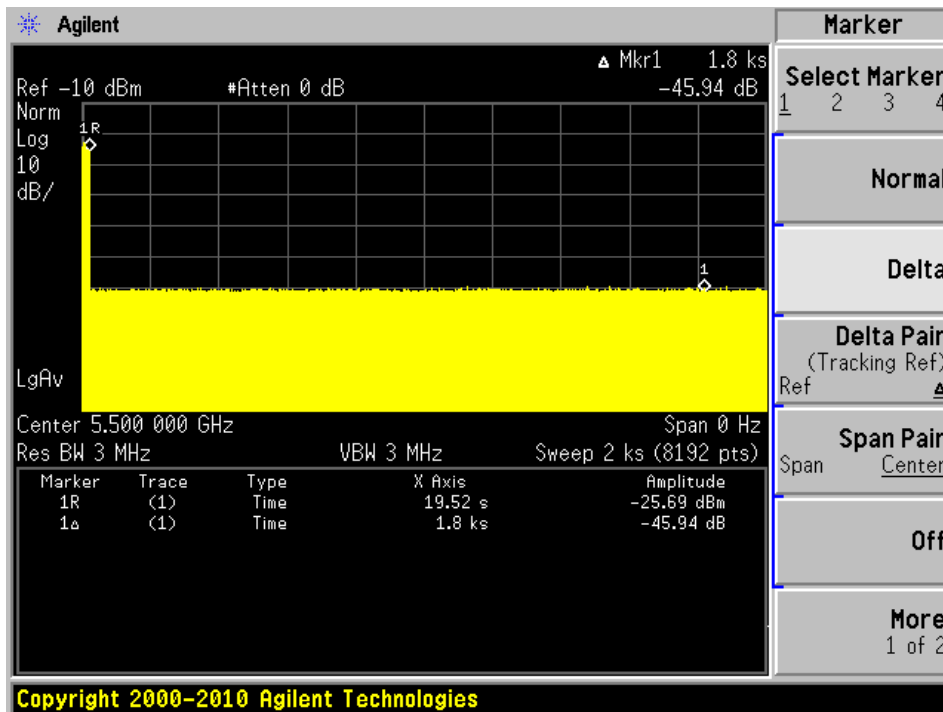
Note: 5500 MHz was monitored as it is the primary channel that contains the control signal.

**P2P Mode
Iron Radio
5530 MHz, Bandwidth 80 MHz**



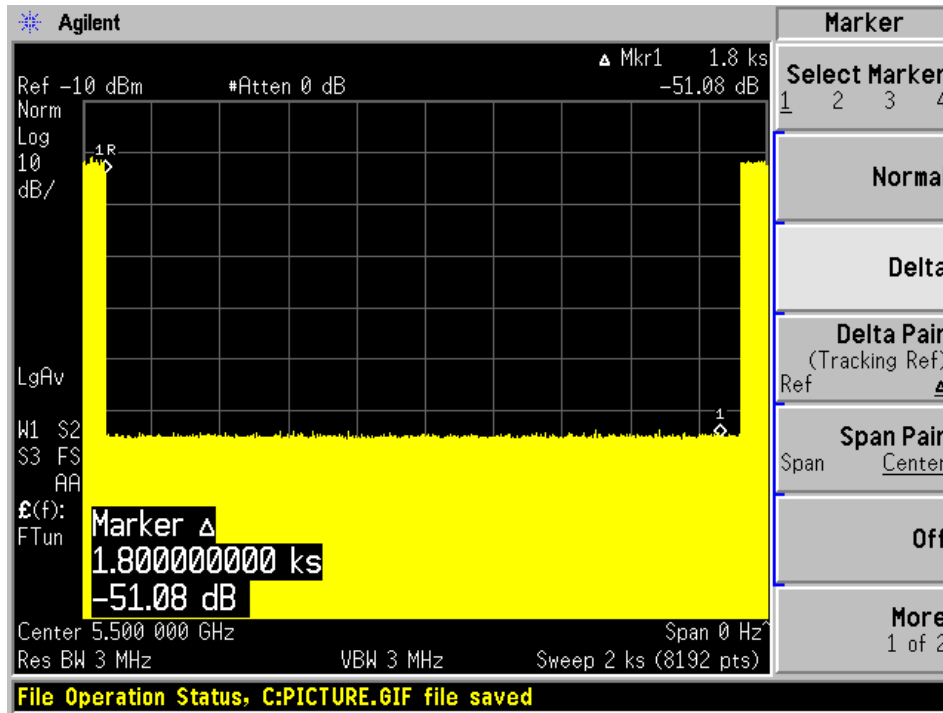
Note: 5500 MHz was monitored as it is the primary channel that contains the control signal.

**Pine Radio
5570 MHz, Bandwidth 160 MHz**



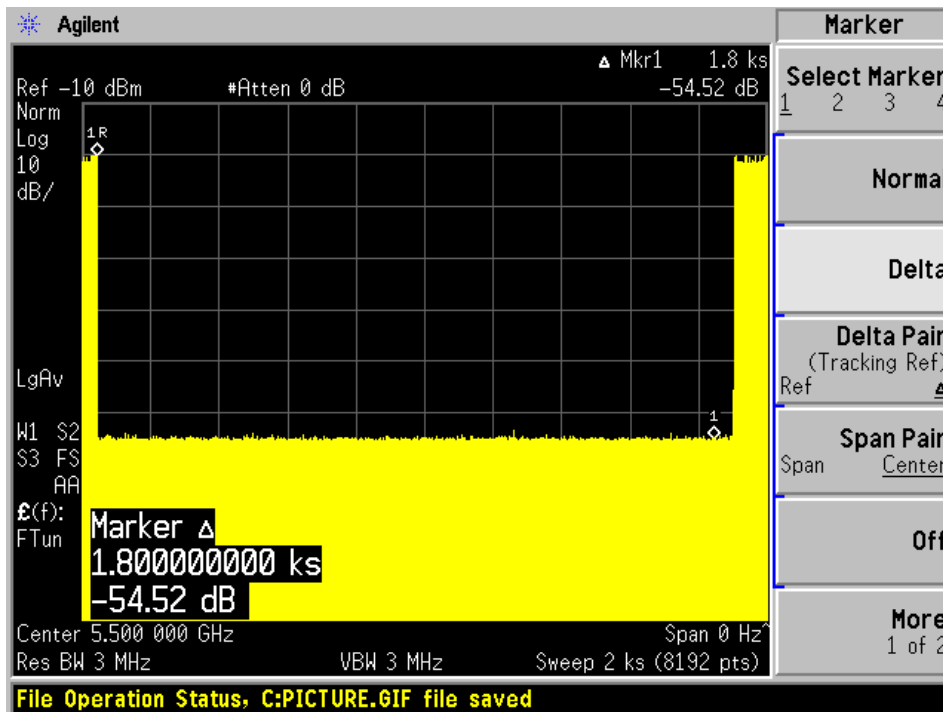
Note: 5500 MHz was monitored as it is the primary channel that contains the control signal.

**P2MP Master Mode
Iron Radio
5530 MHz, Bandwidth 80 MHz**



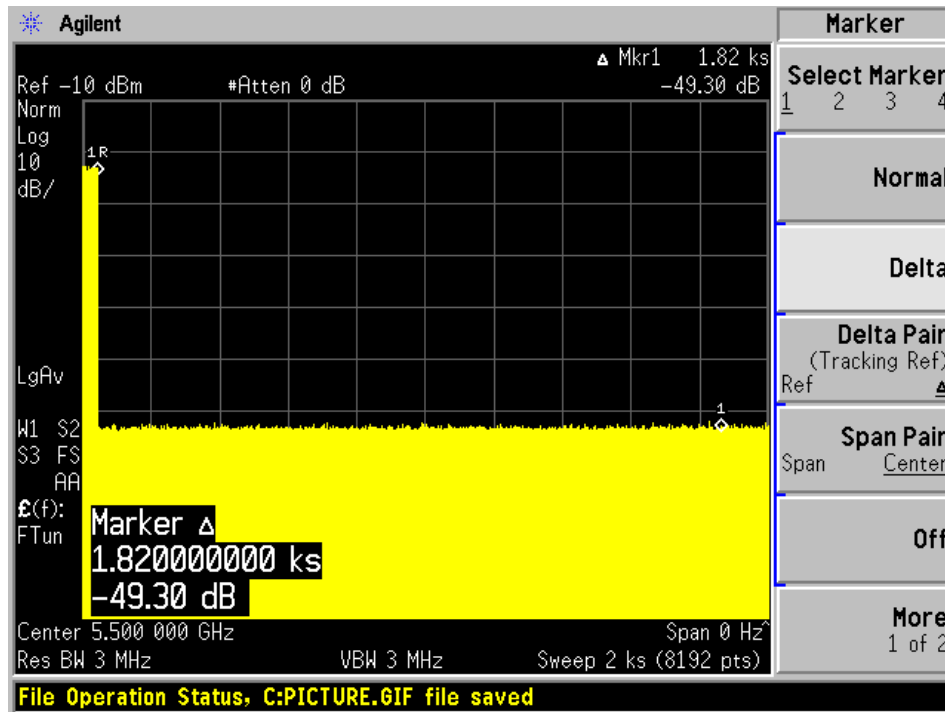
Note: 5500 MHz was monitored as it is the primary channel that contains the control signal.

**Pine Radio
5570 MHz, Bandwidth 160 MHz**



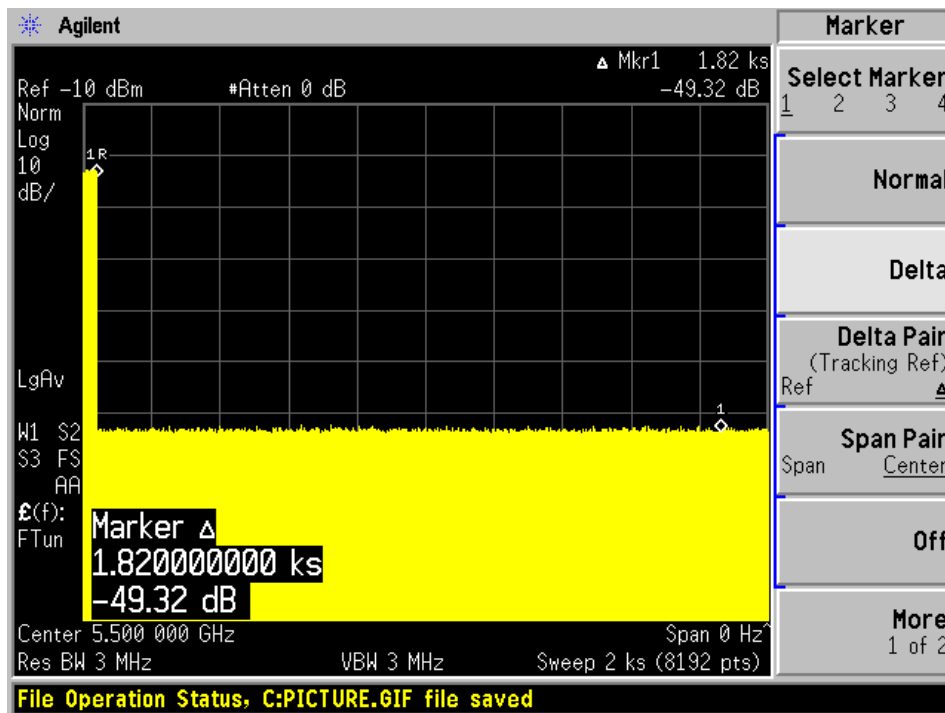
Note: 5500 MHz was monitored as it is the primary channel that contains the control signal.

P2MP Client Mode with Master Detecting Iron Radio 5530 MHz, Bandwidth 80 MHz



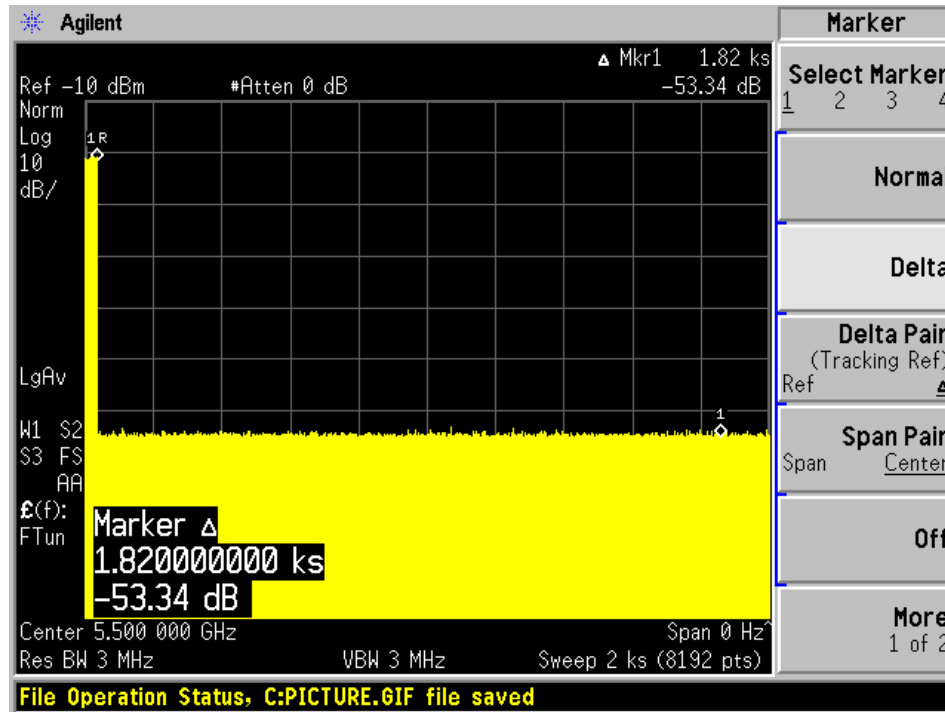
Note: 5500 MHz was tested as it is the primary channel that contains the control signal.

Pine Radio 5570 MHz, Bandwidth 160 MHz



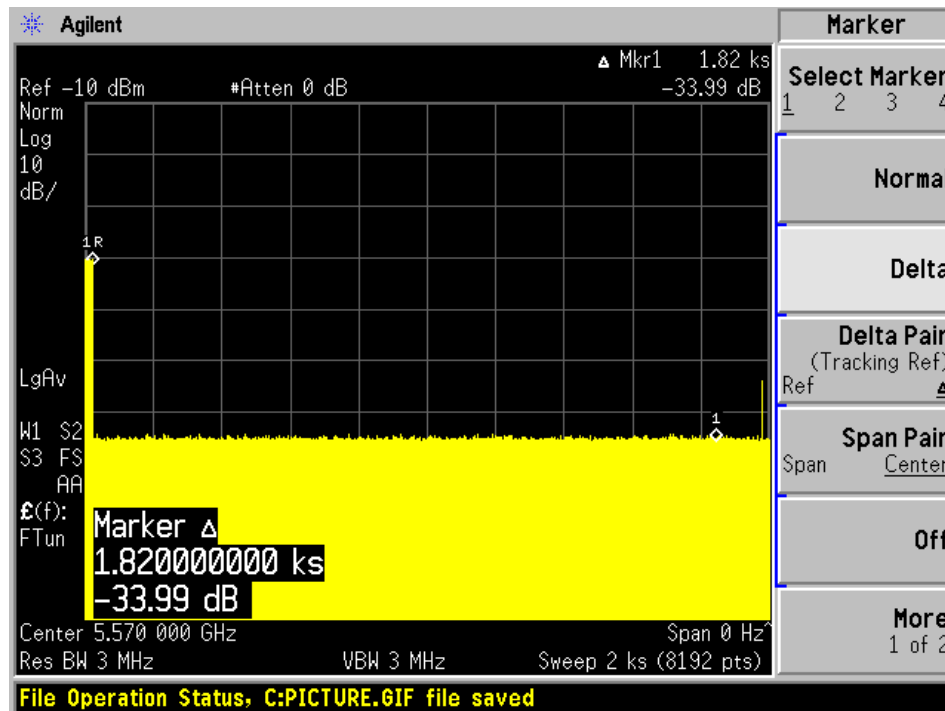
Note: 5500 MHz was tested as it is the primary channel that contains the control signal.

P2MP Client Mode with Client Detecting Iron Radio 5530 MHz, Bandwidth 80 MHz



Note: 5500 MHz was tested as it is the primary channel that contains the control signal.

Pine Radio 5570 MHz, Bandwidth 160 MHz



Note: 5500 MHz was tested as it is the primary channel that contains the control signal.

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

AP Mode Iron Radio

Frequency (MHz)	F _L (MHz)	F _H (MHz)	Detection Bandwidth (MHz)	Minimum Limit	Result
5500	5490	5510	20	100%	Compliance
5510	5490	5530	40	100%	Compliance
5530	5490	5570	80	100%	Compliance

Pine Radio

Frequency (MHz)	F _L (MHz)	F _H (MHz)	Detection Bandwidth (MHz)	Minimum Limit	Result
5500	5490	5510	20	100%	Compliance
5510	5490	5530	40	100%	Compliance
5530	5490	5570	80	100%	Compliance
5570	5490	5650	160	100%	Compliance

**P2P Mode
Iron Radio**

Frequency (MHz)	F _L (MHz)	F _H (MHz)	Detection Bandwidth (MHz)	Minimum Limit	Result
5500	5490	5510	20	100%	Compliance
5510	5490	5530	40	100%	Compliance
5530	5490	5570	80	100%	Compliance

Pine Radio

Frequency (MHz)	F _L (MHz)	F _H (MHz)	Detection Bandwidth (MHz)	Minimum Limit	Result
5500	5490	5510	20	100%	Compliance
5510	5490	5530	40	100%	Compliance
5530	5490	5570	80	100%	Compliance
5570	5490	5650	160	100%	Compliance

**P2MP Master Mode
Iron Radio**

Frequency (MHz)	F _L (MHz)	F _H (MHz)	Detection Bandwidth (MHz)	Minimum Limit	Result
5500	5490	5510	20	100%	Compliance
5510	5490	5530	40	100%	Compliance
5530	5490	5570	80	100%	Compliance

Pine Radio

Frequency (MHz)	F _L (MHz)	F _H (MHz)	Detection Bandwidth (MHz)	Minimum Limit	Result
5500	5490	5510	20	100%	Compliance
5510	5490	5530	40	100%	Compliance
5530	5490	5570	79	100%	Compliance
5570	5490	5650	160	100%	Compliance

**P2MP Client Mode
Iron Radio**

Frequency (MHz)	F_L (MHz)	F_H (MHz)	Detection Bandwidth (MHz)	Minimum Limit	Result
5500	5490	5510	20	100%	Compliance
5510	5490	5530	40	100%	Compliance
5530	5490	5570	80	100%	Compliance

Pine Radio

Frequency (MHz)	F_L (MHz)	F_H (MHz)	Detection Bandwidth (MHz)	Minimum Limit	Result
5500	5490	5510	20	100%	Compliance
5510	5490	5530	40	100%	Compliance
5530	5490	5570	80	100%	Compliance
5570	5490	5650	158	100%	Compliance

Results of Detection Bandwidth:**AP Mode
Iron Radio**

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 (%)
5490(F_L)	1	1	1	1	1	1	1	1	0	1	100 %
5495	1	1	1	1	1	1	1	1	1	1	100 %
5500(F _c)	1	1	1	1	1	1	1	1	1	1	100 %
5505	1	1	1	1	1	1	1	1	1	1	100 %
5510(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
Detection Bandwidth = F_H - F_L = 5510 - 5490 = 20 MHz											
EUT 99% OBW = 17.68 MHz; 17.68 x 100% = 17.68 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 (%)
5490(F_L)	1	1	1	1	1	1	1	1	0	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(F _c)	1	1	1	1	1	1	1	1	1	1	100 %
5515	1	1	1	1	1	1	1	1	1	1	100 %
5520	1	1	1	1	1	1	1	1	1	1	100 %
5525	1	1	1	1	1	1	1	1	1	1	100 %
5530(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
Detection Bandwidth = F_H - F_L = 5530 - 5490 = 40 MHz											
EUT 99% OBW = 36.12 MHz; 36.12 x 100% = 36.12 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 (%)
5490(F _L)	1	1	1	1	1	1	1	1	0	1	100 %
5495	1	1	1	1	1	1	1	1	1	1	100 %
5500	1	1	1	1	1	1	1	1	1	1	100 %
5505	1	1	1	1	1	1	1	1	1	1	100 %
5510	1	1	1	1	1	1	1	1	1	1	100 %
5515	1	1	1	1	1	1	1	1	1	1	100 %
5520	1	1	1	1	1	1	1	1	1	1	100 %
5525	1	1	1	1	1	1	1	1	1	1	100 %
5530(F _C)	1	1	1	1	1	1	1	1	1	1	100 %
5535	1	1	1	1	1	1	1	1	1	1	100 %
5540	1	1	1	1	1	1	1	1	1	1	100 %
5545	1	1	1	1	1	1	1	1	1	1	100 %
5550	1	1	1	1	1	1	1	1	1	1	100 %
5555	1	1	1	1	1	1	1	1	1	1	100 %
5560	1	1	1	1	1	1	1	1	1	1	100 %
5565	1	1	1	1	1	1	1	1	1	1	100 %
5570(F _H)	1	1	1	1	1	1	1	1	1	1	100 %
Detection Bandwidth = F _H – F _L =5570-5490=80 MHz											
EUT 99% OBW = 75.35 MHz; 75.35 x 100% = 75.35 MHz						Result:		Pass			

Pine Radio

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 (%)
5490(F _L)	1	1	1	1	1	1	1	1	0	1	100 %
5495	1	1	1	1	1	1	1	1	1	1	100 %
5500(F _C)	1	1	1	1	1	1	1	1	1	1	100 %
5505	1	1	1	1	1	1	1	1	1	1	100 %
5510(F _H)	1	1	1	1	1	1	1	1	1	1	100 %
Detection Bandwidth = F _H – F _L =5510-5490=20 MHz											
EUT 99% OBW = 17.70 MHz; 17.70 x 100% = 17.70 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 (%)
5490(F _L)	1	1	1	1	1	1	1	1	0	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(F _C)	1	1	1	1	1	1	1	1	1	1	100 %
5515	1	1	1	1	1	1	1	1	1	1	100 %
5520	1	1	1	1	1	1	1	1	1	1	100 %
5525	1	1	1	1	1	1	1	1	1	1	100 %
5530(F _H)	1	1	1	1	1	1	1	1	1	1	100 %
Detection Bandwidth = F _H - F _L =5530-5490=40 MHz											
EUT 99% OBW = 36.34 MHz; 36.34 x 100% = 36.34 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 (%)
5490(F _L)	1	1	1	1	1	1	1	1	0	1	100 %
5495	1	1	1	1	1	1	1	1	1	1	100 %
5500	1	1	1	1	1	1	1	1	1	1	100 %
5505	1	1	1	1	1	1	1	1	1	1	100 %
5510	1	1	1	1	1	1	1	1	1	1	100 %
5515	1	1	1	1	1	1	1	1	1	1	100 %
5520	1	1	1	1	1	1	1	1	1	1	100 %
5525	1	1	1	1	1	1	1	1	1	1	100 %
5530(F _C)	1	1	1	1	1	1	1	1	1	1	100 %
5535	1	1	1	1	1	1	1	1	1	1	100 %
5540	1	1	1	1	1	1	1	1	1	1	100 %
5545	1	1	1	1	1	1	1	1	1	1	100 %
5550	1	1	1	1	1	1	1	1	1	1	100 %
5555	1	1	1	1	1	1	1	1	1	1	100 %
5560	1	1	1	1	1	1	1	1	1	1	100 %
5565	1	1	1	1	1	1	1	1	1	1	100 %
5570(F _H)	1	1	1	1	1	1	1	1	1	1	100 %
Detection Bandwidth = F _H - F _L =5570-5490=80 MHz											
EUT 99% OBW = 76.38 MHz; 76.38 x 100% = 76.38 MHz Result: Pass											

EUT Frequency = 5570 MHz											
DFS Detection Trials (1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
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	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 _C)	1	1	1	1	1	1	1	1	1	1	100 %
5575	1	1	1	1	1	1	1	1	1	1	100 %
5580	1	1	1	1	1	1	1	1	1	1	100 %
5585	1	1	1	1	1	1	1	1	1	1	100 %
5590	1	1	1	1	1	1	1	1	1	1	100 %
5595	1	1	1	1	1	1	1	1	1	1	100 %
5600	1	1	1	1	1	1	1	1	1	1	100 %
5605	1	1	1	1	1	1	1	1	1	1	100 %
5610	1	1	1	1	1	1	1	1	1	1	100 %
5615	1	1	1	1	1	1	1	1	1	1	100 %
5620	1	1	1	1	1	1	1	1	1	1	100 %
5625	1	1	1	1	1	1	1	1	1	1	100 %
5630	1	1	1	1	1	1	1	1	1	1	100 %
5635	1	1	1	1	1	1	1	1	1	1	100 %
5640	1	1	1	1	1	1	1	1	1	1	100 %
5645	1	1	1	1	1	1	1	1	1	1	100 %
5650(F _H)	1	1	1	1	1	1	1	1	1	1	100 %
Detection Bandwidth = F_H - F_L = 5650 - 5490 = 160 MHz											
EUT 99% OBW = 154.99 MHz; 154.99 x 100% = 154.99 MHz										Result: Pass	

**P2P Mode
Iron Radio**

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 (%)
5490(F _L)	1	1	1	1	1	1	1	1	0	1	100 %
5495	1	1	1	1	1	1	1	1	1	1	100 %
5500(F _c)	1	1	1	1	1	1	1	1	1	1	100 %
5505	1	1	1	1	1	1	1	1	1	1	100 %
5510(F _H)	1	1	1	1	1	1	1	1	1	1	100 %
Detection Bandwidth = F _H – F _L =5510-5490=20 MHz											
EUT 99% OBW = 15.92 MHz; 15.92 x 100% = 15.92 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 (%)
5490(F _L)	1	1	1	1	1	1	1	1	0	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(F _c)	1	1	1	1	1	1	1	1	1	1	100 %
5515	1	1	1	1	1	1	1	1	1	1	100 %
5520	1	1	1	1	1	1	1	1	1	1	100 %
5525	1	1	1	1	1	1	1	1	1	1	100 %
5530(F _H)	1	1	1	1	1	1	1	1	1	1	100 %
Detection Bandwidth = F _H – F _L =5530-5490=40 MHz											
EUT 99% OBW = 36.29 MHz; 36.29 x 100% = 36.29 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 (%)
5490(F _L)	1	1	1	1	1	1	1	1	0	1	100 %
5495	1	1	1	1	1	1	1	1	1	1	100 %
5500	1	1	1	1	1	1	1	1	1	1	100 %
5505	1	1	1	1	1	1	1	1	1	1	100 %
5510	1	1	1	1	1	1	1	1	1	1	100 %
5515	1	1	1	1	1	1	1	1	1	1	100 %
5520	1	1	1	1	1	1	1	1	1	1	100 %
5525	1	1	1	1	1	1	1	1	1	1	100 %
5530(F _C)	1	1	1	1	1	1	1	1	1	1	100 %
5535	1	1	1	1	1	1	1	1	1	1	100 %
5540	1	1	1	1	1	1	1	1	1	1	100 %
5545	1	1	1	1	1	1	1	1	1	1	100 %
5550	1	1	1	1	1	1	1	1	1	1	100 %
5555	1	1	1	1	1	1	1	1	1	1	100 %
5560	1	1	1	1	1	1	1	1	1	1	100 %
5565	1	1	1	1	1	1	1	1	1	1	100 %
5570(F _H)	0	1	1	1	1	1	1	1	1	1	90 %
Detection Bandwidth = F _H - F _L =5570-5490=80 MHz											
EUT 99% OBW = 74.63 MHz; 74.63 x 100% = 74.63 MHz Result: Pass											

Pine Radio

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 (%)
5490(F _L)	1	1	1	1	1	1	1	1	0	1	100 %
5495	1	1	1	1	1	1	1	1	1	1	100 %
5500(F _C)	1	1	1	1	1	1	1	1	1	1	100 %
5505	1	1	1	1	1	1	1	1	1	1	100 %
5510(F _H)	1	1	1	1	1	1	1	1	1	1	100 %
Detection Bandwidth = F _H - F _L =5510-5490=20 MHz											
EUT 99% OBW = 15.71 MHz; 15.71 x 100% = 15.71 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 (%)
5490(F _L)	1	1	1	1	1	1	1	1	0	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(F _C)	1	1	1	1	1	1	1	1	1	1	100 %
5515	1	1	1	1	1	1	1	1	1	1	100 %
5520	1	1	1	1	1	1	1	1	1	1	100 %
5525	1	1	1	1	1	1	1	1	1	1	100 %
5530(F _H)	1	1	1	1	1	1	1	1	1	1	100 %
Detection Bandwidth = F _H - F _L =5530-5490=40 MHz											
EUT 99% OBW = 36.29 MHz; 36.29 x 100% = 36.29 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 (%)
5490(F _L)	1	1	1	1	1	1	1	1	0	1	100 %
5495	1	1	1	1	1	1	1	1	1	1	100 %
5500	1	1	1	1	1	1	1	1	1	1	100 %
5505	1	1	1	1	1	1	1	1	1	1	100 %
5510	1	1	1	1	1	1	1	1	1	1	100 %
5515	1	1	1	1	1	1	1	1	1	1	100 %
5520	1	1	1	1	1	1	1	1	1	1	100 %
5525	1	1	1	1	1	1	1	1	1	1	100 %
5530(F _C)	1	1	1	1	1	1	1	1	1	1	100 %
5535	1	1	1	1	1	1	1	1	1	1	100 %
5540	1	1	1	1	1	1	1	1	1	1	100 %
5545	1	1	1	1	1	1	1	1	1	1	100 %
5550	1	1	1	1	1	1	1	1	1	1	100 %
5555	1	1	1	1	1	1	1	1	1	1	100 %
5560	1	1	1	1	1	1	1	1	1	1	100 %
5565	1	1	1	1	1	1	1	1	1	1	100 %
5570(F _H)	1	1	1	1	1	1	1	1	1	1	100 %
Detection Bandwidth = F _H - F _L =5570-5490=80 MHz											
EUT 99% OBW = 74.89 MHz; 74.89 x 100% = 74.89 MHz Result: Pass											

EUT Frequency = 5570 MHz											
DFS Detection Trials (1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
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	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 _C)	1	1	1	1	1	1	1	1	1	1	100 %
5575	1	1	1	1	1	1	1	1	1	1	100 %
5580	1	1	1	1	1	1	1	1	1	1	100 %
5585	1	1	1	1	1	1	1	1	1	1	100 %
5590	1	1	1	1	1	1	1	1	1	1	100 %
5595	1	1	1	1	1	1	1	1	1	1	100 %
5600	1	1	1	1	1	1	1	1	1	1	100 %
5605	1	1	1	1	1	1	1	1	1	1	100 %
5610	1	1	1	1	1	1	1	1	1	1	100 %
5615	1	1	1	1	1	1	1	1	1	1	100 %
5620	1	1	1	1	1	1	1	1	1	1	100 %
5625	1	1	1	1	1	1	1	1	1	1	100 %
5630	1	1	1	1	1	1	1	1	1	1	100 %
5635	1	1	1	1	1	1	1	1	1	1	100 %
5640	1	1	1	1	1	1	1	1	1	1	100 %
5645	1	1	1	1	1	1	1	1	1	1	100 %
5650(F _H)	1	1	1	1	1	1	1	1	1	1	100 %
Detection Bandwidth = F_H - F_L = 5650 - 5490 = 160 MHz											
EUT 99% OBW = 148.96 MHz; 148.96 x 100% = 148.96 MHz										Result: Pass	

**P2MP Master Mode
Iron Radio**

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 (%)
5490(F _L)	1	1	1	1	1	1	1	1	0	1	100 %
5495	1	1	1	1	1	1	1	1	1	1	100 %
5500(F _c)	1	1	1	1	1	1	1	1	1	1	100 %
5505	1	1	1	1	1	1	1	1	1	1	100 %
5510(F _H)	1	1	1	1	1	1	1	1	1	1	100 %
Detection Bandwidth = F _H – F _L =5510-5490=20 MHz											
EUT 99% OBW = 18.84 MHz; 18.84 x 100% = 18.84 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 (%)
5490(F _L)	1	1	1	1	1	1	1	1	0	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(F _c)	1	1	1	1	1	1	1	1	1	1	100 %
5515	1	1	1	1	1	1	1	1	1	1	100 %
5520	1	1	1	1	1	1	1	1	1	1	100 %
5525	1	1	1	1	1	1	1	1	1	1	100 %
5530(F _H)	1	1	1	1	1	1	1	1	1	1	100 %
Detection Bandwidth = F _H – F _L =5530-5490=40 MHz											
EUT 99% OBW = 37.68 MHz; 37.68 x 100% = 37.68 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 (%)
5490(F _L)	1	1	1	1	1	1	1	1	0	1	100 %
5495	1	1	1	1	1	1	1	1	1	1	100 %
5500	1	1	1	1	1	1	1	1	1	1	100 %
5505	1	1	1	1	1	1	1	1	1	1	100 %
5510	1	1	1	1	1	1	1	1	1	1	100 %
5515	1	1	1	1	1	1	1	1	1	1	100 %
5520	1	1	1	1	1	1	1	1	1	1	100 %
5525	1	1	1	1	1	1	1	1	1	1	100 %
5530(F _C)	1	1	1	1	1	1	1	1	1	1	100 %
5535	1	1	1	1	1	1	1	1	1	1	100 %
5540	1	1	1	1	1	1	1	1	1	1	100 %
5545	1	1	1	1	1	1	1	1	1	1	100 %
5550	1	1	1	1	1	1	1	1	1	1	100 %
5555	1	1	1	1	1	1	1	1	1	1	100 %
5560	1	1	1	1	1	1	1	1	1	1	100 %
5565	1	1	1	1	1	1	1	1	1	1	100 %
5570(F _H)	1	1	1	1	1	1	1	1	1	1	100 %
Detection Bandwidth = F _H - F _L =5570-5490=80 MHz											
EUT 99% OBW = 75.84 MHz; 75.84 x 100% = 75.84 MHz						Result:		Pass			

Pine Radio

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 (%)
5490(F _L)	1	1	1	1	1	1	1	1	0	1	100 %
5495	1	1	1	1	1	1	1	1	1	1	100 %
5500(F _C)	1	1	1	1	1	1	1	1	1	1	100 %
5505	1	1	1	1	1	1	1	1	1	1	100 %
5510(F _H)	1	1	1	1	1	1	1	1	1	1	100 %
Detection Bandwidth = F _H - F _L =5510-5490=20 MHz											
EUT 99% OBW = 15.57 MHz; 15.57 x 100% = 15.57 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 (%)
5490(F _L)	1	1	1	1	1	1	1	1	0	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(F _C)	1	1	1	1	1	1	1	1	1	1	100 %
5515	1	1	1	1	1	1	1	1	1	1	100 %
5520	1	1	1	1	1	1	1	1	1	1	100 %
5525	1	1	1	1	1	1	1	1	1	1	100 %
5530(F _H)	1	1	1	1	1	1	1	1	1	1	100 %
Detection Bandwidth = F _H - F _L =5530-5490=40 MHz											
EUT 99% OBW = 36.34 MHz; 36.34 x 100% = 36.34 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 (%)
5490(F _L)	1	1	1	1	1	1	1	1	0	1	100 %
5495	1	1	1	1	1	1	1	1	1	1	100 %
5500	1	1	1	1	1	1	1	1	1	1	100 %
5505	1	1	1	1	1	1	1	1	1	1	100 %
5510	1	1	1	1	1	1	1	1	1	1	100 %
5515	1	1	1	1	1	1	1	1	1	1	100 %
5520	1	1	1	1	1	1	1	1	1	1	100 %
5525	1	1	1	1	1	1	1	1	1	1	100 %
5530(F _C)	1	1	1	1	1	1	1	1	1	1	100 %
5535	1	1	1	1	1	1	1	1	1	1	100 %
5540	1	1	1	1	1	1	1	1	1	1	100 %
5545	1	1	1	1	1	1	1	1	1	1	100 %
5550	1	1	1	1	1	1	1	1	1	1	100 %
5555	1	1	1	1	1	1	1	1	1	1	100 %
5560	1	1	1	1	1	1	1	1	1	1	100 %
5565	1	1	1	1	1	1	1	1	1	1	100 %
5569(F _H)	1	1	1	1	1	1	1	1	1	0	90 %
5570	1	1	1	1	1	1	1	1	0	0	80 %
Detection Bandwidth = F _H - F _L =5569-5490=79 MHz											
EUT 99% OBW = 76.84 MHz; 76.84 x 100% = 76.84 MHz Result: Pass											

EUT Frequency = 5570 MHz											
DFS Detection Trials (1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
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	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 _C)	1	1	1	1	1	1	1	1	1	1	100 %
5575	1	1	1	1	1	1	1	1	1	1	100 %
5580	1	1	1	1	1	1	1	1	1	1	100 %
5585	1	1	1	1	1	1	1	1	1	1	100 %
5590	1	1	1	1	1	1	1	1	1	1	100 %
5595	1	1	1	1	1	1	1	1	1	1	100 %
5600	1	1	1	1	1	1	1	1	1	1	100 %
5605	1	1	1	1	1	1	1	1	1	1	100 %
5610	1	1	1	1	1	1	1	1	1	1	100 %
5615	1	1	1	1	1	1	1	1	1	1	100 %
5620	1	1	1	1	1	1	1	1	1	1	100 %
5625	1	1	1	1	1	1	1	1	1	1	100 %
5630	1	1	1	1	1	1	1	1	1	1	100 %
5635	1	1	1	1	1	1	1	1	1	1	100 %
5640	1	1	1	1	1	1	1	1	1	1	100 %
5645	1	1	1	1	1	1	1	1	1	1	100 %
5650(F _H)	1	1	1	1	1	1	1	1	1	1	100 %
Detection Bandwidth = F_H - F_L = 5650 - 5490 = 160 MHz											
EUT 99% OBW = 141.35 MHz; 141.35 x 100% = 141.35 MHz										Result: Pass	

**P2MP Client Mode
Iron Radio**

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 (%)
5490(F _L)	1	1	1	1	1	1	1	1	1	1	100 %
5495	1	1	1	1	1	1	1	1	1	1	100 %
5500(F _c)	1	1	1	1	1	1	1	1	1	1	100 %
5505	1	1	1	1	1	1	1	1	1	1	100 %
5510(F _H)	1	1	1	1	1	1	1	1	1	1	100 %
Detection Bandwidth = F _H – F _L =5510-5490=20 MHz											
EUT 99% OBW = 16.49 MHz; 16.49 x 100% = 16.49 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 (%)
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(F _c)	1	1	1	1	1	1	1	1	1	1	100 %
5515	1	1	1	1	1	1	1	1	1	1	100 %
5520	1	1	1	1	1	1	1	1	1	1	100 %
5525	1	1	1	1	1	1	1	1	1	1	100 %
5530(F _H)	1	1	1	1	1	1	1	1	1	1	100 %
Detection Bandwidth = F _H – F _L =5530-5490=40 MHz											
EUT 99% OBW = 36.83 MHz; 36.83 x 100% = 36.83 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 (%)
5490(F _L)	1	1	1	1	1	1	1	1	1	1	100 %
5495	1	1	1	1	1	1	1	1	1	1	100 %
5500	1	1	1	1	1	1	1	1	1	1	100 %
5505	1	1	1	1	1	1	1	1	1	1	100 %
5510	1	1	1	1	1	1	1	1	1	1	100 %
5515	1	1	1	1	1	1	1	1	1	1	100 %
5520	1	1	1	1	1	1	1	1	1	1	100 %
5525	1	1	1	1	1	1	1	1	1	1	100 %
5530(F _C)	1	1	1	1	1	1	1	1	1	1	100 %
5535	1	1	1	1	1	1	1	1	1	1	100 %
5540	1	1	1	1	1	1	1	1	1	1	100 %
5545	1	1	1	1	1	1	1	1	1	1	100 %
5550	1	1	1	1	1	1	1	1	1	1	100 %
5555	1	1	1	1	1	1	1	1	1	1	100 %
5560	1	1	1	1	1	1	1	1	1	1	100 %
5565	1	1	1	1	1	1	1	1	1	1	100 %
5570(F _H)	1	1	1	1	1	1	1	1	1	1	100 %
Detection Bandwidth = F _H – F _L =5570-5490=80 MHz											
EUT 99% OBW = 76.32 MHz; 76.32 x 100% = 76.32 MHz						Result:		Pass			

Pine Radio

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 (%)
5490(F _L)	1	1	1	1	1	1	1	1	1	1	100 %
5495	1	1	1	1	1	1	1	1	1	1	100 %
5500(F _C)	1	1	1	1	1	1	1	1	1	1	100 %
5505	1	1	1	1	1	1	1	1	1	1	100 %
5510(F _H)	1	1	1	1	1	1	1	1	1	1	100 %
Detection Bandwidth = F _H – F _L =5510-5490=20 MHz											
EUT 99% OBW = 17.08 MHz; 17.08 x 100% = 17.08 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 (%)
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(F _C)	1	1	1	1	1	1	1	1	1	1	100 %
5515	1	1	1	1	1	1	1	1	1	1	100 %
5520	1	1	1	1	1	1	1	1	1	1	100 %
5525	1	1	1	1	1	1	1	1	1	1	100 %
5530(F _H)	1	1	1	1	1	1	1	1	1	1	100 %
Detection Bandwidth = F _H - F _L =5530-5490=40 MHz											
EUT 99% OBW = 36.12 MHz; 36.12 x 100% = 36.12 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 (%)
5490(F _L)	1	1	1	1	1	1	1	1	0	1	100 %
5495	1	1	1	1	1	1	1	1	1	1	100 %
5500	1	1	1	1	1	1	1	1	1	1	100 %
5505	1	1	1	1	1	1	1	1	1	1	100 %
5510	1	1	1	1	1	1	1	1	1	1	100 %
5515	1	1	1	1	1	1	1	1	1	1	100 %
5520	1	1	1	1	1	1	1	1	1	1	100 %
5525	1	1	1	1	1	1	1	1	1	1	100 %
5530(F _C)	1	1	1	1	1	1	1	1	1	1	100 %
5535	1	1	1	1	1	1	1	1	1	1	100 %
5540	1	1	1	1	1	1	1	1	1	1	100 %
5545	1	1	1	1	1	1	1	1	1	1	100 %
5550	1	1	1	1	1	1	1	1	1	1	100 %
5555	1	1	1	1	1	1	1	1	1	1	100 %
5560	1	1	1	1	1	1	1	1	1	1	100 %
5565	1	1	1	1	1	1	1	1	1	1	100 %
5570(F _C)	1	1	1	1	1	1	1	1	1	1	100 %
Detection Bandwidth = F _H - F _L =5570-5490=80 MHz											
EUT 99% OBW = 74.30 MHz; 74.30 x 100% = 74.30 MHz Result: Pass											

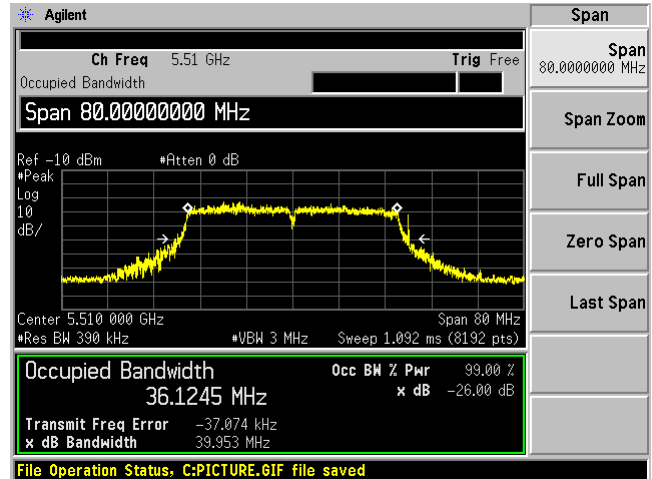
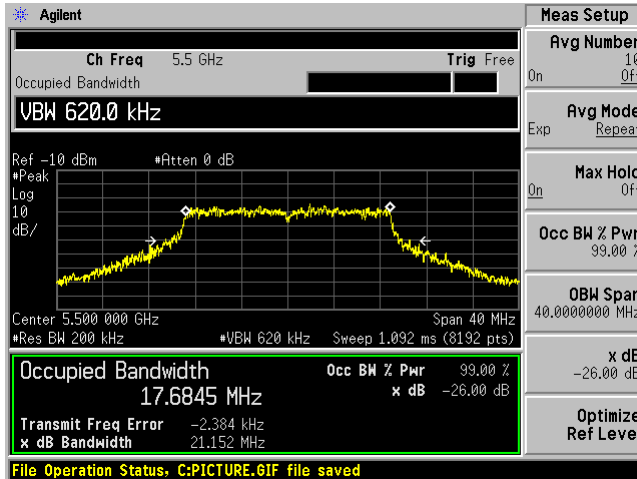
EUT Frequency = 5570 MHz											
DFS Detection Trials (1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5490(F _L)	1	1	1	1	1	1	1	1	1	1	100 %
5495	1	1	1	1	1	1	1	1	1	1	100 %
5500	1	1	1	1	1	1	1	1	1	1	100 %
5505	1	1	1	1	1	1	1	1	1	1	100 %
5510	1	1	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	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 _C)	1	1	1	1	1	1	1	1	1	1	100 %
5575	1	1	1	1	1	1	1	1	1	1	100 %
5580	1	1	1	1	1	1	1	1	1	1	100 %
5585	1	1	1	1	1	1	1	1	1	1	100 %
5590	1	1	1	1	1	1	1	1	1	1	100 %
5595	1	1	1	1	1	1	1	1	1	1	100 %
5600	1	1	1	1	1	1	1	1	1	1	100 %
5605	1	1	1	1	1	1	1	1	1	1	100 %
5610	1	1	1	1	1	1	1	1	1	1	100 %
5615	1	1	1	1	1	1	1	1	1	1	100 %
5620	1	1	1	1	1	1	1	1	1	1	100 %
5625	1	1	1	1	1	1	1	1	1	1	100 %
5630	1	1	1	1	1	1	1	1	1	1	100 %
5635	1	1	1	1	1	1	1	1	1	1	100 %
5640	1	1	1	1	1	1	1	1	1	1	100 %
5645	1	1	1	1	1	1	1	1	1	1	100 %
5648(F _H)	1	1	1	1	1	1	1	1	1	1	100 %
5649	0	1	1	1	0	1	0	1	1	1	70%
5650	0	0	0	0	0	0	0	0	0	0	0%
Detection Bandwidth = F_H – F_L=5648-5490=158 MHz											
EUT 99% OBW =142,68 MHz; 142,68 x 100% = 142,68 MHz Result: Pass											

OBW Measurement

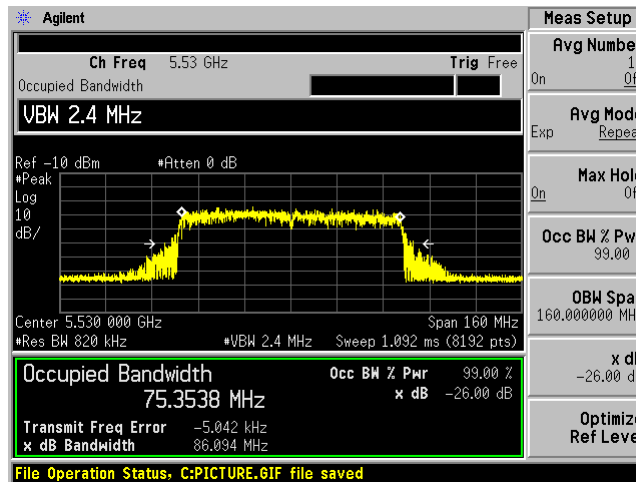
AP Mode Iron Radio

20 MHz

40 MHz

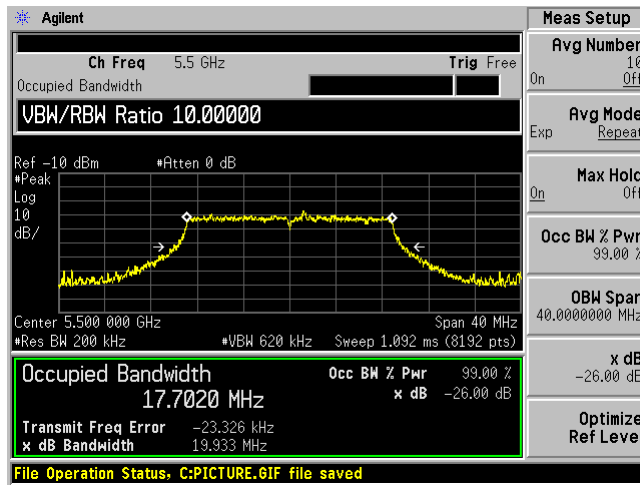


80 MHz

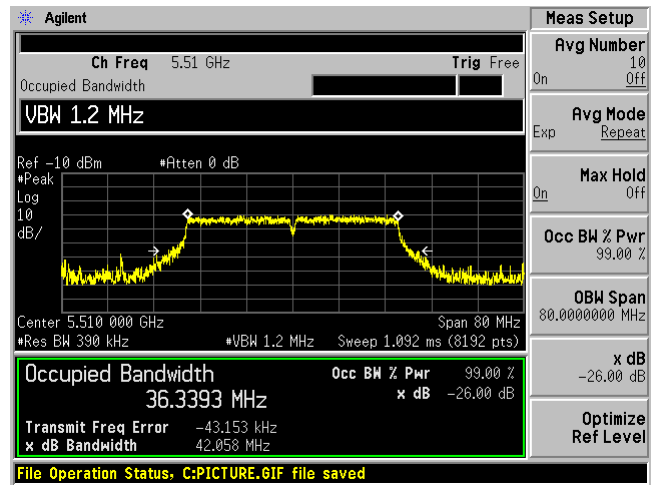


Pine Radio

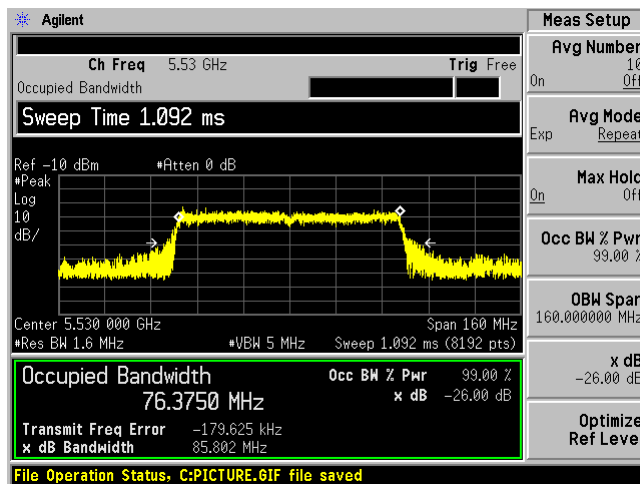
20 MHz



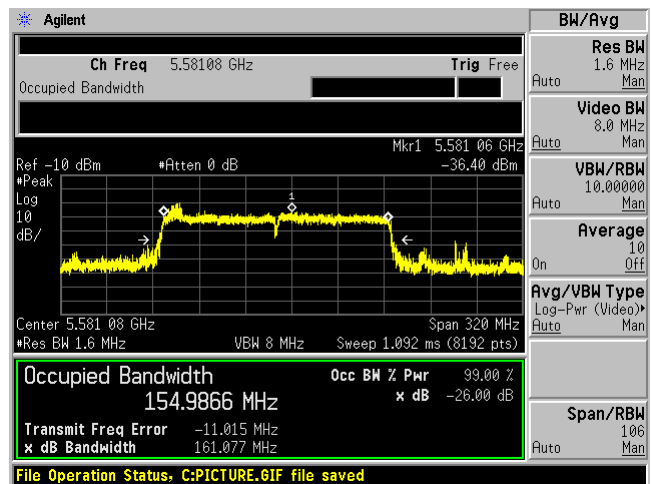
40 MHz



80 MHz

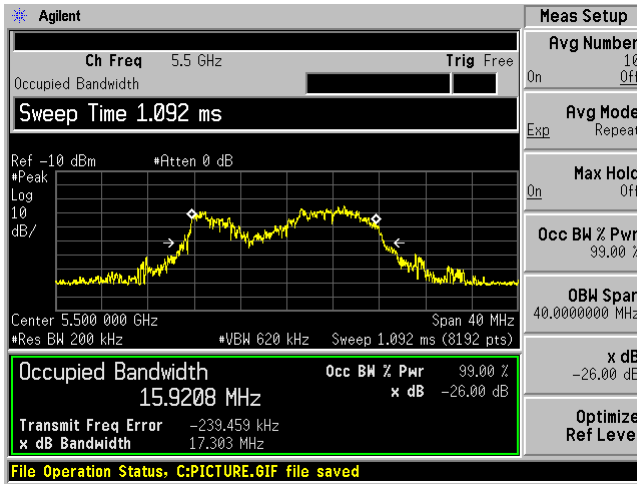


160 MHz

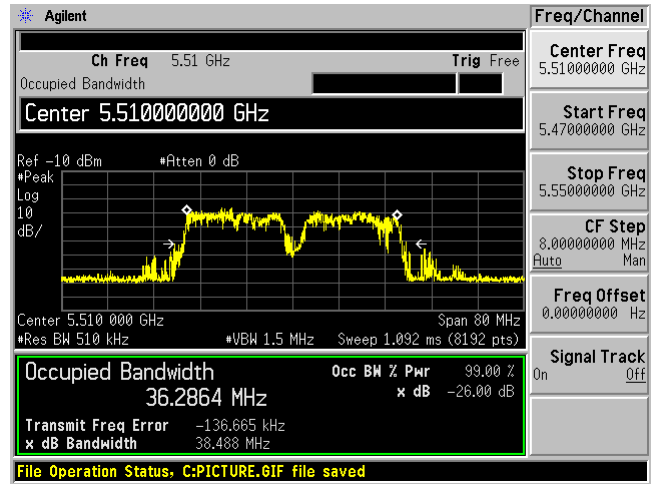


P2P Master Mode Iron Radio

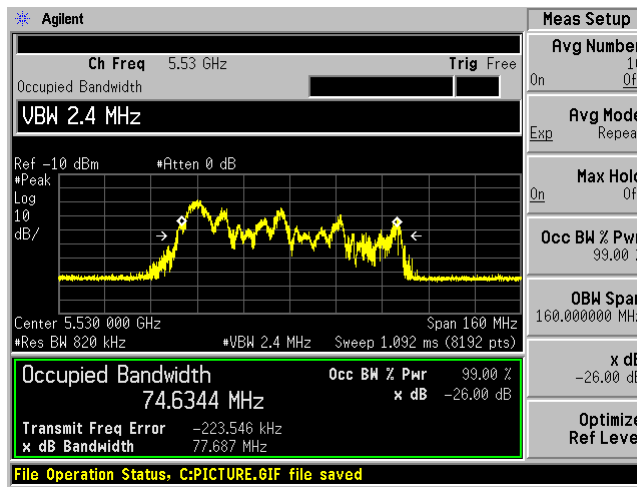
20 MHz



40 MHz

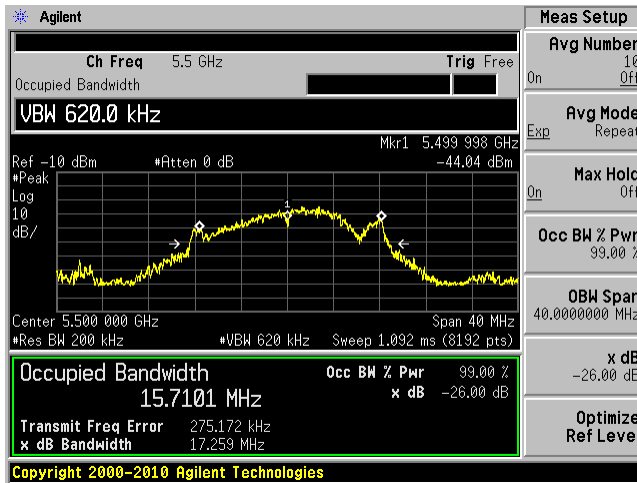


80 MHz

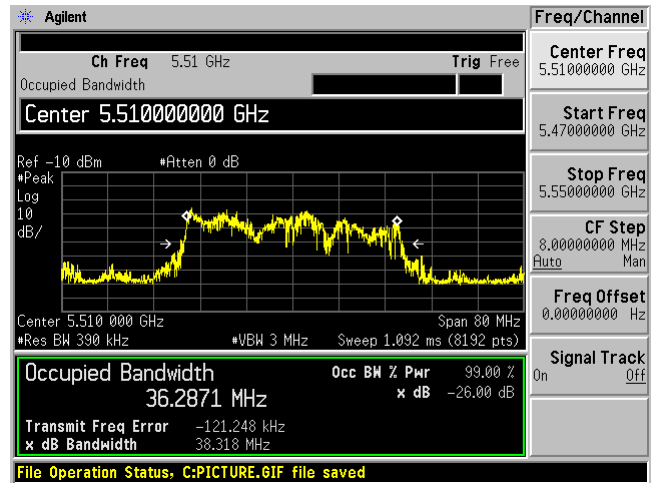


Pine Radio

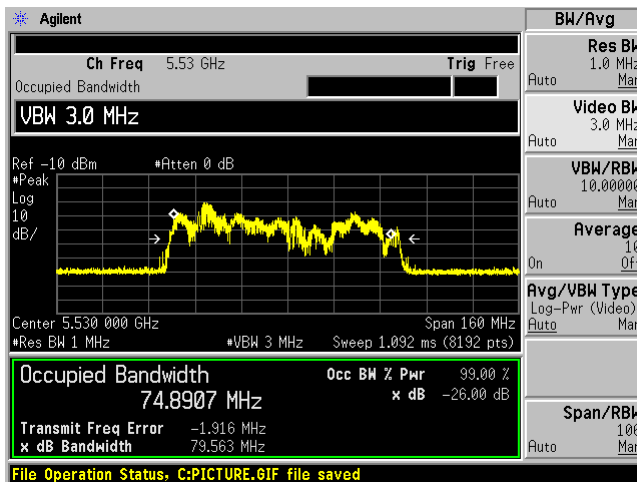
20 MHz



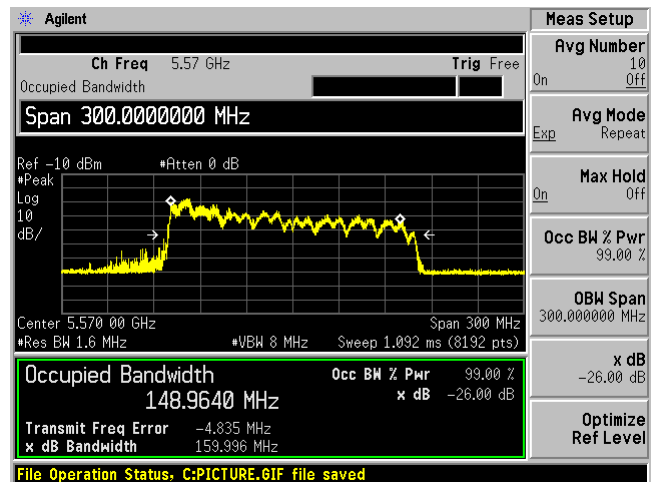
40 MHz



80 MHz

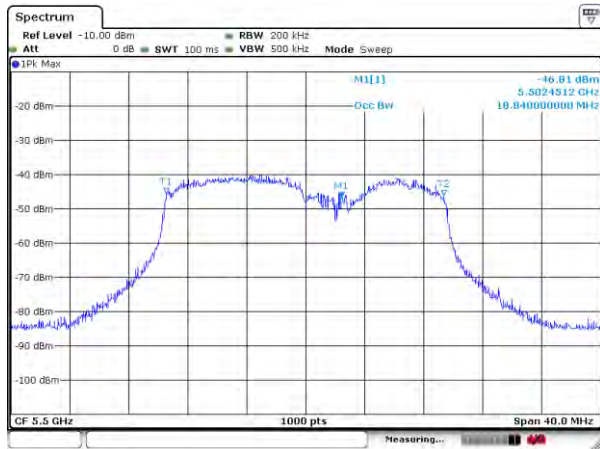


160 MHz



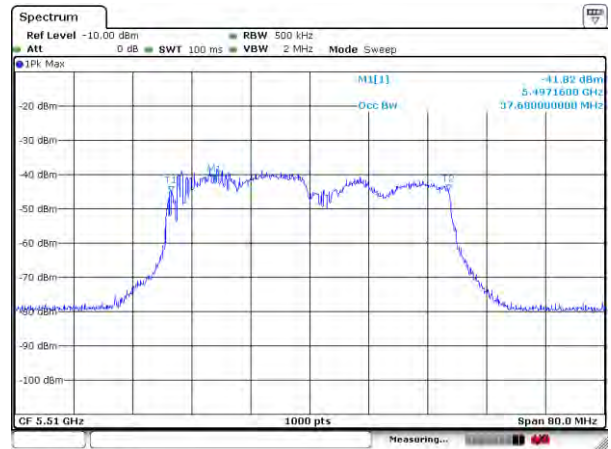
P2MP Master Mode Iron Radio

20 MHz



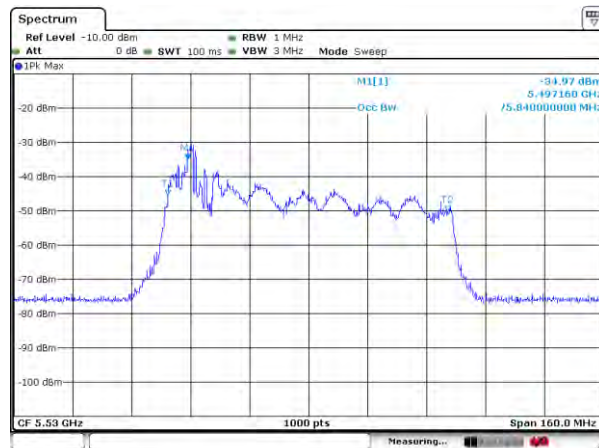
Date: 22.DEC.2022 09:02:44

40 MHz



Date: 22.DEC.2022 09:54:45

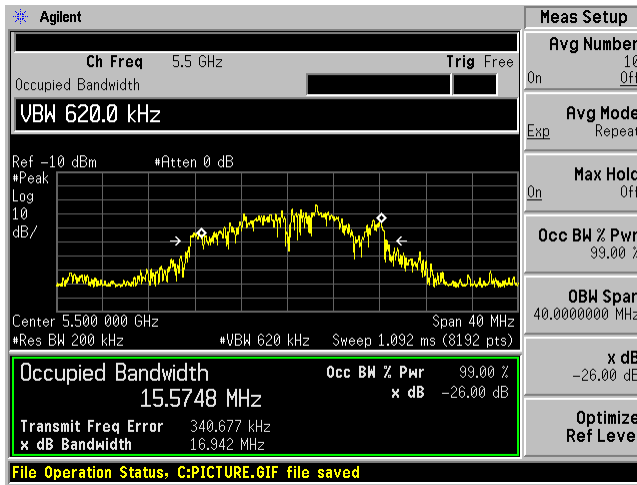
80 MHz



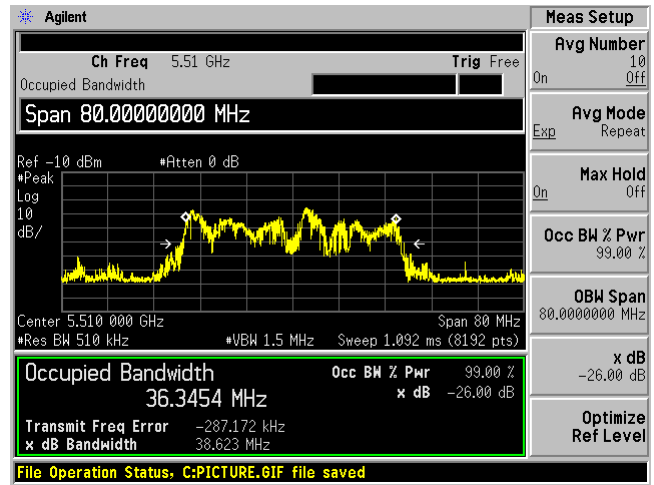
Date: 22.DEC.2022 11:05:01

Pine Radio

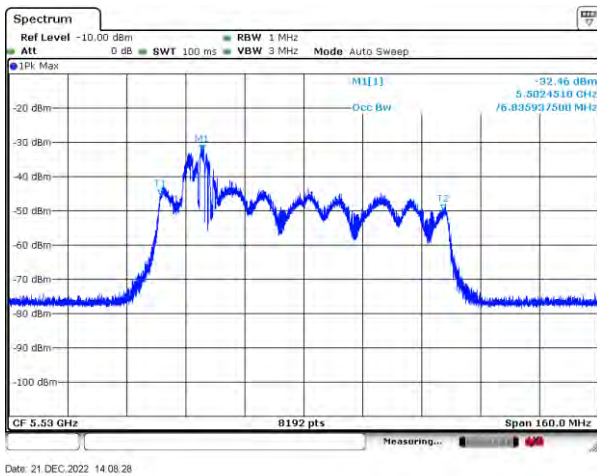
20 MHz



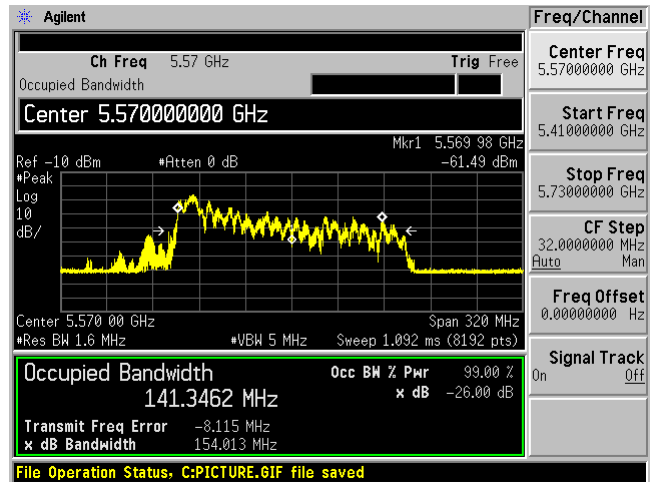
40 MHz



80 MHz

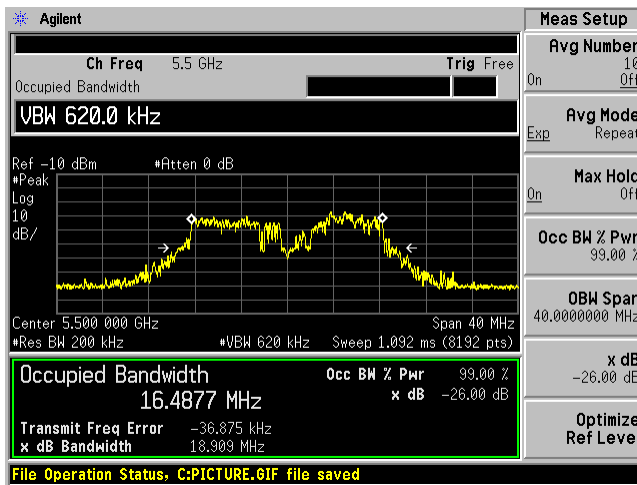


160 MHz

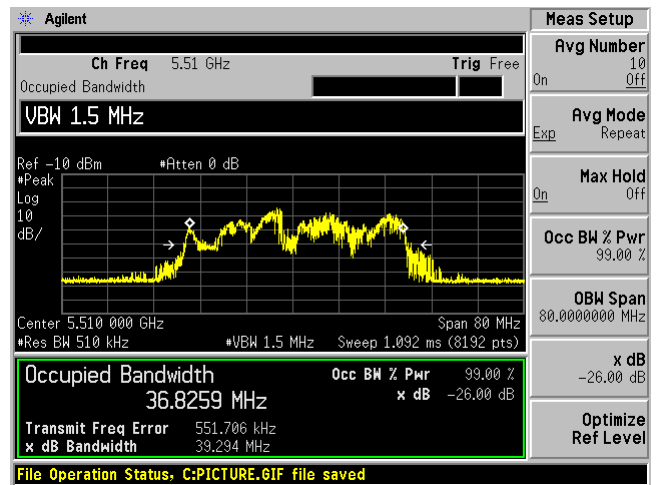


P2MP Client Mode Iron Radio

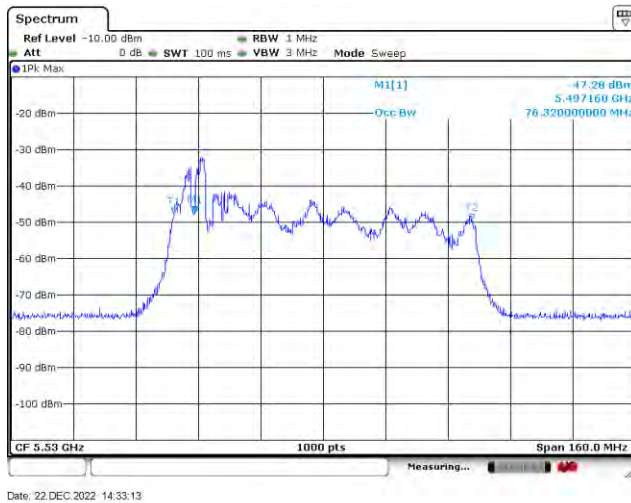
20 MHz



40 MHz

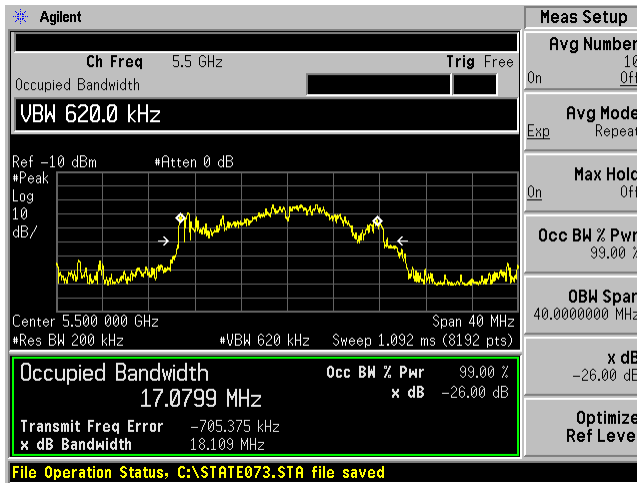


80 MHz

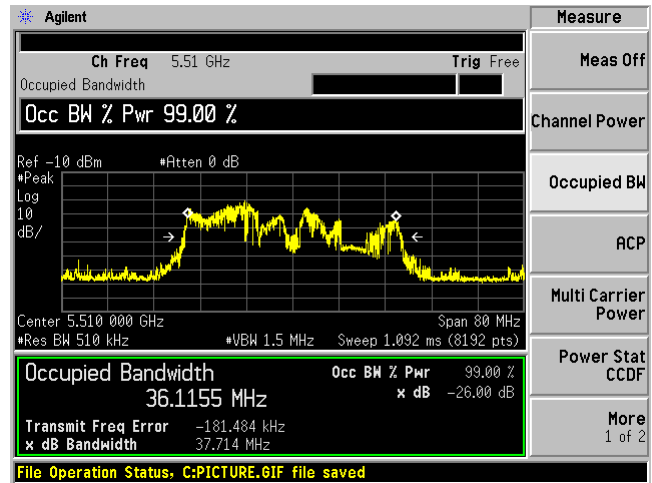


Pine Radio

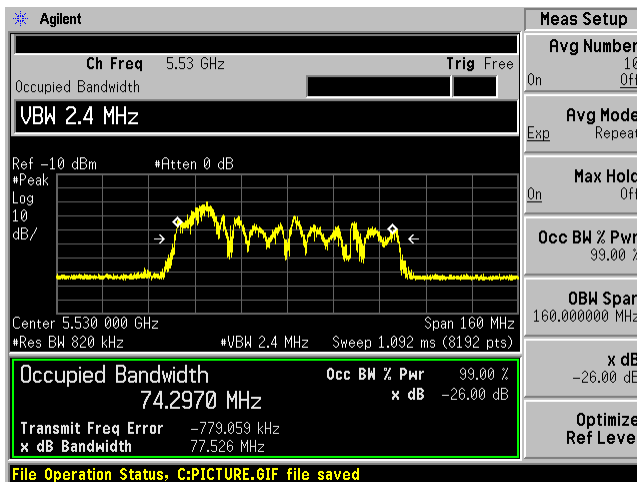
20 MHz



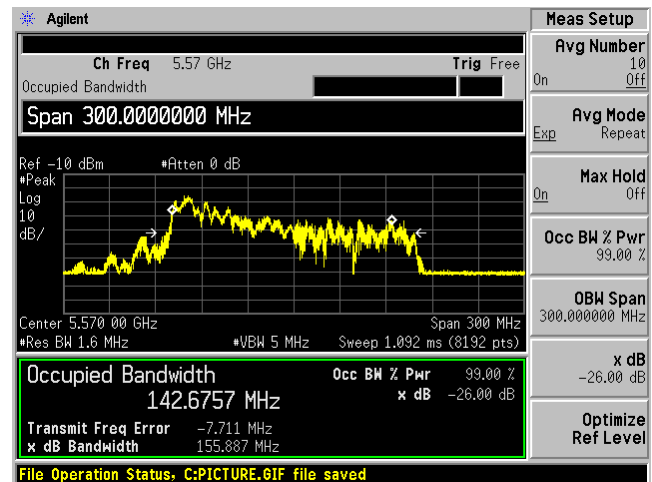
40 MHz



80 MHz



160 MHz



9.2 Radar Detection Performance Check

Procedure:

Start iperf traffic from master device to client device.

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:

**AP Mode
Iron Radio****5500 MHz, 20 MHz Bandwidth**

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1A/1B	30	90 %	60%	Pass
Type 2	30	83.3%	60%	Pass
Type 3	30	76.7%	60%	Pass
Type 4	30	76.7%	60%	Pass
Aggregate (Type1 to 4)	120	81.7%	80%	Pass
Type 5	30	100%	80%	Pass
Type 6	30	100%	70%	Pass

Please refer to the following statistical tables:

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

Note: Radar was generated randomly in the frequency range of 5490-5510 MHz.

Trial #	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	62	1.0	858	1
2	72	1.0	738	1
3	18	1.0	3066	1
4	65	1.0	818	1
5	102	1.0	518	1
6	92	1.0	578	1
7	63	1.0	838	1
8	67	1.0	798	1
9	70	1.0	758	1
10	86	1.0	618	1
11	99	1.0	538	1
12	81	1.0	658	1
13	89	1.0	598	1
14	76	1.0	698	1
15	83	1.0	638	1
16	37	1.0	1433	1
17	19	1.0	2834	1
18	42	1.0	1285	1
19	27	1.0	1972	0
20	19	1.0	2919	1
21	29	1.0	1820	1
22	73	1.0	726	1
23	25	1.0	2133	1
24	41	1.0	1301	1
25	43	1.0	1234	1
26	22	1.0	2461	0
27	26	1.0	2041	1
28	50	1.0	1077	1
29	19	1.0	2846	0
30	23	1.0	2394	1
Detection Percentage: 90% (>60%)				

Table-2 Radar Type 2 Statistical Performance

Note: Radar was generated randomly in the frequency range of 5490-5510 MHz.

Trial #	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	25	3.3	155	1
2	25	1.4	174	1
3	23	1.3	201	1
4	28	1.1	178	0
5	25	4.0	194	1
6	23	4.6	152	1
7	25	4.5	163	1
8	26	3.9	189	0
9	26	4.3	168	1
10	26	2.0	195	1
11	29	3.1	227	1
12	29	4.1	221	1
13	28	4.7	203	1
14	29	3.8	219	1
15	28	4.2	204	1
16	25	1.3	198	1
17	26	3.3	163	1
18	28	1.9	183	1
19	28	3.1	181	1
20	23	2.4	185	0
21	26	1.6	172	0
22	29	3.4	199	1
23	29	2.7	225	1
24	29	1.0	192	0
25	23	1.2	210	1
26	27	4.6	196	1
27	24	2.6	207	1
28	25	1.5	198	1
29	27	2.8	191	1
30	23	1.8	203	1
Detection Percentage: 83.3 % (>60%)				

Table-3 Radar Type 3 Statistical Performance

Note: Radar was generated randomly in the frequency range of 5490-5510 MHz.

Trial #	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	16	9.0	288	1
2	16	6.6	378	1
3	18	7.7	224	1
4	16	9.8	236	0
5	18	9.8	314	1
6	17	8.7	246	1
7	16	8.5	372	1
8	18	9.9	446	1
9	18	6.9	242	0
10	17	6.2	334	1
11	17	7.5	334	1
12	17	6.2	396	0
13	18	7.4	313	1
14	18	9.0	222	0
15	18	7.4	308	1
16	17	9.6	401	1
17	18	8.9	435	1
18	16	8.7	333	1
19	17	6.8	426	0
20	18	8.6	490	1
21	18	9.9	237	1
22	17	6.0	311	0
23	17	7.4	491	1
24	17	9.8	415	1
25	16	6.9	381	1
26	16	9.5	358	0
27	16	9.9	232	1
28	18	8.7	280	1
29	17	7.3	208	1
30	18	7.3	316	1
Detection Percentage: 76.7 % (>60%)				

Table-4 Radar Type 4 Statistical Performance

Note: Radar was generated randomly in the frequency range of 5490-5510 MHz.

Trial #	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	16	12.3	229	1
2	14	18.5	384	1
3	14	17.3	260	1
4	13	18.6	349	1
5	14	17.6	280	1
6	14	14.7	460	1
7	14	12.3	282	0
8	13	15.1	235	1
9	14	11.2	274	1
10	16	13.0	305	0
11	16	17.6	278	1
12	15	18.2	230	1
13	16	11.3	413	1
14	15	19.1	380	1
15	13	17.1	476	1
16	15	12.5	376	1
17	13	17.5	467	0
18	14	14.6	378	1
19	16	18.3	240	0
20	13	17.4	409	0
21	12	12.7	405	1
22	16	11.1	414	1
23	12	17.8	340	1
24	15	19.0	454	1
25	15	16.2	372	1
26	15	12.7	326	1
27	13	16.9	396	1
28	16	13.1	438	0
29	15	11.7	201	1
30	12	18.7	277	0
Detection Percentage: 76.7 % (>60%)				

Table-5 Radar Type 5 Statistical Performance

Trial #	Fc (MHz)	Detection (1:yes; 0:no)
1	5500	1
2	5500	1
3	5500	1
4	5500	1
5	5500	1
6	5500	1
7	5500	1
8	5500	1
9	5500	1
10	5500	1
11	5493.9	1
12	5494.3	1
13	5499.1	1
14	5494.7	1
15	5494.7	1
16	5498.3	1
17	5495.5	1
18	5494.3	1
19	5493.9	1
20	5497.5	1
21	5500.9	1
22	5503.7	1
23	5505.7	1
24	5502.9	1
25	5503.3	1
26	5502.5	1
27	5504.9	1
28	5506.1	1
29	5505.7	1
30	5501.7	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	3	10	57.1	1560	1901	0.277816	1
1	2	10	64.3	1975		1.099652	
2	2	10	78.1	1982		1.640618	
3	3	10	77.1	1817	1270	2.137959	
4	2	10	72.3	1779		2.689543	
5	3	10	56.1	1073	1067	3.315662	
6	3	10	67.0	1957	1157	3.972446	
7	3	10	82.4	1279	1235	4.975438	
8	3	10	78.5	1230	1836	5.635589	
9	1	10	99.0			6.125309	
10	1	10	66.6			6.399434	
11	3	10	71.3	1354	1176	6.999540	
12	2	10	78.8	1344		7.997057	
13	2	10	74.9	1685		8.436074	
14	1	10	64.0			9.142537	
15	1	10	73.3			10.077911	
16	1	10	64.2			10.525268	
17	3	10	76.0	1035	1020	10.990089	
18	2	10	61.1	1374		11.516686	

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	14	69.3	1401	1607	0.639241	1
1	3	14	82.7	1481	1082	1.055966	
2	1	14	87.0			1.397439	
3	1	14	52.9			2.305240	
4	3	14	87.5	1698	1412	3.043139	
5	2	14	93.0	1314		3.982065	
6	2	14	71.1	1488		4.246289	
7	2	14	59.9	1222		4.722570	
8	1	14	66.5			5.653863	
9	1	14	89.1			6.558761	
10	1	14	53.9			6.972375	
11	1	14	69.3			7.638288	
12	1	14	67.5			8.009585	
13	3	14	62.4	1996	1802	8.764495	
14	1	14	85.1			9.636982	
15	1	14	82.6			10.538639	
16	1	14	71.0			11.157324	
17	1	14	55.6			11.807090	

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	19	72.6	1114		0.133821	1
1	3	19	60.0	1625	1153	1.005256	
2	2	19	75.3	1521		1.799525	
3	2	19	63.4	1386		3.103433	
4	3	19	51.2	1391	1056	3.278987	
5	1	19	62.8			4.030728	
6	2	19	82.1	1920		4.899893	
7	2	19	83.5	1005		6.264645	
8	2	19	94.8	1094		6.927104	
9	3	19	52.5	1860	1316	7.253143	
10	3	19	77.0	1799	1526	8.070073	
11	2	19	77.6	1435		9.386583	
12	2	19	75.3	1386		9.670700	
13	3	19	68.3	1052	1090	10.639302	
14	1	19	86.4			11.563445	

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	10	85.7	1949		0.030304	1
1	2	10	66.9	1769		0.930960	
2	3	10	98.9	1169	1757	1.622444	
3	2	10	77.9	1187		2.430780	
4	3	10	64.1	1665	1946	3.555301	
5	1	10	51.1			4.124290	
6	2	10	70.5	1921		4.510383	
7	3	10	98.7	1489	1332	5.259298	
8	3	10	67.3	1947	1912	6.292578	
9	3	10	93.8	1117	1202	7.077838	
10	3	10	93.4	1960	1771	7.698591	
11	2	10	75.6	1688		8.768959	
12	3	10	56.3	1996	1629	9.259770	
13	1	10	79.2			9.970740	
14	3	10	78.1	1506	1190	11.223598	
15	1	10	50.9			11.296094	

Bin5 Statistics 5

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	5	71.5	1835	1872	0.614878	1
1	2	5	89.9	1419		2.017360	
2	2	5	87.1	1840		3.201943	
3	1	5	50.7			4.305129	
4	1	5	86.9			6.078961	
5	1	5	58.4			6.842129	
6	1	5	99.6			8.901763	
7	1	5	74.8			10.518329	
8	3	5	87.2	1592	1834	11.297282	

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	7	62.4	1940		0.124424	1
1	3	7	56.2	1483	1901	1.033912	
2	3	7	69.9	1027	1721	2.059187	
3	2	7	66.9	1727		3.381178	
4	3	7	76.2	1093	1421	3.699857	
5	2	7	81.9	1604		5.168305	
6	3	7	82.5	1653	1050	6.171234	
7	2	7	69.2	1232		6.880693	
8	1	7	86.1			7.385598	
9	2	7	75.2	1171		8.486742	
10	1	7	68.7			9.988856	
11	2	7	86.8	1800		10.676857	
12	1	7	61.2			11.406469	

Bin5 Statistics 7

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	6	65.7	1504		0.168546	1
1	2	6	63.3	1678		1.552898	
2	2	6	98.8	1165		3.558332	
3	1	6	77.7			4.059807	
4	2	6	80.0	1214		5.630684	
5	1	6	76.4			6.654772	
6	2	6	79.8	1307		8.100104	
7	3	6	92.9	1672	1500	8.833974	
8	3	6	60.7	1042	1232	10.443251	
9	2	6	79.4	1604		11.887963	

Bin5 Statistics 8

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	11	51.8	1784		0.053270	1
1	3	11	63.2	1959	1887	1.071222	
2	2	11	97.0	1516		1.499197	
3	2	11	77.6	1816		2.767156	
4	1	11	51.4			3.083377	
5	2	11	79.6	1362		3.531648	
6	1	11	86.8			4.514134	
7	3	11	85.8	1035	1175	4.991637	
8	2	11	89.2	1685		6.128576	
9	2	11	83.0	1513		6.580843	
10	2	11	79.3	1701		7.355287	
11	1	11	93.2			7.855959	
12	3	11	73.8	1833	1859	8.811398	
13	2	11	64.5	1149		9.698883	
14	3	11	70.5	1503	1313	9.995324	
15	3	11	80.3	1933	1109	11.183370	
16	2	11	69.3	1924		11.473931	

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	14	69.6	1557		0.650816	1
1	2	14	97.0	1206		1.915979	
2	2	14	53.3	1155		3.233414	
3	2	14	52.0	1650		3.762892	
4	1	14	71.9			5.587236	
5	3	14	90.4	1420	1085	6.342111	
6	3	14	78.6	1442	1338	7.616477	
7	3	14	54.1	1880	1474	9.517836	
8	3	14	50.1	1136	1346	9.891016	
9	1	14	71.2			11.584835	

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	11	86.3	1900		0.570235	1
1	1	11	70.3			1.365946	
2	3	11	95.9	1882	1163	2.504084	
3	1	11	65.5			3.301595	
4	2	11	54.7	1302		3.790419	
5	3	11	80.1	1683	1997	4.646384	
6	2	11	67.1	1831		5.210545	
7	3	11	56.2	1733	1244	6.349513	
8	2	11	99.1	1025		7.092387	
9	1	11	53.8			8.197979	
10	1	11	63.0			8.902892	
11	3	11	61.4	1839	1369	9.828982	
12	3	11	72.8	1858	1148	10.447923	
13	3	11	67.9	1077	1344	11.824720	

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	6	50.8			0.243608	1
1	2	6	68.6	1720		1.371484	
2	2	6	65.8	1842		2.920069	
3	3	6	70.1	1904	1556	4.151835	
4	2	6	67.8	1493		4.911206	
5	1	6	76.3			6.246703	
6	2	6	74.3	1541		7.371653	
7	1	6	60.4			7.823250	
8	1	6	67.0			9.608069	
9	2	6	97.1	1825		10.549848	
10	2	6	61.9	1143		10.990379	

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	7	66.0	1803	1233	0.056145	1
1	1	7	69.1			0.775286	
2	2	7	85.3	1181		1.454694	
3	3	7	71.9	1928	1145	2.118053	
4	1	7	97.4			3.182741	
5	1	7	61.1			3.938054	
6	1	7	61.3			4.257285	
7	1	7	63.6			5.104976	
8	2	7	99.9	1151		5.647545	
9	1	7	86.8			6.852330	
10	3	7	57.1	1687	1158	7.692647	
11	2	7	54.5	1760		8.441177	
12	3	7	63.0	1351	1551	8.917146	
13	3	7	55.0	1021	1084	9.497792	
14	1	7	56.0			10.203505	
15	2	7	88.4	1968		11.233942	
16	3	7	71.3	1744	1676	11.306850	

Bin5 Statistics 13

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	7	66.0	1803	1233	0.056145	1
1	1	7	69.1			0.775286	
2	2	7	85.3	1181		1.454694	
3	3	7	71.9	1928	1145	2.118053	
4	1	7	97.4			3.182741	
5	1	7	61.1			3.938054	
6	1	7	61.3			4.257285	
7	1	7	63.6			5.104976	
8	2	7	99.9	1151		5.647545	
9	1	7	86.8			6.852330	
10	3	7	57.1	1687	1158	7.692647	
11	2	7	54.5	1760		8.441177	
12	3	7	63.0	1351	1551	8.917146	
13	3	7	55.0	1021	1084	9.497792	
14	1	7	56.0			10.203505	

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	8	56.2	1868	1502	0.585879	1
1	2	8	84.1	1347		1.488355	
2	2	8	77.3	1879		2.470526	
3	1	8	70.2			3.670749	
4	2	8	53.8	1452		4.537568	
5	3	8	71.1	1859	1504	5.082689	
6	3	8	83.7	1221	1350	6.213477	
7	2	8	74.2	1749		6.843537	
8	3	8	76.9	1163	1112	7.589384	
9	3	8	97.5	1976	1234	8.655621	
10	1	8	59.6			9.303729	
11	2	8	60.9	1545		10.215824	
12	2	8	84.5	2000		11.660944	

Bin5 Statistic 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	8	87.5			0.622815	1
1	1	8	67.2			1.494174	
2	2	8	85.7	1366		2.384294	
3	2	8	89.6	1283		3.393410	
4	2	8	81.3	1699		3.897964	
5	3	8	63.2	1449	1216	4.835533	
6	2	8	93.1	1317		6.215247	
7	2	8	77.3	1193		7.096278	
8	2	8	58.0	1073		7.952586	
9	3	8	65.7	1213	1296	8.895452	
10	1	8	99.8			9.970884	
11	2	8	76.0	1453		10.604984	
12	2	8	71.1	1857		11.336906	

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	17	76.3	1949		0.063383	1
1	1	17	59.8			0.624278	
2	1	17	55.6			1.529575	
3	2	17	77.7	1144		2.299491	
4	1	17	53.8			2.662163	
5	1	17	56.0			3.428918	
6	2	17	71.1	1082		3.957297	
7	2	17	91.7	1539		4.342358	
8	1	17	92.2			4.802308	
9	2	17	71.5	1665		5.489741	
10	2	17	87.1	1659		6.461765	
11	3	17	55.0	1574	1408	6.911787	
12	3	17	98.8	1378	1211	7.596028	
13	2	17	66.6	1600		8.208736	
14	3	17	99.9	1431	1779	8.821355	
15	3	17	55.0	1210	1732	9.170489	
16	2	17	78.2	1154		10.161251	
17	3	17	96.3	1977	1792	10.373644	
18	1	17	88.7			10.822833	
19	1	17	68.3			11.777061	

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	10	66.6	1372		0.665223	1
1	2	10	85.2	1287		0.943384	
2	2	10	74.5	1931		2.038602	
3	3	10	71.9	1680	1732	2.768357	
4	3	10	61.8	1902	1208	3.125159	
5	2	10	61.9	1831		3.964528	
6	2	10	86.6	1023		4.755794	
7	1	10	76.7			5.081122	
8	2	10	94.8	1728		5.843330	
9	2	10	51.1	1471		6.720923	
10	2	10	87.2	1606		7.519724	
11	2	10	50.0	1527		7.992599	
12	2	10	77.4	1903		9.083589	
13	2	10	74.2	1362		9.833305	
14	2	10	50.8	1492		10.422703	
15	2	10	56.7	1819		10.607324	
16	2	10	91.5	1853		11.323050	

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	7	56.0			0.125923	1
1	1	7	99.1			0.863244	
2	2	7	55.6	1695		1.349464	
3	2	7	57.1	1216		2.146226	
4	1	7	81.1			2.966740	
5	2	7	65.0	1431		3.161405	
6	1	7	60.6			3.914971	
7	2	7	70.0	1180		4.445991	
8	2	7	54.7	1030		5.351077	
9	2	7	79.0	1935		5.480377	
10	3	7	60.7	1725	1596	6.059298	
11	3	7	57.7	1775	1495	6.648724	
12	2	7	62.3	1200		7.699749	
13	2	7	61.7	1495		8.235705	
14	2	7	85.5	1071		8.479760	
15	3	7	63.5	1112	1538	9.067614	
16	2	7	82.8	1132		9.700796	
17	2	7	76.2	1874		10.277058	
18	3	7	65.4	1954	1343	11.158410	
19	1	7	73.9			11.684637	

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	6	72.7	1391	1106	0.788764	1
1	2	6	57.7	1324		1.547469	
2	2	6	74.8	1678		1.741146	
3	1	6	87.1			3.179889	
4	2	6	51.4	1207		3.754246	
5	3	6	59.2	1347	1448	4.195043	
6	2	6	73.8	1739		4.944467	
7	2	6	92.2	1703		6.369905	
8	3	6	52.0	1613	1691	6.597652	
9	2	6	91.6	1327		7.841525	
10	1	6	67.8			8.756950	
11	1	6	81.0			9.537840	
12	3	6	73.5	1297	1103	9.905130	
13	3	6	93.2	1664	1567	10.986561	
14	2	6	53.1	1298		11.397496	

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	15	71.5	1534	1642	0.088166	1
1	1	15	79.6			0.840210	
2	3	15	60.7	1033	1256	1.624403	
3	2	15	61.1	1847		2.529952	
4	2	15	94.9	1057		3.469780	
5	1	15	97.5			3.591819	
6	2	15	94.9	1774		4.246056	
7	1	15	54.5			5.221310	
8	2	15	99.9	1237		6.281911	
9	1	15	94.8			6.782037	
10	3	15	54.8	1796	1357	7.455597	
11	2	15	88.5	1939		8.411559	
12	1	15	92.0			8.986376	
13	1	15	50.5			9.814124	
14	2	15	61.4	1324		10.190344	
15	1	15	55.0			11.123791	
16	3	15	70.5	1214	1305	11.619499	

Bin5 Statistics 21

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	19	58.2	1452		0.525942	1
1	1	19	72.1			1.391673	
2	2	19	51.4	1668		2.679743	
3	2	19	54.9	1601		4.277597	
4	1	19	54.5			4.989897	
5	2	19	90.9	1038		6.113992	
6	2	19	87.3	1037		6.623376	
7	1	19	81.7			8.508980	
8	2	19	99.6	1807		9.681000	
9	1	19	64.9			10.569684	
10	2	19	59.6	1883		11.991472	
0	2	19	58.2	1452		0.525942	

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	12	61.5			0.142318	1
1	3	12	95.9	1431	1621	1.129871	
2	3	12	77.1	1526	1312	2.762571	
3	1	12	97.8			3.074906	
4	1	12	61.5			3.758085	
5	1	12	63.9			5.192329	
6	3	12	58.4	1111	1151	6.336471	
7	2	12	66.0	1718		7.339361	
8	2	12	76.7	1739		7.873605	
9	2	12	98.9	1889		9.066212	
10	3	12	97.1	1865	1168	9.990876	
11	1	12	73.5			11.012081	
12	3	12	78.2	1074	1005	11.622697	

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	91.1	1242	1073	0.058093	1
1	2	7	73.7	1557		1.457902	
2	2	7	50.1	1964		1.736002	
3	2	7	72.3	1338		2.324139	
4	2	7	82.9	1893		3.733216	
5	3	7	53.4	1755	1539	4.210353	
6	2	7	64.2	1764		4.647720	
7	1	7	61.9			5.913432	
8	2	7	63.5	1254		6.469788	
9	2	7	70.6	1673		6.763422	
10	1	7	86.8			7.737697	
11	2	7	61.1	1258		8.575855	
12	3	7	56.5	1583	1629	9.008558	
13	2	7	65.8	1951		10.347193	
14	1	7	76.4			10.623905	
15	1	7	80.6			11.444031	

Bin5 Statistics 24

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	14	91.4	1760		0.168447	1
1	1	14	66.5			1.951712	
2	2	14	86.0	1946		2.098653	
3	1	14	90.3			3.132260	
4	3	14	53.2	1107	1730	4.754127	
5	3	14	70.8	1245	1780	5.596817	
6	2	14	61.2	1075		6.624427	
7	2	14	63.3	1881		7.737274	
8	2	14	77.2	1219		8.149497	
9	2	14	60.8	1442		9.295262	
10	1	14	95.6			10.003879	
11	2	14	74.3	1662		11.136261	

Bin5 Statistics 25

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	13	98.5			0.514160	1
1	1	13	83.7			0.772549	
2	3	13	88.4	1696	1800	1.463712	
3	2	13	78.2	1344		2.732784	
4	3	13	64.1	1444	1739	3.303028	
5	1	13	74.6			3.594815	
6	3	13	84.9	1693	1668	4.471400	
7	1	13	69.7			5.591576	
8	3	13	53.4	1610	1825	5.900374	
9	2	13	74.7	1215		6.760046	
10	2	13	96.7	1494		7.480502	
11	1	13	91.8			7.851382	
12	2	13	63.8	1503		8.920543	
13	2	13	70.2	1948		9.392292	
14	3	13	80.7	1245	1780	10.470868	
15	2	13	59.8	1499		11.241362	
16	1	13	94.0			11.984454	

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	15	58.6	1518	1471	0.933241	1
1	1	15	94.2			1.391790	
2	2	15	78.0	1849		3.541743	
3	2	15	78.4	1823		4.449790	
4	1	15	56.9			5.401608	
5	2	15	78.9	1070		7.004430	
6	1	15	86.9			7.789009	
7	1	15	67.5			8.737345	
8	2	15	60.1	1570		10.165863	
9	2	15	64.7	1542		11.412291	

Bin5 Statistics 27

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	9	61.8	1658	1553	1.322020	1
1	2	9	95.0	1762		2.226366	
2	1	9	58.1			2.982559	
3	3	9	50.5	1348	1197	4.973764	
4	2	9	57.8	1808		6.521840	
5	2	9	70.6	1551		7.579845	
6	2	9	52.5	1068		8.619337	
7	2	9	58.5	1725		9.955201	
8	1	9	75.5			11.393717	

Bin5 Statistics 28

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	6	91.1	1067	1799	0.437748	1
1	3	6	71.8	1062	1358	0.850714	
2	2	6	65.3	1859		1.718407	
3	3	6	76.9	1089	1769	2.413545	
4	2	6	51.3	1420		3.047636	
5	1	6	81.3			4.345845	
6	2	6	77.3	1773		4.732925	
7	2	6	89.4	1964		5.884625	
8	2	6	61.6	1687		6.137109	
9	3	6	74.1	1971	1504	6.913830	
10	2	6	94.6	1745		8.092354	
11	2	6	92.0	1787		8.885548	
12	2	6	50.1	1715		9.542195	
13	1	6	75.6			9.851792	
14	1	6	91.9			10.523917	
15	2	6	69.2	1744		11.638465	

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	7	72.4			0.055640	1
1	3	7	88.8	1307	1880	0.974346	
2	1	7	55.0			2.025881	
3	2	7	84.6	1620		2.669665	
4	1	7	72.1			3.348771	
5	2	7	61.4	1714		4.483043	
6	1	7	70.2			5.165008	
7	3	7	56.4	1384	1070	6.118077	
8	2	7	73.4	1873		6.557652	
9	2	7	55.5	1638		7.276444	
10	2	7	66.3	1788		8.602942	
11	2	7	52.0	1783		9.264254	
12	2	7	83.7	1397		9.775841	
13	2	7	52.0	1152		10.650596	
14	2	7	82.6	1741		11.961797	

Bin5 Statistics 30

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	17	60.9	1783		0.346590	1
1	2	17	68.6	1945		0.734099	
2	2	17	66.3	1481		1.272907	
3	2	17	72.9	1824		2.321414	
4	1	17	64.8			3.040037	
5	1	17	87.9			3.395568	
6	2	17	85.3	1880		4.065569	
7	2	17	66.4	1082		4.743651	
8	2	17	71.9	1209		5.618453	
9	2	17	88.4	1730		5.772933	
10	2	17	52.6	1736		6.467317	
11	1	17	84.5			7.352838	
12	2	17	61.3	1874		7.858154	
13	3	17	79.1	1298	1566	8.689720	
14	1	17	54.2			9.282199	
15	2	17	63.7	1505		9.803465	
16	1	17	76.6			10.698826	
17	2	17	93.8	1817		11.067248	
18	3	17	84.5	1558	1898	11.989248	

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	5500.0	9	1.0	333	1	5632.0, 5651.0, 5576.0, 5610.0, 5434.0, 5642.0, 5649.0, 5377.0, 5505.0, 5572.0, 5452.0, 5266.0, 5646.0, 5553.0, 5523.0, 5292.0, 5618.0, 5588.0, 5446.0, 5587.0, 5494.0, 5297.0, 5626.0, 5603.0, 5538.0, 5299.0, 5366.0, 5548.0, 5605.0, 5635.0, 5410.0, 5620.0, 5482.0, 5672.0, 5660.0, 5578.0, 5363.0, 5540.0, 5332.0, 5513.0, 5638.0, 5414.0, 5406.0, 5282.0, 5533.0, 5684.0, 5595.0, 5475.0, 5569.0, 5374.0, 5470.0, 5707.0, 5327.0, 5316.0, 5559.0, 5364.0, 5490.0, 5267.0, 5615.0, 5543.0, 5688.0, 5645.0, 5413.0, 5275.0, 5361.0, 5666.0, 5537.0, 5367.0, 5719.0, 5399.0, 5721.0, 5269.0, 5442.0, 5489.0, 5653.0, 5422.0, 5687.0, 5380.0, 5424.0, 5574.0, 5658.0, 5488.0, 5416.0, 5271.0, 5627.0, 5252.0, 5599.0, 5713.0, 5558.0, 5461.0, 5417.0, 5705.0, 5469.0, 5591.0, 5409.0, 5671.0, 5334.0, 5421.0, 5328.0, 5431.0 (number of hits: 2)
2	5500.0	9	1.0	333	1	5648.0, 5462.0, 5252.0, 5257.0, 5414.0, 5606.0, 5353.0, 5432.0, 5292.0, 5673.0, 5286.0, 5341.0, 5263.0, 5714.0, 5474.0, 5282.0, 5289.0, 5451.0, 5581.0, 5691.0, 5439.0, 5378.0, 5357.0, 5722.0, 5327.0, 5649.0, 5342.0, 5488.0, 5655.0, 5539.0, 5325.0, 5464.0, 5674.0, 5390.0, 5572.0, 5584.0, 5703.0, 5279.0, 5619.0, 5713.0, 5720.0, 5523.0, 5367.0, 5684.0, 5592.0, 5254.0, 5348.0, 5300.0, 5446.0, 5319.0, 5631.0, 5374.0, 5261.0, 5360.0, 5354.0, 5613.0, 5548.0, 5598.0, 5278.0, 5499.0, 5369.0, 5570.0, 5277.0, 5471.0, 5440.0, 5520.0, 5317.0, 5496.0, 5404.0, 5526.0, 5356.0, 5387.0, 5671.0, 5614.0, 5401.0, 5616.0, 5675.0, 5615.0, 5578.0, 5381.0, 5363.0, 5352.0, 5586.0, 5678.0, 5437.0, 5512.0, 5587.0, 5478.0, 5535.0, 5711.0, 5280.0, 5677.0, 5351.0, 5569.0, 5408.0, 5309.0, 5692.0, 5700.0, 5650.0, 5541.0 (number of hits: 2)
3	5500.0	9	1.0	333	1	5709.0, 5669.0, 5373.0, 5565.0, 5508.0, 5528.0, 5505.0, 5647.0, 5418.0, 5615.0, 5277.0, 5698.0, 5689.0, 5502.0, 5710.0, 5604.0, 5461.0, 5575.0, 5367.0, 5612.0, 5675.0, 5438.0, 5609.0, 5340.0, 5422.0, 5290.0, 5475.0, 5515.0, 5318.0, 5645.0, 5654.0, 5506.0, 5582.0, 5631.0, 5567.0, 5556.0, 5396.0, 5365.0, 5652.0, 5403.0, 5411.0, 5263.0, 5545.0, 5456.0, 5380.0, 5607.0, 5468.0, 5376.0, 5648.0, 5717.0, 5276.0, 5587.0, 5459.0, 5413.0, 5272.0, 5679.0, 5477.0, 5495.0, 5655.0, 5324.0, 5544.0, 5600.0, 5370.0, 5287.0, 5585.0, 5395.0, 5311.0, 5718.0, 5621.0, 5410.0

						5714.0, 5347.0, 5282.0, 5419.0, 5281.0, 5577.0, 5424.0, 5555.0, 5285.0, 5401.0, 5690.0, 5308.0, 5414.0, 5448.0, 5697.0, 5372.0, 5634.0, 5605.0, 5303.0, 5594.0, 5254.0, 5491.0, 5628.0, 5443.0, 5472.0, 5288.0, 5404.0, 5407.0, 5305.0, 5328.0 (number of hits: 4)
4	5500.0	9	1.0	333	1	5494.0, 5256.0, 5565.0, 5365.0, 5702.0, 5664.0, 5617.0, 5706.0, 5427.0, 5473.0, 5277.0, 5341.0, 5633.0, 5305.0, 5408.0, 5492.0, 5598.0, 5426.0, 5534.0, 5431.0, 5592.0, 5291.0, 5526.0, 5659.0, 5584.0, 5606.0, 5677.0, 5329.0, 5716.0, 5407.0, 5267.0, 5669.0, 5587.0, 5424.0, 5284.0, 5636.0, 5530.0, 5616.0, 5542.0, 5438.0, 5312.0, 5588.0, 5389.0, 5279.0, 5465.0, 5504.0, 5446.0, 5515.0, 5626.0, 5317.0, 5650.0, 5522.0, 5589.0, 5538.0, 5644.0, 5506.0, 5439.0, 5498.0, 5647.0, 5625.0, 5342.0, 5508.0, 5469.0, 5563.0, 5350.0, 5272.0, 5292.0, 5276.0, 5711.0, 5316.0, 5631.0, 5278.0, 5704.0, 5336.0, 5294.0, 5686.0, 5414.0, 5665.0, 5374.0, 5274.0, 5400.0, 5471.0, 5701.0, 5697.0, 5259.0, 5442.0, 5444.0, 5296.0, 5422.0, 5474.0, 5705.0, 5679.0, 5487.0, 5548.0, 5547.0, 5652.0, 5545.0, 5638.0, 5355.0, 5635.0 (number of hits: 5)
5	5500.0	9	1.0	333	1	5564.0, 5342.0, 5391.0, 5430.0, 5548.0, 5290.0, 5591.0, 5424.0, 5281.0, 5528.0, 5405.0, 5627.0, 5613.0, 5312.0, 5709.0, 5359.0, 5599.0, 5645.0, 5695.0, 5268.0, 5298.0, 5259.0, 5477.0, 5467.0, 5671.0, 5361.0, 5626.0, 5629.0, 5379.0, 5491.0, 5428.0, 5521.0, 5387.0, 5348.0, 5621.0, 5501.0, 5261.0, 5701.0, 5657.0, 5687.0, 5587.0, 5693.0, 5714.0, 5677.0, 5524.0, 5335.0, 5659.0, 5465.0, 5308.0, 5368.0, 5286.0, 5297.0, 5507.0, 5488.0, 5331.0, 5527.0, 5682.0, 5314.0, 5296.0, 5343.0, 5271.0, 5529.0, 5592.0, 5623.0, 5447.0, 5545.0, 5509.0, 5473.0, 5519.0, 5669.0, 5469.0, 5670.0, 5585.0, 5634.0, 5385.0, 5431.0, 5628.0, 5674.0, 5458.0, 5588.0, 5360.0, 5618.0, 5480.0, 5295.0, 5325.0, 5636.0, 5608.0, 5553.0, 5284.0, 5275.0, 5402.0, 5283.0, 5442.0, 5617.0, 5407.0, 5596.0, 5470.0, 5593.0, 5612.0, 5370.0 (number of hits: 2)
6	5505.0	9	1.0	333	1	5721.0, 5374.0, 5527.0, 5705.0, 5570.0, 5339.0, 5663.0, 5648.0, 5688.0, 5346.0, 5468.0, 5416.0, 5266.0, 5484.0, 5314.0, 5551.0, 5700.0, 5703.0, 5286.0, 5641.0, 5349.0, 5619.0, 5607.0, 5361.0, 5623.0, 5450.0, 5396.0, 5528.0, 5336.0, 5288.0, 5521.0, 5307.0, 5257.0, 5411.0, 5605.0, 5599.0, 5370.0, 5678.0, 5337.0, 5330.0, 5435.0, 5724.0, 5628.0, 5554.0, 5514.0, 5632.0, 5587.0, 5324.0, 5455.0, 5408.0, 5492.0, 5625.0, 5348.0, 5716.0, 5270.0, 5430.0, 5568.0, 5373.0, 5281.0, 5595.0,

						5615.0, 5422.0, 5333.0, 5310.0, 5345.0, 5556.0, 5679.0, 5538.0, 5375.0, 5562.0, 5470.0, 5321.0, 5417.0, 5560.0, 5303.0, 5522.0, 5691.0, 5695.0, 5567.0, 5368.0, 5606.0, 5708.0, 5263.0, 5309.0, 5674.0, 5608.0, 5261.0, 5279.0, 5653.0, 5407.0, 5479.0, 5384.0, 5426.0, 5376.0, 5380.0, 5686.0, 5697.0, 5273.0, 5575.0, 5504.0 (number of hits: 1)
7	5505.0	9	1.0	333	1	5460.0, 5719.0, 5436.0, 5435.0, 5656.0, 5599.0, 5641.0, 5420.0, 5624.0, 5678.0, 5322.0, 5504.0, 5316.0, 5559.0, 5677.0, 5670.0, 5541.0, 5572.0, 5326.0, 5446.0, 5320.0, 5409.0, 5488.0, 5552.0, 5534.0, 5536.0, 5589.0, 5694.0, 5539.0, 5568.0, 5374.0, 5569.0, 5355.0, 5654.0, 5597.0, 5482.0, 5288.0, 5499.0, 5440.0, 5590.0, 5644.0, 5497.0, 5708.0, 5379.0, 5337.0, 5469.0, 5443.0, 5354.0, 5524.0, 5578.0, 5275.0, 5307.0, 5718.0, 5308.0, 5300.0, 5341.0, 5528.0, 5449.0, 5276.0, 5426.0, 5491.0, 5594.0, 5579.0, 5430.0, 5584.0, 5503.0, 5309.0, 5543.0, 5712.0, 5512.0, 5366.0, 5393.0, 5628.0, 5451.0, 5605.0, 5546.0, 5660.0, 5317.0, 5680.0, 5422.0, 5289.0, 5695.0, 5509.0, 5416.0, 5514.0, 5721.0, 5662.0, 5348.0, 5475.0, 5496.0, 5631.0, 5265.0, 5653.0, 5652.0, 5251.0, 5570.0, 5411.0, 5473.0, 5588.0, 5301.0 (number of hits: 7)
8	5505.0	9	1.0	333	1	5539.0, 5490.0, 5383.0, 5332.0, 5282.0, 5429.0, 5368.0, 5268.0, 5556.0, 5661.0, 5345.0, 5364.0, 5583.0, 5361.0, 5338.0, 5589.0, 5283.0, 5585.0, 5647.0, 5542.0, 5457.0, 5562.0, 5624.0, 5620.0, 5694.0, 5369.0, 5285.0, 5458.0, 5333.0, 5261.0, 5262.0, 5688.0, 5276.0, 5275.0, 5666.0, 5462.0, 5405.0, 5571.0, 5616.0, 5533.0, 5534.0, 5537.0, 5707.0, 5473.0, 5511.0, 5609.0, 5442.0, 5394.0, 5517.0, 5553.0, 5597.0, 5272.0, 5301.0, 5500.0, 5641.0, 5628.0, 5351.0, 5546.0, 5685.0, 5705.0, 5655.0, 5698.0, 5481.0, 5381.0, 5699.0, 5686.0, 5704.0, 5684.0, 5348.0, 5524.0, 5393.0, 5291.0, 5670.0, 5296.0, 5308.0, 5408.0, 5418.0, 5309.0, 5502.0, 5355.0, 5416.0, 5692.0, 5335.0, 5461.0, 5316.0, 5602.0, 5719.0, 5340.0, 5440.0, 5667.0, 5384.0, 5557.0, 5293.0, 5422.0, 5469.0, 5400.0, 5260.0, 5326.0, 5436.0, 5512.0 (number of hits: 4)
9	5505.0	9	1.0	333	1	5309.0, 5617.0, 5293.0, 5545.0, 5534.0, 5597.0, 5261.0, 5674.0, 5632.0, 5332.0, 5530.0, 5703.0, 5580.0, 5595.0, 5707.0, 5697.0, 5638.0, 5412.0, 5581.0, 5449.0, 5399.0, 5277.0, 5415.0, 5619.0, 5558.0, 5414.0, 5490.0, 5359.0, 5543.0, 5450.0, 5609.0, 5579.0, 5594.0, 5255.0, 5395.0, 5272.0, 5642.0, 5273.0, 5328.0, 5461.0, 5662.0, 5621.0, 5633.0, 5549.0, 5603.0, 5254.0, 5260.0, 5455.0, 5386.0, 5612.0

						5598.0, 5652.0, 5385.0, 5280.0, 5284.0, 5551.0, 5289.0, 5688.0, 5518.0, 5469.0, 5553.0, 5704.0, 5560.0, 5656.0, 5606.0, 5497.0, 5651.0, 5712.0, 5681.0, 5556.0, 5717.0, 5302.0, 5700.0, 5460.0, 5538.0, 5438.0, 5607.0, 5420.0, 5706.0, 5265.0, 5641.0, 5334.0, 5282.0, 5470.0, 5314.0, 5263.0, 5631.0, 5503.0, 5645.0, 5478.0, 5398.0, 5505.0, 5679.0, 5539.0, 5710.0, 5670.0, 5640.0, 5370.0, 5429.0, 5691.0 (number of hits: 3)
10	5505.0	9	1.0	333	1	5463.0, 5593.0, 5350.0, 5518.0, 5471.0, 5294.0, 5446.0, 5711.0, 5426.0, 5475.0, 5678.0, 5335.0, 5611.0, 5592.0, 5679.0, 5589.0, 5591.0, 5722.0, 5390.0, 5375.0, 5499.0, 5563.0, 5608.0, 5418.0, 5676.0, 5295.0, 5583.0, 5568.0, 5647.0, 5511.0, 5721.0, 5662.0, 5429.0, 5690.0, 5403.0, 5531.0, 5629.0, 5543.0, 5260.0, 5488.0, 5673.0, 5302.0, 5566.0, 5541.0, 5376.0, 5358.0, 5527.0, 5565.0, 5363.0, 5655.0, 5715.0, 5699.0, 5632.0, 5641.0, 5649.0, 5365.0, 5704.0, 5440.0, 5486.0, 5396.0, 5724.0, 5307.0, 5360.0, 5442.0, 5671.0, 5604.0, 5660.0, 5487.0, 5480.0, 5616.0, 5613.0, 5331.0, 5310.0, 5628.0, 5332.0, 5700.0, 5391.0, 5349.0, 5567.0, 5273.0, 5333.0, 5356.0, 5308.0, 5576.0, 5470.0, 5437.0, 5528.0, 5493.0, 5492.0, 5653.0, 5255.0, 5540.0, 5312.0, 5284.0, 5517.0, 5723.0, 5512.0, 5557.0, 5658.0, 5343.0 (number of hits: 3)
11	5495.0	9	1.0	333	1	5492.0, 5295.0, 5559.0, 5637.0, 5660.0, 5648.0, 5365.0, 5711.0, 5473.0, 5547.0, 5401.0, 5506.0, 5358.0, 5278.0, 5542.0, 5449.0, 5659.0, 5673.0, 5386.0, 5566.0, 5307.0, 5423.0, 5528.0, 5392.0, 5696.0, 5383.0, 5327.0, 5599.0, 5256.0, 5305.0, 5373.0, 5410.0, 5285.0, 5657.0, 5346.0, 5503.0, 5708.0, 5268.0, 5618.0, 5480.0, 5258.0, 5418.0, 5552.0, 5385.0, 5663.0, 5536.0, 5607.0, 5420.0, 5722.0, 5463.0, 5494.0, 5266.0, 5499.0, 5377.0, 5638.0, 5355.0, 5300.0, 5682.0, 5700.0, 5554.0, 5692.0, 5693.0, 5399.0, 5508.0, 5356.0, 5649.0, 5312.0, 5538.0, 5560.0, 5333.0, 5667.0, 5342.0, 5526.0, 5464.0, 5403.0, 5340.0, 5709.0, 5469.0, 5557.0, 5375.0, 5294.0, 5262.0, 5633.0, 5443.0, 5298.0, 5691.0, 5264.0, 5350.0, 5587.0, 5580.0, 5665.0, 5523.0, 5540.0, 5589.0, 5348.0, 5581.0, 5719.0, 5363.0, 5548.0, 5446.0 (number of hits: 4)
12	5495.0	9	1.0	333	1	5304.0, 5338.0, 5344.0, 5652.0, 5607.0, 5523.0, 5284.0, 5633.0, 5670.0, 5474.0, 5610.0, 5354.0, 5478.0, 5553.0, 5300.0, 5393.0, 5616.0, 5309.0, 5396.0, 5360.0, 5544.0, 5444.0, 5348.0, 5653.0, 5450.0, 5397.0, 5608.0, 5720.0, 5415.0, 5649.0, 5543.0, 5430.0, 5567.0, 5707.0, 5549.0, 5308.0, 5314.0, 5687.0, 5433.0, 5428.0,

						5377.0, 5689.0, 5547.0, 5352.0, 5437.0, 5316.0, 5326.0, 5647.0, 5488.0, 5477.0, 5526.0, 5515.0, 5480.0, 5431.0, 5283.0, 5565.0, 5269.0, 5512.0, 5714.0, 5281.0, 5274.0, 5472.0, 5277.0, 5629.0, 5372.0, 5546.0, 5312.0, 5295.0, 5627.0, 5697.0, 5614.0, 5618.0, 5461.0, 5595.0, 5371.0, 5446.0, 5638.0, 5539.0, 5712.0, 5285.0, 5510.0, 5434.0, 5519.0, 5290.0, 5273.0, 5704.0, 5356.0, 5410.0, 5619.0, 5578.0, 5599.0, 5471.0, 5359.0, 5537.0, 5306.0, 5588.0, 5479.0, 5708.0, 5590.0, 5639.0 (number of hits: 1)
13	5495.0	9	1.0	333	1	5673.0, 5477.0, 5502.0, 5456.0, 5590.0, 5448.0, 5584.0, 5564.0, 5667.0, 5372.0, 5253.0, 5326.0, 5382.0, 5302.0, 5275.0, 5286.0, 5712.0, 5267.0, 5694.0, 5383.0, 5633.0, 5523.0, 5468.0, 5333.0, 5658.0, 5257.0, 5501.0, 5566.0, 5556.0, 5419.0, 5678.0, 5455.0, 5715.0, 5440.0, 5689.0, 5415.0, 5621.0, 5437.0, 5622.0, 5637.0, 5335.0, 5494.0, 5264.0, 5349.0, 5328.0, 5702.0, 5467.0, 5331.0, 5681.0, 5527.0, 5518.0, 5620.0, 5254.0, 5664.0, 5350.0, 5651.0, 5716.0, 5384.0, 5446.0, 5514.0, 5305.0, 5563.0, 5375.0, 5369.0, 5713.0, 5691.0, 5624.0, 5540.0, 5491.0, 5261.0, 5371.0, 5339.0, 5435.0, 5293.0, 5717.0, 5378.0, 5599.0, 5598.0, 5552.0, 5309.0, 5443.0, 5671.0, 5588.0, 5630.0, 5628.0, 5592.0, 5707.0, 5498.0, 5441.0, 5341.0, 5585.0, 5503.0, 5427.0, 5418.0, 5402.0, 5452.0, 5442.0, 5504.0, 5534.0, 5698.0 (number of hits: 6)
14	5495.0	9	1.0	333	1	5397.0, 5441.0, 5461.0, 5580.0, 5331.0, 5342.0, 5560.0, 5575.0, 5319.0, 5601.0, 5460.0, 5611.0, 5517.0, 5281.0, 5485.0, 5463.0, 5705.0, 5480.0, 5491.0, 5412.0, 5578.0, 5304.0, 5251.0, 5389.0, 5255.0, 5542.0, 5390.0, 5673.0, 5562.0, 5472.0, 5522.0, 5324.0, 5554.0, 5610.0, 5501.0, 5396.0, 5406.0, 5652.0, 5348.0, 5558.0, 5589.0, 5658.0, 5505.0, 5543.0, 5322.0, 5568.0, 5429.0, 5617.0, 5280.0, 5404.0, 5647.0, 5314.0, 5635.0, 5477.0, 5262.0, 5448.0, 5623.0, 5698.0, 5270.0, 5306.0, 5533.0, 5712.0, 5465.0, 5476.0, 5423.0, 5681.0, 5468.0, 5539.0, 5290.0, 5326.0, 5398.0, 5340.0, 5446.0, 5459.0, 5403.0, 5438.0, 5633.0, 5269.0, 5301.0, 5393.0, 5499.0, 5557.0, 5357.0, 5700.0, 5284.0, 5512.0, 5569.0, 5392.0, 5451.0, 5579.0, 5443.0, 5287.0, 5564.0, 5379.0, 5353.0, 5514.0, 5626.0, 5478.0, 5527.0, 5256.0 (number of hits: 3)
15	5495.0	9	1.0	333	1	5610.0, 5630.0, 5653.0, 5472.0, 5582.0, 5494.0, 5267.0, 5273.0, 5555.0, 5337.0, 5390.0, 5514.0, 5450.0, 5634.0, 5483.0, 5415.0, 5491.0, 5271.0, 5281.0, 5477.0, 5345.0, 5540.0, 5357.0, 5368.0, 5471.0, 5254.0, 5651.0, 5355.0, 5300.0, 5587.0,

						5454.0, 5723.0, 5650.0, 5268.0, 5313.0, 5522.0, 5590.0, 5489.0, 5274.0, 5664.0, 5681.0, 5327.0, 5348.0, 5428.0, 5615.0, 5631.0, 5710.0, 5420.0, 5687.0, 5325.0, 5589.0, 5568.0, 5692.0, 5617.0, 5333.0, 5436.0, 5460.0, 5711.0, 5371.0, 5662.0, 5479.0, 5440.0, 5550.0, 5466.0, 5387.0, 5583.0, 5303.0, 5570.0, 5264.0, 5283.0, 5652.0, 5532.0, 5465.0, 5288.0, 5578.0, 5324.0, 5574.0, 5286.0, 5445.0, 5310.0, 5395.0, 5496.0, 5669.0, 5526.0, 5393.0, 5297.0, 5252.0, 5425.0, 5439.0, 5469.0, 5282.0, 5284.0, 5331.0, 5433.0, 5498.0, 5459.0, 5394.0, 5326.0, 5647.0, 5704.0 (number of hits: 5)
16	5498.0	9	1.0	333	1	5588.0, 5683.0, 5548.0, 5539.0, 5265.0, 5340.0, 5446.0, 5524.0, 5557.0, 5452.0, 5473.0, 5716.0, 5444.0, 5392.0, 5296.0, 5553.0, 5252.0, 5612.0, 5337.0, 5582.0, 5262.0, 5585.0, 5411.0, 5409.0, 5504.0, 5610.0, 5600.0, 5704.0, 5721.0, 5676.0, 5556.0, 5652.0, 5358.0, 5393.0, 5470.0, 5579.0, 5686.0, 5648.0, 5421.0, 5505.0, 5359.0, 5267.0, 5460.0, 5464.0, 5353.0, 5405.0, 5449.0, 5693.0, 5385.0, 5448.0, 5571.0, 5312.0, 5715.0, 5565.0, 5584.0, 5595.0, 5525.0, 5629.0, 5723.0, 5375.0, 5684.0, 5698.0, 5617.0, 5330.0, 5366.0, 5495.0, 5333.0, 5507.0, 5506.0, 5503.0, 5602.0, 5653.0, 5713.0, 5455.0, 5468.0, 5635.0, 5577.0, 5261.0, 5538.0, 5325.0, 5485.0, 5594.0, 5624.0, 5558.0, 5373.0, 5494.0, 5562.0, 5609.0, 5544.0, 5327.0, 5708.0, 5306.0, 5259.0, 5461.0, 5601.0, 5428.0, 5288.0, 5374.0, 5425.0, 5581.0 (number of hits: 5)
17	5498.0	9	1.0	333	1	5365.0, 5283.0, 5485.0, 5572.0, 5549.0, 5336.0, 5652.0, 5436.0, 5375.0, 5302.0, 5306.0, 5393.0, 5550.0, 5613.0, 5503.0, 5309.0, 5463.0, 5681.0, 5297.0, 5630.0, 5595.0, 5673.0, 5479.0, 5322.0, 5418.0, 5601.0, 5278.0, 5403.0, 5693.0, 5472.0, 5644.0, 5506.0, 5277.0, 5331.0, 5328.0, 5565.0, 5360.0, 5284.0, 5642.0, 5545.0, 5486.0, 5264.0, 5656.0, 5634.0, 5312.0, 5501.0, 5359.0, 5548.0, 5647.0, 5255.0, 5674.0, 5497.0, 5707.0, 5659.0, 5301.0, 5581.0, 5398.0, 5449.0, 5254.0, 5441.0, 5631.0, 5535.0, 5691.0, 5685.0, 5372.0, 5320.0, 5586.0, 5606.0, 5456.0, 5587.0, 5706.0, 5314.0, 5715.0, 5689.0, 5296.0, 5404.0, 5678.0, 5533.0, 5583.0, 5502.0, 5454.0, 5499.0, 5667.0, 5576.0, 5593.0, 5496.0, 5515.0, 5390.0, 5710.0, 5282.0, 5467.0, 5325.0, 5653.0, 5564.0, 5540.0, 5692.0, 5478.0, 5536.0, 5500.0, 5303.0 (number of hits: 7)
18	5498.0	9	1.0	333	1	5681.0, 5636.0, 5619.0, 5364.0, 5634.0, 5506.0, 5261.0, 5266.0, 5663.0, 5508.0, 5331.0, 5711.0, 5603.0, 5334.0, 5614.0, 5379.0, 5395.0, 5543.0, 5446.0, 5360.0,

						5279.0, 5694.0, 5425.0, 5686.0, 5587.0, 5653.0, 5512.0, 5560.0, 5556.0, 5386.0, 5703.0, 5476.0, 5657.0, 5673.0, 5573.0, 5538.0, 5529.0, 5662.0, 5689.0, 5323.0, 5545.0, 5591.0, 5698.0, 5329.0, 5454.0, 5607.0, 5290.0, 5473.0, 5337.0, 5520.0, 5310.0, 5269.0, 5263.0, 5350.0, 5251.0, 5656.0, 5477.0, 5630.0, 5423.0, 5367.0, 5393.0, 5442.0, 5330.0, 5376.0, 5651.0, 5456.0, 5705.0, 5399.0, 5294.0, 5448.0, 5583.0, 5293.0, 5620.0, 5582.0, 5555.0, 5539.0, 5606.0, 5641.0, 5258.0, 5396.0, 5374.0, 5346.0, 5472.0, 5654.0, 5417.0, 5381.0, 5699.0, 5421.0, 5315.0, 5303.0, 5669.0, 5406.0, 5320.0, 5596.0, 5710.0, 5427.0, 5544.0, 5599.0, 5404.0, 5492.0 (number of hits: 1)
19	5498.0	9	1.0	333	1	5596.0, 5380.0, 5491.0, 5251.0, 5332.0, 5529.0, 5607.0, 5378.0, 5606.0, 5657.0, 5302.0, 5675.0, 5638.0, 5427.0, 5604.0, 5311.0, 5682.0, 5260.0, 5397.0, 5365.0, 5680.0, 5382.0, 5618.0, 5413.0, 5490.0, 5676.0, 5468.0, 5417.0, 5614.0, 5591.0, 5551.0, 5573.0, 5326.0, 5258.0, 5273.0, 5684.0, 5615.0, 5673.0, 5305.0, 5282.0, 5433.0, 5292.0, 5284.0, 5252.0, 5710.0, 5535.0, 5691.0, 5454.0, 5569.0, 5390.0, 5339.0, 5300.0, 5534.0, 5520.0, 5345.0, 5447.0, 5250.0, 5358.0, 5653.0, 5420.0, 5414.0, 5257.0, 5341.0, 5613.0, 5647.0, 5469.0, 5581.0, 5557.0, 5457.0, 5681.0, 5554.0, 5290.0, 5525.0, 5649.0, 5537.0, 5444.0, 5559.0, 5312.0, 5351.0, 5336.0, 5360.0, 5463.0, 5467.0, 5297.0, 5628.0, 5318.0, 5398.0, 5484.0, 5544.0, 5575.0, 5280.0, 5660.0, 5434.0, 5366.0, 5629.0, 5561.0, 5375.0, 5552.0, 5481.0, 5600.0 (number of hits: 2)
20	5498.0	9	1.0	333	1	5685.0, 5256.0, 5544.0, 5437.0, 5576.0, 5366.0, 5432.0, 5450.0, 5656.0, 5474.0, 5297.0, 5517.0, 5481.0, 5626.0, 5622.0, 5385.0, 5470.0, 5645.0, 5543.0, 5355.0, 5657.0, 5640.0, 5435.0, 5258.0, 5465.0, 5446.0, 5616.0, 5472.0, 5269.0, 5664.0, 5458.0, 5374.0, 5579.0, 5589.0, 5502.0, 5293.0, 5418.0, 5266.0, 5444.0, 5693.0, 5341.0, 5311.0, 5555.0, 5689.0, 5286.0, 5583.0, 5697.0, 5686.0, 5334.0, 5680.0, 5484.0, 5545.0, 5425.0, 5325.0, 5599.0, 5534.0, 5719.0, 5699.0, 5541.0, 5567.0, 5365.0, 5572.0, 5700.0, 5624.0, 5294.0, 5276.0, 5364.0, 5340.0, 5505.0, 5507.0, 5501.0, 5504.0, 5335.0, 5414.0, 5408.0, 5291.0, 5426.0, 5333.0, 5315.0, 5575.0, 5641.0, 5423.0, 5647.0, 5654.0, 5625.0, 5596.0, 5354.0, 5529.0, 5401.0, 5362.0, 5611.0, 5382.0, 5390.0, 5251.0, 5376.0, 5671.0, 5580.0, 5282.0, 5253.0, 5674.0 (number of hits: 4)
21	5502.0	9	1.0	333	1	5313.0, 5497.0, 5274.0, 5352.0, 5415.0, 5646.0, 5341.0, 5542.0, 5651.0, 5455.0

						5566.0, 5317.0, 5434.0, 5393.0, 5344.0, 5266.0, 5318.0, 5436.0, 5585.0, 5324.0, 5309.0, 5258.0, 5486.0, 5702.0, 5537.0, 5519.0, 5710.0, 5262.0, 5281.0, 5541.0, 5698.0, 5419.0, 5586.0, 5487.0, 5623.0, 5539.0, 5357.0, 5553.0, 5576.0, 5348.0, 5424.0, 5488.0, 5296.0, 5555.0, 5484.0, 5643.0, 5464.0, 5689.0, 5458.0, 5431.0, 5690.0, 5662.0, 5410.0, 5378.0, 5716.0, 5261.0, 5412.0, 5691.0, 5467.0, 5571.0, 5503.0, 5389.0, 5260.0, 5614.0, 5264.0, 5489.0, 5327.0, 5622.0, 5449.0, 5473.0, 5515.0, 5257.0, 5667.0, 5406.0, 5286.0, 5303.0, 5495.0, 5366.0, 5276.0, 5404.0, 5565.0, 5660.0, 5602.0, 5720.0, 5630.0, 5306.0, 5634.0, 5591.0, 5421.0, 5706.0, 5470.0, 5462.0, 5713.0, 5447.0, 5465.0, 5308.0, 5490.0, 5445.0, 5578.0, 5482.0 (number of hits: 3)
22	5502.0	9	1.0	333	1	5549.0, 5474.0, 5615.0, 5288.0, 5691.0, 5552.0, 5359.0, 5688.0, 5623.0, 5614.0, 5631.0, 5641.0, 5362.0, 5561.0, 5325.0, 5454.0, 5542.0, 5350.0, 5716.0, 5592.0, 5683.0, 5416.0, 5514.0, 5332.0, 5462.0, 5314.0, 5509.0, 5570.0, 5329.0, 5438.0, 5612.0, 5376.0, 5581.0, 5604.0, 5490.0, 5723.0, 5301.0, 5617.0, 5523.0, 5420.0, 5261.0, 5344.0, 5682.0, 5484.0, 5367.0, 5264.0, 5546.0, 5531.0, 5535.0, 5481.0, 5394.0, 5515.0, 5418.0, 5502.0, 5464.0, 5600.0, 5536.0, 5370.0, 5500.0, 5471.0, 5259.0, 5358.0, 5389.0, 5712.0, 5303.0, 5461.0, 5672.0, 5551.0, 5322.0, 5492.0, 5724.0, 5684.0, 5353.0, 5381.0, 5658.0, 5706.0, 5473.0, 5624.0, 5711.0, 5687.0, 5293.0, 5260.0, 5439.0, 5714.0, 5262.0, 5713.0, 5622.0, 5377.0, 5708.0, 5544.0, 5430.0, 5697.0, 5341.0, 5486.0, 5591.0, 5410.0, 5710.0, 5254.0, 5640.0, 5402.0 (number of hits: 3)
23	5502.0	9	1.0	333	1	5440.0, 5495.0, 5489.0, 5714.0, 5544.0, 5304.0, 5661.0, 5632.0, 5583.0, 5262.0, 5480.0, 5253.0, 5509.0, 5577.0, 5678.0, 5698.0, 5437.0, 5324.0, 5287.0, 5504.0, 5377.0, 5662.0, 5568.0, 5337.0, 5566.0, 5519.0, 5638.0, 5552.0, 5488.0, 5500.0, 5620.0, 5357.0, 5578.0, 5472.0, 5533.0, 5589.0, 5378.0, 5546.0, 5407.0, 5349.0, 5537.0, 5668.0, 5419.0, 5359.0, 5453.0, 5520.0, 5439.0, 5250.0, 5571.0, 5581.0, 5458.0, 5296.0, 5513.0, 5449.0, 5606.0, 5548.0, 5412.0, 5457.0, 5542.0, 5701.0, 5645.0, 5302.0, 5682.0, 5446.0, 5685.0, 5576.0, 5713.0, 5675.0, 5424.0, 5443.0, 5325.0, 5599.0, 5561.0, 5555.0, 5639.0, 5557.0, 5354.0, 5491.0, 5647.0, 5471.0, 5373.0, 5395.0, 5380.0, 5527.0, 5641.0, 5473.0, 5479.0, 5562.0, 5664.0, 5637.0, 5482.0, 5255.0, 5408.0, 5300.0, 5485.0, 5390.0, 5374.0, 5444.0, 5586.0, 5666.0 (number of hits: 4)

24	5502.0	9	1.0	333	1	<p>5347.0, 5444.0, 5335.0, 5442.0, 5577.0, 5482.0, 5415.0, 5700.0, 5325.0, 5561.0, 5645.0, 5651.0, 5674.0, 5632.0, 5677.0, 5336.0, 5704.0, 5486.0, 5509.0, 5296.0, 5372.0, 5268.0, 5381.0, 5576.0, 5388.0, 5436.0, 5659.0, 5332.0, 5430.0, 5546.0, 5656.0, 5684.0, 5654.0, 5666.0, 5495.0, 5485.0, 5258.0, 5404.0, 5568.0, 5532.0, 5330.0, 5354.0, 5406.0, 5481.0, 5429.0, 5367.0, 5333.0, 5689.0, 5555.0, 5443.0, 5399.0, 5518.0, 5383.0, 5709.0, 5339.0, 5690.0, 5528.0, 5496.0, 5334.0, 5273.0, 5587.0, 5641.0, 5329.0, 5454.0, 5676.0, 5310.0, 5545.0, 5348.0, 5702.0, 5445.0, 5302.0, 5451.0, 5699.0, 5353.0, 5562.0, 5320.0, 5446.0, 5377.0, 5693.0, 5278.0, 5269.0, 5611.0, 5361.0, 5574.0, 5572.0, 5287.0, 5691.0, 5560.0, 5453.0, 5591.0, 5715.0, 5670.0, 5625.0, 5371.0, 5290.0, 5531.0, 5640.0, 5605.0, 5630.0, 5448.0 (number of hits: 3)</p>
25	5502.0	9	1.0	333	1	<p>5580.0, 5682.0, 5705.0, 5448.0, 5261.0, 5506.0, 5578.0, 5612.0, 5450.0, 5676.0, 5547.0, 5553.0, 5545.0, 5257.0, 5694.0, 5678.0, 5544.0, 5287.0, 5352.0, 5322.0, 5389.0, 5557.0, 5297.0, 5704.0, 5529.0, 5720.0, 5315.0, 5417.0, 5688.0, 5430.0, 5310.0, 5420.0, 5628.0, 5460.0, 5706.0, 5362.0, 5360.0, 5520.0, 5677.0, 5644.0, 5332.0, 5476.0, 5610.0, 5425.0, 5445.0, 5655.0, 5640.0, 5378.0, 5376.0, 5709.0, 5407.0, 5410.0, 5617.0, 5702.0, 5268.0, 5307.0, 5538.0, 5500.0, 5323.0, 5492.0, 5298.0, 5724.0, 5331.0, 5713.0, 5301.0, 5687.0, 5684.0, 5707.0, 5262.0, 5611.0, 5518.0, 5447.0, 5379.0, 5340.0, 5622.0, 5695.0, 5499.0, 5319.0, 5517.0, 5368.0, 5701.0, 5504.0, 5405.0, 5380.0, 5414.0, 5505.0, 5521.0, 5278.0, 5299.0, 5453.0, 5710.0, 5267.0, 5639.0, 5670.0, 5570.0, 5592.0, 5511.0, 5272.0, 5463.0, 5653.0 (number of hits: 5)</p>
26	5507.0	9	1.0	333	1	<p>5698.0, 5642.0, 5511.0, 5469.0, 5497.0, 5263.0, 5532.0, 5424.0, 5363.0, 5442.0, 5481.0, 5568.0, 5275.0, 5373.0, 5616.0, 5396.0, 5394.0, 5378.0, 5705.0, 5668.0, 5609.0, 5282.0, 5585.0, 5590.0, 5540.0, 5487.0, 5338.0, 5444.0, 5683.0, 5512.0, 5612.0, 5689.0, 5367.0, 5619.0, 5314.0, 5492.0, 5505.0, 5572.0, 5604.0, 5393.0, 5610.0, 5287.0, 5302.0, 5468.0, 5426.0, 5484.0, 5549.0, 5279.0, 5490.0, 5702.0, 5717.0, 5685.0, 5389.0, 5329.0, 5544.0, 5478.0, 5605.0, 5503.0, 5374.0, 5508.0, 5461.0, 5328.0, 5476.0, 5652.0, 5421.0, 5552.0, 5633.0, 5339.0, 5621.0, 5643.0, 5361.0, 5627.0, 5561.0, 5639.0, 5357.0, 5587.0, 5343.0, 5591.0, 5542.0, 5311.0, 5440.0, 5624.0, 5368.0, 5419.0, 5353.0, 5546.0, 5588.0, 5486.0, 5713.0, 5457.0, 5411.0, 5691.0, 5539.0, 5455.0, 5667.0,</p>

						5513.0, 5458.0, 5496.0, 5395.0, 5582.0 (number of hits: 6)
27	5507.0	9	1.0	333	1	5288.0, 5497.0, 5453.0, 5418.0, 5255.0, 5568.0, 5670.0, 5263.0, 5492.0, 5687.0, 5436.0, 5722.0, 5431.0, 5373.0, 5562.0, 5472.0, 5481.0, 5361.0, 5343.0, 5304.0, 5681.0, 5560.0, 5484.0, 5642.0, 5410.0, 5293.0, 5570.0, 5325.0, 5648.0, 5651.0, 5709.0, 5405.0, 5332.0, 5529.0, 5665.0, 5317.0, 5493.0, 5573.0, 5320.0, 5711.0, 5567.0, 5465.0, 5714.0, 5478.0, 5251.0, 5605.0, 5449.0, 5643.0, 5365.0, 5612.0, 5677.0, 5345.0, 5503.0, 5502.0, 5516.0, 5366.0, 5583.0, 5358.0, 5462.0, 5282.0, 5706.0, 5555.0, 5691.0, 5708.0, 5553.0, 5489.0, 5517.0, 5596.0, 5272.0, 5571.0, 5636.0, 5673.0, 5565.0, 5580.0, 5296.0, 5526.0, 5508.0, 5276.0, 5667.0, 5327.0, 5637.0, 5375.0, 5305.0, 5662.0, 5641.0, 5387.0, 5668.0, 5269.0, 5652.0, 5592.0, 5333.0, 5533.0, 5495.0, 5593.0, 5694.0, 5417.0, 5546.0, 5430.0, 5499.0, 5413.0 (number of hits: 4)
28	5493.0	9	1.0	333	1	5662.0, 5444.0, 5294.0, 5720.0, 5293.0, 5266.0, 5340.0, 5711.0, 5607.0, 5509.0, 5717.0, 5349.0, 5359.0, 5704.0, 5393.0, 5550.0, 5500.0, 5579.0, 5317.0, 5458.0, 5573.0, 5502.0, 5277.0, 5253.0, 5395.0, 5425.0, 5382.0, 5518.0, 5440.0, 5655.0, 5494.0, 5677.0, 5471.0, 5581.0, 5517.0, 5724.0, 5413.0, 5587.0, 5582.0, 5539.0, 5282.0, 5538.0, 5438.0, 5285.0, 5563.0, 5362.0, 5558.0, 5346.0, 5580.0, 5694.0, 5283.0, 5329.0, 5403.0, 5548.0, 5555.0, 5705.0, 5715.0, 5660.0, 5574.0, 5311.0, 5280.0, 5564.0, 5404.0, 5683.0, 5531.0, 5600.0, 5612.0, 5510.0, 5365.0, 5407.0, 5556.0, 5429.0, 5319.0, 5519.0, 5712.0, 5261.0, 5671.0, 5417.0, 5584.0, 5399.0, 5622.0, 5491.0, 5297.0, 5505.0, 5699.0, 5257.0, 5347.0, 5419.0, 5482.0, 5625.0, 5664.0, 5516.0, 5602.0, 5673.0, 5489.0, 5450.0, 5424.0, 5368.0, 5721.0, 5656.0 (number of hits: 4)
29	5493.0	9	1.0	333	1	5664.0, 5458.0, 5255.0, 5389.0, 5613.0, 5701.0, 5606.0, 5638.0, 5683.0, 5271.0, 5346.0, 5451.0, 5559.0, 5484.0, 5263.0, 5659.0, 5617.0, 5301.0, 5291.0, 5406.0, 5379.0, 5717.0, 5504.0, 5287.0, 5266.0, 5349.0, 5398.0, 5423.0, 5627.0, 5584.0, 5481.0, 5390.0, 5686.0, 5468.0, 5359.0, 5439.0, 5662.0, 5295.0, 5668.0, 5508.0, 5325.0, 5560.0, 5303.0, 5462.0, 5517.0, 5357.0, 5306.0, 5658.0, 5319.0, 5428.0, 5672.0, 5572.0, 5708.0, 5366.0, 5564.0, 5533.0, 5330.0, 5254.0, 5350.0, 5526.0, 5329.0, 5641.0, 5605.0, 5656.0, 5289.0, 5689.0, 5490.0, 5604.0, 5637.0, 5318.0, 5441.0, 5521.0, 5415.0, 5308.0, 5274.0, 5513.0, 5294.0, 5304.0, 5574.0, 5292.0, 5270.0, 5500.0, 5630.0, 5514.0, 5653.0

						5424.0, 5312.0, 5704.0, 5666.0, 5718.0, 5404.0, 5499.0, 5282.0, 5616.0, 5337.0, 5494.0, 5380.0, 5575.0, 5675.0, 5535.0 (number of hits: 5)
30	5500.0	9	1.0	333	1	5618.0, 5535.0, 5440.0, 5718.0, 5513.0, 5606.0, 5660.0, 5511.0, 5577.0, 5538.0, 5338.0, 5710.0, 5669.0, 5352.0, 5369.0, 5486.0, 5635.0, 5509.0, 5717.0, 5716.0, 5452.0, 5261.0, 5593.0, 5657.0, 5348.0, 5373.0, 5292.0, 5554.0, 5604.0, 5559.0, 5433.0, 5384.0, 5387.0, 5301.0, 5470.0, 5443.0, 5655.0, 5453.0, 5583.0, 5408.0, 5341.0, 5391.0, 5711.0, 5504.0, 5302.0, 5693.0, 5721.0, 5704.0, 5553.0, 5698.0, 5539.0, 5609.0, 5598.0, 5287.0, 5319.0, 5300.0, 5318.0, 5589.0, 5473.0, 5448.0, 5491.0, 5648.0, 5601.0, 5331.0, 5314.0, 5362.0, 5636.0, 5309.0, 5455.0, 5344.0, 5525.0, 5270.0, 5442.0, 5371.0, 5334.0, 5493.0, 5551.0, 5332.0, 5522.0, 5317.0, 5496.0, 5389.0, 5573.0, 5632.0, 5661.0, 5264.0, 5707.0, 5562.0, 5570.0, 5428.0, 5445.0, 5380.0, 5613.0, 5615.0, 5456.0, 5368.0, 5508.0, 5398.0, 5361.0, 5282.0 (number of hits: 3)

**AP Mode
Iron Radio****5510 MHz, 40 MHz Bandwidth**

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1A/1B	30	96.7 %	60%	Pass
Type 2	30	90 %	60%	Pass
Type 3	30	80 %	60%	Pass
Type 4	30	83.3 %	60%	Pass
Aggregate (Type1 to 4)	120	87.5 %	80%	Pass
Type 5	30	100 %	80%	Pass
Type 6	30	100 %	70%	Pass

Please refer to the following statistical tables:

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

Note: Radar was generated randomly in the frequency range of 5490-5530 MHz.

Trial #	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	68	1.0	778	1
2	99	1.0	538	1
3	57	1.0	938	1
4	86	1.0	618	1
5	65	1.0	818	1
6	81	1.0	658	1
7	102	1.0	518	1
8	89	1.0	598	1
9	59	1.0	898	1
10	63	1.0	838	1
11	83	1.0	638	1
12	95	1.0	558	1
13	58	1.0	918	1
14	62	1.0	858	1
15	74	1.0	718	0
16	30	1.0	1819	1
17	19	1.0	2825	1
18	77	1.0	688	1
19	50	1.0	1069	1
20	25	1.0	2181	1
21	31	1.0	1743	1
22	19	1.0	2891	1
23	54	1.0	989	1
24	18	1.0	2977	1
25	42	1.0	1269	1
26	22	1.0	2465	1
27	23	1.0	2330	1
28	18	1.0	3011	1
29	19	1.0	2883	1
30	21	1.0	2567	1
Detection Percentage: 96.7 % (>60%)				

Table-2 Radar Type 2 Statistical Performance

Note: Radar was generated randomly in the frequency range of 5490-5530 MHz.

Trial #	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	23	3.7	191	1
2	27	4.1	230	1
3	28	3.4	219	0
4	29	3.5	164	1
5	25	2.6	226	1
6	26	1.1	211	1
7	24	3.9	225	1
8	24	2.0	156	1
9	29	2.6	226	1
10	27	2.3	154	1
11	28	1.1	209	1
12	24	1.1	165	1
13	27	4.1	191	1
14	26	1.3	215	1
15	29	3.8	199	1
16	27	5.0	192	1
17	26	1.5	227	1
18	23	3.7	218	0
19	24	2.3	206	1
20	23	4.6	193	1
21	28	2.3	202	1
22	25	1.2	158	1
23	29	4.3	200	1
24	28	1.5	186	1
25	27	4.1	165	1
26	27	1.1	193	1
27	26	3.8	173	1
28	24	3.5	223	1
29	24	4.4	183	0
30	25	4.0	191	1
Detection Percentage: 90 % (>60%)				

Table-3 Radar Type 3 Statistical Performance

Note: Radar was generated randomly in the frequency range of 5490-5530 MHz.

Trial #	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	17	6.7	271	1
2	16	7.9	453	1
3	16	7.9	316	1
4	18	7.1	247	1
5	18	9.5	399	1
6	17	9.3	463	0
7	16	9.4	330	0
8	18	6.5	213	1
9	16	7.8	365	0
10	17	9.6	390	0
11	17	9.8	354	1
12	16	8.9	314	1
13	18	7.5	299	1
14	18	6.3	323	0
15	17	7.6	278	1
16	17	10.0	234	1
17	16	8.6	204	1
18	16	7.6	286	1
19	17	8.9	495	1
20	18	9.6	418	1
21	17	10.0	417	1
22	16	7.7	287	1
23	16	8.0	252	1
24	16	8.3	223	1
25	17	8.5	209	0
26	18	9.7	346	1
27	16	8.8	236	1
28	17	6.3	327	1
29	16	7.2	216	1
30	16	9.9	440	1
Detection Percentage: 80 % (>60%)				

Table-4 Radar Type 4 Statistical Performance

Note: Radar was generated randomly in the frequency range of 5490-5530 MHz.

Trial #	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	13	19.8	216	1
2	13	11.6	483	1
3	16	11.6	439	1
4	12	14.3	398	1
5	15	12.1	348	1
6	15	18.5	369	1
7	13	12.1	365	0
8	14	13.7	440	1
9	16	16.9	297	1
10	16	17.3	417	1
11	13	11.9	250	1
12	14	15.4	406	0
13	14	12.6	248	1
14	14	11.7	336	1
15	14	11.4	390	1
16	15	14.8	435	1
17	16	18.5	292	1
18	13	12.4	224	1
19	13	13.9	500	1
20	15	12.7	306	1
21	15	11.7	393	1
22	16	16.0	250	0
23	13	17.8	321	1
24	15	17.5	253	1
25	15	14.5	221	1
26	14	14.3	443	1
27	13	15.3	452	1
28	13	19.8	342	0
29	14	15.2	238	0
30	12	12.6	326	1
Detection Percentage: 83.3 % (>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	5498.0	1
12	5498.4	1
13	5500.0	1
14	5498.0	1
15	5495.2	1
16	5495.6	1
17	5498.4	1
18	5498.4	1
19	5495.6	1
20	5495.6	1
21	5520.4	1
22	5524.4	1
23	5522.4	1
24	5520.8	1
25	5520.8	1
26	5520.4	1
27	5521.6	1
28	5524.8	1
29	5522.8	1
30	5521.2	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	51.7	1386		0.529423	1
1	3	9	65.3	1537	1306	1.017985	
2	1	9	98.7			2.037857	
3	1	9	88.4			2.675002	
4	1	9	89.3			3.759663	
5	1	9	88.7			4.647745	
6	2	9	97.3	1547		5.271808	
7	2	9	90.4	1584		6.297370	
8	2	9	50.3	1730		7.385708	
9	2	9	55.4	1114		8.539208	
10	1	9	74.1			9.424171	
11	2	9	50.8	1562		9.670494	
12	2	9	81.9	1241		10.950527	
13	3	9	55.6	1124	1246	11.232969	

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	5	72.4	1098		0.782572	1
1	3	5	88.0	1163	1298	1.498280	
2	2	5	85.6	1416		2.572013	
3	1	5	74.4			3.852202	
4	1	5	62.9			4.399656	
5	2	5	86.3	1059		5.247096	
6	1	5	91.1			6.178096	
7	1	5	62.3			7.514011	
8	2	5	60.6	1359		8.921861	
9	2	5	91.8	1598		9.464766	
10	2	5	65.8	1784		10.512375	
11	2	5	74.8	1217		11.705329	

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	84.7	1145		0.083696	1
1	2	10	89.9	1466		1.193851	
2	2	10	60.3	1098		2.039835	
3	1	10	55.4			2.826252	
4	3	10	50.9	1767	1225	3.251487	
5	2	10	93.1	1363		4.115956	
6	2	10	72.8	1863		4.927685	
7	3	10	90.0	1257	1567	6.222252	
8	2	10	73.6	1163		6.442644	
9	2	10	57.9	1135		7.959659	
10	2	10	67.4	1063		8.770109	
11	2	10	52.7	1095		9.228394	
12	3	10	52.8	1005	1569	9.797110	
13	2	10	67.6	1092		10.460597	
14	3	10	62.9	1050	1736	11.934285	

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	16	80.3	1790		0.474448	1
1	2	16	92.2	1720		1.155472	
2	2	16	74.2	1031		1.906646	
3	2	16	62.9	1064		2.697281	
4	1	16	84.1			3.746633	
5	2	16	97.7	1659		4.409209	
6	3	16	55.1	1216	1405	5.018844	
7	3	16	70.8	1588	1480	5.658699	
8	2	16	53.4	1268		6.400760	
9	2	16	99.8	1177		7.995180	
10	2	16	51.3	1744		8.545513	
11	3	16	76.7	1708	1006	9.537686	
12	2	16	59.0	1352		9.936211	
13	3	16	70.1	1109	1052	10.646691	
14	1	16	66.6			11.743906	

Bin5 Statistics 5

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	13	79.4	1126	1881	0.470322	1
1	3	13	89.3	1503	1103	1.259729	
2	2	13	52.9	1828		1.529783	
3	3	13	68.8	1521	1834	2.285647	
4	2	13	56.0	1497		3.060532	
5	2	13	70.9	1467		4.035341	
6	2	13	75.6	1826		4.825224	
7	1	13	52.0			5.918207	
8	2	13	98.4	1988		6.342983	
9	1	13	76.6			7.275532	
10	2	13	64.2	1448		7.557889	
11	1	13	81.9			8.705874	
12	3	13	87.9	1677	1851	9.212384	
13	3	13	89.0	1649	1010	10.125022	
14	3	13	51.7	1011	1595	10.546146	
15	3	13	82.0	1745	1432	11.902986	

Bin5 Statistics 6

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	11	80.0			0.068980	1
1	2	11	54.6	1498		0.869323	
2	3	11	84.2	1204	1653	1.978960	
3	2	11	89.7	1640		2.488772	
4	2	11	71.9	1686		2.971902	
5	1	11	82.8			3.563947	
6	1	11	63.2			4.300276	
7	1	11	97.5			4.991650	
8	3	11	89.4	1766	1817	6.135248	
9	2	11	93.3	1703		6.454412	
10	3	11	54.7	1523	1065	7.194851	
11	1	11	86.0			8.450290	
12	2	11	68.5	1951		8.962497	
13	2	11	63.1	1893		9.685622	
14	3	11	94.4	1205	1243	9.972703	
15	2	11	99.4	1219		10.799281	
16	2	11	72.0	1575		11.597676	

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	6	65.7			0.368148	1
1	3	6	78.7	1766	1609	0.677618	
2	2	6	53.5	1868		1.832802	
3	2	6	89.3	1201		2.137827	
4	2	6	69.1	1509		2.929703	
5	1	6	87.1			3.746200	
6	2	6	87.6	1150		4.645037	
7	2	6	92.8	1712		5.302225	
8	2	6	56.2	1212		5.785142	
9	3	6	89.2	1621	1847	6.374857	
10	3	6	75.6	1512	1259	7.282157	
11	2	6	92.7	1523		7.352116	
12	1	6	74.2			8.146879	
13	2	6	56.9	1509		9.260424	
14	2	6	66.9	1523		9.679233	
15	1	6	63.1			10.475074	
16	1	6	94.2			11.071287	
17	2	6	73.0	1916		11.673579	

Bin5 Statistics 8

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	7	93.7	1750		0.322541	1
1	3	7	89.0	1984	1196	0.926446	
2	1	7	57.0			2.368994	
3	2	7	79.7	1934		2.562371	
4	3	7	66.3	1260	1280	3.687086	
5	2	7	94.1	1103		4.623298	
6	2	7	53.3	1117		5.350205	
7	2	7	50.1	1760		5.718013	
8	1	7	90.6			7.157069	
9	1	7	70.0			7.348828	
10	2	7	64.5	1046		8.191449	
11	1	7	71.5			9.489909	
12	1	7	75.6			9.895119	
13	2	7	93.4	1921		10.407062	
14	3	7	87.0	1939	1295	11.582774	

Bin5 Statistics 9

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	15	90.2	1021	1461	1.180756	1
1	2	15	80.0	1933		1.829662	
2	2	15	89.9	1911		3.380681	
3	2	15	61.9	1494		3.609022	
4	1	15	73.6			5.339768	
5	3	15	93.5	1287	1479	6.590539	
6	2	15	82.2	1832		7.329049	
7	3	15	75.4	1902	1669	9.295888	
8	3	15	81.7	1421	1347	10.334836	
9	3	15	85.8	1400	1671	11.136026	

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	83.3	1934		1.265013	1
1	1	8	85.9			2.049492	
2	1	8	84.0			3.788709	
3	3	8	51.6	1676	1498	4.897044	
4	3	8	79.1	1522	1399	6.652542	
5	3	8	66.1	1439	1027	7.918455	
6	1	8	68.4			8.644626	
7	3	8	57.1	1488	1763	10.229474	
8	2	8	66.9	1443		11.604953	

Bin5 Statistics 11

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	15	80.0	1344	1607	0.569313	1
1	2	15	81.7	1702		0.752472	
2	3	15	93.0	1305	1420	1.692123	
3	2	15	85.2	1121		2.231766	
4	3	15	79.1	1914	1301	3.080914	
5	1	15	78.6			3.240438	
6	1	15	63.5			3.896622	
7	2	15	87.7	1709		4.743985	
8	1	15	52.0			5.100188	
9	1	15	73.9			6.286239	
10	3	15	90.5	1873	1672	6.316987	
11	1	15	66.0			7.464463	
12	3	15	53.9	1297	1576	7.994644	
13	2	15	92.6	1295		8.310319	
14	2	15	65.3	1531		9.239443	
15	3	15	78.9	1138	1420	9.923881	
16	3	15	88.0	1494	1482	10.272619	
17	2	15	98.2	1056		11.052136	
18	1	15	78.6			11.584164	

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	16	69.0	1258		0.422603	1
1	2	16	86.1	1430		0.968649	
2	2	16	83.6	1593		1.745448	
3	2	16	65.3	1708		2.169112	
4	1	16	72.4			3.377642	
5	1	16	59.2			4.165004	
6	2	16	64.9	1548		4.253617	
7	1	16	80.0			5.592200	
8	2	16	92.0	1621		5.934980	
9	2	16	73.3	1436		6.958135	
10	1	16	83.2			7.563738	
11	2	16	73.3	1921		8.043404	
12	1	16	84.2			8.871867	
13	2	16	82.2	1988		9.692780	
14	3	16	52.9	1076	1017	10.519221	
15	1	16	69.1			11.112917	
16	1	16	84.2			11.764190	

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	20	62.4	1441		0.990717	1
1	2	20	50.1	1018		1.764187	
2	2	20	96.9	1471		3.721887	
3	1	20	53.8			4.541148	
4	3	20	84.7	1453	1087	6.355888	
5	2	20	68.3	1279		8.286424	
6	1	20	60.6			9.949261	
7	1	20	96.6			11.130575	

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	93.3	1840		0.397041	1
1	1	15	68.9			0.751657	
2	2	15	68.4	1533		1.663104	
3	2	15	75.0	1646		1.818242	
4	3	15	88.2	1835	1768	2.585511	
5	2	15	90.5	1416		3.261676	
6	3	15	87.6	1440	1807	3.744714	
7	3	15	60.4	1928	1853	4.433792	
8	3	15	64.4	1012	1274	4.877330	
9	3	15	92.6	1101	1893	5.786162	
10	2	15	65.0	1146		6.047275	
11	1	15	52.9			6.691057	
12	2	15	53.1	1975		7.381109	
13	2	15	90.6	1053		8.191910	
14	2	15	82.4	1656		8.633535	
15	2	15	55.6	1757		9.170083	
16	2	15	98.8	1471		9.646619	
17	3	15	85.1	1272	1581	10.594009	
18	2	15	74.9	1930		10.819387	
19	3	15	79.6	1995	1136	11.762682	

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	8	60.9	1634		0.092959	1
1	1	8	84.0			2.136025	
2	3	8	83.7	1404	1517	3.180037	
3	3	8	67.0	1134	1332	3.593976	
4	1	8	67.2			5.013633	
5	2	8	90.0	1899		6.352825	
6	2	8	62.7	1371		6.916606	
7	3	8	98.8	1628	1567	8.173586	
8	1	8	98.6			9.323801	
9	1	8	97.6			10.333093	
10	1	8	70.2			11.733077	

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	3	9	99.4	1908	1873	0.807044	1
1	3	9	97.0	1501	1699	1.107628	
2	3	9	53.6	1689	1199	2.234070	
3	3	9	80.3	1436	1356	3.065120	
4	1	9	85.4			4.961615	
5	2	9	56.3	1842		5.808210	
6	1	9	90.5			6.982134	
7	2	9	73.1	1409		7.107061	
8	1	9	93.4			8.888537	
9	2	9	91.0	1179		9.359350	
10	1	9	88.0			10.995227	
11	2	9	59.6	1908		11.731550	

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	16	65.0	1376		0.713135	1
1	1	16	86.3			1.840285	
2	2	16	91.1	1312		2.708175	
3	1	16	69.9			3.539823	
4	2	16	67.1	1284		4.287820	
5	1	16	89.8			5.440188	
6	2	16	78.4	1210		6.280347	
7	3	16	80.2	1519	1316	7.219287	
8	2	16	94.8	1260		7.535544	
9	1	16	79.2			8.562343	
10	2	16	97.9	1783		9.430222	
11	3	16	81.6	1048	1073	10.740909	
12	3	16	60.0	1618	1091	11.630592	

Bin5 Statistics 18

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	16	78.7	1142	1366	0.045787	1
1	2	16	70.8	1250		1.226017	
2	1	16	75.7			1.798322	
3	3	16	89.7	1173	1123	2.893051	
4	2	16	86.7	1490		3.937527	
5	3	16	81.1	1483	1343	4.704517	
6	1	16	57.3			5.707502	
7	1	16	98.5			6.229734	
8	3	16	70.5	1551	1380	7.409086	
9	2	16	80.5	1017		8.447217	
10	2	16	82.0	1215		9.392625	
11	3	16	53.2	1690	1952	9.574544	
12	1	16	65.3			10.514669	
13	2	16	58.8	1540		11.503037	

Bin5 Statistics 19

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	9	90.1	1235		0.047656	1
1	1	9	69.1			1.650221	
2	3	9	56.0	1178	1983	2.941221	
3	2	9	66.7	1772		3.604715	
4	3	9	95.4	1968	1690	4.821896	
5	3	9	88.1	1287	1917	5.804020	
6	3	9	80.1	1961	1088	7.363737	
7	2	9	83.1	1859		8.468887	
8	1	9	53.8			9.076494	
9	1	9	97.3			10.409567	
10	2	9	82.0	1756		11.810452	

Bin5 Statistics 20

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	9	82.6	1819		0.041199	1
1	2	9	96.8	1284		0.839137	
2	2	9	96.4	1513		1.564204	
3	1	9	72.9			2.695530	
4	2	9	79.8	1965		3.090485	
5	1	9	54.6			3.590748	
6	1	9	59.4			4.878205	
7	3	9	93.2	1785	1165	5.367588	
8	2	9	53.0	1122		5.726414	
9	2	9	56.1	1267		6.889052	
10	2	9	51.4	1996		7.176314	
11	3	9	93.3	1428	1516	8.174683	
12	1	9	98.2			8.913778	
13	3	9	52.5	1971	1094	9.675001	
14	3	9	99.9	1933	1209	10.105801	
15	2	9	66.5	1040		11.235812	
16	1	9	70.8			11.983157	

Bin5 Statistics 21

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	19	64.3	1262		0.778614	1
1	2	19	88.2	1957		1.559295	
2	1	19	84.3			2.056591	
3	2	19	61.5	1024		2.883197	
4	3	19	54.6	1799	1596	3.816300	
5	1	19	99.9			4.208984	
6	2	19	87.3	1817		5.468538	
7	3	19	81.1	1729	1585	5.646368	
8	2	19	91.6	1863		6.562012	
9	2	19	74.5	1668		7.517020	
10	2	19	55.3	1117		8.691988	
11	1	19	86.9			8.828562	
12	3	19	92.0	1647	1492	9.639028	
13	3	19	85.5	1561	1621	11.124830	
14	2	19	53.9	1933		11.279935	

Bin5 Statistics 22

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	9	54.0	1122		0.566402	1
1	3	9	50.1	1787	1192	0.928293	
2	1	9	96.1			2.223623	
3	1	9	94.3			2.770143	
4	2	9	89.3	1835		4.042042	
5	1	9	91.1			4.953032	
6	2	9	70.1	1904		5.735336	
7	2	9	60.1	1291		7.235664	
8	2	9	93.2	1977		7.863634	
9	3	9	85.3	1436	1279	8.786327	
10	3	9	84.3	1826	1506	10.083536	
11	3	9	72.0	1307	1251	10.378796	
12	2	9	59.7	1117		11.935635	

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	14	70.1	1767		0.333059	1
1	3	14	87.7	1663	1590	0.698838	
2	2	14	93.0	1372		1.760702	
3	2	14	88.4	1828		2.190078	
4	2	14	64.7	1313		2.941435	
5	1	14	65.9			3.690397	
6	2	14	71.4	1508		4.646573	
7	3	14	76.5	1577	1481	4.865096	
8	1	14	86.5			5.814007	
9	3	14	51.4	1703	1033	6.377758	
10	1	14	68.1			6.915778	
11	1	14	66.9			7.672990	
12	3	14	75.2	1552	1933	8.258090	
13	2	14	83.6	1162		8.871108	
14	2	14	87.8	1811		9.934955	
15	3	14	81.4	1067	1616	10.178075	
16	2	14	68.8	1050		10.962082	
17	3	14	94.4	1341	1795	11.755991	

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	18	51.6	1183		0.131431	1
1	3	18	50.1	1932	1616	1.261317	
2	2	18	95.3	1399		2.816490	
3	1	18	86.2			3.261739	
4	3	18	97.9	1632	1436	4.145555	
5	2	18	90.7	1372		5.500132	
6	3	18	62.1	1266	1929	6.456043	
7	1	18	71.9			7.817947	
8	2	18	84.9	1996		8.885459	
9	3	18	82.8	1331	1812	9.790632	
10	3	18	61.2	1060	1988	10.798759	
11	2	18	72.7	1978		11.717562	

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	18	73.6	1530		0.585822	1
1	2	18	52.4	1596		0.788347	
2	1	18	86.1			1.277844	
3	3	18	99.4	1223	1255	2.262751	
4	3	18	60.1	1411	1649	2.693986	
5	1	18	94.6			3.295646	
6	2	18	51.5	1303		4.226120	
7	3	18	77.2	1914	1811	5.037583	
8	2	18	90.7	1747		5.102438	
9	2	18	62.4	1307		6.142160	
10	3	18	77.4	1555	1907	6.446801	
11	1	18	92.2			7.035829	
12	2	18	54.0	1148		7.891571	
13	2	18	96.3	1522		8.732669	
14	2	18	96.0	1173		9.362369	
15	1	18	69.0			9.557724	
16	1	18	60.0			10.429246	
17	1	18	81.1			11.233495	
18	3	18	81.5	1978	1716	11.458446	

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	19	64.0	1164	1452	0.759401	1
1	2	19	76.0	1214		0.945850	
2	1	19	85.7			1.905815	
3	3	19	99.9	1730	1148	2.834140	
4	3	19	90.2	1165	1521	3.707768	
5	2	19	97.1	1866		4.636300	
6	1	19	66.8			5.580201	
7	2	19	50.2	1952		6.129513	
8	2	19	93.3	1244		6.915838	
9	2	19	70.2	1275		7.560617	
10	2	19	94.9	1097		8.662626	
11	2	19	57.0	1674		9.377824	
12	2	19	94.8	1964		9.967728	
13	2	19	93.2	1536		10.868744	
14	2	19	88.4	1052		11.615270	

Bin5 Statistics 27

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	16	74.7			0.540867	1
1	1	16	68.1			1.521179	
2	2	16	84.1	1437		2.233163	
3	2	16	91.3	1233		2.987595	
4	2	16	90.5	1702		4.054298	
5	1	16	53.8			4.825593	
6	1	16	89.3			5.287975	
7	2	16	85.1	1036		6.796854	
8	2	16	88.6	1241		7.420785	
9	2	16	91.5	1198		8.298562	
10	1	16	58.9			8.994286	
11	3	16	94.9	1500	1320	9.879100	
12	3	16	65.3	1667	1658	10.406933	
13	2	16	94.5	1203		11.272470	

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	8	85.5			0.214348	1
1	1	8	69.5			1.040263	
2	3	8	91.5	1442	1397	1.662719	
3	1	8	55.5			2.539931	
4	3	8	53.1	1962	1935	3.058271	
5	2	8	69.6	1908		3.706616	
6	2	8	74.6	2000		4.186977	
7	2	8	82.2	1476		4.775418	
8	2	8	57.9	1934		5.349612	
9	2	8	67.3	1530		6.238180	
10	3	8	55.8	1565	1504	6.672592	
11	1	8	50.5			7.695200	
12	2	8	97.6	1134		8.167292	
13	1	8	66.0			9.068881	
14	1	8	77.8			9.948557	
15	2	8	58.2	1299		10.322008	
16	2	8	95.4	1956		10.798562	
17	1	8	65.0			11.848097	

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	13	56.3	1834		0.817679	1
1	1	13	87.8			1.773447	
2	2	13	58.3	1351		2.974911	
3	2	13	87.8	1042		3.327092	
4	2	13	85.3	1877		4.396073	
5	1	13	83.6			5.488809	
6	3	13	58.8	1404	1861	6.426460	
7	2	13	84.3	1381		7.842707	
8	3	13	83.9	1770	1772	8.717687	
9	2	13	67.3	1800		9.786515	
10	2	13	57.8	1239		10.075660	
11	3	13	66.6	1203	1952	11.046382	

Bin5 Statistics 30

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	17	81.4	1885		0.528976	1
1	2	17	82.4	1090		0.678793	
2	2	17	59.3	1180		1.333473	
3	2	17	97.7	1596		2.362159	
4	2	17	58.2	1014		3.289699	
5	2	17	69.2	1425		3.663632	
6	1	17	66.8			4.347472	
7	1	17	94.1			5.180213	
8	1	17	84.8			5.539747	
9	3	17	83.9	1938	1296	6.160026	
10	1	17	71.7			7.146014	
11	1	17	77.2			7.509703	
12	1	17	73.6			8.080934	
13	1	17	81.7			9.054456	
14	2	17	89.5	1291		9.484904	
15	3	17	62.0	1233	1595	10.328335	
16	2	17	99.4	1973		11.224464	
17	2	17	82.5	1284		11.682323	

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	5510.0	9	1.0	333	1	5656.0, 5600.0, 5639.0, 5660.0, 5282.0, 5556.0, 5617.0, 5446.0, 5545.0, 5499.0, 5522.0, 5537.0, 5667.0, 5655.0, 5464.0, 5253.0, 5700.0, 5391.0, 5687.0, 5654.0, 5344.0, 5578.0, 5363.0, 5316.0, 5612.0, 5349.0, 5472.0, 5408.0, 5458.0, 5303.0, 5504.0, 5536.0, 5514.0, 5463.0, 5289.0, 5277.0, 5642.0, 5423.0, 5343.0, 5441.0, 5665.0, 5404.0, 5575.0, 5360.0, 5495.0, 5695.0, 5332.0, 5430.0, 5258.0, 5684.0, 5616.0, 5679.0, 5449.0, 5710.0, 5631.0, 5374.0, 5638.0, 5528.0, 5469.0, 5328.0, 5347.0, 5451.0, 5520.0, 5652.0, 5715.0, 5688.0, 5465.0, 5563.0, 5263.0, 5353.0, 5461.0, 5274.0, 5418.0, 5576.0, 5561.0, 5675.0, 5648.0, 5420.0, 5546.0, 5686.0, 5572.0, 5704.0, 5569.0, 5310.0, 5543.0, 5707.0, 5586.0, 5485.0, 5251.0, 5614.0, 5588.0, 5306.0, 5636.0, 5603.0, 5368.0, 5301.0, 5417.0, 5596.0, 5721.0, 5500.0 (number of hits: 7)
2	5510.0	9	1.0	333	1	5543.0, 5576.0, 5588.0, 5294.0, 5390.0, 5499.0, 5311.0, 5377.0, 5646.0, 5410.0, 5346.0, 5460.0, 5581.0, 5580.0, 5364.0, 5395.0, 5313.0, 5661.0, 5471.0, 5707.0, 5283.0, 5384.0, 5682.0, 5519.0, 5366.0, 5505.0, 5380.0, 5521.0, 5281.0, 5606.0, 5398.0, 5287.0, 5574.0, 5273.0, 5442.0, 5383.0, 5597.0, 5554.0, 5412.0, 5628.0, 5489.0, 5544.0, 5360.0, 5409.0, 5478.0, 5700.0, 5673.0, 5466.0, 5455.0, 5526.0, 5534.0, 5284.0, 5448.0, 5512.0, 5579.0, 5642.0, 5611.0, 5343.0, 5347.0, 5598.0, 5491.0, 5464.0, 5555.0, 5451.0, 5657.0, 5422.0, 5715.0, 5647.0, 5306.0, 5567.0, 5333.0, 5291.0, 5692.0, 5495.0, 5411.0, 5423.0, 5573.0, 5362.0, 5501.0, 5419.0, 5444.0, 5621.0, 5272.0, 5717.0, 5556.0, 5323.0, 5483.0, 5305.0, 5649.0, 5690.0, 5486.0, 5650.0, 5503.0, 5714.0, 5688.0, 5720.0, 5496.0, 5389.0, 5397.0, 5694.0 (number of hits: 10)
3	5510.0	9	1.0	333	1	5611.0, 5340.0, 5647.0, 5673.0, 5256.0, 5276.0, 5494.0, 5544.0, 5566.0, 5480.0, 5599.0, 5341.0, 5358.0, 5530.0, 5372.0, 5437.0, 5377.0, 5382.0, 5607.0, 5462.0, 5658.0, 5365.0, 5353.0, 5629.0, 5500.0, 5627.0, 5484.0, 5278.0, 5620.0, 5517.0, 5435.0, 5642.0, 5292.0, 5635.0, 5720.0, 5417.0, 5404.0, 5577.0, 5438.0, 5373.0, 5561.0, 5528.0, 5398.0, 5667.0, 5669.0, 5306.0, 5679.0, 5354.0, 5445.0, 5547.0, 5676.0, 5367.0, 5305.0, 5421.0, 5636.0, 5261.0, 5401.0, 5279.0, 5693.0, 5515.0, 5479.0, 5345.0, 5267.0, 5350.0, 5428.0

						5468.0, 5571.0, 5495.0, 5326.0, 5518.0, 5259.0, 5302.0, 5520.0, 5271.0, 5522.0, 5400.0, 5307.0, 5537.0, 5483.0, 5604.0, 5284.0, 5696.0, 5600.0, 5534.0, 5511.0, 5352.0, 5549.0, 5529.0, 5273.0, 5656.0, 5300.0, 5574.0, 5329.0, 5660.0, 5331.0, 5461.0, 5542.0, 5254.0, 5409.0, 5419.0 (number of hits: 9)
4	5510.0	9	1.0	333	1	5663.0, 5617.0, 5334.0, 5468.0, 5356.0, 5549.0, 5554.0, 5291.0, 5495.0, 5622.0, 5657.0, 5658.0, 5277.0, 5688.0, 5464.0, 5294.0, 5545.0, 5566.0, 5381.0, 5588.0, 5279.0, 5519.0, 5433.0, 5367.0, 5581.0, 5251.0, 5517.0, 5591.0, 5431.0, 5522.0, 5288.0, 5491.0, 5299.0, 5421.0, 5406.0, 5569.0, 5297.0, 5446.0, 5379.0, 5697.0, 5393.0, 5568.0, 5355.0, 5341.0, 5463.0, 5397.0, 5593.0, 5408.0, 5437.0, 5625.0, 5391.0, 5474.0, 5680.0, 5465.0, 5458.0, 5650.0, 5366.0, 5594.0, 5694.0, 5496.0, 5368.0, 5514.0, 5595.0, 5572.0, 5637.0, 5642.0, 5698.0, 5682.0, 5434.0, 5401.0, 5389.0, 5345.0, 5574.0, 5484.0, 5632.0, 5259.0, 5599.0, 5373.0, 5610.0, 5681.0, 5340.0, 5390.0, 5302.0, 5619.0, 5608.0, 5428.0, 5267.0, 5589.0, 5605.0, 5380.0, 5315.0, 5375.0, 5661.0, 5516.0, 5359.0, 5454.0, 5326.0, 5275.0, 5456.0, 5476.0 (number of hits: 7)
5	5510.0	9	1.0	333	1	5347.0, 5565.0, 5566.0, 5428.0, 5485.0, 5699.0, 5360.0, 5304.0, 5397.0, 5438.0, 5420.0, 5622.0, 5578.0, 5380.0, 5541.0, 5406.0, 5681.0, 5447.0, 5549.0, 5353.0, 5340.0, 5459.0, 5298.0, 5548.0, 5573.0, 5563.0, 5535.0, 5350.0, 5479.0, 5467.0, 5338.0, 5364.0, 5644.0, 5267.0, 5437.0, 5316.0, 5309.0, 5343.0, 5620.0, 5328.0, 5637.0, 5543.0, 5670.0, 5691.0, 5567.0, 5259.0, 5662.0, 5288.0, 5664.0, 5724.0, 5255.0, 5540.0, 5723.0, 5671.0, 5680.0, 5584.0, 5393.0, 5361.0, 5478.0, 5601.0, 5518.0, 5684.0, 5626.0, 5595.0, 5617.0, 5500.0, 5510.0, 5268.0, 5621.0, 5653.0, 5444.0, 5299.0, 5672.0, 5532.0, 5251.0, 5280.0, 5582.0, 5716.0, 5279.0, 5453.0, 5559.0, 5702.0, 5386.0, 5379.0, 5307.0, 5318.0, 5378.0, 5480.0, 5320.0, 5429.0, 5476.0, 5561.0, 5301.0, 5611.0, 5607.0, 5454.0, 5339.0, 5336.0, 5469.0, 5419.0 (number of hits: 3)
6	5510.0	9	1.0	333	1	5702.0, 5660.0, 5635.0, 5607.0, 5692.0, 5721.0, 5398.0, 5707.0, 5643.0, 5447.0, 5268.0, 5722.0, 5685.0, 5563.0, 5586.0, 5465.0, 5612.0, 5717.0, 5429.0, 5337.0, 5363.0, 5542.0, 5340.0, 5663.0, 5544.0, 5613.0, 5531.0, 5277.0, 5497.0, 5495.0, 5460.0, 5344.0, 5426.0, 5597.0, 5557.0, 5440.0, 5466.0, 5472.0, 5594.0, 5427.0, 5469.0, 5541.0, 5341.0, 5260.0, 5386.0, 5625.0, 5718.0, 5456.0, 5624.0, 5696.0, 5461.0, 5438.0, 5401.0, 5537.0, 5548.0

						5511.0, 5622.0, 5604.0, 5371.0, 5463.0, 5382.0, 5436.0, 5562.0, 5598.0, 5283.0, 5255.0, 5650.0, 5553.0, 5310.0, 5662.0, 5633.0, 5566.0, 5520.0, 5443.0, 5488.0, 5272.0, 5480.0, 5250.0, 5364.0, 5412.0, 5280.0, 5690.0, 5477.0, 5571.0, 5370.0, 5424.0, 5509.0, 5705.0, 5270.0, 5656.0, 5303.0, 5261.0, 5479.0, 5274.0, 5273.0, 5503.0, 5724.0, 5294.0, 5591.0, 5334.0 (number of hits: 6)
7	5510.0	9	1.0	333	1	5537.0, 5288.0, 5363.0, 5572.0, 5562.0, 5573.0, 5381.0, 5395.0, 5665.0, 5305.0, 5568.0, 5600.0, 5486.0, 5522.0, 5371.0, 5263.0, 5399.0, 5713.0, 5664.0, 5253.0, 5409.0, 5495.0, 5561.0, 5492.0, 5636.0, 5627.0, 5647.0, 5529.0, 5469.0, 5677.0, 5342.0, 5465.0, 5358.0, 5633.0, 5414.0, 5480.0, 5432.0, 5623.0, 5714.0, 5281.0, 5579.0, 5504.0, 5479.0, 5694.0, 5330.0, 5356.0, 5652.0, 5718.0, 5364.0, 5637.0, 5708.0, 5692.0, 5601.0, 5493.0, 5551.0, 5466.0, 5322.0, 5712.0, 5412.0, 5338.0, 5689.0, 5407.0, 5682.0, 5347.0, 5514.0, 5710.0, 5656.0, 5472.0, 5388.0, 5280.0, 5544.0, 5511.0, 5605.0, 5443.0, 5574.0, 5666.0, 5321.0, 5646.0, 5348.0, 5474.0, 5267.0, 5294.0, 5468.0, 5609.0, 5519.0, 5293.0, 5349.0, 5723.0, 5446.0, 5688.0, 5437.0, 5438.0, 5700.0, 5396.0, 5463.0, 5651.0, 5698.0, 5473.0, 5686.0, 5661.0 (number of hits: 8)
8	5510.0	9	1.0	333	1	5666.0, 5695.0, 5624.0, 5631.0, 5503.0, 5720.0, 5519.0, 5665.0, 5595.0, 5420.0, 5448.0, 5469.0, 5421.0, 5491.0, 5259.0, 5488.0, 5275.0, 5341.0, 5436.0, 5340.0, 5338.0, 5350.0, 5708.0, 5575.0, 5277.0, 5460.0, 5550.0, 5656.0, 5462.0, 5532.0, 5373.0, 5594.0, 5252.0, 5437.0, 5598.0, 5528.0, 5392.0, 5327.0, 5515.0, 5444.0, 5527.0, 5539.0, 5339.0, 5440.0, 5468.0, 5672.0, 5349.0, 5705.0, 5487.0, 5273.0, 5696.0, 5517.0, 5406.0, 5716.0, 5701.0, 5383.0, 5699.0, 5667.0, 5710.0, 5320.0, 5254.0, 5300.0, 5351.0, 5641.0, 5281.0, 5333.0, 5498.0, 5400.0, 5685.0, 5472.0, 5477.0, 5688.0, 5396.0, 5347.0, 5363.0, 5431.0, 5395.0, 5329.0, 5415.0, 5250.0, 5463.0, 5643.0, 5413.0, 5345.0, 5426.0, 5679.0, 5465.0, 5499.0, 5576.0, 5489.0, 5522.0, 5266.0, 5458.0, 5461.0, 5544.0, 5370.0, 5326.0, 5387.0, 5302.0, 5563.0 (number of hits: 8)
9	5515.0	9	1.0	333	1	5678.0, 5545.0, 5362.0, 5262.0, 5697.0, 5709.0, 5363.0, 5444.0, 5534.0, 5549.0, 5452.0, 5513.0, 5314.0, 5293.0, 5378.0, 5466.0, 5583.0, 5580.0, 5710.0, 5411.0, 5464.0, 5546.0, 5494.0, 5474.0, 5619.0, 5666.0, 5477.0, 5535.0, 5301.0, 5715.0, 5676.0, 5383.0, 5277.0, 5394.0, 5413.0, 5547.0, 5623.0, 5514.0, 5311.0, 5295.0, 5705.0, 5438.0, 5251.0, 5471.0, 5624.0

						5443.0, 5457.0, 5531.0, 5639.0, 5641.0, 5600.0, 5287.0, 5652.0, 5493.0, 5630.0, 5607.0, 5375.0, 5320.0, 5350.0, 5687.0, 5575.0, 5562.0, 5647.0, 5356.0, 5541.0, 5659.0, 5495.0, 5548.0, 5476.0, 5550.0, 5584.0, 5259.0, 5328.0, 5256.0, 5499.0, 5404.0, 5321.0, 5688.0, 5650.0, 5518.0, 5255.0, 5718.0, 5581.0, 5617.0, 5458.0, 5622.0, 5686.0, 5706.0, 5423.0, 5310.0, 5288.0, 5450.0, 5703.0, 5418.0, 5691.0, 5273.0, 5571.0, 5424.0, 5264.0, 5406.0 (number of hits: 5)
10	5515.0	9	1.0	333	1	5400.0, 5471.0, 5282.0, 5416.0, 5546.0, 5540.0, 5641.0, 5264.0, 5280.0, 5635.0, 5649.0, 5634.0, 5252.0, 5406.0, 5678.0, 5378.0, 5450.0, 5270.0, 5522.0, 5281.0, 5324.0, 5459.0, 5407.0, 5460.0, 5582.0, 5551.0, 5366.0, 5383.0, 5653.0, 5541.0, 5723.0, 5612.0, 5273.0, 5673.0, 5668.0, 5441.0, 5260.0, 5375.0, 5578.0, 5563.0, 5274.0, 5568.0, 5676.0, 5254.0, 5380.0, 5514.0, 5716.0, 5357.0, 5682.0, 5266.0, 5314.0, 5602.0, 5325.0, 5376.0, 5490.0, 5294.0, 5367.0, 5671.0, 5299.0, 5660.0, 5356.0, 5481.0, 5409.0, 5625.0, 5298.0, 5442.0, 5534.0, 5648.0, 5656.0, 5258.0, 5605.0, 5579.0, 5617.0, 5476.0, 5469.0, 5558.0, 5669.0, 5360.0, 5393.0, 5620.0, 5654.0, 5610.0, 5415.0, 5289.0, 5507.0, 5488.0, 5436.0, 5701.0, 5300.0, 5591.0, 5696.0, 5581.0, 5638.0, 5404.0, 5661.0, 5352.0, 5597.0, 5542.0, 5403.0, 5644.0 (number of hits: 3)
11	5520.0	9	1.0	333	1	5452.0, 5476.0, 5602.0, 5682.0, 5620.0, 5506.0, 5482.0, 5381.0, 5339.0, 5548.0, 5458.0, 5503.0, 5573.0, 5572.0, 5673.0, 5705.0, 5527.0, 5373.0, 5624.0, 5532.0, 5583.0, 5633.0, 5254.0, 5390.0, 5391.0, 5343.0, 5307.0, 5422.0, 5648.0, 5315.0, 5493.0, 5661.0, 5285.0, 5637.0, 5421.0, 5289.0, 5486.0, 5582.0, 5577.0, 5587.0, 5522.0, 5467.0, 5472.0, 5542.0, 5370.0, 5551.0, 5641.0, 5338.0, 5526.0, 5616.0, 5621.0, 5349.0, 5703.0, 5420.0, 5428.0, 5313.0, 5491.0, 5642.0, 5374.0, 5403.0, 5455.0, 5378.0, 5293.0, 5260.0, 5702.0, 5643.0, 5362.0, 5321.0, 5563.0, 5612.0, 5499.0, 5387.0, 5418.0, 5539.0, 5684.0, 5601.0, 5398.0, 5340.0, 5352.0, 5427.0, 5459.0, 5609.0, 5541.0, 5646.0, 5550.0, 5546.0, 5344.0, 5444.0, 5457.0, 5631.0, 5659.0, 5355.0, 5262.0, 5399.0, 5589.0, 5276.0, 5651.0, 5312.0, 5330.0, 5359.0 (number of hits: 6)
12	5520.0	9	1.0	333	1	5351.0, 5378.0, 5537.0, 5250.0, 5653.0, 5532.0, 5651.0, 5343.0, 5264.0, 5572.0, 5348.0, 5579.0, 5577.0, 5376.0, 5280.0, 5283.0, 5693.0, 5494.0, 5567.0, 5560.0, 5266.0, 5340.0, 5597.0, 5428.0, 5558.0, 5411.0, 5302.0, 5251.0, 5694.0, 5267.0, 5479.0, 5447.0, 5620.0, 5533.0, 5526.0,

						5344.0, 5606.0, 5426.0, 5652.0, 5590.0, 5698.0, 5585.0, 5328.0, 5656.0, 5499.0, 5319.0, 5636.0, 5258.0, 5476.0, 5276.0, 5688.0, 5335.0, 5384.0, 5259.0, 5713.0, 5440.0, 5557.0, 5711.0, 5642.0, 5495.0, 5504.0, 5413.0, 5559.0, 5701.0, 5269.0, 5268.0, 5566.0, 5510.0, 5517.0, 5409.0, 5708.0, 5719.0, 5490.0, 5600.0, 5638.0, 5404.0, 5603.0, 5630.0, 5468.0, 5369.0, 5337.0, 5347.0, 5438.0, 5405.0, 5278.0, 5568.0, 5553.0, 5459.0, 5451.0, 5368.0, 5705.0, 5707.0, 5354.0, 5331.0, 5425.0, 5605.0, 5672.0, 5677.0, 5640.0, 5598.0 (number of hits: 7)
13	5520.0	9	1.0	333	1	5268.0, 5670.0, 5585.0, 5651.0, 5581.0, 5386.0, 5679.0, 5283.0, 5453.0, 5437.0, 5646.0, 5427.0, 5699.0, 5682.0, 5304.0, 5467.0, 5706.0, 5523.0, 5543.0, 5498.0, 5563.0, 5681.0, 5672.0, 5571.0, 5340.0, 5514.0, 5667.0, 5380.0, 5680.0, 5664.0, 5250.0, 5429.0, 5624.0, 5588.0, 5493.0, 5421.0, 5332.0, 5267.0, 5500.0, 5713.0, 5565.0, 5542.0, 5382.0, 5259.0, 5400.0, 5468.0, 5391.0, 5368.0, 5698.0, 5454.0, 5484.0, 5371.0, 5627.0, 5499.0, 5524.0, 5549.0, 5387.0, 5470.0, 5295.0, 5323.0, 5381.0, 5384.0, 5414.0, 5476.0, 5721.0, 5362.0, 5365.0, 5331.0, 5634.0, 5482.0, 5582.0, 5544.0, 5538.0, 5383.0, 5616.0, 5318.0, 5513.0, 5313.0, 5509.0, 5558.0, 5573.0, 5403.0, 5702.0, 5553.0, 5491.0, 5521.0, 5357.0, 5497.0, 5719.0, 5635.0, 5410.0, 5425.0, 5296.0, 5442.0, 5366.0, 5281.0, 5548.0, 5605.0, 5439.0, 5584.0 (number of hits: 6)
14	5520.0	9	1.0	333	1	5439.0, 5696.0, 5269.0, 5626.0, 5387.0, 5416.0, 5477.0, 5266.0, 5309.0, 5527.0, 5425.0, 5426.0, 5629.0, 5270.0, 5609.0, 5608.0, 5252.0, 5500.0, 5584.0, 5412.0, 5446.0, 5540.0, 5687.0, 5668.0, 5506.0, 5409.0, 5660.0, 5704.0, 5344.0, 5271.0, 5356.0, 5651.0, 5493.0, 5497.0, 5582.0, 5521.0, 5362.0, 5693.0, 5706.0, 5375.0, 5632.0, 5376.0, 5469.0, 5491.0, 5436.0, 5282.0, 5346.0, 5402.0, 5457.0, 5639.0, 5453.0, 5293.0, 5342.0, 5262.0, 5622.0, 5470.0, 5361.0, 5621.0, 5545.0, 5643.0, 5445.0, 5370.0, 5421.0, 5318.0, 5633.0, 5275.0, 5593.0, 5617.0, 5522.0, 5368.0, 5637.0, 5586.0, 5562.0, 5327.0, 5310.0, 5532.0, 5481.0, 5502.0, 5694.0, 5596.0, 5680.0, 5652.0, 5427.0, 5418.0, 5517.0, 5601.0, 5599.0, 5487.0, 5574.0, 5565.0, 5702.0, 5431.0, 5280.0, 5598.0, 5377.0, 5640.0, 5508.0, 5688.0, 5279.0, 5654.0 (number of hits: 8)
15	5520.0	9	1.0	333	1	5594.0, 5720.0, 5509.0, 5668.0, 5376.0, 5677.0, 5424.0, 5264.0, 5585.0, 5453.0, 5559.0, 5447.0, 5308.0, 5703.0, 5373.0, 5722.0, 5378.0, 5694.0, 5483.0, 5505.0, 5257.0, 5275.0, 5684.0, 5724.0, 5542.0,

						5644.0, 5554.0, 5323.0, 5278.0, 5581.0, 5392.0, 5325.0, 5535.0, 5383.0, 5432.0, 5404.0, 5664.0, 5354.0, 5339.0, 5457.0, 5533.0, 5313.0, 5713.0, 5441.0, 5460.0, 5435.0, 5637.0, 5320.0, 5402.0, 5327.0, 5573.0, 5358.0, 5347.0, 5370.0, 5258.0, 5622.0, 5472.0, 5396.0, 5544.0, 5342.0, 5570.0, 5510.0, 5630.0, 5692.0, 5671.0, 5623.0, 5710.0, 5410.0, 5613.0, 5715.0, 5716.0, 5617.0, 5281.0, 5624.0, 5487.0, 5474.0, 5312.0, 5612.0, 5294.0, 5270.0, 5350.0, 5552.0, 5425.0, 5329.0, 5442.0, 5696.0, 5627.0, 5690.0, 5470.0, 5534.0, 5471.0, 5569.0, 5698.0, 5628.0, 5319.0, 5647.0, 5689.0, 5545.0, 5685.0, 5499.0 (number of hits: 6)
16	5500.0	9	1.0	333	1	5340.0, 5459.0, 5604.0, 5681.0, 5298.0, 5277.0, 5717.0, 5603.0, 5600.0, 5371.0, 5620.0, 5466.0, 5708.0, 5334.0, 5274.0, 5687.0, 5650.0, 5352.0, 5342.0, 5295.0, 5291.0, 5428.0, 5703.0, 5563.0, 5375.0, 5685.0, 5432.0, 5549.0, 5473.0, 5251.0, 5278.0, 5602.0, 5451.0, 5669.0, 5537.0, 5305.0, 5308.0, 5582.0, 5414.0, 5474.0, 5288.0, 5672.0, 5471.0, 5497.0, 5344.0, 5555.0, 5605.0, 5519.0, 5492.0, 5608.0, 5462.0, 5559.0, 5356.0, 5314.0, 5319.0, 5333.0, 5721.0, 5664.0, 5395.0, 5661.0, 5313.0, 5304.0, 5358.0, 5579.0, 5665.0, 5651.0, 5629.0, 5263.0, 5615.0, 5709.0, 5257.0, 5423.0, 5360.0, 5412.0, 5370.0, 5663.0, 5368.0, 5640.0, 5255.0, 5583.0, 5337.0, 5490.0, 5328.0, 5467.0, 5409.0, 5589.0, 5289.0, 5580.0, 5532.0, 5510.0, 5391.0, 5544.0, 5378.0, 5565.0, 5523.0, 5576.0, 5631.0, 5720.0, 5399.0, 5380.0 (number of hits: 4)
17	5500.0	9	1.0	333	1	5647.0, 5516.0, 5300.0, 5462.0, 5568.0, 5376.0, 5533.0, 5458.0, 5552.0, 5601.0, 5415.0, 5277.0, 5285.0, 5687.0, 5429.0, 5266.0, 5360.0, 5457.0, 5580.0, 5379.0, 5523.0, 5646.0, 5418.0, 5468.0, 5507.0, 5550.0, 5275.0, 5632.0, 5416.0, 5534.0, 5528.0, 5721.0, 5540.0, 5318.0, 5286.0, 5433.0, 5609.0, 5558.0, 5346.0, 5589.0, 5503.0, 5667.0, 5713.0, 5566.0, 5520.0, 5680.0, 5382.0, 5617.0, 5701.0, 5519.0, 5711.0, 5595.0, 5556.0, 5682.0, 5599.0, 5278.0, 5276.0, 5350.0, 5604.0, 5407.0, 5625.0, 5478.0, 5401.0, 5301.0, 5279.0, 5715.0, 5657.0, 5698.0, 5254.0, 5588.0, 5283.0, 5563.0, 5391.0, 5676.0, 5268.0, 5707.0, 5354.0, 5581.0, 5656.0, 5575.0, 5494.0, 5377.0, 5451.0, 5596.0, 5345.0, 5492.0, 5522.0, 5513.0, 5476.0, 5671.0, 5261.0, 5493.0, 5694.0, 5630.0, 5489.0, 5380.0, 5546.0, 5597.0, 5681.0, 5297.0 (number of hits: 8)
18	5500.0	9	1.0	333	1	5520.0, 5492.0, 5364.0, 5255.0, 5508.0, 5586.0, 5570.0, 5535.0, 5410.0, 5407.0, 5494.0, 5542.0, 5651.0, 5572.0, 5694.0,

						5453.0, 5511.0, 5536.0, 5550.0, 5417.0, 5680.0, 5656.0, 5339.0, 5546.0, 5462.0, 5521.0, 5642.0, 5474.0, 5306.0, 5312.0, 5618.0, 5351.0, 5590.0, 5527.0, 5367.0, 5400.0, 5449.0, 5661.0, 5389.0, 5319.0, 5552.0, 5636.0, 5560.0, 5713.0, 5379.0, 5341.0, 5479.0, 5676.0, 5653.0, 5619.0, 5282.0, 5466.0, 5679.0, 5709.0, 5557.0, 5507.0, 5348.0, 5478.0, 5283.0, 5388.0, 5436.0, 5665.0, 5480.0, 5683.0, 5594.0, 5556.0, 5432.0, 5331.0, 5440.0, 5446.0, 5568.0, 5658.0, 5620.0, 5524.0, 5497.0, 5589.0, 5399.0, 5519.0, 5537.0, 5670.0, 5403.0, 5701.0, 5422.0, 5545.0, 5396.0, 5254.0, 5302.0, 5558.0, 5315.0, 5687.0, 5578.0, 5645.0, 5412.0, 5332.0, 5419.0, 5378.0, 5682.0, 5362.0, 5706.0, 5486.0 (number of hits: 7)
19	5500.0	9	1.0	333	1	5514.0, 5584.0, 5373.0, 5296.0, 5378.0, 5268.0, 5427.0, 5670.0, 5715.0, 5380.0, 5697.0, 5602.0, 5415.0, 5502.0, 5431.0, 5671.0, 5384.0, 5487.0, 5709.0, 5320.0, 5532.0, 5665.0, 5495.0, 5318.0, 5474.0, 5653.0, 5696.0, 5480.0, 5657.0, 5395.0, 5585.0, 5383.0, 5654.0, 5576.0, 5716.0, 5634.0, 5465.0, 5527.0, 5568.0, 5650.0, 5509.0, 5609.0, 5288.0, 5336.0, 5535.0, 5270.0, 5287.0, 5252.0, 5274.0, 5379.0, 5279.0, 5254.0, 5677.0, 5546.0, 5340.0, 5401.0, 5375.0, 5669.0, 5280.0, 5608.0, 5349.0, 5562.0, 5271.0, 5473.0, 5519.0, 5335.0, 5290.0, 5478.0, 5317.0, 5358.0, 5645.0, 5429.0, 5547.0, 5292.0, 5458.0, 5543.0, 5707.0, 5439.0, 5397.0, 5412.0, 5628.0, 5315.0, 5257.0, 5432.0, 5281.0, 5598.0, 5411.0, 5545.0, 5348.0, 5386.0, 5322.0, 5396.0, 5425.0, 5688.0, 5573.0, 5698.0, 5531.0, 5339.0, 5702.0, 5603.0 (number of hits: 5)
20	5500.0	9	1.0	333	1	5576.0, 5662.0, 5558.0, 5534.0, 5690.0, 5466.0, 5456.0, 5451.0, 5677.0, 5721.0, 5408.0, 5368.0, 5344.0, 5544.0, 5310.0, 5284.0, 5467.0, 5713.0, 5279.0, 5306.0, 5611.0, 5380.0, 5323.0, 5512.0, 5702.0, 5254.0, 5679.0, 5372.0, 5506.0, 5394.0, 5497.0, 5592.0, 5628.0, 5703.0, 5588.0, 5278.0, 5267.0, 5569.0, 5335.0, 5502.0, 5649.0, 5409.0, 5562.0, 5613.0, 5293.0, 5622.0, 5525.0, 5637.0, 5654.0, 5657.0, 5444.0, 5402.0, 5543.0, 5678.0, 5357.0, 5692.0, 5333.0, 5563.0, 5453.0, 5600.0, 5523.0, 5684.0, 5520.0, 5305.0, 5531.0, 5474.0, 5435.0, 5504.0, 5567.0, 5384.0, 5296.0, 5505.0, 5410.0, 5639.0, 5320.0, 5587.0, 5353.0, 5329.0, 5661.0, 5605.0, 5642.0, 5672.0, 5446.0, 5407.0, 5626.0, 5601.0, 5620.0, 5287.0, 5427.0, 5417.0, 5434.0, 5519.0, 5330.0, 5513.0, 5273.0, 5583.0, 5432.0, 5663.0, 5489.0, 5647.0 (number of hits: 8)
21	5525.0	9	1.0	333	1	5620.0, 5634.0, 5524.0, 5493.0, 5655.0,

						5489.0, 5709.0, 5269.0, 5396.0, 5384.0, 5365.0, 5681.0, 5377.0, 5346.0, 5340.0, 5717.0, 5254.0, 5689.0, 5400.0, 5315.0, 5722.0, 5443.0, 5257.0, 5497.0, 5533.0, 5350.0, 5718.0, 5558.0, 5363.0, 5590.0, 5649.0, 5353.0, 5677.0, 5499.0, 5394.0, 5613.0, 5349.0, 5422.0, 5264.0, 5492.0, 5475.0, 5457.0, 5345.0, 5464.0, 5392.0, 5660.0, 5476.0, 5428.0, 5631.0, 5416.0, 5276.0, 5711.0, 5720.0, 5446.0, 5659.0, 5650.0, 5308.0, 5306.0, 5635.0, 5480.0, 5570.0, 5251.0, 5545.0, 5339.0, 5407.0, 5465.0, 5267.0, 5626.0, 5719.0, 5546.0, 5268.0, 5452.0, 5411.0, 5304.0, 5418.0, 5296.0, 5397.0, 5622.0, 5343.0, 5372.0, 5375.0, 5534.0, 5312.0, 5630.0, 5335.0, 5557.0, 5694.0, 5287.0, 5521.0, 5657.0, 5514.0, 5610.0, 5470.0, 5603.0, 5690.0, 5322.0, 5408.0, 5347.0, 5608.0, 5517.0 (number of hits: 6)
22	5525.0	9	1.0	333	1	5373.0, 5634.0, 5642.0, 5300.0, 5667.0, 5357.0, 5492.0, 5280.0, 5573.0, 5267.0, 5615.0, 5636.0, 5306.0, 5582.0, 5575.0, 5297.0, 5543.0, 5295.0, 5538.0, 5703.0, 5336.0, 5435.0, 5388.0, 5449.0, 5431.0, 5604.0, 5568.0, 5363.0, 5312.0, 5282.0, 5701.0, 5404.0, 5686.0, 5607.0, 5539.0, 5687.0, 5591.0, 5588.0, 5467.0, 5716.0, 5512.0, 5484.0, 5473.0, 5410.0, 5563.0, 5319.0, 5347.0, 5277.0, 5602.0, 5361.0, 5455.0, 5525.0, 5586.0, 5674.0, 5453.0, 5325.0, 5677.0, 5661.0, 5308.0, 5251.0, 5558.0, 5649.0, 5468.0, 5418.0, 5651.0, 5421.0, 5335.0, 5528.0, 5476.0, 5544.0, 5442.0, 5408.0, 5616.0, 5380.0, 5461.0, 5527.0, 5596.0, 5526.0, 5645.0, 5331.0, 5498.0, 5629.0, 5632.0, 5337.0, 5520.0, 5313.0, 5717.0, 5441.0, 5463.0, 5322.0, 5265.0, 5546.0, 5646.0, 5332.0, 5617.0, 5508.0, 5496.0, 5356.0, 5519.0, 5264.0 (number of hits: 10)
23	5525.0	9	1.0	333	1	5560.0, 5674.0, 5358.0, 5686.0, 5381.0, 5394.0, 5440.0, 5687.0, 5415.0, 5504.0, 5481.0, 5343.0, 5631.0, 5506.0, 5618.0, 5710.0, 5490.0, 5352.0, 5577.0, 5495.0, 5453.0, 5644.0, 5530.0, 5401.0, 5416.0, 5320.0, 5460.0, 5283.0, 5420.0, 5516.0, 5691.0, 5341.0, 5608.0, 5359.0, 5367.0, 5633.0, 5634.0, 5695.0, 5296.0, 5434.0, 5677.0, 5350.0, 5486.0, 5696.0, 5254.0, 5714.0, 5275.0, 5382.0, 5399.0, 5585.0, 5596.0, 5601.0, 5722.0, 5422.0, 5302.0, 5285.0, 5305.0, 5579.0, 5672.0, 5436.0, 5347.0, 5582.0, 5692.0, 5581.0, 5412.0, 5494.0, 5612.0, 5408.0, 5461.0, 5666.0, 5589.0, 5713.0, 5329.0, 5334.0, 5391.0, 5688.0, 5277.0, 5331.0, 5627.0, 5635.0, 5540.0, 5411.0, 5458.0, 5448.0, 5368.0, 5493.0, 5501.0, 5654.0, 5626.0, 5361.0, 5717.0, 5340.0, 5353.0, 5526.0, 5569.0, 5716.0, 5385.0, 5466.0, 5505.0, 5561.0

						(number of hits: 4)
24	5525.0	9	1.0	333	1	5676.0, 5427.0, 5319.0, 5358.0, 5398.0, 5488.0, 5661.0, 5695.0, 5392.0, 5580.0, 5464.0, 5478.0, 5430.0, 5563.0, 5366.0, 5560.0, 5453.0, 5571.0, 5715.0, 5712.0, 5527.0, 5298.0, 5376.0, 5350.0, 5598.0, 5434.0, 5318.0, 5250.0, 5716.0, 5423.0, 5390.0, 5292.0, 5330.0, 5638.0, 5485.0, 5356.0, 5380.0, 5290.0, 5659.0, 5278.0, 5544.0, 5493.0, 5522.0, 5407.0, 5646.0, 5272.0, 5383.0, 5681.0, 5359.0, 5458.0, 5352.0, 5631.0, 5711.0, 5496.0, 5393.0, 5665.0, 5570.0, 5353.0, 5444.0, 5437.0, 5655.0, 5267.0, 5535.0, 5280.0, 5673.0, 5537.0, 5313.0, 5473.0, 5323.0, 5700.0, 5683.0, 5608.0, 5460.0, 5723.0, 5593.0, 5719.0, 5675.0, 5455.0, 5501.0, 5703.0, 5341.0, 5720.0, 5532.0, 5294.0, 5252.0, 5348.0, 5713.0, 5322.0, 5378.0, 5315.0, 5611.0, 5360.0, 5456.0, 5401.0, 5446.0, 5609.0, 5633.0, 5643.0, 5635.0, 5343.0
						(number of hits: 5)
25	5525.0	9	1.0	333	1	5286.0, 5317.0, 5269.0, 5516.0, 5414.0, 5389.0, 5421.0, 5384.0, 5540.0, 5459.0, 5468.0, 5582.0, 5504.0, 5373.0, 5363.0, 5424.0, 5316.0, 5460.0, 5375.0, 5541.0, 5572.0, 5680.0, 5609.0, 5271.0, 5661.0, 5488.0, 5270.0, 5265.0, 5415.0, 5501.0, 5320.0, 5447.0, 5677.0, 5717.0, 5495.0, 5434.0, 5359.0, 5573.0, 5644.0, 5601.0, 5429.0, 5471.0, 5656.0, 5448.0, 5310.0, 5431.0, 5580.0, 5652.0, 5483.0, 5676.0, 5387.0, 5324.0, 5300.0, 5273.0, 5683.0, 5400.0, 5425.0, 5337.0, 5561.0, 5497.0, 5664.0, 5602.0, 5640.0, 5487.0, 5411.0, 5581.0, 5627.0, 5427.0, 5545.0, 5262.0, 5681.0, 5571.0, 5688.0, 5332.0, 5478.0, 5674.0, 5557.0, 5463.0, 5613.0, 5695.0, 5593.0, 5705.0, 5508.0, 5451.0, 5432.0, 5318.0, 5490.0, 5647.0, 5653.0, 5402.0, 5595.0, 5505.0, 5559.0, 5697.0, 5362.0, 5633.0, 5352.0, 5622.0, 5264.0, 5492.0
						(number of hits: 4)
26	5495.0	9	1.0	333	1	5635.0, 5443.0, 5337.0, 5664.0, 5323.0, 5307.0, 5451.0, 5679.0, 5358.0, 5587.0, 5300.0, 5343.0, 5665.0, 5530.0, 5311.0, 5357.0, 5714.0, 5476.0, 5317.0, 5721.0, 5423.0, 5542.0, 5326.0, 5403.0, 5263.0, 5628.0, 5540.0, 5682.0, 5677.0, 5715.0, 5541.0, 5285.0, 5712.0, 5267.0, 5629.0, 5437.0, 5667.0, 5568.0, 5320.0, 5430.0, 5270.0, 5539.0, 5524.0, 5502.0, 5694.0, 5427.0, 5709.0, 5296.0, 5431.0, 5669.0, 5633.0, 5579.0, 5333.0, 5445.0, 5304.0, 5454.0, 5347.0, 5434.0, 5381.0, 5528.0, 5383.0, 5645.0, 5497.0, 5409.0, 5647.0, 5564.0, 5511.0, 5503.0, 5622.0, 5716.0, 5412.0, 5480.0, 5468.0, 5549.0, 5498.0, 5662.0, 5678.0, 5615.0, 5551.0, 5552.0, 5269.0, 5724.0, 5546.0, 5360.0, 5630.0, 5253.0, 5393.0, 5626.0, 5325.0, 5334.0

						5604.0, 5293.0, 5695.0, 5405.0, 5659.0, 5390.0, 5687.0, 5596.0, 5458.0, 5536.0 (number of hits: 6)
27	5495.0	9	1.0	333	1	5504.0, 5680.0, 5553.0, 5638.0, 5599.0, 5367.0, 5589.0, 5610.0, 5669.0, 5388.0, 5264.0, 5704.0, 5506.0, 5400.0, 5621.0, 5306.0, 5468.0, 5402.0, 5507.0, 5475.0, 5443.0, 5588.0, 5409.0, 5648.0, 5325.0, 5609.0, 5318.0, 5600.0, 5601.0, 5487.0, 5710.0, 5329.0, 5454.0, 5279.0, 5404.0, 5549.0, 5285.0, 5339.0, 5531.0, 5420.0, 5688.0, 5342.0, 5343.0, 5711.0, 5359.0, 5384.0, 5702.0, 5439.0, 5251.0, 5319.0, 5687.0, 5650.0, 5459.0, 5717.0, 5681.0, 5445.0, 5640.0, 5403.0, 5470.0, 5637.0, 5252.0, 5626.0, 5335.0, 5418.0, 5693.0, 5357.0, 5337.0, 5629.0, 5447.0, 5355.0, 5577.0, 5478.0, 5501.0, 5411.0, 5571.0, 5558.0, 5307.0, 5579.0, 5300.0, 5254.0, 5473.0, 5544.0, 5593.0, 5396.0, 5358.0, 5380.0, 5382.0, 5590.0, 5462.0, 5614.0, 5460.0, 5446.0, 5652.0, 5259.0, 5573.0, 5474.0, 5641.0, 5370.0, 5434.0, 5381.0 (number of hits: 6)
28	5495.0	9	1.0	333	1	5670.0, 5682.0, 5400.0, 5436.0, 5324.0, 5590.0, 5287.0, 5529.0, 5456.0, 5325.0, 5424.0, 5658.0, 5464.0, 5552.0, 5494.0, 5694.0, 5408.0, 5389.0, 5722.0, 5275.0, 5665.0, 5649.0, 5500.0, 5593.0, 5661.0, 5410.0, 5654.0, 5344.0, 5627.0, 5638.0, 5382.0, 5359.0, 5489.0, 5487.0, 5640.0, 5457.0, 5623.0, 5616.0, 5285.0, 5349.0, 5546.0, 5415.0, 5574.0, 5482.0, 5335.0, 5366.0, 5675.0, 5477.0, 5376.0, 5639.0, 5697.0, 5358.0, 5463.0, 5394.0, 5534.0, 5255.0, 5291.0, 5561.0, 5514.0, 5606.0, 5318.0, 5644.0, 5334.0, 5549.0, 5509.0, 5609.0, 5535.0, 5539.0, 5406.0, 5444.0, 5432.0, 5387.0, 5531.0, 5497.0, 5251.0, 5580.0, 5671.0, 5381.0, 5443.0, 5362.0, 5674.0, 5399.0, 5689.0, 5687.0, 5595.0, 5666.0, 5589.0, 5459.0, 5321.0, 5523.0, 5499.0, 5490.0, 5634.0, 5298.0, 5503.0, 5646.0, 5584.0, 5396.0, 5681.0, 5452.0 (number of hits: 11)
29	5495.0	9	1.0	333	1	5515.0, 5270.0, 5496.0, 5646.0, 5597.0, 5634.0, 5358.0, 5368.0, 5512.0, 5289.0, 5696.0, 5655.0, 5503.0, 5556.0, 5374.0, 5337.0, 5489.0, 5522.0, 5492.0, 5323.0, 5287.0, 5319.0, 5463.0, 5257.0, 5508.0, 5475.0, 5509.0, 5581.0, 5480.0, 5436.0, 5372.0, 5561.0, 5599.0, 5278.0, 5616.0, 5665.0, 5676.0, 5513.0, 5362.0, 5631.0, 5484.0, 5585.0, 5700.0, 5308.0, 5555.0, 5534.0, 5640.0, 5322.0, 5711.0, 5698.0, 5548.0, 5449.0, 5685.0, 5576.0, 5441.0, 5683.0, 5288.0, 5320.0, 5628.0, 5620.0, 5470.0, 5262.0, 5618.0, 5391.0, 5349.0, 5403.0, 5535.0, 5663.0, 5383.0, 5468.0, 5251.0, 5365.0, 5526.0, 5408.0, 5639.0, 5542.0, 5723.0, 5343.0, 5348.0, 5624.0,

						5325.0, 5437.0, 5651.0, 5318.0, 5467.0, 5477.0, 5717.0, 5401.0, 5398.0, 5602.0, 5280.0, 5635.0, 5598.0, 5481.0, 5703.0, 5650.0, 5255.0, 5518.0, 5533.0, 5310.0 (number of hits: 11)
30	5495.0	9	1.0	333	1	5379.0, 5618.0, 5378.0, 5321.0, 5315.0, 5414.0, 5458.0, 5295.0, 5490.0, 5542.0, 5290.0, 5603.0, 5324.0, 5266.0, 5710.0, 5634.0, 5461.0, 5590.0, 5496.0, 5593.0, 5346.0, 5433.0, 5464.0, 5358.0, 5373.0, 5375.0, 5617.0, 5498.0, 5595.0, 5629.0, 5507.0, 5697.0, 5367.0, 5669.0, 5281.0, 5445.0, 5255.0, 5286.0, 5527.0, 5347.0, 5391.0, 5481.0, 5721.0, 5538.0, 5672.0, 5452.0, 5381.0, 5416.0, 5724.0, 5676.0, 5280.0, 5339.0, 5337.0, 5680.0, 5289.0, 5370.0, 5437.0, 5601.0, 5517.0, 5317.0, 5408.0, 5565.0, 5435.0, 5520.0, 5664.0, 5654.0, 5344.0, 5263.0, 5365.0, 5288.0, 5374.0, 5624.0, 5635.0, 5325.0, 5332.0, 5639.0, 5574.0, 5655.0, 5427.0, 5677.0, 5685.0, 5258.0, 5349.0, 5309.0, 5506.0, 5268.0, 5278.0, 5457.0, 5447.0, 5559.0, 5356.0, 5596.0, 5705.0, 5668.0, 5360.0, 5487.0, 5471.0, 5482.0, 5614.0, 5303.0 (number of hits: 8)

**AP Mode
Iron Radio****5530 MHz, 80 MHz Bandwidth**

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1A/1B	30	96.7 %	60%	Pass
Type 2	30	76.7 %	60%	Pass
Type 3	30	86.7 %	60%	Pass
Type 4	30	83.3 %	60%	Pass
Aggregate (Type1 to 4)	120	85.8 %	80%	Pass
Type 5	30	93.3 %	80%	Pass
Type 6	30	100 %	70%	Pass

Please refer to the following statistical tables:

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

Note: Radar was generated randomly in the frequency range of 5490-5570 MHz.

Trial #	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	61	1.0	878	1
2	95	1.0	558	1
3	83	1.0	638	1
4	70	1.0	758	1
5	99	1.0	538	1
6	62	1.0	858	1
7	59	1.0	898	1
8	65	1.0	818	1
9	86	1.0	618	1
10	57	1.0	938	1
11	92	1.0	578	1
12	74	1.0	718	0
13	67	1.0	798	1
14	78	1.0	678	1
15	89	1.0	598	1
16	26	1.0	2080	1
17	53	1.0	1005	1
18	65	1.0	821	1
19	52	1.0	1027	1
20	26	1.0	2039	1
21	32	1.0	1660	1
22	19	1.0	2930	1
23	48	1.0	1100	1
24	20	1.0	2712	1
25	19	1.0	2911	1
26	41	1.0	1288	1
27	22	1.0	2447	1
28	22	1.0	2457	1
29	51	1.0	1036	1
30	25	1.0	2152	1
Detection Percentage: 96.7 % (>60%)				

Table-2 Radar Type 2 Statistical Performance

Note: Radar was generated randomly in the frequency range of 5490-5570 MHz.

Trial #	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	29	4.9	160	0
2	24	1.9	220	1
3	29	3.8	171	1
4	23	1.8	156	1
5	25	4.1	175	0
6	25	2.8	164	1
7	24	3.8	195	1
8	26	2.2	208	1
9	23	4.3	167	1
10	27	4.7	208	1
11	28	4.3	229	0
12	23	4.1	159	1
13	27	5.0	151	1
14	28	3.8	172	1
15	29	4.7	177	1
16	26	4.4	175	0
17	24	2.8	203	1
18	28	2.4	158	1
19	29	2.5	157	1
20	26	1.2	190	1
21	23	2.0	157	0
22	23	4.0	222	1
23	24	4.7	207	0
24	24	3.3	175	1
25	25	2.5	161	1
26	24	3.2	223	0
27	26	2.8	229	1
28	25	2.4	218	1
29	29	2.2	198	1
30	29	1.1	210	1
Detection Percentage: 76.7% (>60%)				

Table-3 Radar Type 3 Statistical Performance

Note: Radar was generated randomly in the frequency range of 5490-5570 MHz.

Trial #	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	18	7.6	255	1
2	16	6.0	423	1
3	16	6.1	363	1
4	16	8.7	264	1
5	17	7.0	315	1
6	18	7.5	276	1
7	18	7.4	478	0
8	17	8.2	202	1
9	16	6.7	321	1
10	16	6.5	237	0
11	17	9.8	331	1
12	16	6.7	308	1
13	16	8.7	379	1
14	16	8.2	481	1
15	18	9.8	348	1
16	18	9.3	343	1
17	18	6.4	422	1
18	16	7.2	393	1
19	18	9.3	382	1
20	16	9.9	484	1
21	18	6.4	240	1
22	16	8.2	374	1
23	16	6.4	487	1
24	18	6.7	248	1
25	18	7.5	352	0
26	17	6.2	341	1
27	17	7.0	296	0
28	17	6.2	379	1
29	17	9.9	361	1
30	17	7.6	383	1
Detection Percentage: 86.7 % (>60%)				

Table-4 Radar Type 4 Statistical Performance

Note: Radar was generated randomly in the frequency range of 5490-5570 MHz.

Trial #	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	12	14.7	488	1
2	13	15.6	342	1
3	16	18.7	412	1
4	15	14.5	385	1
5	14	15.8	246	1
6	15	18.5	407	1
7	16	18.1	255	0
8	15	19.9	335	1
9	13	16.3	232	1
10	12	17.9	350	1
11	15	19.3	319	1
12	15	15.6	412	0
13	13	13.9	235	1
14	13	11.0	209	0
15	16	15.6	316	1
16	13	13.7	499	1
17	15	15.0	435	1
18	16	11.2	336	1
19	14	18.9	350	1
20	12	13.0	230	1
21	12	11.4	229	1
22	14	12.5	331	1
23	13	12.2	351	1
24	15	12.7	373	1
25	14	17.8	390	1
26	16	14.1	271	1
27	15	15.4	353	1
28	13	11.1	373	0
29	15	11.1	306	0
30	14	14.3	452	1
Detection Percentage: 83.3 % (>60%)				

Table-5 Radar Type 5 Statistical Performance

Trial #	Fc (MHz)	Detection (1:yes; 0:no)
1	5530	1
2	5530	1
3	5530	1
4	5530	1
5	5530	1
6	5530	1
7	5530	1
8	5530	1
9	5530	1
10	5530	1
11	5498.5	1
12	5497.3	1
13	5500.5	1
14	5496.9	1
15	5496.1	1
16	5498.1	1
17	5500.1	1
18	5499.3	1
19	5497.3	1
20	5494.9	1
21	5561.8	1
22	5561.0	1
23	5559.0	1
24	5561.4	1
25	5563.8	0
26	5562.2	1
27	5561.4	1
28	5561.0	1
29	5560.2	1
30	5565.0	0
Detection Percentage: 93.3 % (>80%)		

Bin5 Statistics 1

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	15	58.6	1143	1938	0.505519	1
1	2	15	63.1	1853		0.668165	
2	3	15	85.1	1077	1411	1.611632	
3	2	15	77.8	1304		2.556072	
4	2	15	86.0	1587		3.307966	
5	1	15	95.1			3.725272	
6	2	15	78.8	1892		4.053868	
7	2	15	63.1	1065		5.305222	
8	3	15	91.9	1770	1987	5.425599	
9	2	15	57.1	1629		6.313381	
10	2	15	84.3	1054		7.129445	
11	2	15	66.6	1466		7.695738	
12	2	15	82.5	1584		8.622886	
13	2	15	80.6	1701		8.796964	
14	1	15	50.4			9.993731	
15	2	15	50.1	1665		10.192435	
16	1	15	60.4			10.776587	
17	2	15	87.7	1322		11.390350	

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	6	97.4	1367		0.017529	1
1	2	6	54.7	1616		1.523524	
2	1	6	70.2			2.289516	
3	2	6	70.3	1846		2.919977	
4	2	6	93.5	1102		4.449993	
5	2	6	64.0	1146		5.282128	
6	3	6	57.2	1472	1629	5.972860	
7	3	6	52.7	1069	1091	7.167107	
8	2	6	53.9	1138		7.996745	
9	1	6	89.2			8.472205	
10	2	6	70.3	1823		9.903039	
11	3	6	80.8	1105	1129	10.749911	
12	1	6	94.5			11.668125	

Bin5 Statistics 3

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	11	55.6	1179	1493	0.058282	1
1	2	11	83.9	1229		1.740236	
2	2	11	76.4	1852		3.492707	
3	2	11	74.5	1712		5.962575	
4	1	11	51.0			6.102739	
5	3	11	55.5	1060	1517	8.211171	
6	2	11	86.0	1297		9.261450	
7	3	11	93.0	1888	1982	11.021861	

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	11	60.9			0.292191	1
1	1	11	86.2			1.032458	
2	2	11	88.4	1799		1.766823	
3	3	11	78.1	1945	1065	2.477353	
4	2	11	72.4	1745		3.581058	
5	2	11	51.1	1815		4.228105	
6	2	11	65.4	1300		5.202306	
7	3	11	73.7	1079	1400	6.186427	
8	2	11	67.3	1196		7.040327	
9	2	11	93.4	1396		7.928682	
10	3	11	78.4	1788	1445	8.780611	
11	2	11	77.6	1472		9.187074	
12	2	11	65.2	1529		9.651651	
13	2	11	84.3	1198		10.599423	
14	2	11	74.0	1665		11.780682	

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	10	59.3			0.892458	1
1	3	10	89.4	1507	1014	2.927942	
2	2	10	53.5	1730		3.726430	
3	3	10	72.0	1069	1679	4.685502	
4	1	10	99.4			6.165109	
5	2	10	71.6	1151		8.168383	
6	1	10	79.8			9.197204	
7	2	10	69.0	1926		11.094907	

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	9	54.3			0.139449	1
1	2	9	54.5	1295		1.498831	
2	2	9	54.1	1951		2.858354	
3	2	9	93.2	1072		4.669658	
4	2	9	67.5	1207		5.392763	
5	3	9	64.3	1220	1602	6.900677	
6	3	9	96.8	1238	1611	8.730944	
7	1	9	75.8			10.032369	
8	3	9	73.9	1555	1686	11.061180	

Bin5 Statistics 7

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	5	52.3	1613		0.023228	1
1	2	5	93.3	1847		1.936118	
2	3	5	81.8	1481	1728	3.206222	
3	3	5	72.4	1562	1136	3.709679	
4	2	5	85.5	1067		5.244897	
5	3	5	81.3	1479	1675	6.488784	
6	2	5	92.1	1977		7.944250	
7	1	5	68.7			8.470847	
8	3	5	66.9	1105	1140	9.725405	
9	2	5	50.4	1293		11.588406	

Bin5 Statistics 8

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	15	84.7	1191		0.615968	1
1	2	15	85.3	1413		1.688551	
2	1	15	99.9			2.153924	
3	2	15	81.7	1127		3.120872	
4	2	15	61.2	1192		4.196887	
5	3	15	72.7	1676	1331	5.379624	
6	2	15	67.8	1866		6.047979	
7	2	15	91.2	1350		7.793513	
8	2	15	90.9	1102		8.900362	
9	2	15	99.8	1243		9.582116	
10	3	15	83.9	1611	1671	10.478510	
11	2	15	60.8	1125		11.869782	

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	63.0	1500		0.514358	1
1	3	7	71.0	1157	1234	0.891301	
2	2	7	59.2	1708		1.618293	
3	1	7	74.3			2.547377	
4	1	7	54.8			3.828572	
5	1	7	69.5			4.328186	
6	2	7	85.8	1395		5.067161	
7	2	7	54.1	1714		6.285763	
8	3	7	78.2	1708	1370	7.178025	
9	2	7	61.3	1495		7.811128	
10	2	7	90.5	1686		8.152245	
11	2	7	55.4	1941		9.026858	
12	3	7	82.0	1252	1757	9.870081	
13	2	7	58.0	1802		10.653827	
14	3	7	88.3	1519	1830	11.895565	

Bin5 Statistics 10

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	15	60.3	1774		0.865196	1
1	2	15	93.7	1097		1.412350	
2	2	15	92.1	1798		3.577471	
3	1	15	90.2			5.041044	
4	3	15	67.5	1154	1872	6.621752	
5	1	15	88.0			7.218775	
6	2	15	81.6	1476		8.017971	
7	1	15	80.7			10.649807	
8	3	15	98.8	1885	1730	11.943411	

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	15	78.1			0.518418	1
1	1	15	60.7			1.230941	
2	3	15	93.8	1775	1270	1.549959	
3	2	15	62.2	1442		2.455491	
4	1	15	63.1			3.463080	
5	1	15	60.9			4.184631	
6	2	15	75.9	1683		4.864261	
7	1	15	88.1			5.667671	
8	2	15	53.7	1915		6.368579	
9	1	15	60.6			7.295523	
10	2	15	75.2	1367		7.977462	
11	2	15	78.8	1445		8.848051	
12	2	15	50.4	1993		9.260420	
13	2	15	80.9	1677		10.310743	
14	1	15	83.7			10.819059	
15	1	15	76.7			11.770678	

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	12	62.5	1560	1189	0.737480	1
1	2	12	64.7	1726		1.294726	
2	1	12	88.5			2.892927	
3	2	12	51.8	1672		3.686815	
4	2	12	92.1	1784		4.401630	
5	2	12	57.2	1085		5.486977	
6	2	12	65.3	1422		6.796703	
7	1	12	78.9			7.788111	
8	2	12	92.2	1537		8.227559	
9	2	12	60.5	1031		9.788684	
10	2	12	69.4	1200		10.540924	
11	2	12	83.8	1040		11.964292	

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	53.7			0.442766	1
1	1	20	98.9			1.297630	
2	2	20	51.7	1932		1.341773	
3	2	20	84.6	1019		2.330135	
4	1	20	82.9			2.924153	
5	1	20	99.9			3.644716	
6	2	20	85.0	1135		4.028543	
7	1	20	68.3			5.114382	
8	1	20	96.2			5.996805	
9	2	20	68.7	1313		6.468260	
10	1	20	51.0			7.089596	
11	2	20	70.6	1108		7.686352	
12	3	20	73.1	1668	1797	8.076022	
13	2	20	63.8	1578		8.913833	
14	3	20	64.9	1352	1190	9.954902	
15	3	20	76.3	1363	1166	10.207596	
16	2	20	81.4	1634		11.299445	
17	3	20	98.8	1100	1724	11.431531	

Bin5 Statistics 14

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	11	96.5	1313		0.198547	1
1	1	11	84.4			1.735882	
2	3	11	63.0	1161	1467	2.785696	
3	2	11	51.3	1690		4.036968	
4	1	11	86.7			5.213507	
5	2	11	66.8	1149		6.461070	
6	2	11	86.7	1576		7.593039	
7	2	11	89.0	1609		8.007770	
8	2	11	84.9	1143		9.505346	
9	3	11	57.9	1637	1713	10.482097	
10	2	11	54.6	1245		11.784450	

Bin5 Statistics 15

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	9	63.4	1367	1278	0.217364	1
1	2	9	85.4	1760		1.165635	
2	2	9	74.8	1010		1.716341	
3	2	9	70.1	1977		2.186348	
4	2	9	88.4	1410		2.796154	
5	2	9	55.8	1274		3.648584	
6	2	9	68.5	1465		3.927837	
7	3	9	56.3	1262	1207	4.612849	
8	2	9	72.2	1391		5.514611	
9	3	9	86.2	1209	1256	5.752939	
10	3	9	84.1	1173	1574	6.860368	
11	3	9	86.7	1025	1437	6.953263	
12	3	9	90.0	1906	1035	8.198874	
13	1	9	95.8			8.297342	
14	2	9	62.9	1808		9.318462	
15	2	9	88.3	1122		9.957028	
16	3	9	99.2	1285	1707	10.157184	
17	2	9	82.5	1423		11.268214	
18	1	9	78.1			11.964633	

Bin5 Statistics 16

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	14	64.1	1057	1175	0.601109	1
1	1	14	85.5			1.028804	
2	2	14	66.8	1758		1.660881	
3	2	14	54.9	1123		2.245011	
4	1	14	73.7			3.507427	
5	2	14	51.3	1444		4.010782	
6	2	14	53.8	1308		4.733663	
7	1	14	79.2			4.961727	
8	2	14	55.9	1320		6.167755	
9	2	14	88.1	1536		6.736075	
10	2	14	95.7	1468		7.261850	
11	1	14	95.9			7.803493	
12	2	14	94.7	1716		8.623654	
13	3	14	98.7	1489	1705	9.419591	
14	2	14	70.1	1288		10.417668	
15	2	14	92.5	1066		11.013590	
16	1	14	85.5			11.632825	

Bin5 Statistics 17

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	19	63.8			0.630654	1
1	1	19	60.2			0.917317	
2	3	19	64.6	1783	1312	1.897465	
3	2	19	54.5	1813		2.371167	
4	3	19	59.2	1388	1230	3.038420	
5	2	19	78.6	1754		3.831604	
6	1	19	87.2			4.452383	
7	1	19	58.0			5.093005	
8	2	19	52.5	1069		5.917126	
9	3	19	87.0	1929	1340	6.662981	
10	1	19	66.9			7.664107	
11	2	19	68.9	1033		7.816900	
12	2	19	74.8	1183		9.109497	
13	3	19	89.9	1533	1328	9.680797	
14	1	19	97.8			10.005527	
15	1	19	81.5			10.646516	
16	3	19	66.0	1462	1390	11.565155	

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	17	55.8			0.201548	1
1	3	17	61.9	1643	1608	1.305289	
2	2	17	64.0	1152		2.768878	
3	2	17	75.2	1677		3.102996	
4	1	17	99.6			4.566462	
5	2	17	55.7	1828		5.508014	
6	1	17	90.8			6.495777	
7	3	17	88.7	1753	1991	7.696801	
8	1	17	68.6			8.560089	
9	2	17	54.6	1096		9.794949	
10	2	17	56.8	1936		10.330690	
11	3	17	74.2	1048	1654	11.603036	

Bin5 Statistics 19

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	12	76.7			0.860670	1
1	3	12	83.3	1437	1503	1.967311	
2	2	12	73.5	1013		2.554566	
3	3	12	79.3	1908	1926	4.126327	
4	1	12	52.9			5.071433	
5	2	12	73.0	1700		6.865276	
6	2	12	90.0	1678		8.061274	
7	1	12	58.4			9.106108	
8	2	12	87.1	1842		9.679482	
9	3	12	93.5	1931	1302	11.390446	

Bin5 Statistics 20

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	6	77.7	1695		0.674761	1
1	3	6	55.2	1184	1477	1.573583	
2	3	6	68.9	1693	1293	2.609751	
3	1	6	88.9			4.127557	
4	1	6	79.1			5.427473	
5	2	6	97.8	1866		6.268161	
6	2	6	72.8	1249		8.151307	
7	2	6	58.6	1932		8.701770	
8	2	6	56.1	1529		10.468029	
9	1	6	62.5			11.441196	

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	13	52.2			0.342147	1
1	2	13	69.7	1650		1.304585	
2	1	13	82.7			1.983078	
3	3	13	92.7	1564	1984	2.687316	
4	2	13	67.1	1577		3.471463	
5	2	13	94.9	1022		4.445011	
6	2	13	55.2	1637		5.092454	
7	1	13	90.0			5.503943	
8	2	13	72.8	1424		6.431032	
9	2	13	65.8	1923		6.806412	
10	2	13	81.8	1319		7.936715	
11	2	13	67.2	1338		8.992064	
12	3	13	69.4	1281	1029	9.115083	
13	2	13	69.1	1585		10.448925	
14	2	13	85.6	1211		11.024596	
15	2	13	86.3	1190		11.984784	

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	15	59.1			1.070338	1
1	2	15	87.3	1324		1.631828	
2	3	15	53.7	1694	1825	3.246013	
3	2	15	99.8	1597		4.107045	
4	3	15	52.6	1422	1241	4.818603	
5	1	15	65.9			6.742026	
6	2	15	50.4	1507		7.554564	
7	1	15	91.5			8.610118	
8	1	15	57.7			10.113881	
9	1	15	80.3			11.995380	

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	20	96.7			0.377120	1
1	2	20	80.2	1075		0.776139	
2	2	20	97.5	1295		1.474924	
3	2	20	70.1	1369		2.646136	
4	2	20	99.9	1779		3.246201	
5	2	20	71.6	1728		4.025559	
6	2	20	60.4	1267		4.844783	
7	2	20	74.9	1088		5.144634	
8	1	20	83.7			5.968138	
9	1	20	73.2			6.734314	
10	2	20	71.5	1993		7.467833	
11	2	20	68.6	1818		7.825945	
12	2	20	70.8	1035		8.960843	
13	2	20	52.7	1784		9.339169	
14	3	20	97.2	1191	1037	9.920111	
15	1	20	89.3			10.891624	
16	2	20	99.6	1111		11.864678	

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	14	71.1	1537	1644	0.376522	1
1	2	14	53.3	1654		1.117278	
2	2	14	86.0	1187		1.694788	
3	3	14	93.9	1895	1734	2.285694	
4	3	14	97.1	1295	1034	2.405961	
5	1	14	61.8			3.523400	
6	2	14	83.0	1730		3.618414	
7	2	14	52.8	1718		4.594416	
8	3	14	99.2	1918	1762	5.222970	
9	1	14	59.2			5.860646	
10	2	14	80.9	1101		6.056509	
11	3	14	71.9	1404	1549	6.611473	
12	2	14	50.8	1812		7.232418	
13	3	14	68.6	1635	1529	8.251770	
14	1	14	90.0			8.832948	
15	3	14	59.3	1886	1532	9.256588	
16	2	14	74.9	1561		10.036656	
17	3	14	92.7	1737	1826	10.367530	
18	1	14	53.5			11.284256	
19	1	14	63.6			11.450078	

Bin5 Statistics 25

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	8	90.4	1456	1944	0.746711	0
1	3	8	53.2	1691	1606	1.135961	
2	3	8	52.8	1249	1783	1.920463	
3	1	8	75.9			2.935058	
4	1	8	99.1			4.066861	
5	2	8	98.3	1177		5.024831	
6	2	8	76.7	1255		5.213421	
7	3	8	72.6	1241	1017	6.168754	
8	3	8	75.8	1239	1568	7.414638	
9	2	8	75.2	1662		8.293982	
10	2	8	66.5	1003		9.141264	
11	3	8	86.2	1659	1723	10.019431	
12	2	8	90.3	1216		10.580056	
13	2	8	87.1	1837		11.670328	

Bin5 Statistics 26

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	12	68.6	1247		0.934473	1
1	2	12	69.5	1612		1.455387	
2	3	12	84.7	1637	1832	3.429596	
3	2	12	73.6	1692		4.855597	
4	2	12	73.2	1412		5.763305	
5	2	12	65.1	1558		7.193928	
6	3	12	71.3	1422	1848	9.109913	
7	1	12	65.4			9.427062	
8	3	12	54.7	1260	1395	11.445870	

Bin5 Statistics 27

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	14	96.1	1117	1350	0.435189	1
1	2	14	73.9	1419		1.288601	
2	2	14	88.3	1838		1.828204	
3	2	14	58.6	1672		3.309827	
4	1	14	63.5			3.606157	
5	2	14	81.2	1582		4.743365	
6	3	14	65.2	1609	1759	5.760647	
7	1	14	91.1			6.173274	
8	2	14	77.9	1874		7.158472	
9	1	14	55.6			8.154953	
10	2	14	81.0	1096		9.233553	
11	3	14	69.2	1416	1050	10.188160	
12	2	14	56.0	1931		10.857389	
13	3	14	88.3	1396	1333	11.771448	

Bin5 Statistics 28

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	15	93.3			0.158972	1
1	1	15	94.4			0.949486	
2	1	15	81.8			1.874623	
3	1	15	97.7			2.987131	
4	2	15	73.1	1995		4.477458	
5	3	15	85.6	1627	1077	5.326598	
6	2	15	53.9	1048		5.830129	
7	1	15	90.9			7.296481	
8	1	15	93.7			7.907446	
9	1	15	88.6			8.997956	
10	3	15	77.3	1851	1062	9.334471	
11	1	15	62.7			10.402356	
12	2	15	56.1	1837		11.980252	

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	17	87.7			0.070286	1
1	3	17	89.6	1559	1026	0.810448	
2	2	17	94.5	1705		1.799248	
3	3	17	96.3	1160	1610	2.805477	
4	2	17	58.0	1878		2.851102	
5	2	17	58.8	1473		3.918862	
6	2	17	53.6	1741		4.845204	
7	3	17	86.2	1533	1940	5.578116	
8	2	17	60.5	1953		6.147870	
9	2	17	58.7	1646		6.935567	
10	2	17	66.5	1867		7.183058	
11	2	17	69.1	1699		8.065991	
12	1	17	79.0			9.003778	
13	2	17	56.3	1273		9.871825	
14	2	17	80.3	1667		10.394034	
15	2	17	53.0	1934		10.989287	
16	1	17	67.5			11.916451	

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	5	54.8	1914		0.042935	0
1	3	5	64.6	1934	1438	1.154535	
2	2	5	72.8	1815		1.618001	
3	2	5	72.8	1267		2.466623	
4	2	5	72.6	1061		2.957489	
5	2	5	96.8	1287		3.180608	
6	2	5	53.6	1770		4.408617	
7	2	5	58.7	1419		4.928322	
8	3	5	52.1	1908	1913	5.619313	
9	2	5	99.0	1822		6.304373	
10	2	5	86.8	1297		6.403466	
11	3	5	68.7	1721	1902	7.350259	
12	2	5	63.7	1055		7.918466	
13	2	5	51.0	1136		8.292198	
14	2	5	83.0	1170		9.033488	
15	2	5	94.1	1383		9.774445	
16	2	5	87.0	1574		10.679368	
17	2	5	75.4	1224		11.113530	
18	1	5	60.9			11.785678	

Table-6 Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)	Hopping Sequence
1	5530.0	9	1.0	333	1	5520.0, 5584.0, 5647.0, 5360.0, 5659.0, 5663.0, 5352.0, 5331.0, 5617.0, 5564.0, 5255.0, 5330.0, 5614.0, 5321.0, 5337.0, 5440.0, 5545.0, 5529.0, 5644.0, 5620.0, 5590.0, 5675.0, 5439.0, 5421.0, 5350.0, 5500.0, 5307.0, 5515.0, 5260.0, 5342.0, 5339.0, 5429.0, 5692.0, 5494.0, 5580.0, 5398.0, 5408.0, 5354.0, 5402.0, 5284.0, 5485.0, 5537.0, 5636.0, 5551.0, 5316.0, 5501.0, 5310.0, 5524.0, 5505.0, 5600.0, 5348.0, 5281.0, 5320.0, 5683.0, 5377.0, 5359.0, 5364.0, 5687.0, 5523.0, 5514.0, 5327.0, 5431.0, 5569.0, 5530.0, 5680.0, 5430.0, 5691.0, 5404.0, 5702.0, 5351.0, 5587.0, 5275.0, 5628.0, 5554.0, 5637.0, 5528.0, 5297.0, 5365.0, 5679.0, 5632.0, 5345.0, 5253.0, 5250.0, 5651.0, 5409.0, 5358.0, 5619.0, 5512.0, 5487.0, 5403.0, 5452.0, 5696.0, 5668.0, 5423.0, 5458.0, 5387.0, 5372.0, 5575.0, 5689.0, 5383.0 (number of hits: 18)
2	5530.0	9	1.0	333	1	5429.0, 5262.0, 5275.0, 5633.0, 5704.0, 5678.0, 5669.0, 5386.0, 5517.0, 5439.0, 5356.0, 5312.0, 5437.0, 5474.0, 5575.0, 5412.0, 5666.0, 5657.0, 5599.0, 5456.0, 5572.0, 5274.0, 5547.0, 5350.0, 5640.0, 5502.0, 5316.0, 5554.0, 5430.0, 5631.0, 5410.0, 5536.0, 5692.0, 5465.0, 5454.0, 5259.0, 5545.0, 5587.0, 5342.0, 5367.0, 5411.0, 5577.0, 5277.0, 5648.0, 5700.0, 5294.0, 5480.0, 5423.0, 5532.0, 5695.0, 5589.0, 5428.0, 5525.0, 5555.0, 5457.0, 5476.0, 5524.0, 5397.0, 5462.0, 5483.0, 5710.0, 5546.0, 5420.0, 5670.0, 5506.0, 5707.0, 5256.0, 5442.0, 5662.0, 5507.0, 5427.0, 5688.0, 5718.0, 5522.0, 5531.0, 5334.0, 5320.0, 5392.0, 5459.0, 5611.0, 5464.0, 5579.0, 5556.0, 5306.0, 5289.0, 5565.0, 5510.0, 5422.0, 5650.0, 5675.0, 5712.0, 5713.0, 5567.0, 5676.0, 5414.0, 5685.0, 5557.0, 5635.0, 5490.0, 5503.0 (number of hits: 20)
3	5530.0	9	1.0	333	1	5494.0, 5698.0, 5371.0, 5299.0, 5593.0, 5683.0, 5646.0, 5548.0, 5588.0, 5582.0, 5499.0, 5472.0, 5364.0, 5594.0, 5676.0, 5699.0, 5509.0, 5444.0, 5460.0, 5678.0, 5445.0, 5692.0, 5482.0, 5273.0, 5628.0, 5469.0, 5465.0, 5566.0, 5457.0, 5697.0, 5339.0, 5511.0, 5574.0, 5670.0, 5568.0, 5596.0, 5647.0, 5325.0, 5256.0, 5390.0, 5416.0, 5421.0, 5362.0, 5356.0, 5346.0, 5540.0, 5292.0, 5447.0, 5615.0, 5481.0, 5639.0, 5266.0, 5281.0, 5516.0, 5524.0, 5359.0, 5617.0, 5651.0, 5515.0, 5489.0, 5255.0, 5720.0, 5618.0, 5259.0, 5680.0

						5530.0, 5723.0, 5257.0, 5463.0, 5638.0, 5589.0, 5405.0, 5622.0, 5573.0, 5385.0, 5473.0, 5527.0, 5666.0, 5368.0, 5301.0, 5428.0, 5379.0, 5606.0, 5605.0, 5370.0, 5338.0, 5305.0, 5584.0, 5314.0, 5536.0, 5687.0, 5306.0, 5495.0, 5514.0, 5695.0, 5659.0, 5296.0, 5537.0, 5711.0, 5595.0 (number of hits: 16)
4	5530.0	9	1.0	333	1	5393.0, 5324.0, 5537.0, 5367.0, 5657.0, 5452.0, 5417.0, 5585.0, 5550.0, 5650.0, 5691.0, 5542.0, 5272.0, 5701.0, 5455.0, 5289.0, 5634.0, 5311.0, 5702.0, 5581.0, 5263.0, 5489.0, 5713.0, 5669.0, 5699.0, 5552.0, 5706.0, 5709.0, 5708.0, 5318.0, 5676.0, 5631.0, 5589.0, 5548.0, 5282.0, 5280.0, 5505.0, 5254.0, 5308.0, 5390.0, 5277.0, 5361.0, 5544.0, 5331.0, 5315.0, 5347.0, 5326.0, 5267.0, 5559.0, 5279.0, 5497.0, 5253.0, 5532.0, 5525.0, 5334.0, 5471.0, 5413.0, 5527.0, 5515.0, 5512.0, 5635.0, 5269.0, 5257.0, 5327.0, 5618.0, 5513.0, 5295.0, 5256.0, 5461.0, 5251.0, 5314.0, 5615.0, 5565.0, 5457.0, 5612.0, 5441.0, 5294.0, 5484.0, 5553.0, 5590.0, 5410.0, 5340.0, 5594.0, 5285.0, 5310.0, 5643.0, 5632.0, 5425.0, 5344.0, 5283.0, 5693.0, 5724.0, 5605.0, 5338.0, 5365.0, 5690.0, 5460.0, 5402.0, 5674.0, 5610.0 (number of hits: 17)
5	5530.0	9	1.0	333	1	5509.0, 5333.0, 5373.0, 5282.0, 5647.0, 5547.0, 5670.0, 5398.0, 5338.0, 5325.0, 5705.0, 5383.0, 5499.0, 5255.0, 5474.0, 5453.0, 5468.0, 5674.0, 5637.0, 5369.0, 5667.0, 5648.0, 5279.0, 5313.0, 5425.0, 5345.0, 5609.0, 5681.0, 5263.0, 5476.0, 5479.0, 5564.0, 5266.0, 5434.0, 5565.0, 5633.0, 5309.0, 5720.0, 5646.0, 5569.0, 5274.0, 5342.0, 5350.0, 5622.0, 5445.0, 5701.0, 5477.0, 5267.0, 5378.0, 5379.0, 5429.0, 5385.0, 5431.0, 5572.0, 5611.0, 5626.0, 5446.0, 5686.0, 5714.0, 5690.0, 5713.0, 5311.0, 5592.0, 5522.0, 5285.0, 5682.0, 5327.0, 5556.0, 5473.0, 5433.0, 5702.0, 5558.0, 5292.0, 5423.0, 5573.0, 5451.0, 5508.0, 5634.0, 5566.0, 5515.0, 5324.0, 5424.0, 5687.0, 5409.0, 5455.0, 5404.0, 5465.0, 5629.0, 5315.0, 5628.0, 5320.0, 5471.0, 5570.0, 5253.0, 5387.0, 5366.0, 5469.0, 5529.0, 5413.0, 5358.0 (number of hits: 12)
6	5530.0	9	1.0	333	1	5520.0, 5712.0, 5295.0, 5459.0, 5440.0, 5344.0, 5317.0, 5569.0, 5411.0, 5412.0, 5434.0, 5628.0, 5592.0, 5265.0, 5480.0, 5389.0, 5405.0, 5308.0, 5457.0, 5652.0, 5536.0, 5521.0, 5671.0, 5524.0, 5617.0, 5311.0, 5260.0, 5460.0, 5340.0, 5403.0, 5281.0, 5450.0, 5702.0, 5261.0, 5343.0, 5328.0, 5568.0, 5468.0, 5582.0, 5425.0, 5371.0, 5594.0, 5674.0, 5285.0, 5323.0, 5578.0, 5545.0, 5397.0, 5314.0, 5542.0, 5668.0, 5330.0, 5563.0, 5556.0, 5447.0

						5342.0, 5490.0, 5266.0, 5482.0, 5644.0, 5484.0, 5687.0, 5469.0, 5375.0, 5518.0, 5703.0, 5709.0, 5262.0, 5291.0, 5259.0, 5349.0, 5364.0, 5303.0, 5530.0, 5479.0, 5446.0, 5309.0, 5466.0, 5516.0, 5554.0, 5661.0, 5718.0, 5722.0, 5565.0, 5358.0, 5366.0, 5721.0, 5321.0, 5637.0, 5663.0, 5432.0, 5640.0, 5313.0, 5649.0, 5665.0, 5267.0, 5669.0, 5675.0, 5274.0, 5611.0 (number of hits: 13)
7	5530.0	9	1.0	333	1	5632.0, 5416.0, 5652.0, 5425.0, 5396.0, 5570.0, 5479.0, 5719.0, 5405.0, 5675.0, 5453.0, 5709.0, 5617.0, 5343.0, 5634.0, 5367.0, 5501.0, 5272.0, 5369.0, 5252.0, 5394.0, 5349.0, 5717.0, 5553.0, 5659.0, 5456.0, 5715.0, 5279.0, 5559.0, 5332.0, 5666.0, 5512.0, 5515.0, 5695.0, 5592.0, 5300.0, 5482.0, 5510.0, 5308.0, 5277.0, 5296.0, 5662.0, 5338.0, 5454.0, 5330.0, 5450.0, 5319.0, 5586.0, 5299.0, 5295.0, 5646.0, 5583.0, 5455.0, 5253.0, 5699.0, 5464.0, 5623.0, 5294.0, 5409.0, 5415.0, 5493.0, 5355.0, 5660.0, 5723.0, 5259.0, 5635.0, 5433.0, 5452.0, 5605.0, 5263.0, 5584.0, 5368.0, 5550.0, 5683.0, 5577.0, 5379.0, 5513.0, 5325.0, 5419.0, 5523.0, 5290.0, 5378.0, 5587.0, 5382.0, 5432.0, 5470.0, 5582.0, 5404.0, 5400.0, 5500.0, 5568.0, 5608.0, 5613.0, 5522.0, 5571.0, 5496.0, 5514.0, 5663.0, 5428.0, 5648.0 (number of hits: 14)
8	5530.0	9	1.0	333	1	5492.0, 5602.0, 5719.0, 5297.0, 5431.0, 5412.0, 5357.0, 5309.0, 5639.0, 5291.0, 5538.0, 5617.0, 5295.0, 5618.0, 5409.0, 5463.0, 5342.0, 5386.0, 5721.0, 5532.0, 5534.0, 5315.0, 5462.0, 5662.0, 5527.0, 5437.0, 5406.0, 5610.0, 5283.0, 5445.0, 5633.0, 5350.0, 5714.0, 5524.0, 5716.0, 5623.0, 5650.0, 5590.0, 5317.0, 5263.0, 5510.0, 5521.0, 5347.0, 5394.0, 5382.0, 5340.0, 5647.0, 5686.0, 5373.0, 5458.0, 5500.0, 5368.0, 5341.0, 5262.0, 5494.0, 5612.0, 5338.0, 5579.0, 5703.0, 5319.0, 5720.0, 5523.0, 5710.0, 5439.0, 5322.0, 5593.0, 5292.0, 5533.0, 5558.0, 5367.0, 5438.0, 5273.0, 5387.0, 5301.0, 5464.0, 5326.0, 5288.0, 5541.0, 5679.0, 5493.0, 5400.0, 5370.0, 5676.0, 5432.0, 5567.0, 5575.0, 5687.0, 5605.0, 5294.0, 5467.0, 5369.0, 5483.0, 5514.0, 5711.0, 5385.0, 5428.0, 5389.0, 5336.0, 5677.0, 5430.0 (number of hits: 15)
9	5530.0	9	1.0	333	1	5320.0, 5555.0, 5400.0, 5528.0, 5598.0, 5388.0, 5394.0, 5441.0, 5372.0, 5370.0, 5385.0, 5678.0, 5404.0, 5654.0, 5318.0, 5648.0, 5693.0, 5592.0, 5348.0, 5347.0, 5445.0, 5319.0, 5566.0, 5497.0, 5453.0, 5538.0, 5287.0, 5605.0, 5677.0, 5332.0, 5285.0, 5690.0, 5481.0, 5377.0, 5550.0, 5284.0, 5265.0, 5609.0, 5479.0, 5338.0, 5530.0, 5478.0, 5276.0, 5674.0, 5669.0

						5472.0, 5552.0, 5569.0, 5253.0, 5689.0, 5621.0, 5624.0, 5409.0, 5675.0, 5722.0, 5553.0, 5292.0, 5488.0, 5450.0, 5381.0, 5541.0, 5427.0, 5431.0, 5629.0, 5395.0, 5720.0, 5524.0, 5532.0, 5615.0, 5300.0, 5607.0, 5333.0, 5443.0, 5270.0, 5434.0, 5484.0, 5714.0, 5391.0, 5713.0, 5272.0, 5576.0, 5322.0, 5650.0, 5721.0, 5468.0, 5655.0, 5622.0, 5554.0, 5399.0, 5575.0, 5306.0, 5668.0, 5516.0, 5267.0, 5653.0, 5699.0, 5354.0, 5715.0, 5389.0, 5263.0 (number of hits: 14)
10	5530.0	9	1.0	333	1	5376.0, 5523.0, 5322.0, 5533.0, 5598.0, 5667.0, 5437.0, 5259.0, 5675.0, 5347.0, 5674.0, 5304.0, 5692.0, 5300.0, 5359.0, 5645.0, 5302.0, 5314.0, 5574.0, 5431.0, 5515.0, 5461.0, 5590.0, 5483.0, 5681.0, 5720.0, 5514.0, 5610.0, 5500.0, 5473.0, 5630.0, 5607.0, 5651.0, 5441.0, 5661.0, 5629.0, 5513.0, 5308.0, 5487.0, 5311.0, 5519.0, 5573.0, 5310.0, 5688.0, 5717.0, 5395.0, 5303.0, 5317.0, 5567.0, 5577.0, 5294.0, 5628.0, 5467.0, 5440.0, 5415.0, 5595.0, 5662.0, 5679.0, 5352.0, 5422.0, 5540.0, 5648.0, 5342.0, 5559.0, 5511.0, 5471.0, 5508.0, 5255.0, 5572.0, 5691.0, 5474.0, 5496.0, 5586.0, 5349.0, 5296.0, 5281.0, 5589.0, 5631.0, 5637.0, 5253.0, 5557.0, 5524.0, 5613.0, 5315.0, 5343.0, 5525.0, 5673.0, 5709.0, 5477.0, 5503.0, 5700.0, 5387.0, 5635.0, 5505.0, 5712.0, 5272.0, 5497.0, 5602.0, 5295.0, 5278.0 (number of hits: 18)
11	5530.0	9	1.0	333	1	5672.0, 5610.0, 5651.0, 5663.0, 5560.0, 5713.0, 5391.0, 5300.0, 5376.0, 5303.0, 5322.0, 5681.0, 5354.0, 5269.0, 5515.0, 5595.0, 5463.0, 5357.0, 5615.0, 5287.0, 5387.0, 5690.0, 5532.0, 5613.0, 5353.0, 5686.0, 5326.0, 5696.0, 5444.0, 5333.0, 5364.0, 5699.0, 5435.0, 5572.0, 5600.0, 5541.0, 5709.0, 5674.0, 5486.0, 5648.0, 5544.0, 5693.0, 5511.0, 5677.0, 5691.0, 5351.0, 5661.0, 5526.0, 5292.0, 5493.0, 5271.0, 5453.0, 5345.0, 5655.0, 5637.0, 5602.0, 5481.0, 5341.0, 5635.0, 5309.0, 5650.0, 5494.0, 5588.0, 5394.0, 5505.0, 5433.0, 5457.0, 5306.0, 5360.0, 5694.0, 5438.0, 5587.0, 5460.0, 5343.0, 5395.0, 5720.0, 5408.0, 5578.0, 5575.0, 5571.0, 5703.0, 5432.0, 5413.0, 5680.0, 5468.0, 5563.0, 5512.0, 5467.0, 5611.0, 5621.0, 5688.0, 5279.0, 5324.0, 5583.0, 5667.0, 5529.0, 5707.0, 5599.0, 5301.0, 5367.0 (number of hits: 13)
12	5530.0	9	1.0	333	1	5613.0, 5615.0, 5355.0, 5448.0, 5445.0, 5581.0, 5558.0, 5391.0, 5399.0, 5637.0, 5398.0, 5514.0, 5688.0, 5616.0, 5513.0, 5291.0, 5628.0, 5610.0, 5319.0, 5577.0, 5477.0, 5545.0, 5532.0, 5599.0, 5617.0, 5302.0, 5703.0, 5287.0, 5324.0, 5483.0, 5396.0, 5527.0, 5608.0, 5363.0, 5693.0,

						5387.0, 5523.0, 5390.0, 5464.0, 5356.0, 5559.0, 5386.0, 5473.0, 5597.0, 5455.0, 5378.0, 5389.0, 5293.0, 5317.0, 5531.0, 5619.0, 5393.0, 5496.0, 5301.0, 5422.0, 5459.0, 5591.0, 5668.0, 5699.0, 5284.0, 5470.0, 5251.0, 5561.0, 5487.0, 5413.0, 5262.0, 5285.0, 5283.0, 5723.0, 5331.0, 5409.0, 5469.0, 5303.0, 5510.0, 5475.0, 5380.0, 5697.0, 5276.0, 5327.0, 5620.0, 5504.0, 5441.0, 5289.0, 5439.0, 5714.0, 5534.0, 5689.0, 5573.0, 5345.0, 5667.0, 5484.0, 5256.0, 5421.0, 5656.0, 5271.0, 5275.0, 5330.0, 5553.0, 5713.0, 5282.0 (number of hits: 15)
13	5530.0	9	1.0	333	1	5681.0, 5306.0, 5568.0, 5311.0, 5293.0, 5252.0, 5694.0, 5492.0, 5685.0, 5715.0, 5387.0, 5487.0, 5619.0, 5594.0, 5703.0, 5265.0, 5421.0, 5316.0, 5292.0, 5714.0, 5548.0, 5439.0, 5302.0, 5437.0, 5378.0, 5580.0, 5546.0, 5587.0, 5423.0, 5340.0, 5645.0, 5384.0, 5444.0, 5380.0, 5522.0, 5424.0, 5286.0, 5497.0, 5313.0, 5541.0, 5702.0, 5517.0, 5672.0, 5607.0, 5436.0, 5398.0, 5418.0, 5273.0, 5339.0, 5470.0, 5422.0, 5481.0, 5266.0, 5642.0, 5585.0, 5447.0, 5300.0, 5610.0, 5467.0, 5338.0, 5389.0, 5345.0, 5529.0, 5277.0, 5588.0, 5321.0, 5674.0, 5530.0, 5383.0, 5533.0, 5412.0, 5544.0, 5465.0, 5637.0, 5651.0, 5438.0, 5493.0, 5526.0, 5346.0, 5603.0, 5719.0, 5315.0, 5479.0, 5711.0, 5690.0, 5663.0, 5259.0, 5405.0, 5684.0, 5575.0, 5261.0, 5430.0, 5515.0, 5636.0, 5482.0, 5614.0, 5369.0, 5320.0, 5655.0, 5649.0 (number of hits: 13)
14	5530.0	9	1.0	333	1	5618.0, 5699.0, 5330.0, 5544.0, 5574.0, 5300.0, 5276.0, 5708.0, 5403.0, 5423.0, 5646.0, 5277.0, 5616.0, 5271.0, 5641.0, 5415.0, 5288.0, 5254.0, 5361.0, 5443.0, 5499.0, 5428.0, 5631.0, 5466.0, 5601.0, 5446.0, 5540.0, 5629.0, 5650.0, 5302.0, 5648.0, 5661.0, 5341.0, 5567.0, 5503.0, 5659.0, 5619.0, 5638.0, 5316.0, 5425.0, 5543.0, 5261.0, 5557.0, 5529.0, 5463.0, 5363.0, 5518.0, 5354.0, 5655.0, 5533.0, 5604.0, 5539.0, 5424.0, 5289.0, 5506.0, 5535.0, 5560.0, 5340.0, 5548.0, 5350.0, 5375.0, 5304.0, 5292.0, 5485.0, 5459.0, 5581.0, 5326.0, 5303.0, 5607.0, 5465.0, 5595.0, 5562.0, 5528.0, 5442.0, 5294.0, 5253.0, 5701.0, 5622.0, 5469.0, 5487.0, 5613.0, 5687.0, 5274.0, 5724.0, 5505.0, 5689.0, 5427.0, 5440.0, 5381.0, 5310.0, 5390.0, 5621.0, 5494.0, 5568.0, 5610.0, 5286.0, 5711.0, 5519.0, 5656.0, 5583.0 (number of hits: 19)
15	5530.0	9	1.0	333	1	5294.0, 5520.0, 5318.0, 5376.0, 5523.0, 5451.0, 5331.0, 5495.0, 5583.0, 5282.0, 5474.0, 5717.0, 5410.0, 5515.0, 5475.0, 5299.0, 5536.0, 5614.0, 5335.0, 5322.0, 5452.0, 5314.0, 5396.0, 5655.0, 5291.0,

						5587.0, 5486.0, 5296.0, 5458.0, 5485.0, 5705.0, 5613.0, 5577.0, 5487.0, 5488.0, 5569.0, 5479.0, 5264.0, 5527.0, 5290.0, 5672.0, 5273.0, 5287.0, 5654.0, 5496.0, 5702.0, 5722.0, 5381.0, 5555.0, 5394.0, 5576.0, 5628.0, 5491.0, 5430.0, 5560.0, 5692.0, 5677.0, 5542.0, 5406.0, 5589.0, 5333.0, 5691.0, 5387.0, 5434.0, 5456.0, 5326.0, 5659.0, 5346.0, 5679.0, 5321.0, 5683.0, 5712.0, 5470.0, 5271.0, 5330.0, 5609.0, 5556.0, 5509.0, 5435.0, 5310.0, 5665.0, 5293.0, 5631.0, 5480.0, 5713.0, 5341.0, 5301.0, 5584.0, 5342.0, 5373.0, 5319.0, 5635.0, 5529.0, 5361.0, 5356.0, 5278.0, 5364.0, 5439.0, 5710.0, 5568.0 (number of hits: 13)
16	5530.0	9	1.0	333	1	5280.0, 5455.0, 5441.0, 5659.0, 5497.0, 5698.0, 5710.0, 5584.0, 5594.0, 5381.0, 5606.0, 5587.0, 5437.0, 5718.0, 5503.0, 5272.0, 5693.0, 5707.0, 5663.0, 5654.0, 5356.0, 5555.0, 5695.0, 5282.0, 5315.0, 5446.0, 5607.0, 5647.0, 5534.0, 5547.0, 5670.0, 5721.0, 5468.0, 5476.0, 5622.0, 5406.0, 5259.0, 5548.0, 5327.0, 5442.0, 5624.0, 5269.0, 5480.0, 5537.0, 5486.0, 5520.0, 5298.0, 5425.0, 5556.0, 5449.0, 5636.0, 5410.0, 5685.0, 5440.0, 5692.0, 5649.0, 5621.0, 5595.0, 5717.0, 5400.0, 5393.0, 5667.0, 5494.0, 5551.0, 5582.0, 5543.0, 5652.0, 5617.0, 5614.0, 5528.0, 5700.0, 5722.0, 5297.0, 5648.0, 5255.0, 5359.0, 5550.0, 5514.0, 5409.0, 5470.0, 5353.0, 5611.0, 5684.0, 5405.0, 5306.0, 5626.0, 5680.0, 5541.0, 5469.0, 5590.0, 5348.0, 5490.0, 5335.0, 5363.0, 5694.0, 5604.0, 5338.0, 5284.0, 5471.0, 5404.0 (number of hits: 16)
17	5530.0	9	1.0	333	1	5409.0, 5332.0, 5623.0, 5706.0, 5624.0, 5426.0, 5451.0, 5265.0, 5468.0, 5272.0, 5358.0, 5310.0, 5301.0, 5505.0, 5463.0, 5281.0, 5367.0, 5394.0, 5716.0, 5709.0, 5602.0, 5307.0, 5682.0, 5259.0, 5513.0, 5450.0, 5377.0, 5305.0, 5387.0, 5329.0, 5540.0, 5675.0, 5616.0, 5404.0, 5527.0, 5560.0, 5670.0, 5632.0, 5653.0, 5641.0, 5692.0, 5590.0, 5479.0, 5293.0, 5507.0, 5568.0, 5362.0, 5384.0, 5327.0, 5477.0, 5299.0, 5252.0, 5483.0, 5614.0, 5496.0, 5257.0, 5335.0, 5262.0, 5453.0, 5464.0, 5676.0, 5287.0, 5401.0, 5599.0, 5664.0, 5391.0, 5366.0, 5701.0, 5381.0, 5438.0, 5685.0, 5591.0, 5447.0, 5440.0, 5558.0, 5484.0, 5416.0, 5515.0, 5300.0, 5542.0, 5638.0, 5518.0, 5659.0, 5490.0, 5711.0, 5621.0, 5392.0, 5333.0, 5276.0, 5455.0, 5644.0, 5285.0, 5368.0, 5634.0, 5493.0, 5570.0, 5251.0, 5723.0, 5633.0, 5412.0 (number of hits: 12)
18	5530.0	9	1.0	333	1	5358.0, 5311.0, 5252.0, 5714.0, 5694.0, 5404.0, 5603.0, 5380.0, 5313.0, 5542.0, 5496.0, 5723.0, 5638.0, 5605.0, 5719.0,

						5445.0, 5529.0, 5526.0, 5606.0, 5712.0, 5403.0, 5301.0, 5282.0, 5637.0, 5366.0, 5520.0, 5523.0, 5692.0, 5302.0, 5386.0, 5330.0, 5670.0, 5444.0, 5474.0, 5718.0, 5320.0, 5344.0, 5562.0, 5555.0, 5258.0, 5476.0, 5640.0, 5295.0, 5644.0, 5405.0, 5715.0, 5689.0, 5437.0, 5319.0, 5277.0, 5414.0, 5269.0, 5607.0, 5538.0, 5709.0, 5666.0, 5683.0, 5385.0, 5505.0, 5642.0, 5679.0, 5393.0, 5721.0, 5541.0, 5420.0, 5361.0, 5408.0, 5417.0, 5535.0, 5410.0, 5531.0, 5332.0, 5421.0, 5580.0, 5594.0, 5469.0, 5563.0, 5362.0, 5697.0, 5317.0, 5480.0, 5416.0, 5322.0, 5688.0, 5448.0, 5275.0, 5657.0, 5389.0, 5566.0, 5276.0, 5495.0, 5425.0, 5722.0, 5422.0, 5490.0, 5678.0, 5510.0, 5634.0, 5545.0, 5287.0 (number of hits: 18)
19	5530.0	9	1.0	333	1	5296.0, 5508.0, 5553.0, 5686.0, 5562.0, 5463.0, 5449.0, 5620.0, 5645.0, 5377.0, 5412.0, 5324.0, 5317.0, 5411.0, 5360.0, 5432.0, 5265.0, 5351.0, 5585.0, 5438.0, 5455.0, 5406.0, 5303.0, 5310.0, 5505.0, 5702.0, 5283.0, 5611.0, 5268.0, 5467.0, 5366.0, 5711.0, 5491.0, 5348.0, 5370.0, 5614.0, 5285.0, 5607.0, 5476.0, 5337.0, 5308.0, 5374.0, 5543.0, 5536.0, 5521.0, 5544.0, 5410.0, 5299.0, 5382.0, 5431.0, 5420.0, 5398.0, 5260.0, 5650.0, 5590.0, 5542.0, 5464.0, 5331.0, 5599.0, 5312.0, 5581.0, 5587.0, 5426.0, 5512.0, 5408.0, 5457.0, 5443.0, 5396.0, 5384.0, 5518.0, 5390.0, 5307.0, 5700.0, 5281.0, 5436.0, 5696.0, 5304.0, 5340.0, 5383.0, 5418.0, 5551.0, 5315.0, 5715.0, 5490.0, 5472.0, 5683.0, 5486.0, 5391.0, 5452.0, 5608.0, 5666.0, 5290.0, 5275.0, 5525.0, 5353.0, 5530.0, 5681.0, 5356.0, 5372.0, 5721.0 (number of hits: 14)
20	5530.0	9	1.0	333	1	5432.0, 5353.0, 5667.0, 5527.0, 5475.0, 5438.0, 5626.0, 5296.0, 5556.0, 5313.0, 5444.0, 5640.0, 5671.0, 5387.0, 5721.0, 5319.0, 5514.0, 5560.0, 5252.0, 5509.0, 5502.0, 5634.0, 5692.0, 5375.0, 5672.0, 5332.0, 5350.0, 5573.0, 5563.0, 5549.0, 5479.0, 5287.0, 5510.0, 5306.0, 5295.0, 5699.0, 5495.0, 5305.0, 5547.0, 5656.0, 5631.0, 5384.0, 5665.0, 5423.0, 5637.0, 5529.0, 5275.0, 5602.0, 5541.0, 5697.0, 5376.0, 5624.0, 5436.0, 5704.0, 5485.0, 5645.0, 5468.0, 5571.0, 5658.0, 5429.0, 5283.0, 5636.0, 5499.0, 5505.0, 5311.0, 5409.0, 5567.0, 5291.0, 5627.0, 5635.0, 5705.0, 5612.0, 5424.0, 5506.0, 5719.0, 5516.0, 5679.0, 5370.0, 5261.0, 5446.0, 5710.0, 5517.0, 5314.0, 5648.0, 5418.0, 5326.0, 5619.0, 5579.0, 5678.0, 5482.0, 5403.0, 5321.0, 5437.0, 5546.0, 5649.0, 5543.0, 5480.0, 5644.0, 5700.0, 5325.0 (number of hits: 20)
21	5530.0	9	1.0	333	1	5271.0, 5640.0, 5590.0, 5715.0, 5587.0,

						5578.0, 5538.0, 5499.0, 5699.0, 5477.0, 5338.0, 5601.0, 5335.0, 5687.0, 5593.0, 5539.0, 5614.0, 5424.0, 5297.0, 5418.0, 5609.0, 5303.0, 5521.0, 5532.0, 5355.0, 5420.0, 5648.0, 5585.0, 5324.0, 5543.0, 5676.0, 5683.0, 5345.0, 5673.0, 5469.0, 5686.0, 5373.0, 5274.0, 5422.0, 5401.0, 5642.0, 5503.0, 5674.0, 5678.0, 5695.0, 5423.0, 5442.0, 5550.0, 5694.0, 5663.0, 5464.0, 5342.0, 5557.0, 5296.0, 5624.0, 5444.0, 5322.0, 5385.0, 5652.0, 5413.0, 5498.0, 5277.0, 5560.0, 5284.0, 5641.0, 5535.0, 5453.0, 5513.0, 5278.0, 5416.0, 5411.0, 5388.0, 5658.0, 5316.0, 5430.0, 5485.0, 5618.0, 5471.0, 5506.0, 5343.0, 5347.0, 5703.0, 5421.0, 5556.0, 5334.0, 5645.0, 5455.0, 5524.0, 5665.0, 5370.0, 5440.0, 5553.0, 5289.0, 5315.0, 5292.0, 5337.0, 5415.0, 5569.0, 5586.0, 5510.0 (number of hits: 18)
22	5530.0	9	1.0	333	1	5454.0, 5296.0, 5651.0, 5532.0, 5630.0, 5615.0, 5721.0, 5541.0, 5363.0, 5254.0, 5639.0, 5589.0, 5563.0, 5634.0, 5464.0, 5311.0, 5335.0, 5603.0, 5493.0, 5362.0, 5282.0, 5501.0, 5723.0, 5643.0, 5361.0, 5652.0, 5671.0, 5569.0, 5720.0, 5418.0, 5558.0, 5397.0, 5444.0, 5571.0, 5439.0, 5620.0, 5394.0, 5577.0, 5649.0, 5665.0, 5392.0, 5475.0, 5585.0, 5373.0, 5377.0, 5447.0, 5293.0, 5269.0, 5627.0, 5599.0, 5463.0, 5426.0, 5477.0, 5474.0, 5625.0, 5690.0, 5451.0, 5533.0, 5509.0, 5462.0, 5414.0, 5616.0, 5514.0, 5251.0, 5266.0, 5437.0, 5434.0, 5354.0, 5353.0, 5594.0, 5438.0, 5350.0, 5458.0, 5586.0, 5555.0, 5504.0, 5490.0, 5259.0, 5284.0, 5546.0, 5554.0, 5669.0, 5517.0, 5681.0, 5506.0, 5276.0, 5368.0, 5505.0, 5411.0, 5632.0, 5702.0, 5456.0, 5478.0, 5468.0, 5301.0, 5337.0, 5467.0, 5374.0, 5564.0, 5405.0 (number of hits: 17)
23	5530.0	9	1.0	333	1	5426.0, 5609.0, 5439.0, 5382.0, 5549.0, 5594.0, 5680.0, 5421.0, 5386.0, 5607.0, 5566.0, 5489.0, 5352.0, 5562.0, 5514.0, 5589.0, 5461.0, 5626.0, 5448.0, 5491.0, 5584.0, 5640.0, 5530.0, 5618.0, 5292.0, 5405.0, 5520.0, 5278.0, 5634.0, 5529.0, 5579.0, 5303.0, 5698.0, 5335.0, 5430.0, 5629.0, 5474.0, 5610.0, 5424.0, 5528.0, 5526.0, 5298.0, 5460.0, 5613.0, 5721.0, 5513.0, 5455.0, 5434.0, 5572.0, 5343.0, 5505.0, 5322.0, 5564.0, 5321.0, 5578.0, 5308.0, 5574.0, 5466.0, 5253.0, 5570.0, 5375.0, 5407.0, 5283.0, 5402.0, 5604.0, 5527.0, 5280.0, 5595.0, 5435.0, 5261.0, 5319.0, 5512.0, 5539.0, 5616.0, 5509.0, 5605.0, 5304.0, 5264.0, 5391.0, 5624.0, 5262.0, 5683.0, 5592.0, 5443.0, 5494.0, 5354.0, 5463.0, 5518.0, 5378.0, 5542.0, 5384.0, 5465.0, 5565.0, 5256.0, 5399.0, 5276.0, 5676.0, 5464.0, 5625.0, 5259.0

						(number of hits: 20)
24	5530.0	9	1.0	333	1	5505.0, 5545.0, 5363.0, 5279.0, 5484.0, 5659.0, 5347.0, 5301.0, 5713.0, 5372.0, 5546.0, 5423.0, 5576.0, 5305.0, 5317.0, 5354.0, 5434.0, 5663.0, 5441.0, 5369.0, 5467.0, 5266.0, 5339.0, 5532.0, 5355.0, 5565.0, 5489.0, 5324.0, 5498.0, 5403.0, 5513.0, 5384.0, 5311.0, 5643.0, 5444.0, 5585.0, 5653.0, 5449.0, 5381.0, 5656.0, 5509.0, 5607.0, 5450.0, 5678.0, 5258.0, 5500.0, 5572.0, 5486.0, 5580.0, 5396.0, 5392.0, 5669.0, 5470.0, 5418.0, 5322.0, 5367.0, 5511.0, 5575.0, 5569.0, 5326.0, 5385.0, 5257.0, 5465.0, 5506.0, 5309.0, 5256.0, 5343.0, 5386.0, 5409.0, 5581.0, 5469.0, 5578.0, 5636.0, 5574.0, 5342.0, 5691.0, 5288.0, 5650.0, 5537.0, 5619.0, 5715.0, 5487.0, 5542.0, 5562.0, 5299.0, 5261.0, 5564.0, 5639.0, 5321.0, 5646.0, 5314.0, 5267.0, 5510.0, 5615.0, 5680.0, 5517.0, 5702.0, 5632.0, 5611.0, 5707.0
						(number of hits: 17)
25	5530.0	9	1.0	333	1	5633.0, 5377.0, 5718.0, 5629.0, 5412.0, 5570.0, 5713.0, 5445.0, 5548.0, 5651.0, 5656.0, 5556.0, 5498.0, 5665.0, 5418.0, 5386.0, 5385.0, 5654.0, 5496.0, 5364.0, 5510.0, 5435.0, 5580.0, 5471.0, 5706.0, 5719.0, 5583.0, 5338.0, 5283.0, 5286.0, 5688.0, 5342.0, 5632.0, 5484.0, 5545.0, 5673.0, 5723.0, 5509.0, 5611.0, 5681.0, 5281.0, 5251.0, 5305.0, 5501.0, 5522.0, 5657.0, 5325.0, 5367.0, 5331.0, 5290.0, 5560.0, 5368.0, 5670.0, 5332.0, 5327.0, 5255.0, 5306.0, 5703.0, 5431.0, 5438.0, 5626.0, 5714.0, 5506.0, 5409.0, 5324.0, 5630.0, 5443.0, 5617.0, 5676.0, 5525.0, 5447.0, 5500.0, 5358.0, 5457.0, 5687.0, 5481.0, 5675.0, 5489.0, 5543.0, 5700.0, 5469.0, 5477.0, 5512.0, 5269.0, 5494.0, 5458.0, 5354.0, 5715.0, 5686.0, 5497.0, 5488.0, 5270.0, 5474.0, 5421.0, 5365.0, 5335.0, 5472.0, 5463.0, 5696.0, 5303.0
						(number of hits: 17)
26	5530.0	9	1.0	333	1	5392.0, 5645.0, 5403.0, 5413.0, 5488.0, 5539.0, 5709.0, 5643.0, 5533.0, 5384.0, 5695.0, 5667.0, 5626.0, 5696.0, 5524.0, 5594.0, 5337.0, 5701.0, 5525.0, 5450.0, 5592.0, 5498.0, 5323.0, 5344.0, 5272.0, 5518.0, 5433.0, 5621.0, 5719.0, 5462.0, 5538.0, 5567.0, 5687.0, 5599.0, 5349.0, 5338.0, 5361.0, 5391.0, 5603.0, 5408.0, 5494.0, 5718.0, 5669.0, 5350.0, 5591.0, 5347.0, 5545.0, 5523.0, 5324.0, 5287.0, 5589.0, 5434.0, 5253.0, 5296.0, 5651.0, 5293.0, 5417.0, 5609.0, 5471.0, 5292.0, 5513.0, 5508.0, 5313.0, 5509.0, 5302.0, 5604.0, 5495.0, 5261.0, 5639.0, 5598.0, 5375.0, 5500.0, 5419.0, 5572.0, 5677.0, 5266.0, 5439.0, 5381.0, 5412.0, 5640.0, 5702.0, 5601.0, 5315.0, 5289.0, 5483.0, 5670.0, 5278.0, 5255.0, 5562.0, 5367.0,

						5257.0, 5422.0, 5365.0, 5497.0, 5634.0, 5496.0, 5691.0, 5374.0, 5606.0, 5268.0 (number of hits: 18)
27	5530.0	9	1.0	333	1	5421.0, 5717.0, 5703.0, 5252.0, 5624.0, 5552.0, 5343.0, 5576.0, 5257.0, 5711.0, 5477.0, 5404.0, 5638.0, 5598.0, 5344.0, 5500.0, 5440.0, 5688.0, 5482.0, 5611.0, 5402.0, 5370.0, 5714.0, 5549.0, 5516.0, 5383.0, 5289.0, 5511.0, 5697.0, 5537.0, 5547.0, 5542.0, 5554.0, 5648.0, 5510.0, 5368.0, 5451.0, 5649.0, 5426.0, 5651.0, 5590.0, 5389.0, 5532.0, 5309.0, 5374.0, 5305.0, 5415.0, 5640.0, 5569.0, 5708.0, 5265.0, 5566.0, 5693.0, 5397.0, 5626.0, 5541.0, 5493.0, 5561.0, 5625.0, 5301.0, 5643.0, 5459.0, 5354.0, 5663.0, 5362.0, 5647.0, 5690.0, 5290.0, 5502.0, 5266.0, 5345.0, 5720.0, 5667.0, 5634.0, 5261.0, 5645.0, 5474.0, 5405.0, 5399.0, 5350.0, 5447.0, 5292.0, 5461.0, 5639.0, 5655.0, 5694.0, 5333.0, 5557.0, 5282.0, 5646.0, 5278.0, 5387.0, 5629.0, 5390.0, 5617.0, 5513.0, 5314.0, 5400.0, 5437.0, 5526.0 (number of hits: 19)
28	5530.0	9	1.0	333	1	5547.0, 5616.0, 5691.0, 5296.0, 5641.0, 5416.0, 5350.0, 5340.0, 5534.0, 5477.0, 5523.0, 5600.0, 5270.0, 5303.0, 5360.0, 5456.0, 5379.0, 5410.0, 5264.0, 5262.0, 5408.0, 5438.0, 5478.0, 5419.0, 5508.0, 5470.0, 5496.0, 5275.0, 5484.0, 5585.0, 5702.0, 5689.0, 5396.0, 5436.0, 5530.0, 5388.0, 5255.0, 5548.0, 5314.0, 5424.0, 5400.0, 5306.0, 5445.0, 5421.0, 5678.0, 5476.0, 5677.0, 5555.0, 5356.0, 5630.0, 5598.0, 5596.0, 5556.0, 5465.0, 5467.0, 5451.0, 5357.0, 5373.0, 5374.0, 5666.0, 5543.0, 5349.0, 5359.0, 5608.0, 5258.0, 5393.0, 5443.0, 5541.0, 5334.0, 5579.0, 5575.0, 5606.0, 5269.0, 5514.0, 5463.0, 5423.0, 5386.0, 5517.0, 5505.0, 5326.0, 5658.0, 5332.0, 5692.0, 5384.0, 5688.0, 5567.0, 5418.0, 5389.0, 5336.0, 5382.0, 5365.0, 5617.0, 5468.0, 5339.0, 5337.0, 5586.0, 5310.0, 5713.0, 5453.0, 5656.0 (number of hits: 14)
29	5530.0	9	1.0	333	1	5575.0, 5269.0, 5420.0, 5514.0, 5255.0, 5405.0, 5308.0, 5634.0, 5512.0, 5266.0, 5395.0, 5432.0, 5424.0, 5351.0, 5507.0, 5497.0, 5594.0, 5677.0, 5500.0, 5584.0, 5703.0, 5326.0, 5620.0, 5406.0, 5617.0, 5689.0, 5324.0, 5674.0, 5641.0, 5470.0, 5698.0, 5539.0, 5385.0, 5467.0, 5381.0, 5256.0, 5651.0, 5333.0, 5453.0, 5515.0, 5564.0, 5510.0, 5529.0, 5536.0, 5373.0, 5332.0, 5394.0, 5427.0, 5630.0, 5719.0, 5358.0, 5501.0, 5582.0, 5309.0, 5396.0, 5631.0, 5720.0, 5428.0, 5439.0, 5604.0, 5300.0, 5389.0, 5476.0, 5382.0, 5305.0, 5611.0, 5409.0, 5277.0, 5639.0, 5436.0, 5488.0, 5616.0, 5685.0, 5464.0, 5272.0, 5375.0, 5572.0, 5278.0, 5662.0, 5506.0

						5263.0, 5695.0, 5478.0, 5595.0, 5615.0, 5700.0, 5621.0, 5445.0, 5290.0, 5678.0, 5656.0, 5299.0, 5413.0, 5665.0, 5532.0, 5466.0, 5347.0, 5588.0, 5376.0, 5486.0 (number of hits: 14)
30	5530.0	9	1.0	333	1	5484.0, 5303.0, 5685.0, 5473.0, 5470.0, 5270.0, 5285.0, 5419.0, 5420.0, 5317.0, 5388.0, 5500.0, 5724.0, 5606.0, 5460.0, 5308.0, 5367.0, 5465.0, 5250.0, 5650.0, 5691.0, 5553.0, 5511.0, 5680.0, 5625.0, 5309.0, 5387.0, 5403.0, 5647.0, 5262.0, 5677.0, 5273.0, 5686.0, 5638.0, 5616.0, 5619.0, 5588.0, 5622.0, 5568.0, 5497.0, 5408.0, 5489.0, 5547.0, 5277.0, 5582.0, 5617.0, 5376.0, 5458.0, 5597.0, 5413.0, 5423.0, 5472.0, 5698.0, 5418.0, 5474.0, 5659.0, 5708.0, 5495.0, 5446.0, 5397.0, 5449.0, 5532.0, 5671.0, 5258.0, 5674.0, 5313.0, 5336.0, 5292.0, 5525.0, 5658.0, 5722.0, 5372.0, 5521.0, 5571.0, 5365.0, 5295.0, 5693.0, 5545.0, 5526.0, 5341.0, 5305.0, 5714.0, 5332.0, 5323.0, 5342.0, 5401.0, 5350.0, 5719.0, 5639.0, 5540.0, 5491.0, 5661.0, 5383.0, 5294.0, 5641.0, 5518.0, 5416.0, 5328.0, 5326.0, 5539.0 (number of hits: 14)

**AP Mode
Pine Radio****5500 MHz, 20 MHz Bandwidth**

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1A/1B	30	93.3 %	60%	Pass
Type 2	30	76.7 %	60%	Pass
Type 3	30	80 %	60%	Pass
Type 4	30	86.7 %	60%	Pass
Aggregate (Type1 to 4)	120	84.2 %	80%	Pass
Type 5	30	100 %	80%	Pass
Type 6	30	96.7 %	70%	Pass

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

Note: Radar was generated randomly in the frequency range of 5490-5510 MHz.

Trial #	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	61	1.0	878	1
2	81	1.0	658	1
3	76	1.0	698	1
4	63	1.0	838	1
5	70	1.0	758	1
6	72	1.0	738	1
7	68	1.0	778	1
8	89	1.0	598	1
9	83	1.0	638	1
10	99	1.0	538	0
11	86	1.0	618	1
12	92	1.0	578	1
13	65	1.0	818	1
14	74	1.0	718	0
15	57	1.0	938	1
16	29	1.0	1834	1
17	93	1.0	570	1
18	23	1.0	2342	1
19	19	1.0	2869	1
20	19	1.0	2885	1
21	25	1.0	2147	1
22	24	1.0	2285	1
23	18	1.0	3049	1
24	51	1.0	1046	1
25	19	1.0	2883	1
26	25	1.0	2193	1
27	80	1.0	668	1
28	25	1.0	2195	1
29	20	1.0	2641	1
30	20	1.0	2684	1
Detection Percentage: 93.3% (>60%)				

Table-2 Radar Type 2 Statistical Performance

Note: Radar was generated randomly in the frequency range of 5490-5510 MHz.

Trial #	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	28	3.7	160	1
2	28	4.6	174	1
3	25	3.0	180	0
4	26	2.7	219	1
5	25	1.9	220	0
6	24	4.1	160	1
7	28	2.8	224	0
8	24	3.3	160	1
9	25	2.8	216	1
10	23	3.4	223	1
11	29	1.3	175	0
12	26	2.3	166	1
13	23	4.0	164	1
14	27	1.5	213	1
15	28	1.2	202	1
16	23	2.3	196	1
17	29	3.1	199	1
18	27	1.9	224	1
19	24	3.2	159	1
20	25	1.1	205	1
21	23	1.4	183	1
22	27	2.2	151	1
23	24	2.4	157	1
24	26	2.7	225	0
25	25	1.1	156	1
26	28	3.6	218	1
27	25	2.1	208	0
28	25	1.6	175	1
29	26	3.7	225	1
30	27	4.5	194	0
Detection Percentage: 76.7 % (>60%)				

Table-3 Radar Type 3 Statistical Performance

Note: Radar was generated randomly in the frequency range of 5490-5510 MHz.

Trial #	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	18	7.0	465	1
2	16	8.6	301	1
3	18	6.2	351	0
4	18	8.1	403	1
5	16	6.9	344	1
6	17	6.8	296	0
7	17	7.0	435	0
8	16	8.5	432	1
9	17	8.8	447	0
10	18	9.0	260	1
11	17	9.5	375	1
12	16	10.0	231	1
13	16	9.5	325	1
14	18	6.0	222	1
15	18	9.3	230	1
16	18	6.3	385	0
17	18	8.6	421	1
18	18	6.5	500	1
19	17	7.1	454	1
20	16	8.7	489	1
21	16	10.0	288	1
22	17	6.2	272	1
23	18	7.8	429	1
24	16	6.3	283	1
25	17	9.3	356	1
26	18	6.8	264	1
27	16	9.3	250	1
28	16	9.2	441	0
29	18	6.8	436	1
30	17	8.4	463	1
Detection Percentage: 80 % (>60%)				

Table-4 Radar Type 4 Statistical Performance

Note: Radar was generated randomly in the frequency range of 5490-5510 MHz.

Trial #	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	16	16.1	408	1
2	16	14.6	366	1
3	13	16.7	243	1
4	15	13.4	485	1
5	15	12.7	271	1
6	13	15.4	301	1
7	13	19.3	200	1
8	12	17.5	208	0
9	13	13.6	444	1
10	12	13.8	250	1
11	13	13.2	379	0
12	12	15.6	470	1
13	13	19.3	213	1
14	13	16.5	342	0
15	16	17.1	494	1
16	16	20.0	282	1
17	13	11.2	238	1
18	13	19.6	246	1
19	13	12.7	257	1
20	12	16.8	222	1
21	12	11.9	485	1
22	16	16.9	497	1
23	13	16.9	424	1
24	16	11.1	319	1
25	16	16.9	436	1
26	16	18.6	344	1
27	14	13.9	355	1
28	13	14.0	335	0
29	12	14.6	323	1
30	15	19.6	473	1
Detection Percentage: 86.7 % (>60%)				

Table-5 Radar Type 5 Statistical Performance

Trial #	Fc (MHz)	Detection (1:yes; 0:no)
1	5500	1
2	5500	1
3	5500	1
4	5500	1
5	5500	1
6	5500	1
7	5500	1
8	5500	1
9	5500	1
10	5500	1
11	5493.8	1
12	5498.2	1
13	5497.4	1
14	5497.0	1
15	5493.0	1
16	5495.8	1
17	5497.4	1
18	5496.2	1
19	5496.6	1
20	5497.8	1
21	5503.0	1
22	5504.2	1
23	5505.0	1
24	5501.8	1
25	5507.0	1
26	5502.6	1
27	5501.8	1
28	5502.2	1
29	5501.8	1
30	5505.4	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	5	81.7	1768		0.334039	1
1	2	5	68.3	1549		1.520146	
2	1	5	84.5			1.679714	
3	1	5	64.4			2.854169	
4	2	5	80.7	1997		3.522107	
5	2	5	58.3	1047		4.515605	
6	2	5	70.0	1041		4.966702	
7	2	5	68.5	1372		5.865236	
8	3	5	70.0	1505	1223	7.182451	
9	3	5	52.9	1635	1894	7.526689	
10	2	5	63.2	1782		8.696248	
11	1	5	99.6			9.042230	
12	3	5	59.1	1929	1614	9.743669	
13	2	5	51.7	1733		10.839786	
14	1	5	94.3			11.972045	

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	87.3	1849		0.079895	1
1	1	12	76.5			1.211616	
2	2	12	72.1	1428		2.184020	
3	2	12	92.3	1586		3.932327	
4	2	12	58.5	1293		4.117344	
5	2	12	83.6	1954		5.980680	
6	1	12	64.2			6.703403	
7	2	12	58.2	1433		7.336546	
8	2	12	80.7	1818		8.212775	
9	2	12	93.6	1045		9.696613	
10	2	12	78.0	1724		10.338517	
11	2	12	85.7	1841		11.992186	
0	2	12	87.3	1849		0.079895	

Bin5 Statistics 3

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	7	55.4			0.280952	1
1	3	7	67.1	1556	1208	0.683521	
2	3	7	70.8	1196	1869	1.206987	
3	1	7	89.7			2.007192	
4	1	7	88.7			2.737607	
5	3	7	80.1	1619	1862	3.212230	
6	3	7	87.7	1139	1677	3.874980	
7	2	7	62.1	1031		4.294657	
8	2	7	86.6	1249		4.859308	
9	1	7	62.5			5.507521	
10	3	7	84.5	1067	1347	6.334566	
11	1	7	74.8			6.967394	
12	3	7	95.4	1516	1894	7.608467	
13	1	7	81.0			8.000234	
14	1	7	59.7			8.708533	
15	2	7	54.7	1935		9.306028	
16	2	7	88.7	1060		10.047840	
17	2	7	73.0	1954		10.613457	
18	2	7	57.4	1430		11.087823	
19	2	7	56.0	1627		11.904656	

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	7	94.6			0.496334	1
1	3	7	90.2	1428	1685	0.797698	
2	2	7	77.6	1529		1.988478	
3	3	7	92.1	1734	1395	2.520965	
4	3	7	84.8	1251	1382	3.138561	
5	1	7	51.4			3.915986	
6	1	7	81.0			4.405980	
7	2	7	78.4	1454		4.953620	
8	3	7	86.0	1551	1009	5.791550	
9	3	7	80.6	1776	1569	6.580107	
10	3	7	71.2	1337	1180	7.723775	
11	3	7	75.8	1224	1586	8.415520	
12	1	7	90.4			9.038124	
13	2	7	52.4	1573		9.489086	
14	1	7	71.2			10.005895	
15	2	7	71.0	1859		10.642140	
16	2	7	60.8	1626		11.440179	

Bin5 Statistics 5

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	5	59.7	1435		0.128998	1
1	3	5	75.0	1366	1909	0.953561	
2	3	5	90.1	1001	1785	1.443511	
3	3	5	90.3	1645	1509	2.269369	
4	2	5	67.9	1470		2.614060	
5	2	5	85.7	1371		3.028023	
6	3	5	60.8	1631	1177	3.935841	
7	1	5	97.9			4.582021	
8	1	5	94.6			5.085197	
9	2	5	98.2	1104		5.444307	
10	2	5	66.6	1894		6.464582	
11	3	5	81.0	1024	1094	6.884740	
12	1	5	63.6			7.449854	
13	3	5	87.0	1331	1036	8.390842	
14	2	5	65.0	1569		8.529100	
15	2	5	88.9	1761		9.091415	
16	2	5	61.0	1746		9.872540	
17	1	5	74.4			10.671886	
18	1	5	91.6			11.276962	
19	3	5	58.7	1054	1433	11.677586	

Bin5 Statistics 6

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	12	86.9			0.169263	1
1	2	12	92.5	1615		1.360244	
2	2	12	94.0	1311		2.020430	
3	1	12	77.1			2.375258	
4	2	12	63.5	1187		3.347947	
5	2	12	61.1	1800		3.811132	
6	2	12	64.3	1064		4.424619	
7	2	12	88.5	1043		5.010505	
8	1	12	72.2			6.112211	
9	1	12	57.1			6.447032	
10	2	12	87.7	1867		7.111082	
11	3	12	55.2	1998	1824	8.118563	
12	3	12	63.3	1367	1407	8.635863	
13	1	12	79.8			9.320234	
14	2	12	79.3	1442		9.897319	
15	3	12	82.1	1639	1268	11.137853	
16	1	12	61.4			11.657106	

Bin5 Statistics 7

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	8	61.4	1273		0.392663	1
1	2	8	58.2	1726		0.941685	
2	2	8	85.2	1601		2.097760	
3	2	8	81.1	1400		3.055573	
4	3	8	91.1	1950	1123	3.965233	
5	1	8	80.3			4.338927	
6	2	8	92.4	1669		4.927574	
7	2	8	62.1	1591		6.269942	
8	1	8	87.7			6.912992	
9	1	8	52.6			7.821446	
10	1	8	79.1			8.698717	
11	1	8	52.7			8.979248	
12	1	8	92.9			10.099265	
13	3	8	70.2	1633	1807	11.112501	
14	2	8	89.5	1350		11.226901	

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	6	99.0	1963	1246	0.139760	1
1	1	6	56.8			0.783775	
2	2	6	82.1	1495		2.051216	
3	1	6	65.1			2.236327	
4	3	6	58.5	1489	1406	3.322230	
5	2	6	65.0	1893		4.114997	
6	1	6	66.9			4.527367	
7	2	6	56.0	1306		5.560888	
8	1	6	53.9			6.234002	
9	2	6	70.5	1126		6.802400	
10	1	6	62.3			7.299655	
11	1	6	50.0			8.016027	
12	1	6	68.8			8.636506	
13	1	6	84.0			9.739768	
14	1	6	98.5			10.342915	
15	1	6	91.9			11.113086	
16	3	6	82.3	1474	1836	11.752328	

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	12	53.1	1774		0.907353	1
1	2	12	90.7	1936		1.570346	
2	2	12	64.8	1142		4.249426	
3	2	12	98.8	1331		4.913737	
4	3	12	59.2	1551	1097	6.234335	
5	2	12	88.6	1070		8.140449	
6	2	12	99.0	1832		10.050181	
7	2	12	68.4	1595		11.854923	

Bin5 Statistics 10

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	14	66.9			0.058815	1
1	2	14	52.9	1563		1.229841	
2	2	14	54.4	1459		1.739792	
3	2	14	77.9	1350		2.099321	
4	3	14	57.2	1455	1833	3.131234	
5	2	14	50.9	1032		3.505154	
6	2	14	52.4	1859		4.138907	
7	2	14	88.3	1575		4.470784	
8	3	14	74.2	1755	1773	5.105959	
9	2	14	91.5	1801		5.984320	
10	3	14	84.1	1403	1264	6.629824	
11	1	14	63.0			7.136671	
12	2	14	99.4	1587		7.945129	
13	2	14	83.7	1849		8.601165	
14	3	14	78.0	1883	1212	9.284096	
15	1	14	86.0			9.544927	
16	2	14	65.6	1947		10.432288	
17	1	14	85.4			10.768037	
18	1	14	88.2			11.843165	

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	7	83.7			0.013181	1
1	3	7	93.9	1225	1235	0.863739	
2	3	7	92.5	1609	1665	1.467212	
3	1	7	64.9			2.278818	
4	1	7	50.9			2.854936	
5	2	7	93.3	1736		3.521010	
6	1	7	77.3			4.038219	
7	2	7	59.4	1217		4.568263	
8	2	7	85.2	1042		5.511305	
9	2	7	79.3	1342		5.723420	
10	3	7	52.8	1988	1683	6.419780	
11	2	7	58.8	1198		7.177692	
12	1	7	84.4			8.159777	
13	2	7	91.4	1526		8.597850	
14	2	7	98.5	1345		8.940120	
15	2	7	92.1	1288		9.475847	
16	2	7	58.5	1413		10.595326	
17	1	7	97.4			11.302104	
18	3	7	82.8	1042	1091	11.952560	

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	92.3	1911		0.180677	1
1	2	18	76.6	1301		0.711487	
2	1	18	71.9			1.420062	
3	1	18	92.1			2.231294	
4	1	18	53.1			3.043897	
5	2	18	52.3	1798		4.095630	
6	3	18	91.9	1551	1996	4.782695	
7	2	18	77.6	1209		5.251449	
8	2	18	59.6	1167		5.986435	
9	2	18	78.9	1571		6.504265	
10	3	18	73.9	1225	1543	7.517106	
11	1	18	97.7			7.947614	
12	2	18	81.4	1759		8.670840	
13	2	18	89.4	1262		9.445594	
14	2	18	65.4	1623		10.091751	
15	3	18	71.8	1070	1239	11.215968	
16	2	18	85.7	1185		11.410653	

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	16	89.4			0.690239	1
1	2	16	75.2	1038		0.824948	
2	2	16	61.2	1390		1.758987	
3	2	16	66.4	1273		2.778348	
4	2	16	65.6	1853		3.219794	
5	2	16	77.6	1286		3.785807	
6	2	16	64.5	1773		4.667812	
7	1	16	64.0			5.206457	
8	2	16	81.9	1233		6.180075	
9	2	16	55.3	1352		6.806581	
10	2	16	89.6	1749		7.371919	
11	3	16	58.3	1535	1214	7.806659	
12	1	16	68.2			9.027416	
13	2	16	87.1	1859		9.877214	
14	1	16	75.4			10.395604	
15	2	16	56.2	1967		11.281018	
16	2	16	84.7	1734		11.737393	

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	80.5	1198		0.580033	1
1	3	15	71.0	1744	1158	1.032125	
2	3	15	98.6	1926	1822	1.379370	
3	2	15	96.9	1935		2.472998	
4	2	15	85.4	1572		3.097967	
5	3	15	97.7	1494	1333	3.534082	
6	3	15	78.6	1423	1091	4.286005	
7	2	15	51.4	1043		4.774921	
8	3	15	66.2	1745	1538	5.376675	
9	3	15	71.5	1923	1859	6.489402	
10	2	15	59.0	1134		6.994338	
11	2	15	68.8	1707		7.615155	
12	2	15	71.6	1780		8.340326	
13	1	15	80.5			9.070322	
14	3	15	53.1	1983	1330	9.932592	
15	3	15	54.9	1874	1679	10.322792	
16	2	15	90.8	1067		10.967855	
17	1	15	50.1			11.370343	

Bin5 Statistic 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	5	69.3	1273		0.317808	1
1	2	5	94.6	1190		0.963521	
2	1	5	78.6			1.945967	
3	1	5	86.5			2.671965	
4	3	5	87.1	1714	1684	3.421301	
5	1	5	82.1			4.201319	
6	2	5	93.8	1412		5.517128	
7	2	5	82.9	1313		6.340614	
8	1	5	58.4			6.874425	
9	1	5	72.6			7.717739	
10	2	5	89.2	1409		8.634135	
11	1	5	91.9			9.388819	
12	2	5	60.0	1320		10.310182	
13	2	5	87.1	1259		10.717906	
14	1	5	66.0			11.710680	

Bin5 Statistics 16

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	12	92.6			0.139936	1
1	1	12	87.9			1.936186	
2	2	12	71.4	1069		2.344068	
3	2	12	59.2	1464		3.432906	
4	2	12	83.6	1569		4.825426	
5	2	12	55.8	1602		5.102382	
6	2	12	79.6	1426		6.969565	
7	1	12	77.8			7.788701	
8	2	12	99.0	1703		8.715615	
9	2	12	71.6	1611		9.630591	
10	1	12	50.1			10.087154	
11	1	12	75.3			11.456791	

Bin5 Statistics 17

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	16	50.9			0.594873	1
1	3	16	75.1	1837	1427	0.980524	
2	3	16	97.4	1346	1246	1.913854	
3	2	16	63.4	1709		2.207851	
4	2	16	66.1	1410		3.124245	
5	3	16	90.8	1723	1165	4.199519	
6	1	16	59.5			4.253811	
7	2	16	72.1	1277		5.586273	
8	2	16	95.0	1005		5.686340	
9	2	16	96.3	1382		6.993866	
10	3	16	95.2	1062	1200	7.125161	
11	3	16	56.1	1536	1417	7.966051	
12	2	16	51.7	1814		8.620348	
13	2	16	79.0	1936		9.640827	
14	1	16	60.2			10.269304	
15	3	16	51.2	1546	1424	11.195428	
16	3	16	53.3	1789	1794	11.899065	

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	13	82.5			0.529041	1
1	3	13	78.0	1836	1311	0.939006	
2	3	13	61.1	1388	1407	1.473111	
3	1	13	66.9			2.579706	
4	2	13	94.7	1619		3.137541	
5	2	13	85.7	1637		3.691486	
6	2	13	56.1	1505		4.178775	
7	2	13	69.5	1752		5.309558	
8	1	13	59.5			5.459358	
9	1	13	93.8			6.054643	
10	2	13	55.0	1194		7.291263	
11	2	13	54.0	1402		7.922248	
12	3	13	74.3	1875	1160	8.424459	
13	2	13	80.0	1772		8.960787	
14	2	13	98.7	1819		9.575074	
15	2	13	91.2	1992		10.125568	
16	1	13	74.7			11.037122	
17	1	13	62.4			11.510775	

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	54.5	1994		0.465411	1
1	2	14	59.2	1311		0.864146	
2	2	14	63.2	1417		2.241969	
3	1	14	99.5			2.726884	
4	2	14	70.4	1150		3.733533	
5	3	14	74.9	1978	1724	3.964690	
6	1	14	75.4			4.959863	
7	2	14	60.1	1973		5.693545	
8	2	14	50.0	1737		6.363283	
9	1	14	52.5			7.273725	
10	1	14	57.6			8.142918	
11	2	14	87.8	1981		8.384385	
12	3	14	70.5	1084	1199	9.014575	
13	3	14	96.9	1468	1900	10.348972	
14	2	14	87.2	1383		10.855878	
15	1	14	65.9			11.418328	

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	17	98.5			0.776684	1
1	1	17	52.4			1.893914	
2	2	17	95.1	1964		2.244050	
3	3	17	52.7	1479	1296	4.010311	
4	2	17	74.5	1324		4.533778	
5	3	17	58.5	1566	1534	6.146554	
6	2	17	75.5	1452		7.358931	
7	2	17	76.5	1081		8.647275	
8	3	17	69.0	1963	1604	8.926655	
9	2	17	69.8	1125		10.602693	
10	2	17	59.0	1119		10.913194	

Bin5 Statistics 21

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	15	71.8	1957		0.285936	1
1	2	15	94.8	1992		1.476529	
2	2	15	62.8	1366		2.349823	
3	3	15	87.0	1192	1792	3.151569	
4	2	15	65.4	1997		3.336916	
5	3	15	66.3	1276	1250	4.588688	
6	2	15	63.9	1923		4.900916	
7	2	15	56.7	1683		6.111741	
8	3	15	56.9	1014	1768	6.541457	
9	2	15	74.2	1729		7.741561	
10	1	15	53.0			8.497969	
11	2	15	95.9	1192		9.070100	
12	2	15	67.4	1861		10.191502	
13	2	15	54.5	1364		11.132229	
14	3	15	92.0	1434	1919	11.688786	

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	12	69.2	1411		0.569779	1
1	2	12	61.9	1488		1.930241	
2	1	12	96.6			4.256500	
3	3	12	54.6	1596	1524	5.294568	
4	2	12	69.3	1472		6.268934	
5	1	12	54.8			8.095624	
6	2	12	52.2	1975		10.098715	
7	1	12	52.3			11.235288	

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	10	69.0	1206		1.308166	1
1	3	10	68.7	1154	1354	1.524840	
2	3	10	69.0	1051	1546	3.740969	
3	2	10	56.0	1432		5.243427	
4	3	10	83.3	1920	1579	6.256279	
5	1	10	68.5			8.255150	
6	2	10	90.2	1791		9.017030	
7	1	10	89.2			11.557783	

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	18	84.2	1510		0.626947	1
1	2	18	67.9	1450		1.595719	
2	2	18	79.7	1957		1.945523	
3	2	18	66.9	1851		2.978693	
4	2	18	93.4	1203		4.226884	
5	2	18	96.7	1704		4.759630	
6	2	18	74.9	1703		5.966098	
7	3	18	58.6	1743	1123	6.950127	
8	2	18	52.4	1491		7.581283	
9	2	18	56.8	1729		8.473995	
10	1	18	80.5			9.709286	
11	3	18	77.3	1358	1913	10.685233	
12	3	18	86.0	1723	1368	11.416177	

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	5	70.1			0.242602	1
1	2	5	54.2	1497		1.467287	
2	1	5	74.1			1.575794	
3	3	5	55.7	1465	1787	2.513979	
4	3	5	72.4	1910	1202	3.059395	
5	2	5	52.4	1753		4.045961	
6	3	5	85.5	1908	1728	4.852699	
7	2	5	87.5	1878		5.988975	
8	2	5	59.9	1031		6.166171	
9	1	5	65.0			6.794180	
10	3	5	57.3	1227	1497	7.617165	
11	2	5	51.5	1297		8.550294	
12	1	5	97.7			9.422154	
13	1	5	58.9			10.351928	
14	3	5	52.7	1280	1683	10.539854	
15	2	5	87.3	1392		11.790438	

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	16	55.4			0.683515	1
1	1	16	64.4			0.950013	
2	2	16	81.1	1813		1.915673	
3	3	16	59.4	1949	1194	2.744900	
4	2	16	79.1	1898		3.736850	
5	2	16	93.6	1567		4.460424	
6	3	16	79.4	1463	1092	5.511112	
7	2	16	89.2	1901		6.019624	
8	2	16	98.7	1154		6.492010	
9	1	16	61.9			7.662556	
10	3	16	82.4	1188	1728	8.197025	
11	2	16	81.7	1071		9.151504	
12	3	16	93.6	1063	1196	10.082955	
13	1	16	58.4			10.428898	
14	1	16	74.7			11.492183	

Bin5 Statistics 27

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	18	55.1	1493		0.609190	1
1	3	18	74.1	1730	1798	1.376681	
2	2	18	56.3	1771		2.236027	
3	2	18	64.1	1330		3.089493	
4	1	18	56.1			4.275825	
5	2	18	72.5	1726		5.199481	
6	2	18	60.9	1002		6.354754	
7	1	18	80.9			6.830536	
8	1	18	87.3			8.032289	
9	2	18	52.7	1077		8.604916	
10	1	18	74.3			9.695568	
11	2	18	72.9	1267		10.675107	
12	2	18	74.8	1555		11.267021	

Bin5 Statistics 28

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	17	65.0			0.349196	1
1	2	17	83.1	1634		1.560190	
2	1	17	96.4			1.932671	
3	3	17	53.7	1175	1445	2.684805	
4	3	17	75.3	1348	1611	3.668037	
5	2	17	54.9	1569		4.231436	
6	1	17	99.8			5.369786	
7	2	17	53.9	1210		6.234018	
8	1	17	60.2			6.512782	
9	2	17	53.8	1523		7.423929	
10	2	17	73.0	1365		8.015227	
11	3	17	95.3	1855	1426	9.083572	
12	2	17	82.7	1056		9.836883	
13	2	17	60.4	1960		11.155916	
14	2	17	98.9	1465		11.516964	

Bin5 Statistics 29

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	18	56.6	1560		0.368953	1
1	1	18	95.3			1.388167	
2	2	18	80.1	1425		1.766309	
3	2	18	74.3	1229		2.738812	
4	2	18	71.8	1403		2.968667	
5	2	18	60.7	1198		3.946142	
6	1	18	72.9			4.281488	
7	1	18	62.4			5.405152	
8	1	18	51.8			6.279924	
9	3	18	51.9	1411	1512	6.632594	
10	1	18	89.2			7.167852	
11	2	18	64.9	1442		8.097411	
12	3	18	67.9	1041	1018	8.948921	
13	1	18	53.4			9.297050	
14	1	18	81.3			10.566738	
15	3	18	100.0	1099	1890	11.188516	
16	3	18	73.1	1738	1200	11.585566	

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	63.4	1370	1410	0.781990	1
1	2	9	93.2	1988		2.010034	
2	3	9	89.3	1765	1590	2.191149	
3	2	9	69.4	1524		3.499087	
4	2	9	60.5	1855		5.161330	
5	2	9	74.8	1040		5.976724	
6	2	9	55.8	1922		7.218350	
7	2	9	87.9	1631		8.379717	
8	3	9	76.2	1324	1997	9.046354	
9	3	9	58.6	1914	1037	9.932914	
10	1	9	88.9			11.948342	

s

Table-6 Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (μS)	PRI (μs)	Detecti on (1:yes; 0:no)	Hopping Sequence
1	5500.0	9	1.0	333	1	5571.0, 5327.0, 5356.0, 5508.0, 5394.0, 5332.0, 5656.0, 5386.0, 5560.0, 5660.0, 5310.0, 5283.0, 5260.0, 5679.0, 5388.0, 5639.0, 5401.0, 5616.0, 5671.0, 5279.0, 5607.0, 5496.0, 5527.0, 5372.0, 5345.0, 5336.0, 5434.0, 5673.0, 5422.0, 5300.0, 5257.0, 5475.0, 5709.0, 5485.0, 5505.0, 5577.0, 5552.0, 5396.0, 5669.0, 5603.0, 5448.0, 5617.0, 5711.0, 5615.0, 5265.0, 5273.0, 5583.0, 5326.0, 5672.0, 5313.0, 5517.0, 5287.0, 5483.0, 5529.0, 5651.0, 5271.0, 5534.0, 5481.0, 5548.0, 5642.0, 5584.0, 5570.0, 5701.0, 5341.0, 5623.0, 5466.0, 5343.0, 5293.0, 5516.0, 5406.0, 5634.0, 5717.0, 5395.0, 5373.0, 5592.0, 5670.0, 5462.0, 5435.0, 5489.0, 5474.0, 5322.0, 5382.0, 5426.0, 5282.0, 5612.0, 5579.0, 5582.0, 5688.0, 5526.0, 5549.0, 5574.0, 5427.0, 5354.0, 5602.0, 5407.0, 5614.0, 5366.0, 5503.0, 5572.0, 5522.0 (number of hits: 4)
2	5500.0	9	1.0	333	1	5630.0, 5495.0, 5628.0, 5475.0, 5253.0, 5440.0, 5526.0, 5639.0, 5292.0, 5510.0, 5276.0, 5709.0, 5548.0, 5326.0, 5604.0, 5530.0, 5297.0, 5654.0, 5603.0, 5509.0, 5618.0, 5370.0, 5522.0, 5513.0, 5362.0, 5622.0, 5655.0, 5488.0, 5719.0, 5547.0, 5658.0, 5421.0, 5612.0, 5711.0, 5400.0, 5310.0, 5680.0, 5521.0, 5713.0, 5501.0, 5645.0, 5646.0, 5272.0, 5336.0, 5279.0, 5637.0, 5311.0, 5555.0, 5492.0, 5703.0, 5414.0, 5691.0, 5308.0, 5358.0, 5624.0, 5422.0, 5621.0, 5271.0, 5479.0, 5477.0, 5597.0, 5472.0, 5572.0, 5525.0, 5349.0, 5718.0, 5410.0, 5546.0, 5651.0, 5633.0, 5427.0, 5496.0, 5600.0, 5423.0, 5334.0, 5282.0, 5626.0, 5617.0, 5429.0, 5471.0, 5394.0, 5409.0, 5720.0, 5552.0, 5602.0, 5275.0, 5556.0, 5354.0, 5466.0, 5607.0, 5460.0, 5674.0, 5364.0, 5662.0, 5518.0, 5668.0, 5721.0, 5468.0, 5540.0, 5707.0 (number of hits: 4)
3	5500.0	9	1.0	333	1	5257.0, 5669.0, 5510.0, 5430.0, 5500.0, 5715.0, 5681.0, 5381.0, 5253.0, 5318.0, 5666.0, 5578.0, 5378.0, 5370.0, 5519.0, 5478.0, 5388.0, 5583.0, 5586.0, 5336.0, 5362.0, 5356.0, 5453.0, 5295.0, 5700.0, 5649.0, 5498.0, 5326.0, 5383.0, 5588.0, 5667.0, 5682.0, 5439.0, 5625.0, 5286.0, 5712.0, 5596.0, 5674.0, 5558.0, 5333.0, 5254.0, 5281.0, 5434.0, 5657.0, 5577.0, 5547.0, 5310.0, 5273.0, 5415.0, 5537.0, 5409.0, 5556.0, 5337.0, 5617.0, 5352.0, 5446.0, 5374.0, 5299.0, 5598.0, 5591.0, 5525.0, 5648.0, 5621.0, 5491.0, 5291.0, 5260.0, 5676.0, 5405.0, 5516.0, 5543.0, 5401.0, 5631.0, 5601.0, 5348.0, 5508.0, 5580.0, 5463.0, 5444.0, 5523.0, 5660.0, 5637.0, 5437.0, 5316.0, 5470.0, 5626.0, 5595.0, 5433.0, 5481.0, 5419.0, 5705.0, 5406.0, 5372.0, 5694.0, 5432.0, 5472.0, 5719.0, 5294.0, 5630.0, 5465.0, 5509.0 (number of hits: 4)
4	5500.0	9	1.0	333	1	5686.0, 5613.0, 5512.0, 5685.0, 5526.0, 5329.0, 5544.0, 5698.0, 5279.0, 5543.0, 5594.0, 5446.0, 5336.0, 5321.0, 5339.0, 5672.0, 5386.0, 5700.0, 5612.0, 5431.0, 5630.0, 5314.0, 5655.0, 5625.0, 5647.0, 5690.0, 5434.0, 5557.0, 5461.0, 5684.0, 5460.0, 5718.0, 5510.0, 5267.0, 5521.0, 5387.0, 5349.0, 5692.0, 5419.0, 5588.0, 5300.0, 5683.0, 5601.0, 5642.0, 5530.0, 5597.0, 5474.0, 5667.0, 5359.0, 5422.0, 5469.0, 5367.0, 5511.0, 5703.0, 5298.0, 5397.0, 5532.0, 5514.0, 5648.0, 5606.0, 5533.0, 5603.0, 5547.0,

						5715.0, 5641.0, 5516.0, 5472.0, 5342.0, 5539.0, 5454.0, 5632.0, 5318.0, 5457.0, 5394.0, 5263.0, 5459.0, 5576.0, 5256.0, 5548.0, 5285.0, 5312.0, 5583.0, 5675.0, 5618.0, 5274.0, 5360.0, 5668.0, 5303.0, 5368.0, 5701.0, 5545.0, 5702.0, 5370.0, 5676.0, 5449.0, 5585.0, 5639.0, 5377.0, 5680.0, 5492.0 (number of hits: 1)
5	5500.0	9	1.0	333	1	5359.0, 5641.0, 5691.0, 5458.0, 5352.0, 5459.0, 5680.0, 5341.0, 5695.0, 5619.0, 5611.0, 5524.0, 5623.0, 5317.0, 5464.0, 5461.0, 5266.0, 5694.0, 5281.0, 5532.0, 5544.0, 5489.0, 5467.0, 5491.0, 5671.0, 5663.0, 5700.0, 5387.0, 5256.0, 5686.0, 5679.0, 5607.0, 5470.0, 5321.0, 5559.0, 5597.0, 5534.0, 5669.0, 5261.0, 5613.0, 5492.0, 5372.0, 5552.0, 5689.0, 5631.0, 5672.0, 5374.0, 5545.0, 5483.0, 5357.0, 5541.0, 5598.0, 5315.0, 5667.0, 5621.0, 5579.0, 5553.0, 5495.0, 5653.0, 5445.0, 5508.0, 5448.0, 5328.0, 5684.0, 5650.0, 5670.0, 5319.0, 5473.0, 5406.0, 5498.0, 5709.0, 5626.0, 5440.0, 5624.0, 5329.0, 5646.0, 5542.0, 5316.0, 5481.0, 5681.0, 5363.0, 5699.0, 5487.0, 5297.0, 5409.0, 5602.0, 5585.0, 5402.0, 5431.0, 5262.0, 5538.0, 5420.0, 5390.0, 5347.0, 5530.0, 5452.0, 5284.0, 5398.0, 5550.0, 5572.0 (number of hits: 5)
6	5500.0	9	1.0	333	1	5489.0, 5269.0, 5487.0, 5553.0, 5265.0, 5533.0, 5682.0, 5511.0, 5531.0, 5573.0, 5722.0, 5721.0, 5525.0, 5416.0, 5686.0, 5354.0, 5510.0, 5567.0, 5536.0, 5434.0, 5423.0, 5613.0, 5647.0, 5324.0, 5477.0, 5440.0, 5497.0, 5360.0, 5395.0, 5524.0, 5540.0, 5545.0, 5296.0, 5274.0, 5380.0, 5400.0, 5575.0, 5635.0, 5679.0, 5661.0, 5271.0, 5312.0, 5551.0, 5607.0, 5345.0, 5565.0, 5350.0, 5438.0, 5562.0, 5632.0, 5314.0, 5486.0, 5455.0, 5287.0, 5556.0, 5466.0, 5377.0, 5259.0, 5594.0, 5662.0, 5710.0, 5408.0, 5382.0, 5584.0, 5506.0, 5396.0, 5488.0, 5453.0, 5689.0, 5428.0, 5554.0, 5491.0, 5369.0, 5695.0, 5496.0, 5723.0, 5409.0, 5598.0, 5419.0, 5252.0, 5582.0, 5505.0, 5450.0, 5652.0, 5490.0, 5357.0, 5634.0, 5370.0, 5330.0, 5458.0, 5714.0, 5319.0, 5461.0, 5518.0, 5581.0, 5625.0, 5482.0, 5388.0, 5520.0, 5570.0 (number of hits: 5)
7	5500.0	9	1.0	333	1	5613.0, 5561.0, 5573.0, 5526.0, 5671.0, 5500.0, 5362.0, 5643.0, 5335.0, 5633.0, 5717.0, 5611.0, 5385.0, 5279.0, 5586.0, 5501.0, 5608.0, 5635.0, 5277.0, 5582.0, 5642.0, 5393.0, 5505.0, 5617.0, 5711.0, 5702.0, 5546.0, 5636.0, 5549.0, 5295.0, 5262.0, 5591.0, 5553.0, 5343.0, 5332.0, 5411.0, 5416.0, 5584.0, 5274.0, 5338.0, 5334.0, 5454.0, 5278.0, 5481.0, 5697.0, 5386.0, 5644.0, 5581.0, 5666.0, 5710.0, 5314.0, 5578.0, 5355.0, 5551.0, 5384.0, 5280.0, 5290.0, 5463.0, 5447.0, 5254.0, 5698.0, 5618.0, 5510.0, 5259.0, 5388.0, 5341.0, 5539.0, 5431.0, 5630.0, 5394.0, 5603.0, 5506.0, 5273.0, 5668.0, 5580.0, 5374.0, 5256.0, 5402.0, 5287.0, 5451.0, 5331.0, 5495.0, 5270.0, 5634.0, 5307.0, 5429.0, 5350.0, 5657.0, 5672.0, 5704.0, 5502.0, 5375.0, 5400.0, 5627.0, 5284.0, 5412.0, 5436.0, 5661.0, 5336.0, 5508.0 (number of hits: 7)
8	5500.0	9	1.0	333	1	5665.0, 5436.0, 5518.0, 5623.0, 5515.0, 5412.0, 5520.0, 5593.0, 5285.0, 5565.0, 5687.0, 5492.0, 5500.0, 5564.0, 5326.0, 5391.0, 5526.0, 5477.0, 5335.0, 5345.0, 5568.0, 5472.0, 5582.0, 5337.0, 5336.0, 5365.0, 5510.0, 5362.0, 5537.0, 5704.0, 5693.0, 5667.0, 5585.0, 5479.0, 5531.0, 5713.0, 5524.0, 5507.0, 5475.0, 5576.0, 5605.0, 5720.0, 5511.0, 5304.0, 5266.0, 5274.0, 5273.0, 5330.0, 5671.0, 5331.0, 5516.0, 5599.0, 5470.0, 5314.0, 5269.0, 5280.0, 5490.0, 5346.0, 5466.0, 5429.0, 5277.0, 5527.0, 5418.0, 5533.0, 5607.0, 5367.0, 5478.0, 5493.0, 5439.0, 5639.0,

						5386.0, 5715.0, 5446.0, 5381.0, 5672.0, 5342.0, 5404.0, 5714.0, 5289.0, 5505.0, 5443.0, 5570.0, 5706.0, 5389.0, 5449.0, 5349.0, 5666.0, 5615.0, 5522.0, 5333.0, 5719.0, 5566.0, 5532.0, 5554.0, 5557.0, 5541.0, 5270.0, 5344.0, 5703.0, 5355.0 (number of hits: 5)
9	5500.0	9	1.0	333	1	5622.0, 5324.0, 5417.0, 5445.0, 5612.0, 5263.0, 5321.0, 5371.0, 5706.0, 5659.0, 5402.0, 5690.0, 5596.0, 5438.0, 5686.0, 5667.0, 5470.0, 5705.0, 5258.0, 5411.0, 5651.0, 5364.0, 5605.0, 5319.0, 5367.0, 5476.0, 5654.0, 5460.0, 5284.0, 5538.0, 5310.0, 5573.0, 5256.0, 5282.0, 5329.0, 5339.0, 5697.0, 5558.0, 5616.0, 5359.0, 5699.0, 5623.0, 5513.0, 5574.0, 5253.0, 5439.0, 5606.0, 5601.0, 5637.0, 5553.0, 5547.0, 5517.0, 5462.0, 5541.0, 5410.0, 5608.0, 5528.0, 5314.0, 5307.0, 5412.0, 5322.0, 5251.0, 5327.0, 5663.0, 5384.0, 5276.0, 5254.0, 5698.0, 5679.0, 5682.0, 5488.0, 5348.0, 5334.0, 5274.0, 5544.0, 5446.0, 5266.0, 5683.0, 5409.0, 5337.0, 5587.0, 5537.0, 5546.0, 5267.0, 5535.0, 5493.0, 5520.0, 5370.0, 5618.0, 5631.0, 5721.0, 5461.0, 5710.0, 5374.0, 5392.0, 5308.0, 5586.0, 5548.0, 5427.0, 5309.0 (number of hits: 1)
10	5500.0	9	1.0	333	1	5576.0, 5570.0, 5253.0, 5585.0, 5613.0, 5438.0, 5634.0, 5641.0, 5427.0, 5550.0, 5494.0, 5612.0, 5419.0, 5426.0, 5541.0, 5336.0, 5535.0, 5442.0, 5679.0, 5507.0, 5430.0, 5518.0, 5538.0, 5493.0, 5557.0, 5394.0, 5372.0, 5590.0, 5300.0, 5548.0, 5325.0, 5676.0, 5545.0, 5512.0, 5341.0, 5558.0, 5695.0, 5717.0, 5381.0, 5588.0, 5539.0, 5366.0, 5400.0, 5500.0, 5649.0, 5380.0, 5262.0, 5328.0, 5403.0, 5478.0, 5449.0, 5632.0, 5671.0, 5305.0, 5627.0, 5392.0, 5388.0, 5289.0, 5486.0, 5596.0, 5574.0, 5490.0, 5575.0, 5292.0, 5669.0, 5533.0, 5405.0, 5625.0, 5605.0, 5555.0, 5685.0, 5658.0, 5505.0, 5622.0, 5333.0, 5406.0, 5276.0, 5479.0, 5620.0, 5706.0, 5320.0, 5473.0, 5263.0, 5256.0, 5600.0, 5668.0, 5678.0, 5531.0, 5265.0, 5457.0, 5552.0, 5364.0, 5456.0, 5472.0, 5504.0, 5350.0, 5724.0, 5708.0, 5355.0, 5594.0 (number of hits: 6)
11	5500.0	9	1.0	333	1	5357.0, 5590.0, 5314.0, 5368.0, 5519.0, 5613.0, 5724.0, 5265.0, 5620.0, 5640.0, 5579.0, 5436.0, 5482.0, 5638.0, 5378.0, 5720.0, 5322.0, 5675.0, 5339.0, 5647.0, 5560.0, 5283.0, 5303.0, 5514.0, 5261.0, 5302.0, 5364.0, 5599.0, 5419.0, 5307.0, 5313.0, 5306.0, 5625.0, 5713.0, 5417.0, 5292.0, 5512.0, 5441.0, 5521.0, 5465.0, 5461.0, 5691.0, 5319.0, 5312.0, 5710.0, 5572.0, 5619.0, 5480.0, 5495.0, 5505.0, 5676.0, 5474.0, 5701.0, 5525.0, 5550.0, 5250.0, 5722.0, 5427.0, 5553.0, 5577.0, 5387.0, 5266.0, 5347.0, 5372.0, 5629.0, 5437.0, 5520.0, 5342.0, 5696.0, 5476.0, 5466.0, 5530.0, 5308.0, 5529.0, 5263.0, 5458.0, 5440.0, 5497.0, 5301.0, 5367.0, 5551.0, 5473.0, 5598.0, 5502.0, 5422.0, 5280.0, 5479.0, 5356.0, 5382.0, 5698.0, 5526.0, 5646.0, 5681.0, 5719.0, 5546.0, 5254.0, 5714.0, 5703.0, 5557.0, 5291.0 (number of hits: 4)
12	5500.0	9	1.0	333	0	

13	5500.0	9	1.0	333	1	5496.0, 5291.0, 5645.0, 5550.0, 5652.0, 5316.0, 5437.0, 5587.0, 5571.0, 5320.0, 5621.0, 5689.0, 5487.0, 5651.0, 5372.0, 5273.0, 5623.0, 5401.0, 5301.0, 5302.0, 5698.0, 5387.0, 5711.0, 5647.0, 5448.0, 5335.0, 5521.0, 5583.0, 5530.0, 5344.0, 5674.0, 5319.0, 5663.0, 5416.0, 5641.0, 5325.0, 5627.0, 5528.0, 5386.0, 5357.0, 5439.0, 5253.0, 5670.0, 5359.0, 5635.0, 5586.0, 5431.0, 5631.0, 5604.0, 5683.0, 5540.0, 5304.0, 5563.0, 5593.0, 5691.0, 5688.0, 5351.0, 5411.0, 5662.0, 5478.0, 5584.0, 5657.0, 5608.0, 5490.0, 5618.0, 5462.0, 5594.0, 5607.0, 5366.0, 5678.0, 5572.0, 5435.0, 5671.0, 5444.0, 5599.0, 5353.0, 5483.0, 5508.0, 5488.0, 5549.0, 5592.0, 5371.0, 5373.0, 5646.0, 5520.0, 5278.0, 5421.0, 5388.0, 5512.0, 5511.0, 5588.0, 5578.0, 5361.0, 5327.0, 5423.0, 5717.0, 5517.0, 5346.0, 5324.0, 5276.0 (number of hits: 2)
14	5500.0	9	1.0	333	1	5581.0, 5548.0, 5345.0, 5622.0, 5420.0, 5484.0, 5709.0, 5516.0, 5551.0, 5266.0, 5667.0, 5297.0, 5526.0, 5269.0, 5708.0, 5513.0, 5464.0, 5315.0, 5254.0, 5356.0, 5509.0, 5423.0, 5529.0, 5711.0, 5592.0, 5634.0, 5646.0, 5528.0, 5561.0, 5261.0, 5323.0, 5371.0, 5571.0, 5328.0, 5451.0, 5522.0, 5536.0, 5256.0, 5288.0, 5257.0, 5401.0, 5518.0, 5542.0, 5374.0, 5400.0, 5305.0, 5348.0, 5350.0, 5365.0, 5293.0, 5278.0, 5651.0, 5538.0, 5689.0, 5564.0, 5336.0, 5608.0, 5712.0, 5361.0, 5286.0, 5260.0, 5597.0, 5422.0, 5373.0, 5478.0, 5669.0, 5448.0, 5702.0, 5340.0, 5304.0, 5481.0, 5687.0, 5611.0, 5510.0, 5310.0, 5583.0, 5636.0, 5403.0, 5507.0, 5584.0, 5552.0, 5648.0, 5638.0, 5582.0, 5555.0, 5493.0, 5675.0, 5557.0, 5378.0, 5722.0, 5585.0, 5322.0, 5627.0, 5663.0, 5274.0, 5549.0, 5650.0, 5317.0, 5472.0, 5468.0 (number of hits: 2)
15	5500.0	9	1.0	333	1	5474.0, 5276.0, 5369.0, 5349.0, 5368.0, 5269.0, 5716.0, 5564.0, 5574.0, 5494.0, 5510.0, 5598.0, 5593.0, 5336.0, 5524.0, 5485.0, 5698.0, 5677.0, 5409.0, 5535.0, 5714.0, 5472.0, 5556.0, 5417.0, 5254.0, 5398.0, 5608.0, 5599.0, 5508.0, 5648.0, 5565.0, 5263.0, 5516.0, 5444.0, 5391.0, 5471.0, 5712.0, 5582.0, 5459.0, 5285.0, 5541.0, 5403.0, 5331.0, 5663.0, 5422.0, 5436.0, 5330.0, 5334.0, 5446.0, 5258.0, 5266.0, 5686.0, 5586.0, 5366.0, 5522.0, 5559.0, 5506.0, 5576.0, 5380.0, 5603.0, 5589.0, 5388.0, 5685.0, 5345.0, 5358.0, 5708.0, 5615.0, 5548.0, 5442.0, 5646.0, 5577.0, 5372.0, 5478.0, 5480.0, 5338.0, 5280.0, 5546.0, 5529.0, 5504.0, 5631.0, 5282.0, 5364.0, 5526.0, 5384.0, 5519.0, 5309.0, 5597.0, 5722.0, 5344.0, 5392.0, 5427.0, 5539.0, 5682.0, 5329.0, 5635.0, 5340.0, 5536.0, 5413.0, 5421.0, 5319.0 (number of hits: 4)
16	5500.0	9	1.0	333	1	5653.0, 5548.0, 5570.0, 5634.0, 5543.0, 5319.0, 5676.0, 5454.0, 5690.0, 5314.0, 5545.0, 5677.0, 5416.0, 5711.0, 5497.0, 5610.0, 5496.0, 5438.0, 5324.0, 5649.0, 5254.0, 5355.0, 5612.0, 5274.0, 5281.0, 5620.0, 5437.0, 5687.0, 5589.0, 5415.0, 5259.0, 5529.0, 5641.0, 5691.0, 5717.0, 5621.0, 5270.0, 5278.0, 5577.0, 5407.0, 5341.0, 5638.0, 5562.0, 5516.0, 5293.0, 5668.0, 5356.0, 5255.0, 5526.0, 5515.0, 5605.0, 5453.0, 5313.0, 5401.0, 5321.0, 5490.0, 5424.0, 5336.0, 5643.0, 5406.0, 5595.0, 5252.0, 5604.0, 5307.0, 5308.0, 5463.0, 5386.0, 5450.0, 5549.0, 5629.0, 5467.0, 5342.0, 5483.0, 5574.0, 5714.0, 5712.0, 5339.0, 5390.0, 5458.0, 5330.0, 5661.0, 5384.0, 5435.0, 5571.0, 5280.0, 5352.0, 5707.0, 5579.0, 5361.0, 5553.0, 5702.0,

						5584.0, 5654.0, 5273.0, 5353.0, 5507.0, 5616.0, 5328.0, 5511.0, 5556.0 (number of hits: 3)
17	5500.0	9	1.0	333	1	5579.0, 5266.0, 5356.0, 5567.0, 5598.0, 5676.0, 5662.0, 5590.0, 5311.0, 5497.0, 5326.0, 5713.0, 5459.0, 5264.0, 5611.0, 5474.0, 5653.0, 5253.0, 5317.0, 5599.0, 5282.0, 5652.0, 5595.0, 5257.0, 5649.0, 5445.0, 5412.0, 5701.0, 5651.0, 5295.0, 5422.0, 5455.0, 5644.0, 5288.0, 5648.0, 5617.0, 5256.0, 5358.0, 5707.0, 5381.0, 5525.0, 5390.0, 5564.0, 5292.0, 5684.0, 5524.0, 5271.0, 5637.0, 5685.0, 5670.0, 5478.0, 5565.0, 5338.0, 5404.0, 5438.0, 5385.0, 5577.0, 5587.0, 5376.0, 5666.0, 5700.0, 5533.0, 5411.0, 5380.0, 5312.0, 5366.0, 5502.0, 5643.0, 5560.0, 5492.0, 5484.0, 5342.0, 5548.0, 5300.0, 5614.0, 5368.0, 5618.0, 5424.0, 5465.0, 5378.0, 5401.0, 5432.0, 5628.0, 5667.0, 5273.0, 5669.0, 5327.0, 5513.0, 5536.0, 5429.0, 5447.0, 5489.0, 5355.0, 5307.0, 5408.0, 5703.0, 5479.0, 5393.0, 5294.0, 5677.0 (number of hits: 3)
18	5500.0	9	1.0	333	1	5602.0, 5492.0, 5320.0, 5447.0, 5413.0, 5548.0, 5294.0, 5704.0, 5369.0, 5609.0, 5347.0, 5285.0, 5374.0, 5589.0, 5332.0, 5256.0, 5466.0, 5712.0, 5333.0, 5351.0, 5677.0, 5316.0, 5334.0, 5569.0, 5556.0, 5430.0, 5718.0, 5297.0, 5395.0, 5634.0, 5493.0, 5266.0, 5702.0, 5386.0, 5280.0, 5612.0, 5261.0, 5464.0, 5496.0, 5639.0, 5418.0, 5446.0, 5660.0, 5617.0, 5376.0, 5610.0, 5270.0, 5498.0, 5302.0, 5471.0, 5623.0, 5306.0, 5252.0, 5452.0, 5441.0, 5257.0, 5433.0, 5650.0, 5582.0, 5603.0, 5519.0, 5703.0, 5449.0, 5605.0, 5384.0, 5335.0, 5352.0, 5264.0, 5648.0, 5364.0, 5405.0, 5303.0, 5474.0, 5357.0, 5455.0, 5679.0, 5409.0, 5358.0, 5509.0, 5296.0, 5550.0, 5485.0, 5489.0, 5635.0, 5284.0, 5619.0, 5437.0, 5502.0, 5621.0, 5460.0, 5315.0, 5542.0, 5378.0, 5293.0, 5341.0, 5343.0, 5710.0, 5691.0, 5439.0, 5530.0 (number of hits: 5)
19	5500.0	9	1.0	333	1	5328.0, 5466.0, 5456.0, 5683.0, 5382.0, 5371.0, 5580.0, 5386.0, 5541.0, 5464.0, 5483.0, 5431.0, 5522.0, 5437.0, 5496.0, 5374.0, 5636.0, 5458.0, 5321.0, 5693.0, 5655.0, 5399.0, 5303.0, 5552.0, 5348.0, 5554.0, 5296.0, 5597.0, 5312.0, 5689.0, 5533.0, 5537.0, 5453.0, 5429.0, 5411.0, 5274.0, 5670.0, 5305.0, 5534.0, 5562.0, 5661.0, 5463.0, 5293.0, 5474.0, 5403.0, 5412.0, 5292.0, 5710.0, 5251.0, 5503.0, 5702.0, 5294.0, 5322.0, 5724.0, 5486.0, 5648.0, 5478.0, 5626.0, 5663.0, 5591.0, 5565.0, 5398.0, 5297.0, 5525.0, 5476.0, 5550.0, 5256.0, 5646.0, 5551.0, 5434.0, 5282.0, 5250.0, 5703.0, 5404.0, 5701.0, 5475.0, 5266.0, 5353.0, 5637.0, 5276.0, 5479.0, 5594.0, 5570.0, 5602.0, 5579.0, 5649.0, 5631.0, 5526.0, 5521.0, 5635.0, 5505.0, 5668.0, 5609.0, 5659.0, 5539.0, 5424.0, 5333.0, 5390.0, 5275.0, 5480.0 (number of hits: 3)
20	5500.0	9	1.0	333	1	5531.0, 5389.0, 5480.0, 5342.0, 5638.0, 5432.0, 5549.0, 5290.0, 5633.0, 5501.0, 5361.0, 5408.0, 5545.0, 5407.0, 5515.0, 5711.0, 5416.0, 5455.0, 5448.0, 5481.0, 5520.0, 5631.0, 5490.0, 5626.0, 5525.0, 5697.0, 5610.0, 5528.0, 5596.0, 5569.0, 5510.0, 5403.0, 5541.0, 5547.0, 5322.0, 5474.0, 5255.0, 5723.0, 5508.0, 5611.0, 5379.0, 5665.0, 5278.0, 5537.0, 5304.0, 5666.0, 5396.0, 5418.0, 5331.0, 5658.0, 5373.0, 5266.0, 5718.0, 5527.0, 5297.0, 5599.0, 5488.0, 5353.0, 5532.0, 5720.0, 5556.0, 5623.0, 5410.0, 5707.0, 5397.0, 5579.0, 5693.0, 5319.0, 5709.0, 5365.0, 5694.0, 5338.0, 5674.0, 5655.0, 5287.0, 5491.0, 5309.0, 5259.0, 5482.0, 5478.0, 5264.0, 5574.0, 5317.0, 5334.0, 5288.0, 5568.0, 5606.0, 5461.0, 5314.0, 5546.0, 5642.0, 5533.0, 5686.0, 5517.0, 5452.0, 5636.0, 5296.0, 5714.0,

						5544.0, 5691.0 (number of hits: 3)
21	5500.0	9	1.0	333	1	5466.0, 5326.0, 5663.0, 5624.0, 5586.0, 5653.0, 5545.0, 5680.0, 5669.0, 5538.0, 5616.0, 5388.0, 5527.0, 5289.0, 5650.0, 5617.0, 5261.0, 5630.0, 5426.0, 5279.0, 5453.0, 5570.0, 5693.0, 5689.0, 5336.0, 5295.0, 5543.0, 5482.0, 5258.0, 5422.0, 5674.0, 5621.0, 5378.0, 5458.0, 5599.0, 5550.0, 5460.0, 5461.0, 5610.0, 5643.0, 5304.0, 5686.0, 5314.0, 5511.0, 5506.0, 5354.0, 5392.0, 5274.0, 5486.0, 5687.0, 5637.0, 5395.0, 5291.0, 5553.0, 5684.0, 5682.0, 5407.0, 5702.0, 5496.0, 5715.0, 5446.0, 5678.0, 5670.0, 5350.0, 5330.0, 5720.0, 5363.0, 5589.0, 5419.0, 5302.0, 5463.0, 5450.0, 5522.0, 5691.0, 5560.0, 5313.0, 5428.0, 5308.0, 5331.0, 5580.0, 5677.0, 5503.0, 5360.0, 5294.0, 5646.0, 5355.0, 5264.0, 5579.0, 5605.0, 5414.0, 5338.0, 5555.0, 5311.0, 5659.0, 5437.0, 5277.0, 5384.0, 5484.0, 5683.0, 5499.0 (number of hits: 4)
22	5500.0	9	1.0	333	1	5488.0, 5372.0, 5677.0, 5283.0, 5438.0, 5631.0, 5723.0, 5435.0, 5644.0, 5485.0, 5697.0, 5643.0, 5358.0, 5568.0, 5387.0, 5388.0, 5480.0, 5468.0, 5591.0, 5432.0, 5399.0, 5279.0, 5486.0, 5616.0, 5284.0, 5263.0, 5492.0, 5671.0, 5285.0, 5681.0, 5421.0, 5580.0, 5331.0, 5429.0, 5558.0, 5289.0, 5416.0, 5638.0, 5504.0, 5709.0, 5662.0, 5319.0, 5687.0, 5376.0, 5505.0, 5507.0, 5301.0, 5721.0, 5510.0, 5547.0, 5473.0, 5600.0, 5623.0, 5378.0, 5604.0, 5266.0, 5663.0, 5595.0, 5702.0, 5436.0, 5713.0, 5592.0, 5484.0, 5552.0, 5695.0, 5622.0, 5386.0, 5439.0, 5546.0, 5290.0, 5409.0, 5601.0, 5715.0, 5654.0, 5437.0, 5278.0, 5443.0, 5684.0, 5277.0, 5579.0, 5673.0, 5613.0, 5642.0, 5444.0, 5699.0, 5460.0, 5337.0, 5479.0, 5410.0, 5585.0, 5475.0, 5441.0, 5626.0, 5391.0, 5720.0, 5506.0, 5603.0, 5653.0, 5621.0, 5608.0 (number of hits: 5)
23	5500.0	9	1.0	333	1	5278.0, 5418.0, 5371.0, 5704.0, 5415.0, 5600.0, 5634.0, 5651.0, 5618.0, 5491.0, 5266.0, 5614.0, 5294.0, 5684.0, 5396.0, 5564.0, 5641.0, 5500.0, 5669.0, 5288.0, 5253.0, 5312.0, 5559.0, 5674.0, 5468.0, 5297.0, 5653.0, 5417.0, 5652.0, 5604.0, 5404.0, 5611.0, 5265.0, 5627.0, 5280.0, 5298.0, 5724.0, 5485.0, 5712.0, 5444.0, 5587.0, 5322.0, 5501.0, 5596.0, 5697.0, 5624.0, 5629.0, 5570.0, 5333.0, 5426.0, 5451.0, 5399.0, 5551.0, 5649.0, 5680.0, 5296.0, 5291.0, 5366.0, 5636.0, 5345.0, 5339.0, 5304.0, 5532.0, 5646.0, 5543.0, 5408.0, 5691.0, 5695.0, 5277.0, 5394.0, 5545.0, 5575.0, 5374.0, 5286.0, 5380.0, 5483.0, 5593.0, 5437.0, 5710.0, 5637.0, 5667.0, 5413.0, 5562.0, 5310.0, 5552.0, 5591.0, 5369.0, 5631.0, 5576.0, 5454.0, 5698.0, 5539.0, 5456.0, 5654.0, 5449.0, 5703.0, 5683.0, 5572.0, 5685.0, 5459.0 (number of hits: 3)
24	5500.0	9	1.0	333	1	5441.0, 5312.0, 5502.0, 5358.0, 5497.0, 5390.0, 5291.0, 5410.0, 5388.0, 5671.0, 5607.0, 5261.0, 5637.0, 5276.0, 5339.0, 5274.0, 5702.0, 5354.0, 5483.0, 5361.0, 5466.0, 5382.0, 5289.0, 5327.0, 5469.0, 5711.0, 5631.0, 5498.0, 5336.0, 5318.0, 5377.0, 5337.0, 5470.0, 5515.0, 5567.0, 5550.0, 5544.0, 5640.0, 5334.0, 5595.0, 5719.0, 5448.0, 5468.0, 5647.0, 5548.0, 5621.0, 5547.0, 5614.0, 5452.0, 5343.0, 5556.0, 5579.0, 5663.0, 5683.0, 5463.0, 5541.0, 5672.0, 5316.0, 5700.0, 5409.0, 5383.0, 5303.0, 5449.0, 5529.0, 5504.0, 5370.0, 5253.0, 5475.0, 5264.0, 5348.0, 5698.0, 5335.0, 5517.0, 5674.0, 5415.0, 5387.0, 5534.0, 5537.0, 5555.0, 5720.0, 5496.0, 5299.0, 5461.0, 5266.0, 5660.0, 5625.0, 5279.0, 5514.0, 5362.0, 5416.0, 5371.0, 5643.0, 5632.0, 5414.0, 5396.0, 5360.0, 5582.0, 5724.0, 5451.0, 5656.0 (number of hits: 5)

25	5500.0	9	1.0	333	1	5354.0, 5282.0, 5502.0, 5326.0, 5465.0, 5267.0, 5620.0, 5334.0, 5560.0, 5317.0, 5686.0, 5625.0, 5350.0, 5714.0, 5700.0, 5469.0, 5551.0, 5672.0, 5343.0, 5667.0, 5256.0, 5298.0, 5342.0, 5650.0, 5567.0, 5542.0, 5332.0, 5628.0, 5591.0, 5374.0, 5603.0, 5333.0, 5558.0, 5513.0, 5368.0, 5713.0, 5312.0, 5697.0, 5536.0, 5266.0, 5476.0, 5565.0, 5475.0, 5606.0, 5657.0, 5576.0, 5712.0, 5441.0, 5609.0, 5404.0, 5356.0, 5472.0, 5501.0, 5452.0, 5627.0, 5324.0, 5685.0, 5438.0, 5491.0, 5388.0, 5546.0, 5410.0, 5517.0, 5489.0, 5599.0, 5431.0, 5464.0, 5656.0, 5336.0, 5429.0, 5305.0, 5337.0, 5391.0, 5577.0, 5376.0, 5286.0, 5633.0, 5678.0, 5525.0, 5313.0, 5432.0, 5398.0, 5519.0, 5499.0, 5654.0, 5379.0, 5439.0, 5386.0, 5710.0, 5275.0, 5588.0, 5381.0, 5581.0, 5524.0, 5480.0, 5533.0, 5493.0, 5539.0, 5447.0, 5361.0 (number of hits: 5)
26	5500.0	9	1.0	333	1	5580.0, 5620.0, 5695.0, 5711.0, 5720.0, 5650.0, 5533.0, 5334.0, 5419.0, 5704.0, 5473.0, 5296.0, 5593.0, 5415.0, 5536.0, 5715.0, 5450.0, 5674.0, 5712.0, 5668.0, 5476.0, 5723.0, 5346.0, 5442.0, 5494.0, 5313.0, 5667.0, 5586.0, 5274.0, 5641.0, 5617.0, 5263.0, 5601.0, 5434.0, 5646.0, 5529.0, 5421.0, 5615.0, 5626.0, 5647.0, 5531.0, 5280.0, 5504.0, 5696.0, 5463.0, 5355.0, 5642.0, 5548.0, 5590.0, 5275.0, 5483.0, 5341.0, 5664.0, 5652.0, 5485.0, 5555.0, 5666.0, 5271.0, 5669.0, 5395.0, 5673.0, 5452.0, 5510.0, 5629.0, 5459.0, 5389.0, 5369.0, 5493.0, 5497.0, 5520.0, 5401.0, 5690.0, 5468.0, 5491.0, 5335.0, 5591.0, 5307.0, 5388.0, 5530.0, 5576.0, 5507.0, 5435.0, 5628.0, 5498.0, 5581.0, 5479.0, 5428.0, 5635.0, 5359.0, 5420.0, 5322.0, 5397.0, 5525.0, 5427.0, 5717.0, 5486.0, 5550.0, 5423.0, 5662.0, 5708.0 (number of hits: 7)
27	5500.0	9	1.0	333	1	5440.0, 5363.0, 5516.0, 5402.0, 5645.0, 5445.0, 5630.0, 5495.0, 5594.0, 5626.0, 5367.0, 5505.0, 5715.0, 5470.0, 5675.0, 5677.0, 5397.0, 5463.0, 5590.0, 5462.0, 5377.0, 5342.0, 5410.0, 5304.0, 5430.0, 5459.0, 5391.0, 5268.0, 5498.0, 5616.0, 5472.0, 5523.0, 5503.0, 5539.0, 5317.0, 5532.0, 5584.0, 5634.0, 5465.0, 5279.0, 5707.0, 5272.0, 5256.0, 5497.0, 5511.0, 5706.0, 5609.0, 5665.0, 5401.0, 5644.0, 5678.0, 5451.0, 5366.0, 5278.0, 5345.0, 5293.0, 5658.0, 5716.0, 5534.0, 5348.0, 5263.0, 5435.0, 5507.0, 5583.0, 5443.0, 5587.0, 5521.0, 5332.0, 5335.0, 5423.0, 5637.0, 5453.0, 5573.0, 5322.0, 5687.0, 5257.0, 5585.0, 5540.0, 5319.0, 5447.0, 5520.0, 5254.0, 5650.0, 5437.0, 5565.0, 5631.0, 5571.0, 5628.0, 5399.0, 5499.0, 5619.0, 5448.0, 5528.0, 5595.0, 5674.0, 5374.0, 5456.0, 5622.0, 5562.0, 5686.0 (number of hits: 7)
28	5500.0	9	1.0	333	1	5605.0, 5336.0, 5509.0, 5327.0, 5363.0, 5472.0, 5322.0, 5348.0, 5420.0, 5515.0, 5367.0, 5492.0, 5287.0, 5291.0, 5546.0, 5647.0, 5253.0, 5621.0, 5266.0, 5665.0, 5576.0, 5282.0, 5645.0, 5575.0, 5722.0, 5711.0, 5588.0, 5325.0, 5698.0, 5391.0, 5371.0, 5649.0, 5417.0, 5265.0, 5555.0, 5490.0, 5672.0, 5432.0, 5405.0, 5498.0, 5333.0, 5650.0, 5611.0, 5305.0, 5568.0, 5435.0, 5632.0, 5361.0, 5464.0, 5355.0, 5504.0, 5713.0, 5362.0, 5445.0, 5260.0, 5467.0, 5534.0, 5690.0, 5694.0, 5482.0, 5569.0, 5251.0, 5456.0, 5256.0, 5549.0, 5474.0, 5701.0, 5293.0, 5687.0, 5312.0, 5262.0, 5517.0, 5473.0, 5328.0, 5481.0, 5661.0, 5425.0, 5478.0, 5634.0, 5535.0, 5512.0, 5631.0, 5708.0, 5502.0, 5676.0, 5646.0, 5677.0, 5601.0, 5317.0, 5453.0, 5344.0, 5447.0, 5654.0, 5477.0, 5409.0, 5706.0, 5377.0, 5542.0, 5259.0, 5304.0 (number of hits: 4)
29	5500.0	9	1.0	333	1	5617.0, 5602.0, 5603.0, 5656.0, 5497.0, 5368.0, 5302.0,

						5557.0, 5493.0, 5347.0, 5482.0, 5280.0, 5692.0, 5475.0, 5521.0, 5606.0, 5314.0, 5444.0, 5591.0, 5598.0, 5438.0, 5267.0, 5642.0, 5549.0, 5513.0, 5416.0, 5367.0, 5489.0, 5629.0, 5510.0, 5454.0, 5527.0, 5283.0, 5470.0, 5685.0, 5348.0, 5547.0, 5695.0, 5706.0, 5335.0, 5597.0, 5468.0, 5452.0, 5519.0, 5492.0, 5350.0, 5623.0, 5563.0, 5634.0, 5671.0, 5346.0, 5469.0, 5635.0, 5578.0, 5370.0, 5650.0, 5619.0, 5345.0, 5681.0, 5621.0, 5465.0, 5566.0, 5329.0, 5590.0, 5661.0, 5417.0, 5718.0, 5618.0, 5463.0, 5512.0, 5570.0, 5298.0, 5716.0, 5467.0, 5456.0, 5411.0, 5707.0, 5441.0, 5708.0, 5715.0, 5336.0, 5323.0, 5500.0, 5387.0, 5487.0, 5250.0, 5613.0, 5631.0, 5667.0, 5516.0, 5447.0, 5275.0, 5544.0, 5614.0, 5253.0, 5474.0, 5532.0, 5272.0, 5382.0, 5263.0 (number of hits: 4)
30	5500.0	9	1.0	333	1	5429.0, 5472.0, 5717.0, 5673.0, 5277.0, 5304.0, 5565.0, 5278.0, 5305.0, 5397.0, 5529.0, 5708.0, 5386.0, 5711.0, 5596.0, 5522.0, 5459.0, 5426.0, 5270.0, 5542.0, 5566.0, 5398.0, 5539.0, 5377.0, 5464.0, 5493.0, 5618.0, 5463.0, 5540.0, 5329.0, 5668.0, 5371.0, 5600.0, 5338.0, 5294.0, 5276.0, 5688.0, 5521.0, 5628.0, 5342.0, 5498.0, 5422.0, 5359.0, 5536.0, 5581.0, 5262.0, 5320.0, 5384.0, 5553.0, 5417.0, 5316.0, 5689.0, 5416.0, 5321.0, 5679.0, 5654.0, 5291.0, 5544.0, 5486.0, 5678.0, 5576.0, 5326.0, 5579.0, 5641.0, 5558.0, 5355.0, 5577.0, 5547.0, 5364.0, 5345.0, 5363.0, 5311.0, 5438.0, 5552.0, 5412.0, 5474.0, 5604.0, 5458.0, 5352.0, 5453.0, 5674.0, 5714.0, 5575.0, 5273.0, 5530.0, 5361.0, 5410.0, 5419.0, 5667.0, 5640.0, 5335.0, 5518.0, 5457.0, 5639.0, 5503.0, 5450.0, 5593.0, 5255.0, 5681.0, 5624.0 (number of hits: 3)

**AP Mode
Pine Radio****5510 MHz, 40 MHz Bandwidth**

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1A/1B	30	96.7 %	60%	Pass
Type 2	30	83.3 %	60%	Pass
Type 3	30	86.7 %	60%	Pass
Type 4	30	76.7 %	60%	Pass
Aggregate (Type 1 to 4)	120	85.8 %	80%	Pass
Type 5	30	100 %	80%	Pass
Type 6	30	100 %	70%	Pass

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

Note: Radar was generated randomly in the frequency range of 5490-5530 MHz.

Trial #	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	72	1.0	738	1
2	76	1.0	698	1
3	59	1.0	898	1
4	92	1.0	578	1
5	57	1.0	938	1
6	81	1.0	658	1
7	62	1.0	858	1
8	78	1.0	678	1
9	89	1.0	598	1
10	67	1.0	798	1
11	86	1.0	618	1
12	74	1.0	718	0
13	83	1.0	638	1
14	65	1.0	818	1
15	67	1.0	518	1
16	31	1.0	1743	1
17	33	1.0	1649	1
18	62	1.0	864	1
19	21	1.0	2605	1
20	27	1.0	2008	1
21	102	1.0	519	1
22	37	1.0	1446	1
23	25	1.0	2170	1
24	27	1.0	1984	1
25	62	1.0	862	1
26	22	1.0	2456	1
27	33	1.0	1625	1
28	100	1.0	533	1
29	37	1.0	1427	1
30	60	1.0	890	1
Detection Percentage: 96.7 % (>60%)				

Table-2 Radar Type 2 Statistical Performance

Note: Radar was generated randomly in the frequency range of 5490-5530 MHz.

Trial #	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	29	1.5	196	1
2	23	1.1	163	1
3	28	4.8	198	1
4	24	1.1	189	1
5	28	3.2	205	1
6	23	2.3	200	1
7	24	5.0	193	1
8	24	3.6	229	1
9	29	3.3	160	1
10	29	1.7	197	0
11	27	3.5	227	1
12	28	4.1	169	1
13	26	3.9	178	1
14	26	4.5	178	1
15	25	4.2	199	0
16	26	1.1	152	1
17	24	3.1	220	1
18	23	4.2	160	1
19	28	3.8	201	1
20	23	1.6	229	1
21	27	2.9	196	0
22	29	1.9	187	1
23	26	2.3	221	1
24	23	4.9	173	0
25	24	4.8	209	1
26	24	2.4	177	1
27	26	2.5	200	1
28	25	1.5	155	0
29	23	2.2	162	1
30	24	3.1	204	1
Detection Percentage: 83.3 % (>60%)				

Table-3 Radar Type 3 Statistical Performance

Note: Radar was generated randomly in the frequency range of 5490-5530 MHz.

Trial #	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	16	9.4	482	1
2	18	8.2	353	1
3	17	7.7	341	1
4	17	9.1	296	1
5	16	6.7	244	1
6	17	7.0	442	1
7	17	7.1	308	0
8	18	8.0	354	1
9	16	7.9	341	1
10	16	8.9	275	1
11	16	8.5	409	1
12	17	9.2	336	1
13	18	9.6	379	0
14	17	8.1	419	1
15	18	7.2	487	1
16	17	9.8	217	1
17	18	8.3	316	1
18	17	7.7	229	1
19	17	8.8	500	1
20	18	6.7	220	1
21	16	7.7	357	0
22	18	10.0	428	0
23	18	7.4	493	1
24	18	9.5	251	1
25	17	7.7	342	1
26	18	10.0	392	1
27	18	7.1	406	1
28	18	7.5	285	1
29	16	8.1	381	1
30	16	7.7	389	1
Detection Percentage: 86.7 % (>60%)				

Table-4 Radar Type 4 Statistical Performance

Note: Radar was generated randomly in the frequency range of 5490-5530 MHz.

Trial #	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	14	17.4	320	1
2	16	12.8	305	1
3	15	18.4	409	0
4	14	16.8	315	1
5	15	17.2	240	1
6	14	14.2	446	0
7	16	13.7	285	1
8	13	18.1	226	1
9	13	17.1	478	1
10	13	13.0	465	0
11	13	16.3	299	1
12	16	12.1	273	1
13	16	12.4	457	1
14	16	19.0	339	1
15	12	15.3	462	1
16	13	17.1	202	1
17	12	13.0	441	1
18	15	12.1	428	0
19	15	19.4	329	1
20	15	17.0	494	1
21	15	13.1	392	1
22	16	12.4	211	0
23	12	11.6	305	1
24	13	12.6	259	0
25	15	11.7	220	1
26	15	11.9	447	1
27	15	19.7	263	1
28	14	15.4	405	1
a29	12	20.0	462	1
30	14	14.6	337	0
Detection Percentage: 76.7 % (>60%)				

Table-5 Radar Type 5 Statistical Performance

Trial #	Fc (MHz)	Detection (1:yes; 0:no)
1	5510	1
2	5510	1
3	5510	1
4	5510	1
5	5510	1
6	5510	1
7	5510	1
8	5510	1
9	5510	1
10	5510	1
11	5497.6	1
12	5500.0	1
13	5496.0	1
14	5495.6	1
15	5498.8	1
16	5499.2	1
17	5498.0	1
18	5499.6	1
19	5494.8	1
20	5497.2	1
21	5526.0	1
22	5521.6	1
23	5521.2	1
24	5520.8	1
25	5521.6	1
26	5522.0	1
27	5520.4	1
28	5524.4	1
29	5520.8	1
30	5522.0	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	3	12	85.7	1484	1878	0.618181	1
1	2	12	95.0	1409		1.132669	
2	3	12	81.0	1398	1909	2.003124	
3	2	12	52.6	1850		2.401009	
4	1	12	92.3			3.215587	
5	3	12	88.9	1901	1458	3.551280	
6	1	12	53.5			4.335136	
7	3	12	80.5	1015	1326	5.430783	
8	3	12	79.6	1845	1761	5.660010	
9	2	12	54.7	1612		6.504618	
10	2	12	74.7	1400		7.702590	
11	2	12	64.3	1836		7.930381	
12	3	12	81.2	1988	1753	8.674802	
13	1	12	97.0			9.795555	
14	2	12	99.2	1621		10.234298	
15	1	12	53.7			11.062103	
16	1	12	82.7			11.965303	

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	14	57.7	1939	1397	0.180842	1
1	1	14	71.8			1.148877	
2	2	14	99.8	1127		2.099394	
3	2	14	71.0	1005		2.896583	
4	1	14	50.1			3.886667	
5	1	14	78.5			4.759632	
6	3	14	82.0	1993	1048	5.024921	
7	2	14	57.7	1044		6.249001	
8	2	14	97.7	1266		6.764601	
9	1	14	74.8			7.490854	
10	2	14	91.9	1645		8.578940	
11	3	14	98.1	1898	1733	9.428854	
12	1	14	66.6			10.091576	
13	1	14	68.3			10.645373	
14	3	14	58.3	1427	1727	11.649394	

Bin5 Statistics 3

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	15	85.4	1043		0.318120	1
1	1	15	98.7			1.026366	
2	2	15	70.4	1135		1.664936	
3	3	15	80.4	1255	1277	2.671979	
4	2	15	87.7	1809		3.177567	
5	2	15	58.4	1504		4.100769	
6	2	15	66.3	1193		5.077834	
7	2	15	51.1	1286		5.835156	
8	2	15	75.2	1830		6.468075	
9	1	15	98.2			7.436140	
10	2	15	67.0	1307		8.081764	
11	3	15	87.5	1386	1060	8.901608	
12	2	15	87.4	1694		9.635292	
13	1	15	72.2			10.186628	
14	2	15	77.7	1262		10.709854	
15	3	15	84.3	1859	1615	11.661597	

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	79.3			0.631724	1
1	2	14	67.3	1106		1.741485	
2	2	14	53.3	1727		2.657106	
3	2	14	63.2	1952		3.804490	
4	2	14	64.8	1713		4.868518	
5	1	14	73.1			6.040576	
6	2	14	61.6	1583		6.568509	
7	1	14	83.5			8.129597	
8	3	14	72.6	1065	1462	9.319398	
9	3	14	55.1	1846	1352	10.129595	
10	2	14	50.2	1933		11.642279	

Bin5 Statistics 5

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	9	55.4	1147		0.548425	1
1	1	9	89.3			0.992741	
2	2	9	60.7	1686		1.665479	
3	1	9	74.0			2.753545	
4	2	9	59.7	1351		3.133126	
5	1	9	87.7			3.827760	
6	2	9	58.0	1772		4.648044	
7	3	9	71.3	1887	1802	5.102837	
8	2	9	67.8	1050		5.987960	
9	2	9	68.0	1140		6.422964	
10	2	9	57.2	1555		7.369469	
11	3	9	83.9	1492	1863	7.893415	
12	1	9	80.1			8.514544	
13	1	9	85.4			9.599686	
14	1	9	54.3			10.283389	
15	3	9	62.7	1011	1747	11.029875	
16	2	9	99.2	1878		11.592819	

Bin5 Statistics 6

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	12	53.1			0.952973	1
1	2	12	90.0	1372		1.372652	
2	2	12	82.5	1317		2.439469	
3	1	12	78.0			3.707340	
4	3	12	73.9	1807	1997	4.896186	
5	2	12	59.6	1170		5.539476	
6	2	12	63.4	1616		6.806772	
7	3	12	84.8	1759	1854	8.404741	
8	2	12	52.4	1480		9.309421	
9	3	12	74.9	1128	1726	10.026173	
10	2	12	64.7	1006		11.786694	

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	7	73.4	1915	1804	0.142868	1
1	3	7	66.5	1552	1146	1.249343	
2	1	7	87.6			1.530523	
3	2	7	69.6	1988		2.457304	
4	1	7	63.2			2.957353	
5	2	7	63.7	1382		3.219953	
6	2	7	59.8	1657		4.095634	
7	3	7	95.0	1973	1514	4.682093	
8	3	7	51.0	1123	1211	5.364284	
9	1	7	67.2			5.744551	
10	1	7	96.9			6.715015	
11	2	7	81.6	1229		7.315479	
12	1	7	67.0			8.199115	
13	2	7	74.5	1471		8.708018	
14	3	7	70.4	1710	1729	9.178359	
15	2	7	60.5	1229		9.759929	
16	2	7	93.7	1653		10.555074	
17	2	7	99.6	1769		11.286007	
18	2	7	82.4	1650		11.648674	

Bin5 Statistics 8

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	11	91.0	1566		0.719406	1
1	2	11	85.4	1836		0.857720	
2	1	11	73.1			1.768781	
3	2	11	93.2	1018		3.362755	
4	1	11	78.6			3.726588	
5	3	11	53.4	1358	1962	4.310829	
6	2	11	79.3	1797		5.359498	
7	3	11	67.6	1743	1510	6.400090	
8	1	11	73.4			6.930191	
9	3	11	96.9	1146	1865	8.099286	
10	2	11	69.9	1465		8.750918	
11	1	11	90.7			9.855841	
12	3	11	64.6	1823	1910	11.006105	
13	1	11	94.4			11.275252	

Bin5 Statistics 9

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	12	98.1	1208		1.054522	1
1	1	12	92.3			1.776251	
2	3	12	52.2	1939	1584	3.146961	
3	1	12	97.3			4.197130	
4	2	12	94.8	1673		6.110117	
5	2	12	60.3	1216		6.738234	
6	3	12	66.3	1528	1854	8.030113	
7	1	12	52.5			10.583865	
8	3	12	55.6	1261	1435	11.852554	

Bin5 Statistics 10

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	8	88.3	1388	1847	0.671112	1
1	3	8	92.0	1215	1023	1.036116	
2	2	8	91.8	1059		1.726494	
3	3	8	79.9	1543	1074	2.722723	
4	2	8	76.0	1497		3.869746	
5	1	8	85.4			4.587765	
6	2	8	100.0	1161		5.022343	
7	2	8	67.9	1902		5.815664	
8	2	8	71.7	1876		7.186360	
9	1	8	88.5			7.825860	
10	2	8	83.0	1854		8.089591	
11	3	8	82.1	1617	1668	9.051765	
12	2	8	59.5	1097		10.224979	
13	3	8	93.3	1593	1509	10.828159	
14	2	8	59.7	1312		11.641847	

Bin5 Statistics 11

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	14	87.4			0.149033	1
1	1	14	91.3			1.145138	
2	1	14	53.0			2.234460	
3	2	14	51.3	1523		3.016303	
4	2	14	94.8	1220		3.264874	
5	3	14	54.5	1837	1967	4.156345	
6	1	14	55.2			4.934709	
7	2	14	70.0	1004		6.190556	
8	2	14	84.9	1751		7.187652	
9	2	14	82.6	1574		7.538336	
10	2	14	51.9	1397		8.454754	
11	3	14	91.1	1387	1450	9.536787	
12	3	14	81.6	1639	1359	10.218917	
13	2	14	52.4	1625		10.866024	
14	2	14	91.4	1558		11.468509	

Bin5 Statistics 12

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	20	68.4	1136	1341	0.021361	1
1	3	20	85.5	1066	1831	1.263586	
2	2	20	77.6	1634		2.252966	
3	3	20	53.3	1915	1486	2.815808	
4	2	20	71.3	1223		3.575074	
5	2	20	71.1	1558		4.506009	
6	2	20	60.8	1026		5.544748	
7	2	20	86.3	1327		6.018473	
8	2	20	76.5	1292		6.762517	
9	2	20	76.2	1121		7.892867	
10	1	20	75.3			8.255594	
11	3	20	62.1	1563	1681	9.485642	
12	2	20	83.7	1250		10.198266	
13	1	20	98.6			10.897437	
14	1	20	86.7			11.412485	

Bin5 Statistics 13

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	10	90.7	1416	1536	0.899933	1
1	2	10	72.7	1977		1.292016	
2	2	10	93.0	1792		3.134386	
3	1	10	76.7			3.361053	
4	2	10	98.9	1531		4.536721	
5	2	10	61.9	1886		6.459933	
6	1	10	86.3			7.363334	
7	2	10	67.9	1952		8.361742	
8	1	10	53.9			9.675899	
9	3	10	69.9	1405	1667	10.097677	
10	2	10	82.1	1659		11.323493	

Bin5 Statistics 14

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	9	83.3			0.246271	1
1	2	9	82.7	1541		1.589650	
2	3	9	57.5	1254	1673	1.622156	
3	2	9	59.3	1081		2.950567	
4	3	9	85.5	1300	1036	3.755709	
5	3	9	71.1	1881	1637	4.554298	
6	2	9	70.4	1530		5.397437	
7	2	9	76.6	1331		5.837222	
8	3	9	67.8	1316	1543	6.691027	
9	2	9	97.0	1368		7.320458	
10	2	9	59.8	1720		8.736726	
11	2	9	55.2	1404		8.875204	
12	2	9	64.3	1701		9.615153	
13	1	9	78.8			11.073058	
14	1	9	65.4			11.941647	

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	17	65.2			0.069397	1
1	2	17	55.6	1070		1.196173	
2	2	17	62.1	1020		1.834917	
3	1	17	58.9			2.073276	
4	3	17	78.8	1778	1018	2.866191	
5	3	17	54.3	1799	1888	3.375025	
6	1	17	71.6			4.315866	
7	2	17	81.4	1468		4.928845	
8	1	17	54.9			5.272711	
9	1	17	75.2			6.215488	
10	1	17	79.9			6.548056	
11	3	17	71.4	1710	1909	7.262094	
12	2	17	66.0	1682		7.941419	
13	2	17	66.7	1592		8.392304	
14	3	17	91.4	1003	1393	9.372772	
15	1	17	89.3			9.614829	
16	2	17	85.1	1675		10.303942	
17	2	17	92.7	1213		11.284901	
18	3	17	64.1	1257	1707	11.535340	

Bin5 Statistics 16

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	18	84.1	1829		0.559060	1
1	3	18	90.3	1863	1375	1.716020	
2	2	18	68.1	1925		3.427916	
3	1	18	90.1			4.247555	
4	1	18	65.7			5.362368	
5	1	18	93.1			7.771986	
6	2	18	71.4	1190		8.699854	
7	3	18	78.1	1068	1274	9.523885	
8	1	18	85.5			10.828153	

Bin5 Statistics 17

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	15	79.1			0.338513	1
1	3	15	72.2	1109	1358	1.279200	
2	2	15	94.7	1258		1.558560	
3	2	15	98.5	1524		2.715924	
4	2	15	90.5	1788		3.125179	
5	3	15	97.0	1296	1564	3.865729	
6	1	15	89.4			4.381618	
7	2	15	88.7	1506		5.284730	
8	1	15	85.3			5.743721	
9	2	15	98.3	1776		6.642154	
10	2	15	74.6	1476		7.287015	
11	2	15	87.6	1532		8.161941	
12	1	15	97.3			8.816639	
13	1	15	52.3			9.219327	
14	2	15	91.5	1955		10.342397	
15	2	15	65.9	1496		10.984517	
16	2	15	64.6	1500		11.898047	

Bin5 Statistics 18

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	19	90.7	1700		0.165499	1
1	3	19	96.6	1384	1686	1.443556	
2	2	19	57.7	1266		2.481688	
3	2	19	99.5	1994		2.878488	
4	1	19	70.7			4.508714	
5	1	19	51.9			5.186092	
6	2	19	68.6	1170		5.780380	
7	2	19	69.7	1245		7.371396	
8	3	19	72.6	1079	1084	8.291521	
9	2	19	77.1	1482		8.501546	
10	3	19	99.9	1297	1922	10.082680	
11	3	19	82.5	1627	1218	10.337545	
12	1	19	64.8			11.833313	

Bin5 Statistics 19

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	7	67.9			0.437671	1
1	2	7	87.3	1280		1.211808	
2	2	7	100.0	1808		2.602143	
3	2	7	58.2	1871		3.559538	
4	2	7	66.1	1434		3.869111	
5	3	7	50.1	1632	1625	5.445853	
6	3	7	97.3	1094	1720	5.945854	
7	3	7	84.6	1874	1171	6.547093	
8	1	7	93.9			7.971677	
9	2	7	51.6	1459		8.643453	
10	1	7	65.2			9.590407	
11	3	7	76.9	1337	1325	10.702117	
12	2	7	60.0	1694		11.449905	

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	13	63.5	1925		0.999015	1
1	2	13	83.3	1452		1.226067	
2	1	13	85.2			2.287111	
3	3	13	63.2	1087	1471	3.590168	
4	3	13	88.8	1029	1065	5.447211	
5	2	13	67.7	1334		6.124360	
6	2	13	87.3	1113		7.183425	
7	2	13	61.1	1231		7.742534	
8	3	13	68.0	1346	1257	9.003451	
9	2	13	53.4	1901		10.871775	
10	3	13	58.8	1141	1231	11.241269	

Bin5 Statistics 21

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	5	53.2	1945	1793	0.118545	1
1	2	5	93.0	1759		0.841743	
2	3	5	88.2	1983	1505	1.989702	
3	1	5	78.0			2.544719	
4	3	5	62.1	1038	1174	3.068484	
5	3	5	87.1	1493	1637	3.767592	
6	3	5	56.4	1746	1536	5.239276	
7	2	5	69.7	1123		5.818906	
8	3	5	65.9	1532	1689	6.395403	
9	3	5	80.8	1547	1855	6.766381	
10	2	5	80.8	1768		8.217403	
11	3	5	57.6	1440	1760	8.958330	
12	2	5	50.8	1548		9.160535	
13	1	5	51.1			9.778279	
14	2	5	81.5	1064		10.820654	
15	1	5	95.5			11.601740	

Bin5 Statistics 22

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	16	79.0	1256		0.046770	0
1	2	16	71.0	1614		1.852267	
2	2	16	98.0	1431		2.037184	
3	1	16	80.7			3.076135	
4	2	16	83.5	1689		4.888731	
5	2	16	95.2	1406		5.035134	
6	1	16	98.1			6.469827	
7	2	16	96.8	1511		7.491350	
8	3	16	81.8	1651	1070	8.947211	
9	2	16	62.4	1312		9.991616	
10	1	16	87.4			10.122414	
11	2	16	88.4	1121		11.462745	

Bin5 Statistics 23

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	17	61.9	1346		0.196376	1
1	3	17	85.9	1247	1752	1.984171	
2	2	17	81.7	1503		3.224304	
3	2	17	97.8	1118		4.200440	
4	1	17	66.4			5.358360	
5	2	17	65.9	1001		6.971086	
6	2	17	97.0	1971		8.809639	
7	3	17	63.6	1716	1227	10.458569	
8	3	17	83.2	1762	1948	11.626964	

Bin5 Statistics 24

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	18	99.1			0.476652	1
1	2	18	77.3	1162		1.121114	
2	3	18	98.7	1690	1694	2.756020	
3	3	18	74.3	1837	1454	3.671377	
4	1	18	55.7			4.602336	
5	1	18	90.7			5.475569	
6	3	18	72.2	1104	1380	6.227905	
7	3	18	95.8	1171	1955	6.760167	
8	3	18	89.2	1868	1630	8.089427	
9	3	18	88.3	1365	1309	8.864681	
10	2	18	76.6	1744		9.262987	
11	2	18	64.8	1853		10.901268	
12	3	18	54.4	1319	1313	11.535902	

Bin5 Statistics 25

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	16	78.6	1615		0.009867	1
1	2	16	83.2	1646		1.132724	
2	2	16	53.9	1598		1.325998	
3	3	16	95.6	1123	1242	2.189584	
4	2	16	92.2	1425		3.004862	
5	3	16	64.1	1289	1236	3.491867	
6	1	16	65.4			3.864473	
7	1	16	55.8			4.626699	
8	1	16	65.1			5.275583	
9	3	16	94.7	1100	1040	5.933745	
10	3	16	94.8	1581	1767	6.861313	
11	1	16	97.2			7.415373	
12	1	16	80.5			8.037331	
13	3	16	60.6	1371	1484	8.442730	
14	2	16	80.8	1177		9.234428	
15	2	16	75.8	1394		9.883115	
16	2	16	76.2	1927		10.629344	
17	2	16	67.3	1067		11.046378	
18	2	16	56.2	1259		11.602535	

Bin5 Statistics 26

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	15	78.1	1538		0.152346	0
1	2	15	59.8	1505		1.031263	
2	1	15	94.2			1.796891	
3	3	15	87.9	1264	1114	3.087429	
4	1	15	84.2			3.643776	
5	2	15	75.4	1220		4.721416	
6	2	15	72.8	1152		5.813237	
7	2	15	89.1	1331		6.712568	
8	2	15	86.3	1695		7.662006	
9	2	15	64.0	1673		8.052120	
10	3	15	83.8	1462	1768	8.686547	
11	1	15	68.6			9.888380	
12	2	15	61.9	1894		10.795130	
13	3	15	69.4	1250	1920	11.958784	

Bin5 Statistics 27

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	19	54.2			0.683920	1
1	2	19	98.1	1124		0.756736	
2	3	19	83.4	1141	1582	1.550950	
3	3	19	64.0	1821	1595	2.259018	
4	3	19	60.5	1870	1850	3.367836	
5	2	19	91.7	1072		4.248453	
6	2	19	54.0	1224		5.017691	
7	1	19	60.8			5.974471	
8	1	19	92.8			6.204731	
9	3	19	84.9	1326	1277	7.246825	
10	2	19	98.1	1224		8.044583	
11	3	19	64.5	1597	1734	8.477845	
12	1	19	75.1			9.080907	
13	2	19	63.9	1770		9.851599	
14	3	19	71.5	1335	1497	10.638504	
15	1	19	81.9			11.887942	

Bin5 Statistics 28

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	9	60.9	1558		0.682490	1
1	2	9	85.1	1271		0.995825	
2	2	9	94.5	1369		2.728412	
3	1	9	67.7			3.584601	
4	2	9	76.1	1620		3.737643	
5	3	9	84.1	1252	1777	5.057054	
6	3	9	88.7	1962	1395	6.132260	
7	3	9	62.4	1331	1052	6.598908	
8	2	9	87.5	1448		7.979088	
9	2	9	99.4	1339		8.480659	
10	2	9	94.3	1854		9.580421	
11	3	9	95.2	1335	1896	10.476651	
12	1	9	92.2			11.972870	

Bin5 Statistics 29

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	18	56.0	1626	1442	0.543732	1
1	2	18	64.1	1350		1.555868	
2	1	18	50.8			2.658764	
3	3	18	87.9	1774	1104	3.007996	
4	2	18	61.4	1698		4.427286	
5	2	18	99.4	1651		5.247964	
6	2	18	51.2	1845		6.147810	
7	2	18	98.5	1486		6.643815	
8	3	18	88.0	1004	1765	8.235753	
9	2	18	93.5	1174		8.643084	
10	3	18	55.2	1961	1156	9.733965	
11	1	18	56.5			10.851445	
12	2	18	83.9	1569		11.843904	

Bin5 Statistics 30

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	15	59.7	1802	1822	0.448283	1
1	1	15	76.5			1.388864	
2	1	15	58.3			1.728129	
3	3	15	52.9	1997	1081	2.422989	
4	3	15	58.2	1033	1506	3.130060	
5	3	15	59.7	1274	1332	4.139674	
6	1	15	79.1			4.997535	
7	1	15	96.6			5.352719	
8	2	15	50.0	1112		6.375145	
9	1	15	83.4			7.022853	
10	3	15	62.5	1055	1327	7.570422	
11	3	15	95.9	1107	1078	8.633530	
12	2	15	62.4	1976		9.225102	
13	2	15	52.9	1259		9.943966	
14	2	15	81.1	1328		10.722164	
15	1	15	62.3			11.375333	

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	5510.0	9	1.0	333	1	5375.0, 5654.0, 5649.0, 5443.0, 5354.0, 5691.0, 5304.0, 5314.0, 5286.0, 5420.0, 5424.0, 5586.0, 5647.0, 5705.0, 5570.0, 5693.0, 5302.0, 5588.0, 5394.0, 5567.0, 5607.0, 5477.0, 5390.0, 5715.0, 5657.0, 5491.0, 5313.0, 5602.0, 5554.0, 5257.0, 5347.0, 5587.0, 5685.0, 5358.0, 5383.0, 5403.0, 5350.0, 5517.0, 5622.0, 5373.0, 5407.0, 5322.0, 5565.0, 5294.0, 5640.0, 5563.0, 5613.0, 5659.0, 5580.0, 5494.0, 5316.0, 5487.0, 5448.0, 5538.0, 5525.0, 5331.0, 5596.0, 5528.0, 5463.0, 5610.0, 5518.0, 5393.0, 5365.0, 5503.0, 5701.0, 5271.0, 5330.0, 5558.0, 5395.0, 5664.0, 5569.0, 5549.0, 5272.0, 5492.0, 5321.0, 5710.0, 5694.0, 5406.0, 5464.0, 5256.0, 5618.0, 5496.0, 5695.0, 5629.0, 5508.0, 5412.0, 5399.0, 5592.0, 5536.0, 5663.0, 5382.0, 5349.0, 5506.0, 5425.0, 5510.0, 5402.0, 5712.0, 5346.0, 5501.0, 5426.0 (number of hits: 11)
2	5510.0	9	1.0	333	1	5709.0, 5549.0, 5345.0, 5356.0, 5487.0, 5298.0, 5566.0, 5537.0, 5586.0, 5389.0, 5450.0, 5592.0, 5502.0, 5425.0, 5479.0, 5647.0, 5323.0, 5390.0, 5271.0, 5581.0, 5521.0, 5440.0, 5612.0, 5527.0, 5334.0, 5509.0, 5711.0, 5530.0, 5451.0, 5569.0, 5340.0, 5358.0, 5648.0, 5375.0, 5587.0, 5490.0, 5706.0, 5721.0, 5445.0, 5286.0, 5252.0, 5477.0, 5436.0, 5552.0, 5535.0, 5503.0, 5715.0, 5433.0, 5575.0, 5420.0, 5506.0, 5704.0, 5455.0, 5630.0, 5608.0, 5679.0, 5496.0, 5427.0, 5429.0, 5351.0, 5316.0, 5259.0, 5600.0, 5378.0, 5293.0, 5482.0, 5710.0, 5532.0, 5554.0, 5485.0, 5460.0, 5533.0, 5317.0, 5641.0, 5516.0, 5288.0, 5692.0, 5406.0, 5683.0, 5671.0, 5294.0, 5310.0, 5577.0, 5415.0, 5611.0, 5352.0, 5379.0, 5257.0, 5622.0, 5571.0, 5355.0, 5413.0, 5462.0, 5705.0, 5452.0, 5595.0, 5655.0, 5385.0, 5558.0, 5290.0 (number of hits: 8)
3	5510.0	9	1.0	333	1	5617.0, 5406.0, 5675.0, 5350.0, 5564.0, 5671.0, 5345.0, 5484.0, 5414.0, 5442.0, 5648.0, 5439.0, 5567.0, 5552.0, 5495.0, 5628.0, 5575.0, 5456.0, 5635.0, 5264.0, 5623.0, 5654.0, 5504.0, 5305.0, 5479.0, 5300.0, 5694.0, 5307.0, 5444.0, 5587.0, 5351.0, 5578.0, 5318.0, 5304.0, 5284.0, 5518.0, 5288.0, 5474.0, 5664.0, 5604.0, 5478.0, 5543.0, 5404.0, 5651.0, 5472.0, 5491.0, 5561.0, 5538.0, 5430.0, 5454.0, 5541.0, 5492.0, 5374.0, 5521.0, 5723.0, 5315.0, 5308.0, 5340.0, 5287.0, 5524.0, 5331.0, 5692.0, 5396.0, 5347.0, 5643.0,

						5607.0, 5353.0, 5610.0, 5534.0, 5710.0, 5359.0, 5393.0, 5292.0, 5629.0, 5309.0, 5501.0, 5645.0, 5632.0, 5294.0, 5388.0, 5532.0, 5644.0, 5410.0, 5357.0, 5550.0, 5640.0, 5656.0, 5375.0, 5314.0, 5646.0, 5642.0, 5597.0, 5462.0, 5259.0, 5659.0, 5382.0, 5650.0, 5708.0, 5510.0, 5577.0 (number of hits: 8)
4	5510.0	9	1.0	333	1	5452.0, 5269.0, 5410.0, 5450.0, 5650.0, 5387.0, 5568.0, 5381.0, 5417.0, 5399.0, 5267.0, 5354.0, 5343.0, 5421.0, 5540.0, 5370.0, 5576.0, 5564.0, 5501.0, 5573.0, 5281.0, 5537.0, 5553.0, 5558.0, 5438.0, 5665.0, 5441.0, 5675.0, 5272.0, 5722.0, 5608.0, 5541.0, 5692.0, 5336.0, 5637.0, 5283.0, 5534.0, 5544.0, 5480.0, 5621.0, 5488.0, 5300.0, 5340.0, 5524.0, 5595.0, 5436.0, 5482.0, 5616.0, 5565.0, 5465.0, 5486.0, 5320.0, 5335.0, 5380.0, 5655.0, 5645.0, 5350.0, 5539.0, 5492.0, 5411.0, 5404.0, 5517.0, 5390.0, 5531.0, 5424.0, 5369.0, 5671.0, 5526.0, 5401.0, 5643.0, 5538.0, 5337.0, 5552.0, 5668.0, 5463.0, 5626.0, 5478.0, 5700.0, 5391.0, 5701.0, 5273.0, 5634.0, 5494.0, 5279.0, 5707.0, 5559.0, 5430.0, 5264.0, 5719.0, 5632.0, 5435.0, 5357.0, 5407.0, 5378.0, 5333.0, 5400.0, 5705.0, 5446.0, 5386.0, 5328.0 (number of hits: 6)
5	5510.0	9	1.0	333	1	5689.0, 5273.0, 5584.0, 5440.0, 5698.0, 5577.0, 5672.0, 5258.0, 5647.0, 5365.0, 5424.0, 5453.0, 5536.0, 5414.0, 5685.0, 5373.0, 5521.0, 5430.0, 5556.0, 5353.0, 5626.0, 5644.0, 5346.0, 5420.0, 5387.0, 5486.0, 5633.0, 5594.0, 5350.0, 5360.0, 5275.0, 5569.0, 5664.0, 5399.0, 5645.0, 5501.0, 5533.0, 5615.0, 5334.0, 5694.0, 5564.0, 5359.0, 5372.0, 5449.0, 5279.0, 5296.0, 5442.0, 5291.0, 5650.0, 5471.0, 5299.0, 5362.0, 5410.0, 5530.0, 5580.0, 5543.0, 5272.0, 5307.0, 5598.0, 5479.0, 5635.0, 5634.0, 5351.0, 5480.0, 5509.0, 5277.0, 5409.0, 5603.0, 5402.0, 5670.0, 5396.0, 5681.0, 5331.0, 5310.0, 5262.0, 5619.0, 5487.0, 5447.0, 5355.0, 5450.0, 5587.0, 5659.0, 5305.0, 5364.0, 5641.0, 5468.0, 5267.0, 5378.0, 5476.0, 5270.0, 5519.0, 5411.0, 5488.0, 5451.0, 5600.0, 5675.0, 5687.0, 5563.0, 5415.0, 5271.0 (number of hits: 4)
6	5510.0	9	1.0	333	1	5315.0, 5286.0, 5445.0, 5557.0, 5271.0, 5401.0, 5311.0, 5471.0, 5680.0, 5330.0, 5658.0, 5267.0, 5472.0, 5663.0, 5561.0, 5612.0, 5479.0, 5253.0, 5254.0, 5258.0, 5502.0, 5702.0, 5447.0, 5456.0, 5538.0, 5700.0, 5443.0, 5371.0, 5435.0, 5664.0, 5524.0, 5515.0, 5706.0, 5287.0, 5506.0, 5424.0, 5367.0, 5362.0, 5428.0, 5719.0, 5418.0, 5251.0, 5492.0, 5647.0, 5685.0, 5257.0, 5477.0, 5280.0, 5331.0, 5687.0, 5482.0, 5613.0, 5684.0, 5566.0, 5572.0,

						5436.0, 5300.0, 5328.0, 5358.0, 5442.0, 5313.0, 5306.0, 5619.0, 5633.0, 5533.0, 5691.0, 5420.0, 5568.0, 5319.0, 5535.0, 5378.0, 5335.0, 5292.0, 5490.0, 5369.0, 5657.0, 5688.0, 5334.0, 5350.0, 5289.0, 5402.0, 5659.0, 5583.0, 5654.0, 5411.0, 5629.0, 5357.0, 5694.0, 5386.0, 5610.0, 5642.0, 5444.0, 5528.0, 5455.0, 5591.0, 5573.0, 5494.0, 5632.0, 5703.0, 5525.0 (number of hits: 7)
7	5510.0	9	1.0	333	1	5300.0, 5611.0, 5508.0, 5314.0, 5309.0, 5663.0, 5464.0, 5373.0, 5478.0, 5549.0, 5388.0, 5570.0, 5363.0, 5320.0, 5702.0, 5415.0, 5330.0, 5695.0, 5370.0, 5664.0, 5466.0, 5421.0, 5255.0, 5542.0, 5635.0, 5709.0, 5586.0, 5697.0, 5448.0, 5577.0, 5460.0, 5671.0, 5684.0, 5261.0, 5534.0, 5423.0, 5474.0, 5313.0, 5701.0, 5285.0, 5323.0, 5477.0, 5354.0, 5407.0, 5654.0, 5686.0, 5561.0, 5361.0, 5350.0, 5683.0, 5703.0, 5442.0, 5634.0, 5710.0, 5704.0, 5418.0, 5252.0, 5503.0, 5512.0, 5343.0, 5444.0, 5677.0, 5319.0, 5381.0, 5539.0, 5412.0, 5486.0, 5331.0, 5572.0, 5267.0, 5659.0, 5558.0, 5638.0, 5377.0, 5557.0, 5706.0, 5525.0, 5530.0, 5457.0, 5578.0, 5322.0, 5526.0, 5538.0, 5436.0, 5680.0, 5437.0, 5450.0, 5513.0, 5428.0, 5345.0, 5587.0, 5485.0, 5514.0, 5627.0, 5641.0, 5494.0, 5292.0, 5357.0, 5359.0, 5276.0 (number of hits: 8)
8	5510.0	9	1.0	333	1	5317.0, 5302.0, 5372.0, 5645.0, 5330.0, 5547.0, 5563.0, 5423.0, 5558.0, 5460.0, 5524.0, 5386.0, 5281.0, 5684.0, 5657.0, 5661.0, 5588.0, 5681.0, 5395.0, 5534.0, 5355.0, 5633.0, 5587.0, 5561.0, 5438.0, 5348.0, 5653.0, 5596.0, 5541.0, 5488.0, 5376.0, 5268.0, 5497.0, 5494.0, 5552.0, 5299.0, 5347.0, 5434.0, 5550.0, 5451.0, 5428.0, 5363.0, 5368.0, 5431.0, 5662.0, 5383.0, 5325.0, 5335.0, 5676.0, 5539.0, 5654.0, 5664.0, 5632.0, 5313.0, 5620.0, 5272.0, 5699.0, 5381.0, 5569.0, 5445.0, 5604.0, 5396.0, 5519.0, 5629.0, 5256.0, 5277.0, 5643.0, 5288.0, 5252.0, 5295.0, 5265.0, 5471.0, 5532.0, 5658.0, 5520.0, 5579.0, 5602.0, 5619.0, 5374.0, 5530.0, 5294.0, 5334.0, 5672.0, 5482.0, 5510.0, 5584.0, 5370.0, 5447.0, 5443.0, 5575.0, 5280.0, 5548.0, 5673.0, 5436.0, 5590.0, 5594.0, 5608.0, 5600.0, 5474.0, 5591.0 (number of hits: 6)
9	5510.0	9	1.0	333	1	5275.0, 5253.0, 5580.0, 5462.0, 5338.0, 5610.0, 5496.0, 5411.0, 5373.0, 5364.0, 5281.0, 5423.0, 5626.0, 5445.0, 5451.0, 5384.0, 5721.0, 5420.0, 5449.0, 5509.0, 5262.0, 5605.0, 5581.0, 5304.0, 5639.0, 5333.0, 5625.0, 5382.0, 5600.0, 5381.0, 5428.0, 5664.0, 5653.0, 5409.0, 5402.0, 5432.0, 5629.0, 5712.0, 5311.0, 5263.0, 5540.0, 5361.0, 5376.0, 5429.0, 5472.0,

						5467.0, 5640.0, 5553.0, 5488.0, 5606.0, 5471.0, 5334.0, 5293.0, 5318.0, 5497.0, 5658.0, 5583.0, 5425.0, 5258.0, 5644.0, 5339.0, 5594.0, 5567.0, 5575.0, 5679.0, 5706.0, 5342.0, 5326.0, 5577.0, 5510.0, 5621.0, 5560.0, 5369.0, 5349.0, 5654.0, 5418.0, 5336.0, 5447.0, 5424.0, 5690.0, 5358.0, 5696.0, 5416.0, 5649.0, 5284.0, 5522.0, 5365.0, 5265.0, 5662.0, 5341.0, 5454.0, 5327.0, 5701.0, 5470.0, 5638.0, 5579.0, 5524.0, 5332.0, 5588.0, 5532.0 (number of hits: 6)
10	5510.0	9	1.0	333	1	5667.0, 5375.0, 5365.0, 5384.0, 5571.0, 5460.0, 5664.0, 5420.0, 5588.0, 5332.0, 5689.0, 5619.0, 5360.0, 5367.0, 5599.0, 5323.0, 5253.0, 5431.0, 5405.0, 5637.0, 5321.0, 5276.0, 5309.0, 5666.0, 5677.0, 5532.0, 5534.0, 5691.0, 5478.0, 5252.0, 5407.0, 5524.0, 5517.0, 5480.0, 5492.0, 5497.0, 5483.0, 5577.0, 5721.0, 5623.0, 5254.0, 5388.0, 5421.0, 5373.0, 5681.0, 5372.0, 5592.0, 5546.0, 5656.0, 5639.0, 5398.0, 5533.0, 5336.0, 5445.0, 5313.0, 5427.0, 5256.0, 5482.0, 5255.0, 5496.0, 5419.0, 5645.0, 5262.0, 5668.0, 5362.0, 5294.0, 5401.0, 5531.0, 5417.0, 5707.0, 5324.0, 5565.0, 5350.0, 5444.0, 5434.0, 5393.0, 5450.0, 5357.0, 5414.0, 5695.0, 5525.0, 5300.0, 5579.0, 5555.0, 5260.0, 5416.0, 5488.0, 5302.0, 5400.0, 5425.0, 5451.0, 5560.0, 5395.0, 5485.0, 5274.0, 5603.0, 5448.0, 5464.0, 5715.0, 5572.0 (number of hits: 6)
11	5510.0	9	1.0	333	1	5605.0, 5388.0, 5590.0, 5290.0, 5554.0, 5384.0, 5612.0, 5273.0, 5368.0, 5719.0, 5666.0, 5523.0, 5301.0, 5426.0, 5274.0, 5614.0, 5295.0, 5697.0, 5467.0, 5411.0, 5264.0, 5418.0, 5638.0, 5487.0, 5500.0, 5630.0, 5266.0, 5300.0, 5548.0, 5268.0, 5723.0, 5615.0, 5577.0, 5550.0, 5448.0, 5599.0, 5686.0, 5643.0, 5436.0, 5428.0, 5685.0, 5706.0, 5562.0, 5352.0, 5588.0, 5396.0, 5425.0, 5322.0, 5440.0, 5479.0, 5475.0, 5283.0, 5431.0, 5294.0, 5512.0, 5416.0, 5513.0, 5714.0, 5646.0, 5674.0, 5441.0, 5680.0, 5571.0, 5401.0, 5364.0, 5490.0, 5675.0, 5606.0, 5508.0, 5257.0, 5511.0, 5618.0, 5470.0, 5688.0, 5485.0, 5542.0, 5309.0, 5430.0, 5433.0, 5499.0, 5421.0, 5458.0, 5271.0, 5711.0, 5398.0, 5506.0, 5335.0, 5359.0, 5261.0, 5591.0, 5278.0, 5645.0, 5576.0, 5449.0, 5486.0, 5510.0, 5259.0, 5468.0, 5437.0, 5704.0 (number of hits: 9)
12	5510.0	9	1.0	333	1	5272.0, 5591.0, 5346.0, 5695.0, 5575.0, 5434.0, 5635.0, 5482.0, 5650.0, 5582.0, 5631.0, 5665.0, 5340.0, 5604.0, 5488.0, 5308.0, 5568.0, 5481.0, 5424.0, 5585.0, 5406.0, 5466.0, 5403.0, 5645.0, 5455.0, 5507.0, 5677.0, 5606.0, 5266.0, 5510.0, 5417.0, 5527.0, 5661.0, 5492.0, 5339.0,

						5518.0, 5528.0, 5420.0, 5344.0, 5580.0, 5709.0, 5291.0, 5323.0, 5615.0, 5425.0, 5394.0, 5307.0, 5693.0, 5380.0, 5258.0, 5418.0, 5313.0, 5321.0, 5662.0, 5595.0, 5343.0, 5666.0, 5566.0, 5625.0, 5586.0, 5375.0, 5688.0, 5301.0, 5576.0, 5458.0, 5251.0, 5597.0, 5464.0, 5409.0, 5587.0, 5462.0, 5294.0, 5441.0, 5717.0, 5463.0, 5288.0, 5345.0, 5664.0, 5298.0, 5603.0, 5552.0, 5460.0, 5476.0, 5720.0, 5703.0, 5404.0, 5263.0, 5451.0, 5553.0, 5697.0, 5428.0, 5636.0, 5357.0, 5473.0, 5523.0, 5289.0, 5469.0, 5383.0, 5348.0, 5433.0 (number of hits: 6)
13	5510.0	9	1.0	333	1	5427.0, 5557.0, 5715.0, 5443.0, 5411.0, 5372.0, 5654.0, 5325.0, 5488.0, 5462.0, 5564.0, 5603.0, 5466.0, 5647.0, 5358.0, 5708.0, 5622.0, 5660.0, 5626.0, 5509.0, 5444.0, 5294.0, 5468.0, 5390.0, 5397.0, 5452.0, 5641.0, 5436.0, 5433.0, 5547.0, 5592.0, 5575.0, 5481.0, 5329.0, 5512.0, 5560.0, 5610.0, 5689.0, 5506.0, 5572.0, 5591.0, 5685.0, 5321.0, 5393.0, 5377.0, 5627.0, 5537.0, 5304.0, 5636.0, 5463.0, 5678.0, 5649.0, 5687.0, 5308.0, 5296.0, 5476.0, 5713.0, 5350.0, 5587.0, 5683.0, 5545.0, 5551.0, 5322.0, 5252.0, 5295.0, 5677.0, 5422.0, 5664.0, 5277.0, 5418.0, 5624.0, 5435.0, 5605.0, 5334.0, 5356.0, 5542.0, 5396.0, 5502.0, 5608.0, 5440.0, 5428.0, 5259.0, 5675.0, 5510.0, 5548.0, 5491.0, 5595.0, 5578.0, 5712.0, 5409.0, 5640.0, 5541.0, 5351.0, 5297.0, 5375.0, 5596.0, 5408.0, 5521.0, 5266.0, 5265.0 (number of hits: 6)
14	5510.0	9	1.0	333	1	5313.0, 5346.0, 5573.0, 5358.0, 5468.0, 5613.0, 5337.0, 5473.0, 5481.0, 5694.0, 5543.0, 5724.0, 5401.0, 5670.0, 5622.0, 5402.0, 5391.0, 5710.0, 5366.0, 5513.0, 5449.0, 5693.0, 5268.0, 5559.0, 5687.0, 5672.0, 5638.0, 5595.0, 5553.0, 5711.0, 5369.0, 5410.0, 5631.0, 5662.0, 5684.0, 5419.0, 5704.0, 5267.0, 5665.0, 5351.0, 5593.0, 5647.0, 5678.0, 5564.0, 5689.0, 5621.0, 5258.0, 5349.0, 5343.0, 5508.0, 5561.0, 5635.0, 5300.0, 5272.0, 5348.0, 5692.0, 5436.0, 5411.0, 5589.0, 5465.0, 5321.0, 5342.0, 5472.0, 5283.0, 5431.0, 5590.0, 5334.0, 5394.0, 5467.0, 5389.0, 5424.0, 5602.0, 5339.0, 5340.0, 5661.0, 5652.0, 5580.0, 5496.0, 5390.0, 5531.0, 5676.0, 5485.0, 5423.0, 5301.0, 5718.0, 5667.0, 5375.0, 5265.0, 5522.0, 5445.0, 5696.0, 5320.0, 5399.0, 5545.0, 5633.0, 5596.0, 5642.0, 5376.0, 5398.0, 5518.0 (number of hits: 5)
15	5510.0	9	1.0	333	1	5487.0, 5271.0, 5615.0, 5456.0, 5419.0, 5567.0, 5512.0, 5650.0, 5340.0, 5551.0, 5574.0, 5638.0, 5388.0, 5366.0, 5510.0, 5364.0, 5452.0, 5449.0, 5372.0, 5298.0, 5649.0, 5386.0, 5538.0, 5252.0, 5709.0,

						5319.0, 5359.0, 5327.0, 5439.0, 5703.0, 5622.0, 5718.0, 5686.0, 5529.0, 5648.0, 5651.0, 5485.0, 5430.0, 5614.0, 5417.0, 5610.0, 5426.0, 5637.0, 5424.0, 5258.0, 5448.0, 5674.0, 5338.0, 5707.0, 5609.0, 5263.0, 5458.0, 5585.0, 5312.0, 5657.0, 5272.0, 5373.0, 5484.0, 5656.0, 5556.0, 5441.0, 5612.0, 5444.0, 5278.0, 5334.0, 5460.0, 5481.0, 5613.0, 5463.0, 5311.0, 5446.0, 5535.0, 5618.0, 5639.0, 5520.0, 5636.0, 5506.0, 5341.0, 5570.0, 5345.0, 5273.0, 5320.0, 5667.0, 5542.0, 5505.0, 5274.0, 5658.0, 5719.0, 5464.0, 5575.0, 5299.0, 5680.0, 5669.0, 5694.0, 5468.0, 5500.0, 5502.0, 5611.0, 5289.0, 5626.0 (number of hits: 7)
16	5510.0	9	1.0	333	1	5710.0, 5663.0, 5711.0, 5416.0, 5621.0, 5466.0, 5455.0, 5500.0, 5307.0, 5426.0, 5406.0, 5352.0, 5583.0, 5652.0, 5532.0, 5478.0, 5281.0, 5470.0, 5679.0, 5380.0, 5595.0, 5344.0, 5351.0, 5261.0, 5326.0, 5502.0, 5485.0, 5602.0, 5629.0, 5682.0, 5394.0, 5512.0, 5712.0, 5574.0, 5469.0, 5693.0, 5434.0, 5717.0, 5376.0, 5564.0, 5431.0, 5510.0, 5553.0, 5452.0, 5408.0, 5327.0, 5336.0, 5306.0, 5505.0, 5628.0, 5414.0, 5418.0, 5360.0, 5668.0, 5639.0, 5323.0, 5592.0, 5442.0, 5530.0, 5515.0, 5603.0, 5341.0, 5262.0, 5439.0, 5349.0, 5686.0, 5561.0, 5631.0, 5653.0, 5325.0, 5257.0, 5356.0, 5580.0, 5359.0, 5481.0, 5594.0, 5399.0, 5303.0, 5613.0, 5571.0, 5279.0, 5350.0, 5319.0, 5568.0, 5428.0, 5635.0, 5427.0, 5310.0, 5391.0, 5588.0, 5290.0, 5713.0, 5681.0, 5433.0, 5254.0, 5546.0, 5448.0, 5490.0, 5280.0, 5368.0 (number of hits: 6)
17	5510.0	9	1.0	333	1	5584.0, 5687.0, 5561.0, 5312.0, 5620.0, 5516.0, 5502.0, 5369.0, 5326.0, 5476.0, 5492.0, 5591.0, 5538.0, 5482.0, 5468.0, 5671.0, 5583.0, 5269.0, 5712.0, 5629.0, 5618.0, 5588.0, 5537.0, 5412.0, 5510.0, 5418.0, 5597.0, 5499.0, 5689.0, 5407.0, 5431.0, 5391.0, 5365.0, 5270.0, 5478.0, 5496.0, 5254.0, 5551.0, 5384.0, 5569.0, 5575.0, 5702.0, 5706.0, 5595.0, 5471.0, 5652.0, 5292.0, 5645.0, 5554.0, 5362.0, 5688.0, 5701.0, 5486.0, 5299.0, 5469.0, 5599.0, 5615.0, 5414.0, 5543.0, 5475.0, 5611.0, 5286.0, 5450.0, 5479.0, 5274.0, 5557.0, 5363.0, 5417.0, 5385.0, 5459.0, 5508.0, 5694.0, 5376.0, 5556.0, 5330.0, 5644.0, 5485.0, 5503.0, 5284.0, 5540.0, 5631.0, 5446.0, 5340.0, 5565.0, 5647.0, 5302.0, 5315.0, 5670.0, 5466.0, 5612.0, 5291.0, 5370.0, 5577.0, 5525.0, 5264.0, 5655.0, 5703.0, 5521.0, 5372.0, 5666.0 (number of hits: 10)
18	5510.0	9	1.0	333	1	5676.0, 5384.0, 5432.0, 5666.0, 5479.0, 5440.0, 5486.0, 5337.0, 5414.0, 5699.0, 5382.0, 5528.0, 5550.0, 5433.0, 5284.0,

						5377.0, 5303.0, 5292.0, 5536.0, 5373.0, 5426.0, 5702.0, 5412.0, 5326.0, 5365.0, 5682.0, 5709.0, 5555.0, 5467.0, 5649.0, 5416.0, 5461.0, 5274.0, 5380.0, 5624.0, 5334.0, 5720.0, 5631.0, 5515.0, 5489.0, 5710.0, 5309.0, 5393.0, 5724.0, 5496.0, 5718.0, 5254.0, 5691.0, 5375.0, 5508.0, 5504.0, 5614.0, 5639.0, 5641.0, 5419.0, 5453.0, 5436.0, 5653.0, 5430.0, 5635.0, 5539.0, 5618.0, 5408.0, 5472.0, 5422.0, 5455.0, 5265.0, 5421.0, 5559.0, 5689.0, 5570.0, 5349.0, 5514.0, 5275.0, 5616.0, 5395.0, 5698.0, 5558.0, 5642.0, 5253.0, 5431.0, 5389.0, 5509.0, 5630.0, 5450.0, 5670.0, 5281.0, 5379.0, 5634.0, 5424.0, 5636.0, 5547.0, 5369.0, 5314.0, 5439.0, 5647.0, 5451.0, 5533.0, 5663.0, 5535.0 (number of hits: 6)
19	5510.0	9	1.0	333	1	5254.0, 5359.0, 5322.0, 5522.0, 5552.0, 5577.0, 5404.0, 5302.0, 5335.0, 5344.0, 5506.0, 5353.0, 5710.0, 5297.0, 5430.0, 5602.0, 5588.0, 5364.0, 5671.0, 5358.0, 5687.0, 5640.0, 5625.0, 5559.0, 5702.0, 5472.0, 5619.0, 5649.0, 5695.0, 5432.0, 5320.0, 5454.0, 5637.0, 5446.0, 5700.0, 5436.0, 5553.0, 5591.0, 5300.0, 5451.0, 5673.0, 5699.0, 5573.0, 5415.0, 5473.0, 5526.0, 5326.0, 5707.0, 5290.0, 5453.0, 5705.0, 5449.0, 5375.0, 5575.0, 5520.0, 5283.0, 5682.0, 5624.0, 5373.0, 5652.0, 5630.0, 5356.0, 5623.0, 5258.0, 5628.0, 5275.0, 5425.0, 5724.0, 5467.0, 5594.0, 5622.0, 5613.0, 5352.0, 5337.0, 5583.0, 5582.0, 5325.0, 5269.0, 5251.0, 5340.0, 5379.0, 5354.0, 5596.0, 5276.0, 5313.0, 5450.0, 5256.0, 5542.0, 5299.0, 5514.0, 5614.0, 5709.0, 5312.0, 5510.0, 5321.0, 5544.0, 5357.0, 5645.0, 5484.0, 5429.0 (number of hits: 6)
20	5510.0	9	1.0	333	1	5582.0, 5382.0, 5587.0, 5523.0, 5399.0, 5672.0, 5412.0, 5497.0, 5686.0, 5389.0, 5559.0, 5608.0, 5508.0, 5482.0, 5578.0, 5484.0, 5522.0, 5434.0, 5719.0, 5641.0, 5359.0, 5663.0, 5315.0, 5278.0, 5421.0, 5343.0, 5598.0, 5580.0, 5524.0, 5285.0, 5280.0, 5675.0, 5444.0, 5405.0, 5662.0, 5441.0, 5509.0, 5329.0, 5458.0, 5350.0, 5372.0, 5555.0, 5622.0, 5332.0, 5594.0, 5414.0, 5682.0, 5650.0, 5625.0, 5494.0, 5448.0, 5466.0, 5527.0, 5402.0, 5299.0, 5712.0, 5647.0, 5361.0, 5486.0, 5690.0, 5708.0, 5301.0, 5711.0, 5507.0, 5312.0, 5384.0, 5255.0, 5602.0, 5720.0, 5298.0, 5423.0, 5519.0, 5592.0, 5289.0, 5548.0, 5261.0, 5381.0, 5336.0, 5395.0, 5496.0, 5295.0, 5344.0, 5532.0, 5378.0, 5377.0, 5333.0, 5284.0, 5326.0, 5438.0, 5267.0, 5549.0, 5699.0, 5562.0, 5303.0, 5566.0, 5429.0, 5291.0, 5366.0, 5287.0, 5391.0 (number of hits: 11)
21	5510.0	9	1.0	333	1	5512.0, 5479.0, 5584.0, 5441.0, 5671.0,

						5688.0, 5623.0, 5705.0, 5519.0, 5426.0, 5286.0, 5285.0, 5609.0, 5411.0, 5335.0, 5489.0, 5308.0, 5638.0, 5256.0, 5428.0, 5523.0, 5598.0, 5720.0, 5323.0, 5646.0, 5424.0, 5446.0, 5438.0, 5542.0, 5406.0, 5498.0, 5408.0, 5567.0, 5448.0, 5306.0, 5625.0, 5332.0, 5462.0, 5366.0, 5552.0, 5470.0, 5310.0, 5724.0, 5513.0, 5463.0, 5683.0, 5298.0, 5524.0, 5443.0, 5398.0, 5483.0, 5580.0, 5396.0, 5384.0, 5500.0, 5719.0, 5499.0, 5270.0, 5419.0, 5535.0, 5316.0, 5572.0, 5305.0, 5612.0, 5651.0, 5351.0, 5296.0, 5607.0, 5356.0, 5333.0, 5510.0, 5670.0, 5672.0, 5601.0, 5258.0, 5566.0, 5365.0, 5532.0, 5376.0, 5403.0, 5416.0, 5252.0, 5378.0, 5309.0, 5277.0, 5718.0, 5714.0, 5268.0, 5327.0, 5288.0, 5560.0, 5556.0, 5534.0, 5445.0, 5320.0, 5409.0, 5585.0, 5349.0, 5548.0, 5364.0 (number of hits: 9)
22	5510.0	9	1.0	333	1	5487.0, 5532.0, 5498.0, 5254.0, 5407.0, 5373.0, 5615.0, 5490.0, 5339.0, 5330.0, 5558.0, 5686.0, 5653.0, 5682.0, 5357.0, 5353.0, 5648.0, 5607.0, 5601.0, 5405.0, 5283.0, 5304.0, 5447.0, 5575.0, 5473.0, 5362.0, 5348.0, 5329.0, 5376.0, 5355.0, 5523.0, 5592.0, 5649.0, 5692.0, 5483.0, 5538.0, 5707.0, 5643.0, 5430.0, 5404.0, 5593.0, 5480.0, 5336.0, 5346.0, 5379.0, 5638.0, 5322.0, 5580.0, 5603.0, 5679.0, 5331.0, 5639.0, 5549.0, 5499.0, 5482.0, 5332.0, 5571.0, 5321.0, 5684.0, 5478.0, 5529.0, 5257.0, 5268.0, 5628.0, 5398.0, 5397.0, 5394.0, 5388.0, 5479.0, 5454.0, 5625.0, 5367.0, 5720.0, 5486.0, 5306.0, 5437.0, 5399.0, 5436.0, 5295.0, 5294.0, 5714.0, 5389.0, 5340.0, 5674.0, 5611.0, 5461.0, 5262.0, 5299.0, 5582.0, 5614.0, 5382.0, 5507.0, 5699.0, 5576.0, 5416.0, 5328.0, 5524.0, 5401.0, 5569.0, 5281.0 (number of hits: 5)
23	5510.0	9	1.0	333	1	5649.0, 5497.0, 5681.0, 5419.0, 5555.0, 5718.0, 5563.0, 5562.0, 5558.0, 5448.0, 5513.0, 5413.0, 5580.0, 5440.0, 5696.0, 5710.0, 5680.0, 5567.0, 5717.0, 5432.0, 5500.0, 5625.0, 5471.0, 5540.0, 5715.0, 5629.0, 5501.0, 5494.0, 5252.0, 5528.0, 5721.0, 5476.0, 5672.0, 5600.0, 5554.0, 5628.0, 5646.0, 5499.0, 5441.0, 5359.0, 5348.0, 5453.0, 5425.0, 5683.0, 5524.0, 5692.0, 5510.0, 5586.0, 5376.0, 5665.0, 5335.0, 5287.0, 5589.0, 5372.0, 5604.0, 5489.0, 5664.0, 5347.0, 5385.0, 5575.0, 5388.0, 5326.0, 5485.0, 5474.0, 5590.0, 5375.0, 5295.0, 5428.0, 5573.0, 5327.0, 5461.0, 5670.0, 5707.0, 5341.0, 5412.0, 5473.0, 5297.0, 5653.0, 5436.0, 5652.0, 5439.0, 5277.0, 5682.0, 5702.0, 5636.0, 5264.0, 5393.0, 5714.0, 5659.0, 5339.0, 5654.0, 5465.0, 5361.0, 5408.0, 5679.0, 5317.0, 5316.0, 5431.0, 5550.0, 5466.0

						(number of hits: 8)
24	5510.0	9	1.0	333	1	5552.0, 5384.0, 5347.0, 5318.0, 5494.0, 5372.0, 5679.0, 5507.0, 5694.0, 5582.0, 5445.0, 5520.0, 5439.0, 5381.0, 5610.0, 5282.0, 5698.0, 5595.0, 5676.0, 5533.0, 5409.0, 5467.0, 5452.0, 5560.0, 5453.0, 5526.0, 5596.0, 5397.0, 5273.0, 5706.0, 5631.0, 5400.0, 5358.0, 5499.0, 5604.0, 5471.0, 5447.0, 5570.0, 5369.0, 5695.0, 5424.0, 5301.0, 5686.0, 5259.0, 5393.0, 5715.0, 5648.0, 5547.0, 5664.0, 5332.0, 5624.0, 5477.0, 5479.0, 5300.0, 5609.0, 5258.0, 5717.0, 5666.0, 5383.0, 5585.0, 5408.0, 5723.0, 5521.0, 5625.0, 5370.0, 5315.0, 5297.0, 5614.0, 5406.0, 5577.0, 5672.0, 5469.0, 5326.0, 5411.0, 5304.0, 5602.0, 5650.0, 5253.0, 5711.0, 5620.0, 5565.0, 5272.0, 5335.0, 5360.0, 5719.0, 5591.0, 5290.0, 5421.0, 5323.0, 5378.0, 5663.0, 5567.0, 5474.0, 5687.0, 5325.0, 5460.0, 5549.0, 5495.0, 5266.0, 5357.0
						(number of hits: 7)
25	5510.0	9	1.0	333	1	5375.0, 5608.0, 5312.0, 5362.0, 5371.0, 5706.0, 5441.0, 5516.0, 5549.0, 5680.0, 5488.0, 5561.0, 5473.0, 5626.0, 5329.0, 5447.0, 5587.0, 5624.0, 5359.0, 5471.0, 5598.0, 5509.0, 5550.0, 5305.0, 5720.0, 5714.0, 5688.0, 5334.0, 5540.0, 5510.0, 5422.0, 5458.0, 5657.0, 5691.0, 5659.0, 5360.0, 5435.0, 5639.0, 5383.0, 5591.0, 5507.0, 5664.0, 5256.0, 5499.0, 5682.0, 5546.0, 5707.0, 5262.0, 5321.0, 5475.0, 5556.0, 5445.0, 5643.0, 5389.0, 5421.0, 5715.0, 5300.0, 5497.0, 5464.0, 5535.0, 5500.0, 5419.0, 5284.0, 5679.0, 5382.0, 5649.0, 5313.0, 5368.0, 5559.0, 5324.0, 5487.0, 5465.0, 5580.0, 5611.0, 5542.0, 5272.0, 5670.0, 5545.0, 5322.0, 5625.0, 5385.0, 5348.0, 5565.0, 5489.0, 5333.0, 5589.0, 5408.0, 5287.0, 5428.0, 5367.0, 5558.0, 5604.0, 5514.0, 5716.0, 5692.0, 5570.0, 5710.0, 5266.0, 5628.0, 5437.0
						(number of hits: 8)
26	5510.0	9	1.0	333	1	5475.0, 5385.0, 5567.0, 5466.0, 5397.0, 5290.0, 5496.0, 5263.0, 5482.0, 5506.0, 5652.0, 5377.0, 5401.0, 5329.0, 5623.0, 5585.0, 5548.0, 5481.0, 5618.0, 5509.0, 5372.0, 5348.0, 5663.0, 5522.0, 5411.0, 5313.0, 5514.0, 5512.0, 5262.0, 5641.0, 5702.0, 5447.0, 5709.0, 5558.0, 5517.0, 5395.0, 5423.0, 5374.0, 5398.0, 5584.0, 5394.0, 5501.0, 5318.0, 5428.0, 5670.0, 5563.0, 5619.0, 5470.0, 5479.0, 5486.0, 5571.0, 5308.0, 5426.0, 5298.0, 5689.0, 5384.0, 5693.0, 5459.0, 5421.0, 5590.0, 5575.0, 5259.0, 5375.0, 5634.0, 5321.0, 5635.0, 5691.0, 5692.0, 5380.0, 5507.0, 5304.0, 5490.0, 5468.0, 5473.0, 5471.0, 5334.0, 5545.0, 5489.0, 5457.0, 5669.0, 5491.0, 5286.0, 5569.0, 5628.0, 5467.0, 5570.0, 5687.0, 5339.0, 5527.0, 5465.0

						5373.0, 5404.0, 5265.0, 5713.0, 5441.0, 5413.0, 5356.0, 5424.0, 5418.0, 5708.0 (number of hits: 10)
27	5510.0	9	1.0	333	1	5386.0, 5298.0, 5554.0, 5361.0, 5251.0, 5409.0, 5286.0, 5433.0, 5591.0, 5404.0, 5482.0, 5436.0, 5665.0, 5701.0, 5671.0, 5435.0, 5483.0, 5284.0, 5547.0, 5573.0, 5604.0, 5302.0, 5469.0, 5303.0, 5683.0, 5506.0, 5519.0, 5711.0, 5558.0, 5476.0, 5328.0, 5343.0, 5352.0, 5575.0, 5645.0, 5531.0, 5618.0, 5391.0, 5510.0, 5445.0, 5291.0, 5395.0, 5707.0, 5279.0, 5264.0, 5337.0, 5681.0, 5660.0, 5365.0, 5632.0, 5428.0, 5598.0, 5322.0, 5376.0, 5700.0, 5353.0, 5538.0, 5341.0, 5570.0, 5694.0, 5347.0, 5718.0, 5680.0, 5600.0, 5649.0, 5513.0, 5424.0, 5619.0, 5383.0, 5548.0, 5693.0, 5408.0, 5455.0, 5662.0, 5387.0, 5540.0, 5308.0, 5497.0, 5560.0, 5440.0, 5488.0, 5567.0, 5414.0, 5425.0, 5342.0, 5406.0, 5451.0, 5628.0, 5545.0, 5719.0, 5307.0, 5431.0, 5461.0, 5318.0, 5381.0, 5269.0, 5699.0, 5338.0, 5280.0, 5258.0 (number of hits: 5)
28	5510.0	9	1.0	333	1	5692.0, 5348.0, 5639.0, 5521.0, 5505.0, 5357.0, 5513.0, 5605.0, 5669.0, 5655.0, 5445.0, 5421.0, 5297.0, 5276.0, 5429.0, 5392.0, 5663.0, 5323.0, 5495.0, 5339.0, 5617.0, 5654.0, 5314.0, 5679.0, 5265.0, 5540.0, 5343.0, 5563.0, 5338.0, 5650.0, 5552.0, 5616.0, 5410.0, 5520.0, 5474.0, 5656.0, 5580.0, 5721.0, 5389.0, 5290.0, 5708.0, 5559.0, 5543.0, 5414.0, 5632.0, 5682.0, 5712.0, 5648.0, 5257.0, 5585.0, 5302.0, 5481.0, 5352.0, 5716.0, 5483.0, 5627.0, 5433.0, 5403.0, 5442.0, 5269.0, 5346.0, 5318.0, 5425.0, 5402.0, 5572.0, 5319.0, 5327.0, 5447.0, 5393.0, 5693.0, 5385.0, 5436.0, 5698.0, 5364.0, 5275.0, 5486.0, 5273.0, 5723.0, 5620.0, 5526.0, 5409.0, 5449.0, 5683.0, 5547.0, 5609.0, 5588.0, 5647.0, 5515.0, 5476.0, 5324.0, 5635.0, 5493.0, 5270.0, 5562.0, 5250.0, 5717.0, 5646.0, 5564.0, 5406.0, 5489.0 (number of hits: 8)
29	5510.0	9	1.0	333	1	5509.0, 5555.0, 5455.0, 5571.0, 5456.0, 5375.0, 5656.0, 5625.0, 5257.0, 5664.0, 5679.0, 5547.0, 5441.0, 5653.0, 5274.0, 5677.0, 5430.0, 5628.0, 5712.0, 5661.0, 5564.0, 5668.0, 5301.0, 5385.0, 5326.0, 5518.0, 5319.0, 5627.0, 5267.0, 5617.0, 5252.0, 5377.0, 5277.0, 5295.0, 5622.0, 5296.0, 5362.0, 5254.0, 5643.0, 5568.0, 5480.0, 5639.0, 5594.0, 5540.0, 5401.0, 5685.0, 5675.0, 5469.0, 5328.0, 5350.0, 5537.0, 5534.0, 5535.0, 5558.0, 5336.0, 5546.0, 5578.0, 5600.0, 5596.0, 5599.0, 5666.0, 5512.0, 5405.0, 5300.0, 5523.0, 5510.0, 5554.0, 5588.0, 5619.0, 5331.0, 5394.0, 5330.0, 5421.0, 5395.0, 5305.0, 5442.0, 5611.0, 5424.0, 5323.0, 5593.0,

						5570.0, 5437.0, 5485.0, 5399.0, 5447.0, 5415.0, 5429.0, 5318.0, 5382.0, 5715.0, 5428.0, 5490.0, 5465.0, 5494.0, 5311.0, 5652.0, 5364.0, 5640.0, 5438.0, 5608.0 (number of hits: 6)
30	5510.0	9	1.0	333	1	5331.0, 5352.0, 5255.0, 5587.0, 5318.0, 5396.0, 5566.0, 5428.0, 5562.0, 5467.0, 5621.0, 5264.0, 5372.0, 5685.0, 5722.0, 5544.0, 5674.0, 5577.0, 5449.0, 5340.0, 5530.0, 5495.0, 5510.0, 5462.0, 5400.0, 5683.0, 5515.0, 5436.0, 5349.0, 5589.0, 5460.0, 5355.0, 5551.0, 5611.0, 5676.0, 5500.0, 5581.0, 5438.0, 5409.0, 5378.0, 5662.0, 5595.0, 5276.0, 5539.0, 5661.0, 5416.0, 5371.0, 5419.0, 5432.0, 5325.0, 5609.0, 5480.0, 5388.0, 5672.0, 5403.0, 5254.0, 5488.0, 5314.0, 5476.0, 5475.0, 5705.0, 5693.0, 5701.0, 5333.0, 5616.0, 5274.0, 5469.0, 5404.0, 5266.0, 5418.0, 5554.0, 5446.0, 5524.0, 5631.0, 5366.0, 5386.0, 5256.0, 5311.0, 5289.0, 5251.0, 5496.0, 5648.0, 5673.0, 5278.0, 5426.0, 5474.0, 5549.0, 5288.0, 5270.0, 5284.0, 5399.0, 5313.0, 5473.0, 5543.0, 5657.0, 5583.0, 5456.0, 5514.0, 5716.0, 5447.0 (number of hits: 7)

**AP Mode
Pine Radio****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	90 %	60%	Pass
Type 3	30	93.3 %	60%	Pass
Type 4	30	96.7 %	60%	Pass
Aggregate (Type1 to 4)	120	95 %	80%	Pass
Type 5	30	100 %	80%	Pass
Type 6	30	96.7 %	70%	Pass

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

Note: Radar was generated randomly in the frequency range of 5490-5570 MHz.

Trial #	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	81	1.0	658	1
2	18	1.0	3066	1
3	78	1.0	678	1
4	68	1.0	778	1
5	76	1.0	698	1
6	83	1.0	638	1
7	63	1.0	838	1
8	72	1.0	738	1
9	89	1.0	598	1
10	86	1.0	618	1
11	65	1.0	818	1
12	62	1.0	858	1
13	59	1.0	898	1
14	70	1.0	758	1
15	95	1.0	558	1
16	28	1.0	1913	1
17	34	1.0	1563	1
18	30	1.0	1796	1
19	20	1.0	2688	1
20	25	1.0	2182	1
21	53	1.0	1013	1
22	27	1.0	1962	1
23	24	1.0	2256	1
24	29	1.0	1850	1
25	21	1.0	2561	1
26	39	1.0	1365	1
27	21	1.0	2607	1
28	55	1.0	961	1
29	23	1.0	2380	1
30	27	1.0	2020	1
Detection Percentage: 100 % (>60%)				

Table-2 Radar Type 2 Statistical Performance

Note: Radar was generated randomly in the frequency range of 5490-5530 MHz.

Trial #	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	27	1.9	160	1
2	25	4.1	206	1
3	24	3.8	187	1
4	29	3.8	193	1
5	23	4.5	150	1
6	25	1.7	163	0
7	27	1.4	223	1
8	26	3.1	175	1
9	28	2.4	172	1
10	27	1.7	175	1
11	28	3.0	158	1
12	23	3.5	223	0
13	23	3.7	155	1
14	27	4.8	193	1
15	28	3.0	168	1
16	25	3.0	222	1
17	24	4.3	215	1
18	26	3.1	183	1
19	27	4.1	191	1
20	26	3.3	206	1
21	28	2.1	170	1
22	23	3.3	212	1
23	27	2.7	199	1
24	25	4.0	194	1
25	29	3.8	215	1
26	25	2.5	199	0
27	29	2.0	197	1
28	24	2.9	215	1
29	24	1.5	187	1
30	26	1.7	177	1
Detection Percentage: 90 % (>60%)				

Table-3 Radar Type 3 Statistical Performance

Note: Radar was generated randomly in the frequency range of 5490-5530 MHz.

Trial #	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	17	8.4	385	1
2	18	7.9	342	1
3	16	6.5	257	1
4	18	8.7	263	1
5	18	9.4	325	1
6	16	7.5	456	1
7	17	8.1	293	1
8	18	8.2	278	1
9	17	8.8	399	1
10	18	9.3	453	1
11	18	6.6	414	1
12	17	8.2	305	1
13	17	6.2	341	1
14	17	8.2	350	1
15	16	7.8	202	1
16	18	6.3	265	0
17	16	8.8	343	1
18	17	9.3	480	1
19	18	7.7	333	1
20	17	9.1	317	1
21	17	7.7	298	1
22	16	6.6	493	0
23	18	7.8	245	1
24	16	7.3	496	1
25	16	7.8	241	1
26	18	8.1	428	1
27	18	9.1	361	1
28	17	9.3	319	1
29	16	7.8	327	1
30	18	7.1	242	1
Detection Percentage: 93.3 % (>60%)				

Table-4 Radar Type 4 Statistical Performance

Note: Radar was generated randomly in the frequency range of 5490-5530 MHz.

Trial #	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	15	11.0	359	1
2	13	14.9	477	1
3	15	11.3	312	1
4	12	15.7	374	1
5	15	12.0	477	1
6	16	20.0	295	0
7	12	14.9	453	1
8	15	11.3	411	1
9	13	13.1	358	1
10	16	17.4	236	1
11	16	18.7	381	1
12	14	11.2	222	1
13	14	12.1	483	1
14	14	13.0	276	1
15	15	13.7	357	1
16	15	16.0	357	1
17	12	12.1	358	1
18	15	16.3	463	1
19	16	19.5	427	1
20	15	19.8	318	1
21	16	19.1	291	1
22	13	11.4	224	1
23	13	15.8	229	1
24	12	13.3	304	1
25	15	14.7	301	1
26	16	19.9	254	1
27	15	19.8	450	1
28	16	12.9	244	1
29	12	19.4	423	1
30	14	17.2	202	1
Detection Percentage: 96.7 % (>60%)				

Table-5 Radar Type 5 Statistical Performance

Trial #	Fc (MHz)	Detection (1:yes; 0:no)
1	5530	1
2	5530	1
3	5530	1
4	5530	1
5	5530	1
6	5530	1
7	5530	1
8	5530	1
9	5530	1
10	5530	1
11	5500.5	1
12	5500.1	1
13	5495.3	1
14	5497.3	1
15	5499.3	1
16	5494.9	1
17	5495.7	1
18	5494.9	1
19	5500.1	1
20	5497.7	1
21	5563.1	1
22	5561.9	1
23	5564.7	1
24	5560.3	1
25	5562.3	1
26	5559.9	1
27	5559.5	1
28	5563.5	1
29	5563.1	1
30	5562.3	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	3	11	50.2	1826	1825	0.615897	1
1	2	11	70.7	1783		1.088896	
2	3	11	93.6	1464	1601	1.891678	
3	3	11	76.2	1831	1442	2.123364	
4	1	11	77.7			3.057859	
5	1	11	76.7			3.376312	
6	1	11	62.9			4.490643	
7	3	11	92.5	1018	1094	4.759871	
8	3	11	57.3	1408	1896	5.557580	
9	2	11	69.7	1988		6.363901	
10	1	11	68.0			6.751811	
11	1	11	75.8			7.761580	
12	2	11	67.7	1640		8.165234	
13	2	11	73.2	1327		9.142152	
14	2	11	75.3	1443		9.621880	
15	2	11	79.8	1513		10.346350	
16	3	11	64.2	1768	1564	10.847260	
17	1	11	63.7			11.886197	

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	10	95.9			0.495259	1
1	3	10	59.8	1846	1777	1.830907	
2	2	10	82.0	1849		2.559272	
3	2	10	86.8	1357		3.762165	
4	3	10	54.5	1836	1290	5.000962	
5	3	10	76.4	1719	1380	5.778598	
6	1	10	77.8			7.520188	
7	1	10	69.2			7.686749	
8	2	10	80.0	1232		8.816877	
9	3	10	98.8	1377	1406	10.777246	
10	2	10	93.6	1705		11.969024	

Bin5 Statistics 3

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	15	69.7	1204	1455	0.730750	1
1	3	15	61.3	1558	1481	1.870454	
2	1	15	73.1			3.428836	
3	2	15	95.7	1252		5.434542	
4	1	15	69.4			7.075242	
5	1	15	63.2			7.718335	
6	2	15	95.8	1445		10.297092	
7	2	15	86.7	1421		11.304087	

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	99.2	1258		0.633528	1
1	1	6	55.5			1.085054	
2	1	6	86.4			2.127914	
3	3	6	71.4	1540	1823	3.098855	
4	3	6	86.6	1916	1970	3.427330	
5	2	6	62.2	1829		4.057404	
6	2	6	65.5	1159		5.392227	
7	2	6	54.2	1756		6.322291	
8	3	6	74.5	1985	1933	6.567582	
9	3	6	62.9	1647	1948	7.871108	
10	1	6	94.7			8.622425	
11	3	6	93.6	1444	1209	9.233739	
12	2	6	97.5	1437		10.374781	
13	2	6	67.0	1482		10.578103	
14	3	6	98.9	1705	1489	11.893337	

Bin5 Statistics 5

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	8	84.1			0.281392	1
1	3	8	100.0	1074	1143	0.917616	
2	2	8	67.9	1393		1.585064	
3	1	8	57.9			2.306095	
4	3	8	72.9	1301	1709	2.804909	
5	1	8	67.4			3.075503	
6	2	8	81.8	1396		3.612152	
7	2	8	53.4	1171		4.542284	
8	1	8	83.6			4.983957	
9	1	8	85.4			5.401176	
10	3	8	94.1	1787	1206	6.121369	
11	1	8	75.7			7.008036	
12	2	8	63.4	1051		7.636317	
13	3	8	53.6	1118	1169	7.965192	
14	3	8	76.2	1040	1857	8.438068	
15	3	8	53.2	1156	1089	9.575780	
16	3	8	60.0	1254	1133	9.706556	
17	1	8	69.8			10.641861	
18	3	8	81.4	1470	1358	10.991151	
19	2	8	52.1	1312		11.841012	

Bin5 Statistics 6

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	13	63.2	1051		0.291353	1
1	1	13	70.5			1.444200	
2	3	13	55.5	1648	1406	2.029180	
3	1	13	84.6			3.082386	
4	3	13	52.9	1534	1008	3.512484	
5	3	13	83.0	1429	1751	4.022119	
6	2	13	80.0	1604		4.884789	
7	2	13	69.5	1959		6.056142	
8	2	13	88.4	1796		6.735496	
9	2	13	89.4	1569		7.906995	
10	1	13	64.0			8.686861	
11	1	13	77.7			9.203748	
12	2	13	59.8	1598		9.946548	
13	1	13	69.4			10.618491	
14	2	13	72.3	1466		11.618532	

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	11	60.7	1704	1605	0.749289	1
1	1	11	70.9			1.745020	
2	3	11	87.5	1546	1942	3.644067	
3	2	11	62.0	1300		5.229956	
4	2	11	89.6	1572		5.566150	
5	2	11	70.7	1761		6.718491	
6	2	11	85.9	1563		8.213224	
7	3	11	57.5	1922	1191	10.381465	
8	3	11	98.8	1796	1102	11.370422	

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	5	85.7			0.572742	1
1	3	5	74.2	1865	1810	0.755196	
2	1	5	63.1			1.575985	
3	2	5	51.5	1505		2.368719	
4	3	5	67.9	1641	1521	2.934568	
5	2	5	75.9	1741		3.610038	
6	2	5	58.3	1263		4.430911	
7	3	5	84.1	1438	1184	5.320156	
8	2	5	71.1	1091		5.366049	
9	3	5	74.4	1625	1718	6.167165	
10	3	5	75.7	1581	1245	7.163296	
11	2	5	74.3	1793		7.598247	
12	3	5	62.3	1774	1225	8.246929	
13	2	5	78.6	1744		9.281533	
14	1	5	78.4			9.549345	
15	2	5	71.7	1107		10.004452	
16	2	5	60.4	1433		11.284588	
17	2	5	56.8	1099		11.574487	

Bin5 Statistics 9

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	8	71.3	1774		0.702337	1
1	3	8	50.8	1568	1195	1.489412	
2	1	8	92.3			2.727706	
3	1	8	58.6			4.150521	
4	2	8	55.8	1038		5.046279	
5	1	8	95.3			6.482399	
6	3	8	71.0	1763	1404	7.159330	
7	2	8	77.4	1804		8.158428	
8	3	8	95.8	1574	1532	9.605104	
9	1	8	61.0			10.706581	
10	2	8	75.9	1982		11.883228	

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	10	62.4	1503		0.641071	1
1	2	10	74.2	1982		2.273352	
2	2	10	71.6	1106		2.947853	
3	2	10	69.6	1443		5.157959	
4	2	10	56.5	1100		5.544047	
5	3	10	61.2	1824	1535	6.847909	
6	3	10	80.7	1842	1728	9.071932	
7	1	10	95.2			10.218232	
8	1	10	96.3			11.184803	

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	20	77.5	1960		0.526248	1
1	3	20	85.7	1471	1548	1.786910	
2	3	20	96.3	1720	1524	1.949804	
3	2	20	65.2	1014		2.908343	
4	1	20	73.3			4.284245	
5	3	20	97.2	1732	1312	5.476059	
6	1	20	87.0			6.428602	
7	1	20	57.9			6.575887	
8	2	20	77.8	1352		7.883398	
9	3	20	70.4	1991	1198	9.185824	
10	1	20	90.4			9.247187	
11	2	20	90.9	1469		10.260906	
12	2	20	94.2	1408		11.797878	

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	19	70.2			0.190127	1
1	3	19	98.0	1053	1181	2.317611	
2	3	19	68.8	1452	1799	2.674008	
3	3	19	91.1	1672	1637	4.154601	
4	2	19	62.2	1164		5.726173	
5	2	19	90.5	1267		7.906752	
6	2	19	89.9	1302		8.599858	
7	1	19	63.3			10.550036	
8	2	19	59.5	1846		10.768861	

Bin5 Statistics 13

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	7	61.5	1973	1611	0.959956	1
1	3	7	71.9	1174	1716	1.363343	
2	2	7	93.5	1253		2.271717	
3	2	7	95.2	1462		3.765170	
4	1	7	81.5			5.365024	
5	2	7	78.1	1415		5.888311	
6	3	7	66.9	1786	1873	7.513136	
7	2	7	79.7	1673		8.067648	
8	1	7	87.2			9.054795	
9	2	7	74.9	1569		10.427618	
10	1	7	64.1			11.776358	

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	12	73.0	1262	1325	0.416596	1
1	3	12	82.5	1916	1963	1.051558	
2	2	12	52.7	1783		1.719258	
3	2	12	66.6	1061		1.936318	
4	1	12	68.7			3.057441	
5	1	12	51.7			3.343016	
6	2	12	59.7	1580		4.120585	
7	2	12	57.7	1729		4.646013	
8	2	12	88.3	1522		5.357384	
9	3	12	90.9	1538	1498	6.270251	
10	2	12	74.8	1944		6.864392	
11	2	12	83.9	1887		7.030788	
12	2	12	66.4	1524		8.022039	
13	2	12	79.6	1975		8.650331	
14	2	12	94.0	1185		9.005554	
15	3	12	76.5	1662	1637	10.016750	
16	3	12	92.8	1844	1460	10.662383	
17	1	12	71.6			10.942706	
18	1	12	70.1			11.863795	

Bin5 Statistics 15

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	17	55.8			0.979023	1
1	1	17	93.3			1.206065	
2	3	17	64.9	1717	1127	2.828714	
3	2	17	75.6	1266		4.443642	
4	3	17	69.1	1224	1558	5.762822	
5	2	17	92.8	1421		6.131258	
6	2	17	62.4	1593		8.001693	
7	2	17	57.4	1381		8.533854	
8	3	17	88.9	1228	1652	10.206471	
9	2	17	73.8	1769		10.816007	

Bin5 Statistics 16

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	6	59.1			0.641787	1
1	2	6	85.6	1847		1.164509	
2	3	6	75.1	1192	1774	2.311016	
3	2	6	65.3	1172		2.510961	
4	1	6	72.8			3.320109	
5	2	6	68.0	1056		4.459807	
6	2	6	50.6	1884		5.593488	
7	3	6	85.4	1345	1141	5.686329	
8	2	6	55.6	1704		6.575824	
9	2	6	61.4	1459		7.686555	
10	2	6	92.6	1069		8.085044	
11	1	6	96.3			9.235496	
12	1	6	73.3			10.281412	
13	1	6	52.9			10.566585	
14	3	6	70.8	1101	1618	11.564674	

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	8	78.5	1182		0.901272	1
1	3	8	65.6	1510	1805	2.064362	
2	1	8	90.3			3.022986	
3	1	8	93.5			5.326149	
4	2	8	70.2	1148		6.633341	
5	2	8	68.9	1079		7.175089	
6	2	8	57.7	1003		8.622189	
7	3	8	81.3	1918	1624	9.780067	
8	2	8	75.0	1977		11.583924	

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	6	63.0	1011		0.082554	1
1	2	6	82.1	1878		1.219665	
2	2	6	53.1	1306		1.665677	
3	2	6	73.7	1300		2.324090	
4	1	6	59.0			2.913594	
5	2	6	55.4	1028		3.430932	
6	2	6	79.8	1501		4.155439	
7	2	6	90.1	1539		5.192810	
8	3	6	95.8	1878	1295	5.912603	
9	3	6	83.6	1066	1542	6.245571	
10	2	6	81.2	1648		6.874505	
11	1	6	66.2			7.500238	
12	2	6	75.6	1890		8.655969	
13	1	6	69.9			9.054026	
14	3	6	62.8	1873	1189	9.586890	
15	2	6	76.0	1814		10.192497	
16	2	6	70.7	1166		10.768172	
17	1	6	62.4			11.552796	

Bin5 Statistics 19

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	19	92.2			0.015296	1
1	2	19	84.8	1036		1.602947	
2	3	19	57.9	1467	1026	3.868512	
3	2	19	95.4	1374		4.037987	
4	3	19	87.1	1885	1671	6.451902	
5	1	19	59.6			7.676103	
6	1	19	95.6			8.231778	
7	2	19	90.2	1110		10.524603	
8	2	19	77.1	1381		10.730863	

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	13	94.0	1193		0.515351	1
1	3	13	65.5	1528	1381	1.100585	
2	2	13	82.1	1596		1.644925	
3	3	13	83.7	1075	1033	2.654122	
4	2	13	89.5	1597		3.206025	
5	2	13	93.4	1697		3.476079	
6	2	13	71.7	1741		4.285001	
7	3	13	64.8	1671	1185	4.790732	
8	1	13	88.6			5.910063	
9	3	13	98.2	1156	1159	6.047826	
10	3	13	70.8	1683	1881	7.118931	
11	2	13	97.5	1676		7.920027	
12	3	13	54.8	1738	1625	8.063094	
13	3	13	93.9	1729	1321	9.065528	
14	2	13	81.5	1329		9.901553	
15	2	13	96.3	1759		10.603623	
16	3	13	92.8	1779	1523	11.273873	
17	3	13	98.9	1019	1220	11.506964	

Bin5 Statistics 21

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	11	56.5	1140		0.842021	1
1	3	11	95.5	1230	1259	1.542220	
2	2	11	74.4	1478		2.141886	
3	2	11	70.8	1473		3.426322	
4	3	11	97.3	1120	1976	4.116889	
5	1	11	59.2			5.116499	
6	3	11	98.5	1066	1271	5.773242	
7	3	11	89.5	1200	1068	6.546632	
8	1	11	51.1			7.860070	
9	3	11	82.8	1190	1247	8.736096	
10	2	11	64.6	1735		9.719189	
11	3	11	92.1	1225	1666	10.551967	
12	2	11	55.3	1932		11.485466	

Bin5 Statistics 22

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	14	85.6			0.788186	1
1	1	14	94.8			1.522964	
2	3	14	72.2	1295	1082	2.001816	
3	1	14	67.3			3.344709	
4	1	14	92.3			3.620613	
5	3	14	74.5	1724	1488	4.837665	
6	2	14	79.2	1285		5.648969	
7	2	14	98.7	1490		6.281320	
8	1	14	79.9			7.019049	
9	1	14	53.0			7.735952	
10	2	14	92.6	1919		9.273738	
11	2	14	79.3	1067		9.490335	
12	1	14	98.8			10.691465	
13	3	14	55.3	1601	1635	11.545781	

Bin5 Statistics 23

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	7	98.6	1013		0.019112	1
1	1	7	59.5			0.826407	
2	1	7	59.3			2.086824	
3	2	7	52.8	1748		2.131393	
4	1	7	82.3			3.182226	
5	2	7	90.3	1283		3.757561	
6	1	7	82.0			4.553216	
7	2	7	72.9	1581		5.374366	
8	3	7	54.2	1377	1658	6.297195	
9	3	7	50.3	1338	1117	6.995502	
10	2	7	82.3	1021		7.219369	
11	3	7	99.2	1494	1384	7.936722	
12	3	7	84.8	1472	1780	8.666128	
13	2	7	78.0	1508		9.821310	
14	2	7	83.2	1995		10.221751	
15	2	7	59.8	1969		10.812022	
16	1	7	82.9			11.329942	

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	18	66.8	1076		0.492326	1
1	2	18	77.7	1302		0.612166	
2	3	18	78.7	1206	1254	1.591990	
3	3	18	99.9	1628	1559	1.803768	
4	3	18	84.0	1489	1223	2.911988	
5	2	18	95.6	1605		3.557720	
6	3	18	91.7	1112	1096	3.895568	
7	2	18	77.9	1011		4.213892	
8	3	18	92.0	1433	1477	5.343945	
9	3	18	93.1	1647	1544	5.536525	
10	2	18	85.7	1540		6.242514	
11	2	18	59.1	1804		6.736277	
12	1	18	69.5			7.293154	
13	3	18	77.4	1120	1902	8.377175	
14	1	18	92.3			8.551199	
15	2	18	65.5	1380		9.344417	
16	2	18	75.3	1663		9.763757	
17	2	18	55.4	1686		10.359669	
18	3	18	93.1	1340	1204	10.944946	

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	13	57.0			0.612526	1
1	1	13	89.9			1.407703	
2	3	13	56.7	1771	1479	2.631725	
3	1	13	57.3			3.939366	
4	1	13	91.4			5.418975	
5	2	13	97.8	1632		5.913849	
6	3	13	58.3	1165	1174	6.818439	
7	2	13	87.6	1270		8.601858	
8	2	13	76.9	1491		9.720768	
9	2	13	84.3	1067		10.315496	
10	2	13	76.4	1816		11.641759	
0	1	13	57.0			0.612526	

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	19	89.2			0.285279	1
1	2	19	73.9	1773		0.956990	
2	2	19	60.1	1426		2.098361	
3	2	19	69.4	1704		2.698305	
4	2	19	60.4	1496		3.510126	
5	3	19	57.9	1364	1616	3.985806	
6	2	19	82.0	1328		4.629080	
7	1	19	72.8			5.391063	
8	2	19	86.5	1598		6.226241	
9	2	19	68.5	1599		6.670313	
10	2	19	67.2	1060		7.297546	
11	2	19	96.4	1960		8.369100	
12	2	19	58.5	1654		8.934199	
13	2	19	59.0	1249		9.436545	
14	2	19	98.9	1185		10.257256	
15	2	19	63.9	1131		11.111118	
16	1	19	87.2			11.315353	

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	20	75.2	1310		0.187986	1
1	3	20	85.2	1416	1916	0.749682	
2	3	20	94.8	1281	1825	1.766252	
3	1	20	50.5			2.630494	
4	2	20	53.0	1247		3.198368	
5	2	20	81.7	1244		4.074899	
6	2	20	73.8	1942		4.838227	
7	2	20	67.6	1176		5.320104	
8	3	20	61.8	1691	1304	5.681761	
9	2	20	98.6	1874		6.899414	
10	2	20	75.6	1286		7.239175	
11	2	20	81.1	1549		7.866539	
12	2	20	97.2	1302		8.893354	
13	2	20	97.5	1505		9.525653	
14	2	20	80.5	1951		10.422757	
15	2	20	58.7	1210		10.733039	
16	3	20	98.2	1490	1400	11.813803	

Bin5 Statistics 28

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	10	92.6	1639	1610	0.110528	1
1	2	10	70.8	1169		0.743614	
2	2	10	67.9	1204		1.667983	
3	1	10	53.7			1.844052	
4	2	10	88.0	1535		2.698261	
5	1	10	74.0			3.524253	
6	2	10	73.3	1137		3.716902	
7	3	10	51.2	1648	1352	4.376149	
8	2	10	86.3	1152		4.977093	
9	1	10	51.9			5.941776	
10	2	10	96.1	1157		6.065416	
11	2	10	62.5	1586		6.970573	
12	2	10	71.1	1965		7.257738	
13	2	10	51.5	1287		8.343182	
14	2	10	96.9	1563		8.589559	
15	2	10	65.2	1811		9.000570	
16	2	10	57.1	1075		9.921388	
17	2	10	63.2	1371		10.521540	
18	1	10	87.9			11.173244	
19	2	10	82.8	1859		11.561679	

Bin5 Statistics 29

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	11	97.6			0.691983	1
1	3	11	95.6	1021	1800	1.230556	
2	1	11	78.6			2.820648	
3	2	11	51.7	1243		3.540745	
4	2	11	67.5	1446		4.247355	
5	2	11	98.9	1457		5.809946	
6	3	11	63.4	1798	1051	6.369105	
7	2	11	73.6	1834		7.595493	
8	2	11	58.0	1402		8.251647	
9	2	11	63.6	1560		9.798985	
10	2	11	67.2	1366		10.770872	
11	3	11	79.0	1846	1838	11.015095	

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	13	81.8	1605	1718	0.294204	1
1	2	13	73.6	1888		1.216244	
2	2	13	92.1	1435		2.190772	
3	2	13	54.2	1259		2.574638	
4	3	13	94.8	1071	1766	4.265642	
5	3	13	70.1	1282	1232	4.879975	
6	2	13	54.5	1742		5.417253	
7	1	13	78.9			6.801651	
8	2	13	90.7	1817		7.433648	
9	2	13	95.9	1322		8.085232	
10	1	13	75.8			9.013264	
11	3	13	72.0	1098	1346	10.057538	
12	1	13	96.5			11.026891	
13	2	13	67.0	1316		11.500097	

Table-6 Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)	Hopping Sequence
1	5530.0	9	1.0	333	1	5485.0, 5298.0, 5576.0, 5330.0, 5636.0, 5546.0, 5408.0, 5372.0, 5386.0, 5269.0, 5544.0, 5285.0, 5460.0, 5373.0, 5464.0, 5706.0, 5717.0, 5599.0, 5389.0, 5377.0, 5685.0, 5411.0, 5619.0, 5251.0, 5575.0, 5603.0, 5434.0, 5324.0, 5600.0, 5428.0, 5689.0, 5586.0, 5353.0, 5277.0, 5639.0, 5307.0, 5681.0, 5397.0, 5553.0, 5391.0, 5260.0, 5347.0, 5473.0, 5289.0, 5455.0, 5572.0, 5450.0, 5466.0, 5325.0, 5257.0, 5499.0, 5534.0, 5638.0, 5615.0, 5635.0, 5637.0, 5381.0, 5559.0, 5678.0, 5533.0, 5640.0, 5370.0, 5493.0, 5454.0, 5392.0, 5612.0, 5258.0, 5383.0, 5308.0, 5440.0, 5597.0, 5447.0, 5659.0, 5714.0, 5294.0, 5318.0, 5710.0, 5525.0, 5579.0, 5375.0, 5641.0, 5401.0, 5574.0, 5608.0, 5360.0, 5426.0, 5594.0, 5626.0, 5716.0, 5633.0, 5452.0, 5437.0, 5602.0, 5492.0, 5467.0, 5445.0, 5513.0, 5573.0, 5518.0, 5299.0 (number of hits: 12)
2	5530.0	9	1.0	333	1	5645.0, 5615.0, 5599.0, 5614.0, 5391.0, 5719.0, 5346.0, 5612.0, 5378.0, 5480.0, 5448.0, 5252.0, 5589.0, 5541.0, 5369.0, 5656.0, 5533.0, 5689.0, 5591.0, 5284.0, 5634.0, 5341.0, 5504.0, 5280.0, 5512.0, 5344.0, 5439.0, 5445.0, 5309.0, 5442.0, 5272.0, 5364.0, 5268.0, 5411.0, 5630.0, 5406.0, 5685.0, 5574.0, 5602.0, 5381.0, 5658.0, 5613.0, 5701.0, 5363.0, 5555.0, 5408.0, 5649.0, 5379.0, 5607.0, 5371.0, 5700.0, 5419.0, 5570.0, 5459.0, 5489.0, 5266.0, 5513.0, 5356.0, 5440.0, 5675.0, 5644.0, 5253.0, 5484.0, 5528.0, 5606.0, 5572.0, 5702.0, 5710.0, 5328.0, 5550.0, 5389.0, 5255.0, 5690.0, 5287.0, 5618.0, 5592.0, 5631.0, 5650.0, 5330.0, 5581.0, 5715.0, 5322.0, 5340.0, 5605.0, 5271.0, 5670.0, 5444.0, 5466.0, 5404.0, 5470.0, 5441.0, 5527.0, 5707.0, 5545.0, 5563.0, 5598.0, 5400.0, 5483.0, 5386.0, 5333.0 (number of hits: 11)
3	5530.0	9	1.0	333	1	5397.0, 5605.0, 5316.0, 5307.0, 5666.0, 5715.0, 5427.0, 5723.0, 5483.0, 5507.0, 5679.0, 5381.0, 5602.0, 5491.0, 5494.0, 5269.0, 5615.0, 5433.0, 5438.0, 5594.0, 5454.0, 5380.0, 5402.0, 5376.0, 5412.0, 5568.0, 5385.0, 5479.0, 5358.0, 5720.0, 5446.0, 5553.0, 5556.0, 5611.0, 5387.0, 5578.0, 5400.0, 5654.0, 5545.0, 5281.0, 5702.0, 5267.0, 5682.0, 5712.0, 5492.0, 5473.0, 5522.0, 5613.0, 5511.0, 5565.0, 5687.0, 5439.0, 5343.0, 5449.0, 5669.0, 5468.0, 5411.0, 5328.0, 5332.0, 5560.0, 5505.0, 5373.0, 5630.0, 5525.0, 5620.0, 5541.0, 5665.0, 5254.0, 5295.0, 5266.0, 5701.0, 5490.0, 5509.0, 5610.0, 5270.0, 5641.0, 5356.0, 5489.0, 5347.0, 5495.0, 5423.0, 5425.0, 5648.0, 5398.0, 5684.0, 5477.0, 5417.0, 5690.0, 5319.0, 5546.0, 5670.0, 5472.0, 5482.0, 5707.0, 5496.0, 5515.0, 5627.0, 5367.0, 5256.0, 5636.0 (number of hits: 18)
4	5530.0	9	1.0	333	1	5331.0, 5519.0, 5720.0, 5618.0, 5323.0, 5493.0, 5529.0, 5556.0, 5269.0, 5516.0, 5598.0, 5309.0, 5352.0, 5697.0, 5682.0, 5448.0, 5296.0, 5538.0, 5353.0, 5396.0, 5462.0, 5675.0, 5523.0, 5398.0, 5477.0, 5573.0, 5600.0, 5605.0, 5666.0, 5662.0, 5488.0, 5545.0, 5700.0, 5714.0, 5716.0, 5655.0, 5515.0, 5702.0, 5698.0, 5587.0, 5429.0, 5602.0, 5342.0, 5386.0, 5487.0, 5576.0, 5616.0, 5678.0, 5674.0, 5301.0, 5512.0, 5432.0, 5524.0, 5385.0, 5463.0, 5379.0, 5578.0, 5645.0, 5401.0, 5268.0, 5329.0, 5664.0, 5526.0, 5451.0, 5657.0, 5522.0, 5672.0, 5612.0, 5617.0, 5622.0, 5621.0, 5533.0, 5537.0, 5507.0, 5343.0, 5468.0, 5411.0, 5715.0, 5260.0, 5417.0, 5717.0, 5601.0, 5422.0, 5501.0, 5711.0, 5639.0, 5681.0, 5661.0, 5695.0, 5514.0, 5297.0, 5415.0, 5416.0, 5377.0, 5356.0, 5668.0, 5611.0, 5624.0, 5696.0, 5472.0 (number of hits: 18)
5	5530.0	9	1.0	333	1	5723.0, 5386.0, 5405.0, 5510.0, 5588.0, 5284.0, 5355.0, 5471.0, 5682.0, 5274.0, 5704.0, 5428.0, 5331.0, 5306.0, 5347.0, 5587.0, 5642.0, 5554.0, 5360.0, 5318.0, 5657.0, 5513.0, 5634.0, 5278.0,

						5557.0, 5450.0, 5442.0, 5586.0, 5276.0, 5622.0, 5484.0, 5267.0, 5288.0, 5691.0, 5285.0, 5671.0, 5547.0, 5579.0, 5465.0, 5421.0, 5494.0, 5523.0, 5305.0, 5566.0, 5303.0, 5672.0, 5263.0, 5584.0, 5384.0, 5630.0, 5500.0, 5429.0, 5310.0, 5283.0, 5661.0, 5611.0, 5608.0, 5297.0, 5426.0, 5532.0, 5571.0, 5596.0, 5253.0, 5322.0, 5632.0, 5499.0, 5550.0, 5433.0, 5390.0, 5623.0, 5572.0, 5353.0, 5382.0, 5698.0, 5527.0, 5286.0, 5464.0, 5625.0, 5264.0, 5439.0, 5261.0, 5272.0, 5289.0, 5486.0, 5334.0, 5251.0, 5653.0, 5307.0, 5710.0, 5299.0, 5635.0, 5637.0, 5454.0, 5563.0, 5271.0, 5675.0, 5600.0, 5448.0, 5366.0, 5567.0 (number of hits: 15)
6	5530.0	9	1.0	333	1	5655.0, 5414.0, 5609.0, 5621.0, 5401.0, 5276.0, 5261.0, 5485.0, 5316.0, 5577.0, 5298.0, 5281.0, 5692.0, 5721.0, 5512.0, 5286.0, 5722.0, 5572.0, 5677.0, 5498.0, 5632.0, 5465.0, 5368.0, 5416.0, 5628.0, 5463.0, 5569.0, 5263.0, 5324.0, 5669.0, 5541.0, 5321.0, 5301.0, 5447.0, 5398.0, 5369.0, 5409.0, 5635.0, 5283.0, 5335.0, 5394.0, 5564.0, 5273.0, 5439.0, 5425.0, 5718.0, 5643.0, 5543.0, 5351.0, 5413.0, 5362.0, 5491.0, 5519.0, 5342.0, 5420.0, 5703.0, 5534.0, 5481.0, 5328.0, 5446.0, 5472.0, 5521.0, 5275.0, 5295.0, 5489.0, 5653.0, 5528.0, 5279.0, 5607.0, 5387.0, 5675.0, 5339.0, 5370.0, 5345.0, 5660.0, 5395.0, 5611.0, 5662.0, 5548.0, 5399.0, 5674.0, 5665.0, 5424.0, 5338.0, 5510.0, 5588.0, 5327.0, 5639.0, 5603.0, 5410.0, 5673.0, 5482.0, 5644.0, 5553.0, 5388.0, 5596.0, 5520.0, 5353.0, 5576.0, 5495.0 (number of hits: 14)
7	5530.0	9	1.0	333	1	5266.0, 5356.0, 5449.0, 5255.0, 5468.0, 5404.0, 5543.0, 5704.0, 5544.0, 5360.0, 5442.0, 5460.0, 5284.0, 5480.0, 5624.0, 5411.0, 5695.0, 5613.0, 5394.0, 5699.0, 5602.0, 5312.0, 5512.0, 5397.0, 5560.0, 5367.0, 5378.0, 5598.0, 5672.0, 5707.0, 5670.0, 5491.0, 5713.0, 5364.0, 5439.0, 5673.0, 5650.0, 5723.0, 5314.0, 5592.0, 5519.0, 5509.0, 5427.0, 5635.0, 5337.0, 5678.0, 5398.0, 5594.0, 5711.0, 5507.0, 5535.0, 5458.0, 5577.0, 5627.0, 5369.0, 5557.0, 5485.0, 5269.0, 5308.0, 5264.0, 5267.0, 5420.0, 5652.0, 5319.0, 5692.0, 5634.0, 5694.0, 5461.0, 5338.0, 5426.0, 5298.0, 5574.0, 5642.0, 5490.0, 5541.0, 5630.0, 5590.0, 5373.0, 5601.0, 5396.0, 5633.0, 5701.0, 5520.0, 5444.0, 5591.0, 5629.0, 5665.0, 5552.0, 5481.0, 5572.0, 5465.0, 5472.0, 5355.0, 5417.0, 5565.0, 5474.0, 5462.0, 5431.0, 5567.0, 5280.0 (number of hits: 14)
8	5530.0	9	1.0	333	1	5608.0, 5399.0, 5643.0, 5498.0, 5676.0, 5323.0, 5448.0, 5483.0, 5664.0, 5481.0, 5471.0, 5457.0, 5623.0, 5406.0, 5449.0, 5252.0, 5324.0, 5365.0, 5503.0, 5428.0, 5712.0, 5605.0, 5285.0, 5280.0, 5509.0, 5580.0, 5321.0, 5650.0, 5472.0, 5701.0, 5372.0, 5377.0, 5615.0, 5562.0, 5722.0, 5427.0, 5389.0, 5489.0, 5549.0, 5686.0, 5296.0, 5564.0, 5697.0, 5329.0, 5272.0, 5341.0, 5470.0, 5446.0, 5495.0, 5258.0, 5555.0, 5271.0, 5354.0, 5454.0, 5547.0, 5696.0, 5589.0, 5515.0, 5313.0, 5526.0, 5527.0, 5426.0, 5378.0, 5675.0, 5560.0, 5622.0, 5631.0, 5281.0, 5672.0, 5496.0, 5533.0, 5665.0, 5525.0, 5574.0, 5322.0, 5535.0, 5353.0, 5450.0, 5582.0, 5275.0, 5505.0, 5657.0, 5402.0, 5349.0, 5551.0, 5444.0, 5432.0, 5619.0, 5641.0, 5325.0, 5255.0, 5569.0, 5656.0, 5266.0, 5721.0, 5588.0, 5606.0, 5531.0, 5332.0, 5673.0 (number of hits: 20)
9	5530.0	9	1.0	333	1	5556.0, 5418.0, 5719.0, 5679.0, 5672.0, 5674.0, 5474.0, 5289.0, 5551.0, 5319.0, 5566.0, 5283.0, 5438.0, 5293.0, 5254.0, 5295.0, 5660.0, 5616.0, 5377.0, 5408.0, 5491.0, 5437.0, 5617.0, 5476.0, 5472.0, 5682.0, 5256.0, 5508.0, 5375.0, 5251.0, 5393.0, 5397.0, 5447.0, 5302.0, 5471.0, 5349.0, 5490.0, 5500.0, 5677.0, 5580.0, 5610.0, 5433.0, 5364.0, 5665.0, 5278.0, 5322.0, 5480.0, 5441.0, 5483.0, 5582.0, 5332.0, 5415.0, 5316.0, 5605.0, 5632.0, 5315.0, 5427.0, 5275.0, 5530.0, 5381.0, 5718.0, 5390.0, 5473.0, 5619.0, 5396.0, 5354.0, 5313.0, 5618.0, 5504.0, 5633.0, 5686.0, 5274.0, 5342.0, 5694.0, 5505.0, 5631.0, 5479.0, 5374.0, 5537.0, 5711.0, 5386.0, 5272.0, 5503.0, 5517.0, 5510.0, 5590.0, 5549.0, 5655.0, 5271.0, 5482.0, 5555.0, 5515.0, 5680.0, 5599.0, 5341.0, 5399.0,

						5266.0, 5499.0, 5535.0, 5602.0 (number of hits: 17)
10	5530.0	9	1.0	333	1	5439.0, 5274.0, 5570.0, 5649.0, 5688.0, 5617.0, 5486.0, 5494.0, 5650.0, 5612.0, 5701.0, 5372.0, 5402.0, 5474.0, 5438.0, 5629.0, 5476.0, 5484.0, 5669.0, 5401.0, 5291.0, 5266.0, 5574.0, 5495.0, 5699.0, 5463.0, 5694.0, 5615.0, 5329.0, 5251.0, 5336.0, 5391.0, 5365.0, 5564.0, 5611.0, 5269.0, 5583.0, 5465.0, 5343.0, 5700.0, 5487.0, 5622.0, 5387.0, 5603.0, 5609.0, 5561.0, 5349.0, 5327.0, 5540.0, 5651.0, 5403.0, 5717.0, 5575.0, 5656.0, 5480.0, 5317.0, 5446.0, 5644.0, 5690.0, 5560.0, 5723.0, 5370.0, 5681.0, 5341.0, 5369.0, 5507.0, 5308.0, 5533.0, 5459.0, 5374.0, 5522.0, 5250.0, 5538.0, 5519.0, 5342.0, 5488.0, 5397.0, 5552.0, 5687.0, 5415.0, 5255.0, 5485.0, 5722.0, 5277.0, 5470.0, 5590.0, 5534.0, 5481.0, 5539.0, 5528.0, 5442.0, 5366.0, 5626.0, 5703.0, 5436.0, 5393.0, 5624.0, 5716.0, 5616.0, 5623.0 (number of hits: 15)
11	5530.0	9	1.0	333	1	5691.0, 5252.0, 5297.0, 5576.0, 5578.0, 5354.0, 5273.0, 5690.0, 5254.0, 5673.0, 5635.0, 5280.0, 5682.0, 5683.0, 5310.0, 5438.0, 5638.0, 5705.0, 5459.0, 5639.0, 5674.0, 5258.0, 5289.0, 5363.0, 5665.0, 5630.0, 5390.0, 5442.0, 5675.0, 5692.0, 5625.0, 5523.0, 5460.0, 5381.0, 5424.0, 5623.0, 5589.0, 5598.0, 5361.0, 5510.0, 5468.0, 5670.0, 5417.0, 5270.0, 5420.0, 5710.0, 5267.0, 5602.0, 5430.0, 5446.0, 5646.0, 5386.0, 5648.0, 5601.0, 5535.0, 5484.0, 5371.0, 5264.0, 5521.0, 5491.0, 5452.0, 5555.0, 5295.0, 5512.0, 5312.0, 5388.0, 5693.0, 5661.0, 5338.0, 5641.0, 5664.0, 5482.0, 5372.0, 5612.0, 5294.0, 5706.0, 5407.0, 5291.0, 5393.0, 5723.0, 5448.0, 5643.0, 5603.0, 5292.0, 5469.0, 5704.0, 5569.0, 5501.0, 5724.0, 5434.0, 5493.0, 5553.0, 5307.0, 5700.0, 5419.0, 5610.0, 5617.0, 5627.0, 5650.0, 5668.0 (number of hits: 9)
12	5530.0	9	1.0	333	1	5463.0, 5517.0, 5607.0, 5602.0, 5291.0, 5361.0, 5481.0, 5512.0, 5368.0, 5708.0, 5299.0, 5620.0, 5309.0, 5495.0, 5389.0, 5686.0, 5526.0, 5519.0, 5706.0, 5274.0, 5404.0, 5338.0, 5304.0, 5499.0, 5341.0, 5266.0, 5623.0, 5405.0, 5645.0, 5317.0, 5693.0, 5415.0, 5257.0, 5507.0, 5505.0, 5647.0, 5377.0, 5364.0, 5352.0, 5487.0, 5285.0, 5392.0, 5613.0, 5724.0, 5513.0, 5343.0, 5579.0, 5348.0, 5531.0, 5272.0, 5402.0, 5432.0, 5715.0, 5268.0, 5489.0, 5503.0, 5283.0, 5333.0, 5633.0, 5486.0, 5253.0, 5452.0, 5397.0, 5263.0, 5575.0, 5636.0, 5612.0, 5294.0, 5474.0, 5644.0, 5327.0, 5529.0, 5384.0, 5571.0, 5608.0, 5542.0, 5310.0, 5460.0, 5689.0, 5446.0, 5420.0, 5369.0, 5649.0, 5583.0, 5314.0, 5582.0, 5472.0, 5545.0, 5713.0, 5625.0, 5595.0, 5270.0, 5450.0, 5611.0, 5490.0, 5648.0, 5508.0, 5297.0, 5350.0, 5395.0 (number of hits: 15)
13	5530.0	9	1.0	333	1	5350.0, 5337.0, 5306.0, 5515.0, 5338.0, 5709.0, 5621.0, 5614.0, 5456.0, 5617.0, 5684.0, 5615.0, 5267.0, 5666.0, 5397.0, 5345.0, 5620.0, 5562.0, 5594.0, 5628.0, 5451.0, 5355.0, 5527.0, 5581.0, 5510.0, 5586.0, 5370.0, 5344.0, 5346.0, 5689.0, 5695.0, 5323.0, 5303.0, 5384.0, 5365.0, 5662.0, 5373.0, 5552.0, 5686.0, 5270.0, 5300.0, 5450.0, 5535.0, 5292.0, 5424.0, 5672.0, 5277.0, 5690.0, 5484.0, 5655.0, 5302.0, 5334.0, 5500.0, 5445.0, 5325.0, 5703.0, 5711.0, 5349.0, 5506.0, 5598.0, 5301.0, 5611.0, 5631.0, 5367.0, 5606.0, 5316.0, 5251.0, 5443.0, 5512.0, 5356.0, 5293.0, 5722.0, 5379.0, 5575.0, 5333.0, 5305.0, 5491.0, 5578.0, 5369.0, 5568.0, 5312.0, 5271.0, 5438.0, 5466.0, 5646.0, 5296.0, 5471.0, 5332.0, 5419.0, 5520.0, 5671.0, 5693.0, 5536.0, 5428.0, 5554.0, 5412.0, 5564.0, 5604.0, 5261.0, 5281.0 (number of hits: 13)
14	5530.0	9	1.0	333	1	5645.0, 5513.0, 5574.0, 5714.0, 5556.0, 5448.0, 5298.0, 5318.0, 5495.0, 5635.0, 5580.0, 5523.0, 5264.0, 5480.0, 5322.0, 5282.0, 5593.0, 5432.0, 5520.0, 5624.0, 5350.0, 5589.0, 5583.0, 5305.0, 5675.0, 5628.0, 5658.0, 5692.0, 5594.0, 5295.0, 5643.0, 5607.0, 5496.0, 5347.0, 5423.0, 5294.0, 5439.0, 5510.0, 5505.0, 5419.0, 5598.0, 5676.0, 5370.0, 5536.0, 5412.0, 5440.0, 5469.0, 5557.0, 5527.0, 5302.0, 5646.0, 5712.0, 5579.0, 5274.0, 5614.0, 5634.0, 5621.0, 5564.0, 5325.0, 5304.0, 5582.0, 5476.0, 5577.0, 5616.0,

						5407.0, 5689.0, 5267.0, 5394.0, 5271.0, 5569.0, 5474.0, 5560.0, 5268.0, 5436.0, 5345.0, 5286.0, 5559.0, 5430.0, 5487.0, 5351.0, 5312.0, 5638.0, 5586.0, 5261.0, 5596.0, 5361.0, 5718.0, 5426.0, 5685.0, 5526.0, 5668.0, 5688.0, 5330.0, 5403.0, 5299.0, 5674.0, 5567.0, 5693.0, 5669.0, 5297.0 (number of hits: 16)
15	5530.0	9	1.0	333	1	5487.0, 5436.0, 5595.0, 5621.0, 5393.0, 5620.0, 5524.0, 5423.0, 5623.0, 5572.0, 5715.0, 5259.0, 5347.0, 5335.0, 5678.0, 5293.0, 5704.0, 5641.0, 5265.0, 5437.0, 5357.0, 5518.0, 5285.0, 5539.0, 5368.0, 5651.0, 5709.0, 5484.0, 5507.0, 5564.0, 5405.0, 5342.0, 5338.0, 5341.0, 5510.0, 5580.0, 5603.0, 5629.0, 5444.0, 5318.0, 5600.0, 5471.0, 5447.0, 5468.0, 5583.0, 5311.0, 5573.0, 5669.0, 5689.0, 5356.0, 5438.0, 5377.0, 5522.0, 5319.0, 5267.0, 5660.0, 5375.0, 5465.0, 5661.0, 5520.0, 5680.0, 5606.0, 5491.0, 5538.0, 5586.0, 5659.0, 5264.0, 5551.0, 5694.0, 5692.0, 5260.0, 5571.0, 5398.0, 5366.0, 5269.0, 5322.0, 5579.0, 5355.0, 5275.0, 5673.0, 5533.0, 5633.0, 5379.0, 5420.0, 5535.0, 5271.0, 5263.0, 5639.0, 5618.0, 5527.0, 5568.0, 5638.0, 5359.0, 5298.0, 5404.0, 5435.0, 5417.0, 5408.0, 5668.0, 5708.0 (number of hits: 13)
16	5530.0	9	1.0	333	1	5721.0, 5668.0, 5547.0, 5451.0, 5446.0, 5574.0, 5629.0, 5301.0, 5703.0, 5712.0, 5469.0, 5380.0, 5506.0, 5386.0, 5366.0, 5426.0, 5681.0, 5617.0, 5692.0, 5468.0, 5327.0, 5387.0, 5465.0, 5595.0, 5278.0, 5626.0, 5688.0, 5362.0, 5389.0, 5302.0, 5299.0, 5641.0, 5654.0, 5689.0, 5345.0, 5363.0, 5421.0, 5502.0, 5554.0, 5405.0, 5667.0, 5533.0, 5542.0, 5490.0, 5383.0, 5697.0, 5699.0, 5291.0, 5323.0, 5503.0, 5505.0, 5676.0, 5536.0, 5368.0, 5596.0, 5640.0, 5311.0, 5351.0, 5259.0, 5358.0, 5719.0, 5659.0, 5687.0, 5494.0, 5678.0, 5464.0, 5504.0, 5686.0, 5384.0, 5418.0, 5572.0, 5413.0, 5496.0, 5254.0, 5559.0, 5602.0, 5458.0, 5333.0, 5403.0, 5525.0, 5484.0, 5390.0, 5570.0, 5316.0, 5452.0, 5359.0, 5275.0, 5609.0, 5379.0, 5575.0, 5661.0, 5616.0, 5402.0, 5639.0, 5423.0, 5483.0, 5273.0, 5649.0, 5336.0, 5549.0 (number of hits: 15)
17	5530.0	9	1.0	333	1	5651.0, 5275.0, 5256.0, 5609.0, 5493.0, 5414.0, 5283.0, 5575.0, 5406.0, 5514.0, 5478.0, 5285.0, 5301.0, 5564.0, 5418.0, 5604.0, 5374.0, 5674.0, 5692.0, 5523.0, 5270.0, 5558.0, 5713.0, 5460.0, 5606.0, 5681.0, 5442.0, 5702.0, 5517.0, 5345.0, 5554.0, 5317.0, 5437.0, 5443.0, 5673.0, 5325.0, 5597.0, 5645.0, 5721.0, 5370.0, 5449.0, 5625.0, 5408.0, 5503.0, 5268.0, 5361.0, 5656.0, 5543.0, 5337.0, 5319.0, 5376.0, 5438.0, 5378.0, 5338.0, 5633.0, 5344.0, 5351.0, 5646.0, 5289.0, 5568.0, 5684.0, 5293.0, 5722.0, 5398.0, 5292.0, 5700.0, 5534.0, 5488.0, 5714.0, 5658.0, 5339.0, 5340.0, 5605.0, 5453.0, 5380.0, 5423.0, 5565.0, 5389.0, 5300.0, 5615.0, 5649.0, 5266.0, 5311.0, 5504.0, 5395.0, 5281.0, 5521.0, 5411.0, 5551.0, 5709.0, 5509.0, 5399.0, 5392.0, 5608.0, 5294.0, 5675.0, 5617.0, 5377.0, 5661.0, 5315.0 (number of hits: 15)
18	5530.0	9	1.0	333	0	
19	5530.0	9	1.0	333	1	5711.0, 5673.0, 5487.0, 5344.0, 5558.0, 5445.0, 5355.0, 5599.0, 5438.0, 5513.0, 5552.0, 5372.0, 5272.0, 5443.0, 5697.0, 5478.0, 5518.0, 5332.0, 5640.0, 5339.0, 5466.0, 5451.0, 5605.0, 5568.0, 5602.0, 5719.0, 5488.0, 5392.0, 5610.0, 5654.0, 5337.0, 5698.0, 5565.0, 5595.0, 5393.0, 5276.0, 5724.0, 5556.0, 5364.0, 5645.0, 5289.0, 5718.0, 5427.0, 5709.0, 5569.0, 5622.0, 5442.0, 5334.0, 5576.0, 5320.0, 5688.0, 5496.0, 5641.0, 5722.0, 5351.0, 5545.0, 5340.0, 5684.0, 5507.0, 5297.0, 5413.0, 5525.0, 5262.0, 5685.0, 5589.0, 5485.0, 5676.0, 5491.0, 5586.0, 5476.0, 5363.0, 5632.0, 5553.0, 5377.0, 5402.0, 5560.0, 5281.0, 5519.0, 5412.0, 5329.0, 5333.0, 5416.0, 5636.0, 5303.0, 5517.0, 5607.0, 5644.0, 5411.0, 5359.0, 5325.0, 5662.0, 5627.0, 5703.0, 5446.0, 5651.0, 5378.0, 5345.0, 5511.0, 5433.0, 5710.0 (number of hits: 15)
20	5530.0	9	1.0	333	1	5318.0, 5561.0, 5275.0, 5577.0, 5375.0, 5489.0, 5542.0, 5333.0, 5501.0, 5662.0, 5677.0, 5323.0, 5500.0, 5314.0, 5530.0, 5617.0, 5261.0, 5329.0, 5706.0, 5340.0, 5528.0, 5644.0, 5438.0, 5338.0,

						5267.0, 5288.0, 5610.0, 5536.0, 5268.0, 5686.0, 5458.0, 5414.0, 5657.0, 5372.0, 5300.0, 5455.0, 5685.0, 5440.0, 5650.0, 5397.0, 5715.0, 5317.0, 5413.0, 5583.0, 5611.0, 5641.0, 5623.0, 5493.0, 5469.0, 5620.0, 5416.0, 5605.0, 5527.0, 5631.0, 5699.0, 5700.0, 5283.0, 5368.0, 5271.0, 5667.0, 5562.0, 5593.0, 5628.0, 5495.0, 5400.0, 5447.0, 5573.0, 5512.0, 5252.0, 5560.0, 5259.0, 5479.0, 5435.0, 5382.0, 5639.0, 5585.0, 5723.0, 5587.0, 5621.0, 5302.0, 5401.0, 5462.0, 5497.0, 5377.0, 5666.0, 5627.0, 5387.0, 5452.0, 5309.0, 5669.0, 5376.0, 5367.0, 5448.0, 5694.0, 5649.0, 5546.0, 5362.0, 5357.0, 5354.0, 5682.0 (number of hits: 15)
21	5530.0	9	1.0	333	1	5384.0, 5623.0, 5374.0, 5519.0, 5451.0, 5570.0, 5552.0, 5335.0, 5515.0, 5540.0, 5658.0, 5643.0, 5415.0, 5469.0, 5667.0, 5616.0, 5263.0, 5348.0, 5690.0, 5553.0, 5425.0, 5561.0, 5364.0, 5541.0, 5430.0, 5320.0, 5428.0, 5486.0, 5328.0, 5668.0, 5390.0, 5597.0, 5514.0, 5584.0, 5341.0, 5714.0, 5465.0, 5477.0, 5261.0, 5334.0, 5412.0, 5296.0, 5287.0, 5628.0, 5548.0, 5595.0, 5380.0, 5513.0, 5687.0, 5653.0, 5409.0, 5492.0, 5647.0, 5253.0, 5327.0, 5645.0, 5368.0, 5311.0, 5567.0, 5273.0, 5312.0, 5338.0, 5421.0, 5539.0, 5560.0, 5708.0, 5336.0, 5344.0, 5649.0, 5503.0, 5707.0, 5446.0, 5332.0, 5569.0, 5566.0, 5523.0, 5286.0, 5441.0, 5360.0, 5259.0, 5453.0, 5387.0, 5461.0, 5547.0, 5659.0, 5413.0, 5508.0, 5442.0, 5382.0, 5592.0, 5534.0, 5401.0, 5264.0, 5706.0, 5502.0, 5400.0, 5299.0, 5542.0, 5482.0, 5262.0 (number of hits: 22)
22	5530.0	9	1.0	333	1	5605.0, 5390.0, 5350.0, 5614.0, 5317.0, 5552.0, 5518.0, 5650.0, 5555.0, 5564.0, 5495.0, 5649.0, 5352.0, 5295.0, 5348.0, 5301.0, 5522.0, 5489.0, 5651.0, 5609.0, 5282.0, 5576.0, 5280.0, 5587.0, 5443.0, 5486.0, 5676.0, 5394.0, 5459.0, 5380.0, 5267.0, 5412.0, 5612.0, 5599.0, 5433.0, 5515.0, 5292.0, 5481.0, 5277.0, 5351.0, 5572.0, 5722.0, 5684.0, 5692.0, 5263.0, 5391.0, 5395.0, 5484.0, 5562.0, 5283.0, 5602.0, 5715.0, 5695.0, 5719.0, 5250.0, 5270.0, 5303.0, 5470.0, 5483.0, 5510.0, 5367.0, 5674.0, 5720.0, 5505.0, 5346.0, 5705.0, 5388.0, 5627.0, 5507.0, 5536.0, 5713.0, 5316.0, 5302.0, 5467.0, 5279.0, 5537.0, 5294.0, 5424.0, 5573.0, 5349.0, 5694.0, 5365.0, 5686.0, 5321.0, 5444.0, 5698.0, 5323.0, 5611.0, 5630.0, 5383.0, 5417.0, 5716.0, 5621.0, 5406.0, 5710.0, 5670.0, 5330.0, 5286.0, 5574.0, 5556.0 (number of hits: 14)
23	5530.0	9	1.0	333	1	5589.0, 5690.0, 5360.0, 5709.0, 5561.0, 5269.0, 5378.0, 5469.0, 5255.0, 5313.0, 5311.0, 5375.0, 5407.0, 5304.0, 5684.0, 5569.0, 5460.0, 5702.0, 5305.0, 5431.0, 5496.0, 5315.0, 5683.0, 5718.0, 5618.0, 5290.0, 5712.0, 5619.0, 5408.0, 5640.0, 5485.0, 5265.0, 5297.0, 5470.0, 5353.0, 5429.0, 5615.0, 5438.0, 5468.0, 5449.0, 5251.0, 5442.0, 5689.0, 5550.0, 5667.0, 5688.0, 5381.0, 5388.0, 5636.0, 5380.0, 5609.0, 5258.0, 5319.0, 5557.0, 5386.0, 5270.0, 5620.0, 5263.0, 5668.0, 5682.0, 5521.0, 5317.0, 5489.0, 5544.0, 5685.0, 5504.0, 5294.0, 5593.0, 5502.0, 5585.0, 5261.0, 5605.0, 5266.0, 5505.0, 5581.0, 5602.0, 5272.0, 5364.0, 5412.0, 5549.0, 5322.0, 5721.0, 5553.0, 5532.0, 5363.0, 5588.0, 5275.0, 5657.0, 5632.0, 5293.0, 5681.0, 5660.0, 5256.0, 5570.0, 5526.0, 5369.0, 5652.0, 5541.0, 5264.0, 5630.0 (number of hits: 14)
24	5530.0	9	1.0	333	1	5348.0, 5545.0, 5538.0, 5527.0, 5683.0, 5706.0, 5703.0, 5395.0, 5312.0, 5344.0, 5487.0, 5447.0, 5415.0, 5586.0, 5515.0, 5495.0, 5455.0, 5294.0, 5480.0, 5513.0, 5660.0, 5518.0, 5631.0, 5680.0, 5342.0, 5300.0, 5704.0, 5618.0, 5514.0, 5560.0, 5272.0, 5369.0, 5468.0, 5441.0, 5501.0, 5387.0, 5287.0, 5723.0, 5621.0, 5613.0, 5461.0, 5476.0, 5286.0, 5306.0, 5429.0, 5489.0, 5485.0, 5376.0, 5437.0, 5372.0, 5498.0, 5507.0, 5630.0, 5341.0, 5310.0, 5499.0, 5673.0, 5465.0, 5406.0, 5283.0, 5497.0, 5648.0, 5632.0, 5681.0, 5353.0, 5579.0, 5663.0, 5386.0, 5548.0, 5413.0, 5346.0, 5265.0, 5357.0, 5425.0, 5529.0, 5510.0, 5414.0, 5713.0, 5270.0, 5315.0, 5620.0, 5676.0, 5333.0, 5685.0, 5700.0, 5598.0, 5654.0, 5362.0, 5635.0, 5572.0, 5405.0, 5643.0, 5293.0, 5382.0, 5653.0, 5321.0,

						5616.0, 5334.0, 5568.0, 5347.0 (number of hits: 17)
25	5530.0	9	1.0	333	1	5475.0, 5616.0, 5500.0, 5361.0, 5359.0, 5559.0, 5543.0, 5462.0, 5586.0, 5597.0, 5664.0, 5524.0, 5598.0, 5281.0, 5526.0, 5673.0, 5679.0, 5693.0, 5717.0, 5512.0, 5376.0, 5449.0, 5626.0, 5627.0, 5579.0, 5711.0, 5676.0, 5697.0, 5505.0, 5467.0, 5662.0, 5667.0, 5431.0, 5521.0, 5550.0, 5292.0, 5335.0, 5705.0, 5338.0, 5652.0, 5548.0, 5610.0, 5600.0, 5720.0, 5476.0, 5418.0, 5581.0, 5516.0, 5639.0, 5568.0, 5508.0, 5463.0, 5540.0, 5300.0, 5723.0, 5669.0, 5473.0, 5419.0, 5714.0, 5573.0, 5696.0, 5390.0, 5308.0, 5344.0, 5640.0, 5360.0, 5375.0, 5328.0, 5683.0, 5391.0, 5444.0, 5493.0, 5590.0, 5591.0, 5599.0, 5428.0, 5374.0, 5349.0, 5668.0, 5454.0, 5506.0, 5332.0, 5564.0, 5523.0, 5538.0, 5602.0, 5495.0, 5641.0, 5298.0, 5478.0, 5348.0, 5634.0, 5520.0, 5563.0, 5529.0, 5309.0, 5584.0, 5441.0, 5263.0, 5681.0 (number of hits: 22)
26	5530.0	9	1.0	333	1	5613.0, 5466.0, 5499.0, 5415.0, 5691.0, 5387.0, 5478.0, 5645.0, 5266.0, 5420.0, 5257.0, 5418.0, 5619.0, 5712.0, 5685.0, 5697.0, 5690.0, 5291.0, 5290.0, 5368.0, 5403.0, 5333.0, 5687.0, 5546.0, 5607.0, 5425.0, 5355.0, 5446.0, 5296.0, 5597.0, 5322.0, 5465.0, 5599.0, 5336.0, 5396.0, 5282.0, 5299.0, 5298.0, 5511.0, 5563.0, 5614.0, 5477.0, 5615.0, 5331.0, 5306.0, 5548.0, 5433.0, 5437.0, 5413.0, 5432.0, 5714.0, 5459.0, 5703.0, 5484.0, 5672.0, 5664.0, 5302.0, 5693.0, 5316.0, 5388.0, 5392.0, 5279.0, 5661.0, 5688.0, 5401.0, 5452.0, 5273.0, 5390.0, 5384.0, 5325.0, 5572.0, 5552.0, 5476.0, 5315.0, 5258.0, 5581.0, 5488.0, 5448.0, 5487.0, 5666.0, 5326.0, 5468.0, 5710.0, 5261.0, 5702.0, 5692.0, 5683.0, 5633.0, 5513.0, 5534.0, 5349.0, 5364.0, 5426.0, 5720.0, 5573.0, 5555.0, 5570.0, 5606.0, 5391.0, 5520.0 (number of hits: 10)
27	5530.0	9	1.0	333	1	5535.0, 5402.0, 5630.0, 5253.0, 5431.0, 5388.0, 5499.0, 5646.0, 5466.0, 5534.0, 5487.0, 5305.0, 5623.0, 5601.0, 5260.0, 5598.0, 5639.0, 5633.0, 5318.0, 5264.0, 5369.0, 5437.0, 5404.0, 5336.0, 5293.0, 5411.0, 5301.0, 5692.0, 5364.0, 5707.0, 5341.0, 5536.0, 5355.0, 5552.0, 5483.0, 5663.0, 5704.0, 5557.0, 5518.0, 5650.0, 5616.0, 5450.0, 5383.0, 5366.0, 5367.0, 5551.0, 5572.0, 5618.0, 5576.0, 5720.0, 5683.0, 5509.0, 5315.0, 5440.0, 5539.0, 5365.0, 5544.0, 5329.0, 5543.0, 5709.0, 5712.0, 5279.0, 5360.0, 5382.0, 5608.0, 5359.0, 5374.0, 5356.0, 5461.0, 5573.0, 5631.0, 5526.0, 5467.0, 5585.0, 5545.0, 5622.0, 5310.0, 5254.0, 5525.0, 5362.0, 5538.0, 5420.0, 5476.0, 5480.0, 5465.0, 5719.0, 5288.0, 5559.0, 5548.0, 5432.0, 5391.0, 5606.0, 5531.0, 5653.0, 5415.0, 5453.0, 5297.0, 5698.0, 5635.0, 5629.0 (number of hits: 19)
28	5530.0	9	1.0	333	1	5705.0, 5284.0, 5472.0, 5437.0, 5365.0, 5640.0, 5636.0, 5577.0, 5572.0, 5262.0, 5688.0, 5722.0, 5703.0, 5571.0, 5466.0, 5260.0, 5346.0, 5331.0, 5296.0, 5387.0, 5318.0, 5268.0, 5454.0, 5653.0, 5338.0, 5607.0, 5386.0, 5364.0, 5558.0, 5455.0, 5634.0, 5463.0, 5563.0, 5713.0, 5578.0, 5470.0, 5274.0, 5509.0, 5500.0, 5413.0, 5366.0, 5586.0, 5520.0, 5451.0, 5381.0, 5488.0, 5681.0, 5277.0, 5478.0, 5259.0, 5666.0, 5392.0, 5512.0, 5334.0, 5620.0, 5316.0, 5441.0, 5627.0, 5370.0, 5576.0, 5426.0, 5594.0, 5615.0, 5630.0, 5315.0, 5255.0, 5332.0, 5409.0, 5446.0, 5639.0, 5485.0, 5456.0, 5269.0, 5337.0, 5378.0, 5513.0, 5591.0, 5702.0, 5461.0, 5410.0, 5658.0, 5536.0, 5299.0, 5600.0, 5279.0, 5507.0, 5505.0, 5367.0, 5401.0, 5623.0, 5398.0, 5305.0, 5490.0, 5476.0, 5704.0, 5445.0, 5679.0, 5288.0, 5581.0, 5278.0 (number of hits: 10)
29	5530.0	9	1.0	333	1	5599.0, 5475.0, 5632.0, 5668.0, 5365.0, 5406.0, 5545.0, 5362.0, 5505.0, 5411.0, 5277.0, 5263.0, 5514.0, 5572.0, 5420.0, 5424.0, 5345.0, 5506.0, 5280.0, 5255.0, 5597.0, 5677.0, 5497.0, 5393.0, 5525.0, 5462.0, 5353.0, 5309.0, 5341.0, 5635.0, 5273.0, 5427.0, 5472.0, 5443.0, 5315.0, 5394.0, 5469.0, 5366.0, 5317.0, 5675.0, 5292.0, 5544.0, 5571.0, 5524.0, 5511.0, 5325.0, 5515.0, 5372.0, 5528.0, 5611.0, 5578.0, 5399.0, 5316.0, 5693.0, 5410.0, 5522.0, 5685.0, 5457.0, 5499.0, 5684.0, 5398.0, 5407.0, 5607.0, 5278.0,

						5358.0, 5537.0, 5692.0, 5634.0, 5508.0, 5566.0, 5286.0, 5588.0, 5446.0, 5403.0, 5565.0, 5262.0, 5455.0, 5250.0, 5363.0, 5408.0, 5346.0, 5547.0, 5435.0, 5627.0, 5558.0, 5268.0, 5373.0, 5396.0, 5392.0, 5542.0, 5474.0, 5252.0, 5666.0, 5327.0, 5689.0, 5500.0, 5722.0, 5661.0, 5284.0, 5468.0 (number of hits: 21)
30	5530.0	9	1.0	333	1	5712.0, 5492.0, 5500.0, 5383.0, 5320.0, 5705.0, 5463.0, 5316.0, 5591.0, 5502.0, 5574.0, 5398.0, 5436.0, 5370.0, 5470.0, 5367.0, 5551.0, 5428.0, 5314.0, 5696.0, 5471.0, 5581.0, 5687.0, 5537.0, 5333.0, 5363.0, 5484.0, 5595.0, 5624.0, 5344.0, 5626.0, 5298.0, 5346.0, 5659.0, 5674.0, 5419.0, 5351.0, 5498.0, 5264.0, 5301.0, 5507.0, 5433.0, 5557.0, 5635.0, 5490.0, 5547.0, 5326.0, 5522.0, 5633.0, 5385.0, 5270.0, 5435.0, 5702.0, 5521.0, 5619.0, 5648.0, 5720.0, 5275.0, 5677.0, 5271.0, 5604.0, 5391.0, 5400.0, 5396.0, 5287.0, 5613.0, 5553.0, 5485.0, 5281.0, 5504.0, 5616.0, 5636.0, 5607.0, 5426.0, 5469.0, 5304.0, 5587.0, 5388.0, 5545.0, 5387.0, 5684.0, 5430.0, 5707.0, 5573.0, 5268.0, 5605.0, 5576.0, 5691.0, 5614.0, 5603.0, 5361.0, 5349.0, 5709.0, 5608.0, 5527.0, 5489.0, 5434.0, 5680.0, 5293.0, 5615.0 (number of hits: 15)

**AP Mode
Pine Radio****5570 MHz, 160 MHz Bandwidth**

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1A/1B	30	96.7 %	60%	Pass
Type 2	30	90 %	60%	Pass
Type 3	30	83.3 %	60%	Pass
Type 4	30	80 %	60%	Pass
Aggregate (Type1 to 4)	120	87.5 %	80%	Pass
Type 5	30	100 %	80%	Pass
Type 6	30	100 %	70%	Pass

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

Note: Radar was generated randomly in the frequency range of 5490-5650 MHz.

Trial #	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	58	1.0	918	1
2	89	1.0	598	1
3	59	1.0	898	1
4	68	1.0	778	1
5	67	1.0	798	1
6	92	1.0	578	1
7	95	1.0	558	1
8	74	1.0	718	0
9	70	1.0	758	1
10	102	1.0	518	1
11	63	1.0	838	1
12	62	1.0	858	1
13	61	1.0	878	1
14	72	1.0	738	1
15	76	1.0	698	1
1	49	1.0	1093	1
2	20	1.0	2665	1
3	28	1.0	1948	1
4	21	1.0	2576	1
5	23	1.0	2394	1
6	33	1.0	1629	1
7	45	1.0	1173	1
8	19	1.0	2813	1
9	35	1.0	1546	1
10	50	1.0	1065	1
11	24	1.0	2215	1
12	57	1.0	939	1
13	23	1.0	2368	1
14	24	1.0	2281	1
15	20	1.0	2777	1
Detection Percentage: 96.7 % (>60%)				

Table-2 Radar Type 2 Statistical Performance

Note: Radar was generated randomly in the frequency range of 5490-5650 MHz.

Trial #	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	27	3.7	182	1
2	26	4.4	182	1
3	25	4.7	217	1
4	28	4.7	190	1
5	28	4.5	205	1
6	28	1.2	158	1
7	29	2.1	154	1
8	28	1.3	220	1
9	26	2.4	171	1
10	28	4.8	159	1
11	29	1.6	205	1
12	28	1.7	166	1
13	25	2.5	204	1
14	28	4.2	174	1
15	24	3.9	184	1
16	24	2.0	153	1
17	25	4.7	155	0
18	28	2.8	197	1
19	23	2.1	196	1
20	26	4.9	173	0
21	28	2.2	193	1
22	29	1.2	169	0
23	23	4.2	191	1
24	27	4.4	159	1
25	25	3.6	207	1
26	25	3.0	170	1
27	28	3.1	196	1
28	25	1.2	187	1
29	28	4.1	155	1
30	26	3.0	157	1
Detection Percentage: 90 % (>60%)				

Table-3 Radar Type 3 Statistical Performance

Note: Radar was generated randomly in the frequency range of 5490-5650 MHz.

Trial #	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	17	7.4	258	0
2	16	9.2	428	1
3	16	7.3	279	1
4	18	6.9	219	1
5	17	7.4	404	1
6	16	7.3	355	0
7	17	6.1	310	1
8	16	6.6	240	1
9	18	9.3	498	1
10	17	6.7	303	1
11	17	9.8	352	1
12	17	7.0	428	1
13	18	8.3	219	1
14	18	9.0	335	0
15	18	6.1	289	1
16	18	8.6	395	1
17	16	6.9	289	0
18	16	9.9	375	1
19	17	9.2	433	1
20	17	8.5	488	1
21	17	8.8	356	1
22	18	6.5	388	1
23	18	6.3	341	1
24	16	7.4	276	1
25	17	9.4	220	1
26	16	7.4	208	1
27	16	7.5	362	1
28	16	6.0	309	0
29	18	7.1	289	1
30	18	8.6	239	1
Detection Percentage: 83.3 % (>60%)				

Table-4 Radar Type 4 Statistical Performance

Note: Radar was generated randomly in the frequency range of 5490-5650 MHz.

Trial #	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	12	15.1	373	1
2	12	15.6	207	0
3	13	14.3	397	1
4	14	13.3	256	1
5	15	19.4	473	1
6	12	11.4	201	1
7	15	13.0	453	1
8	16	19.2	493	1
9	15	14.8	220	1
10	15	16.1	342	1
11	13	18.9	460	1
12	16	17.7	209	0
13	15	17.1	344	1
14	15	14.3	342	1
15	14	15.7	224	1
16	15	14.9	309	0
17	16	15.2	413	1
18	14	14.4	422	0
19	13	11.3	385	1
20	12	17.1	227	1
21	15	18.3	373	1
22	14	14.2	400	0
23	15	15.5	410	1
24	12	16.7	215	1
25	16	11.9	483	1
26	13	13.2	225	1
27	13	11.3	284	1
28	14	13.9	484	0
29	13	16.7	316	1
30	12	18.9	419	1
Detection Percentage: 80 % (>60%)				

Table-5 Radar Type 5 Statistical Performance

Trial #	Fc (MHz)	Detection (1:yes; 0:no)
1	5570	1
2	5570	1
3	5570	1
4	5570	1
5	5570	1
6	5570	1
7	5570	1
8	5570	1
9	5570	1
10	5570	1
11	5500.1	1
12	5497.7	1
13	5500.1	1
14	5495.7	1
15	5498.1	1
16	5500.1	1
17	5496.1	1
18	5494.9	1
19	5499.7	1
20	5498.5	1
21	5642.7	1
22	5640.7	1
23	5643.1	1
24	5639.5	1
25	5643.1	1
26	5642.3	1
27	5644.3	1
28	5643.9	1
29	5642.3	1
30	5645.1	1
Detection Percentage: 100 % (>80%)		

Bin5 Statistics 1

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	6	89.1	1483		0.511037	1
1	2	6	91.9	1602		0.844270	
2	1	6	62.9			1.574033	
3	2	6	73.1	1558		2.125472	
4	2	6	61.8	1777		2.608816	
5	1	6	82.8			3.056418	
6	2	6	88.8	1271		4.074961	
7	1	6	74.9			4.484684	
8	1	6	69.9			5.058344	
9	2	6	75.5	1395		5.951574	
10	1	6	75.2			6.037660	
11	3	6	79.1	1872	1828	7.138527	
12	2	6	73.2	1075		7.590433	
13	2	6	54.3	1337		7.914198	
14	2	6	87.9	1369		8.860195	
15	1	6	67.0			9.191439	
16	1	6	70.1			9.989088	
17	2	6	57.7	1773		10.268650	
18	2	6	91.7	1578		11.015163	
19	3	6	52.1	1807	1994	11.429127	

Bin5 Statistics 2

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	10	88.3	1632		0.108841	1
1	2	10	71.7	1797		0.932828	
2	3	10	84.9	1791	1261	1.899418	
3	2	10	64.1	1066		2.924064	
4	3	10	79.7	1374	1358	3.367389	
5	3	10	52.5	1329	1221	4.610745	
6	3	10	95.1	1641	1355	5.084255	
7	2	10	79.7	1286		6.010327	
8	2	10	85.3	1930		7.066084	
9	1	10	67.8			7.384425	
10	1	10	54.0			8.373484	
11	3	10	51.4	1568	1054	9.503343	
12	2	10	82.2	1382		10.003050	
13	2	10	61.0	1256		10.435265	
14	2	10	68.6	1559		11.500712	

Bin5 Statistics 3

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	12	99.1			0.248873	1
1	2	12	92.6	1248		0.762164	
2	1	12	54.1			1.639853	
3	2	12	86.5	1462		2.088190	
4	2	12	97.6	1850		2.749012	
5	1	12	73.1			3.610338	
6	2	12	91.7	1836		4.293415	
7	2	12	72.5	1723		4.756415	
8	3	12	85.4	1095	1965	5.110166	
9	2	12	57.6	1505		5.881612	
10	1	12	84.8			6.429938	
11	2	12	97.2	1933		7.329313	
12	1	12	86.1			8.180781	
13	2	12	78.4	1399		8.284338	
14	1	12	75.8			9.101010	
15	2	12	62.4	1359		9.885413	
16	1	12	66.8			10.531888	
17	1	12	88.9			11.190795	
18	2	12	53.9	1342		11.534929	

Bin5 Statistics 4

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	7	58.4			0.437753	1
1	1	7	98.1			1.146897	
2	2	7	69.5	1811		1.874258	
3	2	7	68.3	1966		1.912086	
4	3	7	53.9	1966	1508	2.872283	
5	1	7	74.1			3.496570	
6	2	7	80.8	1129		3.917468	
7	2	7	68.8	1215		4.554289	
8	3	7	86.1	1361	1549	5.333604	
9	2	7	55.4	1964		6.086181	
10	2	7	56.4	1010		6.938956	
11	3	7	90.6	1813	1996	7.086757	
12	3	7	83.1	1984	1791	7.617382	
13	3	7	60.4	1100	1970	8.636510	
14	1	7	72.0			9.027866	
15	1	7	80.9			10.000781	
16	2	7	68.6	1956		10.271944	
17	2	7	74.5	1752		11.022288	
18	3	7	56.2	1598	1973	11.585906	

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	9	68.9			0.063029	1
1	3	9	88.8	1194	1771	1.259817	
2	3	9	85.8	1156	1956	2.294065	
3	3	9	54.5	1344	1086	3.678060	
4	1	9	71.8			4.194579	
5	2	9	72.3	1236		5.453051	
6	2	9	53.8	1311		5.901276	
7	2	9	71.2	1906		6.874301	
8	3	9	63.8	1897	1150	7.638495	
9	1	9	73.8			8.722028	
10	1	9	68.3			9.526805	
11	3	9	89.9	1125	1984	10.182088	
12	2	9	93.3	1797		11.867940	

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	9	55.8	1964		0.629910	1
1	1	9	86.1			1.021894	
2	1	9	94.4			2.596160	
3	3	9	62.9	1769	1128	3.376334	
4	2	9	69.2	1650		4.859677	
5	2	9	87.7	1676		5.113225	
6	1	9	76.7			6.343516	
7	1	9	74.2			7.470064	
8	3	9	91.1	1715	1170	8.795368	
9	2	9	77.3	1880		9.266476	
10	1	9	71.7			10.902606	
11	2	9	89.5	1264		11.830273	

Bin5 Statistics 7

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	11	70.6	1429		0.598613	1
1	2	11	84.3	1457		2.111637	
2	3	11	55.2	1319	1660	3.296948	
3	1	11	53.8			4.744747	
4	2	11	78.9	1093		5.898452	
5	2	11	91.5	1724		6.723688	
6	1	11	50.1			7.712240	
7	1	11	79.2			8.990912	
8	2	11	78.8	1420		10.730455	
9	1	11	70.2			11.121881	

Bin5 Statistics 8

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	14	51.6	1816	1267	0.373938	1
1	2	14	70.1	1230		1.311913	
2	3	14	87.3	1844	1922	1.981470	
3	3	14	93.2	1240	1544	2.430725	
4	1	14	69.4			3.358275	
5	3	14	66.4	1194	1743	3.556338	
6	2	14	55.3	1066		4.478731	
7	2	14	83.7	1710		5.467954	
8	2	14	79.9	1444		6.148846	
9	1	14	99.1			6.497418	
10	1	14	72.9			7.207207	
11	2	14	75.1	1143		8.216081	
12	1	14	70.9			8.939128	
13	2	14	76.7	1496		9.420736	
14	1	14	82.7			10.076037	
15	2	14	50.2	1825		10.795034	
16	2	14	86.0	1424		11.856549	

Bin5 Statistics 9

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	14	82.7			0.223894	1
1	1	14	68.9			1.232555	
2	3	14	59.6	1681	1703	1.871340	
3	2	14	74.4	1166		2.215107	
4	2	14	51.6	1558		2.993909	
5	2	14	68.5	1572		3.991690	
6	2	14	77.3	1256		4.233086	
7	1	14	96.4			4.889549	
8	1	14	73.3			5.912575	
9	2	14	99.7	1920		6.339070	
10	2	14	71.4	1394		7.215110	
11	2	14	61.1	1293		7.599602	
12	3	14	58.3	1288	1334	8.107193	
13	1	14	64.3			8.797089	
14	1	14	84.0			9.772878	
15	2	14	57.0	1735		10.005245	
16	1	14	64.4			11.123512	
17	1	14	83.4			11.624359	

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	89.1	1331		0.175553	1
1	2	6	82.4	1374		0.800818	
2	3	6	53.2	1894	1055	1.434263	
3	2	6	89.8	1428		1.960104	
4	1	6	84.7			2.940211	
5	3	6	64.1	1555	1358	3.728291	
6	2	6	67.2	1899		4.261926	
7	1	6	71.2			4.969665	
8	2	6	72.4	1207		5.621446	
9	2	6	88.0	1989		5.722876	
10	3	6	50.5	1631	1207	6.752730	
11	2	6	94.1	1975		7.452195	
12	1	6	84.2			7.966540	
13	2	6	62.7	1227		8.653083	
14	2	6	80.6	1380		9.092120	
15	3	6	72.0	1312	1322	9.623412	
16	2	6	63.0	1288		10.666011	
17	2	6	89.8	1312		11.080274	

Bin5 Statistics 11

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	19	66.4			0.361875	1
1	2	19	58.6	1021		1.657639	
2	2	19	69.2	1628		1.947667	
3	2	19	56.8	1410		3.371094	
4	2	19	83.2	1564		3.747572	
5	2	19	62.5	1869		5.176470	
6	2	19	51.6	1951		5.568090	
7	1	19	80.8			7.212795	
8	2	19	93.8	1563		8.067508	
9	2	19	88.1	1230		8.453607	
10	2	19	56.3	1220		9.741008	
11	2	19	75.7	1296		10.912225	
12	2	19	52.2	1955		11.108868	

Bin5 Statistics 12

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	13	60.3	1965	1656	0.230359	1
1	2	13	82.7	1928		1.672111	
2	1	13	71.4			2.640001	
3	2	13	87.5	1142		3.213575	
4	1	13	74.8			4.059580	
5	2	13	65.7	1216		5.045941	
6	3	13	77.5	1989	1585	6.596232	
7	1	13	73.0			7.486554	
8	3	13	65.6	1123	1406	8.223544	
9	1	13	88.6			9.889373	
10	2	13	71.8	1331		10.720567	
11	1	13	62.8			11.314721	

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	55.5	1307		0.542749	1
1	2	19	56.9	1662		0.884183	
2	1	19	79.4			1.697447	
3	3	19	99.6	1876	1013	2.333741	
4	1	19	64.0			2.972966	
5	1	19	99.7			3.909772	
6	3	19	97.0	1386	1247	4.101727	
7	2	19	50.4	1900		5.222685	
8	1	19	83.7			5.853954	
9	1	19	56.3			6.110345	
10	3	19	68.3	1512	1090	6.998212	
11	2	19	59.2	1935		7.537042	
12	3	19	59.7	1760	1347	8.590941	
13	1	19	93.6			8.667161	
14	2	19	73.4	1926		9.603532	
15	1	19	77.3			10.174065	
16	2	19	90.9	1448		11.061813	
17	2	19	62.4	1315		11.693947	

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	8	54.9	1551		0.530170	1
1	2	8	69.4	1851		1.167487	
2	2	8	51.2	1272		3.267606	
3	3	8	80.0	1974	1703	3.430401	
4	1	8	71.9			5.365039	
5	1	8	72.7			6.065379	
6	2	8	52.1	1963		7.381367	
7	2	8	89.7	1671		8.428371	
8	3	8	74.3	1918	1975	9.177680	
9	2	8	50.9	1520		9.895895	
10	2	8	74.1	1829		11.143835	
0	2	8	54.9	1551		0.530170	

Bin5 Statistics 15

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	14	88.1	1478		0.625006	1
1	3	14	88.5	1559	1025	1.612179	
2	3	14	64.3	1773	1823	3.296464	
3	2	14	66.5	1481		3.765943	
4	2	14	72.5	1204		5.261139	
5	1	14	88.9			6.468767	
6	2	14	95.8	1804		8.088177	
7	1	14	70.4			9.203538	
8	2	14	51.0	1934		10.742821	
9	2	14	64.0	1767		11.972746	

Bin5 Statistics 16

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	19	96.3			0.252327	1
1	2	19	75.0	1924		1.070925	
2	2	19	65.9	1061		1.866861	
3	1	19	62.6			2.239164	
4	2	19	98.0	1868		3.344560	
5	2	19	67.6	1256		3.682183	
6	1	19	62.8			4.803274	
7	2	19	73.1	1144		5.205206	
8	2	19	99.6	1592		5.769667	
9	2	19	96.0	1132		6.792958	
10	1	19	82.5			7.280724	
11	3	19	82.2	1939	1305	7.814921	
12	3	19	70.7	1452	1075	8.894561	
13	1	19	83.2			9.467959	
14	3	19	59.1	1158	1385	10.186599	

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	88.6	1111		0.233733	1
1	2	9	65.2	1687		0.720440	
2	3	9	57.2	1308	1253	2.077883	
3	2	9	66.6	1594		2.745224	
4	2	9	52.4	1593		3.095215	
5	3	9	98.1	1922	1749	4.090239	
6	3	9	92.4	1687	1989	4.296260	
7	3	9	79.9	1882	1706	5.176710	
8	2	9	67.0	1924		6.192518	
9	3	9	88.6	1476	1874	6.927387	
10	2	9	58.5	1212		7.461699	
11	2	9	98.7	1661		8.237512	
12	2	9	76.2	1142		8.970961	
13	1	9	63.8			9.426975	
14	1	9	79.1			10.216718	
15	2	9	89.7	1158		11.139627	
16	2	9	75.0	1424		11.645958	
0	2	9	88.6	1111		0.233733	
1	2	9	65.2	1687		0.720440	

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	6	55.7	1986		0.195706	1
1	2	6	50.9	1627		1.708714	
2	3	6	69.7	1839	1047	2.089184	
3	2	6	60.7	1529		3.876879	
4	3	6	75.5	1224	1297	4.576774	
5	2	6	95.9	1749		5.749666	
6	2	6	97.9	1165		6.804907	
7	2	6	93.6	1155		7.933263	
8	3	6	75.3	1327	1087	8.656085	
9	1	6	79.7			9.215328	
10	1	6	75.4			10.920805	
11	2	6	90.0	1230		11.137028	

Bin5 Statistics 19

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	18	79.3			0.812896	1
1	3	18	84.4	1903	1779	1.203856	
2	3	18	78.5	1626	1975	1.734271	
3	3	18	71.0	1198	1539	3.387049	
4	2	18	92.2	1122		4.001674	
5	3	18	73.1	1840	1890	4.459432	
6	3	18	63.7	1124	1077	5.232885	
7	3	18	67.8	1936	1859	6.590930	
8	1	18	80.2			7.273213	
9	1	18	97.1			8.090120	
10	3	18	87.5	1378	1196	9.264971	
11	3	18	75.4	1679	1013	10.063195	
12	2	18	59.0	1310		10.456629	
13	2	18	70.4	1357		11.774075	

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	15	57.4	1038		0.032533	1
1	2	15	55.5	1601		0.977669	
2	2	15	92.3	1974		2.235994	
3	3	15	50.4	1968	1626	3.587162	
4	2	15	68.1	1282		3.713151	
5	3	15	78.5	1365	1317	5.213296	
6	2	15	90.0	1904		6.201244	
7	3	15	72.4	1472	1693	6.593887	
8	1	15	50.9			7.973150	
9	1	15	61.0			8.983110	
10	2	15	50.1	1828		9.568855	
11	2	15	96.9	1742		10.597998	
12	2	15	84.3	1368		11.367393	

Bin5 Statistics 21

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	12	57.0			0.262264	1
1	1	12	70.2			0.822219	
2	1	12	95.6			1.565823	
3	2	12	94.3	1759		2.281033	
4	2	12	96.5	1222		2.694070	
5	2	12	82.2	1502		3.604759	
6	2	12	62.9	1731		4.515793	
7	1	12	80.2			4.902588	
8	1	12	92.6			5.782339	
9	3	12	66.4	1400	1990	6.159003	
10	2	12	96.4	1037		6.697389	
11	2	12	80.4	1509		7.657776	
12	1	12	74.4			8.285973	
13	3	12	77.8	1017	1843	8.750018	
14	2	12	60.9	1918		9.823974	
15	2	12	76.5	1842		10.174538	
16	3	12	60.6	1394	1176	11.075487	
17	2	12	72.4	1373		11.854640	

Bin5 Statistics 22

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	17	70.0			0.762433	1
1	2	17	56.4	1928		1.194868	
2	2	17	79.7	1173		2.511050	
3	3	17	61.4	1218	1321	3.565927	
4	3	17	88.0	1588	1048	4.516739	
5	2	17	59.6	1299		5.755979	
6	3	17	75.2	1769	1405	6.559563	
7	1	17	82.7			7.389151	
8	2	17	56.4	1785		8.810178	
9	2	17	95.1	1286		9.201047	
10	1	17	71.0			10.706799	
11	2	17	90.7	1738		11.142527	

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	53.3	1006		0.577617	1
1	2	11	72.0	1336		0.965290	
2	2	11	86.6	1106		1.909200	
3	2	11	87.6	1593		2.916547	
4	1	11	71.0			3.480289	
5	1	11	89.3			3.795784	
6	2	11	62.1	1292		5.165856	
7	3	11	88.8	1577	1974	5.968317	
8	3	11	92.5	1959	1293	6.466560	
9	2	11	82.5	1146		7.143107	
10	2	11	87.9	1520		7.814234	
11	2	11	75.3	1488		8.775444	
12	2	11	67.4	1663		9.045048	
13	2	11	58.0	1960		9.754844	
14	3	11	90.8	1930	1962	10.932705	
15	1	11	71.3			11.886745	

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	74.1	1305		0.681093	1
1	2	20	78.2	1520		0.933918	
2	3	20	95.8	1783	1398	1.628050	
3	2	20	96.4	1866		2.510172	
4	1	20	62.0			3.620247	
5	2	20	91.7	1856		4.735969	
6	2	20	95.8	1244		5.593521	
7	3	20	81.3	1606	1147	5.686425	
8	2	20	84.0	1899		7.159708	
9	1	20	89.7			7.936480	
10	2	20	82.0	1142		8.598349	
11	2	20	81.6	1827		9.406610	
12	2	20	86.9	1128		10.081225	
13	2	20	74.8	1061		10.503505	
14	1	20	75.8			11.525557	

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	11	53.3	1358		0.600529	1
1	1	11	59.8			1.665142	
2	3	11	68.6	1341	1285	3.512939	
3	3	11	64.5	1506	1705	4.840471	
4	2	11	89.9	1823		5.449014	
5	2	11	61.7	1093		7.034623	
6	2	11	79.7	1489		8.682451	
7	1	11	95.2			10.229716	
8	2	11	65.6	1257		11.973546	

Bin5 Statistics 26

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	13	74.1	1520		0.073590	1
1	2	13	53.1	1826		1.790385	
2	1	13	79.7			2.577227	
3	1	13	84.4			4.523402	
4	1	13	81.5			5.074418	
5	1	13	82.0			6.844943	
6	1	13	86.1			7.511290	
7	2	13	75.6	1475		8.657526	
8	2	13	52.8	1162		9.765535	
9	1	13	77.3			11.620931	

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	8	61.8	1454		0.516045	1
1	2	8	50.6	1102		1.288244	
2	1	8	65.9			1.666020	
3	2	8	77.0	1980		2.982089	
4	2	8	58.6	1574		3.447628	
5	1	8	79.3			4.125056	
6	1	8	55.0			4.682801	
7	2	8	53.7	1442		5.347163	
8	3	8	69.2	1017	1048	6.572125	
9	2	8	50.8	1470		6.818731	
10	2	8	82.7	1552		8.088169	
11	2	8	66.5	1096		8.769439	
12	3	8	90.5	1175	1065	9.121214	
13	3	8	75.7	1265	1958	9.755338	
14	1	8	90.7			10.585981	
15	3	8	97.8	1399	1547	11.762437	

Bin5 Statistics 28

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	9	82.5	1677		0.275278	1
1	2	9	95.8	1861		0.957932	
2	2	9	96.9	1889		1.675946	
3	3	9	90.6	1389	1408	2.136365	
4	2	9	79.8	1495		2.693218	
5	3	9	85.5	1559	1347	3.602696	
6	3	9	94.6	1011	1542	4.189668	
7	3	9	98.6	1722	1248	4.796495	
8	2	9	56.9	1282		5.919987	
9	2	9	86.0	1113		6.635078	
10	2	9	79.0	1781		7.217594	
11	3	9	81.2	1444	1672	7.918895	
12	3	9	61.7	1607	1837	8.259807	
13	3	9	97.4	1491	1712	9.169385	
14	2	9	77.1	1121		9.847963	
15	3	9	87.4	1767	1402	10.025743	
16	2	9	80.0	1558		11.185190	
17	3	9	70.1	1428	1763	11.962851	

Bin5 Statistics 29

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	13	60.4	1084		0.074953	1
1	2	13	88.1	1261		1.099761	
2	3	13	76.0	1112	1168	1.663697	
3	2	13	99.5	1681		2.416917	
4	1	13	51.0			2.728575	
5	3	13	59.4	1589	1765	3.721154	
6	1	13	80.0			4.541501	
7	3	13	53.0	1544	1994	4.943882	
8	1	13	65.1			5.375567	
9	1	13	55.2			6.405327	
10	3	13	89.1	1047	1345	7.143989	
11	1	13	87.9			7.673168	
12	1	13	70.3			8.103668	
13	2	13	50.5	1309		9.304089	
14	2	13	85.5	1410		9.557029	
15	2	13	53.0	1026		10.249155	
16	3	13	58.7	1280	1953	10.934616	
17	2	13	69.0	1877		11.994455	

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	6	71.8			0.278003	1
1	2	6	58.6	1107		1.044449	
2	2	6	89.7	1317		2.453710	
3	1	6	81.3			2.909127	
4	3	6	56.5	1243	1898	4.170053	
5	2	6	57.5	1401		4.968753	
6	1	6	78.6			5.878889	
7	1	6	93.0			6.772662	
8	2	6	72.3	1488		7.234746	
9	2	6	65.2	1475		7.903098	
10	3	6	95.2	1080	1442	8.818847	
11	2	6	57.6	1288		9.931425	
12	3	6	50.5	1285	1487	10.762473	
13	2	6	77.7	1609		11.739930	

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	5570.0	9	1.0	333	1	5428.0, 5559.0, 5675.0, 5553.0, 5628.0, 5614.0, 5347.0, 5341.0, 5687.0, 5592.0, 5677.0, 5517.0, 5343.0, 5299.0, 5336.0, 5484.0, 5411.0, 5703.0, 5477.0, 5494.0, 5710.0, 5695.0, 5387.0, 5493.0, 5538.0, 5676.0, 5651.0, 5253.0, 5510.0, 5540.0, 5589.0, 5255.0, 5601.0, 5384.0, 5266.0, 5270.0, 5550.0, 5458.0, 5620.0, 5681.0, 5423.0, 5504.0, 5716.0, 5525.0, 5646.0, 5291.0, 5547.0, 5316.0, 5400.0, 5329.0, 5554.0, 5526.0, 5267.0, 5334.0, 5678.0, 5498.0, 5539.0, 5569.0, 5644.0, 5656.0, 5372.0, 5546.0, 5549.0, 5287.0, 5606.0, 5572.0, 5335.0, 5453.0, 5666.0, 5633.0, 5388.0, 5327.0, 5378.0, 5281.0, 5358.0, 5598.0, 5608.0, 5433.0, 5294.0, 5421.0, 5360.0, 5350.0, 5367.0, 5618.0, 5706.0, 5649.0, 5305.0, 5640.0, 5609.0, 5643.0, 5435.0, 5295.0, 5349.0, 5465.0, 5479.0, 5602.0, 5634.0, 5417.0, 5293.0, 5369.0 (number of hits: 38)
2	5570.0	9	1.0	333	1	5284.0, 5435.0, 5330.0, 5371.0, 5647.0, 5492.0, 5277.0, 5292.0, 5618.0, 5531.0, 5458.0, 5624.0, 5685.0, 5582.0, 5465.0, 5602.0, 5579.0, 5557.0, 5558.0, 5693.0, 5338.0, 5570.0, 5357.0, 5257.0, 5551.0, 5715.0, 5440.0, 5632.0, 5380.0, 5569.0, 5625.0, 5544.0, 5573.0, 5468.0, 5421.0, 5271.0, 5391.0, 5318.0, 5571.0, 5545.0, 5705.0, 5311.0, 5376.0, 5543.0, 5702.0, 5603.0, 5527.0, 5496.0, 5549.0, 5641.0, 5562.0, 5300.0, 5703.0, 5260.0, 5566.0, 5276.0, 5327.0, 5668.0, 5375.0, 5536.0, 5474.0, 5447.0, 5619.0, 5432.0, 5434.0, 5288.0, 5651.0, 5495.0, 5594.0, 5655.0, 5568.0, 5328.0, 5460.0, 5712.0, 5524.0, 5626.0, 5596.0, 5667.0, 5671.0, 5588.0, 5485.0, 5519.0, 5535.0, 5433.0, 5305.0, 5555.0, 5443.0, 5637.0, 5261.0, 5441.0, 5423.0, 5512.0, 5303.0, 5542.0, 5428.0, 5589.0, 5503.0, 5308.0, 5614.0, 5607.0 (number of hits: 46)
3	5570.0	9	1.0	333	1	5317.0, 5685.0, 5517.0, 5721.0, 5610.0, 5443.0, 5588.0, 5265.0, 5276.0, 5461.0, 5641.0, 5698.0, 5255.0, 5387.0, 5577.0, 5515.0, 5542.0, 5488.0, 5722.0, 5496.0, 5382.0, 5407.0, 5680.0, 5373.0, 5376.0, 5335.0, 5332.0, 5621.0, 5550.0, 5637.0, 5381.0, 5415.0, 5378.0, 5323.0, 5312.0, 5658.0, 5673.0, 5457.0, 5599.0, 5262.0, 5393.0, 5394.0, 5389.0, 5660.0, 5575.0, 5363.0, 5693.0, 5318.0, 5687.0, 5705.0, 5435.0, 5279.0, 5253.0, 5321.0, 5569.0, 5490.0, 5445.0, 5647.0, 5545.0, 5338.0, 5481.0, 5432.0, 5384.0, 5260.0, 5581.0, 5586.0, 5611.0, 5643.0, 5650.0, 5552.0, 5314.0, 5283.0, 5450.0, 5261.0, 5701.0, 5580.0, 5423.0, 5408.0, 5362.0, 5388.0, 5480.0, 5360.0, 5612.0, 5635.0, 5699.0, 5661.0, 5374.0, 5560.0, 5655.0, 5446.0, 5596.0, 5574.0, 5274.0, 5367.0, 5344.0, 5290.0, 5278.0, 5626.0, 5346.0, 5695.0 (number of hits: 28)
4	5570.0	9	1.0	333	1	5485.0, 5634.0, 5448.0, 5422.0, 5570.0, 5653.0, 5412.0, 5459.0, 5699.0, 5384.0, 5442.0, 5356.0, 5703.0, 5444.0, 5520.0, 5522.0, 5331.0, 5333.0, 5454.0, 5441.0, 5601.0, 5704.0, 5695.0, 5645.0, 5588.0, 5473.0, 5439.0, 5494.0, 5628.0, 5435.0, 5683.0, 5467.0, 5401.0, 5470.0, 5710.0, 5719.0, 5446.0, 5542.0, 5264.0, 5673.0, 5277.0, 5324.0, 5508.0, 5363.0, 5337.0, 5591.0, 5497.0, 5515.0, 5562.0, 5627.0, 5358.0, 5530.0, 5283.0, 5546.0, 5270.0, 5495.0, 5524.0, 5537.0, 5354.0, 5516.0, 5437.0, 5256.0, 5294.0, 5453.0, 5392.0, 5655.0, 5598.0, 5541.0, 5429.0, 5263.0, 5573.0, 5698.0, 5600.0, 5478.0, 5457.0, 5625.0, 5348.0, 5489.0, 5670.0, 5273.0, 5664.0, 5477.0, 5445.0, 5696.0, 5697.0, 5487.0, 5575.0, 5370.0, 5531.0, 5606.0, 5662.0, 5269.0, 5347.0, 5589.0, 5259.0, 5301.0, 5675.0, 5594.0, 5350.0, 5689.0 (number of hits: 32)
5	5570.0	9	1.0	333	1	5272.0, 5472.0, 5301.0, 5427.0, 5665.0, 5449.0, 5696.0, 5559.0, 5690.0, 5705.0, 5617.0, 5463.0, 5491.0, 5496.0, 5615.0, 5591.0, 5369.0, 5578.0, 5508.0, 5641.0, 5722.0, 5271.0, 5505.0, 5356.0,

						5529.0, 5453.0, 5652.0, 5266.0, 5507.0, 5710.0, 5459.0, 5565.0, 5543.0, 5539.0, 5435.0, 5550.0, 5630.0, 5257.0, 5692.0, 5538.0, 5519.0, 5606.0, 5490.0, 5583.0, 5636.0, 5715.0, 5468.0, 5610.0, 5659.0, 5414.0, 5471.0, 5328.0, 5497.0, 5264.0, 5569.0, 5280.0, 5618.0, 5622.0, 5269.0, 5656.0, 5704.0, 5287.0, 5465.0, 5595.0, 5523.0, 5590.0, 5393.0, 5698.0, 5548.0, 5580.0, 5311.0, 5607.0, 5520.0, 5290.0, 5481.0, 5283.0, 5345.0, 5379.0, 5382.0, 5700.0, 5575.0, 5718.0, 5318.0, 5268.0, 5348.0, 5326.0, 5473.0, 5461.0, 5334.0, 5359.0, 5434.0, 5545.0, 5605.0, 5514.0, 5310.0, 5702.0, 5682.0, 5711.0, 5592.0, 5325.0 (number of hits: 38)
6	5570.0	9	1.0	333	1	5274.0, 5453.0, 5658.0, 5303.0, 5251.0, 5285.0, 5522.0, 5268.0, 5681.0, 5506.0, 5664.0, 5629.0, 5468.0, 5689.0, 5686.0, 5550.0, 5722.0, 5534.0, 5627.0, 5514.0, 5671.0, 5600.0, 5257.0, 5594.0, 5318.0, 5512.0, 5438.0, 5445.0, 5564.0, 5458.0, 5360.0, 5619.0, 5637.0, 5256.0, 5533.0, 5598.0, 5352.0, 5715.0, 5355.0, 5572.0, 5646.0, 5578.0, 5560.0, 5328.0, 5581.0, 5448.0, 5269.0, 5265.0, 5272.0, 5548.0, 5426.0, 5264.0, 5353.0, 5327.0, 5672.0, 5478.0, 5559.0, 5591.0, 5309.0, 5490.0, 5668.0, 5397.0, 5466.0, 5693.0, 5499.0, 5292.0, 5660.0, 5341.0, 5337.0, 5638.0, 5278.0, 5529.0, 5471.0, 5443.0, 5501.0, 5454.0, 5577.0, 5663.0, 5297.0, 5532.0, 5551.0, 5463.0, 5659.0, 5523.0, 5536.0, 5700.0, 5470.0, 5423.0, 5288.0, 5587.0, 5418.0, 5618.0, 5304.0, 5373.0, 5273.0, 5437.0, 5701.0, 5315.0, 5625.0, 5372.0 (number of hits: 35)
7	5570.0	9	1.0	333	1	5643.0, 5332.0, 5370.0, 5618.0, 5464.0, 5466.0, 5591.0, 5390.0, 5425.0, 5301.0, 5710.0, 5435.0, 5718.0, 5593.0, 5554.0, 5307.0, 5602.0, 5525.0, 5365.0, 5395.0, 5335.0, 5660.0, 5347.0, 5357.0, 5276.0, 5608.0, 5408.0, 5481.0, 5378.0, 5534.0, 5717.0, 5455.0, 5253.0, 5292.0, 5348.0, 5595.0, 5583.0, 5586.0, 5275.0, 5708.0, 5646.0, 5529.0, 5284.0, 5549.0, 5344.0, 5532.0, 5712.0, 5371.0, 5603.0, 5340.0, 5475.0, 5672.0, 5291.0, 5678.0, 5617.0, 5575.0, 5684.0, 5703.0, 5663.0, 5363.0, 5544.0, 5281.0, 5353.0, 5511.0, 5561.0, 5272.0, 5607.0, 5448.0, 5659.0, 5373.0, 5358.0, 5715.0, 5693.0, 5327.0, 5507.0, 5701.0, 5413.0, 5719.0, 5711.0, 5688.0, 5679.0, 5263.0, 5356.0, 5397.0, 5447.0, 5542.0, 5650.0, 5485.0, 5654.0, 5546.0, 5355.0, 5604.0, 5270.0, 5634.0, 5322.0, 5565.0, 5463.0, 5401.0, 5300.0, 5714.0 (number of hits: 29)
8	5570.0	9	1.0	333	1	5296.0, 5722.0, 5389.0, 5365.0, 5544.0, 5641.0, 5355.0, 5384.0, 5252.0, 5312.0, 5388.0, 5524.0, 5391.0, 5636.0, 5425.0, 5596.0, 5642.0, 5424.0, 5676.0, 5338.0, 5378.0, 5390.0, 5632.0, 5459.0, 5428.0, 5646.0, 5416.0, 5574.0, 5561.0, 5556.0, 5529.0, 5263.0, 5654.0, 5711.0, 5444.0, 5707.0, 5287.0, 5490.0, 5343.0, 5253.0, 5543.0, 5693.0, 5501.0, 5599.0, 5487.0, 5551.0, 5538.0, 5306.0, 5573.0, 5460.0, 5554.0, 5358.0, 5454.0, 5342.0, 5367.0, 5679.0, 5664.0, 5380.0, 5262.0, 5595.0, 5673.0, 5657.0, 5442.0, 5612.0, 5407.0, 5658.0, 5688.0, 5488.0, 5575.0, 5348.0, 5710.0, 5326.0, 5507.0, 5406.0, 5706.0, 5291.0, 5628.0, 5350.0, 5503.0, 5533.0, 5638.0, 5619.0, 5581.0, 5559.0, 5420.0, 5505.0, 5294.0, 5553.0, 5402.0, 5481.0, 5489.0, 5504.0, 5499.0, 5439.0, 5446.0, 5661.0, 5511.0, 5677.0, 5578.0, 5414.0 (number of hits: 36)
9	5570.0	9	1.0	333	1	5596.0, 5476.0, 5610.0, 5642.0, 5280.0, 5450.0, 5402.0, 5542.0, 5302.0, 5444.0, 5653.0, 5282.0, 5291.0, 5698.0, 5608.0, 5381.0, 5366.0, 5417.0, 5524.0, 5368.0, 5639.0, 5699.0, 5409.0, 5537.0, 5299.0, 5567.0, 5422.0, 5288.0, 5272.0, 5555.0, 5481.0, 5697.0, 5374.0, 5674.0, 5285.0, 5628.0, 5585.0, 5715.0, 5570.0, 5277.0, 5518.0, 5427.0, 5412.0, 5595.0, 5544.0, 5362.0, 5719.0, 5301.0, 5260.0, 5617.0, 5463.0, 5652.0, 5320.0, 5598.0, 5308.0, 5667.0, 5485.0, 5376.0, 5495.0, 5643.0, 5714.0, 5505.0, 5619.0, 5318.0, 5531.0, 5287.0, 5577.0, 5359.0, 5689.0, 5664.0, 5419.0, 5637.0, 5391.0, 5369.0, 5448.0, 5325.0, 5685.0, 5331.0, 5615.0, 5346.0, 5397.0, 5449.0, 5624.0, 5680.0, 5553.0, 5522.0, 5379.0, 5447.0, 5723.0, 5563.0, 5441.0, 5613.0, 5693.0, 5309.0, 5632.0, 5713.0,

						5646.0, 5487.0, 5644.0, 5478.0 (number of hits: 34)
10	5570.0	9	1.0	333	1	5280.0, 5504.0, 5264.0, 5722.0, 5253.0, 5524.0, 5500.0, 5643.0, 5475.0, 5262.0, 5593.0, 5323.0, 5423.0, 5558.0, 5646.0, 5543.0, 5509.0, 5618.0, 5258.0, 5685.0, 5639.0, 5453.0, 5673.0, 5254.0, 5656.0, 5687.0, 5371.0, 5594.0, 5397.0, 5318.0, 5718.0, 5674.0, 5576.0, 5595.0, 5537.0, 5411.0, 5502.0, 5364.0, 5480.0, 5708.0, 5452.0, 5585.0, 5449.0, 5333.0, 5651.0, 5535.0, 5572.0, 5518.0, 5255.0, 5701.0, 5316.0, 5314.0, 5503.0, 5281.0, 5441.0, 5567.0, 5400.0, 5429.0, 5609.0, 5541.0, 5665.0, 5430.0, 5658.0, 5561.0, 5306.0, 5443.0, 5664.0, 5311.0, 5488.0, 5421.0, 5260.0, 5401.0, 5712.0, 5370.0, 5589.0, 5427.0, 5650.0, 5581.0, 5563.0, 5446.0, 5277.0, 5583.0, 5315.0, 5464.0, 5611.0, 5346.0, 5398.0, 5415.0, 5519.0, 5511.0, 5625.0, 5694.0, 5321.0, 5374.0, 5322.0, 5278.0, 5458.0, 5420.0, 5626.0, 5379.0 (number of hits: 34)
11	5570.0	9	1.0	333	1	5614.0, 5507.0, 5302.0, 5346.0, 5572.0, 5402.0, 5473.0, 5412.0, 5527.0, 5456.0, 5568.0, 5296.0, 5647.0, 5558.0, 5464.0, 5597.0, 5277.0, 5398.0, 5559.0, 5602.0, 5453.0, 5410.0, 5472.0, 5306.0, 5611.0, 5486.0, 5493.0, 5618.0, 5623.0, 5634.0, 5696.0, 5690.0, 5545.0, 5374.0, 5461.0, 5497.0, 5367.0, 5304.0, 5275.0, 5432.0, 5436.0, 5581.0, 5476.0, 5356.0, 5517.0, 5562.0, 5278.0, 5442.0, 5516.0, 5510.0, 5564.0, 5646.0, 5333.0, 5285.0, 5571.0, 5417.0, 5349.0, 5677.0, 5403.0, 5615.0, 5253.0, 5454.0, 5693.0, 5721.0, 5323.0, 5661.0, 5351.0, 5290.0, 5298.0, 5703.0, 5429.0, 5301.0, 5434.0, 5609.0, 5709.0, 5557.0, 5723.0, 5660.0, 5659.0, 5502.0, 5582.0, 5299.0, 5580.0, 5519.0, 5573.0, 5492.0, 5326.0, 5668.0, 5551.0, 5384.0, 5641.0, 5397.0, 5469.0, 5406.0, 5538.0, 5293.0, 5256.0, 5544.0, 5478.0, 5633.0 (number of hits: 39)
12	5570.0	9	1.0	333	1	5661.0, 5270.0, 5584.0, 5421.0, 5283.0, 5400.0, 5381.0, 5687.0, 5308.0, 5382.0, 5355.0, 5619.0, 5364.0, 5359.0, 5287.0, 5452.0, 5537.0, 5444.0, 5705.0, 5380.0, 5477.0, 5676.0, 5722.0, 5571.0, 5418.0, 5614.0, 5696.0, 5481.0, 5465.0, 5590.0, 5416.0, 5282.0, 5446.0, 5714.0, 5673.0, 5467.0, 5517.0, 5330.0, 5567.0, 5259.0, 5533.0, 5563.0, 5541.0, 5422.0, 5443.0, 5601.0, 5387.0, 5677.0, 5638.0, 5596.0, 5572.0, 5693.0, 5318.0, 5626.0, 5475.0, 5593.0, 5588.0, 5485.0, 5620.0, 5469.0, 5543.0, 5450.0, 5692.0, 5285.0, 5257.0, 5327.0, 5675.0, 5297.0, 5578.0, 5316.0, 5653.0, 5417.0, 5602.0, 5622.0, 5276.0, 5524.0, 5709.0, 5339.0, 5482.0, 5717.0, 5489.0, 5343.0, 5488.0, 5654.0, 5556.0, 5515.0, 5288.0, 5331.0, 5398.0, 5723.0, 5529.0, 5342.0, 5386.0, 5644.0, 5295.0, 5595.0, 5314.0, 5463.0, 5649.0, 5420.0 (number of hits: 29)
13	5570.0	9	1.0	333	1	5530.0, 5556.0, 5277.0, 5672.0, 5292.0, 5709.0, 5666.0, 5602.0, 5264.0, 5439.0, 5643.0, 5435.0, 5340.0, 5259.0, 5532.0, 5443.0, 5653.0, 5708.0, 5508.0, 5594.0, 5302.0, 5718.0, 5448.0, 5307.0, 5578.0, 5503.0, 5568.0, 5345.0, 5417.0, 5705.0, 5479.0, 5315.0, 5618.0, 5669.0, 5333.0, 5659.0, 5582.0, 5514.0, 5617.0, 5395.0, 5563.0, 5272.0, 5636.0, 5679.0, 5421.0, 5583.0, 5337.0, 5510.0, 5714.0, 5565.0, 5655.0, 5365.0, 5723.0, 5364.0, 5367.0, 5445.0, 5410.0, 5533.0, 5414.0, 5534.0, 5665.0, 5387.0, 5349.0, 5640.0, 5486.0, 5434.0, 5699.0, 5330.0, 5326.0, 5717.0, 5507.0, 5637.0, 5469.0, 5674.0, 5484.0, 5406.0, 5411.0, 5692.0, 5319.0, 5300.0, 5343.0, 5263.0, 5306.0, 5541.0, 5472.0, 5422.0, 5412.0, 5405.0, 5521.0, 5558.0, 5691.0, 5611.0, 5620.0, 5696.0, 5320.0, 5427.0, 5456.0, 5492.0, 5254.0, 5318.0 (number of hits: 30)
14	5570.0	9	1.0	333	1	5343.0, 5424.0, 5498.0, 5572.0, 5288.0, 5423.0, 5379.0, 5272.0, 5531.0, 5649.0, 5530.0, 5482.0, 5683.0, 5286.0, 5271.0, 5324.0, 5680.0, 5632.0, 5397.0, 5344.0, 5517.0, 5270.0, 5578.0, 5448.0, 5640.0, 5590.0, 5313.0, 5452.0, 5301.0, 5369.0, 5601.0, 5338.0, 5367.0, 5501.0, 5556.0, 5399.0, 5516.0, 5481.0, 5553.0, 5269.0, 5494.0, 5306.0, 5636.0, 5688.0, 5617.0, 5581.0, 5388.0, 5321.0, 5274.0, 5499.0, 5511.0, 5427.0, 5456.0, 5698.0, 5551.0, 5377.0, 5461.0, 5603.0, 5445.0, 5604.0, 5349.0, 5287.0, 5358.0, 5723.0,

						5623.0, 5446.0, 5366.0, 5483.0, 5254.0, 5535.0, 5584.0, 5715.0, 5533.0, 5682.0, 5719.0, 5492.0, 5450.0, 5629.0, 5401.0, 5293.0, 5666.0, 5295.0, 5355.0, 5326.0, 5686.0, 5484.0, 5314.0, 5308.0, 5385.0, 5624.0, 5702.0, 5256.0, 5643.0, 5465.0, 5518.0, 5627.0, 5540.0, 5332.0, 5661.0, 5468.0 (number of hits: 34)
15	5570.0	9	1.0	333	1	5451.0, 5276.0, 5654.0, 5426.0, 5550.0, 5664.0, 5699.0, 5269.0, 5409.0, 5327.0, 5455.0, 5411.0, 5285.0, 5719.0, 5267.0, 5708.0, 5375.0, 5629.0, 5519.0, 5493.0, 5255.0, 5685.0, 5492.0, 5361.0, 5342.0, 5700.0, 5566.0, 5580.0, 5655.0, 5259.0, 5392.0, 5586.0, 5461.0, 5542.0, 5476.0, 5628.0, 5400.0, 5329.0, 5358.0, 5610.0, 5579.0, 5625.0, 5271.0, 5403.0, 5591.0, 5539.0, 5294.0, 5639.0, 5668.0, 5442.0, 5471.0, 5396.0, 5364.0, 5545.0, 5485.0, 5567.0, 5599.0, 5368.0, 5516.0, 5531.0, 5717.0, 5568.0, 5366.0, 5656.0, 5352.0, 5609.0, 5353.0, 5266.0, 5616.0, 5398.0, 5393.0, 5549.0, 5337.0, 5348.0, 5536.0, 5503.0, 5715.0, 5525.0, 5701.0, 5440.0, 5314.0, 5326.0, 5602.0, 5405.0, 5410.0, 5460.0, 5453.0, 5469.0, 5650.0, 5308.0, 5603.0, 5504.0, 5527.0, 5480.0, 5397.0, 5661.0, 5350.0, 5277.0, 5324.0, 5347.0 (number of hits: 32)
16	5570.0	9	1.0	333	1	5677.0, 5589.0, 5359.0, 5453.0, 5257.0, 5671.0, 5590.0, 5396.0, 5314.0, 5348.0, 5656.0, 5367.0, 5280.0, 5509.0, 5615.0, 5633.0, 5522.0, 5309.0, 5602.0, 5569.0, 5467.0, 5452.0, 5524.0, 5606.0, 5617.0, 5719.0, 5478.0, 5549.0, 5264.0, 5368.0, 5337.0, 5592.0, 5720.0, 5605.0, 5448.0, 5630.0, 5641.0, 5476.0, 5411.0, 5409.0, 5555.0, 5689.0, 5632.0, 5721.0, 5259.0, 5423.0, 5626.0, 5702.0, 5714.0, 5387.0, 5687.0, 5519.0, 5355.0, 5492.0, 5561.0, 5688.0, 5316.0, 5560.0, 5577.0, 5363.0, 5251.0, 5375.0, 5433.0, 5609.0, 5624.0, 5350.0, 5315.0, 5461.0, 5343.0, 5473.0, 5427.0, 5437.0, 5322.0, 5723.0, 5682.0, 5712.0, 5499.0, 5320.0, 5514.0, 5495.0, 5331.0, 5262.0, 5329.0, 5462.0, 5614.0, 5603.0, 5517.0, 5397.0, 5652.0, 5364.0, 5582.0, 5700.0, 5404.0, 5489.0, 5520.0, 5471.0, 5573.0, 5458.0, 5699.0, 5326.0 (number of hits: 35)
17	5570.0	9	1.0	333	1	5420.0, 5465.0, 5344.0, 5372.0, 5540.0, 5553.0, 5630.0, 5723.0, 5316.0, 5516.0, 5308.0, 5269.0, 5476.0, 5260.0, 5268.0, 5301.0, 5666.0, 5421.0, 5579.0, 5632.0, 5557.0, 5456.0, 5359.0, 5653.0, 5304.0, 5675.0, 5697.0, 5429.0, 5600.0, 5606.0, 5435.0, 5507.0, 5273.0, 5551.0, 5672.0, 5285.0, 5690.0, 5274.0, 5442.0, 5257.0, 5490.0, 5544.0, 5388.0, 5286.0, 5311.0, 5466.0, 5661.0, 5510.0, 5410.0, 5452.0, 5705.0, 5357.0, 5349.0, 5432.0, 5439.0, 5267.0, 5500.0, 5258.0, 5319.0, 5556.0, 5621.0, 5334.0, 5567.0, 5497.0, 5657.0, 5699.0, 5461.0, 5297.0, 5671.0, 5615.0, 5279.0, 5424.0, 5561.0, 5314.0, 5582.0, 5698.0, 5505.0, 5302.0, 5348.0, 5610.0, 5667.0, 5417.0, 5501.0, 5641.0, 5524.0, 5321.0, 5577.0, 5338.0, 5324.0, 5370.0, 5369.0, 5578.0, 5701.0, 5538.0, 5272.0, 5447.0, 5608.0, 5547.0, 5413.0, 5322.0 (number of hits: 31)
18	5570.0	9	1.0	333	1	5684.0, 5494.0, 5605.0, 5376.0, 5533.0, 5294.0, 5701.0, 5531.0, 5441.0, 5288.0, 5613.0, 5296.0, 5359.0, 5400.0, 5342.0, 5481.0, 5366.0, 5486.0, 5501.0, 5525.0, 5412.0, 5474.0, 5351.0, 5372.0, 5637.0, 5371.0, 5468.0, 5565.0, 5520.0, 5282.0, 5458.0, 5394.0, 5614.0, 5514.0, 5585.0, 5556.0, 5633.0, 5664.0, 5314.0, 5581.0, 5484.0, 5631.0, 5598.0, 5663.0, 5615.0, 5301.0, 5510.0, 5373.0, 5346.0, 5350.0, 5390.0, 5317.0, 5425.0, 5499.0, 5303.0, 5551.0, 5387.0, 5710.0, 5636.0, 5419.0, 5465.0, 5388.0, 5554.0, 5408.0, 5599.0, 5411.0, 5680.0, 5316.0, 5610.0, 5271.0, 5517.0, 5694.0, 5407.0, 5434.0, 5328.0, 5564.0, 5298.0, 5708.0, 5500.0, 5281.0, 5361.0, 5521.0, 5502.0, 5577.0, 5448.0, 5270.0, 5487.0, 5707.0, 5515.0, 5711.0, 5451.0, 5391.0, 5548.0, 5367.0, 5297.0, 5403.0, 5253.0, 5326.0, 5261.0, 5343.0 (number of hits: 34)
19	5570.0	9	1.0	333	1	5373.0, 5624.0, 5358.0, 5329.0, 5455.0, 5506.0, 5386.0, 5437.0, 5596.0, 5547.0, 5696.0, 5430.0, 5647.0, 5521.0, 5559.0, 5477.0, 5447.0, 5319.0, 5352.0, 5601.0, 5292.0, 5714.0, 5258.0, 5556.0, 5385.0, 5269.0, 5448.0, 5251.0, 5261.0, 5660.0, 5382.0, 5670.0,

						5323.0, 5513.0, 5378.0, 5289.0, 5399.0, 5505.0, 5298.0, 5587.0, 5496.0, 5569.0, 5364.0, 5459.0, 5688.0, 5607.0, 5539.0, 5349.0, 5609.0, 5567.0, 5416.0, 5489.0, 5303.0, 5646.0, 5677.0, 5438.0, 5685.0, 5522.0, 5461.0, 5396.0, 5288.0, 5284.0, 5498.0, 5580.0, 5479.0, 5414.0, 5275.0, 5692.0, 5462.0, 5619.0, 5431.0, 5526.0, 5302.0, 5620.0, 5671.0, 5473.0, 5631.0, 5441.0, 5446.0, 5468.0, 5555.0, 5464.0, 5629.0, 5433.0, 5554.0, 5491.0, 5621.0, 5651.0, 5617.0, 5585.0, 5420.0, 5457.0, 5387.0, 5380.0, 5530.0, 5694.0, 5436.0, 5576.0, 5517.0, 5583.0 (number of hits: 36)
20	5570.0	9	1.0	333	1	5310.0, 5362.0, 5622.0, 5704.0, 5349.0, 5620.0, 5261.0, 5638.0, 5388.0, 5469.0, 5266.0, 5482.0, 5394.0, 5458.0, 5260.0, 5274.0, 5305.0, 5257.0, 5383.0, 5501.0, 5604.0, 5483.0, 5663.0, 5432.0, 5518.0, 5475.0, 5393.0, 5644.0, 5716.0, 5499.0, 5637.0, 5439.0, 5452.0, 5592.0, 5424.0, 5562.0, 5565.0, 5416.0, 5399.0, 5667.0, 5422.0, 5584.0, 5589.0, 5455.0, 5488.0, 5387.0, 5444.0, 5438.0, 5291.0, 5696.0, 5502.0, 5423.0, 5392.0, 5686.0, 5700.0, 5465.0, 5270.0, 5510.0, 5433.0, 5478.0, 5600.0, 5400.0, 5427.0, 5635.0, 5443.0, 5539.0, 5714.0, 5559.0, 5283.0, 5406.0, 5536.0, 5447.0, 5541.0, 5418.0, 5571.0, 5632.0, 5649.0, 5352.0, 5307.0, 5582.0, 5634.0, 5564.0, 5500.0, 5661.0, 5492.0, 5445.0, 5308.0, 5395.0, 5713.0, 5415.0, 5643.0, 5288.0, 5506.0, 5286.0, 5299.0, 5703.0, 5586.0, 5665.0, 5532.0, 5556.0 (number of hits: 34)
21	5570.0	9	1.0	333	1	5627.0, 5539.0, 5439.0, 5378.0, 5414.0, 5296.0, 5547.0, 5325.0, 5351.0, 5344.0, 5546.0, 5381.0, 5620.0, 5534.0, 5369.0, 5273.0, 5639.0, 5633.0, 5420.0, 5278.0, 5332.0, 5662.0, 5453.0, 5447.0, 5555.0, 5653.0, 5626.0, 5308.0, 5399.0, 5652.0, 5357.0, 5572.0, 5718.0, 5711.0, 5346.0, 5677.0, 5480.0, 5632.0, 5481.0, 5526.0, 5272.0, 5517.0, 5304.0, 5591.0, 5421.0, 5367.0, 5570.0, 5611.0, 5422.0, 5394.0, 5562.0, 5435.0, 5643.0, 5571.0, 5551.0, 5509.0, 5427.0, 5575.0, 5354.0, 5342.0, 5395.0, 5400.0, 5360.0, 5716.0, 5580.0, 5323.0, 5253.0, 5277.0, 5430.0, 5686.0, 5649.0, 5424.0, 5667.0, 5407.0, 5638.0, 5262.0, 5651.0, 5584.0, 5496.0, 5691.0, 5668.0, 5345.0, 5607.0, 5641.0, 5713.0, 5605.0, 5531.0, 5687.0, 5404.0, 5490.0, 5443.0, 5701.0, 5437.0, 5266.0, 5623.0, 5375.0, 5408.0, 5590.0, 5650.0, 5301.0 (number of hits: 33)
22	5570.0	9	1.0	333	1	5333.0, 5291.0, 5498.0, 5570.0, 5297.0, 5372.0, 5342.0, 5686.0, 5672.0, 5607.0, 5324.0, 5300.0, 5724.0, 5494.0, 5476.0, 5346.0, 5586.0, 5550.0, 5408.0, 5496.0, 5430.0, 5645.0, 5509.0, 5525.0, 5614.0, 5414.0, 5600.0, 5719.0, 5492.0, 5592.0, 5616.0, 5690.0, 5480.0, 5444.0, 5279.0, 5654.0, 5446.0, 5421.0, 5535.0, 5425.0, 5716.0, 5658.0, 5271.0, 5355.0, 5567.0, 5287.0, 5691.0, 5605.0, 5582.0, 5419.0, 5382.0, 5718.0, 5325.0, 5256.0, 5536.0, 5595.0, 5386.0, 5303.0, 5668.0, 5472.0, 5639.0, 5269.0, 5581.0, 5635.0, 5420.0, 5459.0, 5713.0, 5389.0, 5493.0, 5650.0, 5557.0, 5500.0, 5268.0, 5465.0, 5343.0, 5617.0, 5290.0, 5580.0, 5553.0, 5354.0, 5579.0, 5265.0, 5280.0, 5294.0, 5556.0, 5640.0, 5502.0, 5705.0, 5546.0, 5362.0, 5413.0, 5620.0, 5504.0, 5627.0, 5688.0, 5293.0, 5646.0, 5560.0, 5403.0, 5368.0 (number of hits: 40)
23	5570.0	9	1.0	333	1	5567.0, 5666.0, 5712.0, 5616.0, 5455.0, 5481.0, 5448.0, 5638.0, 5299.0, 5426.0, 5624.0, 5276.0, 5593.0, 5491.0, 5716.0, 5549.0, 5255.0, 5368.0, 5447.0, 5615.0, 5629.0, 5442.0, 5528.0, 5408.0, 5395.0, 5501.0, 5521.0, 5405.0, 5635.0, 5430.0, 5413.0, 5437.0, 5456.0, 5671.0, 5480.0, 5312.0, 5618.0, 5608.0, 5700.0, 5660.0, 5647.0, 5496.0, 5636.0, 5362.0, 5541.0, 5406.0, 5576.0, 5351.0, 5628.0, 5667.0, 5524.0, 5400.0, 5648.0, 5487.0, 5457.0, 5497.0, 5303.0, 5680.0, 5705.0, 5394.0, 5584.0, 5708.0, 5633.0, 5586.0, 5403.0, 5420.0, 5717.0, 5251.0, 5441.0, 5311.0, 5302.0, 5581.0, 5338.0, 5485.0, 5314.0, 5397.0, 5531.0, 5569.0, 5269.0, 5280.0, 5513.0, 5259.0, 5346.0, 5472.0, 5453.0, 5289.0, 5306.0, 5478.0, 5547.0, 5428.0, 5610.0, 5556.0, 5335.0, 5504.0, 5365.0, 5676.0, 5494.0, 5512.0, 5713.0, 5622.0 (number of hits: 36)

24	5570.0	9	1.0	333	1	5303.0, 5265.0, 5607.0, 5369.0, 5564.0, 5421.0, 5327.0, 5645.0, 5620.0, 5451.0, 5383.0, 5608.0, 5708.0, 5292.0, 5495.0, 5532.0, 5449.0, 5342.0, 5543.0, 5684.0, 5456.0, 5424.0, 5301.0, 5721.0, 5252.0, 5575.0, 5679.0, 5673.0, 5258.0, 5317.0, 5676.0, 5300.0, 5669.0, 5362.0, 5666.0, 5400.0, 5671.0, 5256.0, 5484.0, 5516.0, 5572.0, 5641.0, 5349.0, 5266.0, 5372.0, 5333.0, 5386.0, 5475.0, 5544.0, 5720.0, 5704.0, 5250.0, 5384.0, 5462.0, 5335.0, 5590.0, 5592.0, 5324.0, 5494.0, 5344.0, 5438.0, 5393.0, 5311.0, 5648.0, 5661.0, 5681.0, 5567.0, 5493.0, 5257.0, 5445.0, 5672.0, 5555.0, 5595.0, 5404.0, 5573.0, 5350.0, 5457.0, 5481.0, 5347.0, 5446.0, 5604.0, 5707.0, 5635.0, 5496.0, 5588.0, 5328.0, 5315.0, 5370.0, 5568.0, 5656.0, 5598.0, 5469.0, 5546.0, 5429.0, 5600.0, 5649.0, 5331.0, 5428.0, 5485.0, 5723.0 (number of hits: 29)
25	5570.0	9	1.0	333	1	5355.0, 5287.0, 5268.0, 5411.0, 5462.0, 5576.0, 5585.0, 5253.0, 5611.0, 5698.0, 5558.0, 5527.0, 5260.0, 5288.0, 5638.0, 5609.0, 5426.0, 5404.0, 5394.0, 5706.0, 5444.0, 5678.0, 5559.0, 5572.0, 5348.0, 5552.0, 5555.0, 5663.0, 5656.0, 5478.0, 5381.0, 5405.0, 5713.0, 5252.0, 5618.0, 5458.0, 5719.0, 5297.0, 5631.0, 5533.0, 5650.0, 5460.0, 5704.0, 5673.0, 5396.0, 5540.0, 5465.0, 5685.0, 5395.0, 5377.0, 5449.0, 5310.0, 5350.0, 5466.0, 5705.0, 5292.0, 5636.0, 5432.0, 5628.0, 5617.0, 5388.0, 5374.0, 5398.0, 5299.0, 5401.0, 5549.0, 5308.0, 5483.0, 5560.0, 5623.0, 5367.0, 5406.0, 5386.0, 5392.0, 5689.0, 5477.0, 5445.0, 5403.0, 5574.0, 5430.0, 5481.0, 5490.0, 5675.0, 5271.0, 5707.0, 5561.0, 5534.0, 5289.0, 5655.0, 5393.0, 5586.0, 5647.0, 5557.0, 5361.0, 5506.0, 5595.0, 5662.0, 5291.0, 5484.0, 5644.0 (number of hits: 30)
26	5570.0	9	1.0	333	1	5445.0, 5479.0, 5453.0, 5538.0, 5673.0, 5430.0, 5663.0, 5623.0, 5690.0, 5444.0, 5686.0, 5464.0, 5282.0, 5293.0, 5582.0, 5343.0, 5496.0, 5344.0, 5370.0, 5548.0, 5403.0, 5605.0, 5368.0, 5649.0, 5305.0, 5330.0, 5364.0, 5597.0, 5300.0, 5463.0, 5260.0, 5425.0, 5296.0, 5552.0, 5320.0, 5723.0, 5645.0, 5478.0, 5418.0, 5450.0, 5685.0, 5475.0, 5427.0, 5307.0, 5707.0, 5380.0, 5510.0, 5714.0, 5480.0, 5287.0, 5514.0, 5642.0, 5433.0, 5281.0, 5266.0, 5574.0, 5523.0, 5697.0, 5688.0, 5455.0, 5262.0, 5471.0, 5356.0, 5708.0, 5660.0, 5392.0, 5567.0, 5654.0, 5596.0, 5292.0, 5269.0, 5263.0, 5495.0, 5474.0, 5347.0, 5699.0, 5695.0, 5357.0, 5648.0, 5537.0, 5443.0, 5585.0, 5704.0, 5494.0, 5396.0, 5408.0, 5587.0, 5508.0, 5527.0, 5511.0, 5358.0, 5566.0, 5304.0, 5363.0, 5519.0, 5711.0, 5565.0, 5693.0, 5308.0, 5599.0 (number of hits: 28)
27	5570.0	9	1.0	333	1	5584.0, 5400.0, 5491.0, 5448.0, 5613.0, 5647.0, 5289.0, 5268.0, 5281.0, 5411.0, 5717.0, 5430.0, 5591.0, 5678.0, 5518.0, 5378.0, 5426.0, 5498.0, 5263.0, 5404.0, 5677.0, 5597.0, 5634.0, 5370.0, 5578.0, 5352.0, 5355.0, 5609.0, 5602.0, 5565.0, 5311.0, 5657.0, 5624.0, 5453.0, 5408.0, 5366.0, 5636.0, 5533.0, 5596.0, 5688.0, 5632.0, 5403.0, 5345.0, 5256.0, 5527.0, 5303.0, 5633.0, 5666.0, 5361.0, 5719.0, 5544.0, 5440.0, 5710.0, 5557.0, 5598.0, 5497.0, 5567.0, 5539.0, 5644.0, 5450.0, 5511.0, 5441.0, 5507.0, 5671.0, 5293.0, 5351.0, 5468.0, 5314.0, 5594.0, 5603.0, 5324.0, 5372.0, 5424.0, 5251.0, 5346.0, 5480.0, 5347.0, 5523.0, 5643.0, 5500.0, 5337.0, 5502.0, 5398.0, 5568.0, 5434.0, 5712.0, 5330.0, 5481.0, 5654.0, 5333.0, 5659.0, 5560.0, 5716.0, 5417.0, 5551.0, 5718.0, 5295.0, 5531.0, 5653.0, 5563.0 (number of hits: 39)
28	5570.0	9	1.0	333	1	5387.0, 5420.0, 5513.0, 5358.0, 5352.0, 5560.0, 5505.0, 5251.0, 5291.0, 5493.0, 5614.0, 5677.0, 5371.0, 5391.0, 5308.0, 5555.0, 5415.0, 5478.0, 5363.0, 5712.0, 5396.0, 5461.0, 5468.0, 5421.0, 5443.0, 5698.0, 5460.0, 5656.0, 5401.0, 5630.0, 5636.0, 5572.0, 5710.0, 5673.0, 5457.0, 5483.0, 5319.0, 5381.0, 5286.0, 5402.0, 5591.0, 5458.0, 5611.0, 5296.0, 5454.0, 5287.0, 5515.0, 5395.0, 5385.0, 5280.0, 5327.0, 5413.0, 5288.0, 5500.0, 5361.0, 5588.0, 5647.0, 5538.0, 5262.0, 5540.0, 5549.0, 5253.0, 5437.0, 5603.0, 5393.0, 5268.0, 5298.0, 5289.0, 5301.0, 5455.0, 5343.0, 5610.0,

						5305.0, 5587.0, 5676.0, 5509.0, 5672.0, 5510.0, 5568.0, 5442.0, 5273.0, 5340.0, 5643.0, 5257.0, 5629.0, 5441.0, 5580.0, 5586.0, 5376.0, 5366.0, 5639.0, 5295.0, 5369.0, 5569.0, 5490.0, 5692.0, 5661.0, 5480.0, 5662.0, 5409.0 (number of hits: 30)
29	5570.0	9	1.0	333	1	5599.0, 5510.0, 5606.0, 5532.0, 5573.0, 5284.0, 5451.0, 5680.0, 5512.0, 5569.0, 5365.0, 5527.0, 5392.0, 5453.0, 5525.0, 5639.0, 5259.0, 5538.0, 5307.0, 5471.0, 5628.0, 5547.0, 5588.0, 5643.0, 5417.0, 5721.0, 5277.0, 5567.0, 5291.0, 5268.0, 5373.0, 5448.0, 5469.0, 5668.0, 5614.0, 5646.0, 5616.0, 5579.0, 5263.0, 5553.0, 5710.0, 5333.0, 5661.0, 5321.0, 5537.0, 5711.0, 5691.0, 5394.0, 5322.0, 5361.0, 5572.0, 5251.0, 5593.0, 5705.0, 5621.0, 5416.0, 5544.0, 5585.0, 5595.0, 5390.0, 5626.0, 5431.0, 5375.0, 5269.0, 5497.0, 5660.0, 5706.0, 5428.0, 5395.0, 5496.0, 5605.0, 5702.0, 5511.0, 5552.0, 5442.0, 5664.0, 5276.0, 5473.0, 5339.0, 5364.0, 5485.0, 5520.0, 5575.0, 5359.0, 5648.0, 5371.0, 5304.0, 5562.0, 5295.0, 5479.0, 5655.0, 5722.0, 5335.0, 5424.0, 5279.0, 5677.0, 5713.0, 5443.0, 5467.0, 5413.0 (number of hits: 37)
30	5570.0	9	1.0	333	1	5557.0, 5257.0, 5342.0, 5362.0, 5475.0, 5644.0, 5396.0, 5352.0, 5632.0, 5679.0, 5329.0, 5278.0, 5508.0, 5429.0, 5356.0, 5714.0, 5719.0, 5288.0, 5465.0, 5495.0, 5478.0, 5692.0, 5479.0, 5404.0, 5603.0, 5500.0, 5297.0, 5338.0, 5658.0, 5307.0, 5524.0, 5483.0, 5502.0, 5384.0, 5421.0, 5552.0, 5358.0, 5695.0, 5380.0, 5706.0, 5616.0, 5646.0, 5643.0, 5287.0, 5301.0, 5612.0, 5482.0, 5549.0, 5631.0, 5368.0, 5408.0, 5435.0, 5687.0, 5543.0, 5464.0, 5395.0, 5518.0, 5467.0, 5400.0, 5341.0, 5258.0, 5317.0, 5640.0, 5445.0, 5715.0, 5438.0, 5702.0, 5556.0, 5485.0, 5491.0, 5431.0, 5283.0, 5414.0, 5291.0, 5480.0, 5573.0, 5680.0, 5553.0, 5314.0, 5433.0, 5323.0, 5373.0, 5418.0, 5420.0, 5468.0, 5578.0, 5561.0, 5311.0, 5387.0, 5529.0, 5685.0, 5450.0, 5422.0, 5583.0, 5656.0, 5671.0, 5681.0, 5312.0, 5277.0, 5440.0 (number of hits: 26)

**P2P Mode
Iron Radio****5500 MHz, 20 MHz Bandwidth**

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1A/1B	30	93.3 %	60%	Pass
Type 2	30	90 %	60%	Pass
Type 3	30	80 %	60%	Pass
Type 4	30	76.7 %	60%	Pass
Aggregate (Type1 to 4)	120	85 %	80%	Pass
Type 5	30	100 %	80%	Pass
Type 6	30	96.7 %	70%	Pass

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

Note: Radar was generated randomly in the frequency range of 5490-5510 MHz.

Trial #	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	68	1.0	778	1
2	72	1.0	738	1
3	81	1.0	658	0
4	83	1.0	638	1
5	76	1.0	698	1
6	70	1.0	758	1
7	57	1.0	938	1
8	59	1.0	898	1
9	65	1.0	818	1
10	61	1.0	878	1
11	62	1.0	858	1
12	89	1.0	598	1
13	99	1.0	538	1
14	95	1.0	558	1
15	58	1.0	918	1
16	32	1.0	1677	1
17	19	1.0	2915	1
18	82	1.0	648	1
19	30	1.0	1760	1
20	50	1.0	1060	1
21	26	1.0	2098	1
22	21	1.0	2592	1
23	33	1.0	1610	1
24	34	1.0	1560	1
25	23	1.0	2379	1
26	51	1.0	1035	1
27	35	1.0	1550	1
28	18	1.0	2944	1
29	19	1.0	2923	0
30	91	1.0	581	1
Detection Percentage: 93.3 % (>60%)				

Table-2 Radar Type 2 Statistical Performance

Note: Radar was generated randomly in the frequency range of 5490-5510 MHz

Trial #	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	26	3.5	208	1
2	26	2.1	190	1
3	27	4.8	167	1
4	25	4.8	225	1
5	23	2.3	198	1
6	27	2.6	182	1
7	28	1.1	161	1
8	27	5.0	168	1
9	27	1.6	200	1
10	24	1.2	159	1
11	28	3.9	192	1
12	25	3.4	226	0
13	25	3.4	152	1
14	26	1.5	215	1
15	25	1.7	190	1
16	28	1.9	196	1
17	26	4.4	225	0
18	25	2.3	189	1
19	25	3.5	173	1
20	28	3.6	200	1
21	28	3.9	216	1
22	29	1.0	160	1
23	26	4.0	208	1
24	24	3.6	197	1
25	24	3.3	167	1
26	23	2.4	178	1
27	28	3.2	215	1
28	28	2.9	183	1
29	24	1.5	196	1
30	29	2.9	157	0
Detection Percentage: 90 % (>60%)				