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: LDKIW9165E
IC: 2461A-IW9165E
Similar Model: IW9165E-ROW, IW9165E-A, IW9165E-B

Report Type: Original Report		**Product Type:** Access Point
Prepared By	Tao Jin Test Engineer	
Report Number	R2303171	
Report Date	2023-07-21	
Reviewed By	Simon Ma RF Supervisor	

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CERTIFICATE #3297.02

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	R2303171	Original Report	2023-07-21

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: LDKIW9165E, IC: 2461A-IW9165E,* Model: IW9165E-B (FCC) and IW9165E-A (ISED) as referred to as EUT in this report. The product is a BLE, 4.9 GHz, 5G Wi-Fi dual band, 6E Wi-Fi, and GNSS Outdoor 2x2 Access Point. The EUT has two radios: Pine and Cobalt. Both radios support up to 80 MHz channel bandwidth configurations. Both radios support operation in point to point (P2P) mode, point to multipoint (P2MP) mode, and point to multipoint Client Mode with Radar Detection. Also Cobalt radio includes Working Group Bridge (WGB) mode.

IW9165E-ROW and IW9165E-A are electrically identical with the tested model: IW9165E-B. Please refer to the Manufacturer Declaration of Similarity Letter in Annex C.

The EUT supports P2P, P2MP, and Client with radar detection modes for operation.

IW9165E-B - B domain (Hardware PID)
IW9165E-B-URWB – URWB mode
IW9165E-B-WGB – WGB mode

IW9165E-A - A domain (Hardware PID)
IW9165E-A -URWB – URWB mode
IW9165E-A-WGB – WGB mode

IW9165E-ROW - ROW domain (Hardware PID)
IW9165E-ROW-URWB – URWB mode
IW9165E-ROW-WGB – WGB mode

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

Note: 5600-5650 MHz range shall not be applicable to ISED.

1.2 Mechanical Description of EUT

Length (cm)	Width (cm)	Height (cm)	Weight (kg)	S/N
15.2	12.3	4.3	0.70	FOC2638BL21; FOC2638BKZ8

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, LP0002-2020 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 P2P, P2MP and Client 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 LP0002-2020

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 EnvCobaltmental 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):
    - BSMI (Bureau of Standards, Metrology and Inspection) APEC Tel MRA -Phase I;
    - NCC (National Communications Commission) APEC Tel MRA -Phase I;
- European Union:
    - EMC Directive 2014/30/EU US-EU EMC & Telecom MRA CAB (NB)
    - Radio Equipment (RE) Directive 2014/53/EU US-EU EMC & Telecom MRA CAB (NB)
    - 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:
    - ENERGY STAR Recognized Test Laboratory – US EPA
    - Telecommunications Certification Body (TCB) – US FCC;
    - 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.

Two different firmware images were tested:

1. CURUWB Image: ap1g6m-k9c1-tar.202305121541 was tested for P2P, P2MP, and Client modes
2. WGB Image: m22-single-ng-dfs.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

2.5 Remote Support Equipment

Manufacturer	Description	Model	Serial Number
Lenovo	Laptop	T490	PF-274C83
Mini-Circuits	Power Splitter	ZN4PD1-63-S+	S UU71701639
Cisco	Access Point	IW9165DH-E	FOC2647775
Cisco	Access Point	IW9165E-E	FOC2638BKYB

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 LP0002-2020, 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 LP0002-2020, and KDB: 905462 D02 UNII DFS Compliance Procedures New Rules v02.

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

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

Table 2: Applicability of DFS requirements during normal operation

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

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

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

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

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

Table 4: DFS Response Requirement Values

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

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

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

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

Table 5: Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (Microseconds)	PRI (Microseconds)	Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a Test B: 15 unique PRI values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A	$\text{Roundup}\left\{\left(\frac{1}{360}\right)\cdot\left(\frac{19\cdot10^6}{\text{PRI}_{\mu\text{sec}}}\right)\right\}$	60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					

Table 6: Long Pulse Radar Test Signal

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

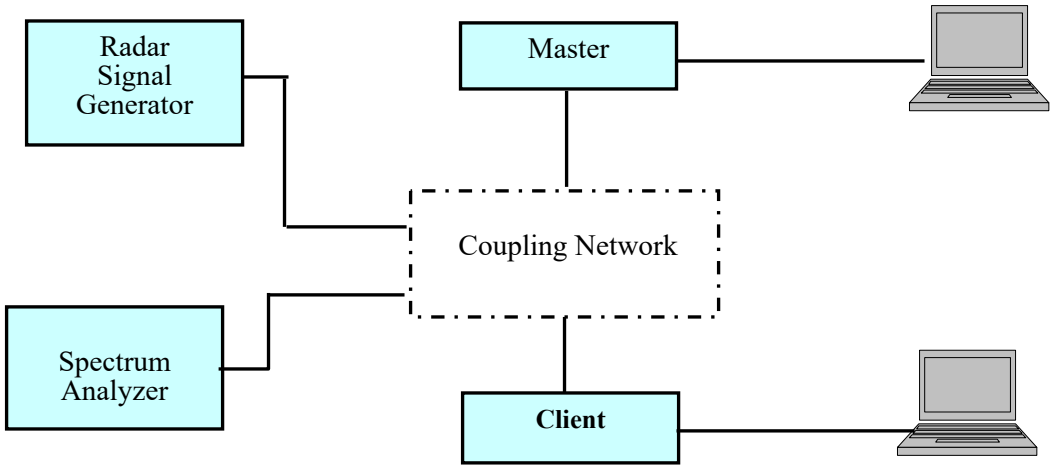
Table 7: Frequency Hopping Radar Test Signal

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

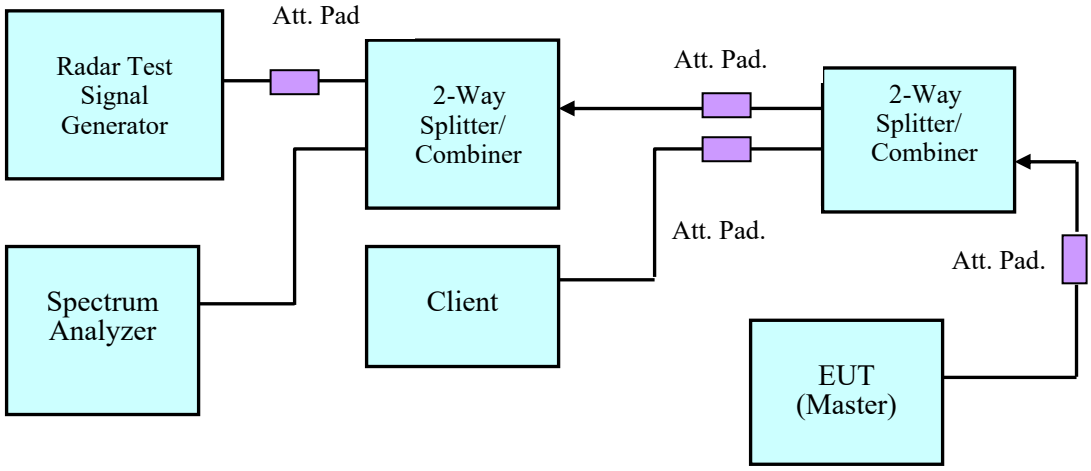
4.2 DFS Measurement System

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

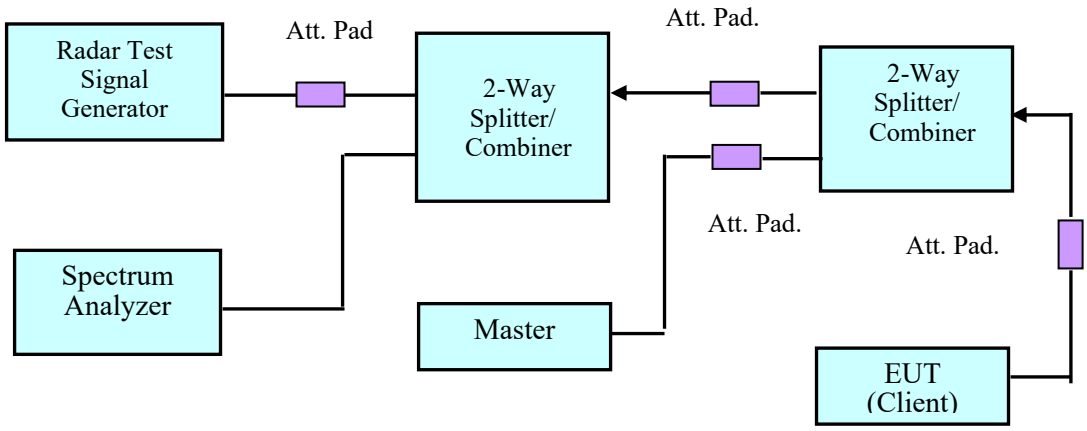
4.3 System Block Diagram



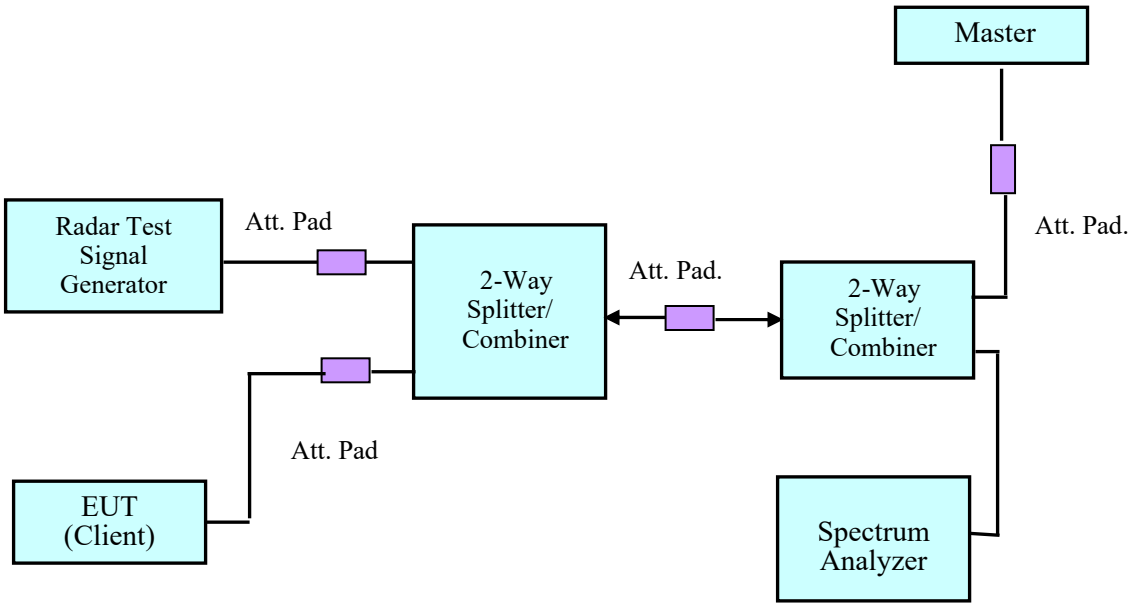
4.4 Conducted Method



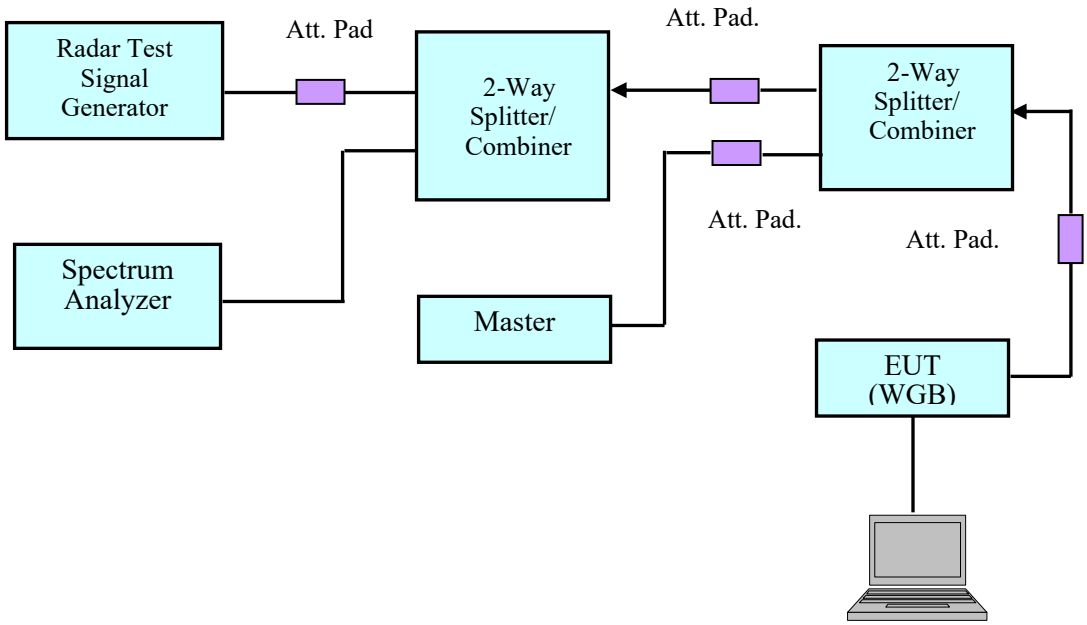
Setup for Conducted Method for Master Mode (P2P and P2MP)



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 three Operational Modes (P2P, P2MP, and Client w/ radar detection) for both radios (Cobalt and Pine).

The EUT was 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. Please refer to the following table for Detection Threshold.

Radio Type	Operation Mode	Antenna Gain (dBi)	EIRP (dBm)	Detection Threshold Assuming 0 dBi Antenna Gain (dBm)	Detection Threshold at the Antenna Port (dBm)
Cobalt	P2P	9.03	>23	-64	-54.97
	WGB,P2MP & Client	3	>23	-64	-61
Pine	P2P	9.03	>23	-64	-54.97
	P2MP & Client	3	>23	-64	-61

Note: Per client, operation modes will not operate with antennas that have lower gain than what is listed in above table. For example, P2P will not operate with antenna gain less than 9.03dBi and WGB,P2MP & Client will not operate with antenna gain less than 3dBi.

Please refer to the detailed antenna information in the next section.

WLAN traffic is generated by running iperf3.

5.2 Antenna Description

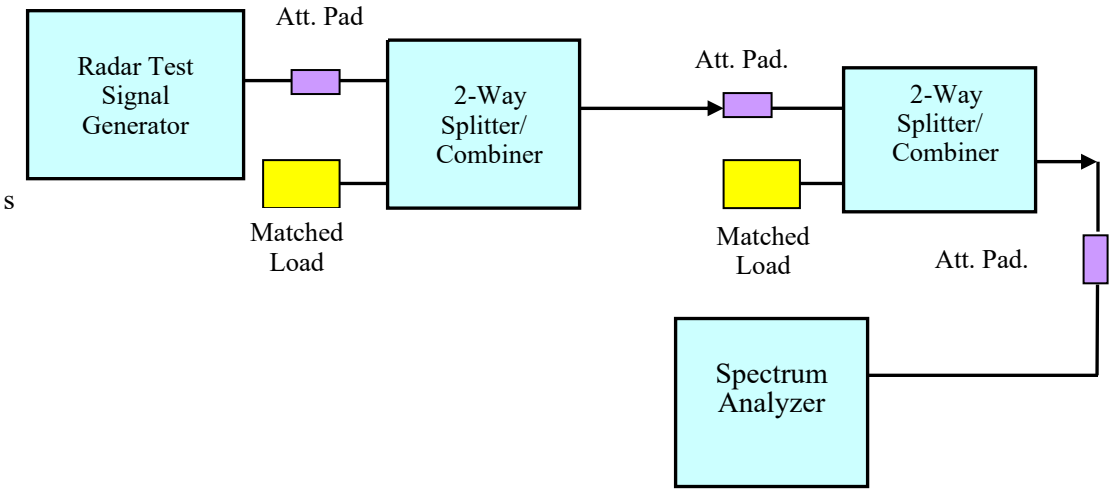
Antenna Type	Supplier	Antenna Part No.	Frequency (MHz)	Peak Antenna Gain (dBi)
Patch	Cisco	IW-ANT-PNL-59-N=	5.1GHz to 5.8GHz	9.03
Omnidirectional	Cisco	IW-ANT-OMM-53-N=	5.1GHz to 5.8GHz	3

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
424	Agilent	Analyzer, Spectrum	E4440A	US45303156	2022-12-19	1 year
1128	Agilent	EXA Signal Analyzer	N9010A	MY48030852	2023-04-25	1 year[2]
688	Keysight Technologies	Vector Signal Generator	N5182B	MY51350070	2022-07-28	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[1]	Each Time[1]
-	-	RF Cable	-	-	Each Time[1]	Each Time[1]

Note[1]: cable and attenuator included in the test set-up will be checked each time before testing.
Note[2]: this equipment was only used after 2023-04-25
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

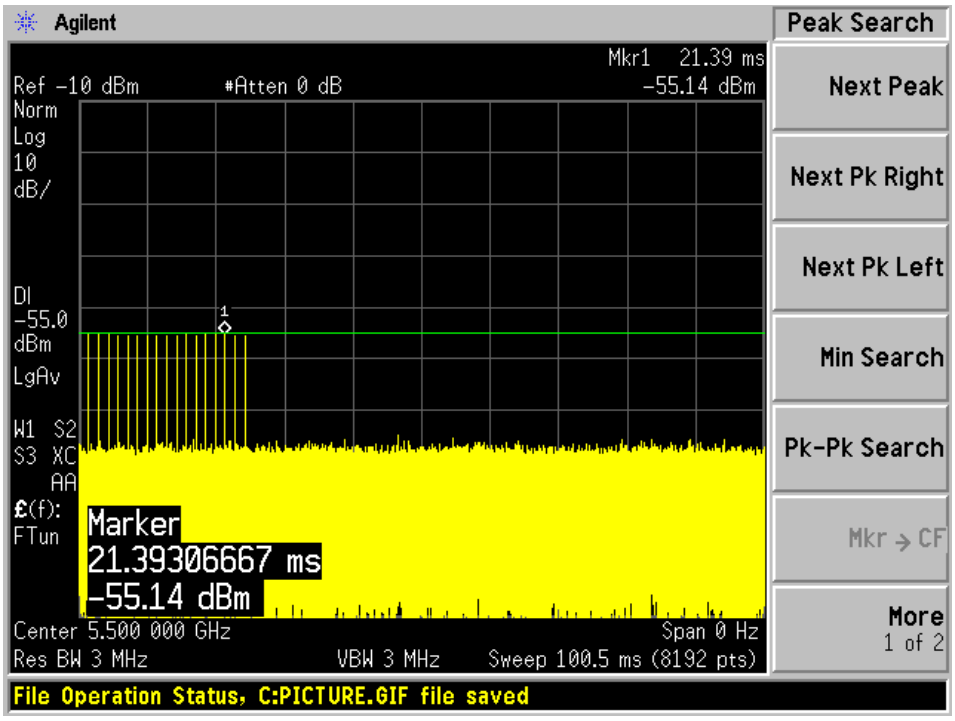
Testing was performed by Alexandre Duran & Tao Jin on 2023-04-20 to 2023-06-05 at the DFS testing site.

Plots of Radar Waveform

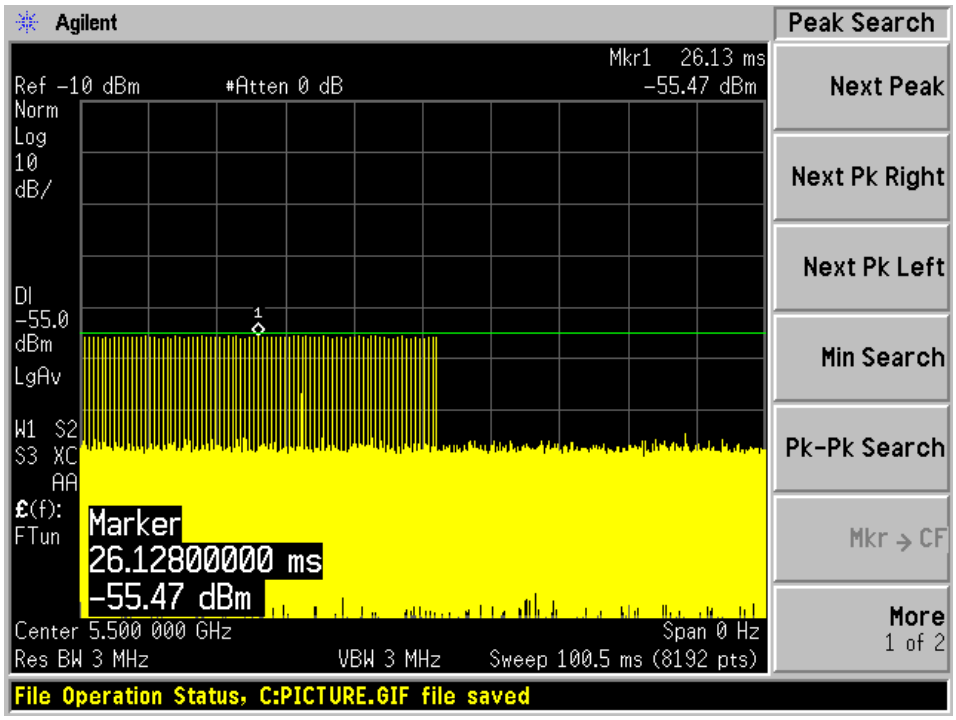
P2P Mode for Pine and Cobalt (-54.97 dBm)

5500 MHz, 20MHz Channel Bandwidth

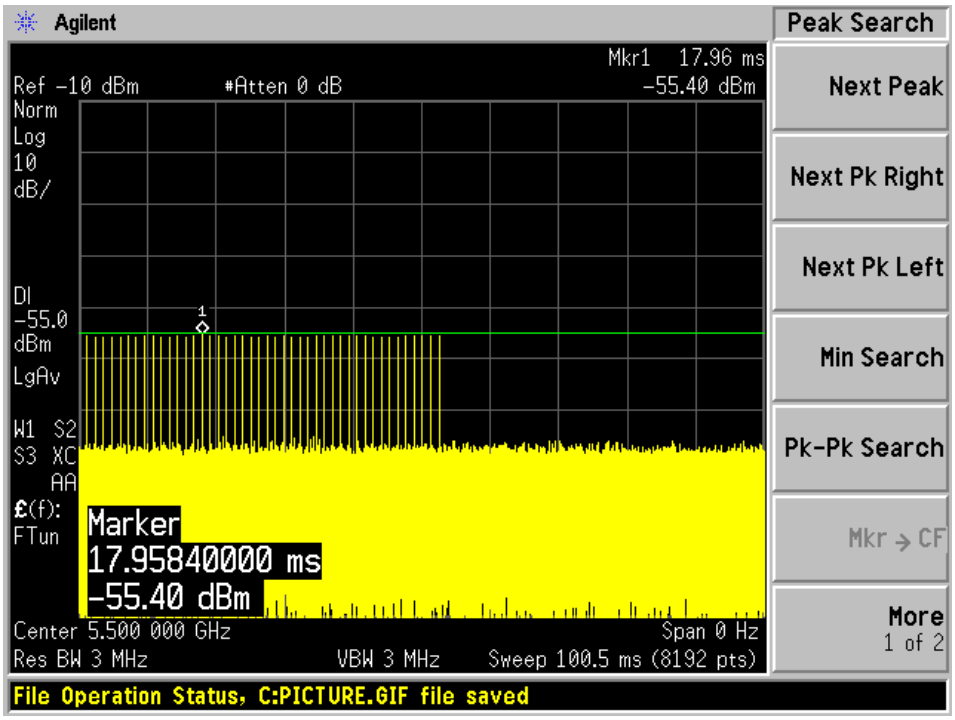
Radar Type 0



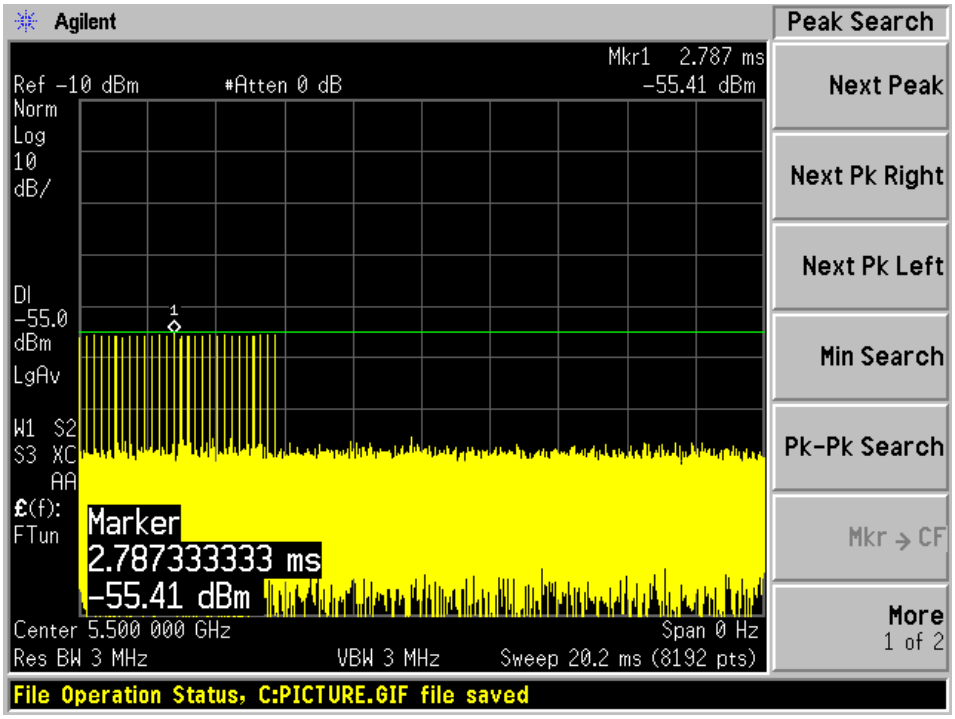
Radar Type 1A



Radar Type 1B



Radar Type 2



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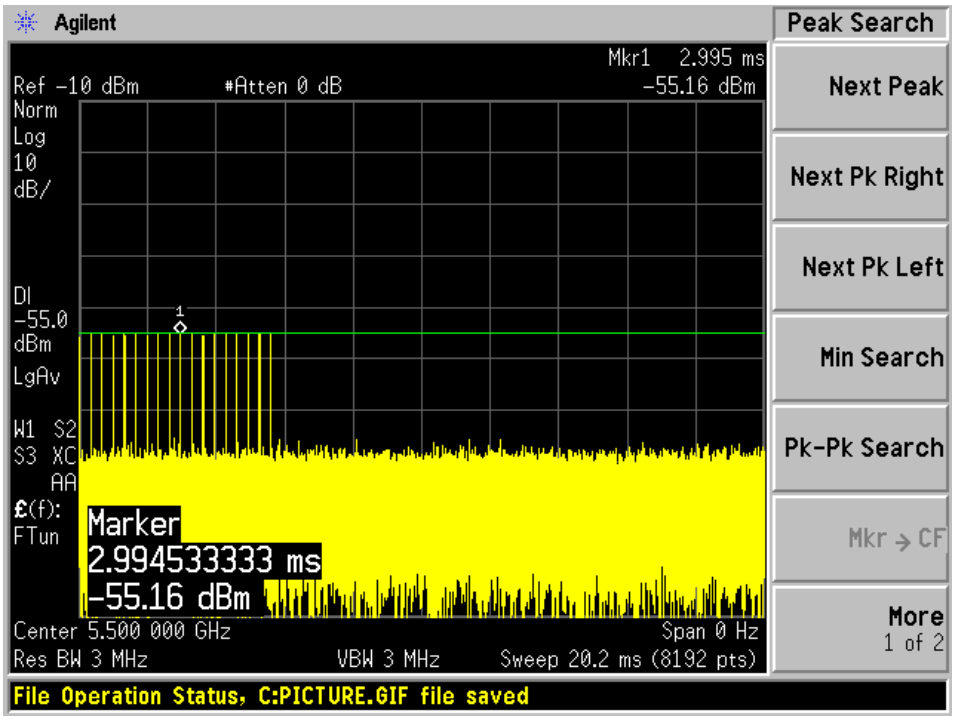
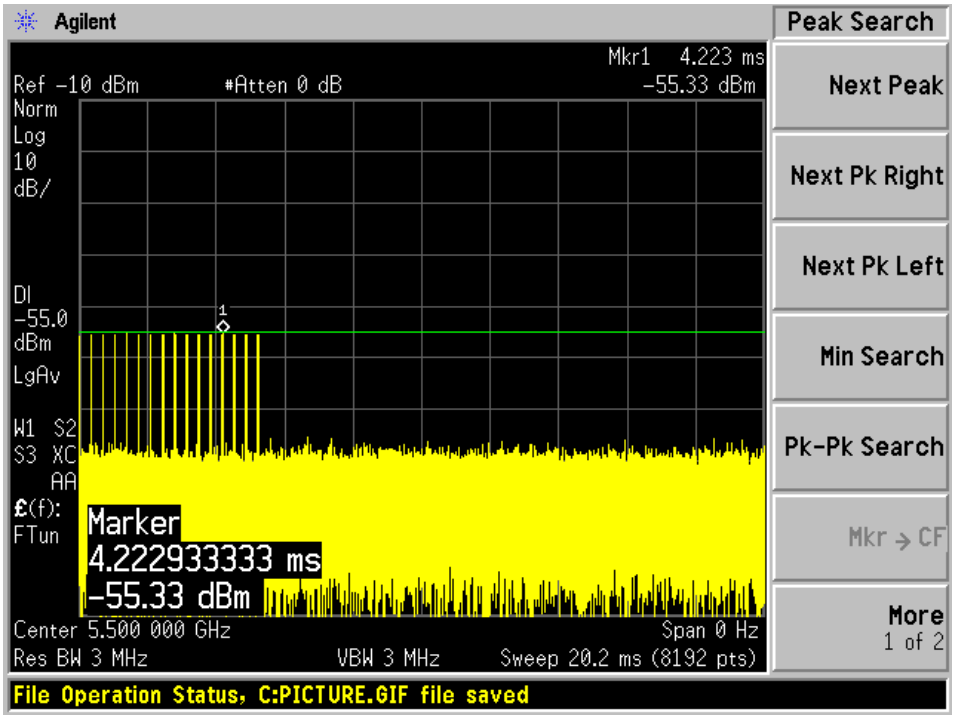
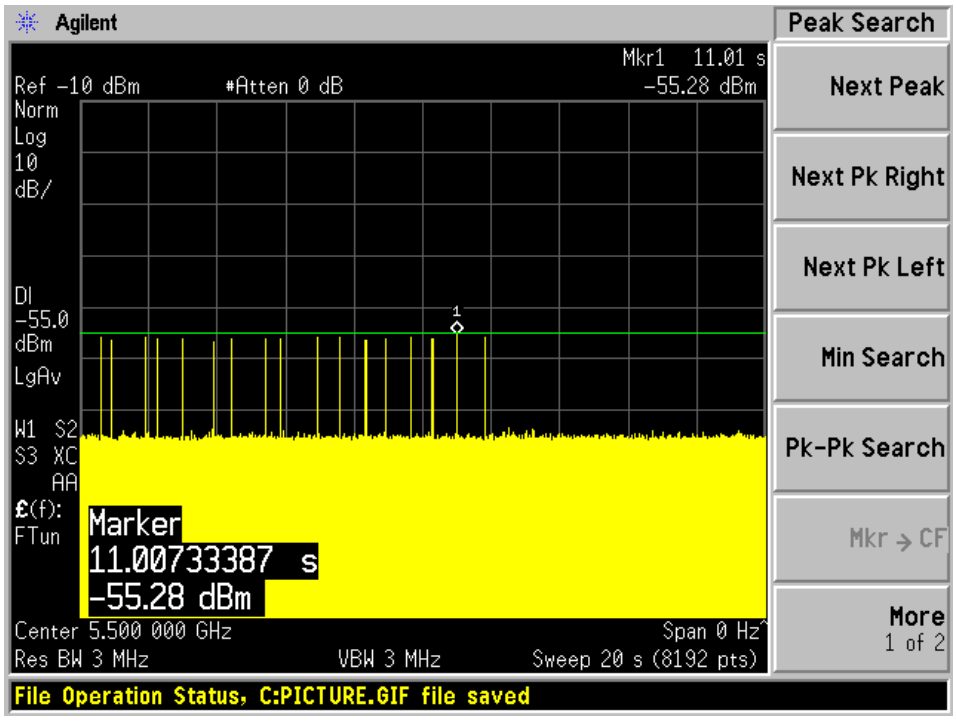


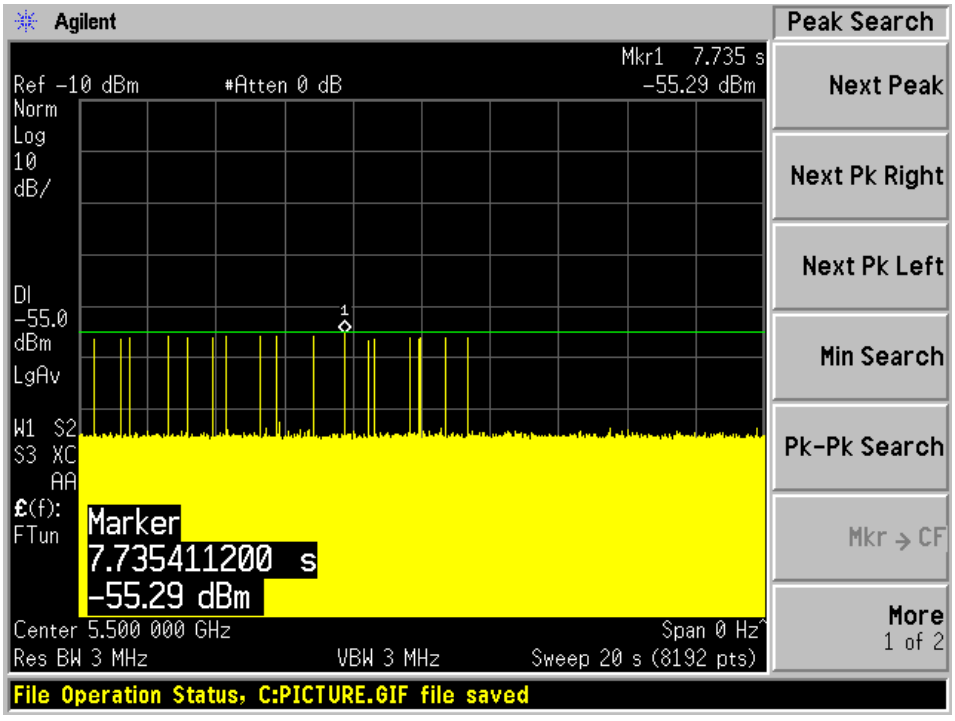
Radar Type 4



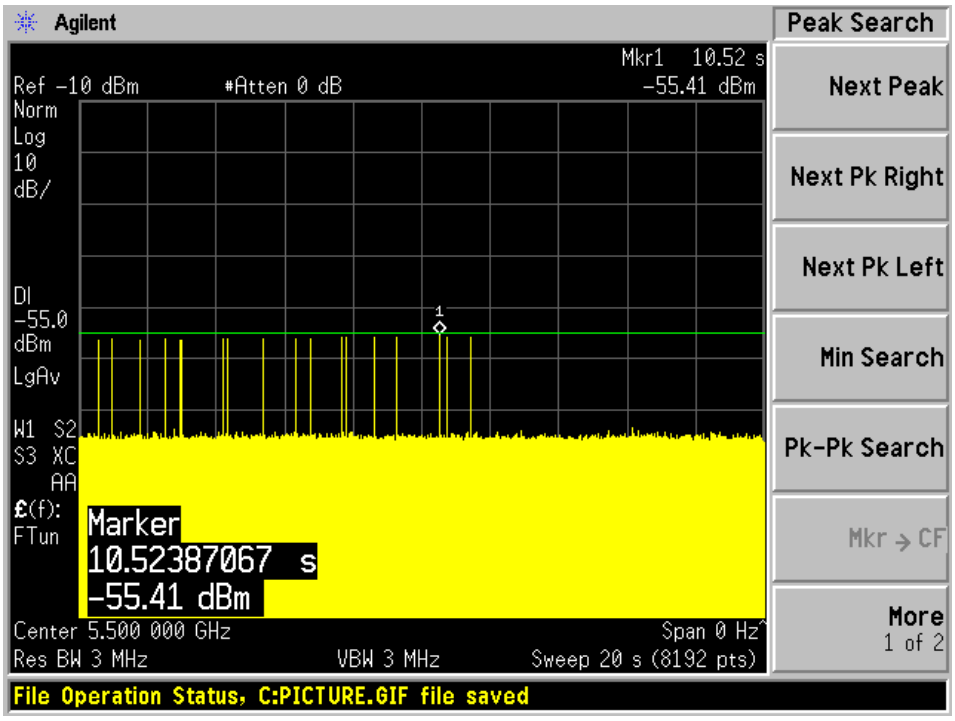
Radar Type 5 Case 1



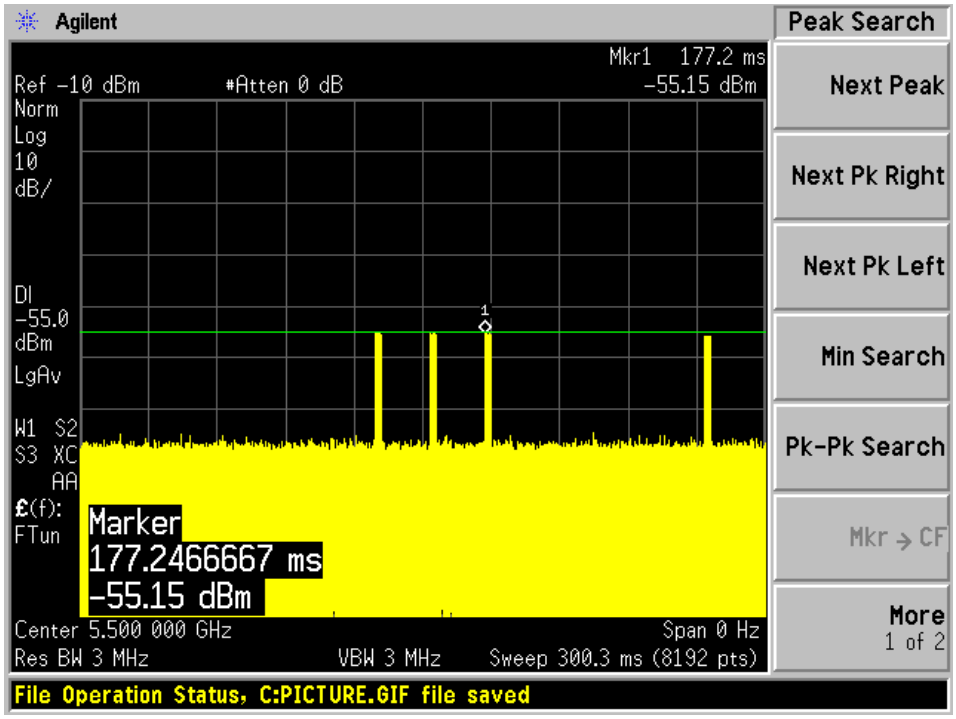
Radar Type 5 Case 2



Radar Type 5 Case 3



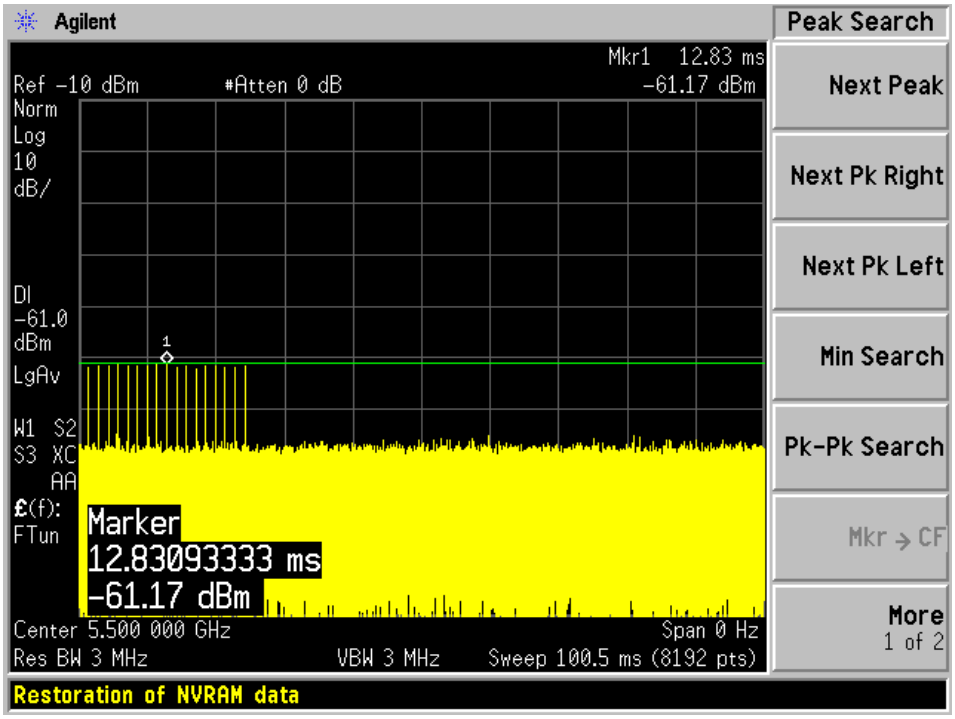
Radar Type 6



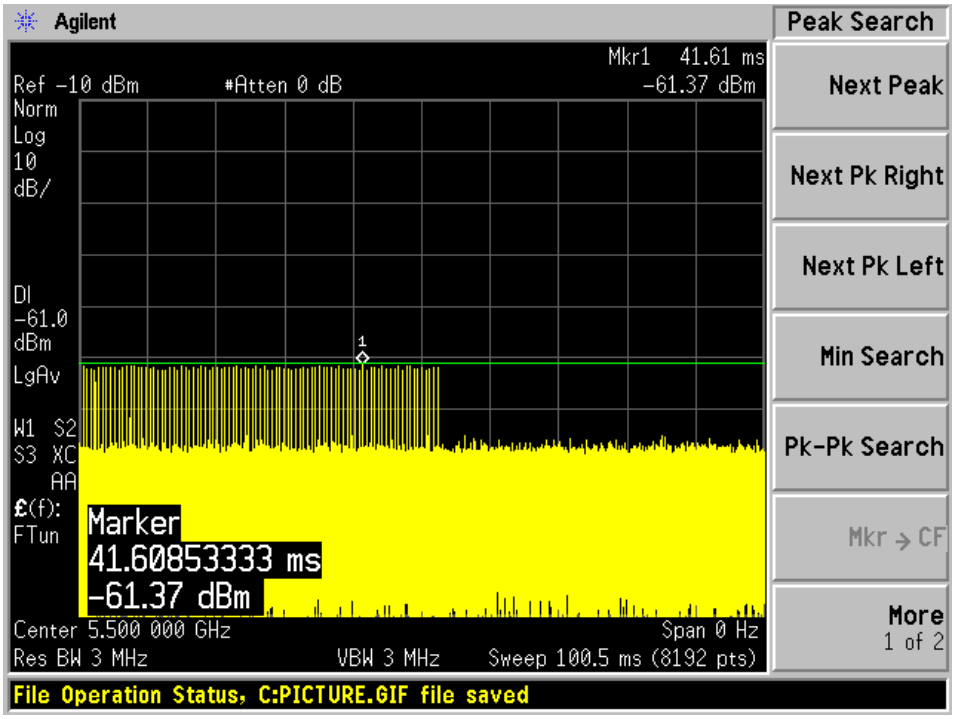
P2MP and Client Mode for Pine and Cobalt (-61 dBm)

5500 MHz, 20MHz Channel Bandwidth

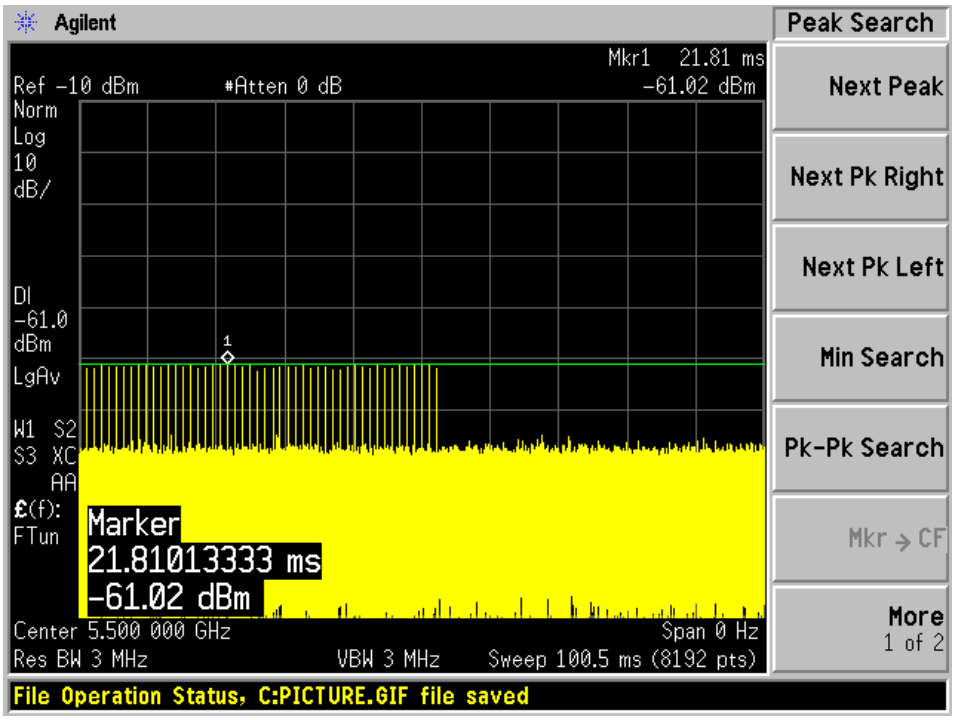
Radar Type 0



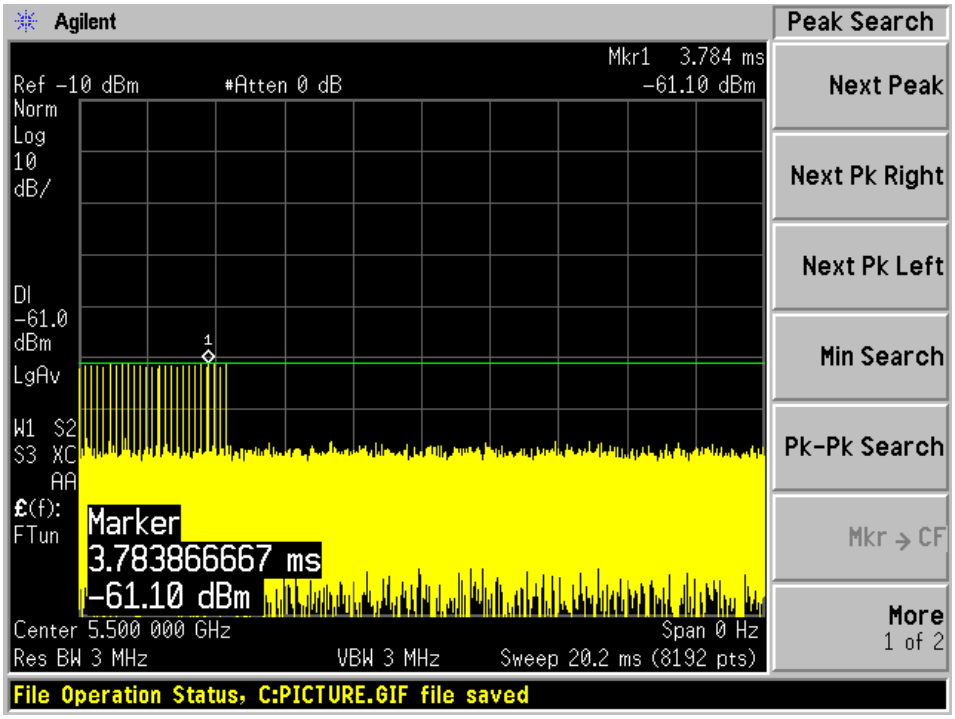
Radar Type 1A



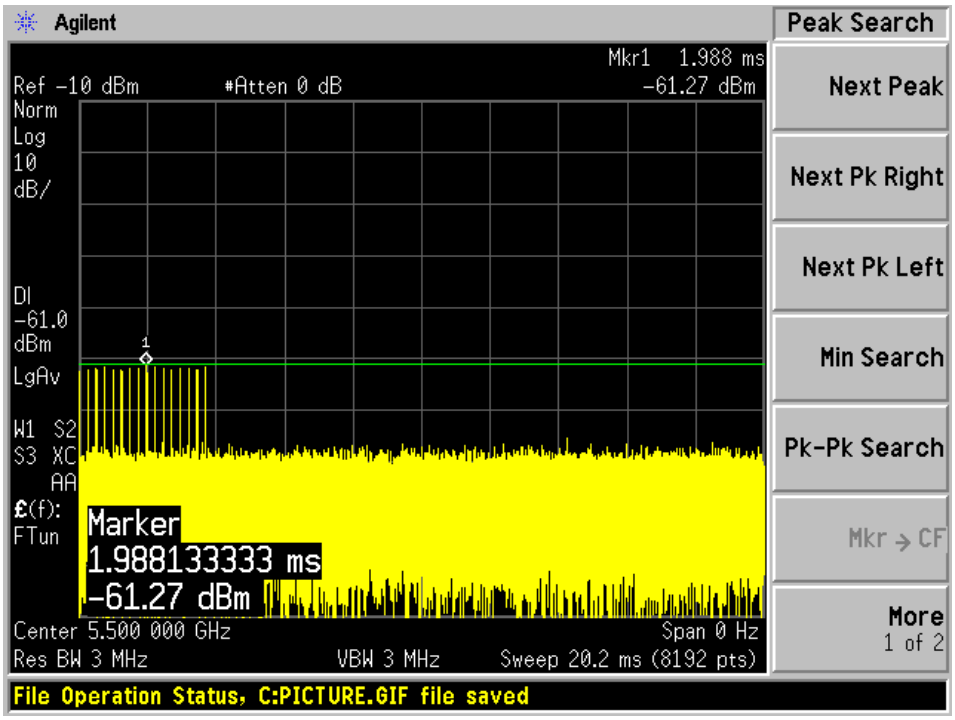
Radar Type 1B



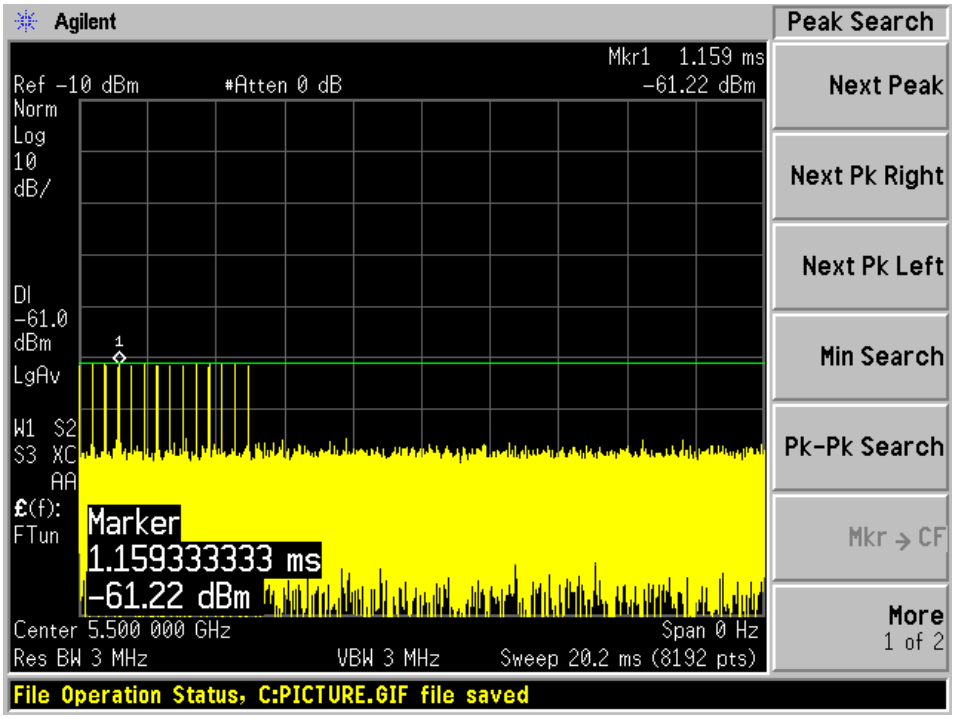
Radar Type 2



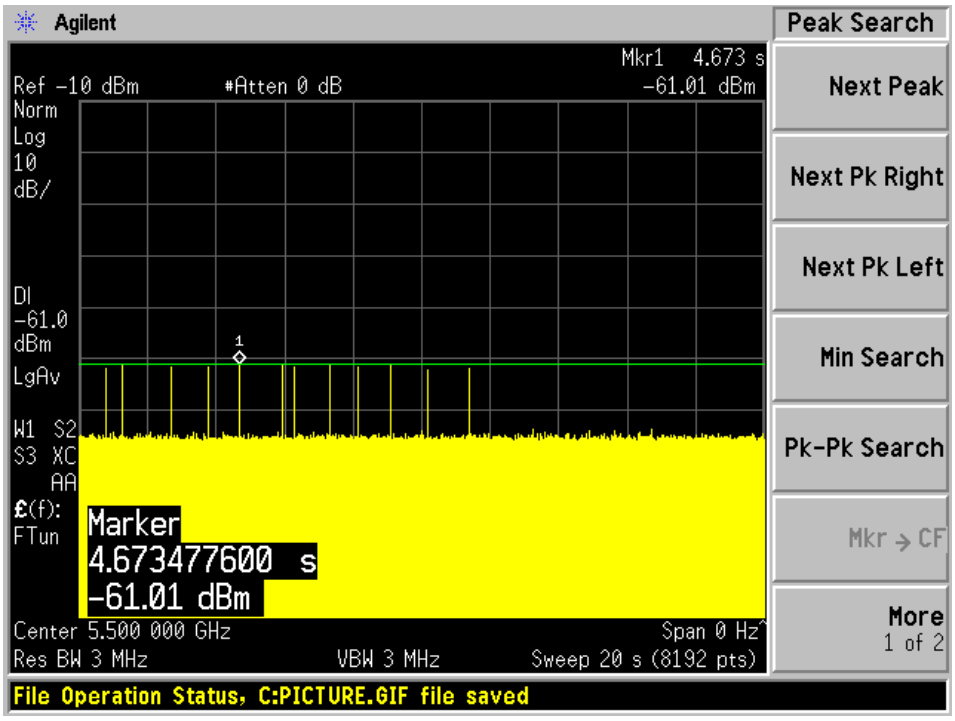
Radar Type 3



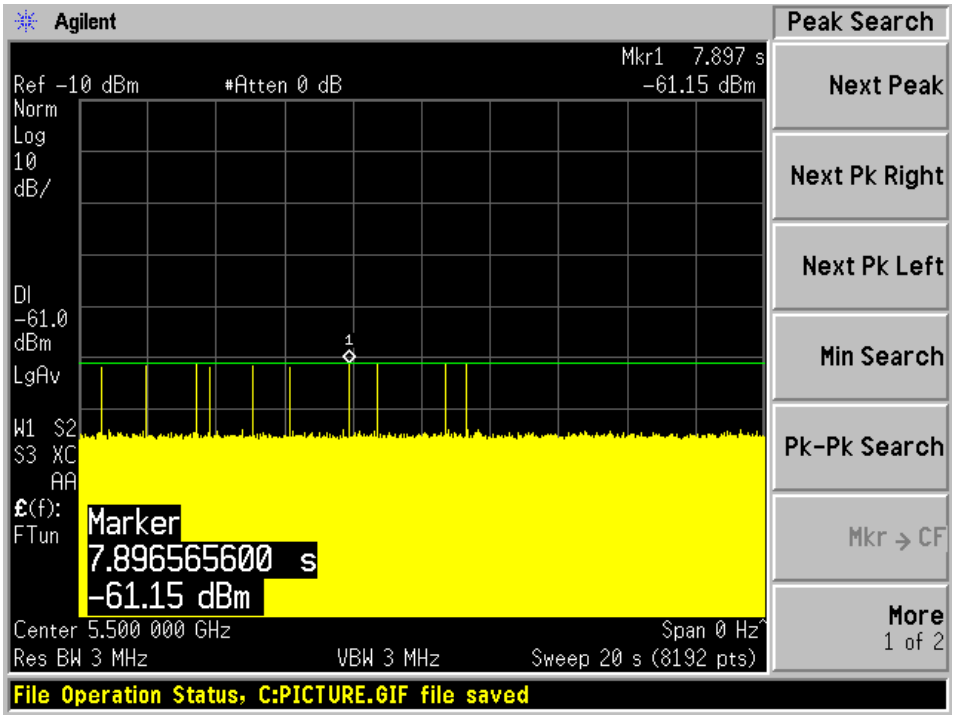
Radar Type 4



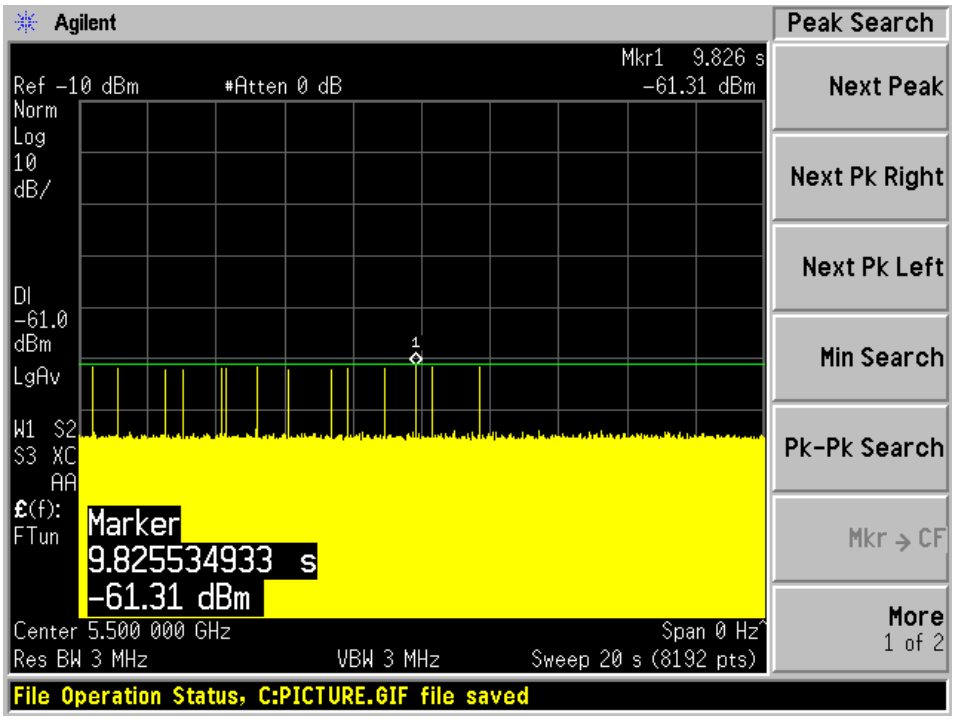
Radar Type 5 Case 1



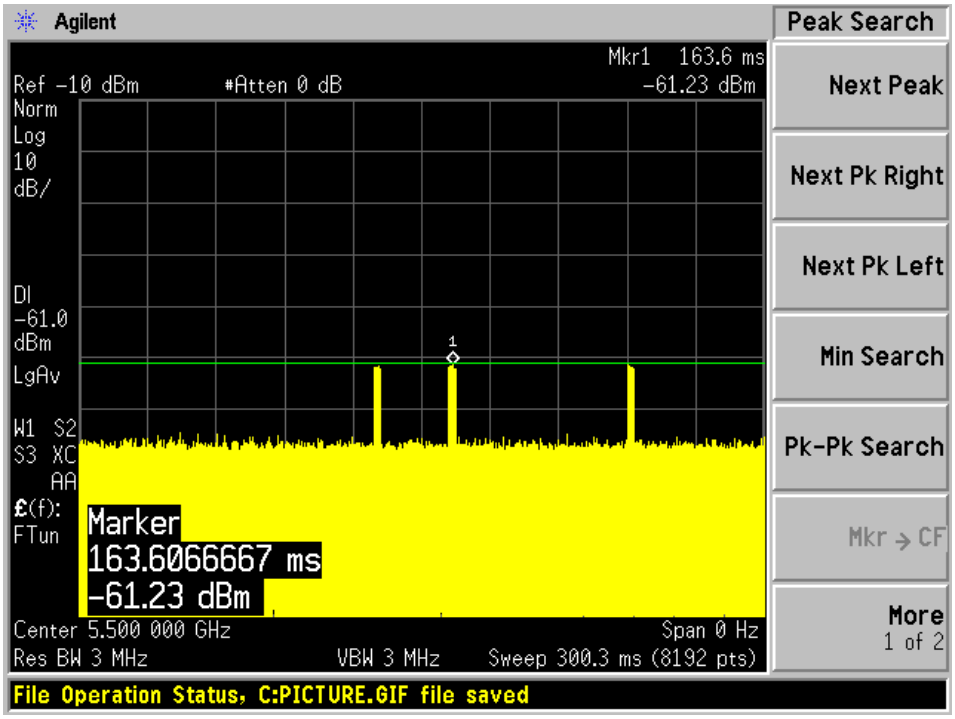
Radar Type 5 Case 2



Radar Type 5 Case 3



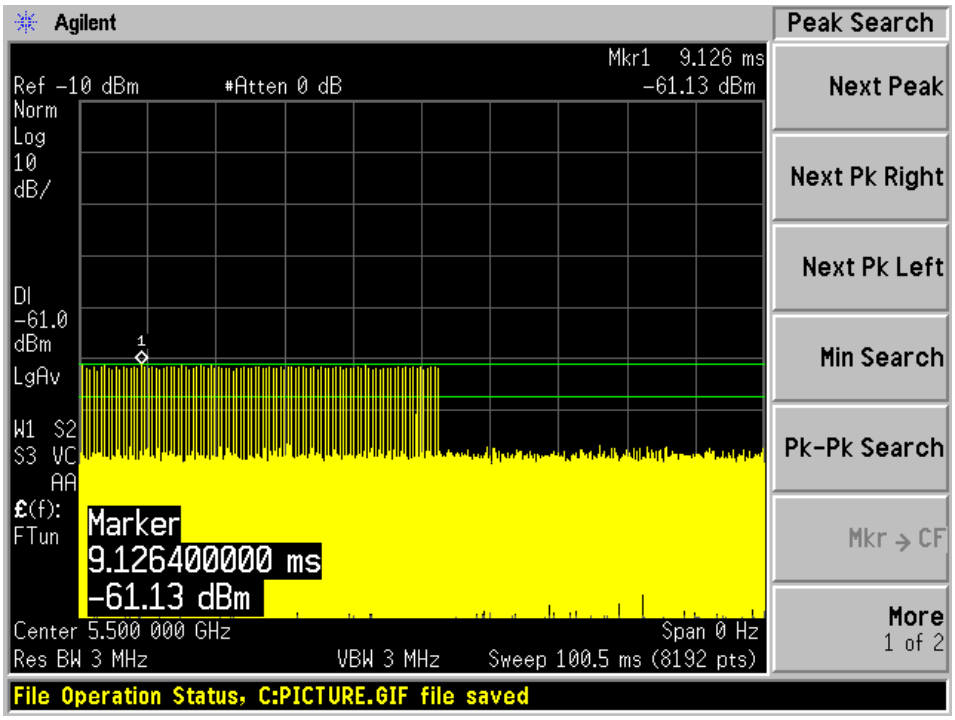
Radar Type 6



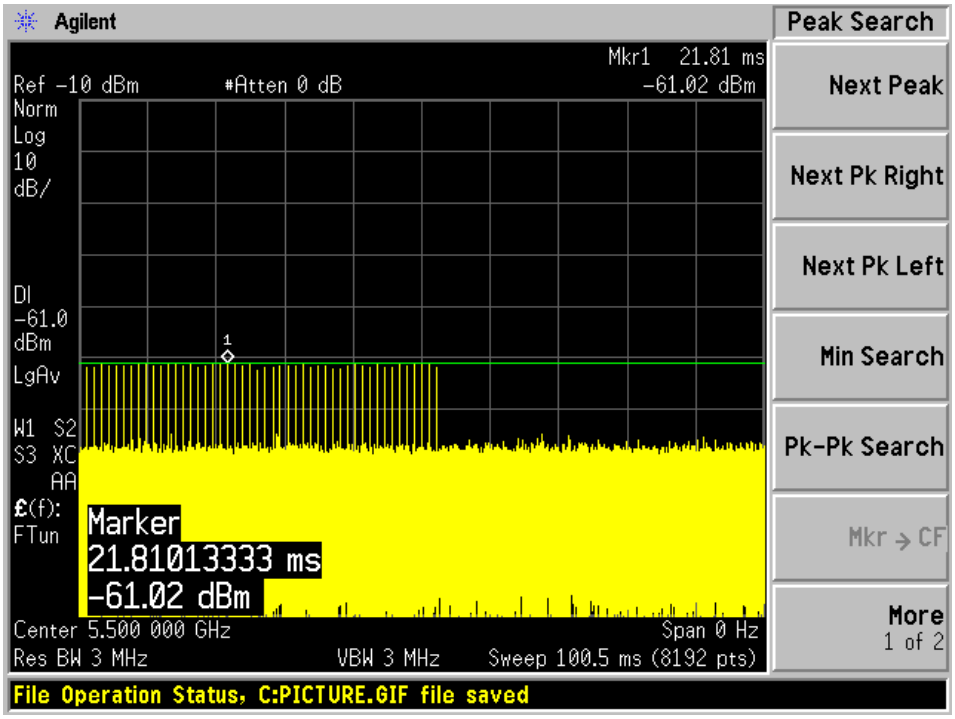
WGB Mode for Cobalt (-61 dBm)

5500 MHz, 20MHz Channel Bandwidth

Radar Type 1A



Radar Type 1B



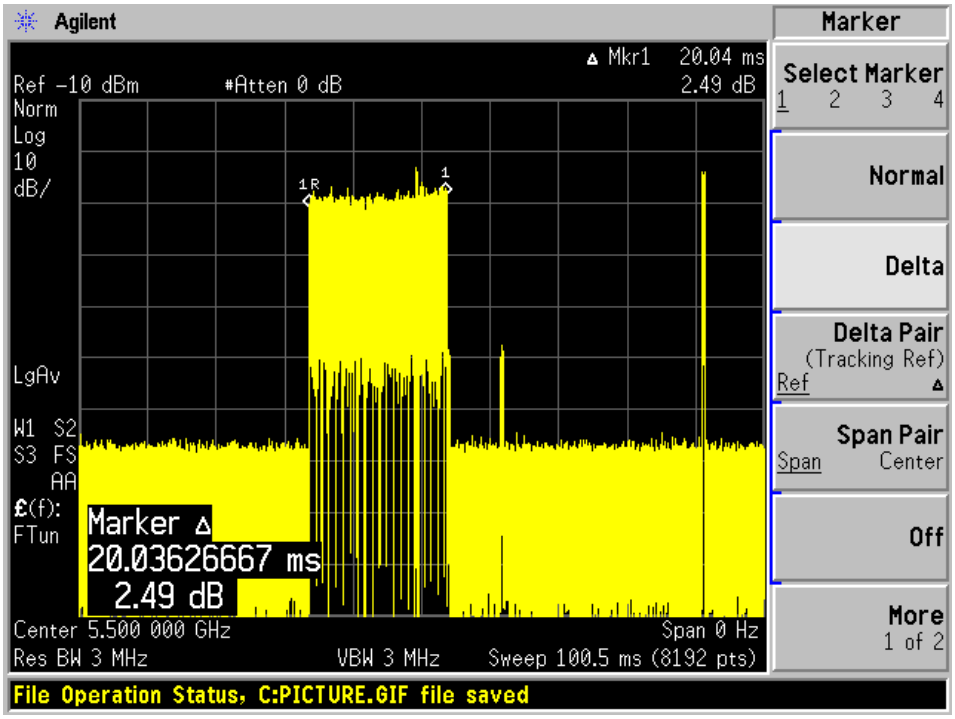
Note: Type 1A/1B is used for Statistical Performance Check for WGB mode.

5.6 Radar Traffic Duty Cycle Example

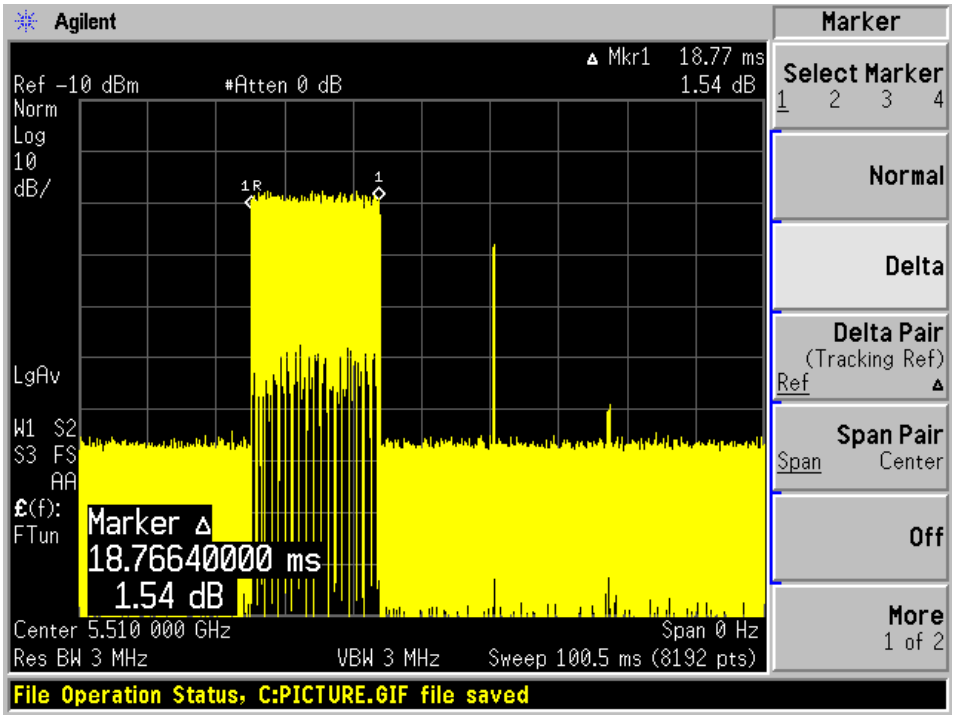
P2P Mode

Cobalt Radio

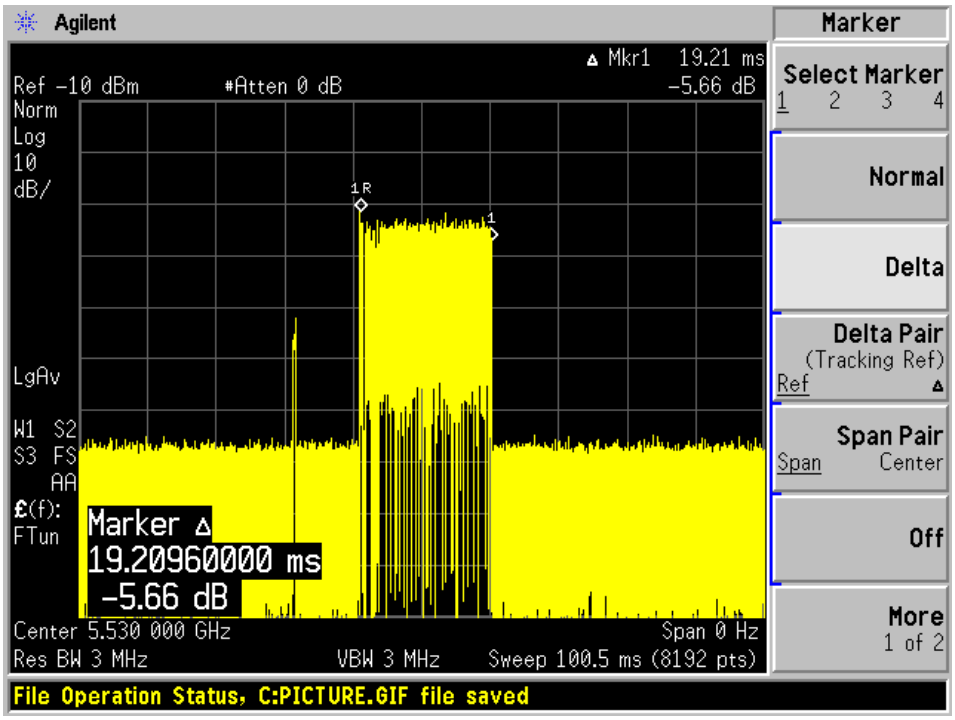
5500 MHz, 20MHz Bandwidth



5510MHz, 40MHz Bandwidth



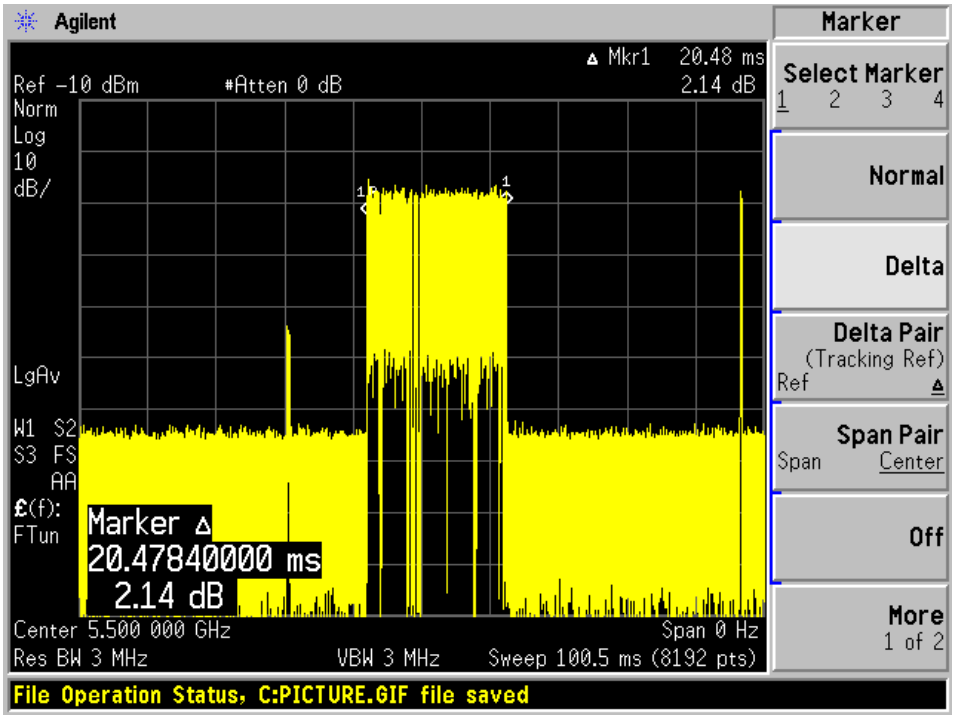
5530 MHz, 80MHz Bandwidth



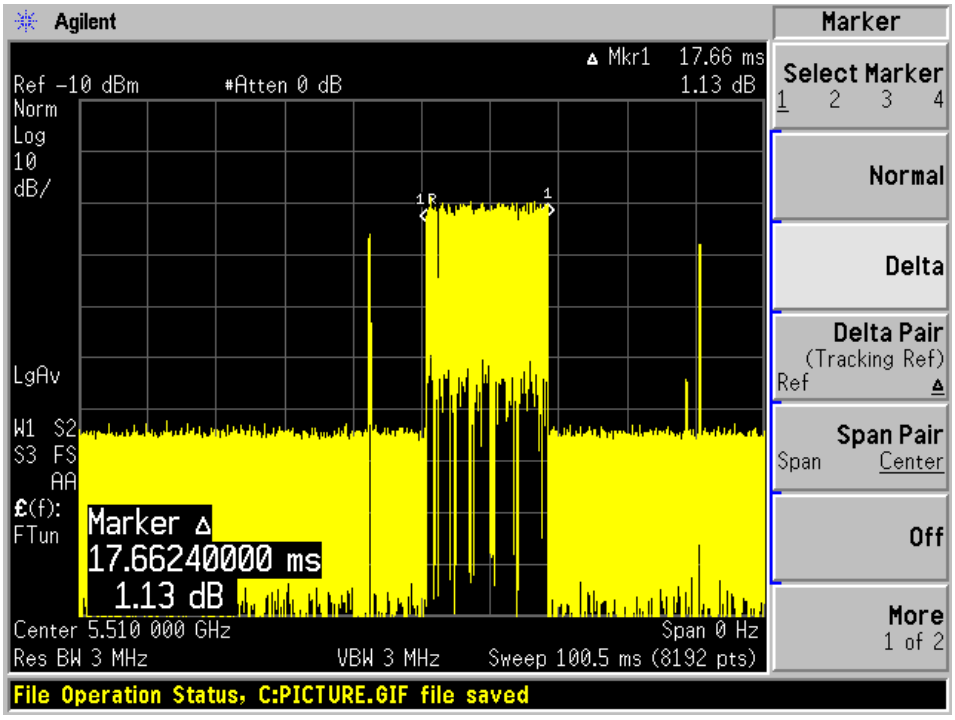
The Duty Cycle of the traffic is greater than 17%

Pine Radio

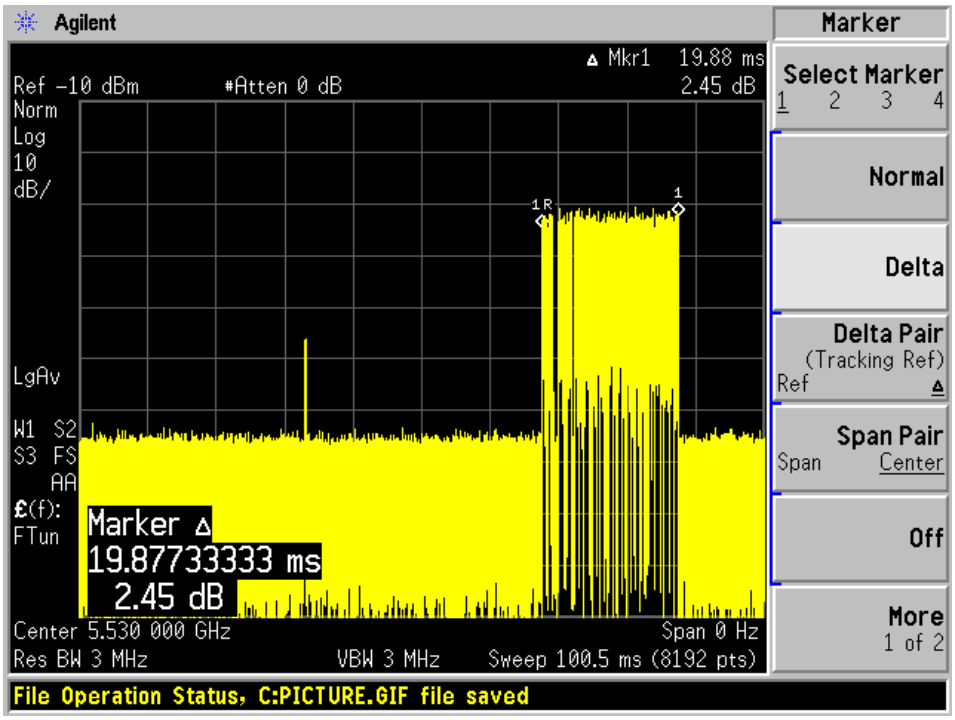
5500 MHz, 20MHz Bandwidth



5510MHz, 40MHz Bandwidth



5530 MHz, 80MHz Bandwidth

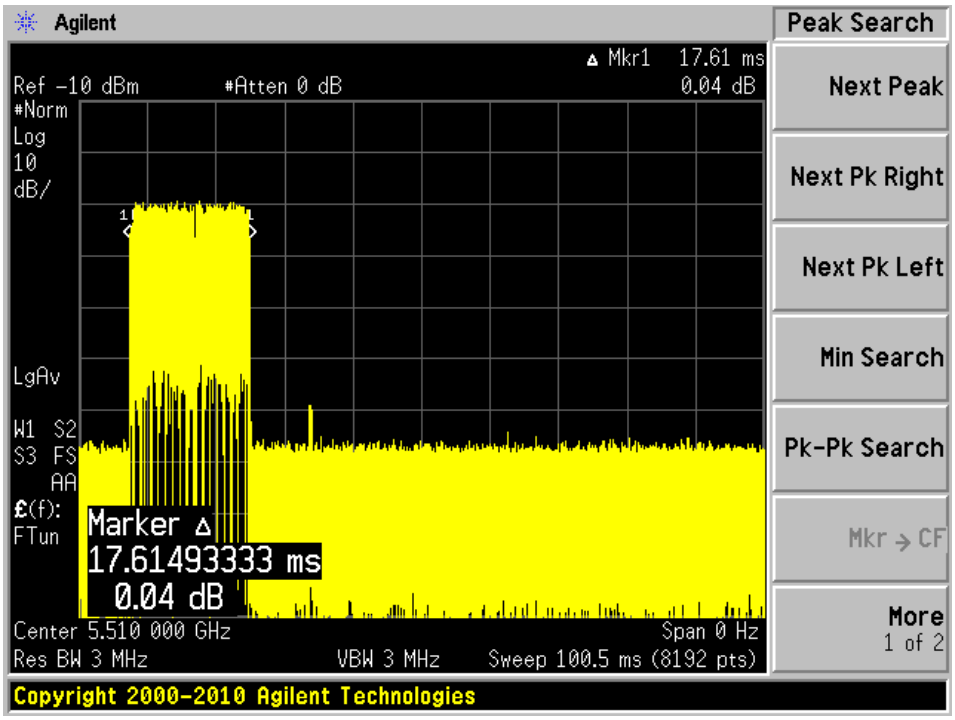


The Duty Cycle of the traffic is greater than 17%

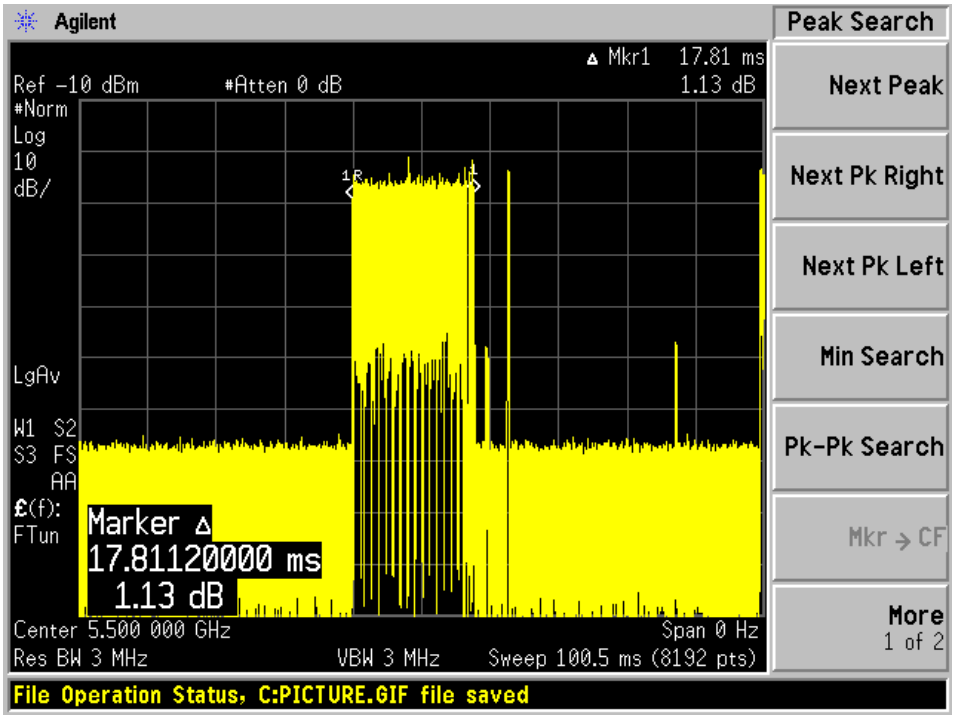
P2MP Mode

Cobalt Radio

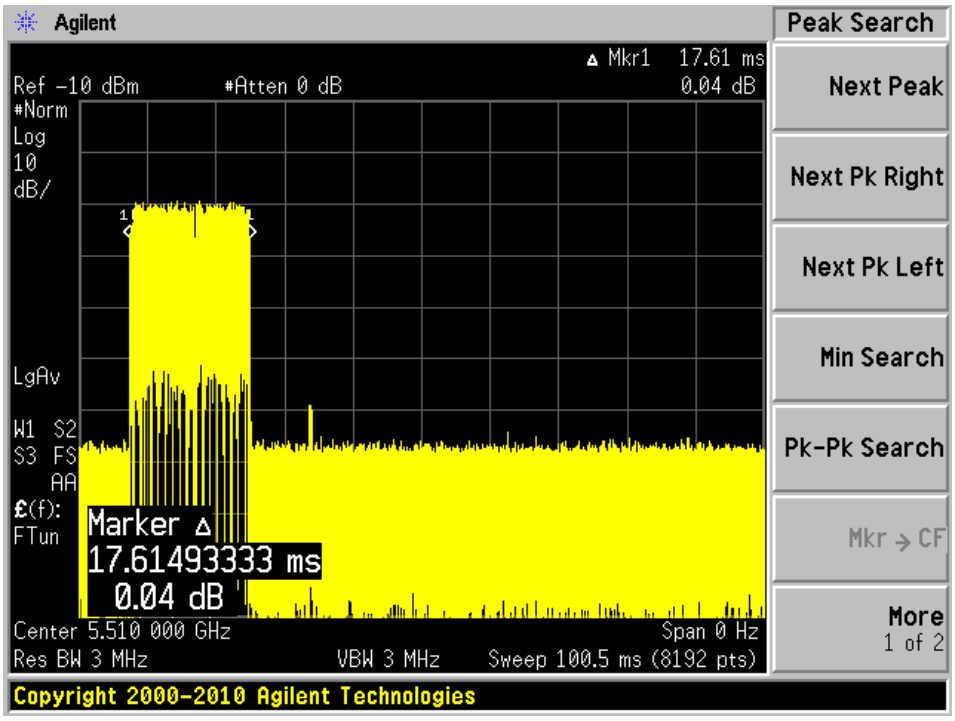
5500 MHz, 20MHz Bandwidth



5510MHz, 40MHz Bandwidth



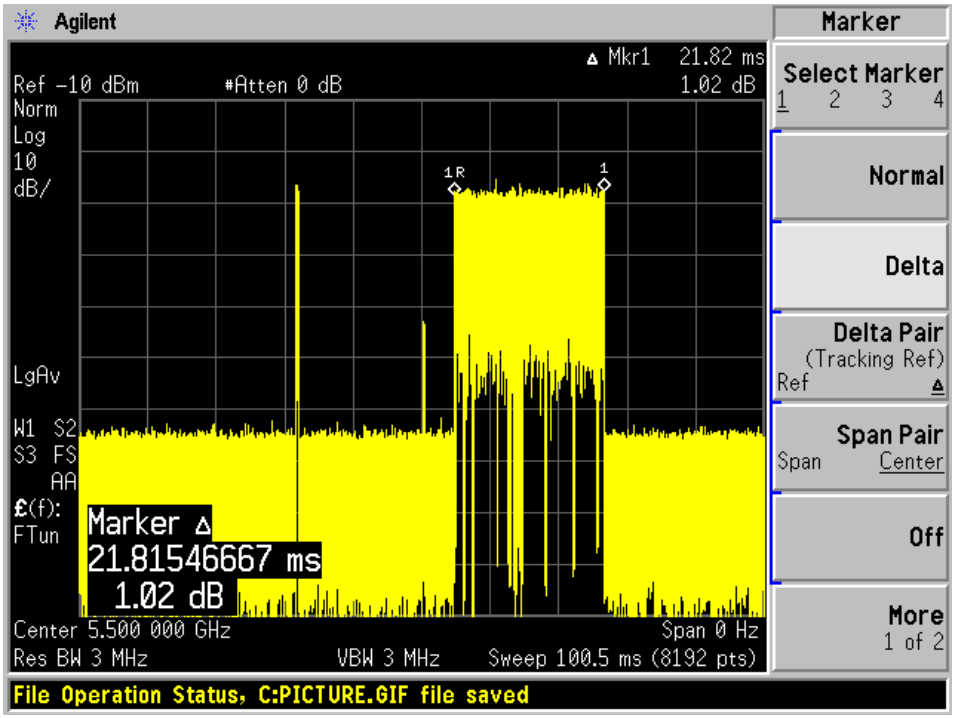
5530 MHz, 80MHz Bandwidth



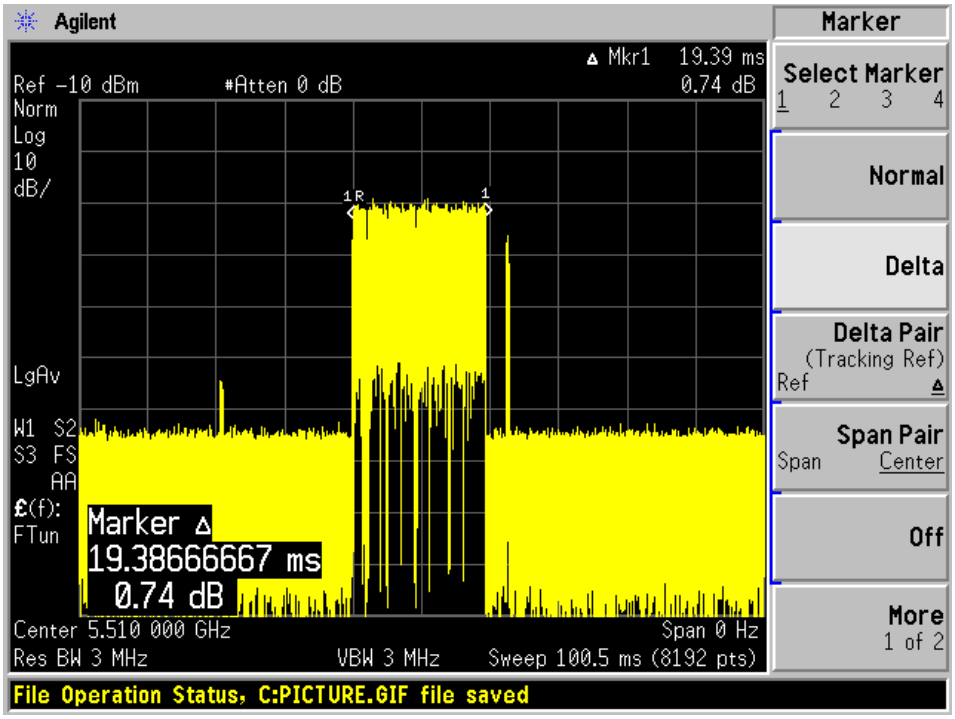
The Duty Cycle of the traffic is greater than 17%

Pine Radio

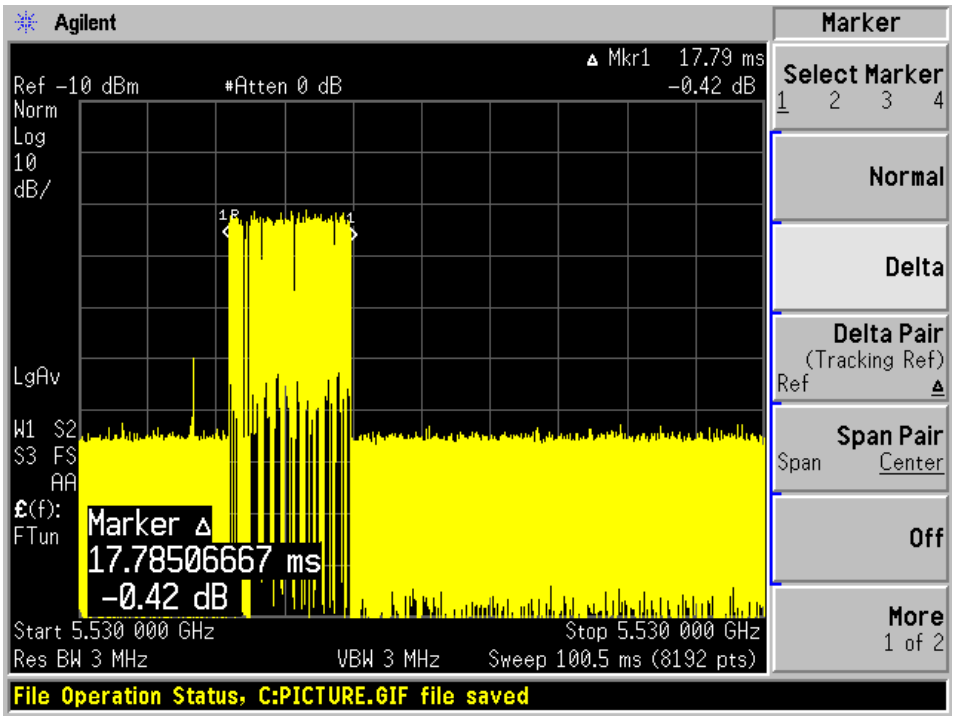
5500 MHz, 20MHz Bandwidth



5510MHz, 40MHz Bandwidth



5530 MHz, 80MHz Bandwidth

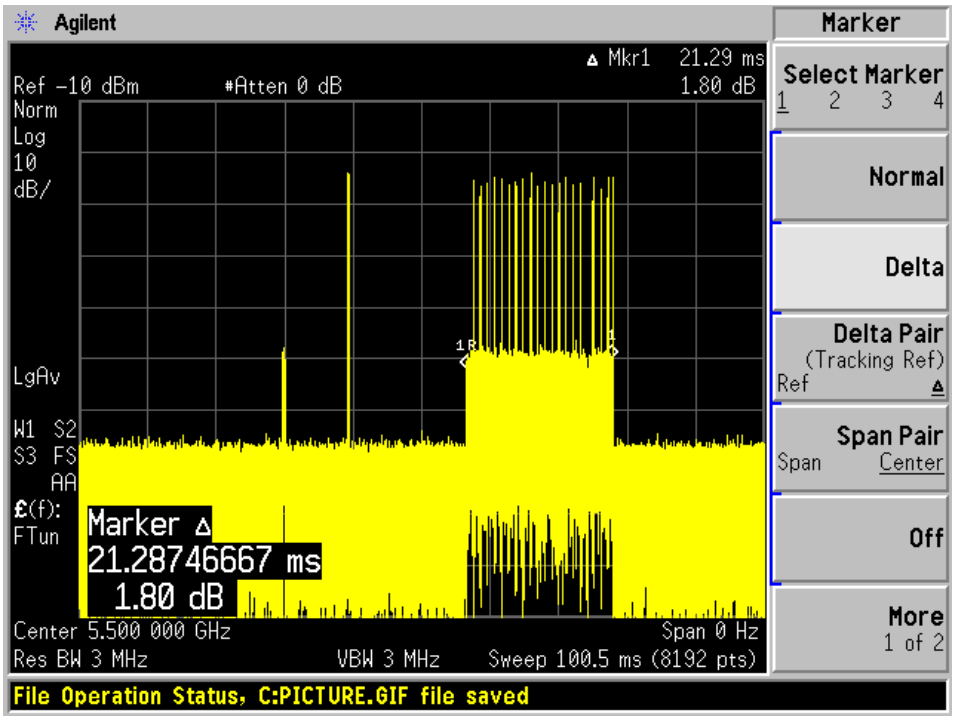


The Duty Cycle of the traffic is greater than 17%

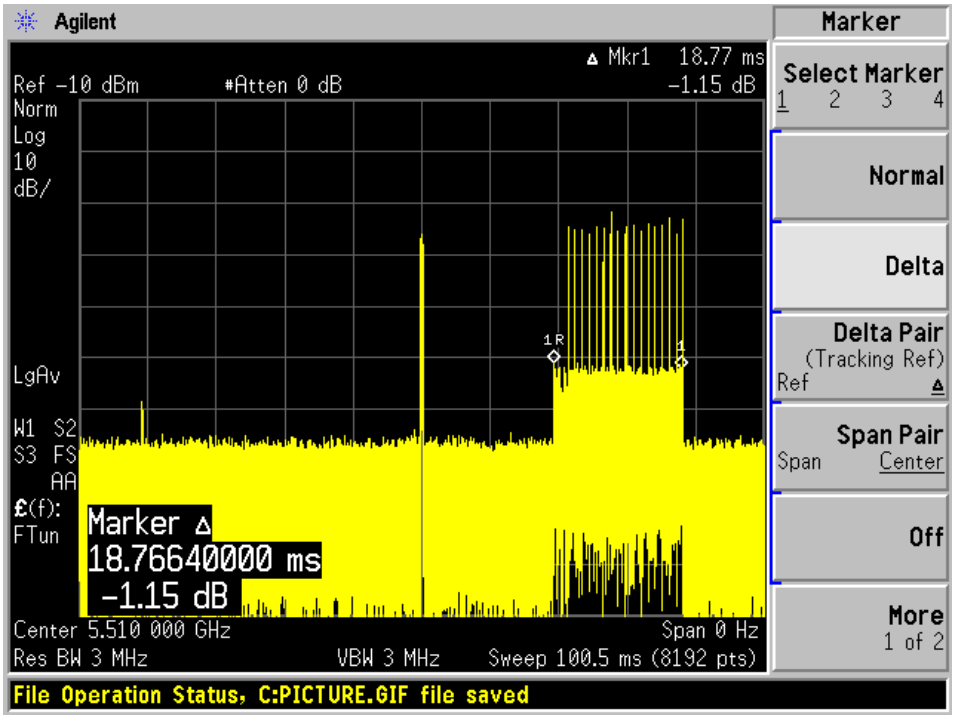
Client Mode

Cobalt Radio

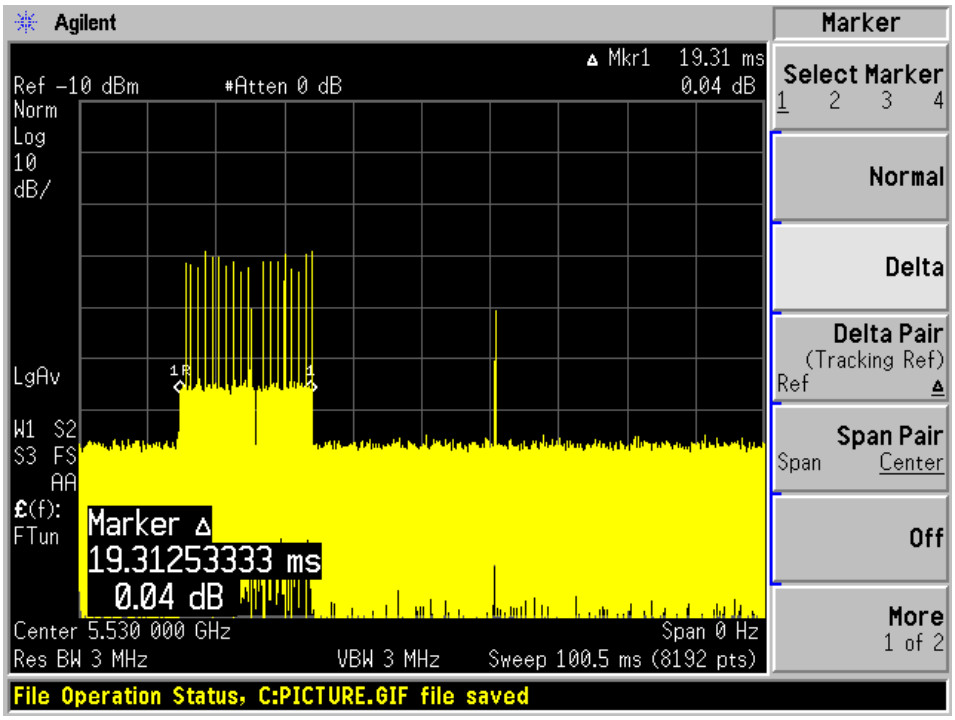
5500 MHz, 20MHz Bandwidth



5510MHz, 40MHz Bandwidth



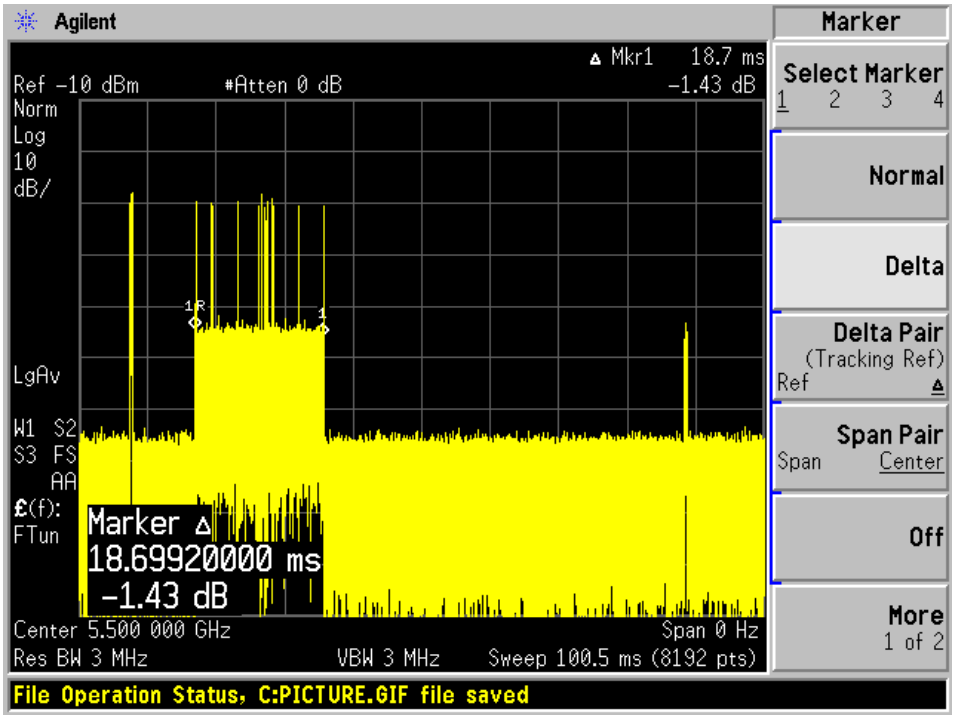
5530 MHz, 80MHz Bandwidth



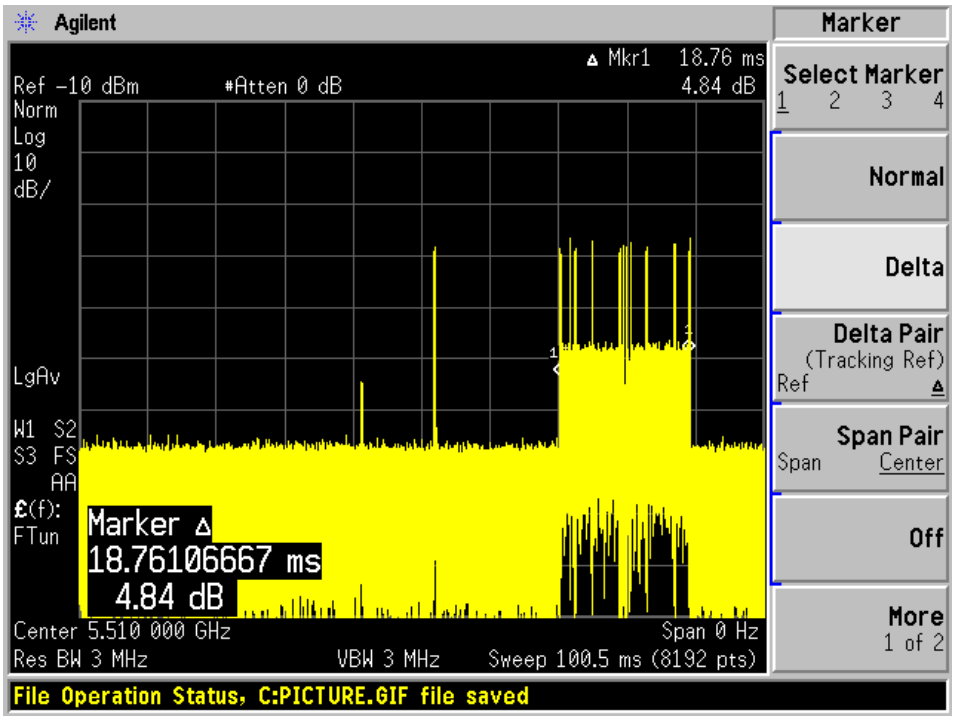
The Duty Cycle of the traffic is greater than 17%

Pine Radio

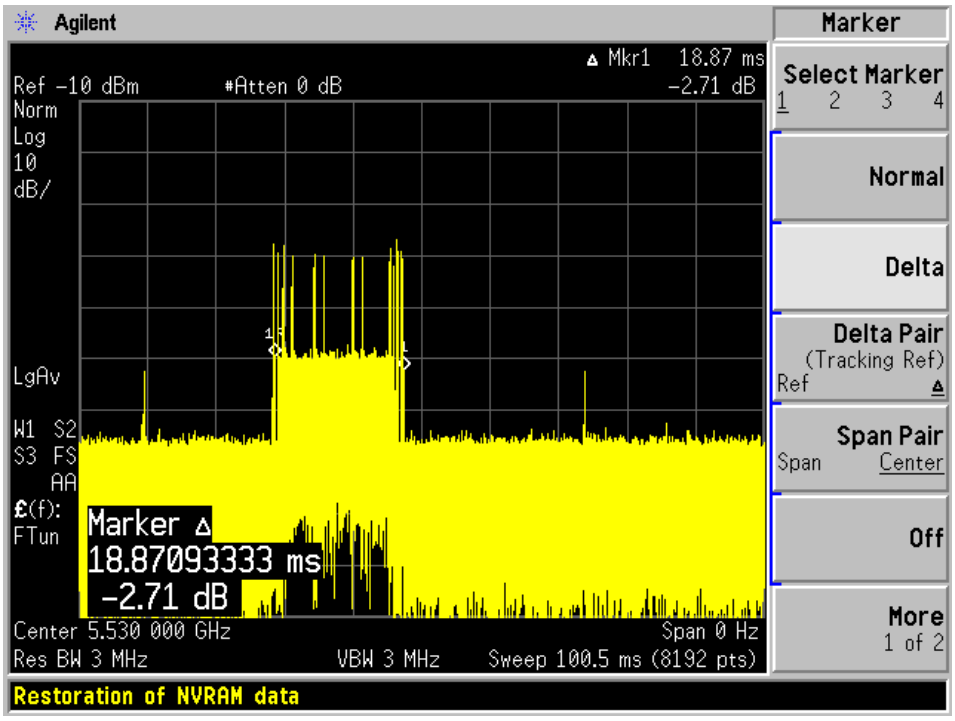
5500 MHz, 20MHz Bandwidth



5510MHz, 40MHz Bandwidth



5530 MHz, 80MHz Bandwidth

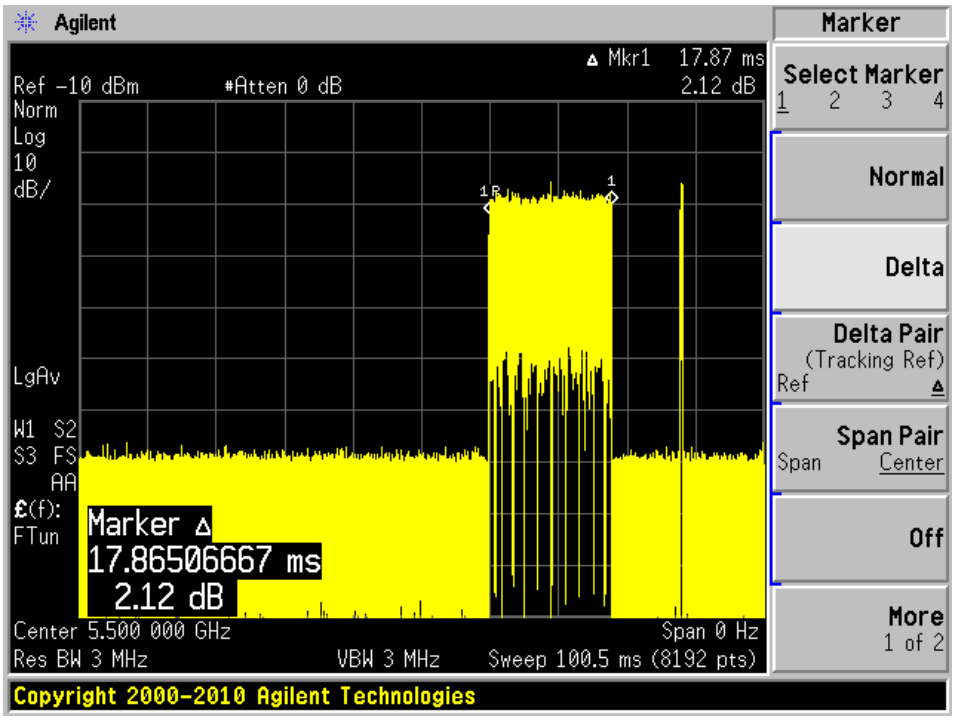


The Duty Cycle of the traffic is greater than 17%

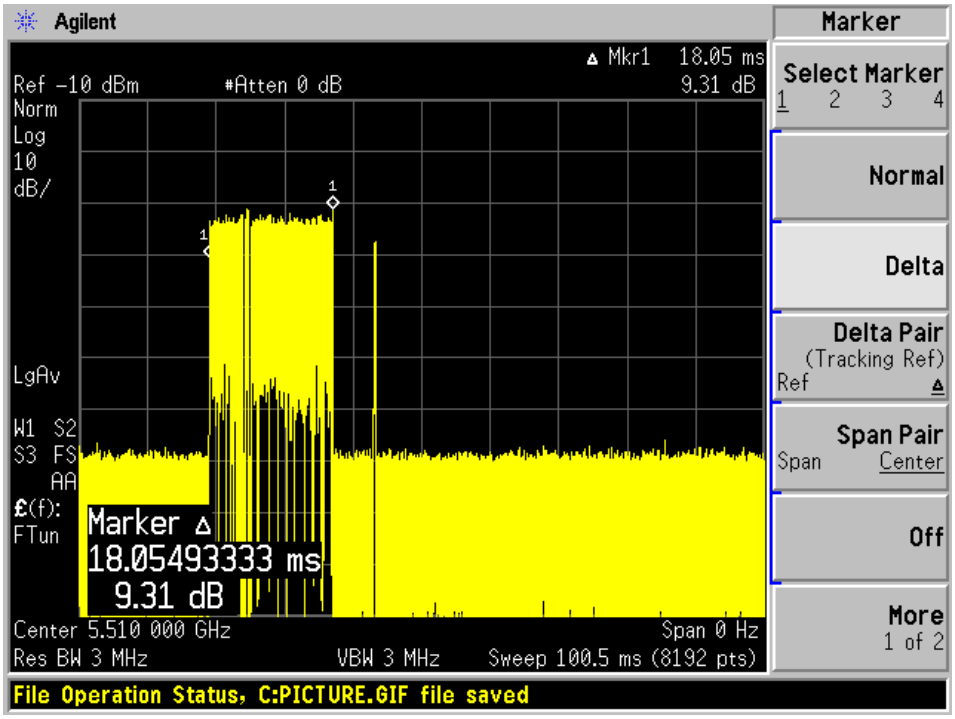
WGB Mode

Cobalt Radio

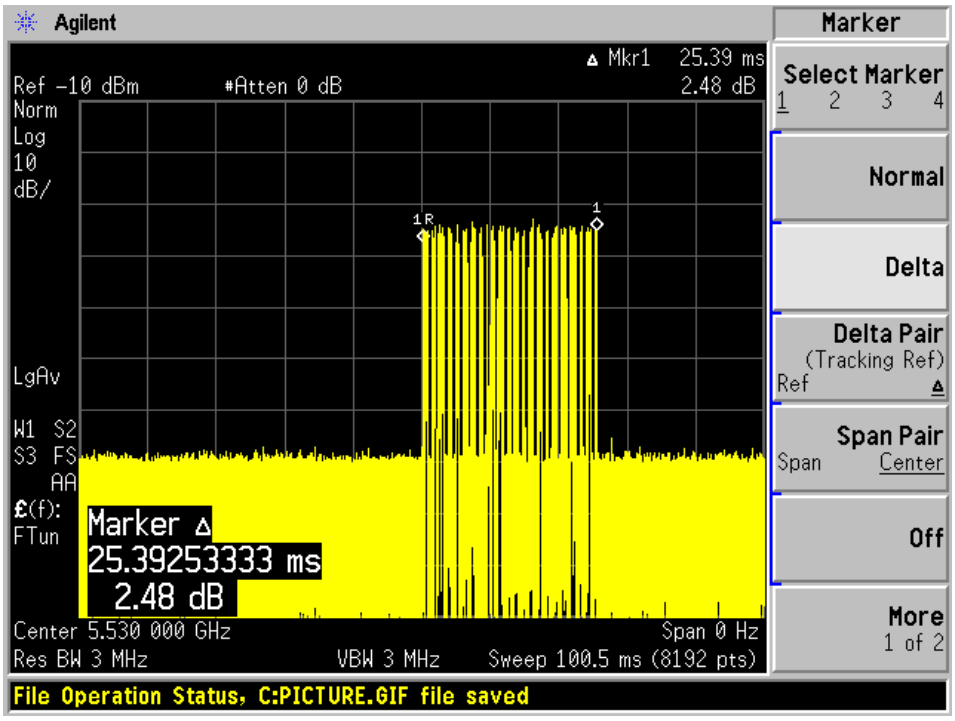
5500 MHz, 20MHz Bandwidth



5510MHz, 40MHz Bandwidth



5530 MHz, 80MHz Bandwidth



The Duty Cycle of the traffic is greater than 17%

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 *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

P2P Mode

Cobalt 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 Mode

Cobalt 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

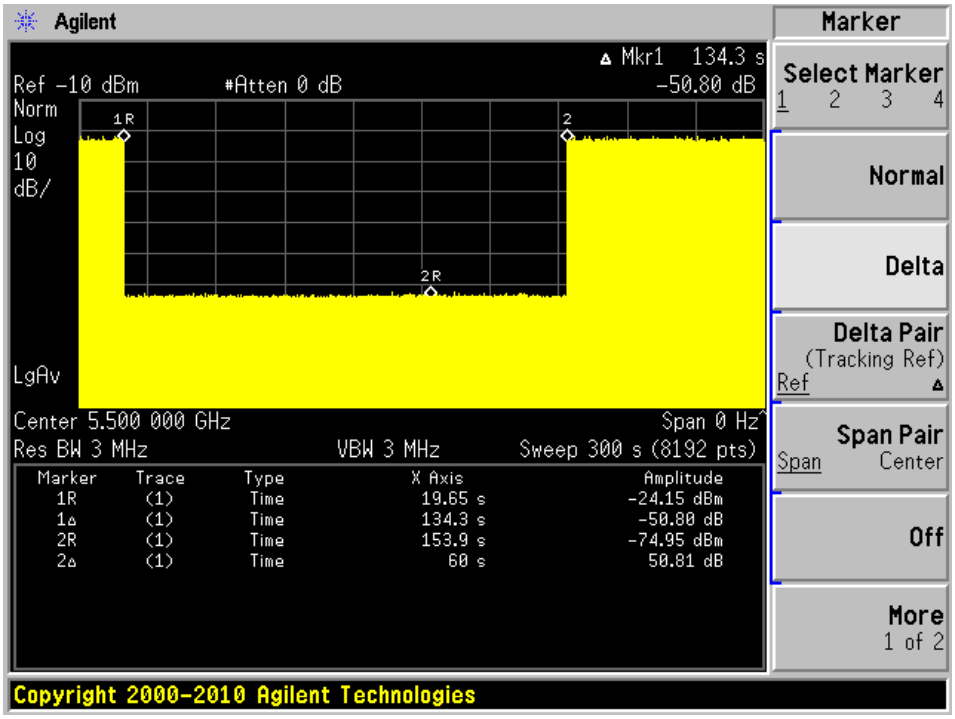
Please refer to the following plots.

P2P Mode

Cobalt Radio

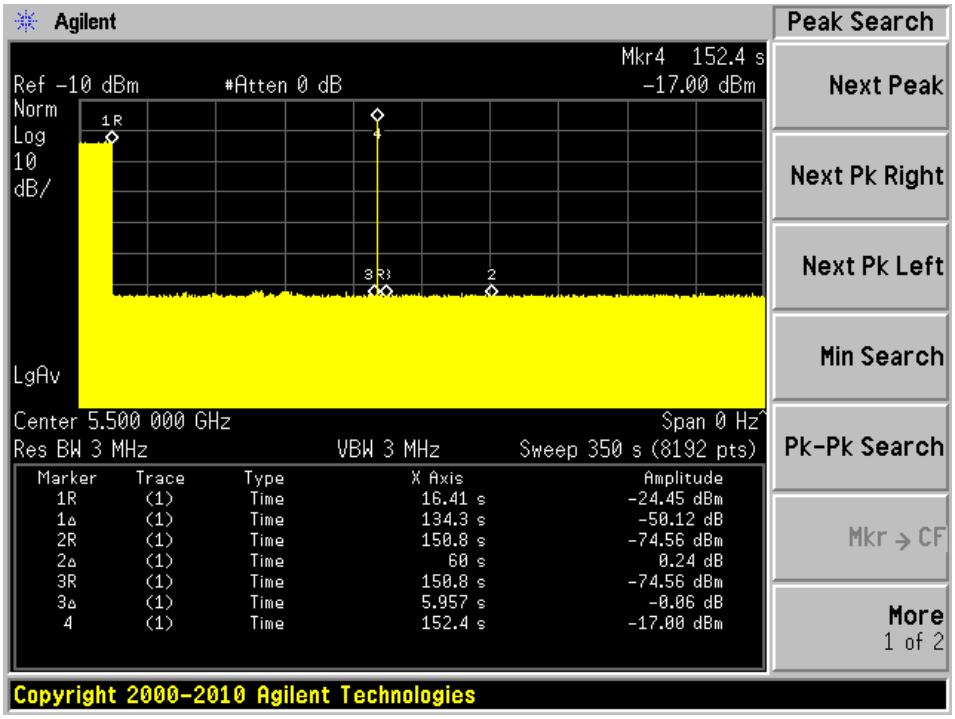
5500 MHz, 20MHz Channel Bandwidth

Plot of Power Cycle + CAC Time Period



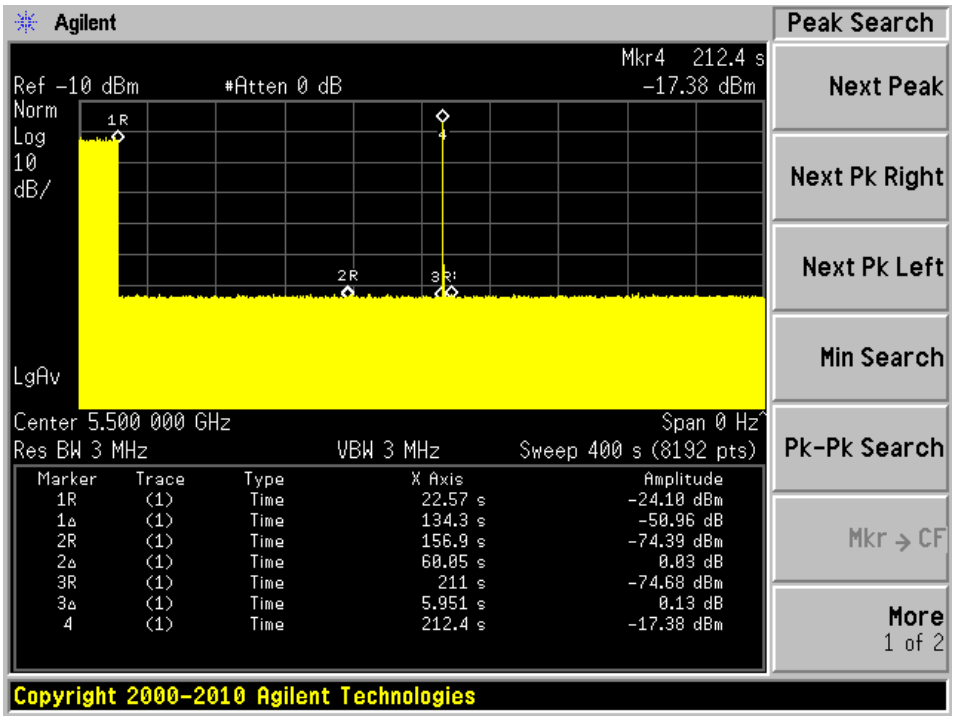
Note: Power Cycle Time was measured as 134.3 seconds.

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



No transmissions found after radar signal applied.

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



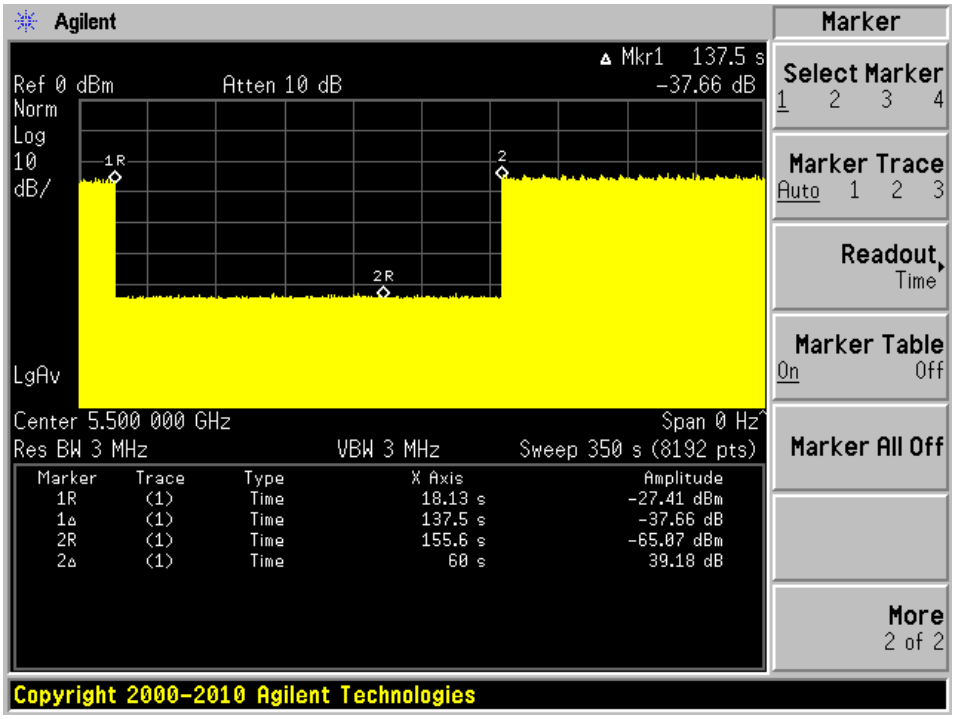
No transmissions found after radar signal applied.

P2P Mode

Pine Radio

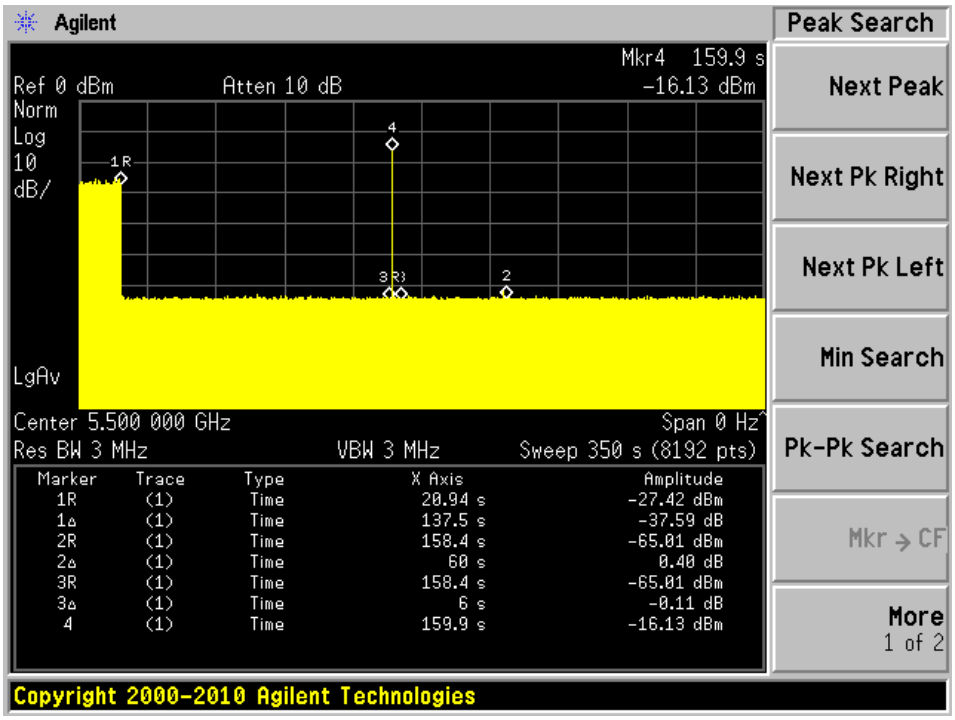
5500 MHz, 20MHz Channel Bandwidth

Plot of Power Cycle + CAC Time Period



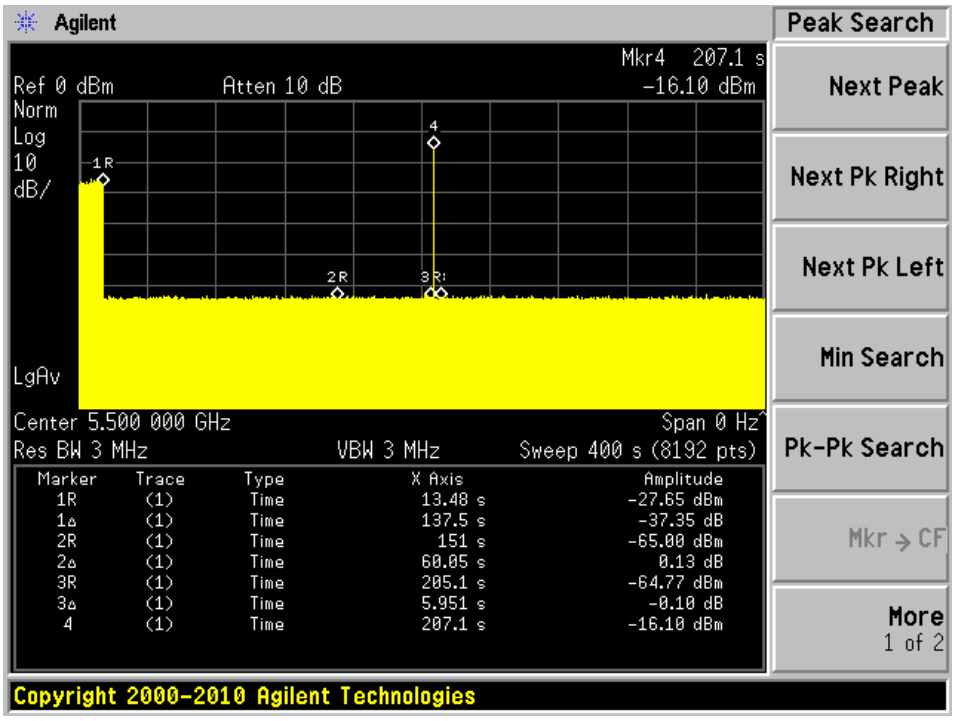
Note: Power Cycle Time was measured as 137.5 seconds.

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



No transmissions found after radar signal applied.

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



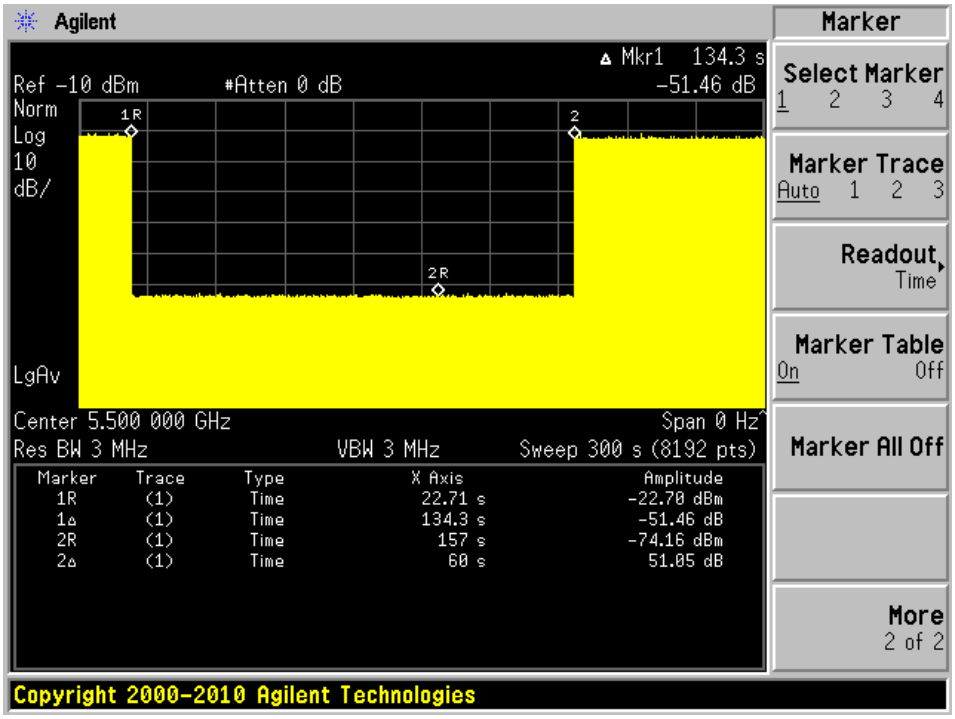
No transmissions found after radar signal applied.

P2MP Mode

Cobalt Radio

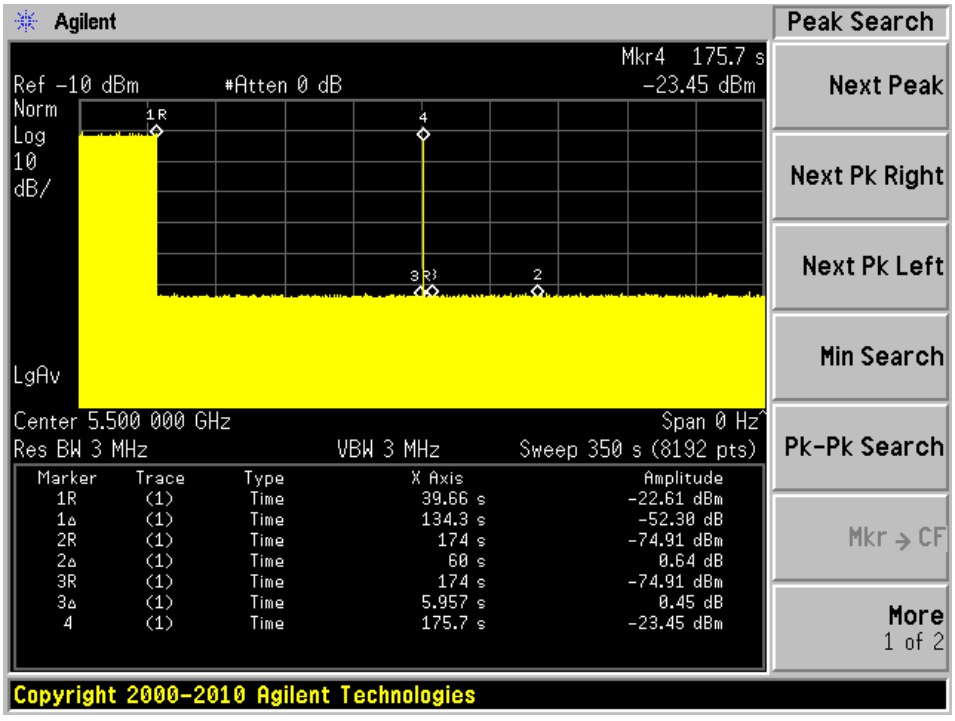
5500 MHz, 20MHz Channel Bandwidth

Plot of Power Cycle + CAC Time Period



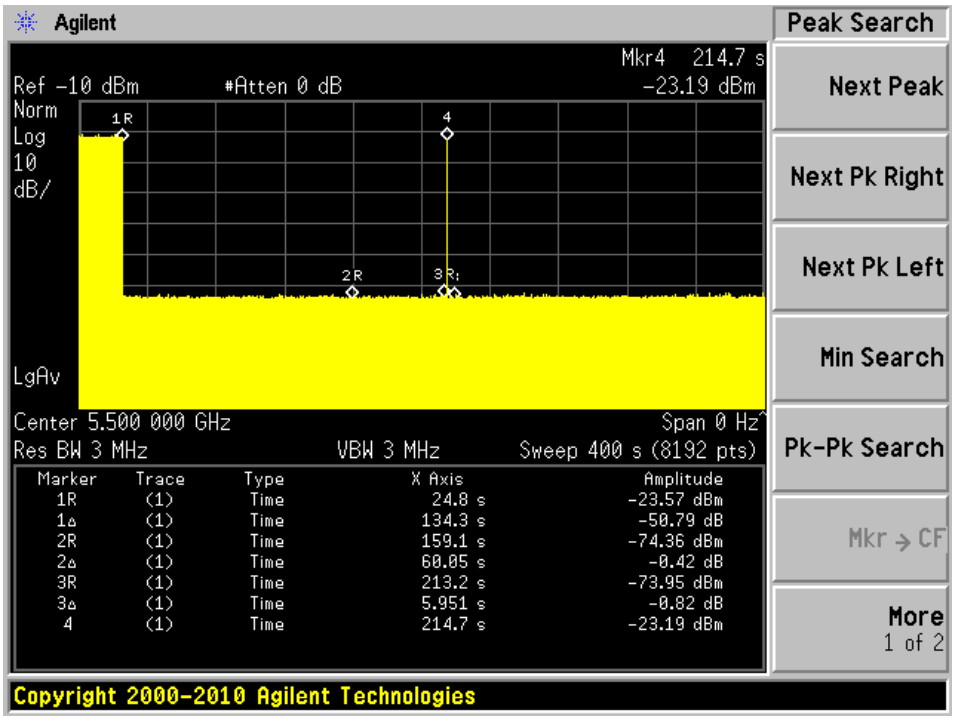
Note: Power Cycle Time was measured as 134.3 seconds.

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



No transmissions found after radar signal applied.

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

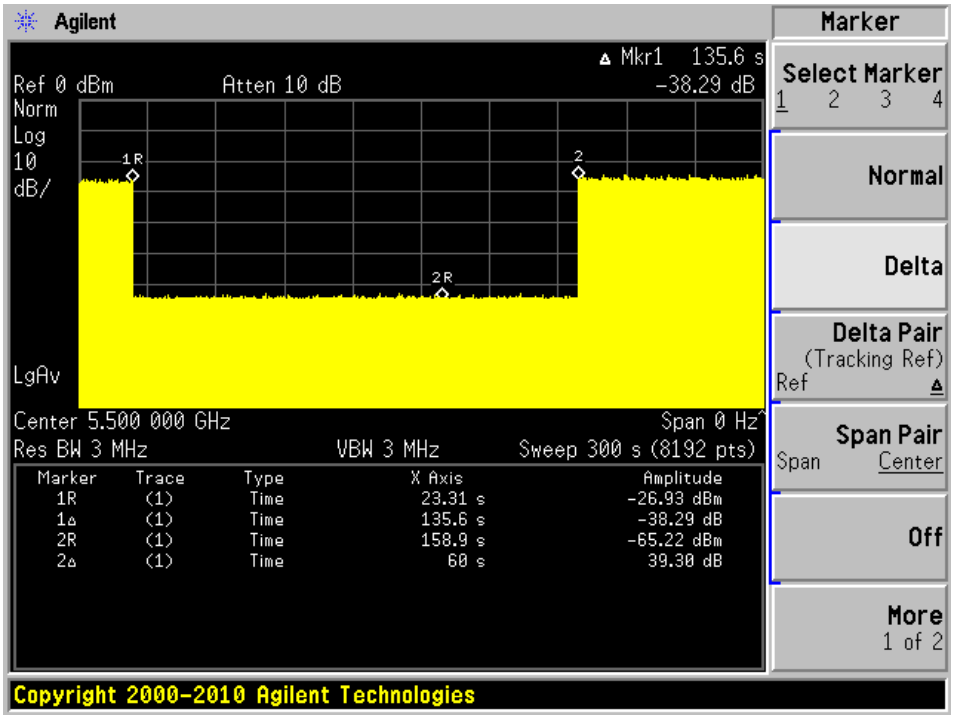


No transmissions found after radar signal applied.

Pine Radio

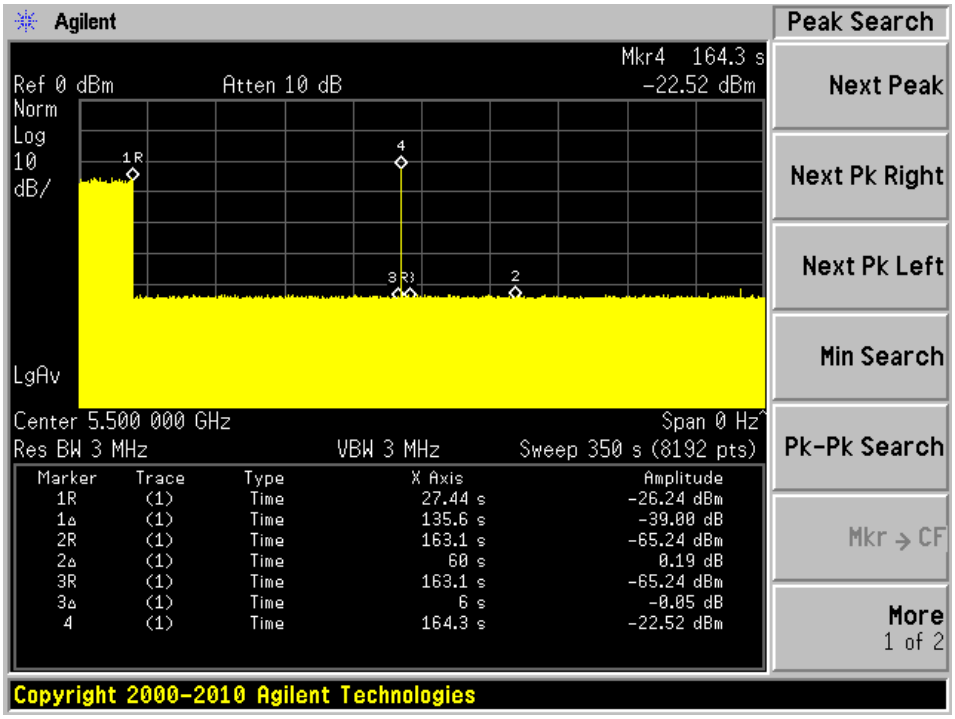
5500 MHz, 20MHz Channel Bandwidth

Plot of Power Cycle + CAC Time Period



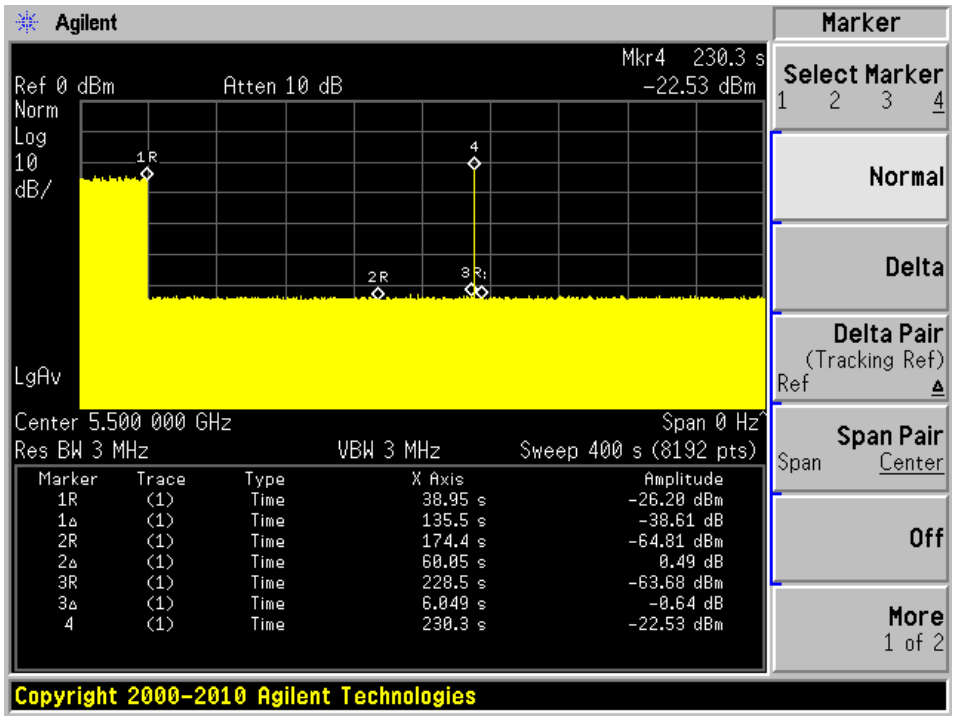
Note: Power Cycle Time was measured as 135.6 seconds.

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



No transmissions found after radar signal applied.

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



No transmissions found after radar signal applied.

7 Channel Move Time and Channel Closing Transmission Time

7.1 Test Procedure

BACL used 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

P2P Mode

Cobalt Radio

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

Pine Radio

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

PM2P Mode

Cobalt Radio

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

Pine Radio

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

Client Mode Injection at Client

Cobalt Radio

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

Pine Radio

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

Client Mode Injection at Master

Cobalt Radio

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

Pine Radio

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

Please refer to the following tables and plots.

P2P Mode

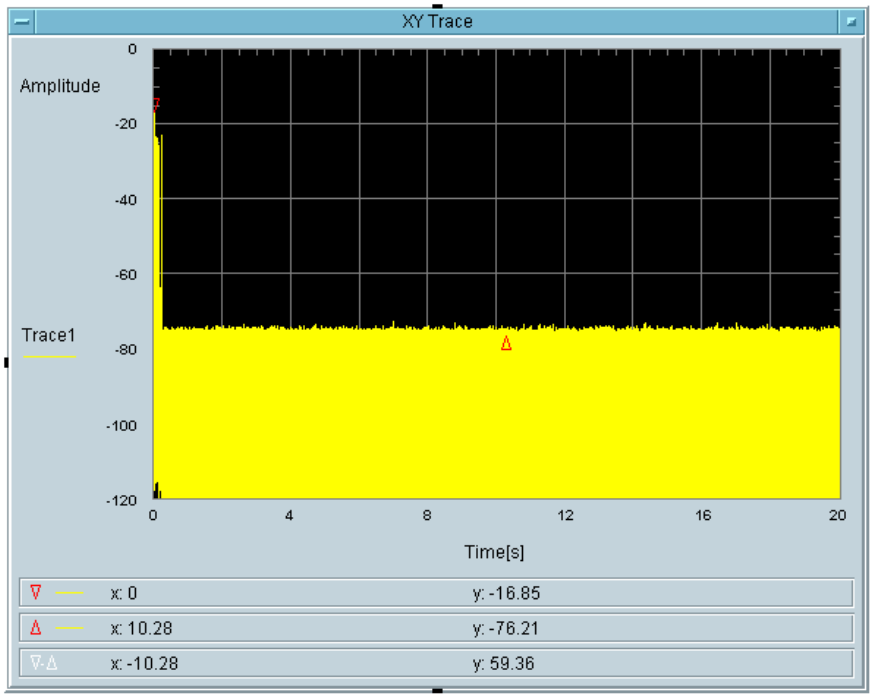
Cobalt Radio

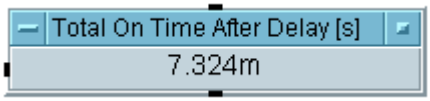
5530 MHz, Bandwidth 80 MHz

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

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

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





P2P Mode

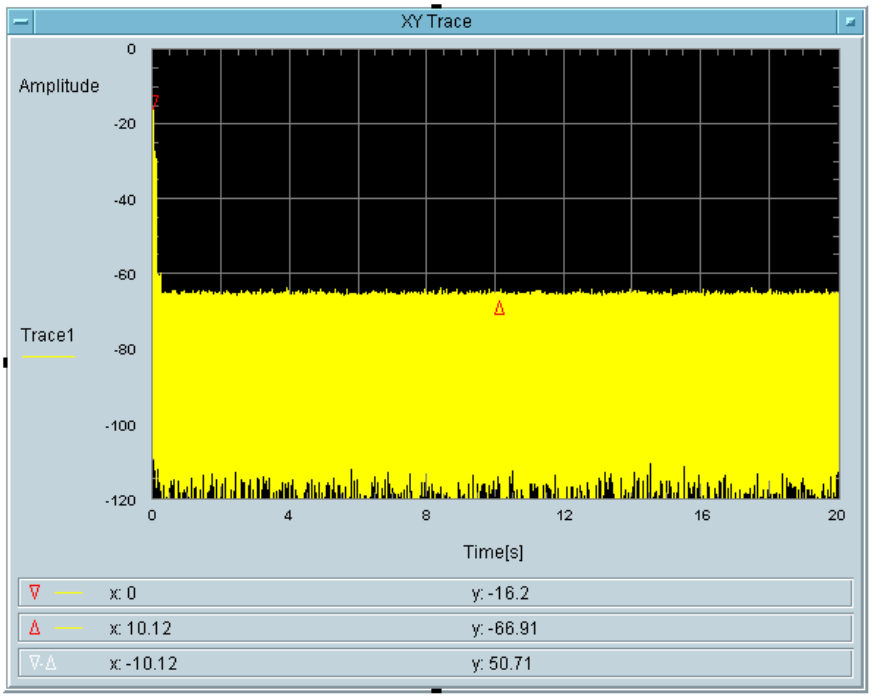
Pine Radio

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
102.5+2.441	200+60	Pass

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



P2MP Mode

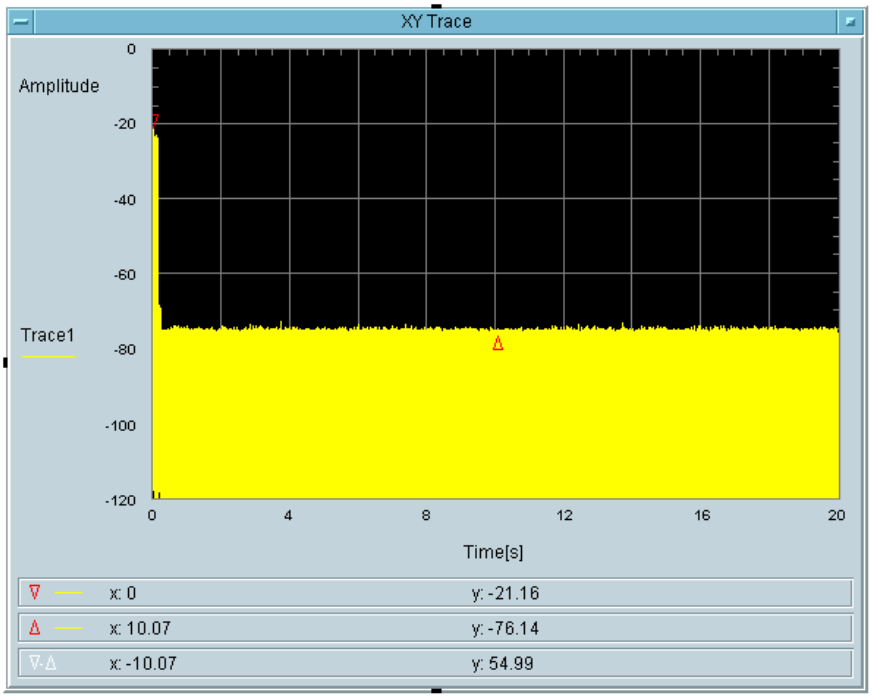
Cobalt Radio

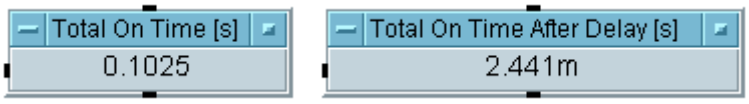
5530 MHz, Bandwidth 80 MHz

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

Channel closing transmitting time (ms)	Limit (ms)	Result
102.5+2.441	200+60	Pass

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





P2MP Mode

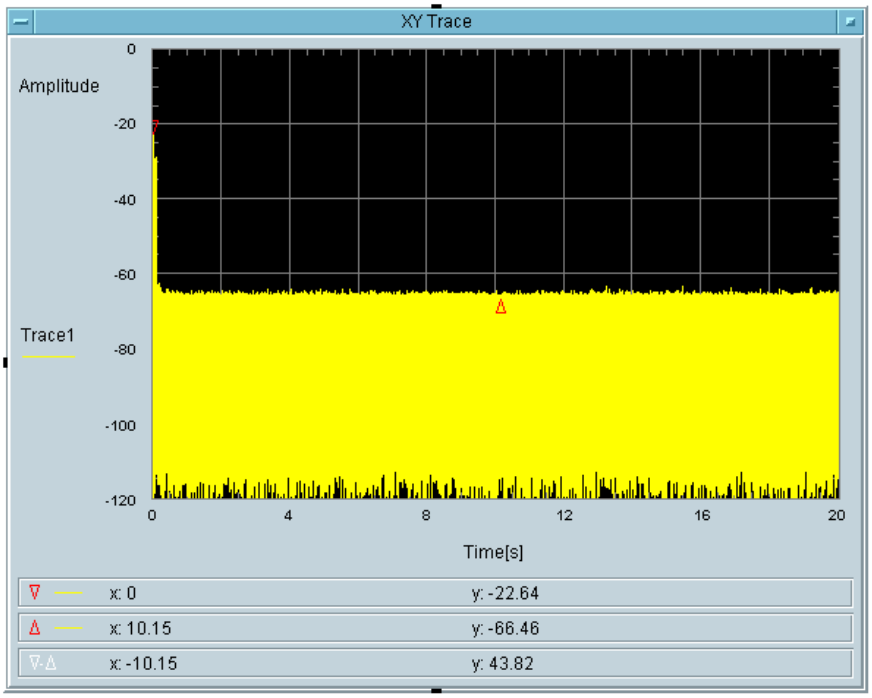
Pine Radio

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
41.5+0	200+60	Pass

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



Client Mode Injection at Client

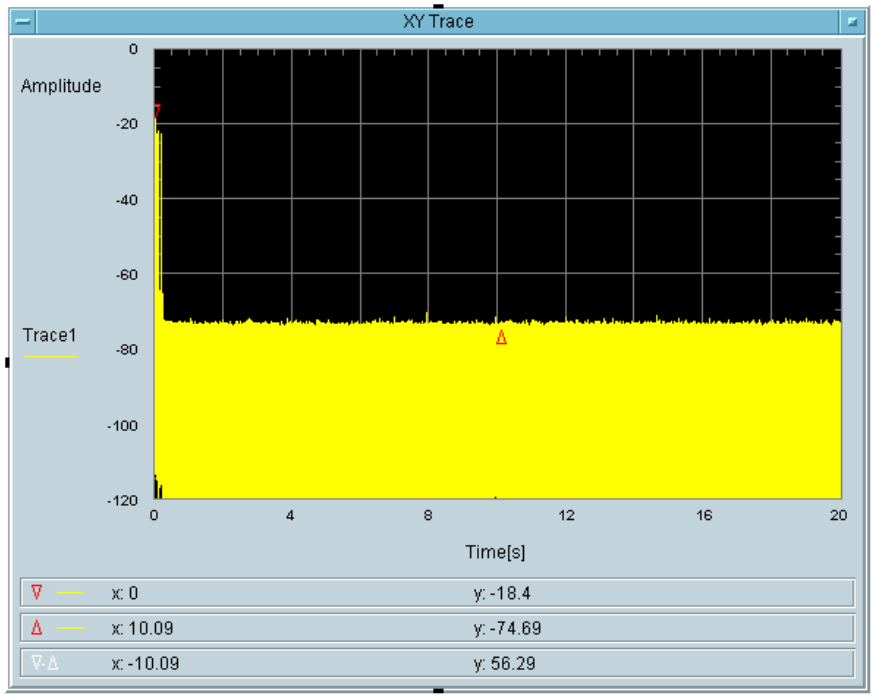
Cobalt Radio

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
102.5+2.441	200+60	Pass

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



Client Mode Injection at Client

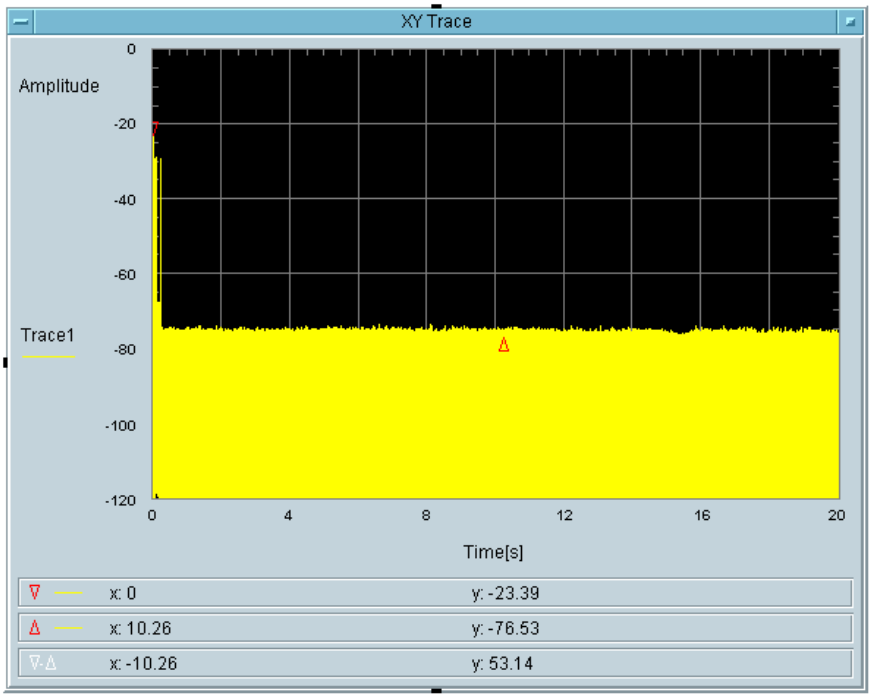
Pine Radio

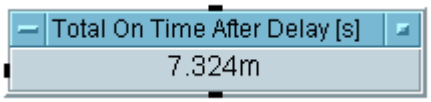
5530 MHz, Bandwidth 80 MHz

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

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

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





Client Mode Injection at Master

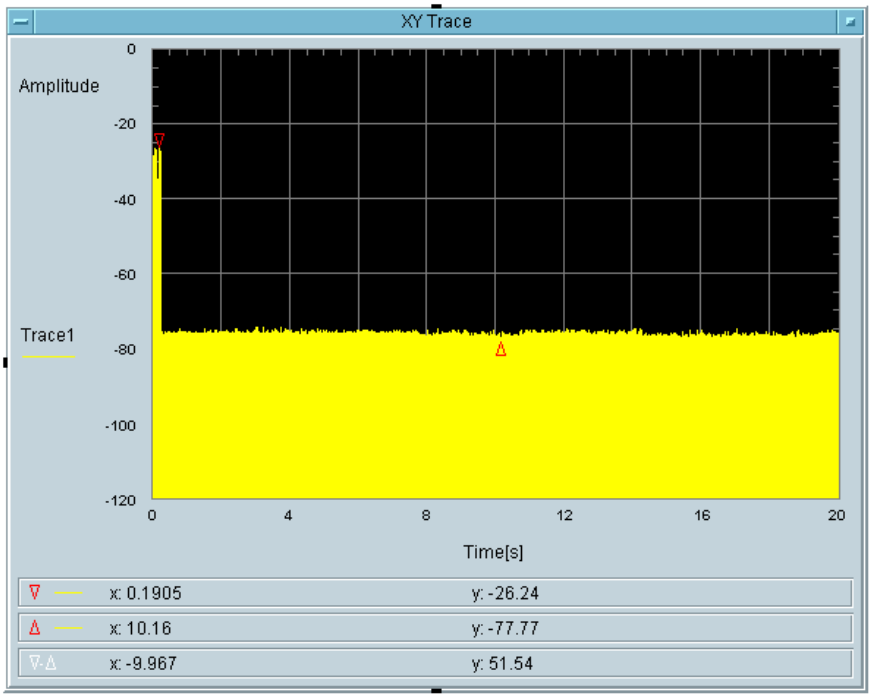
Cobalt Radio

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
102.5+2.441	200+60	Pass

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



Client Mode Injection at Master

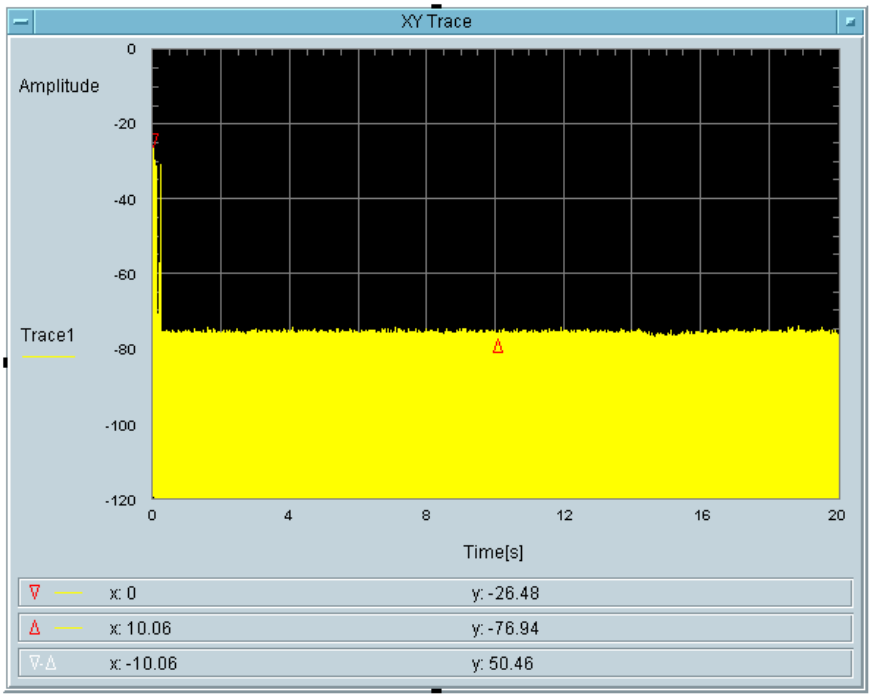
Pine Radio

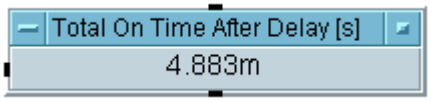
5530 MHz, Bandwidth 80 MHz

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

Channel closing transmitting time (ms)	Limit (ms)	Result
100.1+4.883	200+60	Pass

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





8 Non-Occupancy Period

8.1 Test Procedure

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

8.2 Test Results

P2P Mode

Cobalt Radio

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

Pine Radio

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

P2MP Mode

Cobalt Radio

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

Pine Radio

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

Client Mode Injection at Client

Cobalt Radio

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

Pine Radio

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

Client Mode Injection at Master

Cobalt Radio

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

Pine Radio

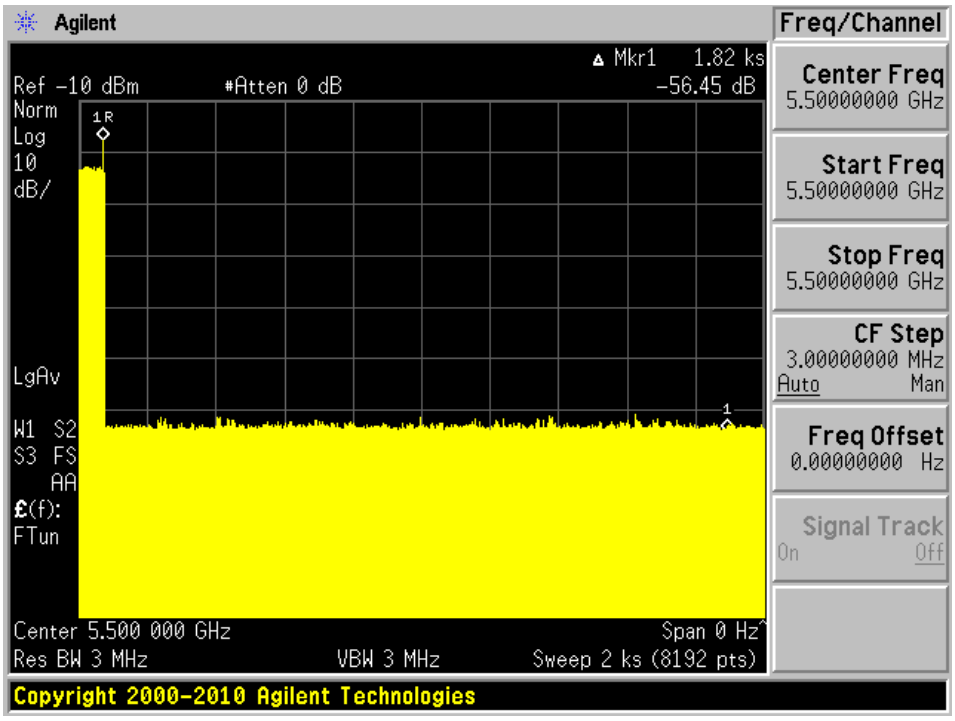
Frequency (MHz)	Bandwidth (MHz)	Spectrum Analyzer Display
5530	80	No transmission within 30 minutes

Note: 5500 MHz was the primary channel that contains control signal. Therefore, 5500 MHz was monitored during the test.
Please refer to the following plots.

P2P Mode

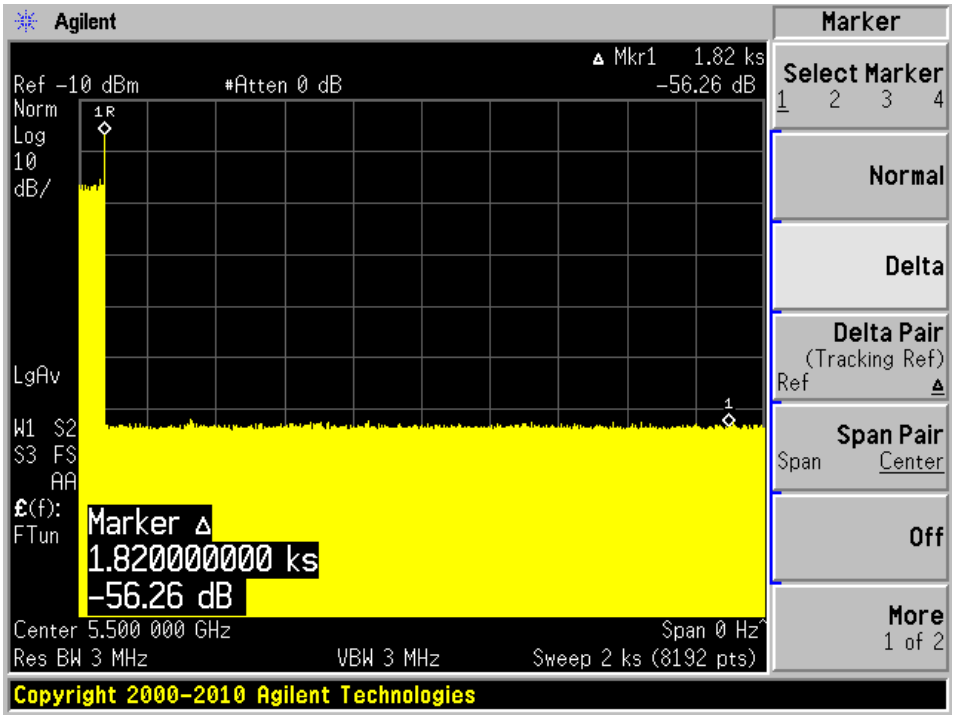
Cobalt Radio

5530 MHz, Bandwidth 80 MHz



Pine Radio

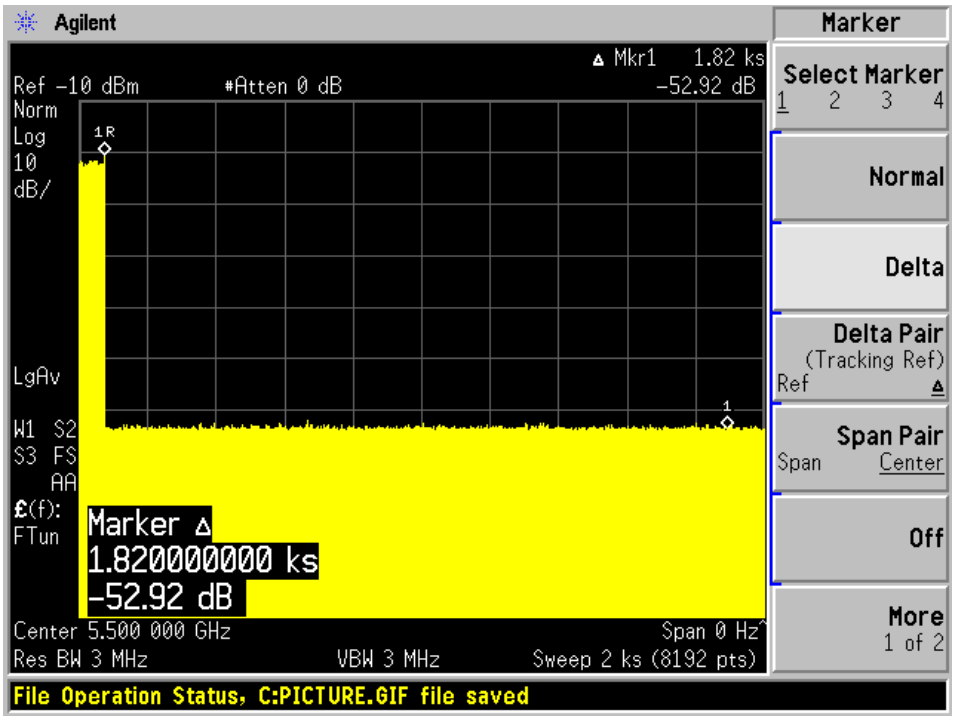
5530 MHz, Bandwidth 80 MHz



P2MP Mode

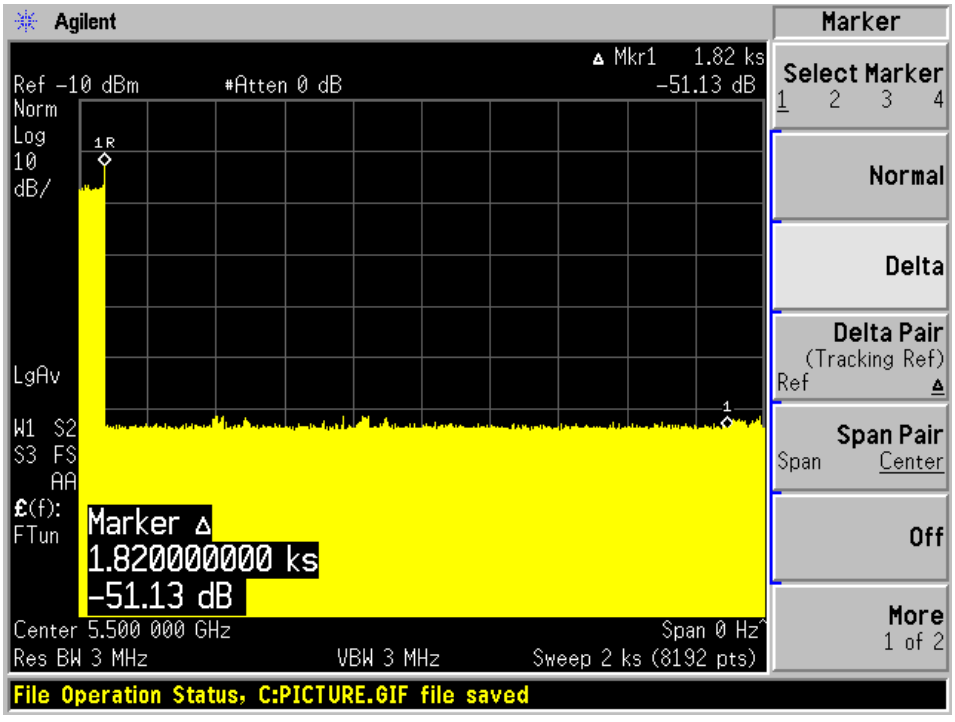
Cobalt Radio

5530 MHz, Bandwidth 80 MHz



Pine Radio

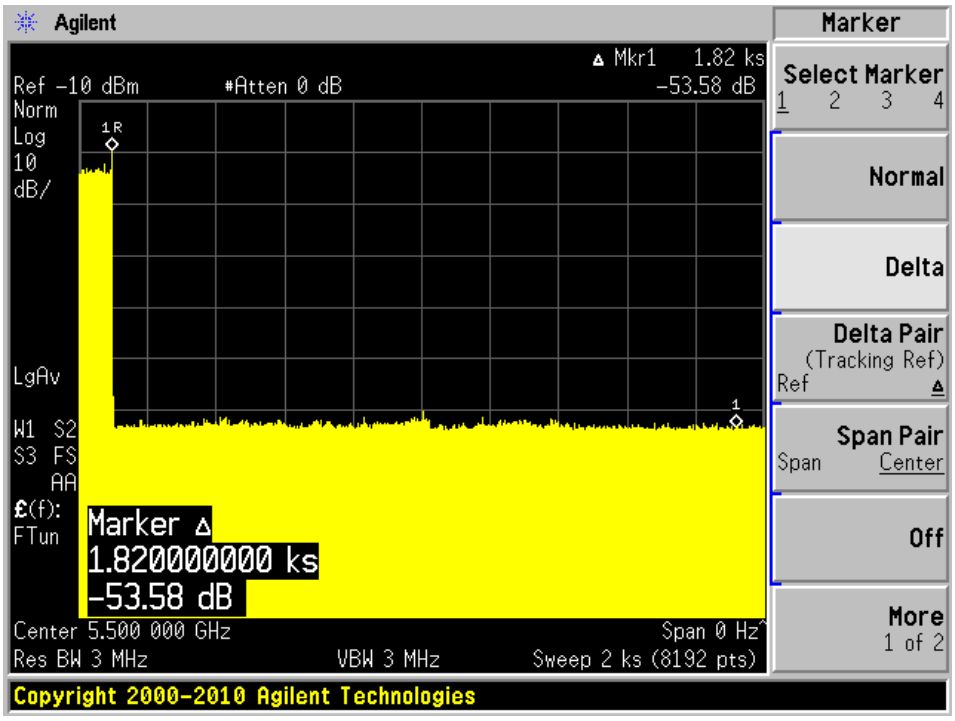
5530 MHz, Bandwidth 80 MHz



Client Mode Injection at Client

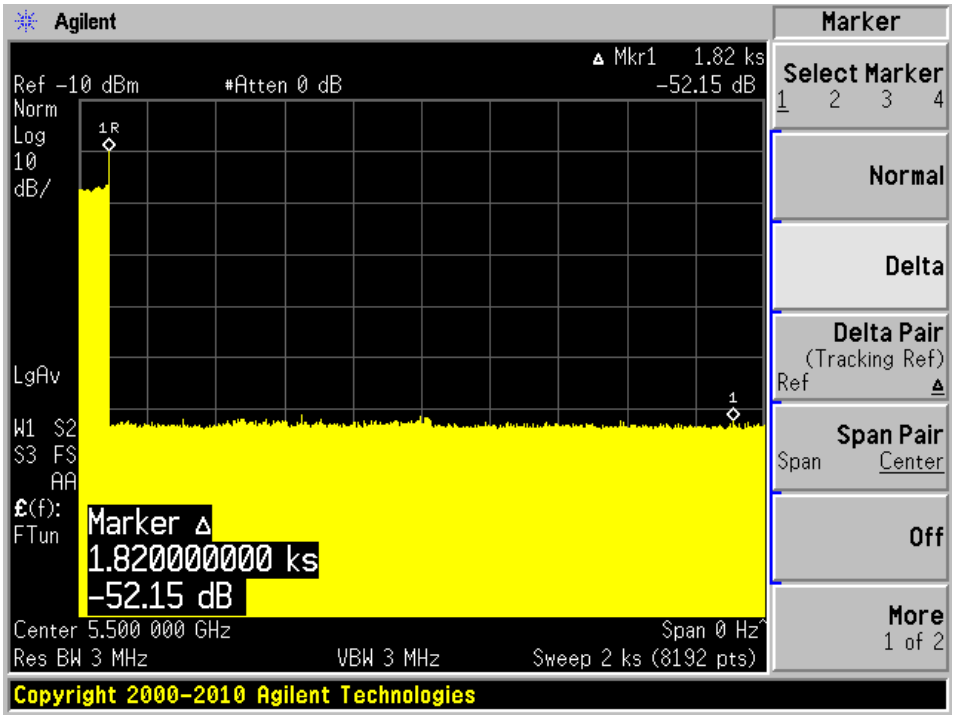
Cobalt Radio

5530 MHz, Bandwidth 80 MHz



Pine Radio

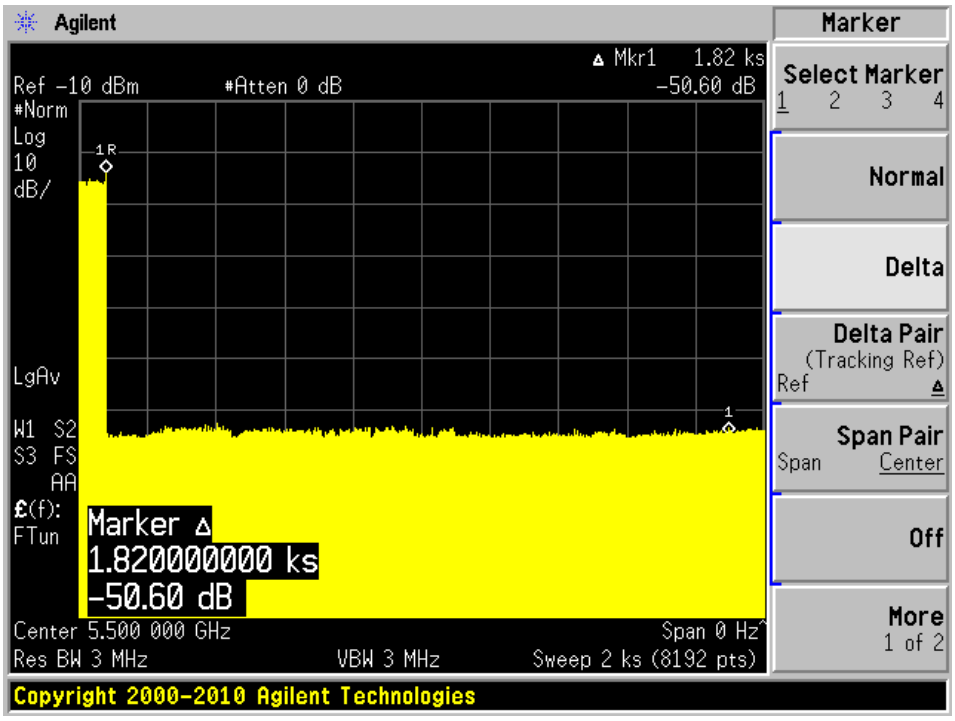
5530 MHz, Bandwidth 80 MHz



Client Mode Injection at Master

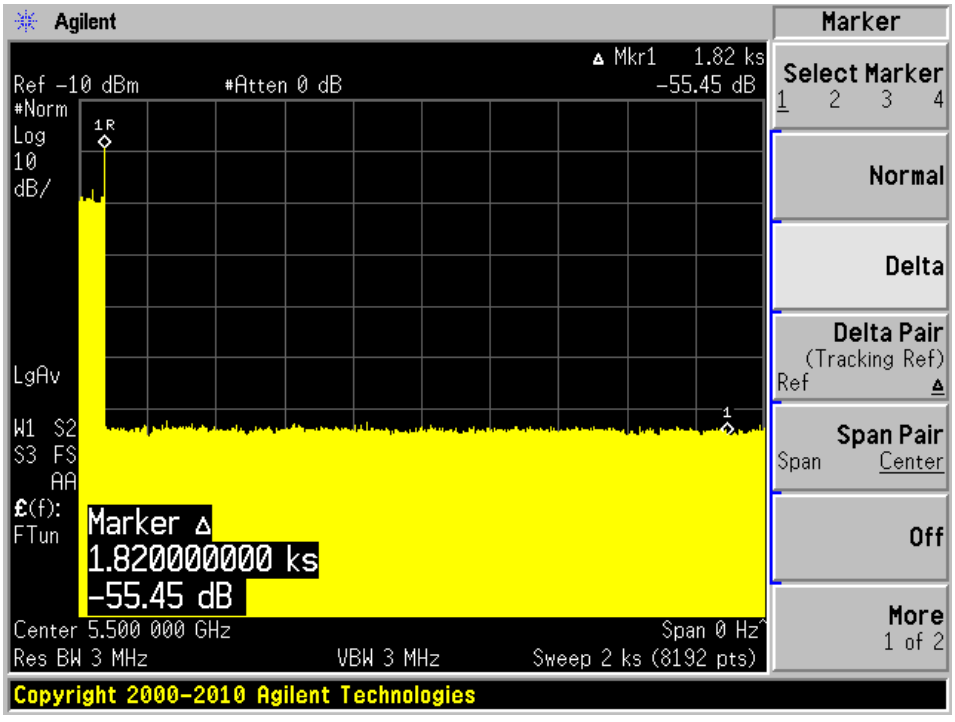
Cobalt Radio

5530 MHz, Bandwidth 80 MHz



Pine Radio

5530 MHz, Bandwidth 80 MHz



9 Radar Detection Bandwidth & Radar Detection Performance Check

9.1 Detection Bandwidth

Procedure:

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

Starting at the center frequency of the EUT 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 EUT 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

P2P Mode

Cobalt 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

P2MP Mode

Cobalt 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

Client Mode

Cobalt 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

Results of Detection Bandwidth:

P2P Mode
Cobalt 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(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5505	1	1	1	1	1	1	1	1	1	1	100 %
5510(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 = 19.0 MHz; x 100% = 19.0 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(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5515	1	1	1	1	1	1	1	1	1	1	100 %
5520	1	1	1	1	1	1	1	1	1	1	100 %
5525	1	1	1	1	1	1	1	1	1	1	100 %
5530(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
Detection Bandwidth = $F_H - F_L$=5530-5490=40 MHz											
EUT 99% OBW =38.0 MHz; x 100% =38.0 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 =77.6 MHz; x 100% =77.6 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(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5505	1	1	1	1	1	1	1	1	1	1	100 %
5510(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 =19.0 MHz; x 100% =19.0 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(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5515	1	1	1	1	1	1	1	1	1	1	100 %
5520	1	1	1	1	1	1	1	1	1	1	100 %
5525	1	1	1	1	1	1	1	1	1	1	100 %
5530(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
Detection Bandwidth = $F_H - F_L$=5530-5490=40 MHz											
EUT 99% OBW =37.7 MHz; x 100% =37.7 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 =77.3 MHz; x 100% =77.3 MHz **Result:** Pass											

P2MP Mode
Cobalt 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(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5505	1	1	1	1	1	1	1	1	1	1	100 %
5510(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 =19.0 MHz; x 100% = 19.0 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(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5515	1	1	1	1	1	1	1	1	1	1	100 %
5520	1	1	1	1	1	1	1	1	1	1	100 %
5525	1	1	1	1	1	1	1	1	1	1	100 %
5530(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
Detection Bandwidth = $F_H - F_L$=5530-5490=40 MHz											
EUT 99% OBW =37.9 MHz; x 100% =37.9 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 = 78.2 MHz; x 100% = 78.2 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(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5505	1	1	1	1	1	1	1	1	1	1	100 %
5510(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 =19.0 MHz; x 100% =19.0 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(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5515	1	1	1	1	1	1	1	1	1	1	100 %
5520	1	1	1	1	1	1	1	1	1	1	100 %
5525	1	1	1	1	1	1	1	1	1	1	100 %
5530(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
Detection Bandwidth = $F_H - F_L$=5530-5490=40 MHz											
EUT 99% OBW =37.8 MHz; x 100% =37.8 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 %
5569(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5570	1	1	1	1	1	1	1	1	1	1	100 %
Detection Bandwidth = $F_H - F_L$=5570-5490=80 MHz											
EUT 99% OBW =77.5 MHz; x 100% =77.5 MHz **Result:** Pass											

Client Mode
Cobalt 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(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5505	1	1	1	1	1	1	1	1	1	1	100 %
5510(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 =16.1 MHz; x 100% =16.1 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(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5515	1	1	1	1	1	1	1	1	1	1	100 %
5520	1	1	1	1	1	1	1	1	1	1	100 %
5525	1	1	1	1	1	1	1	1	1	1	100 %
5530(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
Detection Bandwidth = $F_H - F_L$=5530-5490=40 MHz											
EUT 99% OBW =36.5 MHz; x 100% =36.5 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 =76.1 MHz; x 100% =76.1 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(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5505	1	1	1	1	1	1	1	1	1	1	100 %
5510(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 = 17.3 MHz; x 100% = 17.3 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(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5515	1	1	1	1	1	1	1	1	1	1	100 %
5520	1	1	1	1	1	1	1	1	1	1	100 %
5525	1	1	1	1	1	1	1	1	1	1	100 %
5530(F_H)	1	0	1	1	1	1	1	1	1	1	90 %
Detection Bandwidth = $F_H - F_L$=5530-5490=40 MHz											
EUT 99% OBW = 36.6 MHz; x 100% = 36.6 MHz **Result:** Pass											

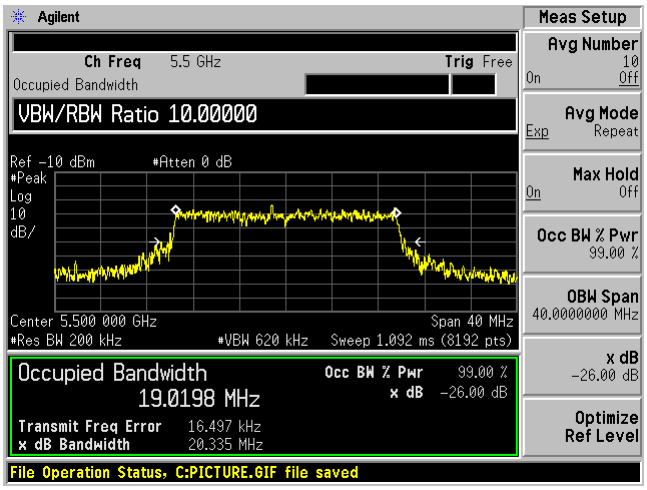
EUT Frequency = 5530 MHz											
DFS Detection Trials (1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5490(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5495	1	1	1	1	1	1	1	1	1	1	100 %
5500	1	1	1	1	1	1	1	1	1	1	100 %
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 %
5569(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5570	1	1	1	1	1	1	1	1	1	1	100 %
Detection Bandwidth = $F_H - F_L$=5570-5490=80 MHz											
EUT 99% OBW = 77.4 MHz; x 100% = 77.4 MHz **Result:** Pass											

OBW Measurement

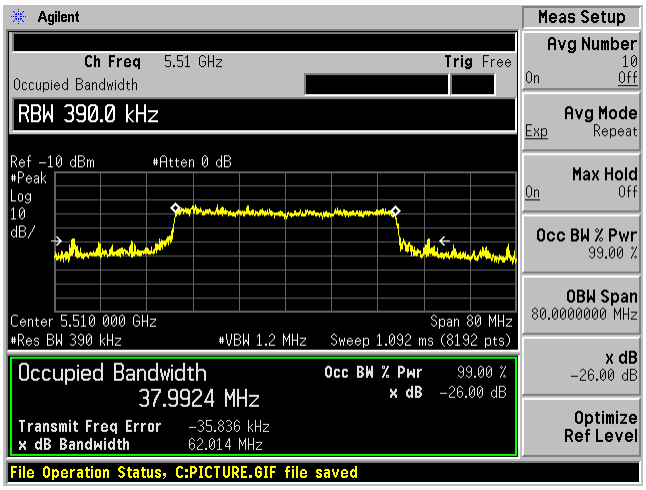
P2P Mode

Cobalt Radio

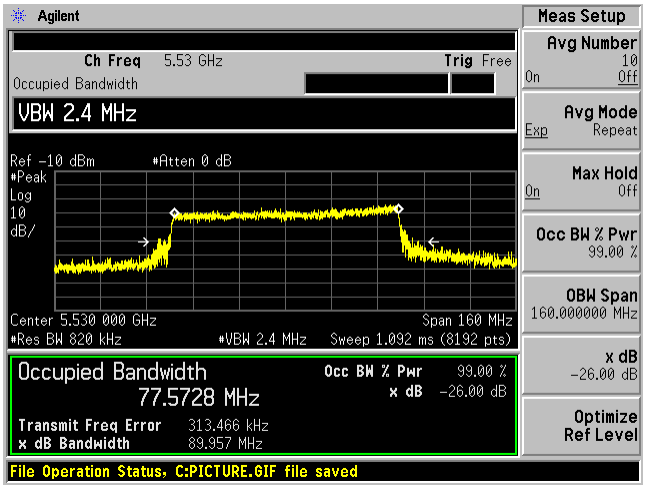
20 MHz



40 MHz

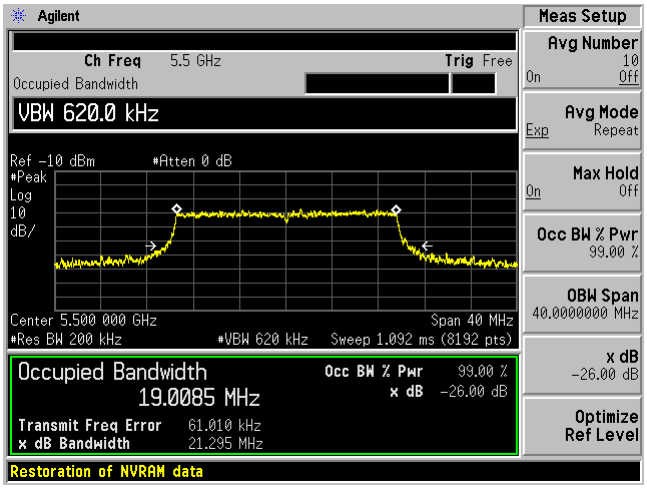


80 MHz

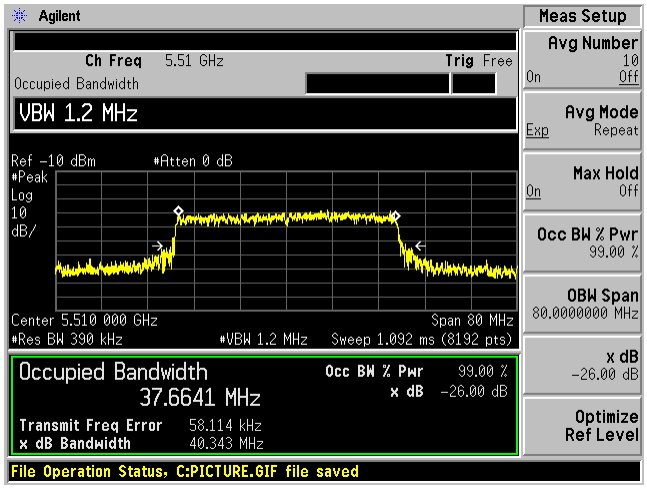


Pine Radio

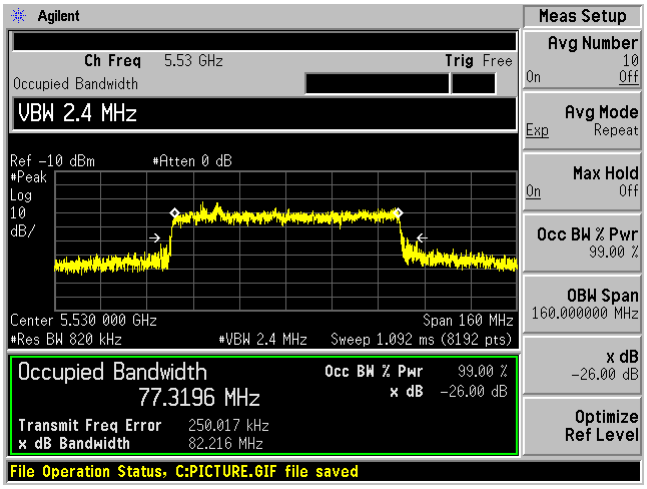
20 MHz



40 MHz



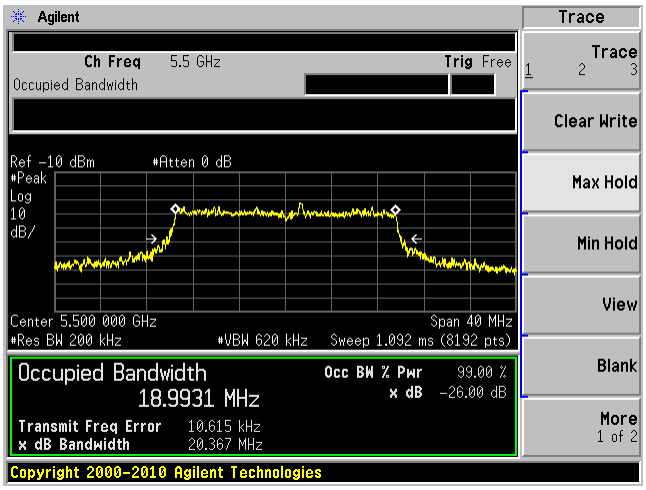
80 MHz



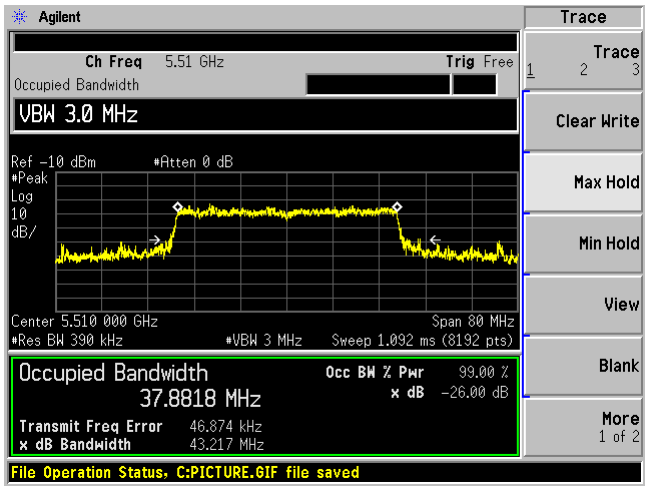
P2MP Mode

Cobalt Radio

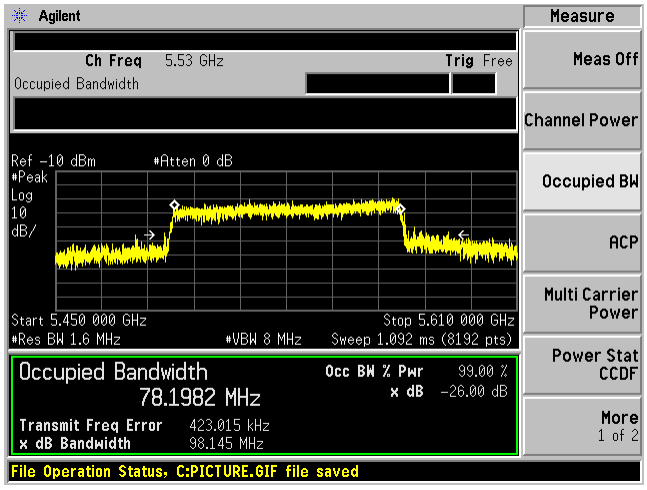
20 MHz



40 MHz

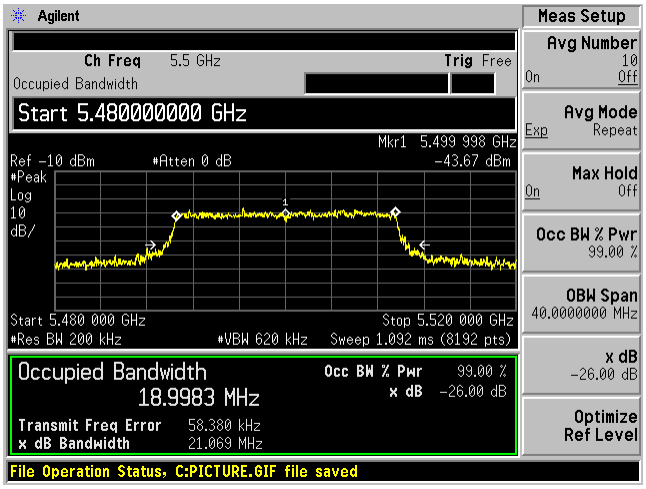


80 MHz

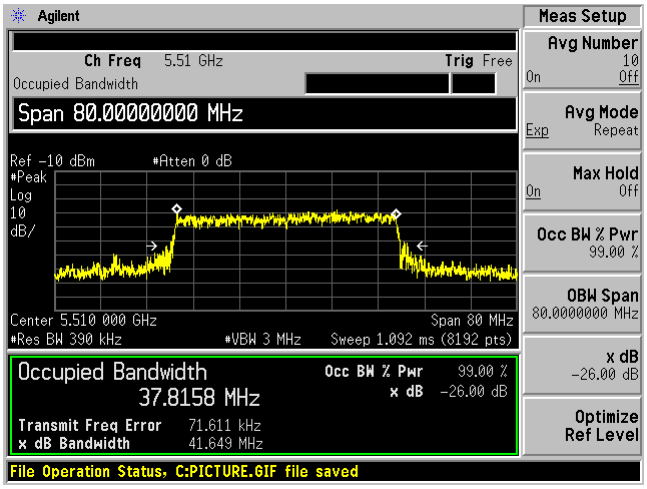


Pine Radio

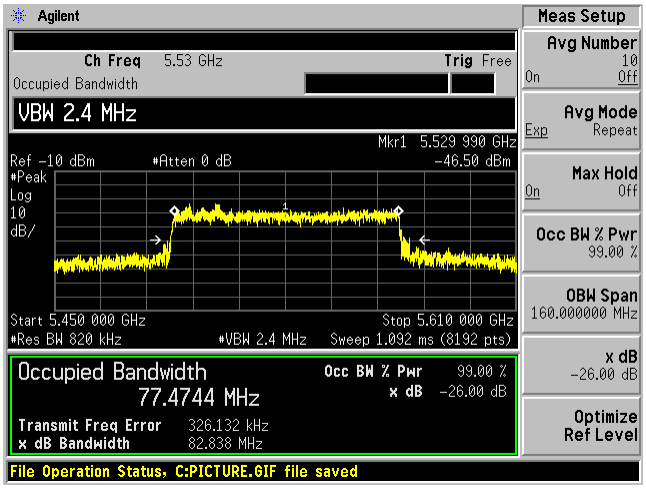
20 MHz



40 MHz



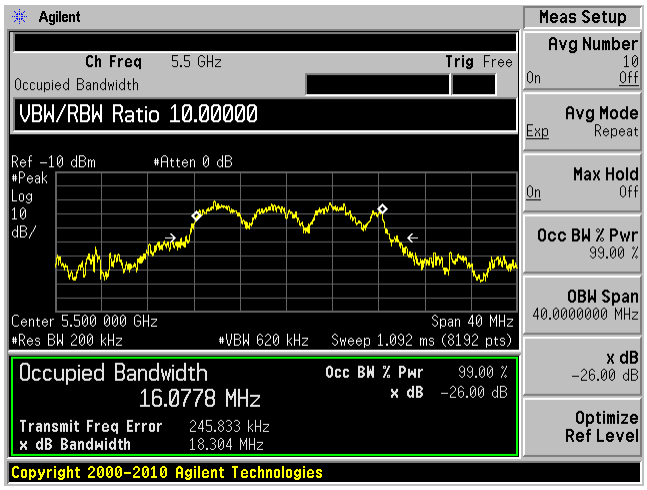
80 MHz



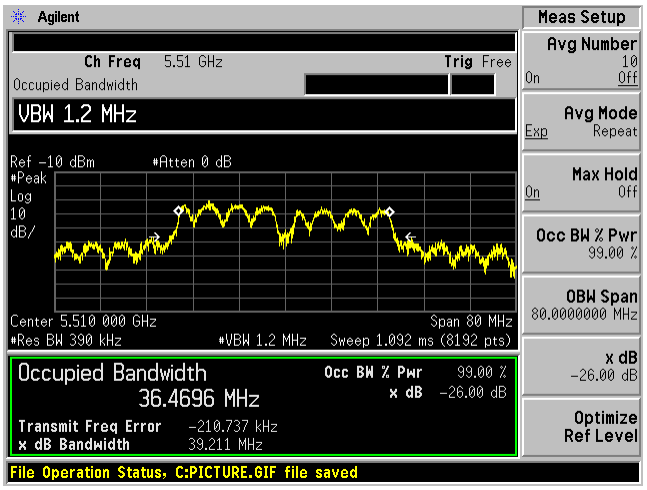
Client Mode

Cobalt Radio

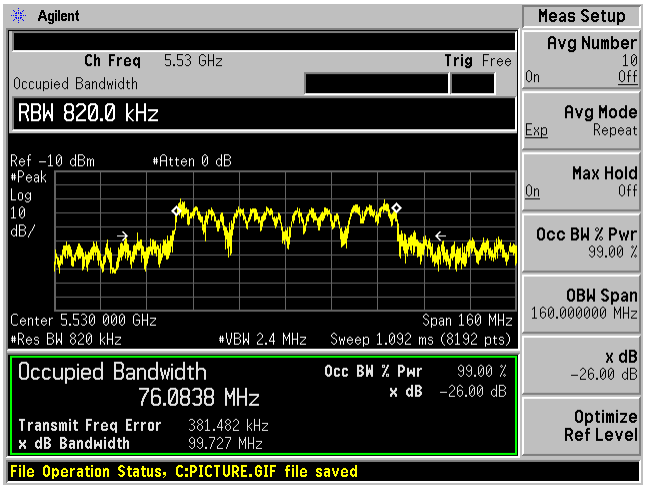
20 MHz



40 MHz

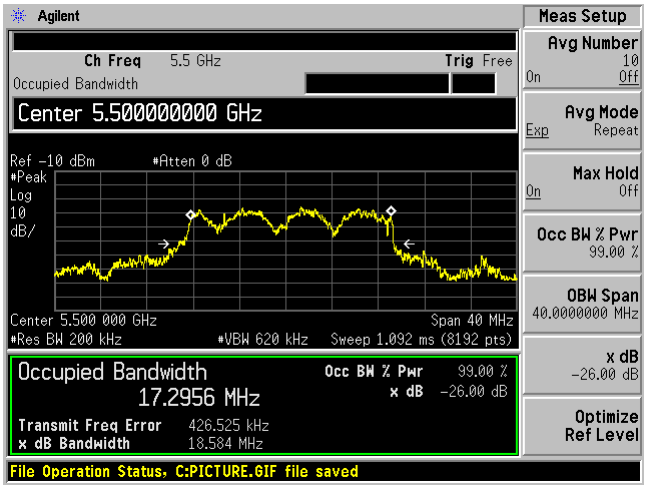


80 MHz

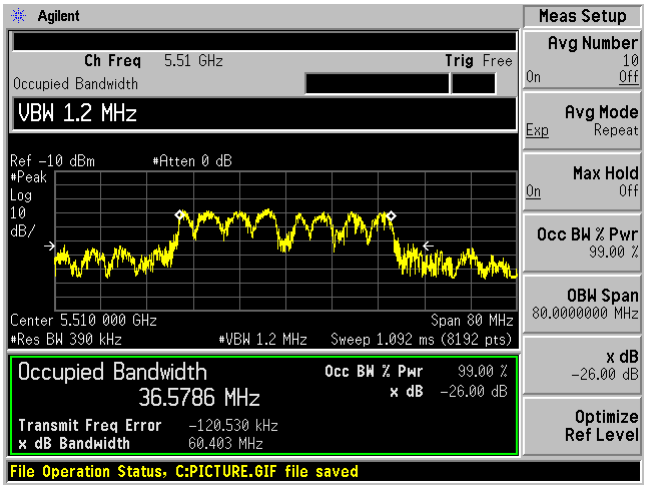


Pine Radio

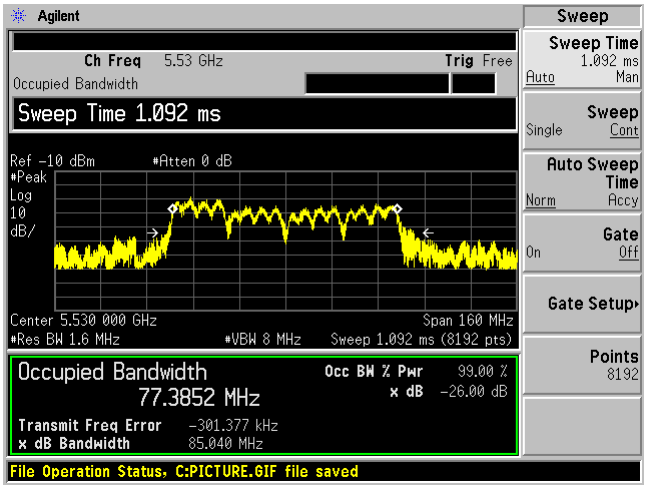
20 MHz



40 MHz



80 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:

P2P Mode
Cobalt Radio

5500 MHz, 20 MHz Bandwidth

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1A/1B	30	100 %	60%	Pass
Type 2	30	93.3 %	60%	Pass
Type 3	30	90 %	60%	Pass
Type 4	30	80 %	60%	Pass
Aggregate (Type1 to 4)	120	86.7 %	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	65	1.0	818	1
2	72	1.0	738	1
3	67	1.0	798	1
4	70	1.0	758	1
5	58	1.0	918	1
6	18	1.0	3066	1
7	57	1.0	938	1
8	68	1.0	778	1
9	62	1.0	858	1
10	102	1.0	518	1
11	95	1.0	558	1
12	83	1.0	638	1
13	81	1.0	658	1
14	61	1.0	878	1
15	86	1.0	618	1
16	27	1.0	1994	1
17	26	1.0	2070	1
18	23	1.0	2296	1
19	37	1.0	1466	1
20	20	1.0	2662	1
21	82	1.0	651	1
22	28	1.0	1952	1
23	19	1.0	2824	1
24	67	1.0	793	1
25	19	1.0	2891	1
26	28	1.0	1925	1
27	26	1.0	2093	1
28	63	1.0	845	1
29	34	1.0	1570	1
30	30	1.0	1819	1
Detection Percentage: 100 % (>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	5.0	222	1
2	25	3.6	230	1
3	24	2.1	227	1
4	26	1.1	209	1
5	26	3.5	230	1
6	29	3.3	178	1
7	27	4.9	172	1
8	23	4.7	221	1
9	26	4.0	183	1
10	28	2.7	196	1
11	26	1.9	219	1
12	26	4.0	198	1
13	29	1.8	179	1
14	23	1.5	200	1
15	25	2.4	200	1
16	25	1.0	151	1
17	29	4.6	194	1
18	29	1.7	172	0
19	27	1.0	158	1
20	23	2.5	188	1
21	28	3.1	220	1
22	23	4.5	187	1
23	23	3.6	171	1
24	26	3.4	221	1
25	26	2.1	224	1
26	23	3.7	166	1
27	23	4.6	214	1
28	27	4.3	154	1
29	29	3.3	220	1
30	29	5.0	156	0
Detection Percentage: 93.3 % (>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	17	9.6	212	1
2	18	8.7	347	1
3	16	6.2	382	1
4	16	6.7	225	1
5	17	9.3	273	1
6	17	9.5	248	1
7	16	8.5	337	1
8	16	6.1	344	1
9	18	7.4	392	1
10	18	9.7	307	1
11	17	8.1	215	1
12	18	7.4	216	1
13	18	6.4	203	1
14	16	8.8	411	1
15	17	8.8	464	1
16	16	7.2	434	1
17	17	10.0	465	1
18	16	9.5	449	1
19	17	6.1	205	1
20	16	7.6	275	1
21	18	7.7	386	1
22	17	8.1	329	1
23	18	9.0	384	1
24	17	8.1	493	0
25	18	9.2	397	1
26	18	9.1	262	0
27	16	9.4	273	1
28	16	8.7	302	1
29	17	7.1	256	0
30	17	6.8	398	1
Detection Percentage: 90 % (>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	15.8	251	0
2	14	11.8	468	0
3	12	18.5	427	0
4	16	15.5	488	1
5	13	11.5	352	1
6	16	17.0	307	1
7	13	14.9	274	1
8	14	19.1	494	1
9	12	14.3	420	1
10	14	12.9	323	1
11	16	12.1	318	1
12	13	19.2	245	0
13	15	16.5	391	1
14	13	19.6	293	1
15	13	18.3	287	1
16	12	17.9	418	1
17	13	14.2	312	1
18	12	16.2	347	1
19	12	16.7	483	1
20	15	14.9	438	1
21	16	16.3	274	1
22	15	14.8	267	0
23	13	19.6	357	1
24	13	11.0	304	1
25	12	17.6	483	1
26	12	15.5	213	1
27	12	12.3	425	0
28	14	18.7	368	1
29	14	13.0	223	1
30	13	15.7	259	1
Detection Percentage: 80 % (>60%)				

Table-5 Radar Type 5 Statistical Performance

Trial #	Fc (MHz)	Detection (1:yes; 0:no)
1	5500.0	1
2	5500.0	1
3	5500.0	1
4	5500.0	1
5	5500.0	1
6	5500.0	1
7	5500.0	1
8	5500.0	1
9	5500.0	1
10	5500.0	1
11	5494.1	1
12	5492.5	1
13	5494.9	1
14	5494.1	1
15	5497.7	1
16	5493.3	1
17	5494.1	1
18	5496.9	1
19	5495.7	1
20	5496.1	1
21	5505.1	1
22	5506.7	1
23	5507.5	1
24	5507.1	1
25	5504.7	1
26	5505.5	1
27	5503.5	1
28	5501.9	1
29	5503.9	1
30	5505.5	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	14	72.2	1112		0.527225	1
1	2	14	84.9	1604		0.738930	
2	1	14	88.6			1.439365	
3	3	14	54.7	1915	1110	2.296769	
4	2	14	60.5	1874		3.128549	
5	2	14	69.8	1580		3.712577	
6	1	14	68.8			4.599863	
7	2	14	78.0	1996		4.745780	
8	1	14	63.2			5.677876	
9	1	14	81.2			6.338768	
10	2	14	80.8	1539		6.996915	
11	2	14	52.4	1532		7.697262	
12	2	14	55.1	1817		8.125765	
13	3	14	53.4	1827	1574	8.694136	
14	1	14	68.6			9.861109	
15	1	14	81.8			10.339724	
16	2	14	85.8	1540		10.751152	
17	3	14	53.1	1708	1554	11.464420	

Bin5 Statistics 2

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	11	54.6	1964		0.175590	1
1	2	11	59.0	1195		1.624043	
2	2	11	79.1	1599		1.912385	
3	2	11	94.7	1627		3.329777	
4	3	11	82.9	1432	1458	4.196231	
5	3	11	94.8	1469	1343	4.833386	
6	1	11	81.5			5.588025	
7	3	11	57.9	1002	1370	6.397068	
8	2	11	77.2	1395		7.639037	
9	1	11	59.0			8.349357	
10	2	11	88.1	1987		8.574076	
11	1	11	89.8			9.874638	
12	2	11	75.6	1922		10.806608	
13	1	11	85.0			11.713394	

Bin5 Statistics 3

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	15	69.0			0.446395	1
1	2	15	95.1	1506		0.997169	
2	2	15	53.5	1739		2.379483	
3	2	15	93.6	1230		2.529935	
4	3	15	68.3	1139	1548	3.375163	
5	3	15	54.6	1959	1837	4.490398	
6	3	15	73.8	1194	1995	5.184506	
7	1	15	81.1			6.230199	
8	3	15	53.4	1782	1846	6.895967	
9	2	15	66.9	1795		7.343610	
10	3	15	77.0	1337	1113	8.659778	
11	3	15	69.2	1465	1873	9.444005	
12	1	15	83.3			9.811108	
13	1	15	72.8			10.516791	
14	2	15	54.2	1709		11.697156	
0	1	15	69.0			0.446395	
1	2	15	95.1	1506		0.997169	
2	2	15	53.5	1739		2.379483	

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	8	85.9	1169		0.754874	1
1	2	8	88.2	1184		1.589426	
2	1	8	91.1			2.366812	
3	1	8	98.6			3.046279	
4	3	8	83.1	1209	1327	4.185484	
5	2	8	52.8	1168		4.549311	
6	2	8	78.0	1698		5.900508	
7	2	8	91.8	1461		6.558623	
8	3	8	77.5	1073	1780	7.518457	
9	2	8	53.7	1304		8.425397	
10	2	8	62.0	1361		8.733499	
11	2	8	61.7	1756		9.866597	
12	1	8	95.8			10.374416	
13	2	8	59.8	1804		11.510966	

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	8	57.4			0.327355	1
1	2	8	81.3	1233		1.584293	
2	2	8	81.4	1341		3.217853	
3	3	8	56.8	1486	1337	3.670316	
4	3	8	64.9	1898	1323	5.484706	
5	1	8	86.1			6.194738	
6	2	8	56.5	1800		8.307746	
7	1	8	52.4			8.845157	
8	2	8	55.2	1921		10.027254	
9	2	8	89.7	1610		11.460232	

Bin5 Statistics 6

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	5	59.9	1737	1147	0.271263	1
1	1	5	75.8			1.332086	
2	2	5	94.4	1180		2.710237	
3	1	5	63.7			3.046587	
4	3	5	50.9	1039	1719	4.537371	
5	1	5	61.4			5.766083	
6	2	5	81.2	1931		6.222498	
7	2	5	62.0	1121		7.178334	
8	3	5	81.8	1169	1044	8.497479	
9	1	5	53.1			9.350415	
10	3	5	68.5	1753	1837	10.119072	
11	3	5	56.5	1499	1111	11.039883	

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	7	51.2	1126		0.708001	1
1	2	7	57.4	1208		1.162758	
2	3	7	65.8	1761	1235	2.123748	
3	2	7	81.2	1667		2.258467	
4	2	7	68.5	1316		3.690147	
5	3	7	92.1	1353	1449	4.257999	
6	2	7	93.2	1164		4.731698	
7	2	7	55.7	1062		5.418649	
8	1	7	64.2			6.309448	
9	3	7	64.6	1818	1096	7.286317	
10	2	7	58.6	1113		7.659600	
11	2	7	58.6	1159		8.431725	
12	2	7	52.5	1945		9.738394	
13	2	7	71.6	1043		10.114517	
14	3	7	86.8	1924	1929	10.545867	
15	1	7	79.2			11.802522	

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	10	66.8	1068		0.256909	1
1	2	10	82.0	1904		1.057470	
2	1	10	94.6			1.791154	
3	1	10	76.1			2.052986	
4	1	10	88.5			3.087322	
5	2	10	73.3	1821		3.717234	
6	3	10	54.9	1936	1561	4.470115	
7	2	10	50.2	1312		4.727458	
8	3	10	92.9	1761	1944	5.746126	
9	2	10	61.0	1774		6.519013	
10	2	10	65.1	1110		7.056842	
11	1	10	86.2			7.827518	
12	2	10	90.7	1785		8.032165	
13	2	10	66.8	1090		8.723802	
14	1	10	58.8			9.806206	
15	3	10	65.4	1034	1032	10.579140	
16	3	10	83.2	1923	1010	11.005981	
17	3	10	64.9	1012	1998	11.412521	

Bin5 Statistics 9

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	11	57.7	1790		0.806152	
1	2	11	56.3	1498		2.408264	
2	1	11	65.5			2.933438	
3	2	11	94.4	1282		4.779856	
4	3	11	58.4	1756	1711	6.429839	1
5	1	11	83.8			7.488423	
6	1	11	77.3			9.130853	
7	3	11	54.5	1701	1223	9.519341	
8	3	11	88.4	1939	1546	11.436333	

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	68.9	1732		0.326938	
1	2	11	81.6	1488		1.843287	
2	1	11	70.2			2.753883	
3	2	11	87.0	1920		4.152905	
4	1	11	84.8			5.527857	1
5	3	11	58.7	1942	1261	7.674711	
6	1	11	73.4			9.205528	
7	1	11	83.8			9.719790	
8	2	11	61.6	1570		10.777067	

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	9	73.8			0.215297	1
1	2	9	54.5	1929		1.037285	
2	1	9	82.9			1.758068	
3	3	9	87.7	1767	1500	3.053594	
4	2	9	81.0	1290		4.219038	
5	3	9	51.3	1913	1831	4.583976	
6	2	9	60.6	1991		5.712365	
7	2	9	95.7	1340		6.617980	
8	1	9	60.0			6.942501	
9	1	9	93.0			7.902231	
10	2	9	88.5	1175		9.114715	
11	2	9	74.3	1468		9.805309	
12	2	9	94.1	1476		10.552900	
13	2	9	93.0	1916		11.651738	

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	5	58.0			0.937943	1
1	2	5	95.5	1911		1.471048	
2	3	5	82.9	1931	1055	2.414985	
3	1	5	79.3			3.753334	
4	2	5	98.2	1192		4.222558	
5	2	5	66.3	1520		5.960712	
6	2	5	65.6	1962		6.467794	
7	2	5	62.0	1288		7.784446	
8	1	5	78.4			8.273319	
9	2	5	82.9	1589		9.961017	
10	2	5	61.3	1912		10.920402	
11	2	5	96.4	1644		11.125759	

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	11	55.4	1960	1352	0.432293	
1	3	11	59.8	1997	1312	1.526358	
2	2	11	71.8	1975		2.229722	
3	1	11	63.7			3.488610	
4	3	11	78.3	1915	1903	3.823498	
5	3	11	57.8	1772	1643	4.675573	
6	2	11	76.8	1411		6.208359	1
7	2	11	63.3	1067		6.739351	
8	2	11	74.2	1800		8.226031	
9	2	11	91.9	1273		9.184652	
10	2	11	70.0	1840		9.706759	
11	2	11	63.1	1623		10.179161	
12	2	11	59.0	1265		11.647792	

Bin5 Statistics 14

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	9	70.1			0.519695	
1	3	9	64.1	1113	1867	1.092981	
2	2	9	89.3	1294		1.410247	
3	3	9	99.4	1048	1177	2.182527	
4	3	9	83.4	1713	1532	2.658911	
5	2	9	65.9	1222		3.462116	
6	2	9	65.1	1791		3.600920	
7	3	9	90.4	1160	1785	4.479512	
8	3	9	75.2	1850	1018	4.916403	
9	2	9	78.6	1833		5.583402	
10	2	9	94.2	1461		6.244816	1
11	2	9	65.7	1367		6.826444	
12	3	9	91.0	1945	1899	7.544400	
13	2	9	65.2	1562		7.912299	
14	1	9	78.1			8.527096	
15	2	9	82.7	1944		9.306753	
16	2	9	51.8	1794		10.169185	
17	2	9	58.8	1746		10.376835	
18	2	9	62.0	1941		10.999419	
19	1	9	56.5			11.459598	

Bin5 Statistics 15

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	18	90.5	1115	1323	1.211808	1
1	3	18	90.6	1715	1437	2.236175	
2	3	18	62.4	1269	1745	3.852958	
3	3	18	65.1	1304	1801	4.208301	
4	1	18	92.4			6.545591	
5	1	18	76.7			7.922414	
6	3	18	89.3	1503	1126	8.247359	
7	2	18	73.2	1685		9.349378	
8	1	18	91.7			11.249368	

Bin5 Statistics 16

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	7	84.1	1674		1.371549	1
1	3	7	60.6	1615	1693	2.211666	
2	2	7	69.6	1798		4.362993	
3	2	7	80.9	1854		4.798369	
4	2	7	97.9	1023		7.251757	
5	1	7	57.4			7.511392	
6	2	7	53.9	1731		10.190442	
7	1	7	83.5			11.384201	

Bin5 Statistics 17

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	9	70.8	1951	1425	0.321125	1
1	2	9	87.6	1679		1.275872	
2	3	9	58.2	1046	1917	1.856570	
3	2	9	86.0	1558		2.606471	
4	2	9	82.0	1069		3.427019	
5	2	9	55.7	1778		4.038831	
6	2	9	64.4	1651		5.225692	
7	2	9	65.0	1845		5.821529	
8	1	9	56.7			6.615403	
9	2	9	90.5	1705		6.995254	
10	3	9	81.1	1587	1767	8.196786	
11	2	9	57.2	1278		8.278216	
12	2	9	79.0	1033		9.564515	
13	1	9	89.0			10.476382	
14	1	9	60.1			10.867121	
15	2	9	78.6	1056		11.783992	

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	16	75.1			0.304063	1
1	2	16	65.6	1535		1.493273	
2	2	16	99.6	1527		1.965016	
3	1	16	71.6			3.197000	
4	3	16	66.7	1683	1203	3.889322	
5	2	16	55.5	1612		4.536874	
6	3	16	58.1	1490	1195	5.875866	
7	2	16	82.3	1529		6.561265	
8	2	16	55.6	1013		7.623110	
9	3	16	95.9	1479	1930	8.108732	
10	2	16	90.9	1040		9.146488	
11	3	16	61.3	1800	1825	9.531747	
12	2	16	88.3	1362		11.020975	
13	3	16	91.3	1266	1661	11.787899	

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	13	59.3	1847		0.554620	1
1	3	13	66.7	1706	1718	1.760767	
2	3	13	93.5	1728	1324	2.096104	
3	1	13	69.4			3.103840	
4	2	13	90.2	1675		4.190709	
5	2	13	68.1	1816		4.870914	
6	2	13	96.7	1610		5.895379	
7	2	13	86.2	1718		6.797231	
8	3	13	53.3	1861	1562	8.033388	
9	3	13	59.5	1613	1228	8.525831	
10	3	13	86.2	1002	1460	9.660212	
11	2	13	65.2	1266		10.843658	
12	2	13	94.0	1690		11.263585	

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	14	71.2	1670		0.200866	1
1	2	14	83.7	1373		0.910281	
2	2	14	74.4	1877		1.865552	
3	3	14	69.2	1357	1164	3.099918	
4	3	14	61.9	1278	1178	3.729975	
5	2	14	85.2	1382		4.457275	
6	2	14	51.4	1902		5.508765	
7	1	14	72.5			6.538221	
8	1	14	51.2			6.932613	
9	2	14	83.0	1162		8.126053	
10	3	14	87.2	1112	1542	9.007989	
11	2	14	74.5	1770		9.893576	
12	3	14	93.8	1752	1395	10.520062	
13	1	14	74.8			11.282671	

Bin5 Statistics 21

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	11	72.4	1790	1738	0.350223	1
1	2	11	95.4	1014		1.161605	
2	2	11	55.1	1651		1.726462	
3	1	11	58.1			2.371712	
4	2	11	97.7	1760		2.706241	
5	2	11	95.2	1171		3.476111	
6	2	11	50.9	1952		3.722455	
7	2	11	78.7	1822		4.709992	
8	2	11	51.0	1163		5.158057	
9	3	11	78.2	1048	1574	5.417579	
10	2	11	84.8	1938		6.535392	
11	1	11	92.4			6.833980	
12	2	11	95.7	1936		7.486388	
13	1	11	70.0			8.097055	
14	2	11	93.4	1624		8.413503	
15	1	11	81.4			9.061760	
16	2	11	74.8	1253		10.158692	
17	2	11	81.0	1629		10.610408	
18	2	11	97.2	1015		11.371076	
19	2	11	70.4	1934		11.762875	

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	7	51.6			0.167650	1
1	1	7	65.4			1.465070	
2	2	7	77.8	1827		2.076495	
3	1	7	55.7			2.818351	
4	3	7	98.4	1949	1928	4.141517	
5	1	7	50.1			4.622959	
6	2	7	92.3	1376		5.862686	
7	3	7	97.9	1311	1026	6.779406	
8	2	7	97.3	1944		7.094768	
9	3	7	85.6	1920	1607	8.142416	
10	3	7	57.0	1959	1831	9.031298	
11	2	7	71.8	1873		9.452884	
12	2	7	71.4	1788		10.468921	
13	1	7	78.5			11.774492	

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	5	83.3			0.393421	
1	3	5	81.5	1358	1121	0.726102	
2	3	5	60.7	1020	1457	1.726010	
3	1	5	85.6			2.082223	
4	1	5	82.2			3.135442	
5	3	5	75.5	1977	1247	3.183008	
6	2	5	75.1	1874		3.868356	
7	2	5	94.5	1373		4.803297	
8	2	5	52.9	1361		5.239247	
9	2	5	74.5	1715		5.892658	1
10	1	5	84.1			6.514583	
11	3	5	61.7	1870	1435	7.551201	
12	3	5	85.7	1111	1497	7.773344	
13	1	5	65.5			8.346958	
14	1	5	50.8			9.172804	
15	3	5	79.6	1215	1899	9.635394	
16	1	5	92.4			10.209595	
17	2	5	78.2	1000		10.754979	
18	2	5	86.9	1310		11.543596	

Bin5 Statistics 24

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	6	51.2			1.215164	
1	3	6	93.2	1785	1311	1.550052	
2	2	6	52.9	1163		3.316939	
3	1	6	55.7			5.249722	
4	1	6	58.8			6.349645	1
5	3	6	62.5	1905	1366	7.254694	
6	2	6	77.8	1866		9.277907	
7	3	6	63.0	1404	1235	9.902675	
8	2	6	91.5	1898		11.010354	

Bin5 Statistics 25

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	12	69.7	1578		0.613118	
1	2	12	88.0	1767		0.920799	
2	3	12	94.7	1272	1798	2.019688	
3	3	12	98.8	1314	1729	2.779021	
4	3	12	64.1	1984	1216	3.393402	
5	1	12	56.1			3.574433	
6	2	12	76.6	1126		4.304838	
7	2	12	92.1	1092		5.398234	
8	3	12	70.5	1627	1630	5.849422	1
9	2	12	79.3	1285		6.603618	
10	2	12	75.8	1225		7.205951	
11	3	12	68.9	1680	1222	8.322232	
12	2	12	59.5	1718		8.599322	
13	2	12	68.5	1991		9.556208	
14	2	12	73.1	1533		10.143949	
15	1	12	94.4			10.691241	
16	1	12	89.3			11.880337	

Bin5 Statistics 26

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	10	96.0	1842		0.341385	
1	2	10	71.2	1324		2.008460	
2	2	10	70.0	1408		2.785517	
3	2	10	80.0	1353		3.382953	
4	2	10	71.0	1649		4.722785	
5	1	10	83.3			5.700212	1
6	2	10	60.1	1668		6.783617	
7	2	10	78.4	1254		8.560062	
8	2	10	99.9	1720		9.290467	
9	2	10	90.7	1590		10.234369	
10	3	10	57.8	1100	1932	11.810544	

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	15	57.7	1756		0.124595	
1	2	15	86.6	1628		2.175858	
2	2	15	66.1	1947		2.360731	
3	2	15	67.2	1707		3.679896	
4	3	15	52.6	1485	1826	4.903842	
5	2	15	74.6	1682		6.226713	1
6	2	15	79.8	1868		6.641189	
7	3	15	76.4	1143	1195	8.384785	
8	1	15	87.8			9.550212	
9	2	15	54.1	1663		10.039758	
10	2	15	72.5	1138		11.030062	

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	19	51.0			0.276416	1
1	2	19	89.2	1073		1.321983	
2	2	19	59.3	1942		2.561663	
3	2	19	86.5	1333		3.653108	
4	2	19	57.4	1949		4.190183	
5	3	19	99.0	1627	1928	5.804628	
6	3	19	68.6	1262	1824	6.602239	
7	2	19	58.6	1346		7.863447	
8	2	19	63.8	1422		8.938748	
9	3	19	67.6	1947	1820	9.283796	
10	1	19	58.4			10.282607	
11	1	19	70.0			11.028365	

Bin5 Statistics 29

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	14	61.5	1328	1889	0.278737	1
1	2	14	81.6	1731		1.281939	
2	2	14	97.0	1874		1.582226	
3	1	14	58.4			2.957777	
4	1	14	97.7			3.443030	
5	1	14	54.3			4.115479	
6	2	14	75.5	1980		4.998755	
7	2	14	90.7	1276		5.776476	
8	1	14	84.1			6.443915	
9	3	14	54.1	1222	1966	7.281157	
10	2	14	58.2	1734		7.579957	
11	2	14	94.7	1348		8.869808	
12	2	14	66.0	1286		9.346512	
13	3	14	62.3	1731	1863	10.069877	
14	3	14	65.3	1069	1840	11.089446	
15	2	14	88.8	1617		11.824326	

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	10	57.2	1487		0.729788	
1	2	10	98.2	1837		0.923205	
2	3	10	94.2	1753	1927	2.251427	
3	1	10	82.8			3.075618	
4	2	10	89.5	1763		3.425399	
5	2	10	76.1	1525		4.219698	
6	1	10	95.4			5.417803	
7	1	10	96.8			6.022351	1
8	1	10	57.2			6.734871	
9	2	10	93.8	1770		7.297890	
10	3	10	50.8	1093	1799	8.206204	
11	1	10	50.5			9.203061	
12	1	10	88.9			9.714748	
13	3	10	82.3	1110	1305	10.680993	
14	1	10	58.6			11.913382	

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	5314.0, 5560.0, 5537.0, 5684.0, 5662.0, 5418.0, 5710.0, 5480.0, 5421.0, 5613.0, 5352.0, 5413.0, 5420.0, 5432.0, 5520.0, 5364.0, 5388.0, 5549.0, 5331.0, 5704.0, 5503.0, 5367.0, 5571.0, 5381.0, 5643.0, 5259.0, 5511.0, 5347.0, 5451.0, 5335.0, 5436.0, 5505.0, 5512.0, 5629.0, 5434.0, 5561.0, 5525.0, 5548.0, 5588.0, 5345.0, 5491.0, 5293.0, 5562.0, 5429.0, 5576.0, 5507.0, 5581.0, 5402.0, 5631.0, 5680.0, 5698.0, 5336.0, 5701.0, 5575.0, 5652.0, 5492.0, 5583.0, 5721.0, 5392.0, 5324.0, 5365.0, 5325.0, 5428.0, 5446.0, 5425.0, 5580.0, 5396.0, 5679.0, 5264.0, 5380.0, 5635.0, 5564.0, 5508.0, 5414.0, 5579.0, 5593.0, 5479.0, 5400.0, 5693.0, 5406.0, 5531.0, 5518.0, 5628.0, 5550.0, 5346.0, 5596.0, 5341.0, 5459.0, 5656.0, 5644.0, 5638.0, 5541.0, 5678.0, 5573.0, 5688.0, 5273.0, 5300.0, 5670.0, 5539.0, 5623.0 (number of hits: 6)
2	5500.0	9	1.0	333	1	5442.0, 5449.0, 5448.0, 5645.0, 5607.0, 5340.0, 5431.0, 5672.0, 5392.0, 5278.0, 5498.0, 5707.0, 5266.0, 5542.0, 5325.0, 5609.0, 5702.0, 5586.0, 5459.0, 5419.0, 5462.0, 5653.0, 5453.0, 5452.0, 5502.0, 5665.0, 5445.0, 5410.0, 5317.0, 5311.0, 5662.0, 5366.0, 5289.0, 5494.0, 5648.0, 5320.0, 5409.0, 5649.0, 5352.0, 5334.0, 5684.0, 5327.0, 5532.0, 5578.0, 5497.0, 5704.0, 5503.0, 5328.0, 5572.0, 5416.0, 5679.0, 5376.0, 5671.0, 5562.0, 5471.0, 5430.0, 5550.0, 5591.0, 5706.0, 5356.0, 5380.0, 5336.0, 5620.0, 5721.0, 5339.0, 5505.0, 5636.0, 5659.0, 5517.0, 5313.0, 5253.0, 5575.0, 5310.0, 5335.0, 5343.0, 5353.0, 5719.0, 5593.0, 5297.0, 5553.0, 5557.0, 5420.0, 5346.0, 5560.0, 5689.0, 5484.0, 5577.0, 5287.0, 5404.0, 5323.0, 5585.0, 5429.0, 5382.0, 5329.0, 5476.0, 5640.0, 5554.0, 5385.0, 5486.0, 5259.0 (number of hits: 6)
3	5500.0	9	1.0	333	1	5408.0, 5467.0, 5515.0, 5704.0, 5520.0, 5495.0, 5557.0, 5324.0, 5608.0, 5598.0, 5456.0, 5722.0, 5624.0, 5655.0, 5302.0, 5634.0, 5477.0, 5258.0, 5606.0, 5528.0, 5464.0, 5573.0, 5508.0, 5421.0, 5574.0, 5365.0, 5584.0, 5713.0, 5615.0, 5427.0, 5661.0, 5306.0, 5519.0, 5368.0, 5649.0, 5719.0, 5330.0, 5420.0, 5361.0, 5290.0, 5660.0, 5287.0, 5539.0, 5499.0, 5535.0, 5400.0, 5251.0, 5657.0, 5618.0, 5442.0, 5296.0, 5556.0, 5562.0, 5561.0, 5266.0, 5423.0, 5438.0, 5299.0, 5686.0, 5331.0, 5510.0, 5406.0, 5472.0, 5596.0, 5379.0, 5378.0, 5526.0, 5282.0, 5648.0, 5673.0, 5642.0, 5336.0, 5487.0, 5629.0, 5320.0, 5582.0, 5430.0, 5386.0, 5568.0, 5360.0, 5429.0, 5452.0, 5674.0, 5565.0, 5280.0, 5625.0, 5281.0, 5413.0, 5341.0, 5707.0, 5583.0, 5339.0, 5292.0, 5291.0, 5670.0, 5444.0, 5594.0, 5425.0, 5433.0, 5439.0 (number of hits: 3)
4	5500.0	9	1.0	333	1	5407.0, 5495.0, 5707.0, 5515.0, 5362.0, 5715.0, 5380.0, 5590.0, 5702.0, 5649.0, 5444.0, 5348.0, 5393.0, 5312.0, 5632.0, 5660.0, 5605.0, 5434.0, 5517.0, 5375.0, 5274.0, 5639.0, 5672.0, 5288.0, 5676.0, 5665.0, 5587.0, 5266.0, 5628.0, 5472.0, 5668.0, 5415.0, 5282.0, 5298.0, 5577.0, 5630.0, 5369.0, 5693.0, 5597.0, 5256.0, 5483.0, 5615.0, 5370.0, 5511.0, 5487.0, 5293.0, 5346.0, 5303.0, 5522.0, 5504.0, 5427.0, 5377.0, 5416.0, 5443.0, 5594.0, 5709.0, 5686.0, 5383.0, 5367.0, 5699.0, 5355.0, 5721.0, 5341.0, 5311.0, 5378.0, 5694.0, 5684.0, 5306.0, 5508.0, 5264.0,

						5430.0, 5423.0, 5576.0, 5478.0, 5319.0, 5315.0, 5659.0, 5612.0, 5422.0, 5706.0, 5347.0, 5690.0, 5462.0, 5456.0, 5419.0, 5643.0, 5663.0, 5703.0, 5720.0, 5454.0, 5353.0, 5666.0, 5365.0, 5285.0, 5652.0, 5497.0, 5604.0, 5307.0, 5279.0, 5411.0 (number of hits: 4)
5	5500.0	9	1.0	333	1	5490.0, 5595.0, 5281.0, 5414.0, 5645.0, 5469.0, 5438.0, 5687.0, 5398.0, 5422.0, 5257.0, 5290.0, 5663.0, 5516.0, 5530.0, 5331.0, 5633.0, 5622.0, 5485.0, 5402.0, 5495.0, 5353.0, 5384.0, 5642.0, 5305.0, 5653.0, 5437.0, 5262.0, 5668.0, 5583.0, 5423.0, 5391.0, 5531.0, 5620.0, 5254.0, 5616.0, 5623.0, 5460.0, 5494.0, 5568.0, 5392.0, 5338.0, 5651.0, 5520.0, 5692.0, 5417.0, 5591.0, 5580.0, 5597.0, 5558.0, 5308.0, 5265.0, 5377.0, 5632.0, 5388.0, 5463.0, 5694.0, 5342.0, 5669.0, 5416.0, 5277.0, 5366.0, 5509.0, 5543.0, 5712.0, 5567.0, 5390.0, 5560.0, 5700.0, 5295.0, 5539.0, 5502.0, 5482.0, 5561.0, 5717.0, 5335.0, 5260.0, 5701.0, 5665.0, 5601.0, 5533.0, 5715.0, 5679.0, 5327.0, 5304.0, 5465.0, 5689.0, 5318.0, 5607.0, 5681.0, 5397.0, 5440.0, 5603.0, 5287.0, 5427.0, 5296.0, 5522.0, 5470.0, 5449.0, 5371.0 (number of hits: 5)
6	5500.0	9	1.0	333	1	5267.0, 5317.0, 5609.0, 5295.0, 5342.0, 5279.0, 5519.0, 5331.0, 5523.0, 5389.0, 5594.0, 5362.0, 5677.0, 5630.0, 5661.0, 5556.0, 5474.0, 5393.0, 5488.0, 5618.0, 5572.0, 5442.0, 5686.0, 5493.0, 5719.0, 5579.0, 5477.0, 5434.0, 5263.0, 5682.0, 5657.0, 5543.0, 5253.0, 5462.0, 5503.0, 5614.0, 5641.0, 5575.0, 5369.0, 5387.0, 5680.0, 5542.0, 5518.0, 5699.0, 5469.0, 5671.0, 5326.0, 5691.0, 5465.0, 5291.0, 5723.0, 5627.0, 5578.0, 5651.0, 5398.0, 5616.0, 5698.0, 5404.0, 5385.0, 5356.0, 5530.0, 5541.0, 5321.0, 5576.0, 5443.0, 5497.0, 5438.0, 5632.0, 5660.0, 5673.0, 5440.0, 5448.0, 5681.0, 5615.0, 5635.0, 5511.0, 5365.0, 5640.0, 5461.0, 5683.0, 5513.0, 5379.0, 5405.0, 5592.0, 5421.0, 5314.0, 5624.0, 5437.0, 5565.0, 5258.0, 5261.0, 5710.0, 5270.0, 5639.0, 5446.0, 5282.0, 5312.0, 5384.0, 5296.0, 5568.0 (number of hits: 3)
7	5500.0	9	1.0	333	1	5376.0, 5696.0, 5567.0, 5494.0, 5437.0, 5603.0, 5573.0, 5508.0, 5720.0, 5396.0, 5252.0, 5544.0, 5341.0, 5373.0, 5547.0, 5531.0, 5447.0, 5422.0, 5526.0, 5457.0, 5535.0, 5613.0, 5451.0, 5536.0, 5369.0, 5481.0, 5321.0, 5361.0, 5579.0, 5505.0, 5482.0, 5570.0, 5259.0, 5714.0, 5274.0, 5302.0, 5614.0, 5413.0, 5500.0, 5610.0, 5606.0, 5381.0, 5416.0, 5408.0, 5646.0, 5466.0, 5559.0, 5512.0, 5355.0, 5658.0, 5568.0, 5332.0, 5251.0, 5448.0, 5556.0, 5496.0, 5665.0, 5583.0, 5701.0, 5291.0, 5669.0, 5260.0, 5407.0, 5269.0, 5517.0, 5695.0, 5687.0, 5598.0, 5604.0, 5370.0, 5679.0, 5519.0, 5255.0, 5349.0, 5282.0, 5343.0, 5497.0, 5418.0, 5358.0, 5409.0, 5546.0, 5676.0, 5591.0, 5663.0, 5527.0, 5412.0, 5572.0, 5659.0, 5605.0, 5315.0, 5296.0, 5492.0, 5375.0, 5310.0, 5270.0, 5522.0, 5506.0, 5283.0, 5664.0, 5442.0 (number of hits: 8)
8	5500.0	9	1.0	333	1	5521.0, 5288.0, 5671.0, 5300.0, 5281.0, 5482.0, 5612.0, 5562.0, 5690.0, 5601.0, 5693.0, 5485.0, 5336.0, 5532.0, 5598.0, 5625.0, 5580.0, 5423.0, 5273.0, 5379.0, 5435.0, 5367.0, 5565.0, 5617.0, 5306.0, 5305.0, 5427.0, 5516.0, 5663.0, 5599.0, 5720.0, 5499.0, 5710.0, 5530.0, 5667.0, 5352.0, 5511.0, 5493.0, 5370.0, 5519.0, 5607.0, 5676.0, 5461.0, 5304.0, 5608.0, 5357.0, 5539.0, 5672.0, 5446.0, 5554.0, 5688.0, 5559.0, 5261.0, 5510.0, 5396.0, 5506.0, 5649.0, 5338.0, 5537.0, 5293.0, 5411.0, 5697.0, 5652.0, 5343.0, 5431.0, 5588.0, 5533.0, 5640.0, 5452.0, 5401.0, 5680.0, 5279.0, 5415.0, 5388.0, 5362.0, 5308.0, 5723.0,

						5614.0, 5295.0, 5474.0, 5417.0, 5683.0, 5254.0, 5618.0, 5586.0, 5294.0, 5590.0, 5673.0, 5252.0, 5544.0, 5626.0, 5645.0, 5403.0, 5354.0, 5360.0, 5390.0, 5534.0, 5686.0, 5547.0, 5567.0 (number of hits: 3)
9	5500.0	9	1.0	333	1	5301.0, 5574.0, 5697.0, 5305.0, 5672.0, 5699.0, 5413.0, 5467.0, 5479.0, 5332.0, 5576.0, 5410.0, 5480.0, 5444.0, 5320.0, 5420.0, 5303.0, 5526.0, 5687.0, 5516.0, 5641.0, 5612.0, 5403.0, 5321.0, 5457.0, 5614.0, 5404.0, 5508.0, 5376.0, 5571.0, 5606.0, 5392.0, 5450.0, 5464.0, 5314.0, 5515.0, 5307.0, 5546.0, 5297.0, 5519.0, 5635.0, 5257.0, 5646.0, 5523.0, 5254.0, 5668.0, 5312.0, 5292.0, 5357.0, 5665.0, 5315.0, 5549.0, 5354.0, 5370.0, 5400.0, 5328.0, 5630.0, 5352.0, 5360.0, 5409.0, 5660.0, 5431.0, 5667.0, 5538.0, 5535.0, 5380.0, 5536.0, 5385.0, 5449.0, 5446.0, 5428.0, 5577.0, 5645.0, 5572.0, 5342.0, 5358.0, 5365.0, 5407.0, 5435.0, 5613.0, 5333.0, 5495.0, 5565.0, 5602.0, 5550.0, 5666.0, 5513.0, 5580.0, 5448.0, 5414.0, 5353.0, 5713.0, 5390.0, 5488.0, 5434.0, 5492.0, 5327.0, 5452.0, 5399.0, 5619.0 (number of hits: 3)
10	5500.0	9	1.0	333	1	5301.0, 5540.0, 5393.0, 5541.0, 5516.0, 5665.0, 5264.0, 5348.0, 5402.0, 5602.0, 5299.0, 5596.0, 5451.0, 5666.0, 5539.0, 5563.0, 5633.0, 5470.0, 5356.0, 5346.0, 5422.0, 5568.0, 5683.0, 5391.0, 5439.0, 5394.0, 5500.0, 5551.0, 5609.0, 5599.0, 5325.0, 5543.0, 5638.0, 5656.0, 5495.0, 5535.0, 5510.0, 5379.0, 5494.0, 5271.0, 5352.0, 5698.0, 5362.0, 5370.0, 5256.0, 5474.0, 5557.0, 5288.0, 5617.0, 5645.0, 5270.0, 5436.0, 5403.0, 5266.0, 5502.0, 5324.0, 5313.0, 5492.0, 5627.0, 5317.0, 5339.0, 5421.0, 5410.0, 5618.0, 5397.0, 5405.0, 5431.0, 5366.0, 5416.0, 5681.0, 5647.0, 5444.0, 5708.0, 5480.0, 5567.0, 5287.0, 5491.0, 5680.0, 5486.0, 5252.0, 5636.0, 5691.0, 5644.0, 5507.0, 5450.0, 5528.0, 5642.0, 5446.0, 5522.0, 5623.0, 5434.0, 5364.0, 5255.0, 5508.0, 5583.0, 5547.0, 5355.0, 5615.0, 5310.0, 5716.0 (number of hits: 8)
11	5500.0	9	1.0	333	1	5638.0, 5442.0, 5408.0, 5269.0, 5579.0, 5428.0, 5333.0, 5564.0, 5348.0, 5544.0, 5552.0, 5400.0, 5646.0, 5526.0, 5332.0, 5258.0, 5321.0, 5561.0, 5643.0, 5369.0, 5357.0, 5364.0, 5464.0, 5604.0, 5543.0, 5542.0, 5657.0, 5403.0, 5639.0, 5445.0, 5500.0, 5645.0, 5465.0, 5254.0, 5550.0, 5298.0, 5447.0, 5312.0, 5387.0, 5311.0, 5484.0, 5392.0, 5505.0, 5379.0, 5562.0, 5520.0, 5711.0, 5405.0, 5537.0, 5694.0, 5393.0, 5508.0, 5652.0, 5438.0, 5305.0, 5263.0, 5654.0, 5583.0, 5541.0, 5667.0, 5314.0, 5713.0, 5666.0, 5273.0, 5525.0, 5499.0, 5435.0, 5266.0, 5704.0, 5283.0, 5672.0, 5402.0, 5495.0, 5664.0, 5368.0, 5457.0, 5545.0, 5257.0, 5345.0, 5291.0, 5554.0, 5275.0, 5300.0, 5293.0, 5608.0, 5593.0, 5663.0, 5336.0, 5536.0, 5439.0, 5531.0, 5530.0, 5503.0, 5570.0, 5515.0, 5386.0, 5691.0, 5612.0, 5534.0, 5281.0 (number of hits: 6)
12	5500.0	9	1.0	333	1	5487.0, 5297.0, 5477.0, 5518.0, 5649.0, 5372.0, 5490.0, 5720.0, 5342.0, 5361.0, 5303.0, 5528.0, 5429.0, 5382.0, 5323.0, 5638.0, 5600.0, 5633.0, 5433.0, 5575.0, 5665.0, 5366.0, 5615.0, 5577.0, 5451.0, 5504.0, 5534.0, 5644.0, 5581.0, 5687.0, 5580.0, 5493.0, 5266.0, 5497.0, 5536.0, 5273.0, 5390.0, 5378.0, 5667.0, 5541.0, 5719.0, 5363.0, 5339.0, 5503.0, 5251.0, 5502.0, 5369.0, 5627.0, 5678.0, 5619.0, 5440.0, 5334.0, 5471.0, 5271.0, 5716.0, 5320.0, 5703.0, 5442.0, 5673.0, 5620.0, 5635.0, 5379.0, 5309.0, 5681.0, 5630.0, 5701.0, 5418.0, 5398.0, 5403.0, 5373.0, 5425.0, 5572.0, 5412.0, 5583.0, 5452.0, 5658.0, 5586.0, 5353.0, 5653.0, 5567.0, 5316.0, 5347.0, 5359.0, 5707.0,

						5480.0, 5391.0, 5282.0, 5288.0, 5280.0, 5299.0, 5410.0, 5274.0, 5262.0, 5570.0, 5264.0, 5318.0, 5603.0, 5708.0, 5431.0, 5314.0 (number of hits: 6)
13	5500.0	9	1.0	333	1	5352.0, 5693.0, 5472.0, 5688.0, 5401.0, 5527.0, 5660.0, 5519.0, 5492.0, 5699.0, 5543.0, 5679.0, 5259.0, 5599.0, 5520.0, 5440.0, 5391.0, 5706.0, 5375.0, 5707.0, 5398.0, 5252.0, 5283.0, 5529.0, 5467.0, 5595.0, 5597.0, 5672.0, 5372.0, 5555.0, 5663.0, 5299.0, 5501.0, 5267.0, 5596.0, 5641.0, 5636.0, 5403.0, 5704.0, 5408.0, 5593.0, 5256.0, 5433.0, 5710.0, 5337.0, 5502.0, 5579.0, 5723.0, 5559.0, 5633.0, 5357.0, 5542.0, 5327.0, 5461.0, 5486.0, 5293.0, 5381.0, 5385.0, 5396.0, 5328.0, 5533.0, 5466.0, 5468.0, 5551.0, 5306.0, 5428.0, 5539.0, 5273.0, 5407.0, 5552.0, 5702.0, 5384.0, 5355.0, 5517.0, 5622.0, 5631.0, 5436.0, 5410.0, 5479.0, 5548.0, 5404.0, 5304.0, 5397.0, 5361.0, 5497.0, 5582.0, 5379.0, 5338.0, 5544.0, 5254.0, 5257.0, 5518.0, 5258.0, 5353.0, 5654.0, 5575.0, 5624.0, 5370.0, 5335.0, 5691.0 (number of hits: 4)
14	5500.0	9	1.0	333	1	5287.0, 5702.0, 5360.0, 5640.0, 5495.0, 5266.0, 5465.0, 5673.0, 5637.0, 5493.0, 5705.0, 5604.0, 5553.0, 5398.0, 5407.0, 5561.0, 5292.0, 5353.0, 5503.0, 5657.0, 5434.0, 5618.0, 5706.0, 5350.0, 5276.0, 5400.0, 5263.0, 5643.0, 5402.0, 5532.0, 5595.0, 5626.0, 5709.0, 5299.0, 5269.0, 5507.0, 5682.0, 5519.0, 5688.0, 5663.0, 5316.0, 5556.0, 5529.0, 5361.0, 5279.0, 5324.0, 5608.0, 5585.0, 5380.0, 5334.0, 5399.0, 5283.0, 5340.0, 5590.0, 5317.0, 5459.0, 5550.0, 5716.0, 5655.0, 5621.0, 5513.0, 5587.0, 5436.0, 5570.0, 5690.0, 5343.0, 5377.0, 5679.0, 5457.0, 5659.0, 5433.0, 5508.0, 5388.0, 5710.0, 5297.0, 5524.0, 5615.0, 5662.0, 5698.0, 5258.0, 5290.0, 5435.0, 5347.0, 5289.0, 5479.0, 5715.0, 5599.0, 5391.0, 5423.0, 5378.0, 5421.0, 5678.0, 5261.0, 5487.0, 5661.0, 5404.0, 5571.0, 5373.0, 5335.0, 5470.0 (number of hits: 5)
15	5500.0	9	1.0	333	1	5546.0, 5345.0, 5615.0, 5377.0, 5393.0, 5583.0, 5637.0, 5691.0, 5538.0, 5465.0, 5426.0, 5329.0, 5528.0, 5686.0, 5659.0, 5291.0, 5565.0, 5330.0, 5271.0, 5669.0, 5260.0, 5507.0, 5534.0, 5519.0, 5340.0, 5437.0, 5633.0, 5264.0, 5628.0, 5699.0, 5347.0, 5657.0, 5554.0, 5634.0, 5536.0, 5290.0, 5713.0, 5279.0, 5619.0, 5620.0, 5516.0, 5372.0, 5597.0, 5644.0, 5399.0, 5495.0, 5369.0, 5600.0, 5608.0, 5621.0, 5601.0, 5517.0, 5709.0, 5605.0, 5454.0, 5505.0, 5419.0, 5427.0, 5381.0, 5703.0, 5520.0, 5400.0, 5671.0, 5537.0, 5553.0, 5484.0, 5439.0, 5285.0, 5424.0, 5718.0, 5490.0, 5487.0, 5410.0, 5578.0, 5300.0, 5497.0, 5366.0, 5286.0, 5335.0, 5700.0, 5606.0, 5575.0, 5483.0, 5527.0, 5683.0, 5593.0, 5682.0, 5503.0, 5447.0, 5386.0, 5665.0, 5431.0, 5656.0, 5679.0, 5412.0, 5280.0, 5636.0, 5711.0, 5586.0, 5526.0 (number of hits: 6)
16	5500.0	9	1.0	333	1	5476.0, 5348.0, 5547.0, 5479.0, 5363.0, 5387.0, 5543.0, 5681.0, 5519.0, 5253.0, 5269.0, 5332.0, 5676.0, 5393.0, 5341.0, 5451.0, 5351.0, 5497.0, 5647.0, 5503.0, 5491.0, 5697.0, 5462.0, 5574.0, 5694.0, 5293.0, 5344.0, 5318.0, 5446.0, 5594.0, 5365.0, 5634.0, 5297.0, 5568.0, 5383.0, 5284.0, 5278.0, 5718.0, 5296.0, 5703.0, 5502.0, 5407.0, 5508.0, 5356.0, 5483.0, 5633.0, 5428.0, 5713.0, 5603.0, 5561.0, 5600.0, 5702.0, 5619.0, 5432.0, 5691.0, 5406.0, 5701.0, 5314.0, 5514.0, 5677.0, 5480.0, 5313.0, 5434.0, 5661.0, 5342.0, 5487.0, 5605.0, 5566.0, 5589.0, 5287.0, 5533.0, 5673.0, 5326.0, 5507.0, 5714.0, 5650.0, 5353.0, 5692.0, 5646.0, 5658.0, 5390.0, 5630.0, 5500.0, 5712.0, 5553.0, 5346.0, 5709.0, 5488.0, 5620.0, 5440.0, 5373.0,

						5482.0, 5377.0, 5523.0, 5399.0, 5636.0, 5416.0, 5527.0, 5524.0, 5638.0 (number of hits: 7)
17	5500.0	9	1.0	333	1	5308.0, 5389.0, 5407.0, 5366.0, 5669.0, 5261.0, 5676.0, 5289.0, 5315.0, 5699.0, 5567.0, 5280.0, 5357.0, 5265.0, 5372.0, 5631.0, 5620.0, 5585.0, 5634.0, 5541.0, 5386.0, 5378.0, 5586.0, 5361.0, 5287.0, 5328.0, 5320.0, 5563.0, 5663.0, 5475.0, 5535.0, 5449.0, 5288.0, 5525.0, 5713.0, 5537.0, 5436.0, 5398.0, 5616.0, 5575.0, 5430.0, 5709.0, 5250.0, 5465.0, 5482.0, 5492.0, 5342.0, 5514.0, 5569.0, 5499.0, 5457.0, 5392.0, 5279.0, 5562.0, 5467.0, 5385.0, 5666.0, 5515.0, 5369.0, 5653.0, 5282.0, 5470.0, 5391.0, 5538.0, 5476.0, 5604.0, 5388.0, 5266.0, 5394.0, 5364.0, 5618.0, 5263.0, 5611.0, 5456.0, 5445.0, 5696.0, 5531.0, 5522.0, 5297.0, 5674.0, 5509.0, 5712.0, 5427.0, 5348.0, 5269.0, 5310.0, 5455.0, 5554.0, 5673.0, 5272.0, 5254.0, 5259.0, 5601.0, 5578.0, 5468.0, 5657.0, 5251.0, 5283.0, 5257.0, 5410.0 (number of hits: 3)
18	5500.0	9	1.0	333	1	5290.0, 5468.0, 5270.0, 5611.0, 5343.0, 5567.0, 5317.0, 5402.0, 5434.0, 5625.0, 5405.0, 5678.0, 5710.0, 5588.0, 5615.0, 5289.0, 5397.0, 5449.0, 5594.0, 5705.0, 5580.0, 5708.0, 5585.0, 5351.0, 5569.0, 5605.0, 5447.0, 5288.0, 5332.0, 5598.0, 5690.0, 5491.0, 5367.0, 5613.0, 5353.0, 5469.0, 5668.0, 5722.0, 5575.0, 5302.0, 5492.0, 5260.0, 5376.0, 5631.0, 5561.0, 5524.0, 5544.0, 5515.0, 5560.0, 5272.0, 5382.0, 5286.0, 5522.0, 5614.0, 5439.0, 5423.0, 5700.0, 5513.0, 5322.0, 5696.0, 5642.0, 5479.0, 5608.0, 5285.0, 5516.0, 5304.0, 5466.0, 5719.0, 5307.0, 5626.0, 5648.0, 5412.0, 5312.0, 5595.0, 5548.0, 5298.0, 5592.0, 5552.0, 5421.0, 5331.0, 5401.0, 5363.0, 5328.0, 5505.0, 5279.0, 5607.0, 5699.0, 5316.0, 5263.0, 5535.0, 5287.0, 5255.0, 5536.0, 5576.0, 5411.0, 5450.0, 5377.0, 5645.0, 5556.0, 5442.0 (number of hits: 3)
19	5500.0	9	1.0	333	1	5519.0, 5334.0, 5325.0, 5289.0, 5703.0, 5380.0, 5479.0, 5416.0, 5600.0, 5641.0, 5721.0, 5318.0, 5521.0, 5527.0, 5633.0, 5580.0, 5691.0, 5538.0, 5629.0, 5547.0, 5293.0, 5314.0, 5467.0, 5284.0, 5685.0, 5304.0, 5434.0, 5640.0, 5412.0, 5344.0, 5349.0, 5593.0, 5359.0, 5433.0, 5520.0, 5553.0, 5481.0, 5591.0, 5542.0, 5581.0, 5450.0, 5458.0, 5534.0, 5543.0, 5501.0, 5679.0, 5511.0, 5606.0, 5583.0, 5474.0, 5288.0, 5571.0, 5522.0, 5525.0, 5696.0, 5488.0, 5341.0, 5471.0, 5502.0, 5628.0, 5285.0, 5253.0, 5650.0, 5530.0, 5448.0, 5582.0, 5656.0, 5624.0, 5283.0, 5436.0, 5517.0, 5321.0, 5630.0, 5294.0, 5260.0, 5612.0, 5664.0, 5358.0, 5578.0, 5674.0, 5608.0, 5687.0, 5509.0, 5704.0, 5369.0, 5308.0, 5636.0, 5273.0, 5258.0, 5457.0, 5626.0, 5310.0, 5267.0, 5379.0, 5282.0, 5342.0, 5271.0, 5415.0, 5414.0, 5361.0 (number of hits: 3)
20	5500.0	9	1.0	333	1	5645.0, 5289.0, 5399.0, 5705.0, 5685.0, 5694.0, 5505.0, 5326.0, 5537.0, 5558.0, 5717.0, 5468.0, 5411.0, 5259.0, 5400.0, 5693.0, 5361.0, 5592.0, 5704.0, 5453.0, 5407.0, 5509.0, 5676.0, 5476.0, 5345.0, 5470.0, 5510.0, 5333.0, 5322.0, 5570.0, 5434.0, 5548.0, 5581.0, 5270.0, 5579.0, 5440.0, 5683.0, 5412.0, 5555.0, 5358.0, 5631.0, 5253.0, 5682.0, 5553.0, 5542.0, 5518.0, 5695.0, 5583.0, 5615.0, 5604.0, 5403.0, 5335.0, 5267.0, 5319.0, 5455.0, 5349.0, 5459.0, 5446.0, 5527.0, 5340.0, 5308.0, 5364.0, 5252.0, 5427.0, 5521.0, 5374.0, 5662.0, 5347.0, 5674.0, 5657.0, 5472.0, 5396.0, 5338.0, 5305.0, 5443.0, 5301.0, 5404.0, 5346.0, 5330.0, 5380.0, 5640.0, 5572.0, 5633.0, 5536.0, 5613.0, 5309.0, 5594.0, 5577.0, 5332.0, 5718.0, 5535.0, 5262.0, 5689.0, 5569.0, 5612.0, 5698.0, 5299.0, 5379.0,

						5467.0, 5417.0 (number of hits: 2)
21	5500.0	9	1.0	333	1	5533.0, 5316.0, 5600.0, 5276.0, 5340.0, 5539.0, 5618.0, 5371.0, 5282.0, 5507.0, 5334.0, 5546.0, 5579.0, 5706.0, 5547.0, 5671.0, 5652.0, 5619.0, 5447.0, 5342.0, 5615.0, 5288.0, 5561.0, 5333.0, 5300.0, 5435.0, 5493.0, 5607.0, 5712.0, 5422.0, 5588.0, 5658.0, 5616.0, 5556.0, 5327.0, 5315.0, 5287.0, 5511.0, 5328.0, 5575.0, 5432.0, 5258.0, 5431.0, 5359.0, 5464.0, 5592.0, 5723.0, 5513.0, 5693.0, 5669.0, 5358.0, 5548.0, 5278.0, 5582.0, 5269.0, 5401.0, 5622.0, 5690.0, 5549.0, 5509.0, 5602.0, 5444.0, 5502.0, 5666.0, 5369.0, 5411.0, 5589.0, 5407.0, 5457.0, 5433.0, 5702.0, 5633.0, 5302.0, 5599.0, 5421.0, 5526.0, 5280.0, 5392.0, 5274.0, 5643.0, 5680.0, 5487.0, 5330.0, 5347.0, 5484.0, 5560.0, 5430.0, 5307.0, 5699.0, 5419.0, 5630.0, 5412.0, 5594.0, 5491.0, 5624.0, 5516.0, 5428.0, 5420.0, 5614.0, 5659.0 (number of hits: 5)
22	5500.0	9	1.0	333	1	5462.0, 5535.0, 5470.0, 5572.0, 5565.0, 5652.0, 5372.0, 5292.0, 5598.0, 5650.0, 5331.0, 5393.0, 5449.0, 5318.0, 5446.0, 5475.0, 5381.0, 5694.0, 5512.0, 5496.0, 5511.0, 5458.0, 5328.0, 5707.0, 5659.0, 5481.0, 5713.0, 5604.0, 5277.0, 5386.0, 5660.0, 5692.0, 5371.0, 5569.0, 5661.0, 5575.0, 5464.0, 5314.0, 5404.0, 5465.0, 5627.0, 5588.0, 5576.0, 5355.0, 5606.0, 5324.0, 5251.0, 5391.0, 5716.0, 5619.0, 5448.0, 5478.0, 5418.0, 5671.0, 5471.0, 5595.0, 5631.0, 5719.0, 5676.0, 5657.0, 5253.0, 5483.0, 5485.0, 5342.0, 5369.0, 5554.0, 5514.0, 5622.0, 5401.0, 5424.0, 5670.0, 5647.0, 5389.0, 5281.0, 5688.0, 5552.0, 5338.0, 5501.0, 5455.0, 5460.0, 5695.0, 5287.0, 5459.0, 5612.0, 5463.0, 5714.0, 5308.0, 5530.0, 5551.0, 5254.0, 5655.0, 5444.0, 5580.0, 5414.0, 5454.0, 5590.0, 5542.0, 5330.0, 5561.0, 5392.0 (number of hits: 2)
23	5500.0	9	1.0	333	1	5301.0, 5315.0, 5683.0, 5527.0, 5364.0, 5584.0, 5587.0, 5407.0, 5350.0, 5459.0, 5663.0, 5676.0, 5583.0, 5423.0, 5685.0, 5667.0, 5655.0, 5323.0, 5652.0, 5396.0, 5259.0, 5688.0, 5573.0, 5633.0, 5431.0, 5606.0, 5593.0, 5582.0, 5673.0, 5339.0, 5594.0, 5322.0, 5409.0, 5517.0, 5320.0, 5251.0, 5269.0, 5306.0, 5432.0, 5551.0, 5681.0, 5494.0, 5454.0, 5653.0, 5556.0, 5538.0, 5603.0, 5304.0, 5474.0, 5267.0, 5257.0, 5256.0, 5316.0, 5601.0, 5367.0, 5465.0, 5443.0, 5260.0, 5669.0, 5340.0, 5643.0, 5691.0, 5357.0, 5590.0, 5429.0, 5347.0, 5656.0, 5500.0, 5518.0, 5585.0, 5627.0, 5294.0, 5589.0, 5532.0, 5660.0, 5563.0, 5569.0, 5484.0, 5599.0, 5436.0, 5321.0, 5712.0, 5353.0, 5268.0, 5645.0, 5373.0, 5483.0, 5295.0, 5305.0, 5701.0, 5618.0, 5460.0, 5622.0, 5686.0, 5690.0, 5680.0, 5543.0, 5535.0, 5462.0, 5687.0 (number of hits: 2)
24	5500.0	9	1.0	333	1	5407.0, 5334.0, 5471.0, 5326.0, 5468.0, 5521.0, 5585.0, 5665.0, 5534.0, 5375.0, 5508.0, 5708.0, 5540.0, 5661.0, 5387.0, 5716.0, 5486.0, 5487.0, 5557.0, 5284.0, 5398.0, 5644.0, 5335.0, 5439.0, 5626.0, 5675.0, 5305.0, 5322.0, 5532.0, 5547.0, 5596.0, 5436.0, 5365.0, 5615.0, 5400.0, 5451.0, 5688.0, 5538.0, 5282.0, 5269.0, 5686.0, 5348.0, 5397.0, 5520.0, 5652.0, 5253.0, 5453.0, 5711.0, 5672.0, 5701.0, 5717.0, 5281.0, 5705.0, 5347.0, 5386.0, 5683.0, 5270.0, 5404.0, 5578.0, 5702.0, 5437.0, 5528.0, 5654.0, 5382.0, 5325.0, 5356.0, 5323.0, 5418.0, 5634.0, 5635.0, 5568.0, 5556.0, 5445.0, 5670.0, 5353.0, 5288.0, 5638.0, 5377.0, 5290.0, 5266.0, 5440.0, 5395.0, 5256.0, 5339.0, 5577.0, 5381.0, 5514.0, 5277.0, 5417.0, 5542.0, 5598.0, 5584.0, 5350.0, 5593.0, 5456.0, 5555.0, 5710.0, 5263.0, 5280.0, 5357.0 (number of hits: 1)

25	5500.0	9	1.0	333	1	5323.0, 5311.0, 5472.0, 5318.0, 5303.0, 5445.0, 5486.0, 5576.0, 5292.0, 5440.0, 5678.0, 5561.0, 5312.0, 5338.0, 5407.0, 5541.0, 5500.0, 5593.0, 5636.0, 5509.0, 5364.0, 5349.0, 5316.0, 5623.0, 5322.0, 5442.0, 5526.0, 5698.0, 5617.0, 5705.0, 5319.0, 5384.0, 5299.0, 5691.0, 5535.0, 5523.0, 5648.0, 5430.0, 5622.0, 5332.0, 5707.0, 5424.0, 5426.0, 5444.0, 5365.0, 5594.0, 5655.0, 5464.0, 5259.0, 5676.0, 5556.0, 5346.0, 5679.0, 5515.0, 5283.0, 5335.0, 5620.0, 5568.0, 5449.0, 5300.0, 5626.0, 5305.0, 5263.0, 5321.0, 5684.0, 5390.0, 5383.0, 5675.0, 5396.0, 5606.0, 5605.0, 5301.0, 5609.0, 5478.0, 5447.0, 5344.0, 5386.0, 5382.0, 5358.0, 5258.0, 5342.0, 5391.0, 5469.0, 5494.0, 5712.0, 5320.0, 5495.0, 5539.0, 5284.0, 5326.0, 5664.0, 5685.0, 5554.0, 5683.0, 5477.0, 5397.0, 5614.0, 5635.0, 5603.0, 5446.0 (number of hits: 4)
26	5500.0	9	1.0	333	1	5438.0, 5415.0, 5431.0, 5599.0, 5608.0, 5580.0, 5314.0, 5587.0, 5644.0, 5477.0, 5487.0, 5586.0, 5414.0, 5645.0, 5469.0, 5698.0, 5505.0, 5551.0, 5475.0, 5386.0, 5321.0, 5256.0, 5474.0, 5320.0, 5582.0, 5356.0, 5507.0, 5454.0, 5575.0, 5301.0, 5479.0, 5278.0, 5660.0, 5325.0, 5618.0, 5341.0, 5317.0, 5652.0, 5400.0, 5683.0, 5526.0, 5502.0, 5564.0, 5647.0, 5577.0, 5497.0, 5459.0, 5273.0, 5481.0, 5337.0, 5334.0, 5329.0, 5565.0, 5476.0, 5501.0, 5703.0, 5523.0, 5661.0, 5688.0, 5269.0, 5374.0, 5445.0, 5277.0, 5486.0, 5720.0, 5651.0, 5473.0, 5471.0, 5504.0, 5680.0, 5535.0, 5260.0, 5634.0, 5255.0, 5704.0, 5489.0, 5554.0, 5439.0, 5295.0, 5453.0, 5544.0, 5702.0, 5508.0, 5338.0, 5456.0, 5284.0, 5410.0, 5393.0, 5373.0, 5266.0, 5603.0, 5623.0, 5659.0, 5448.0, 5466.0, 5529.0, 5367.0, 5470.0, 5458.0, 5675.0 (number of hits: 7)
27	5500.0	9	1.0	333	1	5706.0, 5570.0, 5602.0, 5613.0, 5634.0, 5624.0, 5514.0, 5503.0, 5408.0, 5296.0, 5674.0, 5724.0, 5482.0, 5650.0, 5450.0, 5400.0, 5651.0, 5669.0, 5547.0, 5715.0, 5666.0, 5363.0, 5533.0, 5626.0, 5501.0, 5662.0, 5537.0, 5471.0, 5672.0, 5610.0, 5608.0, 5479.0, 5486.0, 5312.0, 5332.0, 5720.0, 5290.0, 5694.0, 5472.0, 5440.0, 5324.0, 5510.0, 5383.0, 5698.0, 5374.0, 5541.0, 5493.0, 5320.0, 5505.0, 5477.0, 5448.0, 5447.0, 5531.0, 5437.0, 5252.0, 5681.0, 5524.0, 5278.0, 5711.0, 5588.0, 5307.0, 5344.0, 5515.0, 5460.0, 5559.0, 5658.0, 5315.0, 5388.0, 5546.0, 5485.0, 5302.0, 5654.0, 5693.0, 5260.0, 5612.0, 5430.0, 5506.0, 5294.0, 5623.0, 5667.0, 5418.0, 5615.0, 5303.0, 5523.0, 5283.0, 5359.0, 5695.0, 5333.0, 5580.0, 5707.0, 5566.0, 5593.0, 5607.0, 5492.0, 5519.0, 5545.0, 5708.0, 5538.0, 5605.0, 5421.0 (number of hits: 6)
28	5500.0	9	1.0	333	1	5513.0, 5415.0, 5340.0, 5457.0, 5526.0, 5716.0, 5502.0, 5616.0, 5412.0, 5585.0, 5357.0, 5416.0, 5341.0, 5686.0, 5705.0, 5430.0, 5439.0, 5289.0, 5334.0, 5560.0, 5270.0, 5564.0, 5321.0, 5399.0, 5601.0, 5469.0, 5471.0, 5364.0, 5584.0, 5307.0, 5294.0, 5438.0, 5426.0, 5497.0, 5443.0, 5356.0, 5326.0, 5556.0, 5702.0, 5611.0, 5290.0, 5599.0, 5508.0, 5710.0, 5484.0, 5522.0, 5533.0, 5444.0, 5655.0, 5376.0, 5721.0, 5534.0, 5517.0, 5642.0, 5315.0, 5537.0, 5667.0, 5383.0, 5373.0, 5297.0, 5598.0, 5625.0, 5368.0, 5528.0, 5697.0, 5665.0, 5258.0, 5320.0, 5408.0, 5311.0, 5621.0, 5386.0, 5550.0, 5562.0, 5494.0, 5351.0, 5350.0, 5318.0, 5491.0, 5413.0, 5268.0, 5427.0, 5367.0, 5359.0, 5394.0, 5251.0, 5398.0, 5349.0, 5558.0, 5253.0, 5514.0, 5553.0, 5498.0, 5288.0, 5645.0, 5682.0, 5486.0, 5461.0, 5464.0, 5567.0 (number of hits: 6)
29	5500.0	9	1.0	333	1	5688.0, 5260.0, 5443.0, 5658.0, 5376.0, 5357.0, 5380.0,

						5277.0, 5499.0, 5331.0, 5536.0, 5349.0, 5647.0, 5454.0, 5272.0, 5353.0, 5414.0, 5264.0, 5661.0, 5716.0, 5307.0, 5666.0, 5680.0, 5554.0, 5352.0, 5534.0, 5696.0, 5456.0, 5511.0, 5433.0, 5328.0, 5440.0, 5372.0, 5713.0, 5531.0, 5636.0, 5302.0, 5612.0, 5453.0, 5509.0, 5641.0, 5541.0, 5695.0, 5384.0, 5628.0, 5426.0, 5640.0, 5673.0, 5613.0, 5476.0, 5588.0, 5363.0, 5257.0, 5441.0, 5562.0, 5383.0, 5387.0, 5424.0, 5633.0, 5657.0, 5610.0, 5366.0, 5480.0, 5608.0, 5498.0, 5503.0, 5718.0, 5449.0, 5566.0, 5677.0, 5393.0, 5700.0, 5470.0, 5389.0, 5485.0, 5279.0, 5494.0, 5649.0, 5553.0, 5565.0, 5662.0, 5268.0, 5591.0, 5299.0, 5448.0, 5550.0, 5318.0, 5655.0, 5410.0, 5639.0, 5416.0, 5265.0, 5379.0, 5529.0, 5517.0, 5585.0, 5512.0, 5252.0, 5597.0, 5289.0 (number of hits: 5)
30	5500.0	9	1.0	333	0	

P2P Mode

Cobalt Radio

5510 MHz, 40 MHz Bandwidth

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1A/1B	30	100 %	60%	Pass
Type 2	30	83.3 %	60%	Pass
Type 3	30	73.3 %	60%	Pass
Type 4	30	66.7 %	60%	Pass
Aggregate (Type1 to 4)	120	80.8 %	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	59	1.0	898	1
2	62	1.0	858	1
3	58	1.0	918	1
4	89	1.0	598	1
5	67	1.0	798	1
6	83	1.0	638	1
7	81	1.0	658	1
8	63	1.0	838	1
9	57	1.0	938	1
10	72	1.0	738	1
11	65	1.0	818	1
12	95	1.0	558	1
13	76	1.0	698	1
14	92	1.0	578	1
15	68	1.0	778	1
16	67	1.0	794	1
17	41	1.0	1290	1
18	36	1.0	1492	1
19	31	1.0	1751	1
20	36	1.0	1489	1
21	31	1.0	1706	1
22	32	1.0	1694	1
23	44	1.0	1201	1
24	38	1.0	1413	1
25	93	1.0	570	1
26	101	1.0	525	1
27	24	1.0	2291	1
28	24	1.0	2238	1
29	37	1.0	1465	1
30	21	1.0	2554	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	26	3.7	225	1
2	24	4.7	205	1
3	28	3.5	188	0
4	23	3.0	205	1
5	29	3.2	159	1
6	26	3.2	188	1
7	24	3.3	192	1
8	24	3.9	207	0
9	29	1.3	170	1
10	28	2.2	159	1
11	26	2.5	158	1
12	29	4.4	219	1
13	29	4.2	168	1
14	28	4.2	181	1
15	29	3.5	229	1
16	24	3.9	193	1
17	24	4.4	160	1
18	23	5.0	176	0
19	27	1.9	175	1
20	29	1.3	195	1
21	27	4.7	186	1
22	27	4.6	165	1
23	24	1.6	192	1
24	29	1.1	157	0
25	27	4.6	217	1
26	26	1.4	151	1
27	25	1.3	230	0
28	27	2.7	223	1
29	24	4.7	177	1
30	27	1.5	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	9.5	478	0
2	16	6.1	211	1
3	16	9.1	419	0
4	17	8.0	342	0
5	17	9.6	422	1
6	16	9.5	241	1
7	18	6.4	261	1
8	16	7.0	448	1
9	17	6.9	269	1
10	16	8.5	274	1
11	17	6.1	258	1
12	18	9.0	327	1
13	16	9.8	263	1
14	18	7.7	339	0
15	17	8.5	376	1
16	18	8.8	386	1
17	18	9.0	306	0
18	18	6.8	438	1
19	16	8.1	488	1
20	16	8.9	391	1
21	16	8.6	228	1
22	17	6.0	495	1
23	18	6.4	227	0
24	18	7.7	295	1
25	17	6.8	398	1
26	16	6.9	344	1
27	16	9.9	424	0
28	18	7.2	429	1
29	18	7.9	500	0
30	17	6.1	230	1
Detection Percentage: 73.3 % (>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	13	16.5	425	0
2	16	18.3	410	0
3	13	15.2	213	0
4	15	15.7	350	0
5	13	16.9	349	1
6	13	19.0	470	0
7	13	13.2	250	1
8	16	11.1	240	1
9	13	14.6	383	1
10	14	14.5	253	0
11	15	13.9	338	1
12	14	12.8	223	1
13	16	17.0	392	1
14	13	15.5	378	1
15	13	19.2	371	1
16	15	14.3	343	1
17	16	14.1	257	1
18	16	17.7	308	1
19	13	11.9	369	1
20	13	18.4	372	1
21	13	16.9	476	0
22	14	19.3	479	1
23	13	11.9	496	1
24	14	18.6	254	1
25	16	15.2	267	1
26	12	12.8	354	0
27	13	16.5	267	1
28	14	13.2	363	1
29	13	18.6	466	0
30	16	14.2	370	0
Detection Percentage: 66.7 % (>60%)				

Table-5 Radar Type 5 Statistical Performance

Trial #	Fc (MHz)	Detection (1:yes; 0:no)
1	5510.0	1
2	5510.0	1
3	5510.0	1
4	5510.0	1
5	5510.0	1
6	5510.0	1
7	5510.0	1
8	5510.0	1
9	5510.0	1
10	5510.0	1
11	5498.0	1
12	5499.0	1
13	5497.0	1
14	5496.0	1
15	5499.0	1
16	5496.0	1
17	5500.0	1
18	5496.0	1
19	5496.0	1
20	5496.0	1
21	5524.2	1
22	5525.8	1
23	5521.8	1
24	5523.0	1
25	5521.8	1
26	5522.6	1
27	5521.0	1
28	5521.4	1
29	5523.0	1
30	5524.2	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	14	64.7	1025		0.590989	1
1	2	14	77.9	1719		0.986854	
2	1	14	58.7			1.767098	
3	1	14	82.1			2.788052	
4	3	14	70.9	1390	1595	3.430931	
5	2	14	53.9	1175		3.786058	
6	1	14	58.3			4.879471	
7	1	14	59.9			5.871849	
8	2	14	70.7	1089		6.575512	
9	1	14	69.0			6.775142	
10	2	14	90.1	1651		7.928467	
11	1	14	65.8			8.269807	
12	2	14	84.1	1830		9.656219	
13	2	14	51.3	1569		10.413443	
14	1	14	68.4			11.221988	
15	2	14	52.0	1727		11.743055	

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	7	77.1			0.451772	1
1	2	7	71.2	1489		1.621069	
2	2	7	95.9	1700		2.061301	
3	2	7	80.6	1382		2.793678	
4	2	7	54.2	1151		4.026583	
5	3	7	71.5	1735	1974	4.926501	
6	1	7	98.5			5.422066	
7	1	7	52.7			6.560625	
8	2	7	93.0	1785		6.958590	
9	2	7	85.2	1464		8.404580	
10	1	7	69.7			8.868686	
11	3	7	67.4	1751	1833	10.168764	
12	1	7	51.5			10.403004	
13	3	7	73.5	1415	1558	11.544650	

Bin5 Statistics 3

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	11	92.3			0.114888	1
1	1	11	87.3			1.727876	
2	2	11	63.0	1348		3.470794	
3	1	11	95.3			4.637933	
4	3	11	71.5	1422	1600	4.829233	
5	2	11	66.7	1761		6.698509	
6	1	11	80.6			8.244145	
7	3	11	70.3	1349	1876	9.210370	
8	2	11	87.4	1110		9.686151	
9	2	11	71.1	1167		11.629065	

Bin5 Statistics 4

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	10	84.8	1771	1104	0.841255	1
1	2	10	57.4	1855		1.356093	
2	2	10	79.4	1107		2.179392	
3	2	10	77.4	1550		3.256534	
4	2	10	60.4	1270		3.980621	
5	2	10	96.1	1492		4.821383	
6	2	10	86.0	1975		6.066482	
7	2	10	53.2	1317		7.018165	
8	3	10	54.2	1649	1940	8.082719	
9	2	10	86.1	1378		8.966380	
10	2	10	91.8	1620		9.680181	
11	1	10	95.8			10.917283	
12	1	10	58.7			11.937337	

Bin5 Statistics 5

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	12	86.4	1954		0.785263	
1	2	12	77.2	1443		0.997431	
2	1	12	53.9			2.401980	
3	3	12	80.6	1892	1137	2.800853	
4	1	12	90.9			4.180321	
5	3	12	72.2	1609	1760	4.838491	
6	1	12	91.5			6.023084	1
7	2	12	80.7	1763		6.847050	
8	2	12	65.0	1633		8.033280	
9	2	12	92.0	1700		9.053660	
10	3	12	91.3	1166	1762	9.980120	
11	2	12	88.4	1019		10.465769	
12	2	12	68.1	1316		11.609712	

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	11	64.3			0.008933	
1	2	11	98.6	1850		1.544538	
2	3	11	74.3	1218	1422	1.864634	
3	1	11	60.1			3.207893	
4	2	11	66.7	1437		4.347683	
5	3	11	63.9	1112	1245	5.411809	
6	1	11	95.7			6.446719	1
7	1	11	88.1			6.524391	
8	2	11	51.5	1963		7.458598	
9	2	11	57.7	1672		8.741208	
10	2	11	86.9	1723		9.377534	
11	2	11	96.9	1557		10.638768	
12	1	11	78.2			11.792186	

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	14	79.8	1565		0.228299	1
1	2	14	88.5	1465		0.755802	
2	3	14	81.5	1112	1368	1.672862	
3	1	14	62.9			2.335448	
4	1	14	60.1			3.490038	
5	3	14	61.3	1809	1009	3.922598	
6	2	14	77.4	1681		4.692928	
7	2	14	81.1	1545		5.572756	
8	3	14	78.1	1987	1641	6.495807	
9	1	14	77.2			6.918572	
10	2	14	99.7	1777		7.959484	
11	1	14	68.8			8.409818	
12	2	14	90.0	1041		9.570626	
13	2	14	75.1	1994		10.102539	
14	2	14	92.1	1734		10.751129	
15	2	14	56.0	1768		11.933413	

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	59.9	1347		0.030880	1
1	3	11	61.9	1528	1787	0.807396	
2	2	11	50.6	1102		1.558155	
3	3	11	76.1	1999	1529	2.331919	
4	1	11	74.5			2.787937	
5	1	11	60.0			3.440230	
6	3	11	86.6	1166	1042	4.123031	
7	2	11	74.2	1694		5.169121	
8	3	11	85.0	1209	1215	5.806850	
9	3	11	92.6	1805	1697	6.366936	
10	1	11	72.7			6.934737	
11	2	11	70.2	1397		7.719683	
12	2	11	93.9	1522		8.517615	
13	3	11	85.4	1460	1158	9.054196	
14	1	11	88.2			9.408940	
15	2	11	83.6	1231		10.426034	
16	3	11	52.2	1615	1044	11.045411	
17	2	11	98.4	1543		11.730756	

Bin5 Statistics 9

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	9	90.8	1215		0.258550	
1	2	9	78.5	1136		1.103333	
2	3	9	75.9	1279	1121	1.610744	
3	3	9	88.2	1617	1697	2.315291	
4	2	9	67.0	1497		2.702775	
5	2	9	76.8	1938		3.580555	
6	2	9	52.6	1383		4.225094	
7	3	9	80.5	1369	1036	4.641986	
8	2	9	98.5	1304		5.555111	
9	3	9	79.0	1831	1848	5.819079	1
10	2	9	70.3	1735		6.552311	
11	1	9	50.6			7.289226	
12	3	9	81.4	1330	1083	7.704830	
13	2	9	99.6	1396		8.758846	
14	1	9	77.2			9.051503	
15	2	9	68.8	1350		9.948956	
16	2	9	89.1	1877		10.527108	
17	2	9	83.7	1119		11.246345	
18	3	9	78.1	1637	1429	11.747364	

Bin5 Statistics 10

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	10	50.2	1861	1452	0.334617	1
1	3	10	60.9	1470	1775	1.155764	
2	2	10	63.4	1902		2.082567	
3	3	10	73.6	1054	1600	3.049699	
4	1	10	62.4			4.218330	
5	2	10	81.5	1270		5.016666	
6	2	10	77.6	1162		5.331869	
7	2	10	65.3	1020		6.208657	
8	1	10	60.8			6.858617	
9	2	10	56.1	1367		8.437457	
10	3	10	64.2	1335	1610	9.331912	
11	2	10	61.2	1524		10.152555	
12	2	10	91.2	1052		10.582268	
13	2	10	87.8	1778		11.642862	

Bin5 Statistics 11

Trial #	Burst Offset (µS)	Pulse Width (µS	Chirp (MHz)	Pulse	PRI-1 (µS)	PRI-2 (µS)	PRI-3 (µS)	Detection (1:yes; 0:no)
0	209249	73.7	16	2	1208	1497	-	
1	378386	97.4	16	3	1942	1754	1613	
2	548411	91.7	16	3	1999	1702	1462	
3	17733	66.2	16	1	1393	-	-	
4	187952	70.8	16	2	1968	1821	-	
5	359277	52.3	16	1	1740	-	-	
6	528886	78.9	16	2	1308	1984	-	
7	700166	70.9	16	2	1050	1358	-	
8	167197	75.6	16	2	1437	1430	-	1
9	338262	59.1	16	1	1697	-	-	
10	508324	77	16	2	1397	1304	-	
11	678689	67.9	16	2	1803	1083	-	
12	146031	81.2	16	2	1720	1932	-	
13	316923	78.7	16	2	1247	1121	-	
14	488056	63.3	16	1	1634	-	-	
15	657326	68.9	16	2	1849	1423	-	
16	125509	59.3	16	2	1093	-	-	

Bin5 Statistics 12

Trial #	Burst Offset (µS)	Pulse Width (µS	Chirp (MHz)	Pulse	PRI-1 (µS)	PRI-2 (µS)	PRI-3 (µS)	Detection (1:yes; 0:no)
0	263736	98.9	19	3	1381	1680	1488	
1	416459	82.3	19	2	1716	1855	-	
2	567902	86.7	19	3	1211	1400	1919	
3	92979	89.7	19	3	1861	1068	1282	
4	245155	98.6	19	3	1507	1194	1461	
5	397609	71.1	19	2	1921	1789	-	
6	551431	55.9	19	1	1947	-	-	
7	74413	67.9	19	2	1350	1372	-	
8	226559	84.4	19	3	1203	1107	1443	
9	380056	58.8	19	1	1715	-	-	1
10	533408	65.6	19	1	1017	-	-	
11	55547	78.5	19	2	1911	1704	-	
12	207876	82.3	19	2	1845	1686	-	
13	359771	90.1	19	3	1938	1071	1266	
14	511297	90.2	19	3	1989	1089	1950	
15	36803	83.1	19	2	1943	1406	-	
16	189652	58.8	19	1	1742	-	-	
17	341809	77	19	2	1187	1657	-	
18	495737	55	19	1	1012	-	-	

Bin5 Statistics 13

Trial #	Burst Offset (µS)	Pulse Width (µS	Chirp (MHz)	Pulse	PRI-1 (µS)	PRI-2 (µS)	PRI-3 (µS)	Detection (1:yes; 0:no)
0	22911	58.1	13	1	1929	-	-	1
1	216473	52.1	13	1	1910	-	-	
2	410004	59.9	13	1	1971	-	-	
3	603671	60.2	13	1	1812	-	-	
4	794160	95.9	13	3	1399	1906	1608	
5	192251	79.9	13	2	1626	1859	-	
6	385590	78.5	13	2	1238	1917	-	
7	579862	53.8	13	1	1763	-	-	
8	773423	64.7	13	1	1800	-	-	
9	168898	61.4	13	1	1390	-	-	
10	361606	83.2	13	2	1692	1858	-	
11	553866	84.7	13	3	1533	1677	1638	
12	747241	88.7	13	3	1703	1528	1058	
13	144710	78.3	13	2	1258	1951	-	
14	337856	69.3	13	2	1731	1717	-	

Bin5 Statistics 14

Trial #	Burst Offset (µS)	Pulse Width (µS	Chirp (MHz)	Pulse	PRI-1 (µS)	PRI-2 (µS)	PRI-3 (µS)	Detection (1:yes; 0:no)
0	664275	75.3	10	2	1994	1612	-	1
1	907886	56.3	10	1	1456	-	-	
2	151316	67.7	10	2	1617	1185	-	
3	393746	55.6	10	1	1337	-	-	
4	635093	75.2	10	2	1421	1267	-	
5	876993	76.3	10	2	1359	1305	-	
6	121278	85.7	10	3	1547	1362	1924	
7	362696	98.4	10	3	1873	1550	1249	
8	604342	86.4	10	3	1779	1439	1046	
9	846453	93.6	10	3	1059	1031	1452	
10	91871	63.3	10	1	1328	-	-	
11	333050	92.4	10	3	1412	1673	1322	

Bin5 Statistics 15

Trial #	Burst Offset (µS)	Pulse Width (µS	Chirp (MHz)	Pulse	PRI-1 (µS)	PRI-2 (µS)	PRI-3 (µS)	Detection (1:yes; 0:no)
0	361323	93.3	18	3	1983	1912	1535	
1	515261	69.1	18	2	1102	1794	-	
2	39025	86.9	18	3	1044	1152	1148	
3	190900	84.9	18	3	1894	1948	1118	
4	343941	72.3	18	2	1094	1916	-	
5	497624	51.7	18	1	1447	-	-	
6	20319	58.3	18	1	1429	-	-	
7	172999	60.8	18	1	1979	-	-	
8	325872	57.1	18	1	1641	-	-	
9	475841	88.9	18	3	1886	1964	1489	1
10	1489	72	18	2	1909	1297	-	
11	153647	90.9	18	3	1261	1566	1370	
12	307096	59.8	18	1	1552	-	-	
13	458804	70	18	2	1759	1291	-	
14	610798	67.2	18	2	1625	1881	-	
15	134759	91.2	18	3	1382	1832	1661	
16	288306	56.5	18	1	1483	-	-	
17	441296	51.2	18	1	1237	-	-	
18	592780	74.1	18	2	1471	1245	-	

Bin5 Statistics 16

Trial #	Burst Offset (µS)	Pulse Width (µS	Chirp (MHz)	Pulse	PRI-1 (µS)	PRI-2 (µS)	PRI-3 (µS)	Detection (1:yes; 0:no)
0	158286	76.9	12	2	1110	1140	-	
1	366024	50.2	12	1	1316	-	-	
2	573452	62.9	12	1	1520	-	-	
3	780619	64.7	12	1	1902	-	-	
4	132455	83.8	12	3	1410	1097	1621	
5	340207	65.4	12	1	1944	-	-	
6	548208	53.2	12	1	1024	-	-	
7	755333	51.7	12	1	1603	-	-	1
8	107117	78.7	12	2	1804	1168	-	
9	314500	72.4	12	2	1030	1343	-	
10	522447	53.8	12	1	1327	-	-	
11	728517	73.6	12	2	1524	1553	-	
12	81611	66.7	12	2	1722	1122	-	
13	288948	82.5	12	2	1404	1019	-	

Bin5 Statistics 17

Trial #	Burst Offset (µS)	Pulse Width (µS	Chirp (MHz)	Pulse	PRI-1 (µS)	PRI-2 (µS)	PRI-3 (µS)	Detection (1:yes; 0:no)
0	345766	87.6	20	3	1565	1055	1840	
1	490019	85.2	20	3	1735	1541	1408	
2	39073	84.8	20	3	1534	1889	1463	
3	183923	77.9	20	2	1749	1460	-	
4	328777	76.5	20	2	1518	1485	-	
5	474728	60.9	20	1	1540	-	-	
6	21394	83	20	2	1080	1010	-	
7	165992	80.4	20	2	1824	1752	-	
8	310973	67.5	20	2	1764	1181	-	
9	456884	62.1	20	1	1495	-	-	
10	3515	86.4	20	3	1773	1966	1263	1
11	147928	84.3	20	3	1593	1188	1788	
12	293225	76.9	20	2	1226	1537	-	
13	436922	95.8	20	3	1192	1298	1844	
14	584015	55.2	20	1	1644	-	-	
15	130832	59	20	1	1402	-	-	
16	274684	94.5	20	3	1296	1700	1283	
17	418579	91.9	20	3	1970	1978	1165	
18	563464	85.2	20	3	1732	1551	1189	
19	112787	69.5	20	2	1038	1224	-	

Bin5 Statistics 18

Trial #	Burst Offset (µS)	Pulse Width (µS	Chirp (MHz)	Pulse	PRI-1 (µS)	PRI-2 (µS)	PRI-3 (µS)	Detection (1:yes; 0:no)
0	429224	86.4	10	3	1259	1918	1455	1
1	670241	92.2	10	3	1598	1719	1895	
2	912880	80.4	10	2	1816	1899	-	
3	158603	54.3	10	1	1335	-	-	
4	400824	53.1	10	1	1303	-	-	
5	641915	69.4	10	2	1503	1546	-	
6	883823	69.1	10	2	1279	1639	-	
7	128373	100	10	3	1375	1438	1595	
8	370379	79.6	10	2	1239	1705	-	
9	611194	88.4	10	3	1374	1579	1623	
10	855665	53.3	10	1	1016	-	-	
11	98897	65.3	10	1	1709	-	-	

Bin5 Statistics 19

Trial #	Burst Offset (µS)	Pulse Width (µS	Chirp (MHz)	Pulse	PRI-1 (µS)	PRI-2 (µS)	PRI-3 (µS)	Detection (1:yes; 0:no)
0	292143	55.3	12	1	1920	-	-	1
1	499633	58.3	12	1	1797	-	-	
2	706377	72.3	12	2	1610	1039	-	
3	58989	84.8	12	3	1131	1761	1721	
4	266161	82.5	12	2	1875	1431	-	
5	474469	63.3	12	1	1095	-	-	
6	680544	80	12	2	1119	1913	-	
7	33519	90.3	12	3	1660	1853	1123	
8	240319	91.1	12	3	1539	1783	1172	
9	447400	96.6	12	3	1525	1036	1385	
10	654516	82.7	12	2	1710	1990	-	
11	8083	50.7	12	1	1234	-	-	
12	215435	78.4	12	2	1047	1109	-	
13	421325	99.5	12	3	1299	1965	1869	

Bin5 Statistics 20

Trial #	Burst Offset (µS)	Pulse Width (µS	Chirp (MHz)	Pulse	PRI-1 (µS)	PRI-2 (µS)	PRI-3 (µS)	Detection (1:yes; 0:no)
0	733725	88.6	10	3	1501	1067	1927	1
1	977882	57.4	10	1	1723	-	-	
2	221197	96.6	10	3	1086	1658	1324	
3	462915	69.7	10	2	1751	1945	-	
4	705071	77.9	10	2	1642	1317	-	
5	947923	62	10	1	1866	-	-	
6	191373	88.4	10	3	1997	1077	1366	
7	432561	97.3	10	3	1790	1896	1367	
8	674004	96.2	10	3	1391	1787	1672	
9	915842	95.4	10	3	1020	1892	1414	
10	162176	54.8	10	1	1084	-	-	
11	403553	80.4	10	2	1850	1436	-	
0	733725	88.6	10	3	1501	1067	1927	
1	977882	57.4	10	1	1723	-	-	
2	221197	96.6	10	3	1086	1658	1324	
3	462915	69.7	10	2	1751	1945	-	
4	705071	77.9	10	2	1642	1317	-	
5	947923	62	10	1	1866	-	-	

Bin5 Statistics 21

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	12	73.6	1126		0.632398	1
1	2	12	67.0	1775		1.360180	
2	3	12	63.3	1514	1901	2.563279	
3	3	12	70.8	1906	1535	3.625209	
4	2	12	90.4	1172		4.339281	
5	1	12	80.1			5.358046	
6	2	12	62.2	1298		6.893604	
7	1	12	67.6			7.701828	
8	2	12	81.4	1134		8.971276	
9	3	12	86.5	1318	1836	9.046124	
10	2	12	74.5	1093		10.913133	
11	1	12	52.1			11.267506	

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	8	98.9	1648		1.239730	1
1	2	8	80.0	1978		2.190176	
2	3	8	76.3	1435	1940	3.707320	
3	3	8	73.7	1585	1880	4.332558	
4	3	8	93.9	1343	1045	5.795661	
5	2	8	99.9	1933		7.177011	
6	2	8	68.0	1510		8.434351	
7	3	8	65.5	1894	1899	9.663695	
8	3	8	83.1	1908	1848	11.331100	

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	18	72.1	1824		0.775054	1
1	3	18	61.8	1865	1436	2.965785	
2	2	18	57.8	1859		3.132924	
3	1	18	68.3			5.527382	
4	2	18	61.0	1933		7.144076	
5	2	18	87.5	1030		8.302122	
6	3	18	60.5	1948	1397	9.292629	
7	2	18	62.5	1308		11.535792	

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	15	83.6	1747		0.876773	1
1	2	15	98.1	1901		1.295909	
2	2	15	54.8	1400		2.104462	
3	3	15	84.2	1447	1665	3.515887	
4	3	15	85.3	1070	1474	4.432707	
5	2	15	57.5	1360		5.758447	
6	3	15	73.3	1381	1073	6.538307	
7	1	15	68.7			7.815166	
8	3	15	60.0	1458	1506	8.329673	
9	1	15	59.6			9.910306	
10	1	15	99.8			10.130707	
11	3	15	71.1	1823	1149	11.549232	

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	69.7	1681		0.062865	1
1	1	18	85.2			1.568996	
2	2	18	67.9	1331		2.282821	
3	1	18	54.2			2.958866	
4	2	18	98.7	1494		3.884441	
5	2	18	70.7	1006		4.985150	
6	2	18	75.1	1639		5.989158	
7	3	18	71.9	1828	1697	6.658354	
8	3	18	87.0	1536	1496	6.998437	
9	2	18	71.3	1279		7.922977	
10	1	18	94.9			9.315939	
11	2	18	95.9	1842		9.510272	
12	2	18	94.0	1287		10.439887	
13	2	18	86.0	1063		11.481486	

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	16	93.1	1825		0.349408	1
1	3	16	69.8	1296	1305	0.958040	
2	2	16	78.4	1883		1.842908	
3	2	16	87.8	1294		2.720731	
4	2	16	57.1	1573		3.844558	
5	2	16	83.3	1889		5.097298	
6	1	16	73.0			5.250616	
7	2	16	50.7	1274		6.744067	
8	2	16	95.1	1305		7.035048	
9	2	16	94.8	1626		8.455546	
10	2	16	52.6	1735		8.796358	
11	3	16	62.0	1972	1799	9.476617	
12	3	16	98.4	1349	1047	11.122325	
13	1	16	67.6			11.455977	

Bin5 Statistics 27

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	20	99.9			0.088943	1
1	2	20	78.5	1513		1.444930	
2	1	20	80.1			2.976603	
3	2	20	77.9	1030		3.522136	
4	2	20	60.1	1503		4.703564	
5	2	20	73.6	1722		6.004012	
6	2	20	96.1	1983		6.786004	
7	2	20	59.8	1162		8.461076	
8	3	20	82.4	1504	1511	9.448210	
9	3	20	77.8	1033	1872	10.269119	
10	2	20	57.9	1436		11.229733	

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	19	86.3			0.212383	1
1	3	19	80.7	1976	1350	1.175917	
2	2	19	60.2	1623		1.339509	
3	2	19	66.4	1143		1.992385	
4	2	19	73.4	1780		2.642334	
5	2	19	66.2	1871		3.552099	
6	2	19	58.9	1727		3.994766	
7	1	19	76.9			4.321962	
8	2	19	56.2	1790		5.234479	
9	3	19	95.4	1909	1203	5.966803	
10	2	19	69.3	1231		6.260720	
11	2	19	50.7	1661		6.919707	
12	3	19	69.3	1596	1980	7.298915	
13	1	19	91.2			8.287460	
14	2	19	66.1	1295		8.903588	
15	3	19	60.0	1849	1465	9.389510	
16	3	19	51.0	1322	1288	10.008916	
17	2	19	76.9	1694		10.714325	
18	2	19	80.7	1727		10.889203	
19	2	19	59.4	1706		11.894723	

Bin5 Statistics 29

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	15	92.4	1328	1296	1.262382	1
1	2	15	64.1	1107		1.764808	
2	2	15	51.4	1872		3.629371	
3	2	15	80.2	1211		4.279537	
4	3	15	95.6	1188	1040	5.646390	
5	2	15	99.7	1060		7.544408	
6	2	15	75.2	1606		8.703755	
7	2	15	50.9	1189		10.623054	
8	2	15	68.0	1741		11.523994	

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	12	51.2	1977		0.790780	
1	3	12	82.7	1504	1119	1.681051	
2	1	12	88.4			2.520632	
3	3	12	61.8	1394	1030	3.470635	
4	3	12	67.2	1720	1052	3.889743	
5	2	12	60.4	1202		4.722459	
6	1	12	73.6			6.153779	1
7	2	12	81.6	1523		7.326806	
8	1	12	96.2			7.750369	
9	2	12	54.0	1510		8.925787	
10	2	12	62.7	1451		9.593029	
11	2	12	71.2	1682		10.442860	
12	1	12	63.5			11.666007	

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	5545.0, 5706.0, 5552.0, 5257.0, 5691.0, 5709.0, 5580.0, 5422.0, 5299.0, 5546.0, 5617.0, 5500.0, 5495.0, 5486.0, 5477.0, 5407.0, 5622.0, 5279.0, 5252.0, 5273.0, 5542.0, 5566.0, 5399.0, 5663.0, 5450.0, 5647.0, 5581.0, 5544.0, 5478.0, 5551.0, 5383.0, 5568.0, 5300.0, 5679.0, 5455.0, 5434.0, 5608.0, 5595.0, 5654.0, 5639.0, 5553.0, 5505.0, 5497.0, 5492.0, 5599.0, 5255.0, 5466.0, 5579.0, 5267.0, 5484.0, 5578.0, 5292.0, 5721.0, 5527.0, 5302.0, 5380.0, 5631.0, 5371.0, 5405.0, 5698.0, 5605.0, 5537.0, 5387.0, 5550.0, 5253.0, 5536.0, 5506.0, 5269.0, 5347.0, 5655.0, 5540.0, 5598.0, 5438.0, 5343.0, 5603.0, 5319.0, 5431.0, 5601.0, 5411.0, 5606.0, 5570.0, 5518.0, 5529.0, 5418.0, 5350.0, 5290.0, 5313.0, 5575.0, 5261.0, 5563.0, 5627.0, 5712.0, 5430.0, 5531.0, 5367.0, 5685.0, 5516.0, 5530.0, 5708.0, 5376.0 (number of hits: 9)
2	5510.0	9	1.0	333	1	5472.0, 5705.0, 5463.0, 5609.0, 5398.0, 5567.0, 5287.0, 5591.0, 5271.0, 5296.0, 5580.0, 5608.0, 5308.0, 5333.0, 5656.0, 5633.0, 5268.0, 5672.0, 5323.0, 5295.0, 5342.0, 5453.0, 5443.0, 5558.0, 5480.0, 5458.0, 5381.0, 5350.0, 5447.0, 5706.0, 5621.0, 5290.0, 5671.0, 5557.0, 5555.0, 5501.0, 5313.0, 5581.0, 5338.0, 5265.0, 5639.0, 5503.0, 5489.0, 5456.0, 5714.0, 5511.0, 5627.0, 5434.0, 5278.0, 5689.0, 5340.0, 5459.0, 5561.0, 5655.0, 5510.0, 5405.0, 5457.0, 5251.0, 5288.0, 5649.0, 5582.0, 5543.0, 5602.0, 5708.0, 5376.0, 5683.0, 5704.0, 5650.0, 5712.0, 5304.0, 5494.0, 5698.0, 5325.0, 5279.0, 5636.0, 5349.0, 5330.0, 5473.0, 5522.0, 5305.0, 5380.0, 5512.0, 5525.0, 5498.0, 5345.0, 5615.0, 5412.0, 5319.0, 5552.0, 5721.0, 5306.0, 5470.0, 5474.0, 5478.0, 5565.0, 5274.0, 5378.0, 5280.0, 5384.0, 5261.0 (number of hits: 9)
3	5510.0	9	1.0	333	1	5613.0, 5633.0, 5653.0, 5703.0, 5493.0, 5375.0, 5642.0, 5257.0, 5701.0, 5517.0, 5480.0, 5665.0, 5569.0, 5392.0, 5323.0, 5382.0, 5661.0, 5585.0, 5377.0, 5292.0, 5482.0, 5477.0, 5436.0, 5535.0, 5364.0, 5437.0, 5429.0, 5269.0, 5456.0, 5290.0, 5462.0, 5672.0, 5557.0, 5404.0, 5588.0, 5504.0, 5255.0, 5471.0, 5368.0, 5573.0, 5491.0, 5475.0, 5407.0, 5722.0, 5558.0, 5297.0, 5553.0, 5294.0, 5578.0, 5379.0, 5348.0, 5307.0, 5445.0, 5634.0, 5706.0, 5341.0, 5327.0, 5509.0, 5643.0, 5410.0, 5310.0, 5365.0, 5664.0, 5420.0, 5589.0, 5309.0, 5671.0, 5396.0, 5614.0, 5705.0, 5353.0, 5446.0, 5354.0, 5496.0, 5674.0, 5498.0, 5609.0, 5300.0, 5440.0, 5554.0, 5350.0, 5386.0, 5433.0, 5356.0, 5423.0, 5457.0, 5548.0, 5264.0, 5571.0, 5332.0, 5566.0, 5363.0, 5488.0, 5640.0, 5395.0, 5328.0, 5276.0, 5384.0, 5630.0, 5322.0 (number of hits: 7)
4	5510.0	9	1.0	333	1	5643.0, 5403.0, 5310.0, 5658.0, 5286.0, 5694.0, 5631.0, 5555.0, 5690.0, 5265.0, 5552.0, 5538.0, 5314.0, 5542.0, 5353.0, 5672.0, 5339.0, 5616.0, 5633.0, 5551.0, 5452.0, 5268.0, 5407.0, 5424.0, 5422.0, 5692.0, 5319.0, 5420.0, 5430.0, 5550.0, 5441.0, 5678.0, 5586.0, 5585.0, 5341.0, 5417.0, 5434.0, 5295.0, 5389.0, 5356.0, 5384.0, 5702.0, 5425.0, 5706.0, 5342.0, 5354.0, 5404.0, 5501.0, 5705.0, 5454.0, 5280.0, 5707.0, 5264.0, 5269.0, 5504.0, 5260.0, 5713.0, 5449.0, 5509.0, 5496.0, 5333.0, 5359.0, 5329.0, 5527.0, 5442.0, 5277.0, 5466.0, 5412.0, 5340.0, 5563.0,

						5267.0, 5505.0, 5619.0, 5634.0, 5721.0, 5661.0, 5440.0, 5443.0, 5467.0, 5580.0, 5655.0, 5497.0, 5491.0, 5284.0, 5393.0, 5475.0, 5472.0, 5590.0, 5540.0, 5711.0, 5688.0, 5377.0, 5566.0, 5257.0, 5444.0, 5488.0, 5696.0, 5668.0, 5714.0, 5419.0 (number of hits: 8)
5	5510.0	9	1.0	333	1	5534.0, 5481.0, 5325.0, 5705.0, 5505.0, 5316.0, 5680.0, 5676.0, 5272.0, 5690.0, 5301.0, 5276.0, 5370.0, 5499.0, 5628.0, 5406.0, 5583.0, 5396.0, 5689.0, 5506.0, 5359.0, 5469.0, 5350.0, 5308.0, 5561.0, 5442.0, 5544.0, 5253.0, 5707.0, 5259.0, 5660.0, 5254.0, 5600.0, 5524.0, 5564.0, 5352.0, 5513.0, 5328.0, 5309.0, 5496.0, 5307.0, 5532.0, 5385.0, 5415.0, 5461.0, 5450.0, 5596.0, 5451.0, 5575.0, 5721.0, 5280.0, 5616.0, 5666.0, 5387.0, 5641.0, 5523.0, 5255.0, 5413.0, 5340.0, 5339.0, 5507.0, 5414.0, 5412.0, 5310.0, 5595.0, 5357.0, 5281.0, 5422.0, 5303.0, 5649.0, 5297.0, 5401.0, 5553.0, 5284.0, 5306.0, 5517.0, 5608.0, 5274.0, 5393.0, 5602.0, 5535.0, 5597.0, 5603.0, 5552.0, 5363.0, 5574.0, 5424.0, 5543.0, 5714.0, 5331.0, 5432.0, 5599.0, 5518.0, 5612.0, 5304.0, 5312.0, 5489.0, 5605.0, 5409.0, 5502.0 (number of hits: 11)
6	5510.0	9	1.0	333	1	5661.0, 5279.0, 5253.0, 5686.0, 5454.0, 5483.0, 5535.0, 5709.0, 5462.0, 5288.0, 5444.0, 5275.0, 5649.0, 5432.0, 5298.0, 5417.0, 5479.0, 5269.0, 5544.0, 5496.0, 5662.0, 5619.0, 5251.0, 5672.0, 5710.0, 5503.0, 5606.0, 5381.0, 5405.0, 5439.0, 5494.0, 5476.0, 5304.0, 5406.0, 5545.0, 5543.0, 5559.0, 5408.0, 5387.0, 5362.0, 5399.0, 5591.0, 5696.0, 5708.0, 5344.0, 5357.0, 5277.0, 5335.0, 5577.0, 5666.0, 5585.0, 5425.0, 5687.0, 5520.0, 5322.0, 5477.0, 5568.0, 5650.0, 5421.0, 5531.0, 5418.0, 5633.0, 5374.0, 5371.0, 5697.0, 5429.0, 5679.0, 5440.0, 5621.0, 5407.0, 5409.0, 5523.0, 5572.0, 5623.0, 5448.0, 5361.0, 5296.0, 5695.0, 5463.0, 5299.0, 5689.0, 5521.0, 5262.0, 5549.0, 5495.0, 5461.0, 5419.0, 5552.0, 5346.0, 5512.0, 5469.0, 5254.0, 5631.0, 5599.0, 5613.0, 5602.0, 5691.0, 5603.0, 5271.0, 5314.0 (number of hits: 8)
7	5510.0	9	1.0	333	1	5554.0, 5642.0, 5493.0, 5382.0, 5548.0, 5387.0, 5485.0, 5492.0, 5540.0, 5446.0, 5262.0, 5253.0, 5472.0, 5413.0, 5560.0, 5566.0, 5575.0, 5326.0, 5332.0, 5427.0, 5264.0, 5470.0, 5665.0, 5457.0, 5703.0, 5312.0, 5459.0, 5590.0, 5602.0, 5385.0, 5653.0, 5542.0, 5680.0, 5392.0, 5259.0, 5633.0, 5443.0, 5686.0, 5484.0, 5636.0, 5622.0, 5279.0, 5513.0, 5547.0, 5576.0, 5466.0, 5571.0, 5278.0, 5291.0, 5258.0, 5531.0, 5313.0, 5375.0, 5310.0, 5338.0, 5445.0, 5675.0, 5489.0, 5401.0, 5456.0, 5357.0, 5578.0, 5698.0, 5544.0, 5539.0, 5307.0, 5488.0, 5403.0, 5347.0, 5579.0, 5450.0, 5582.0, 5687.0, 5491.0, 5691.0, 5597.0, 5626.0, 5476.0, 5256.0, 5351.0, 5631.0, 5435.0, 5460.0, 5640.0, 5712.0, 5348.0, 5342.0, 5584.0, 5502.0, 5546.0, 5645.0, 5421.0, 5556.0, 5439.0, 5389.0, 5498.0, 5334.0, 5609.0, 5260.0, 5422.0 (number of hits: 6)
8	5510.0	9	1.0	333	1	5417.0, 5724.0, 5271.0, 5665.0, 5450.0, 5562.0, 5531.0, 5601.0, 5409.0, 5389.0, 5689.0, 5554.0, 5651.0, 5632.0, 5365.0, 5526.0, 5287.0, 5608.0, 5379.0, 5281.0, 5371.0, 5604.0, 5302.0, 5501.0, 5506.0, 5568.0, 5708.0, 5351.0, 5570.0, 5524.0, 5697.0, 5556.0, 5436.0, 5319.0, 5340.0, 5397.0, 5377.0, 5565.0, 5452.0, 5368.0, 5638.0, 5328.0, 5331.0, 5663.0, 5253.0, 5354.0, 5548.0, 5605.0, 5592.0, 5578.0, 5629.0, 5712.0, 5265.0, 5384.0, 5277.0, 5349.0, 5416.0, 5569.0, 5352.0, 5267.0, 5523.0, 5635.0, 5437.0, 5647.0, 5256.0, 5627.0, 5696.0, 5272.0, 5476.0, 5461.0, 5668.0, 5630.0, 5408.0, 5602.0, 5472.0, 5680.0, 5401.0,

						5448.0, 5655.0, 5644.0, 5455.0, 5594.0, 5699.0, 5299.0, 5683.0, 5262.0, 5418.0, 5705.0, 5451.0, 5406.0, 5575.0, 5355.0, 5687.0, 5381.0, 5304.0, 5298.0, 5673.0, 5457.0, 5480.0, 5623.0 (number of hits: 5)
9	5510.0	9	1.0	333	1	5437.0, 5540.0, 5291.0, 5479.0, 5684.0, 5593.0, 5452.0, 5398.0, 5523.0, 5298.0, 5316.0, 5403.0, 5335.0, 5321.0, 5651.0, 5616.0, 5435.0, 5330.0, 5373.0, 5665.0, 5422.0, 5621.0, 5577.0, 5355.0, 5478.0, 5311.0, 5295.0, 5292.0, 5334.0, 5377.0, 5614.0, 5699.0, 5579.0, 5397.0, 5439.0, 5329.0, 5516.0, 5641.0, 5359.0, 5427.0, 5426.0, 5410.0, 5670.0, 5289.0, 5527.0, 5501.0, 5352.0, 5411.0, 5482.0, 5504.0, 5395.0, 5339.0, 5301.0, 5445.0, 5682.0, 5543.0, 5643.0, 5688.0, 5318.0, 5283.0, 5624.0, 5255.0, 5480.0, 5656.0, 5549.0, 5550.0, 5667.0, 5693.0, 5538.0, 5506.0, 5305.0, 5544.0, 5337.0, 5258.0, 5459.0, 5319.0, 5328.0, 5562.0, 5362.0, 5261.0, 5678.0, 5363.0, 5645.0, 5376.0, 5256.0, 5361.0, 5662.0, 5529.0, 5414.0, 5687.0, 5521.0, 5660.0, 5718.0, 5649.0, 5537.0, 5389.0, 5626.0, 5413.0, 5573.0, 5477.0 (number of hits: 7)
10	5510.0	9	1.0	333	1	5675.0, 5490.0, 5581.0, 5465.0, 5410.0, 5472.0, 5254.0, 5280.0, 5709.0, 5407.0, 5395.0, 5452.0, 5679.0, 5671.0, 5645.0, 5270.0, 5516.0, 5331.0, 5627.0, 5435.0, 5722.0, 5335.0, 5469.0, 5643.0, 5717.0, 5690.0, 5605.0, 5707.0, 5267.0, 5326.0, 5388.0, 5711.0, 5279.0, 5632.0, 5654.0, 5644.0, 5481.0, 5537.0, 5467.0, 5604.0, 5548.0, 5629.0, 5470.0, 5256.0, 5420.0, 5598.0, 5579.0, 5426.0, 5657.0, 5509.0, 5298.0, 5299.0, 5461.0, 5543.0, 5541.0, 5706.0, 5334.0, 5528.0, 5349.0, 5603.0, 5601.0, 5446.0, 5488.0, 5613.0, 5636.0, 5294.0, 5637.0, 5336.0, 5399.0, 5310.0, 5305.0, 5367.0, 5498.0, 5670.0, 5369.0, 5457.0, 5430.0, 5674.0, 5292.0, 5258.0, 5578.0, 5589.0, 5390.0, 5553.0, 5550.0, 5663.0, 5693.0, 5281.0, 5346.0, 5350.0, 5519.0, 5301.0, 5318.0, 5408.0, 5282.0, 5268.0, 5616.0, 5272.0, 5257.0, 5588.0 (number of hits: 5)
11	5510.0	9	1.0	333	1	5607.0, 5658.0, 5409.0, 5292.0, 5643.0, 5598.0, 5471.0, 5668.0, 5687.0, 5511.0, 5358.0, 5442.0, 5676.0, 5426.0, 5430.0, 5476.0, 5410.0, 5538.0, 5494.0, 5506.0, 5367.0, 5510.0, 5294.0, 5265.0, 5552.0, 5338.0, 5428.0, 5655.0, 5720.0, 5532.0, 5330.0, 5671.0, 5623.0, 5594.0, 5445.0, 5610.0, 5597.0, 5661.0, 5429.0, 5709.0, 5580.0, 5271.0, 5277.0, 5457.0, 5615.0, 5595.0, 5268.0, 5480.0, 5357.0, 5470.0, 5363.0, 5626.0, 5657.0, 5451.0, 5508.0, 5373.0, 5324.0, 5558.0, 5659.0, 5575.0, 5256.0, 5381.0, 5721.0, 5448.0, 5353.0, 5370.0, 5640.0, 5337.0, 5301.0, 5459.0, 5405.0, 5398.0, 5396.0, 5526.0, 5419.0, 5603.0, 5651.0, 5477.0, 5253.0, 5718.0, 5473.0, 5523.0, 5452.0, 5366.0, 5685.0, 5627.0, 5289.0, 5435.0, 5288.0, 5711.0, 5469.0, 5272.0, 5425.0, 5556.0, 5516.0, 5534.0, 5539.0, 5712.0, 5674.0, 5283.0 (number of hits: 8)
12	5510.0	9	1.0	333	1	5666.0, 5318.0, 5458.0, 5499.0, 5475.0, 5284.0, 5386.0, 5258.0, 5467.0, 5327.0, 5632.0, 5271.0, 5595.0, 5643.0, 5656.0, 5294.0, 5615.0, 5360.0, 5617.0, 5578.0, 5646.0, 5282.0, 5260.0, 5472.0, 5564.0, 5381.0, 5693.0, 5457.0, 5545.0, 5415.0, 5694.0, 5582.0, 5493.0, 5560.0, 5659.0, 5253.0, 5542.0, 5683.0, 5306.0, 5319.0, 5546.0, 5403.0, 5323.0, 5456.0, 5432.0, 5444.0, 5561.0, 5279.0, 5278.0, 5265.0, 5713.0, 5455.0, 5550.0, 5469.0, 5576.0, 5401.0, 5334.0, 5377.0, 5577.0, 5551.0, 5399.0, 5665.0, 5471.0, 5277.0, 5716.0, 5473.0, 5461.0, 5257.0, 5259.0, 5392.0, 5627.0, 5622.0, 5316.0, 5445.0, 5374.0, 5531.0, 5529.0, 5702.0, 5296.0, 5668.0, 5705.0, 5648.0, 5525.0, 5307.0,

						5563.0, 5602.0, 5286.0, 5491.0, 5633.0, 5503.0, 5344.0, 5653.0, 5317.0, 5690.0, 5658.0, 5433.0, 5600.0, 5385.0, 5608.0, 5313.0 (number of hits: 5)
13	5510.0	9	1.0	333	1	5686.0, 5486.0, 5530.0, 5332.0, 5555.0, 5461.0, 5627.0, 5528.0, 5491.0, 5605.0, 5506.0, 5534.0, 5540.0, 5259.0, 5537.0, 5348.0, 5551.0, 5579.0, 5253.0, 5437.0, 5600.0, 5403.0, 5531.0, 5370.0, 5319.0, 5527.0, 5587.0, 5620.0, 5398.0, 5584.0, 5483.0, 5547.0, 5700.0, 5504.0, 5505.0, 5257.0, 5471.0, 5480.0, 5452.0, 5345.0, 5499.0, 5423.0, 5532.0, 5501.0, 5604.0, 5679.0, 5488.0, 5560.0, 5327.0, 5448.0, 5434.0, 5282.0, 5492.0, 5500.0, 5615.0, 5502.0, 5612.0, 5562.0, 5516.0, 5441.0, 5408.0, 5665.0, 5529.0, 5482.0, 5420.0, 5495.0, 5410.0, 5489.0, 5443.0, 5385.0, 5695.0, 5288.0, 5541.0, 5581.0, 5717.0, 5324.0, 5274.0, 5468.0, 5400.0, 5329.0, 5416.0, 5479.0, 5523.0, 5320.0, 5472.0, 5593.0, 5341.0, 5545.0, 5512.0, 5542.0, 5395.0, 5291.0, 5652.0, 5549.0, 5577.0, 5533.0, 5503.0, 5323.0, 5715.0, 5646.0 (number of hits: 16)
14	5510.0	9	1.0	333	1	5578.0, 5698.0, 5440.0, 5462.0, 5397.0, 5612.0, 5380.0, 5395.0, 5528.0, 5581.0, 5251.0, 5371.0, 5319.0, 5443.0, 5723.0, 5498.0, 5497.0, 5402.0, 5410.0, 5562.0, 5567.0, 5573.0, 5275.0, 5416.0, 5451.0, 5608.0, 5637.0, 5359.0, 5517.0, 5382.0, 5503.0, 5267.0, 5673.0, 5664.0, 5431.0, 5295.0, 5710.0, 5464.0, 5589.0, 5525.0, 5693.0, 5369.0, 5472.0, 5301.0, 5476.0, 5425.0, 5253.0, 5328.0, 5621.0, 5372.0, 5421.0, 5674.0, 5411.0, 5457.0, 5353.0, 5408.0, 5530.0, 5662.0, 5488.0, 5548.0, 5296.0, 5269.0, 5620.0, 5614.0, 5675.0, 5689.0, 5260.0, 5561.0, 5692.0, 5429.0, 5504.0, 5344.0, 5250.0, 5590.0, 5523.0, 5418.0, 5325.0, 5468.0, 5592.0, 5683.0, 5656.0, 5314.0, 5703.0, 5477.0, 5501.0, 5502.0, 5366.0, 5484.0, 5538.0, 5406.0, 5362.0, 5312.0, 5387.0, 5363.0, 5345.0, 5367.0, 5557.0, 5439.0, 5309.0, 5292.0 (number of hits: 10)
15	5510.0	9	1.0	333	1	5276.0, 5361.0, 5266.0, 5327.0, 5559.0, 5401.0, 5389.0, 5645.0, 5619.0, 5576.0, 5671.0, 5450.0, 5287.0, 5558.0, 5515.0, 5491.0, 5593.0, 5633.0, 5444.0, 5609.0, 5634.0, 5294.0, 5394.0, 5658.0, 5566.0, 5471.0, 5552.0, 5349.0, 5696.0, 5318.0, 5392.0, 5422.0, 5710.0, 5326.0, 5667.0, 5306.0, 5259.0, 5412.0, 5588.0, 5543.0, 5719.0, 5346.0, 5617.0, 5438.0, 5432.0, 5377.0, 5381.0, 5664.0, 5275.0, 5701.0, 5698.0, 5560.0, 5508.0, 5353.0, 5452.0, 5723.0, 5655.0, 5595.0, 5293.0, 5498.0, 5669.0, 5553.0, 5707.0, 5295.0, 5356.0, 5302.0, 5325.0, 5694.0, 5688.0, 5549.0, 5475.0, 5403.0, 5311.0, 5474.0, 5434.0, 5607.0, 5314.0, 5366.0, 5473.0, 5265.0, 5358.0, 5490.0, 5482.0, 5591.0, 5258.0, 5304.0, 5468.0, 5425.0, 5501.0, 5511.0, 5714.0, 5542.0, 5316.0, 5646.0, 5682.0, 5323.0, 5256.0, 5289.0, 5684.0, 5681.0 (number of hits: 6)
16	5510.0	9	1.0	333	1	5252.0, 5404.0, 5630.0, 5614.0, 5662.0, 5490.0, 5423.0, 5709.0, 5395.0, 5682.0, 5325.0, 5466.0, 5413.0, 5293.0, 5715.0, 5382.0, 5443.0, 5640.0, 5408.0, 5599.0, 5415.0, 5297.0, 5287.0, 5439.0, 5573.0, 5485.0, 5451.0, 5716.0, 5353.0, 5278.0, 5706.0, 5628.0, 5617.0, 5592.0, 5565.0, 5509.0, 5312.0, 5344.0, 5350.0, 5505.0, 5363.0, 5540.0, 5379.0, 5657.0, 5250.0, 5720.0, 5597.0, 5258.0, 5316.0, 5542.0, 5262.0, 5449.0, 5369.0, 5283.0, 5457.0, 5577.0, 5317.0, 5674.0, 5585.0, 5496.0, 5671.0, 5441.0, 5337.0, 5531.0, 5301.0, 5624.0, 5656.0, 5459.0, 5666.0, 5575.0, 5422.0, 5440.0, 5689.0, 5567.0, 5416.0, 5510.0, 5518.0, 5648.0, 5367.0, 5680.0, 5651.0, 5670.0, 5425.0, 5268.0, 5273.0, 5491.0, 5673.0, 5692.0, 5601.0, 5711.0, 5622.0,

						5562.0, 5718.0, 5492.0, 5400.0, 5620.0, 5458.0, 5652.0, 5551.0, 5472.0 (number of hits: 7)
17	5510.0	9	1.0	333	1	5595.0, 5366.0, 5700.0, 5345.0, 5262.0, 5375.0, 5486.0, 5432.0, 5467.0, 5413.0, 5546.0, 5705.0, 5690.0, 5562.0, 5552.0, 5421.0, 5389.0, 5667.0, 5362.0, 5453.0, 5714.0, 5600.0, 5568.0, 5405.0, 5477.0, 5704.0, 5284.0, 5478.0, 5377.0, 5412.0, 5526.0, 5488.0, 5608.0, 5649.0, 5678.0, 5369.0, 5638.0, 5516.0, 5607.0, 5530.0, 5331.0, 5610.0, 5391.0, 5594.0, 5439.0, 5664.0, 5543.0, 5316.0, 5365.0, 5479.0, 5310.0, 5642.0, 5400.0, 5344.0, 5682.0, 5350.0, 5435.0, 5632.0, 5340.0, 5658.0, 5462.0, 5306.0, 5313.0, 5338.0, 5327.0, 5374.0, 5292.0, 5264.0, 5382.0, 5378.0, 5487.0, 5403.0, 5609.0, 5656.0, 5336.0, 5443.0, 5663.0, 5691.0, 5508.0, 5655.0, 5461.0, 5716.0, 5441.0, 5621.0, 5515.0, 5560.0, 5584.0, 5517.0, 5459.0, 5550.0, 5652.0, 5572.0, 5450.0, 5351.0, 5376.0, 5302.0, 5660.0, 5701.0, 5651.0, 5334.0 (number of hits: 5)
18	5510.0	9	1.0	333	1	5516.0, 5471.0, 5314.0, 5320.0, 5614.0, 5269.0, 5324.0, 5665.0, 5377.0, 5308.0, 5592.0, 5622.0, 5349.0, 5657.0, 5356.0, 5646.0, 5370.0, 5630.0, 5395.0, 5684.0, 5343.0, 5554.0, 5692.0, 5297.0, 5283.0, 5485.0, 5439.0, 5402.0, 5481.0, 5276.0, 5408.0, 5302.0, 5703.0, 5641.0, 5367.0, 5306.0, 5364.0, 5560.0, 5429.0, 5448.0, 5649.0, 5341.0, 5389.0, 5536.0, 5643.0, 5270.0, 5319.0, 5673.0, 5342.0, 5619.0, 5584.0, 5613.0, 5604.0, 5616.0, 5716.0, 5398.0, 5374.0, 5682.0, 5522.0, 5437.0, 5577.0, 5566.0, 5681.0, 5636.0, 5600.0, 5411.0, 5344.0, 5409.0, 5296.0, 5724.0, 5351.0, 5412.0, 5254.0, 5626.0, 5327.0, 5315.0, 5615.0, 5403.0, 5652.0, 5595.0, 5544.0, 5634.0, 5358.0, 5537.0, 5642.0, 5432.0, 5347.0, 5434.0, 5680.0, 5421.0, 5539.0, 5548.0, 5483.0, 5549.0, 5335.0, 5596.0, 5629.0, 5515.0, 5294.0, 5287.0 (number of hits: 3)
19	5510.0	9	1.0	333	1	5467.0, 5517.0, 5343.0, 5392.0, 5585.0, 5696.0, 5463.0, 5461.0, 5420.0, 5272.0, 5283.0, 5462.0, 5638.0, 5685.0, 5491.0, 5429.0, 5710.0, 5278.0, 5610.0, 5530.0, 5506.0, 5607.0, 5308.0, 5456.0, 5533.0, 5531.0, 5426.0, 5498.0, 5691.0, 5435.0, 5469.0, 5447.0, 5615.0, 5268.0, 5290.0, 5448.0, 5445.0, 5340.0, 5595.0, 5708.0, 5259.0, 5636.0, 5255.0, 5609.0, 5540.0, 5275.0, 5600.0, 5321.0, 5307.0, 5441.0, 5376.0, 5713.0, 5562.0, 5604.0, 5406.0, 5603.0, 5682.0, 5581.0, 5667.0, 5536.0, 5503.0, 5252.0, 5311.0, 5306.0, 5475.0, 5565.0, 5432.0, 5390.0, 5573.0, 5389.0, 5537.0, 5601.0, 5381.0, 5333.0, 5466.0, 5501.0, 5523.0, 5693.0, 5303.0, 5361.0, 5652.0, 5723.0, 5279.0, 5315.0, 5608.0, 5489.0, 5386.0, 5400.0, 5641.0, 5492.0, 5442.0, 5320.0, 5346.0, 5360.0, 5387.0, 5655.0, 5520.0, 5521.0, 5330.0, 5590.0 (number of hits: 10)
20	5510.0	9	1.0	333	1	5516.0, 5585.0, 5551.0, 5506.0, 5674.0, 5514.0, 5318.0, 5436.0, 5646.0, 5630.0, 5350.0, 5692.0, 5588.0, 5314.0, 5393.0, 5648.0, 5295.0, 5492.0, 5586.0, 5522.0, 5270.0, 5334.0, 5493.0, 5438.0, 5718.0, 5696.0, 5447.0, 5382.0, 5576.0, 5647.0, 5454.0, 5555.0, 5341.0, 5611.0, 5618.0, 5445.0, 5662.0, 5658.0, 5418.0, 5459.0, 5467.0, 5491.0, 5315.0, 5676.0, 5463.0, 5501.0, 5487.0, 5609.0, 5349.0, 5364.0, 5723.0, 5710.0, 5313.0, 5490.0, 5368.0, 5579.0, 5656.0, 5712.0, 5266.0, 5365.0, 5405.0, 5556.0, 5641.0, 5643.0, 5525.0, 5449.0, 5453.0, 5351.0, 5565.0, 5319.0, 5536.0, 5406.0, 5631.0, 5518.0, 5442.0, 5663.0, 5539.0, 5626.0, 5434.0, 5376.0, 5395.0, 5279.0, 5594.0, 5515.0, 5291.0, 5519.0, 5377.0, 5409.0, 5260.0, 5435.0, 5257.0, 5428.0, 5563.0, 5433.0, 5414.0, 5603.0, 5669.0, 5625.0,

						5344.0, 5513.0 (number of hits: 13)
21	5510.0	9	1.0	333	1	5566.0, 5450.0, 5295.0, 5266.0, 5334.0, 5545.0, 5628.0, 5516.0, 5501.0, 5396.0, 5349.0, 5677.0, 5297.0, 5602.0, 5690.0, 5669.0, 5500.0, 5390.0, 5425.0, 5401.0, 5577.0, 5321.0, 5256.0, 5615.0, 5403.0, 5343.0, 5478.0, 5657.0, 5618.0, 5601.0, 5510.0, 5697.0, 5324.0, 5381.0, 5465.0, 5322.0, 5326.0, 5479.0, 5640.0, 5631.0, 5271.0, 5372.0, 5609.0, 5535.0, 5303.0, 5469.0, 5363.0, 5509.0, 5547.0, 5267.0, 5674.0, 5458.0, 5414.0, 5357.0, 5596.0, 5487.0, 5706.0, 5550.0, 5645.0, 5546.0, 5470.0, 5320.0, 5253.0, 5724.0, 5492.0, 5280.0, 5389.0, 5451.0, 5377.0, 5362.0, 5333.0, 5408.0, 5318.0, 5714.0, 5626.0, 5376.0, 5684.0, 5369.0, 5454.0, 5624.0, 5565.0, 5489.0, 5686.0, 5521.0, 5642.0, 5634.0, 5498.0, 5525.0, 5578.0, 5660.0, 5589.0, 5662.0, 5298.0, 5551.0, 5695.0, 5519.0, 5310.0, 5579.0, 5685.0, 5671.0 (number of hits: 10)
22	5510.0	9	1.0	333	1	5503.0, 5438.0, 5590.0, 5434.0, 5293.0, 5627.0, 5253.0, 5670.0, 5723.0, 5289.0, 5257.0, 5299.0, 5681.0, 5364.0, 5344.0, 5721.0, 5300.0, 5535.0, 5459.0, 5255.0, 5532.0, 5351.0, 5695.0, 5562.0, 5710.0, 5702.0, 5685.0, 5522.0, 5259.0, 5713.0, 5261.0, 5317.0, 5599.0, 5442.0, 5388.0, 5269.0, 5687.0, 5604.0, 5701.0, 5275.0, 5495.0, 5476.0, 5666.0, 5313.0, 5332.0, 5467.0, 5499.0, 5714.0, 5568.0, 5483.0, 5633.0, 5583.0, 5279.0, 5507.0, 5301.0, 5643.0, 5307.0, 5383.0, 5618.0, 5444.0, 5551.0, 5698.0, 5291.0, 5391.0, 5706.0, 5403.0, 5559.0, 5663.0, 5320.0, 5311.0, 5418.0, 5347.0, 5556.0, 5419.0, 5369.0, 5365.0, 5587.0, 5399.0, 5381.0, 5309.0, 5555.0, 5716.0, 5327.0, 5598.0, 5328.0, 5525.0, 5630.0, 5470.0, 5263.0, 5298.0, 5543.0, 5362.0, 5417.0, 5684.0, 5571.0, 5271.0, 5563.0, 5605.0, 5339.0, 5394.0 (number of hits: 6)
23	5510.0	9	1.0	333	1	5325.0, 5673.0, 5679.0, 5391.0, 5312.0, 5403.0, 5509.0, 5557.0, 5457.0, 5501.0, 5437.0, 5277.0, 5587.0, 5472.0, 5481.0, 5483.0, 5622.0, 5284.0, 5621.0, 5613.0, 5560.0, 5697.0, 5603.0, 5327.0, 5358.0, 5455.0, 5270.0, 5616.0, 5430.0, 5713.0, 5571.0, 5632.0, 5599.0, 5635.0, 5251.0, 5692.0, 5460.0, 5462.0, 5716.0, 5614.0, 5340.0, 5667.0, 5575.0, 5585.0, 5678.0, 5723.0, 5683.0, 5313.0, 5659.0, 5392.0, 5573.0, 5268.0, 5619.0, 5302.0, 5264.0, 5724.0, 5273.0, 5359.0, 5694.0, 5485.0, 5706.0, 5646.0, 5647.0, 5715.0, 5545.0, 5537.0, 5643.0, 5377.0, 5366.0, 5475.0, 5484.0, 5567.0, 5548.0, 5685.0, 5618.0, 5624.0, 5522.0, 5401.0, 5534.0, 5533.0, 5528.0, 5653.0, 5271.0, 5610.0, 5404.0, 5708.0, 5339.0, 5464.0, 5648.0, 5260.0, 5372.0, 5651.0, 5663.0, 5347.0, 5468.0, 5596.0, 5447.0, 5551.0, 5719.0, 5578.0 (number of hits: 4)
24	5510.0	9	1.0	333	1	5287.0, 5430.0, 5290.0, 5428.0, 5562.0, 5346.0, 5519.0, 5664.0, 5355.0, 5395.0, 5417.0, 5598.0, 5686.0, 5580.0, 5462.0, 5397.0, 5261.0, 5550.0, 5477.0, 5433.0, 5372.0, 5543.0, 5356.0, 5268.0, 5416.0, 5487.0, 5671.0, 5306.0, 5388.0, 5265.0, 5621.0, 5458.0, 5429.0, 5366.0, 5387.0, 5317.0, 5377.0, 5533.0, 5713.0, 5497.0, 5572.0, 5447.0, 5293.0, 5258.0, 5524.0, 5333.0, 5583.0, 5665.0, 5527.0, 5483.0, 5588.0, 5401.0, 5407.0, 5511.0, 5260.0, 5523.0, 5495.0, 5476.0, 5683.0, 5653.0, 5460.0, 5568.0, 5503.0, 5595.0, 5390.0, 5351.0, 5480.0, 5703.0, 5386.0, 5280.0, 5348.0, 5475.0, 5457.0, 5573.0, 5281.0, 5559.0, 5331.0, 5264.0, 5714.0, 5382.0, 5470.0, 5644.0, 5627.0, 5717.0, 5437.0, 5424.0, 5521.0, 5658.0, 5374.0, 5273.0, 5405.0, 5489.0, 5289.0, 5576.0, 5697.0, 5250.0, 5295.0, 5623.0, 5425.0, 5442.0 (number of hits: 9)

25	5510.0	9	1.0	333	1	5468.0, 5302.0, 5425.0, 5658.0, 5560.0, 5507.0, 5478.0, 5637.0, 5428.0, 5268.0, 5623.0, 5350.0, 5539.0, 5679.0, 5360.0, 5579.0, 5535.0, 5602.0, 5516.0, 5353.0, 5632.0, 5321.0, 5309.0, 5661.0, 5601.0, 5440.0, 5264.0, 5622.0, 5421.0, 5306.0, 5669.0, 5685.0, 5431.0, 5643.0, 5690.0, 5491.0, 5703.0, 5330.0, 5365.0, 5401.0, 5371.0, 5337.0, 5450.0, 5613.0, 5476.0, 5720.0, 5600.0, 5619.0, 5447.0, 5469.0, 5592.0, 5682.0, 5714.0, 5363.0, 5588.0, 5409.0, 5571.0, 5615.0, 5558.0, 5582.0, 5280.0, 5320.0, 5307.0, 5364.0, 5698.0, 5397.0, 5663.0, 5709.0, 5336.0, 5396.0, 5501.0, 5702.0, 5718.0, 5379.0, 5434.0, 5288.0, 5711.0, 5284.0, 5437.0, 5446.0, 5545.0, 5466.0, 5294.0, 5597.0, 5257.0, 5694.0, 5567.0, 5647.0, 5504.0, 5410.0, 5490.0, 5561.0, 5277.0, 5473.0, 5586.0, 5543.0, 5559.0, 5435.0, 5518.0, 5459.0 (number of hits: 6)
26	5510.0	9	1.0	333	1	5710.0, 5597.0, 5531.0, 5309.0, 5596.0, 5658.0, 5719.0, 5324.0, 5327.0, 5427.0, 5368.0, 5642.0, 5301.0, 5335.0, 5510.0, 5553.0, 5475.0, 5647.0, 5609.0, 5697.0, 5292.0, 5424.0, 5516.0, 5474.0, 5591.0, 5451.0, 5343.0, 5364.0, 5587.0, 5524.0, 5423.0, 5267.0, 5459.0, 5433.0, 5286.0, 5273.0, 5592.0, 5666.0, 5290.0, 5542.0, 5266.0, 5280.0, 5467.0, 5297.0, 5707.0, 5526.0, 5643.0, 5389.0, 5690.0, 5517.0, 5716.0, 5360.0, 5550.0, 5507.0, 5573.0, 5506.0, 5465.0, 5315.0, 5387.0, 5369.0, 5715.0, 5694.0, 5594.0, 5346.0, 5388.0, 5476.0, 5332.0, 5333.0, 5693.0, 5564.0, 5264.0, 5603.0, 5590.0, 5617.0, 5584.0, 5627.0, 5440.0, 5394.0, 5638.0, 5488.0, 5310.0, 5712.0, 5709.0, 5704.0, 5452.0, 5412.0, 5662.0, 5708.0, 5288.0, 5667.0, 5326.0, 5653.0, 5619.0, 5652.0, 5356.0, 5431.0, 5528.0, 5656.0, 5479.0, 5276.0 (number of hits: 8)
27	5510.0	9	1.0	333	1	5364.0, 5483.0, 5631.0, 5347.0, 5353.0, 5278.0, 5713.0, 5409.0, 5260.0, 5349.0, 5693.0, 5420.0, 5557.0, 5602.0, 5553.0, 5490.0, 5361.0, 5300.0, 5374.0, 5251.0, 5530.0, 5257.0, 5346.0, 5373.0, 5710.0, 5339.0, 5633.0, 5255.0, 5562.0, 5484.0, 5269.0, 5510.0, 5281.0, 5549.0, 5640.0, 5379.0, 5711.0, 5721.0, 5367.0, 5332.0, 5280.0, 5632.0, 5341.0, 5337.0, 5403.0, 5350.0, 5308.0, 5285.0, 5563.0, 5450.0, 5496.0, 5451.0, 5518.0, 5429.0, 5648.0, 5378.0, 5528.0, 5524.0, 5596.0, 5317.0, 5526.0, 5336.0, 5277.0, 5716.0, 5275.0, 5276.0, 5434.0, 5614.0, 5685.0, 5656.0, 5509.0, 5704.0, 5499.0, 5315.0, 5551.0, 5439.0, 5370.0, 5586.0, 5354.0, 5462.0, 5447.0, 5653.0, 5585.0, 5351.0, 5552.0, 5567.0, 5600.0, 5691.0, 5325.0, 5366.0, 5574.0, 5256.0, 5294.0, 5460.0, 5650.0, 5412.0, 5495.0, 5377.0, 5344.0, 5558.0 (number of hits: 9)
28	5510.0	9	1.0	333	1	5405.0, 5475.0, 5647.0, 5617.0, 5458.0, 5656.0, 5295.0, 5327.0, 5718.0, 5660.0, 5652.0, 5273.0, 5692.0, 5322.0, 5361.0, 5671.0, 5537.0, 5678.0, 5507.0, 5292.0, 5406.0, 5299.0, 5663.0, 5301.0, 5328.0, 5448.0, 5417.0, 5452.0, 5697.0, 5482.0, 5526.0, 5662.0, 5639.0, 5595.0, 5365.0, 5323.0, 5562.0, 5388.0, 5274.0, 5347.0, 5307.0, 5650.0, 5723.0, 5353.0, 5510.0, 5552.0, 5542.0, 5427.0, 5612.0, 5707.0, 5480.0, 5384.0, 5570.0, 5408.0, 5459.0, 5589.0, 5350.0, 5561.0, 5392.0, 5581.0, 5399.0, 5614.0, 5512.0, 5693.0, 5638.0, 5413.0, 5564.0, 5511.0, 5326.0, 5719.0, 5436.0, 5272.0, 5608.0, 5715.0, 5684.0, 5556.0, 5716.0, 5309.0, 5352.0, 5722.0, 5443.0, 5577.0, 5493.0, 5451.0, 5268.0, 5430.0, 5356.0, 5534.0, 5567.0, 5670.0, 5497.0, 5364.0, 5394.0, 5411.0, 5582.0, 5597.0, 5641.0, 5257.0, 5470.0, 5665.0 (number of hits: 7)
29	5510.0	9	1.0	333	1	5551.0, 5525.0, 5427.0, 5516.0, 5304.0, 5469.0, 5703.0,

						5514.0, 5424.0, 5381.0, 5472.0, 5621.0, 5286.0, 5269.0, 5460.0, 5676.0, 5387.0, 5696.0, 5482.0, 5686.0, 5566.0, 5706.0, 5533.0, 5362.0, 5657.0, 5443.0, 5431.0, 5334.0, 5254.0, 5615.0, 5430.0, 5654.0, 5538.0, 5317.0, 5374.0, 5659.0, 5456.0, 5604.0, 5535.0, 5529.0, 5380.0, 5663.0, 5298.0, 5649.0, 5630.0, 5321.0, 5685.0, 5281.0, 5709.0, 5618.0, 5626.0, 5496.0, 5479.0, 5572.0, 5263.0, 5407.0, 5554.0, 5444.0, 5365.0, 5508.0, 5418.0, 5280.0, 5396.0, 5693.0, 5476.0, 5523.0, 5368.0, 5664.0, 5293.0, 5342.0, 5468.0, 5570.0, 5478.0, 5300.0, 5401.0, 5678.0, 5707.0, 5692.0, 5386.0, 5291.0, 5716.0, 5518.0, 5435.0, 5710.0, 5384.0, 5261.0, 5623.0, 5498.0, 5546.0, 5364.0, 5395.0, 5367.0, 5509.0, 5303.0, 5328.0, 5690.0, 5485.0, 5412.0, 5521.0, 5712.0 (number of hits: 10)
30	5510.0	9	1.0	333	1	5512.0, 5504.0, 5507.0, 5434.0, 5673.0, 5286.0, 5502.0, 5499.0, 5567.0, 5601.0, 5271.0, 5569.0, 5536.0, 5325.0, 5387.0, 5533.0, 5260.0, 5650.0, 5265.0, 5467.0, 5617.0, 5313.0, 5556.0, 5324.0, 5597.0, 5531.0, 5503.0, 5459.0, 5594.0, 5336.0, 5704.0, 5540.0, 5458.0, 5577.0, 5306.0, 5690.0, 5384.0, 5431.0, 5525.0, 5368.0, 5419.0, 5449.0, 5591.0, 5399.0, 5543.0, 5316.0, 5353.0, 5427.0, 5572.0, 5264.0, 5589.0, 5262.0, 5604.0, 5560.0, 5257.0, 5349.0, 5411.0, 5298.0, 5635.0, 5343.0, 5534.0, 5444.0, 5253.0, 5333.0, 5277.0, 5526.0, 5625.0, 5473.0, 5498.0, 5295.0, 5686.0, 5428.0, 5636.0, 5413.0, 5309.0, 5312.0, 5627.0, 5675.0, 5441.0, 5364.0, 5432.0, 5545.0, 5424.0, 5681.0, 5483.0, 5426.0, 5705.0, 5487.0, 5397.0, 5433.0, 5272.0, 5440.0, 5375.0, 5610.0, 5585.0, 5505.0, 5629.0, 5645.0, 5300.0, 5707.0 (number of hits: 10)

P2P Mode
Cobalt 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	93.3 %	60%	Pass
Type 3	30	80.0 %	60%	Pass
Type 4	30	80.0 %	60%	Pass
Aggregate (Type1 to 4)	120	88.3 %	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 5490-5570 MHz.

Trial #	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	86	1.0	618	1
2	63	1.0	838	1
3	57	1.0	938	1
4	81	1.0	658	1
5	72	1.0	738	1
6	58	1.0	918	1
7	62	1.0	858	1
8	59	1.0	898	1
9	68	1.0	778	1
10	95	1.0	558	1
11	89	1.0	598	1
12	76	1.0	698	1
13	92	1.0	578	1
14	83	1.0	638	1
15	65	1.0	818	1
16	18	1.0	3042	1
17	48	1.0	1112	1
18	19	1.0	2793	1
19	19	1.0	2868	1
20	40	1.0	1325	1
21	30	1.0	1777	1
22	37	1.0	1439	1
23	18	1.0	3006	1
24	19	1.0	2891	1
25	22	1.0	2411	1
26	39	1.0	1376	1
27	18	1.0	2974	1
28	39	1.0	1356	1
29	20	1.0	2676	1
30	83	1.0	643	1
Detection Percentage: 100 % (>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	27	2.1	216	1
2	26	3.4	197	1
3	28	3.3	173	1
4	25	4.6	178	0
5	26	1.7	193	1
6	27	4.4	226	1
7	23	4.3	225	1
8	28	2.0	196	1
9	28	1.2	171	1
10	29	3.6	182	1
11	27	1.7	169	1
12	28	1.0	172	1
13	25	3.0	227	1
14	26	3.5	152	1
15	27	2.1	213	1
16	29	1.2	176	1
17	27	2.3	162	1
18	29	3.7	179	1
19	27	4.9	154	1
20	28	1.0	162	1
21	26	1.3	163	1
22	24	3.8	200	1
23	24	4.2	221	0
24	26	2.7	221	1
25	28	2.7	168	1
26	23	1.9	164	1
27	24	2.1	164	1
28	24	4.4	193	1
29	28	1.0	178	1
30	27	4.2	175	1
Detection Percentage: 93.3 % (>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	6.8	467	1
2	16	8.6	460	1
3	17	9.0	225	1
4	18	7.1	391	1
5	16	10.0	235	1
6	18	8.9	274	1
7	16	8.1	465	0
8	16	7.7	296	1
9	18	7.6	233	0
10	17	7.0	260	1
11	16	8.2	234	1
12	17	9.4	487	1
13	16	9.8	273	1
14	17	9.6	263	1
15	17	8.5	468	0
16	16	10.0	389	1
17	16	6.1	294	1
18	17	7.5	489	1
19	18	7.1	238	1
20	18	6.5	482	0
21	17	6.4	348	1
22	17	9.0	214	1
23	16	7.5	243	1
24	18	8.1	218	1
25	16	6.7	200	1
26	17	6.4	320	1
27	16	6.4	254	1
28	17	7.8	326	1
29	17	9.4	380	0
30	16	9.7	329	0
Detection Percentage: 80.0 % (>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	11.6	338	0
2	13	17.0	480	0
3	12	13.5	261	0
4	15	12.3	441	0
5	13	15.6	399	1
6	15	15.4	267	1
7	12	14.3	420	1
8	15	15.8	460	1
9	13	14.2	255	1
10	13	13.5	250	1
11	12	16.5	307	1
12	13	19.1	355	1
13	12	14.1	442	1
14	15	13.8	297	0
15	16	13.9	409	1
16	13	17.8	246	1
17	15	13.3	397	1
18	13	20.0	286	1
19	14	15.5	360	1
20	15	18.4	386	1
21	13	13.5	305	1
22	12	15.3	280	1
23	14	13.7	239	1
24	16	12.4	355	1
25	15	15.8	206	1
26	16	18.4	353	1
27	16	12.5	303	1
28	15	18.5	445	1
29	15	11.8	390	0
30	13	16.8	486	1
Detection Percentage: 80.0 % (>60%)				

Table-5 Radar Type 5 Statistical Performance

Trial #	Fc (MHz)	Detection (1:yes; 0:no)
1	5530.0	1
2	5530.0	1
3	5530.0	1
4	5530.0	1
5	5530.0	1
6	5530.0	1
7	5530.0	1
8	5530.0	1
9	5530.0	1
10	5530.0	1
11	5498.0	1
12	5500.0	1
13	5497.0	1
14	5496.0	1
15	5499.0	1
16	5497.0	1
17	5500.0	1
18	5496.0	1
19	5497.0	1
20	5496.0	1
21	5566.5	1
22	5562.1	1
23	5563.3	1
24	5560.5	1
25	5565.3	1
26	5563.7	1
27	5563.3	1
28	5563.3	1
29	5563.3	1
30	5562.9	1
Detection Percentage: 100 % (>80%)		

Bin5 Statistics 1

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	14	88.6			0.565012	1
1	1	14	71.5			1.261981	
2	2	14	83.8	1667		1.997829	
3	2	14	79.4	1536		2.653437	
4	3	14	83.4	1393	1243	3.293845	
5	2	14	76.9	1507		4.092976	
6	3	14	94.7	1312	1634	4.324993	
7	3	14	66.7	1895	1698	5.162743	
8	1	14	85.6			6.023077	
9	2	14	99.1	1992		6.762313	
10	3	14	50.8	1978	1230	7.195144	
11	1	14	98.3			8.448078	
12	1	14	52.6			8.607642	
13	2	14	57.3	1359		9.331396	
14	3	14	71.4	1572	1464	10.055154	
15	2	14	78.6	1694		10.651925	
16	2	14	94.5	1381		11.368073	

Bin5 Statistics 2

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	11	62.7	1698		0.518885	1
1	3	11	69.7	1270	1061	1.927845	
2	2	11	88.0	1133		3.041280	
3	2	11	57.9	1418		3.731197	
4	1	11	62.3			4.767067	
5	2	11	55.7	1778		6.463051	
6	2	11	67.6	1632		7.405886	
7	2	11	81.7	1654		8.090815	
8	2	11	62.0	1942		9.258540	
9	2	11	73.2	1836		10.786051	
10	2	11	58.2	1978		11.588507	

Bin5 Statistics 3

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	8	72.4	1326		0.486132	
1	2	8	63.8	1703		1.491681	
2	3	8	99.2	1752	1590	2.161423	
3	2	8	88.9	1237		3.631869	
4	2	8	58.4	1427		4.554769	
5	2	8	67.8	1182		5.492029	
6	2	8	75.8	1509		6.024309	1
7	3	8	69.4	1130	1937	6.683005	
8	2	8	50.8	1849		7.727714	
9	2	8	79.8	1458		8.317004	
10	1	8	53.9			9.507072	
11	2	8	70.4	1908		10.566352	
12	2	8	95.0	1642		11.624136	

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	12	87.8			0.580395	
1	3	12	85.9	1316	1856	1.459614	
2	2	12	99.5	1663		1.822873	
3	1	12	56.8			2.704589	
4	1	12	53.9			3.627716	
5	3	12	58.9	1966	1434	4.758393	
6	1	12	89.8			4.805765	
7	2	12	96.3	1122		5.629734	1
8	2	12	94.2	1914		6.849346	
9	2	12	94.7	1484		7.596418	
10	3	12	52.3	1674	1705	8.132416	
11	2	12	94.8	1123		9.117573	
12	1	12	84.7			9.827278	
13	1	12	67.7			11.095499	
14	2	12	61.8	1839		11.729624	

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	7	97.4	1126	1928	0.005745	1
1	2	7	71.2	1016		2.047019	
2	1	7	90.6			2.824359	
3	2	7	70.6	1401		3.285741	
4	1	7	70.9			5.331879	
5	3	7	81.9	1677	1383	5.896185	
6	1	7	85.5			7.275626	
7	2	7	91.3	1648		8.438758	
8	2	7	78.1	1576		9.500912	
9	3	7	61.8	1561	1377	10.199161	
10	3	7	86.2	1846	1677	11.610123	

Bin5 Statistics 6

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	5	84.5	1281	1717	0.551498	1
1	1	5	73.0			2.018087	
2	3	5	91.8	1761	1936	3.161303	
3	2	5	82.4	1388		5.341963	
4	1	5	76.0			7.285150	
5	1	5	83.1			8.336214	
6	3	5	85.4	1962	1475	9.322457	
7	2	5	70.7	1253		10.791452	

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	50.3			0.297967	1
1	3	6	69.6	1476	1679	1.710888	
2	2	6	97.0	1365		2.611001	
3	2	6	90.0	1367		4.337983	
4	1	6	62.4			5.189836	
5	2	6	81.0	1312		7.013207	
6	2	6	96.1	1088		7.315391	
7	1	6	73.0			9.425406	
8	3	6	61.4	1642	1359	9.757456	
9	3	6	88.1	1836	1850	11.992903	

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	12	95.7	1882		0.516750	1
1	2	12	55.1	1233		0.893297	
2	3	12	54.9	1556	1577	1.274700	
3	2	12	71.6	1428		1.969488	
4	1	12	84.3			2.712231	
5	1	12	80.9			3.471178	
6	2	12	68.4	1272		4.023943	
7	1	12	77.2			4.752894	
8	2	12	82.7	1441		5.389688	
9	2	12	79.6	1765		5.763696	
10	2	12	56.3	1509		6.789301	
11	1	12	88.5			7.168664	
12	2	12	81.5	1028		7.626185	
13	2	12	88.9	1727		8.607664	
14	2	12	96.8	1639		9.140910	
15	1	12	53.8			10.033243	
16	1	12	55.4			10.199204	
17	2	12	91.5	1842		11.296656	
18	1	12	61.7			11.971715	

Bin5 Statistics 9

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	9	91.3			0.353832	1
1	2	9	78.6	1691		2.357347	
2	3	9	90.0	1609	1224	2.465443	
3	1	9	68.3			4.217775	
4	1	9	94.1			4.938051	
5	3	9	82.3	1794	1581	6.926939	
6	2	9	88.8	1156		8.285028	
7	3	9	89.0	1780	1143	9.524459	
8	2	9	64.1	1992		9.751541	
9	2	9	86.1	1007		10.911537	

Bin5 Statistics 10

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	7	90.1	1604	1040	0.440923	1
1	2	7	52.8	1167		1.098898	
2	1	7	85.6			1.515559	
3	3	7	80.8	1462	1460	2.239288	
4	1	7	93.2			3.392361	
5	2	7	79.1	1194		4.202719	
6	2	7	73.1	1870		4.514142	
7	2	7	61.5	1112		5.437119	
8	2	7	61.8	1657		6.141681	
9	2	7	94.2	1592		6.911121	
10	2	7	80.6	1365		7.588505	
11	2	7	94.9	1620		8.137544	
12	2	7	92.5	1373		8.558435	
13	1	7	70.0			9.277224	
14	2	7	60.9	1216		10.162929	
15	2	7	83.9	1412		10.773292	
16	1	7	58.6			11.507709	

Bin5 Statistics 11

Trial #	Burst Offset (µS)	Pulse Width (µS	Chirp (MHz)	Pulse	PRI-1 (µS)	PRI-2 (µS)	PRI-3 (µS)	Detection (1:yes; 0:no)
0	209249	73.7	16	2	1208	1497	-	
1	378386	97.4	16	3	1942	1754	1613	
2	548411	91.7	16	3	1999	1702	1462	
3	17733	66.2	16	1	1393	-	-	
4	187952	70.8	16	2	1968	1821	-	
5	359277	52.3	16	1	1740	-	-	
6	528886	78.9	16	2	1308	1984	-	
7	700166	70.9	16	2	1050	1358	-	
8	167197	75.6	16	2	1437	1430	-	1
9	338262	59.1	16	1	1697	-	-	
10	508324	77	16	2	1397	1304	-	
11	678689	67.9	16	2	1803	1083	-	
12	146031	81.2	16	2	1720	1932	-	
13	316923	78.7	16	2	1247	1121	-	
14	488056	63.3	16	1	1634	-	-	
15	657326	68.9	16	2	1849	1423	-	
16	125509	59.3	16	1	1093	-	-	

Bin5 Statistics 12

Trial #	Burst Offset (µS)	Pulse Width (µS	Chirp (MHz)	Pulse	PRI-1 (µS)	PRI-2 (µS)	PRI-3 (µS)	Detection (1:yes; 0:no)
0	263736	98.9	19	3	1381	1680	1488	
1	416459	82.3	19	2	1716	1855	-	
2	567902	86.7	19	3	1211	1400	1919	
3	92979	89.7	19	3	1861	1068	1282	
4	245155	98.6	19	3	1507	1194	1461	
5	397609	71.1	19	2	1921	1789	-	
6	551431	55.9	19	1	1947	-	-	
7	74413	67.9	19	2	1350	1372	-	
8	226559	84.4	19	3	1203	1107	1443	
9	380056	58.8	19	1	1715	-	-	1
10	533408	65.6	19	1	1017	-	-	
11	55547	78.5	19	2	1911	1704	-	
12	207876	82.3	19	2	1845	1686	-	
13	359771	90.1	19	3	1938	1071	1266	
14	511297	90.2	19	3	1989	1089	1950	
15	36803	83.1	19	2	1943	1406	-	
16	189652	58.8	19	1	1742	-	-	
17	341809	77	19	2	1187	1657	-	
18	495737	55	19	1	1012	-	-	

Bin5 Statistics 13

Trial #	Burst Offset (µS)	Pulse Width (µS	Chirp (MHz)	Pulse	PRI-1 (µS)	PRI-2 (µS)	PRI-3 (µS)	Detection (1:yes; 0:no)
0	22911	58.1	13	1	1929	-	-	1
1	216473	52.1	13	1	1910	-	-	
2	410004	59.9	13	1	1971	-	-	
3	603671	60.2	13	1	1812	-	-	
4	794160	95.9	13	3	1399	1906	1608	
5	192251	79.9	13	2	1626	1859	-	
6	385590	78.5	13	2	1238	1917	-	
7	579862	53.8	13	1	1763	-	-	
8	773423	64.7	13	1	1800	-	-	
9	168898	61.4	13	1	1390	-	-	
10	361606	83.2	13	2	1692	1858	-	
11	553866	84.7	13	3	1533	1677	1638	
12	747241	88.7	13	3	1703	1528	1058	
13	144710	78.3	13	2	1258	1951	-	
14	337856	69.3	13	2	1731	1717	-	

Bin5 Statistics 14

Trial #	Burst Offset (µS)	Pulse Width (µS	Chirp (MHz)	Pulse	PRI-1 (µS)	PRI-2 (µS)	PRI-3 (µS)	Detection (1:yes; 0:no)
0	664275	75.3	10	2	1994	1612	-	1
1	907886	56.3	10	1	1456	-	-	
2	151316	67.7	10	2	1617	1185	-	
3	393746	55.6	10	1	1337	-	-	
4	635093	75.2	10	2	1421	1267	-	
5	876993	76.3	10	2	1359	1305	-	
6	121278	85.7	10	3	1547	1362	1924	
7	362696	98.4	10	3	1873	1550	1249	
8	604342	86.4	10	3	1779	1439	1046	
9	846453	93.6	10	3	1059	1031	1452	
10	91871	63.3	10	1	1328	-	-	
11	333050	92.4	10	3	1412	1673	1322	

Bin5 Statistics 15

Trial #	Burst Offset (µS)	Pulse Width (µS	Chirp (MHz)	Pulse	PRI-1 (µS)	PRI-2 (µS)	PRI-3 (µS)	Detection (1:yes; 0:no)
0	361323	93.3	18	3	1983	1912	1535	
1	515261	69.1	18	2	1102	1794	-	
2	39025	86.9	18	3	1044	1152	1148	
3	190900	84.9	18	3	1894	1948	1118	
4	343941	72.3	18	2	1094	1916	-	
5	497624	51.7	18	1	1447	-	-	
6	20319	58.3	18	1	1429	-	-	
7	172999	60.8	18	1	1979	-	-	
8	325872	57.1	18	1	1641	-	-	
9	475841	88.9	18	3	1886	1964	1489	1
10	1489	72	18	2	1909	1297	-	
11	153647	90.9	18	3	1261	1566	1370	
12	307096	59.8	18	1	1552	-	-	
13	458804	70	18	2	1759	1291	-	
14	610798	67.2	18	2	1625	1881	-	
15	134759	91.2	18	3	1382	1832	1661	
16	288306	56.5	18	1	1483	-	-	
17	441296	51.2	18	1	1237	-	-	
18	592780	74.1	18	2	1471	1245	-	

Bin5 Statistics 16

Trial #	Burst Offset (µS)	Pulse Width (µS	Chirp (MHz)	Pulse	PRI-1 (µS)	PRI-2 (µS)	PRI-3 (µS)	Detection (1:yes; 0:no)
0	158286	76.9	12	2	1110	1140	-	
1	366024	50.2	12	1	1316	-	-	
2	573452	62.9	12	1	1520	-	-	
3	780619	64.7	12	1	1902	-	-	
4	132455	83.8	12	3	1410	1097	1621	
5	340207	65.4	12	1	1944	-	-	
6	548208	53.2	12	1	1024	-	-	
7	755333	51.7	12	1	1603	-	-	1
8	107117	78.7	12	2	1804	1168	-	
9	314500	72.4	12	2	1030	1343	-	
10	522447	53.8	12	1	1327	-	-	
11	728517	73.6	12	2	1524	1553	-	
12	81611	66.7	12	2	1722	1122	-	
13	288948	82.5	12	2	1404	1019	-	

Bin5 Statistics 17

Trial #	Burst Offset (µS)	Pulse Width (µS	Chirp (MHz)	Pulse	PRI-1 (µS)	PRI-2 (µS)	PRI-3 (µS)	Detection (1:yes; 0:no)
0	345766	87.6	20	3	1565	1055	1840	1
1	490019	85.2	20	3	1735	1541	1408	
2	39073	84.8	20	3	1534	1889	1463	
3	183923	77.9	20	2	1749	1460	-	
4	328777	76.5	20	2	1518	1485	-	
5	474728	60.9	20	1	1540	-	-	
6	21394	83	20	2	1080	1010	-	
7	165992	80.4	20	2	1824	1752	-	
8	310973	67.5	20	2	1764	1181	-	
9	456884	62.1	20	1	1495	-	-	
10	3515	86.4	20	3	1773	1966	1263	
11	147928	84.3	20	3	1593	1188	1788	
12	293225	76.9	20	2	1226	1537	-	
13	436922	95.8	20	3	1192	1298	1844	
14	584015	55.2	20	1	1644	-	-	
15	130832	59	20	1	1402	-	-	
16	274684	94.5	20	3	1296	1700	1283	
17	418579	91.9	20	3	1970	1978	1165	
18	563464	85.2	20	3	1732	1551	1189	
19	112787	69.5	20	2	1038	1224	-	

Bin5 Statistics 18

Trial #	Burst Offset (µS)	Pulse Width (µS	Chirp (MHz)	Pulse	PRI-1 (µS)	PRI-2 (µS)	PRI-3 (µS)	Detection (1:yes; 0:no)
0	429224	86.4	10	3	1259	1918	1455	1
1	670241	92.2	10	3	1598	1719	1895	
2	912880	80.4	10	2	1816	1899	-	
3	158603	54.3	10	1	1335	-	-	
4	400824	53.1	10	1	1303	-	-	
5	641915	69.4	10	2	1503	1546	-	
6	883823	69.1	10	2	1279	1639	-	
7	128373	100	10	3	1375	1438	1595	
8	370379	79.6	10	2	1239	1705	-	
9	611194	88.4	10	3	1374	1579	1623	
10	855665	53.3	10	1	1016	-	-	
11	98897	65.3	10	1	1709	-	-	

Bin5 Statistics 19

Trial #	Burst Offset (µS)	Pulse Width (µS	Chirp (MHz)	Pulse	PRI-1 (µS)	PRI-2 (µS)	PRI-3 (µS)	Detection (1:yes; 0:no)
0	292143	55.3	12	1	1920	-	-	1
1	499633	58.3	12	1	1797	-	-	
2	706377	72.3	12	2	1610	1039	-	
3	58989	84.8	12	3	1131	1761	1721	
4	266161	82.5	12	2	1875	1431	-	
5	474469	63.3	12	1	1095	-	-	
6	680544	80	12	2	1119	1913	-	
7	33519	90.3	12	3	1660	1853	1123	
8	240319	91.1	12	3	1539	1783	1172	
9	447400	96.6	12	3	1525	1036	1385	
10	654516	82.7	12	2	1710	1990	-	
11	8083	50.7	12	1	1234	-	-	
12	215435	78.4	12	2	1047	1109	-	
13	421325	99.5	12	3	1299	1965	1869	

Bin5 Statistics 20

Trial #	Burst Offset (µS)	Pulse Width (µS	Chirp (MHz)	Pulse	PRI-1 (µS)	PRI-2 (µS)	PRI-3 (µS)	Detection (1:yes; 0:no)
0	733725	88.6	10	3	1501	1067	1927	1
1	977882	57.4	10	1	1723	-	-	
2	221197	96.6	10	3	1086	1658	1324	
3	462915	69.7	10	2	1751	1945	-	
4	705071	77.9	10	2	1642	1317	-	
5	947923	62	10	1	1866	-	-	
6	191373	88.4	10	3	1997	1077	1366	
7	432561	97.3	10	3	1790	1896	1367	
8	674004	96.2	10	3	1391	1787	1672	
9	915842	95.4	10	3	1020	1892	1414	
10	162176	54.8	10	1	1084	-	-	
11	403553	80.4	10	2	1850	1436	-	

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	5	69.6	1893		0.969117	1
1	2	5	85.4	1213		1.786822	
2	2	5	68.1	1253		2.911195	
3	1	5	97.6			3.457973	
4	1	5	92.9			4.656284	
5	2	5	95.6	1199		5.076168	
6	2	5	60.3	1106		6.347046	
7	2	5	93.2	1245		7.941221	
8	2	5	88.8	1423		8.907131	
9	2	5	99.4	1388		9.638386	
10	3	5	54.4	1167	1270	10.696156	
11	2	5	91.5	1003		11.791304	

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	16	69.4			0.486570	1
1	1	16	55.6			0.989694	
2	2	16	76.1	1996		1.989229	
3	1	16	81.3			2.135746	
4	3	16	87.2	1809	1680	3.275108	
5	1	16	61.4			4.219529	
6	1	16	74.6			4.383413	
7	2	16	52.9	1100		5.120281	
8	2	16	67.8	1283		6.164839	
9	2	16	81.8	1452		6.692134	
10	3	16	54.3	1197	1297	7.627589	
11	3	16	87.6	1116	1632	7.778790	
12	1	16	94.4			9.002518	
13	3	16	51.9	1541	1882	9.493124	
14	2	16	59.6	1176		10.405816	
15	3	16	66.1	1242	1669	10.794954	
16	2	16	54.1	1369		11.455756	

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	13	72.9	1910	1166	0.180170	1
1	1	13	62.2			0.688387	
2	2	13	58.4	1608		1.402760	
3	2	13	59.4	1505		2.216707	
4	3	13	79.2	1440	1627	2.956485	
5	3	13	84.3	1214	1780	3.693374	
6	3	13	81.8	1211	1546	4.612118	
7	2	13	63.5	1669		4.870672	
8	1	13	84.1			5.785797	
9	2	13	96.6	1658		6.523968	
10	2	13	64.5	1475		7.166673	
11	2	13	74.7	1726		7.414822	
12	2	13	81.7	1160		8.326780	
13	3	13	67.3	1967	1206	8.923374	
14	3	13	93.8	1328	1722	9.683605	
15	2	13	61.3	1164		10.334551	
16	1	13	76.0			10.839055	
17	1	13	61.0			11.379486	

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	95.3	1583		0.585168	
1	2	20	88.5	1250		1.245588	
2	1	20	90.5			1.655404	
3	2	20	82.9	1842		2.810498	
4	1	20	57.0			2.945085	
5	2	20	92.4	1395		3.857901	
6	3	20	54.9	1326	1858	4.382501	
7	2	20	90.8	1529		5.218084	
8	3	20	58.5	1787	1923	5.734692	1
9	2	20	67.3	1643		6.747331	
10	2	20	86.1	1081		7.726878	
11	3	20	60.5	1235	1763	8.127245	
12	2	20	75.6	1721		8.605350	
13	2	20	76.7	1856		9.677156	
14	2	20	59.1	1642		9.919353	
15	2	20	77.4	1082		11.021926	
16	2	20	66.9	1638		11.548208	

Bin5 Statistics 25

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	8	70.5	1213		0.724425	
1	2	8	58.3	1711		1.062101	
2	2	8	81.0	1646		2.380774	
3	3	8	65.0	1982	1065	3.114473	
4	1	8	54.0			3.389897	
5	1	8	92.1			4.666207	
6	1	8	87.8			5.467089	
7	1	8	79.1			5.636654	1
8	3	8	74.2	1239	1381	7.046620	
9	2	8	78.2	1673		7.604436	
10	3	8	70.3	1121	1281	8.120905	
11	1	8	82.5			9.022637	
12	2	8	60.5	1175		9.815554	
13	3	8	53.6	1294	1479	10.564288	
14	3	8	70.4	1983	1943	11.465062	

Bin5 Statistics 26

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	12	81.4	1734	1594	0.697629	
1	2	12	66.3	1180		1.416050	
2	2	12	91.6	1484		2.088227	
3	2	12	55.3	1989		3.318473	
4	1	12	97.2			4.261727	
5	2	12	65.1	1757		5.403107	
6	3	12	93.3	1320	1927	6.210633	1
7	3	12	88.1	1407	1724	6.667031	
8	2	12	60.9	1964		7.911158	
9	2	12	62.3	1261		9.088811	
10	2	12	96.4	1728		9.909667	
11	3	12	78.4	1288	1248	10.416938	
12	2	12	97.4	1002		11.799554	

Bin5 Statistics 27

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	13	78.7	1925		0.393918	
1	3	13	92.4	1055	1567	1.274811	
2	2	13	68.6	1205		1.665866	
3	3	13	68.9	1744	1566	2.561579	
4	1	13	69.8			3.236330	
5	3	13	64.0	1276	1114	3.642287	
6	2	13	94.5	1195		4.018048	
7	2	13	56.1	1793		5.016253	
8	3	13	53.0	1794	1423	5.986823	
9	2	13	84.0	1298		6.031348	1
10	2	13	99.1	1413		6.749458	
11	2	13	59.5	1101		7.531531	
12	2	13	91.7	1185		8.556737	
13	2	13	79.7	1164		9.137396	
14	3	13	55.5	1357	1306	9.395786	
15	2	13	82.9	1913		10.465086	
16	1	13	77.6			10.996346	
17	2	13	65.3	1418		11.750467	

Bin5 Statistics 28

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	13	60.6	1215	1884	0.142772	1
1	2	13	94.0	1373		1.713472	
2	1	13	62.7			2.277430	
3	1	13	64.0			3.613674	
4	1	13	84.9			4.583320	
5	1	13	84.1			5.128385	
6	3	13	99.2	1953	1763	6.225327	
7	1	13	69.2			7.508174	
8	2	13	66.6	1858		8.099075	
9	3	13	74.4	1479	1361	9.264229	
10	1	13	83.0			10.172419	
11	3	13	54.9	1303	1152	11.622000	

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	63.5	1726		0.577673	1
1	2	13	60.5	1241		0.673834	
2	2	13	73.2	1163		1.904774	
3	2	13	72.0	1577		2.542071	
4	1	13	54.9			3.308962	
5	1	13	67.4			3.771093	
6	3	13	62.9	1976	1108	4.225173	
7	2	13	61.8	1027		5.210257	
8	1	13	88.2			5.906551	
9	3	13	83.1	1435	1157	6.483981	
10	1	13	76.4			7.070133	
11	3	13	93.0	1805	1143	7.796858	
12	2	13	57.5	1056		8.462519	
13	3	13	83.3	1852	1786	8.706626	
14	2	13	77.8	1192		9.685327	
15	2	13	54.8	1885		10.070499	
16	2	13	65.5	1979		11.290907	
17	1	13	94.0			11.458987	

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	14	76.6	1544		1.172328	1
1	1	14	71.0			1.390157	
2	3	14	67.6	1892	1193	2.846855	
3	2	14	91.1	1532		4.546615	
4	2	14	81.6	1666		4.854250	
5	3	14	70.5	1995	1450	7.175292	
6	1	14	95.1			7.783510	
7	2	14	82.1	1800		8.748572	
8	2	14	71.5	1810		10.425905	
9	2	14	59.6	1718		11.368989	

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	5293.0, 5304.0, 5394.0, 5575.0, 5295.0, 5487.0, 5614.0, 5620.0, 5610.0, 5420.0, 5501.0, 5437.0, 5601.0, 5324.0, 5323.0, 5289.0, 5579.0, 5475.0, 5493.0, 5299.0, 5543.0, 5640.0, 5660.0, 5655.0, 5699.0, 5369.0, 5461.0, 5356.0, 5678.0, 5384.0, 5705.0, 5644.0, 5600.0, 5694.0, 5450.0, 5611.0, 5596.0, 5403.0, 5409.0, 5410.0, 5309.0, 5666.0, 5325.0, 5478.0, 5563.0, 5311.0, 5415.0, 5508.0, 5418.0, 5491.0, 5255.0, 5479.0, 5681.0, 5539.0, 5381.0, 5625.0, 5589.0, 5341.0, 5429.0, 5286.0, 5717.0, 5542.0, 5314.0, 5690.0, 5259.0, 5382.0, 5474.0, 5330.0, 5496.0, 5683.0, 5706.0, 5599.0, 5551.0, 5675.0, 5615.0, 5462.0, 5489.0, 5262.0, 5414.0, 5251.0, 5547.0, 5647.0, 5468.0, 5372.0, 5377.0, 5723.0, 5566.0, 5516.0, 5457.0, 5532.0, 5534.0, 5350.0, 5344.0, 5258.0, 5351.0, 5652.0, 5342.0, 5552.0, 5310.0, 5587.0 (number of hits: 15)
2	5530.0	9	1.0	333	1	5333.0, 5527.0, 5580.0, 5710.0, 5448.0, 5592.0, 5576.0, 5398.0, 5367.0, 5622.0, 5657.0, 5311.0, 5568.0, 5578.0, 5509.0, 5537.0, 5287.0, 5644.0, 5429.0, 5640.0, 5464.0, 5288.0, 5684.0, 5484.0, 5275.0, 5661.0, 5329.0, 5577.0, 5562.0, 5656.0, 5298.0, 5451.0, 5659.0, 5718.0, 5444.0, 5491.0, 5480.0, 5503.0, 5658.0, 5510.0, 5707.0, 5499.0, 5602.0, 5265.0, 5523.0, 5582.0, 5548.0, 5262.0, 5500.0, 5453.0, 5601.0, 5284.0, 5316.0, 5521.0, 5364.0, 5433.0, 5639.0, 5340.0, 5463.0, 5517.0, 5409.0, 5308.0, 5528.0, 5494.0, 5474.0, 5525.0, 5692.0, 5708.0, 5687.0, 5686.0, 5471.0, 5411.0, 5400.0, 5470.0, 5526.0, 5544.0, 5473.0, 5337.0, 5655.0, 5261.0, 5515.0, 5426.0, 5535.0, 5341.0, 5396.0, 5625.0, 5667.0, 5387.0, 5452.0, 5581.0, 5465.0, 5633.0, 5454.0, 5327.0, 5346.0, 5456.0, 5626.0, 5632.0, 5300.0, 5634.0 (number of hits: 19)
3	5530.0	9	1.0	333	1	5631.0, 5420.0, 5386.0, 5336.0, 5344.0, 5567.0, 5417.0, 5457.0, 5720.0, 5357.0, 5339.0, 5338.0, 5673.0, 5485.0, 5608.0, 5544.0, 5558.0, 5699.0, 5293.0, 5517.0, 5600.0, 5260.0, 5665.0, 5313.0, 5390.0, 5307.0, 5426.0, 5406.0, 5719.0, 5698.0, 5599.0, 5414.0, 5466.0, 5574.0, 5368.0, 5633.0, 5483.0, 5435.0, 5329.0, 5501.0, 5508.0, 5576.0, 5349.0, 5664.0, 5283.0, 5456.0, 5294.0, 5458.0, 5299.0, 5257.0, 5317.0, 5689.0, 5434.0, 5552.0, 5452.0, 5379.0, 5444.0, 5724.0, 5335.0, 5617.0, 5619.0, 5597.0, 5482.0, 5534.0, 5520.0, 5510.0, 5593.0, 5644.0, 5398.0, 5428.0, 5252.0, 5292.0, 5476.0, 5400.0, 5278.0, 5588.0, 5499.0, 5714.0, 5676.0, 5556.0, 5385.0, 5697.0, 5345.0, 5383.0, 5643.0, 5554.0, 5377.0, 5312.0, 5529.0, 5453.0, 5361.0, 5255.0, 5584.0, 5389.0, 5537.0, 5625.0, 5650.0, 5514.0, 5274.0, 5415.0 (number of hits: 16)
4	5530.0	9	1.0	333	1	5690.0, 5378.0, 5441.0, 5496.0, 5412.0, 5291.0, 5702.0, 5312.0, 5535.0, 5542.0, 5419.0, 5431.0, 5329.0, 5549.0, 5281.0, 5624.0, 5260.0, 5351.0, 5670.0, 5659.0, 5494.0, 5274.0, 5623.0, 5711.0, 5278.0, 5287.0, 5504.0, 5625.0, 5457.0, 5448.0, 5584.0, 5656.0, 5460.0, 5499.0, 5354.0, 5476.0, 5331.0, 5366.0, 5528.0, 5264.0, 5660.0, 5307.0, 5469.0, 5333.0, 5355.0, 5539.0, 5653.0, 5385.0, 5611.0, 5641.0, 5317.0, 5340.0, 5285.0, 5313.0, 5399.0, 5599.0, 5432.0, 5709.0, 5517.0, 5315.0, 5691.0, 5679.0, 5418.0, 5425.0, 5647.0, 5557.0, 5360.0, 5353.0, 5284.0, 5555.0,

						5663.0, 5283.0, 5470.0, 5269.0, 5644.0, 5306.0, 5568.0, 5680.0, 5445.0, 5649.0, 5336.0, 5588.0, 5263.0, 5720.0, 5561.0, 5544.0, 5610.0, 5605.0, 5255.0, 5547.0, 5433.0, 5721.0, 5391.0, 5674.0, 5362.0, 5537.0, 5515.0, 5597.0, 5558.0, 5648.0 (number of hits: 18)
5	5530.0	9	1.0	333	1	5620.0, 5636.0, 5705.0, 5495.0, 5648.0, 5296.0, 5641.0, 5703.0, 5340.0, 5562.0, 5594.0, 5303.0, 5663.0, 5696.0, 5345.0, 5504.0, 5298.0, 5521.0, 5398.0, 5701.0, 5278.0, 5320.0, 5436.0, 5610.0, 5561.0, 5570.0, 5289.0, 5573.0, 5637.0, 5426.0, 5458.0, 5274.0, 5722.0, 5534.0, 5297.0, 5382.0, 5615.0, 5384.0, 5589.0, 5486.0, 5355.0, 5698.0, 5272.0, 5302.0, 5420.0, 5408.0, 5416.0, 5286.0, 5679.0, 5319.0, 5592.0, 5587.0, 5347.0, 5352.0, 5467.0, 5704.0, 5697.0, 5579.0, 5282.0, 5527.0, 5472.0, 5323.0, 5440.0, 5548.0, 5644.0, 5511.0, 5675.0, 5396.0, 5559.0, 5567.0, 5290.0, 5560.0, 5485.0, 5526.0, 5431.0, 5524.0, 5432.0, 5670.0, 5324.0, 5263.0, 5334.0, 5363.0, 5405.0, 5443.0, 5493.0, 5390.0, 5427.0, 5339.0, 5682.0, 5583.0, 5598.0, 5694.0, 5392.0, 5554.0, 5652.0, 5326.0, 5439.0, 5520.0, 5638.0, 5370.0 (number of hits: 17)
6	5530.0	9	1.0	333	1	5722.0, 5534.0, 5400.0, 5677.0, 5567.0, 5312.0, 5303.0, 5723.0, 5315.0, 5492.0, 5560.0, 5508.0, 5591.0, 5710.0, 5487.0, 5637.0, 5293.0, 5676.0, 5422.0, 5317.0, 5544.0, 5432.0, 5683.0, 5390.0, 5622.0, 5638.0, 5426.0, 5289.0, 5516.0, 5300.0, 5498.0, 5266.0, 5588.0, 5485.0, 5369.0, 5649.0, 5330.0, 5409.0, 5391.0, 5605.0, 5716.0, 5368.0, 5512.0, 5450.0, 5355.0, 5462.0, 5291.0, 5545.0, 5483.0, 5627.0, 5376.0, 5305.0, 5258.0, 5509.0, 5407.0, 5702.0, 5299.0, 5532.0, 5625.0, 5613.0, 5635.0, 5640.0, 5707.0, 5461.0, 5578.0, 5634.0, 5439.0, 5608.0, 5594.0, 5493.0, 5661.0, 5617.0, 5614.0, 5689.0, 5472.0, 5262.0, 5387.0, 5447.0, 5338.0, 5329.0, 5529.0, 5538.0, 5540.0, 5399.0, 5536.0, 5427.0, 5551.0, 5547.0, 5596.0, 5500.0, 5292.0, 5650.0, 5704.0, 5566.0, 5415.0, 5374.0, 5632.0, 5473.0, 5574.0, 5402.0 (number of hits: 21)
7	5530.0	9	1.0	333	1	5623.0, 5420.0, 5617.0, 5704.0, 5489.0, 5333.0, 5262.0, 5668.0, 5603.0, 5633.0, 5666.0, 5488.0, 5651.0, 5657.0, 5659.0, 5331.0, 5413.0, 5471.0, 5636.0, 5271.0, 5451.0, 5497.0, 5671.0, 5614.0, 5416.0, 5640.0, 5648.0, 5689.0, 5441.0, 5673.0, 5637.0, 5510.0, 5408.0, 5544.0, 5688.0, 5484.0, 5587.0, 5374.0, 5479.0, 5505.0, 5663.0, 5401.0, 5265.0, 5494.0, 5372.0, 5414.0, 5499.0, 5462.0, 5613.0, 5409.0, 5635.0, 5719.0, 5287.0, 5268.0, 5676.0, 5524.0, 5433.0, 5383.0, 5470.0, 5678.0, 5652.0, 5503.0, 5556.0, 5312.0, 5397.0, 5569.0, 5422.0, 5304.0, 5531.0, 5274.0, 5472.0, 5341.0, 5293.0, 5412.0, 5446.0, 5407.0, 5447.0, 5266.0, 5309.0, 5699.0, 5276.0, 5491.0, 5261.0, 5702.0, 5317.0, 5371.0, 5514.0, 5270.0, 5279.0, 5632.0, 5392.0, 5346.0, 5638.0, 5376.0, 5610.0, 5512.0, 5436.0, 5517.0, 5305.0, 5568.0 (number of hits: 13)
8	5530.0	9	1.0	333	1	5277.0, 5502.0, 5452.0, 5444.0, 5484.0, 5290.0, 5483.0, 5405.0, 5674.0, 5609.0, 5347.0, 5721.0, 5446.0, 5360.0, 5344.0, 5445.0, 5399.0, 5272.0, 5320.0, 5345.0, 5671.0, 5468.0, 5433.0, 5639.0, 5355.0, 5481.0, 5341.0, 5285.0, 5331.0, 5692.0, 5473.0, 5312.0, 5580.0, 5595.0, 5409.0, 5669.0, 5512.0, 5700.0, 5523.0, 5516.0, 5488.0, 5289.0, 5419.0, 5724.0, 5555.0, 5471.0, 5389.0, 5252.0, 5432.0, 5429.0, 5491.0, 5596.0, 5612.0, 5288.0, 5561.0, 5254.0, 5644.0, 5334.0, 5599.0, 5387.0, 5619.0, 5658.0, 5493.0, 5410.0, 5398.0, 5414.0, 5466.0, 5503.0, 5579.0, 5625.0, 5460.0, 5346.0, 5526.0, 5476.0, 5549.0, 5357.0, 5475.0,

						5684.0, 5605.0, 5271.0, 5270.0, 5632.0, 5472.0, 5723.0, 5469.0, 5690.0, 5519.0, 5343.0, 5715.0, 5392.0, 5621.0, 5588.0, 5712.0, 5711.0, 5694.0, 5358.0, 5610.0, 5251.0, 5428.0, 5281.0 (number of hits: 11)
9	5530.0	9	1.0	333	1	5690.0, 5583.0, 5469.0, 5510.0, 5506.0, 5514.0, 5324.0, 5689.0, 5275.0, 5490.0, 5533.0, 5471.0, 5362.0, 5331.0, 5692.0, 5472.0, 5300.0, 5384.0, 5685.0, 5716.0, 5555.0, 5379.0, 5532.0, 5337.0, 5350.0, 5433.0, 5354.0, 5658.0, 5455.0, 5277.0, 5721.0, 5373.0, 5650.0, 5619.0, 5639.0, 5549.0, 5383.0, 5258.0, 5686.0, 5388.0, 5629.0, 5363.0, 5722.0, 5610.0, 5613.0, 5553.0, 5694.0, 5273.0, 5372.0, 5402.0, 5450.0, 5513.0, 5586.0, 5359.0, 5520.0, 5660.0, 5271.0, 5623.0, 5646.0, 5701.0, 5265.0, 5495.0, 5704.0, 5459.0, 5302.0, 5397.0, 5329.0, 5589.0, 5374.0, 5361.0, 5375.0, 5276.0, 5699.0, 5464.0, 5568.0, 5366.0, 5654.0, 5386.0, 5626.0, 5357.0, 5293.0, 5291.0, 5579.0, 5465.0, 5569.0, 5336.0, 5360.0, 5365.0, 5519.0, 5391.0, 5419.0, 5452.0, 5420.0, 5404.0, 5353.0, 5624.0, 5489.0, 5408.0, 5285.0, 5382.0 (number of hits: 12)
10	5530.0	9	1.0	333	1	5579.0, 5441.0, 5358.0, 5530.0, 5343.0, 5524.0, 5319.0, 5637.0, 5286.0, 5356.0, 5644.0, 5627.0, 5536.0, 5566.0, 5659.0, 5289.0, 5654.0, 5510.0, 5674.0, 5425.0, 5269.0, 5578.0, 5260.0, 5619.0, 5309.0, 5484.0, 5723.0, 5655.0, 5438.0, 5363.0, 5630.0, 5419.0, 5497.0, 5660.0, 5613.0, 5496.0, 5640.0, 5711.0, 5539.0, 5668.0, 5449.0, 5328.0, 5410.0, 5576.0, 5464.0, 5719.0, 5590.0, 5580.0, 5460.0, 5418.0, 5648.0, 5598.0, 5349.0, 5396.0, 5695.0, 5588.0, 5667.0, 5313.0, 5503.0, 5651.0, 5612.0, 5432.0, 5305.0, 5316.0, 5445.0, 5594.0, 5712.0, 5532.0, 5603.0, 5724.0, 5293.0, 5411.0, 5632.0, 5400.0, 5482.0, 5494.0, 5543.0, 5303.0, 5326.0, 5379.0, 5297.0, 5489.0, 5541.0, 5501.0, 5341.0, 5323.0, 5367.0, 5483.0, 5499.0, 5298.0, 5288.0, 5710.0, 5525.0, 5390.0, 5629.0, 5346.0, 5306.0, 5471.0, 5370.0, 5365.0 (number of hits: 16)
11	5530.0	9	1.0	333	1	5580.0, 5371.0, 5696.0, 5688.0, 5689.0, 5434.0, 5297.0, 5361.0, 5615.0, 5612.0, 5288.0, 5604.0, 5387.0, 5565.0, 5690.0, 5592.0, 5640.0, 5698.0, 5460.0, 5309.0, 5352.0, 5438.0, 5527.0, 5719.0, 5501.0, 5704.0, 5710.0, 5358.0, 5321.0, 5642.0, 5378.0, 5328.0, 5513.0, 5268.0, 5445.0, 5349.0, 5610.0, 5257.0, 5368.0, 5515.0, 5399.0, 5433.0, 5431.0, 5462.0, 5323.0, 5491.0, 5570.0, 5662.0, 5440.0, 5485.0, 5450.0, 5326.0, 5632.0, 5617.0, 5456.0, 5468.0, 5681.0, 5595.0, 5271.0, 5625.0, 5554.0, 5303.0, 5574.0, 5396.0, 5702.0, 5265.0, 5614.0, 5603.0, 5502.0, 5496.0, 5354.0, 5700.0, 5652.0, 5663.0, 5558.0, 5556.0, 5320.0, 5547.0, 5596.0, 5711.0, 5536.0, 5562.0, 5541.0, 5255.0, 5340.0, 5672.0, 5416.0, 5578.0, 5301.0, 5418.0, 5706.0, 5537.0, 5524.0, 5533.0, 5564.0, 5365.0, 5673.0, 5489.0, 5363.0, 5685.0 (number of hits: 18)
12	5530.0	9	1.0	333	1	5393.0, 5586.0, 5562.0, 5275.0, 5599.0, 5611.0, 5627.0, 5401.0, 5385.0, 5291.0, 5608.0, 5618.0, 5530.0, 5333.0, 5509.0, 5281.0, 5591.0, 5512.0, 5534.0, 5669.0, 5260.0, 5287.0, 5264.0, 5273.0, 5518.0, 5649.0, 5537.0, 5413.0, 5532.0, 5259.0, 5504.0, 5583.0, 5579.0, 5550.0, 5476.0, 5551.0, 5720.0, 5410.0, 5339.0, 5416.0, 5671.0, 5279.0, 5359.0, 5402.0, 5319.0, 5683.0, 5668.0, 5695.0, 5676.0, 5561.0, 5584.0, 5571.0, 5559.0, 5306.0, 5283.0, 5679.0, 5430.0, 5329.0, 5515.0, 5493.0, 5388.0, 5531.0, 5356.0, 5694.0, 5547.0, 5302.0, 5622.0, 5314.0, 5391.0, 5612.0, 5573.0, 5308.0, 5645.0, 5253.0, 5327.0, 5652.0, 5363.0, 5442.0, 5686.0, 5517.0, 5635.0, 5448.0, 5309.0, 5321.0,

						5322.0, 5386.0, 5317.0, 5628.0, 5685.0, 5705.0, 5299.0, 5428.0, 5312.0, 5588.0, 5620.0, 5672.0, 5568.0, 5450.0, 5372.0, 5462.0 (number of hits: 18)
13	5530.0	9	1.0	333	1	5555.0, 5357.0, 5657.0, 5723.0, 5655.0, 5467.0, 5660.0, 5388.0, 5593.0, 5650.0, 5453.0, 5309.0, 5646.0, 5468.0, 5471.0, 5707.0, 5333.0, 5674.0, 5399.0, 5452.0, 5425.0, 5279.0, 5475.0, 5327.0, 5704.0, 5614.0, 5315.0, 5695.0, 5334.0, 5546.0, 5330.0, 5320.0, 5518.0, 5292.0, 5613.0, 5526.0, 5649.0, 5313.0, 5666.0, 5610.0, 5450.0, 5430.0, 5615.0, 5485.0, 5263.0, 5486.0, 5539.0, 5383.0, 5360.0, 5380.0, 5346.0, 5642.0, 5252.0, 5260.0, 5672.0, 5415.0, 5699.0, 5721.0, 5676.0, 5300.0, 5522.0, 5678.0, 5718.0, 5395.0, 5629.0, 5376.0, 5448.0, 5713.0, 5285.0, 5289.0, 5358.0, 5464.0, 5654.0, 5325.0, 5656.0, 5688.0, 5499.0, 5460.0, 5394.0, 5422.0, 5466.0, 5331.0, 5432.0, 5685.0, 5568.0, 5455.0, 5283.0, 5259.0, 5257.0, 5427.0, 5290.0, 5397.0, 5282.0, 5262.0, 5407.0, 5553.0, 5275.0, 5500.0, 5335.0, 5696.0 (number of hits: 9)
14	5530.0	9	1.0	333	1	5534.0, 5669.0, 5712.0, 5417.0, 5310.0, 5442.0, 5540.0, 5546.0, 5376.0, 5460.0, 5427.0, 5690.0, 5501.0, 5419.0, 5348.0, 5253.0, 5426.0, 5418.0, 5434.0, 5721.0, 5590.0, 5373.0, 5499.0, 5710.0, 5372.0, 5297.0, 5394.0, 5328.0, 5287.0, 5399.0, 5692.0, 5595.0, 5352.0, 5714.0, 5398.0, 5652.0, 5524.0, 5391.0, 5351.0, 5337.0, 5322.0, 5409.0, 5361.0, 5313.0, 5560.0, 5339.0, 5324.0, 5552.0, 5264.0, 5309.0, 5289.0, 5307.0, 5532.0, 5344.0, 5571.0, 5577.0, 5278.0, 5572.0, 5283.0, 5544.0, 5268.0, 5705.0, 5624.0, 5526.0, 5467.0, 5326.0, 5453.0, 5465.0, 5368.0, 5456.0, 5488.0, 5515.0, 5272.0, 5657.0, 5340.0, 5388.0, 5459.0, 5279.0, 5320.0, 5491.0, 5674.0, 5563.0, 5618.0, 5354.0, 5481.0, 5717.0, 5422.0, 5702.0, 5271.0, 5493.0, 5582.0, 5333.0, 5277.0, 5654.0, 5480.0, 5261.0, 5535.0, 5622.0, 5684.0, 5502.0 (number of hits: 16)
15	5530.0	9	1.0	333	1	5526.0, 5259.0, 5493.0, 5368.0, 5515.0, 5443.0, 5346.0, 5694.0, 5579.0, 5310.0, 5632.0, 5578.0, 5410.0, 5587.0, 5361.0, 5613.0, 5322.0, 5689.0, 5357.0, 5512.0, 5666.0, 5469.0, 5522.0, 5387.0, 5301.0, 5260.0, 5676.0, 5401.0, 5530.0, 5305.0, 5308.0, 5686.0, 5560.0, 5506.0, 5279.0, 5637.0, 5415.0, 5327.0, 5582.0, 5626.0, 5426.0, 5434.0, 5564.0, 5428.0, 5646.0, 5455.0, 5303.0, 5252.0, 5609.0, 5427.0, 5451.0, 5366.0, 5421.0, 5513.0, 5351.0, 5396.0, 5541.0, 5359.0, 5442.0, 5382.0, 5490.0, 5304.0, 5287.0, 5422.0, 5655.0, 5606.0, 5419.0, 5704.0, 5634.0, 5568.0, 5703.0, 5690.0, 5710.0, 5466.0, 5547.0, 5381.0, 5339.0, 5452.0, 5480.0, 5482.0, 5275.0, 5441.0, 5607.0, 5650.0, 5711.0, 5353.0, 5619.0, 5539.0, 5300.0, 5695.0, 5589.0, 5615.0, 5458.0, 5544.0, 5683.0, 5439.0, 5467.0, 5417.0, 5342.0, 5343.0 (number of hits: 14)
16	5530.0	9	1.0	333	1	5519.0, 5537.0, 5702.0, 5328.0, 5353.0, 5549.0, 5630.0, 5381.0, 5564.0, 5711.0, 5577.0, 5615.0, 5373.0, 5379.0, 5391.0, 5687.0, 5253.0, 5275.0, 5277.0, 5576.0, 5284.0, 5643.0, 5700.0, 5695.0, 5392.0, 5293.0, 5548.0, 5490.0, 5330.0, 5570.0, 5516.0, 5599.0, 5603.0, 5413.0, 5507.0, 5523.0, 5578.0, 5287.0, 5440.0, 5427.0, 5358.0, 5450.0, 5456.0, 5639.0, 5722.0, 5557.0, 5363.0, 5684.0, 5502.0, 5374.0, 5633.0, 5473.0, 5558.0, 5282.0, 5262.0, 5288.0, 5407.0, 5721.0, 5291.0, 5650.0, 5623.0, 5299.0, 5568.0, 5422.0, 5540.0, 5258.0, 5699.0, 5610.0, 5289.0, 5410.0, 5693.0, 5285.0, 5708.0, 5677.0, 5250.0, 5303.0, 5257.0, 5263.0, 5252.0, 5435.0, 5546.0, 5421.0, 5717.0, 5644.0, 5307.0, 5333.0, 5318.0, 5485.0, 5538.0, 5488.0, 5372.0,

						5444.0, 5302.0, 5354.0, 5443.0, 5640.0, 5494.0, 5425.0, 5526.0, 5679.0 (number of hits: 16)
17	5530.0	9	1.0	333	1	5637.0, 5439.0, 5575.0, 5702.0, 5405.0, 5320.0, 5314.0, 5535.0, 5360.0, 5624.0, 5613.0, 5644.0, 5597.0, 5366.0, 5695.0, 5692.0, 5712.0, 5260.0, 5464.0, 5329.0, 5649.0, 5302.0, 5568.0, 5689.0, 5659.0, 5429.0, 5442.0, 5408.0, 5560.0, 5555.0, 5617.0, 5471.0, 5304.0, 5443.0, 5435.0, 5446.0, 5477.0, 5588.0, 5337.0, 5558.0, 5459.0, 5343.0, 5381.0, 5519.0, 5328.0, 5496.0, 5426.0, 5626.0, 5664.0, 5492.0, 5319.0, 5434.0, 5263.0, 5278.0, 5274.0, 5660.0, 5504.0, 5671.0, 5621.0, 5679.0, 5516.0, 5513.0, 5398.0, 5578.0, 5386.0, 5521.0, 5633.0, 5294.0, 5411.0, 5400.0, 5472.0, 5301.0, 5561.0, 5350.0, 5491.0, 5628.0, 5571.0, 5553.0, 5383.0, 5673.0, 5547.0, 5339.0, 5674.0, 5543.0, 5454.0, 5487.0, 5598.0, 5552.0, 5570.0, 5280.0, 5451.0, 5371.0, 5719.0, 5298.0, 5406.0, 5643.0, 5607.0, 5355.0, 5584.0, 5281.0 (number of hits: 16)
18	5530.0	9	1.0	333	1	5259.0, 5365.0, 5683.0, 5535.0, 5645.0, 5610.0, 5564.0, 5390.0, 5611.0, 5311.0, 5644.0, 5427.0, 5696.0, 5507.0, 5439.0, 5497.0, 5325.0, 5316.0, 5336.0, 5500.0, 5430.0, 5388.0, 5689.0, 5707.0, 5511.0, 5273.0, 5348.0, 5705.0, 5466.0, 5567.0, 5569.0, 5318.0, 5317.0, 5677.0, 5544.0, 5649.0, 5434.0, 5676.0, 5681.0, 5618.0, 5415.0, 5643.0, 5464.0, 5462.0, 5630.0, 5393.0, 5324.0, 5312.0, 5537.0, 5691.0, 5461.0, 5304.0, 5395.0, 5708.0, 5428.0, 5685.0, 5579.0, 5635.0, 5489.0, 5381.0, 5369.0, 5377.0, 5571.0, 5640.0, 5392.0, 5547.0, 5394.0, 5658.0, 5310.0, 5653.0, 5554.0, 5321.0, 5359.0, 5459.0, 5559.0, 5266.0, 5505.0, 5417.0, 5668.0, 5399.0, 5286.0, 5327.0, 5444.0, 5600.0, 5342.0, 5694.0, 5582.0, 5361.0, 5712.0, 5710.0, 5429.0, 5510.0, 5673.0, 5657.0, 5274.0, 5329.0, 5541.0, 5442.0, 5665.0, 5589.0 (number of hits: 15)
19	5530.0	9	1.0	333	1	5608.0, 5685.0, 5604.0, 5459.0, 5387.0, 5628.0, 5648.0, 5467.0, 5689.0, 5300.0, 5378.0, 5405.0, 5397.0, 5448.0, 5510.0, 5476.0, 5325.0, 5302.0, 5369.0, 5655.0, 5470.0, 5424.0, 5478.0, 5318.0, 5363.0, 5413.0, 5534.0, 5381.0, 5335.0, 5680.0, 5498.0, 5458.0, 5717.0, 5304.0, 5587.0, 5482.0, 5285.0, 5440.0, 5598.0, 5593.0, 5259.0, 5653.0, 5255.0, 5703.0, 5584.0, 5616.0, 5407.0, 5431.0, 5290.0, 5585.0, 5341.0, 5396.0, 5517.0, 5553.0, 5688.0, 5388.0, 5643.0, 5346.0, 5266.0, 5630.0, 5497.0, 5268.0, 5686.0, 5646.0, 5558.0, 5348.0, 5572.0, 5563.0, 5372.0, 5649.0, 5433.0, 5282.0, 5461.0, 5468.0, 5457.0, 5260.0, 5456.0, 5543.0, 5466.0, 5371.0, 5499.0, 5257.0, 5375.0, 5342.0, 5606.0, 5532.0, 5377.0, 5483.0, 5613.0, 5491.0, 5500.0, 5610.0, 5562.0, 5569.0, 5701.0, 5690.0, 5475.0, 5501.0, 5487.0, 5281.0 (number of hits: 14)
20	5530.0	9	1.0	333	1	5285.0, 5646.0, 5384.0, 5619.0, 5284.0, 5380.0, 5268.0, 5393.0, 5392.0, 5494.0, 5553.0, 5486.0, 5692.0, 5466.0, 5442.0, 5489.0, 5627.0, 5567.0, 5514.0, 5701.0, 5319.0, 5346.0, 5606.0, 5713.0, 5426.0, 5653.0, 5531.0, 5570.0, 5723.0, 5700.0, 5446.0, 5272.0, 5560.0, 5683.0, 5548.0, 5378.0, 5693.0, 5302.0, 5299.0, 5251.0, 5623.0, 5592.0, 5695.0, 5312.0, 5341.0, 5404.0, 5523.0, 5473.0, 5479.0, 5417.0, 5518.0, 5401.0, 5289.0, 5350.0, 5412.0, 5642.0, 5655.0, 5491.0, 5574.0, 5481.0, 5348.0, 5330.0, 5679.0, 5596.0, 5498.0, 5413.0, 5605.0, 5470.0, 5563.0, 5438.0, 5544.0, 5622.0, 5334.0, 5644.0, 5716.0, 5292.0, 5339.0, 5445.0, 5609.0, 5376.0, 5711.0, 5478.0, 5385.0, 5452.0, 5684.0, 5419.0, 5556.0, 5362.0, 5674.0, 5682.0, 5402.0, 5709.0, 5522.0, 5423.0, 5672.0, 5407.0, 5613.0, 5335.0,

						5524.0, 5304.0 (number of hits: 15)
21	5530.0	9	1.0	333	1	5372.0, 5441.0, 5475.0, 5549.0, 5368.0, 5444.0, 5457.0, 5488.0, 5338.0, 5459.0, 5669.0, 5561.0, 5590.0, 5715.0, 5497.0, 5660.0, 5462.0, 5412.0, 5479.0, 5694.0, 5461.0, 5699.0, 5642.0, 5437.0, 5276.0, 5587.0, 5611.0, 5423.0, 5275.0, 5474.0, 5401.0, 5588.0, 5514.0, 5648.0, 5541.0, 5270.0, 5493.0, 5430.0, 5291.0, 5663.0, 5483.0, 5659.0, 5356.0, 5570.0, 5723.0, 5409.0, 5481.0, 5700.0, 5321.0, 5656.0, 5482.0, 5602.0, 5300.0, 5567.0, 5466.0, 5334.0, 5394.0, 5500.0, 5595.0, 5708.0, 5386.0, 5535.0, 5632.0, 5339.0, 5533.0, 5672.0, 5676.0, 5638.0, 5721.0, 5593.0, 5696.0, 5537.0, 5402.0, 5424.0, 5558.0, 5713.0, 5525.0, 5254.0, 5518.0, 5381.0, 5695.0, 5364.0, 5691.0, 5628.0, 5655.0, 5650.0, 5662.0, 5532.0, 5550.0, 5271.0, 5259.0, 5419.0, 5589.0, 5449.0, 5576.0, 5718.0, 5661.0, 5345.0, 5546.0, 5327.0 (number of hits: 17)
22	5530.0	9	1.0	333	1	5678.0, 5556.0, 5719.0, 5607.0, 5293.0, 5380.0, 5538.0, 5623.0, 5609.0, 5532.0, 5497.0, 5600.0, 5484.0, 5292.0, 5610.0, 5598.0, 5698.0, 5424.0, 5349.0, 5533.0, 5553.0, 5604.0, 5363.0, 5327.0, 5636.0, 5637.0, 5345.0, 5270.0, 5344.0, 5658.0, 5628.0, 5512.0, 5531.0, 5680.0, 5544.0, 5649.0, 5687.0, 5285.0, 5370.0, 5366.0, 5530.0, 5614.0, 5384.0, 5674.0, 5308.0, 5673.0, 5523.0, 5491.0, 5351.0, 5272.0, 5357.0, 5496.0, 5410.0, 5493.0, 5573.0, 5651.0, 5563.0, 5721.0, 5494.0, 5342.0, 5378.0, 5508.0, 5406.0, 5690.0, 5487.0, 5436.0, 5594.0, 5346.0, 5682.0, 5412.0, 5338.0, 5334.0, 5616.0, 5579.0, 5260.0, 5660.0, 5294.0, 5570.0, 5647.0, 5348.0, 5582.0, 5566.0, 5407.0, 5482.0, 5458.0, 5439.0, 5437.0, 5691.0, 5416.0, 5617.0, 5695.0, 5601.0, 5305.0, 5282.0, 5648.0, 5654.0, 5688.0, 5572.0, 5568.0, 5340.0 (number of hits: 17)
23	5530.0	9	1.0	333	1	5302.0, 5534.0, 5586.0, 5721.0, 5304.0, 5465.0, 5619.0, 5454.0, 5493.0, 5662.0, 5688.0, 5683.0, 5637.0, 5335.0, 5469.0, 5254.0, 5444.0, 5672.0, 5653.0, 5438.0, 5470.0, 5651.0, 5464.0, 5571.0, 5359.0, 5703.0, 5474.0, 5268.0, 5288.0, 5353.0, 5330.0, 5436.0, 5509.0, 5690.0, 5385.0, 5617.0, 5473.0, 5251.0, 5552.0, 5266.0, 5679.0, 5606.0, 5342.0, 5314.0, 5658.0, 5416.0, 5294.0, 5319.0, 5707.0, 5488.0, 5406.0, 5696.0, 5551.0, 5709.0, 5640.0, 5682.0, 5457.0, 5676.0, 5413.0, 5722.0, 5298.0, 5629.0, 5621.0, 5693.0, 5466.0, 5582.0, 5710.0, 5340.0, 5270.0, 5667.0, 5538.0, 5578.0, 5715.0, 5408.0, 5296.0, 5522.0, 5455.0, 5412.0, 5596.0, 5309.0, 5448.0, 5320.0, 5472.0, 5671.0, 5530.0, 5553.0, 5284.0, 5372.0, 5562.0, 5487.0, 5659.0, 5565.0, 5681.0, 5633.0, 5262.0, 5322.0, 5608.0, 5450.0, 5282.0, 5395.0 (number of hits: 11)
24	5530.0	9	1.0	333	1	5627.0, 5511.0, 5264.0, 5418.0, 5417.0, 5289.0, 5522.0, 5321.0, 5279.0, 5569.0, 5459.0, 5407.0, 5578.0, 5469.0, 5550.0, 5478.0, 5484.0, 5609.0, 5564.0, 5623.0, 5267.0, 5374.0, 5657.0, 5428.0, 5388.0, 5403.0, 5637.0, 5344.0, 5713.0, 5674.0, 5694.0, 5553.0, 5294.0, 5695.0, 5303.0, 5535.0, 5258.0, 5471.0, 5370.0, 5584.0, 5277.0, 5530.0, 5693.0, 5570.0, 5327.0, 5659.0, 5311.0, 5575.0, 5652.0, 5591.0, 5699.0, 5320.0, 5491.0, 5315.0, 5704.0, 5588.0, 5675.0, 5723.0, 5411.0, 5489.0, 5614.0, 5691.0, 5610.0, 5577.0, 5602.0, 5422.0, 5445.0, 5625.0, 5634.0, 5291.0, 5375.0, 5361.0, 5377.0, 5519.0, 5337.0, 5721.0, 5669.0, 5667.0, 5274.0, 5716.0, 5342.0, 5324.0, 5600.0, 5398.0, 5423.0, 5509.0, 5468.0, 5440.0, 5257.0, 5571.0, 5283.0, 5488.0, 5676.0, 5347.0, 5640.0, 5681.0, 5266.0, 5546.0, 5655.0, 5613.0 (number of hits: 10)

25	5530.0	9	1.0	333	1	5274.0, 5494.0, 5547.0, 5636.0, 5449.0, 5690.0, 5582.0, 5306.0, 5426.0, 5654.0, 5392.0, 5496.0, 5305.0, 5637.0, 5421.0, 5380.0, 5387.0, 5570.0, 5436.0, 5408.0, 5349.0, 5394.0, 5331.0, 5500.0, 5388.0, 5573.0, 5667.0, 5455.0, 5631.0, 5275.0, 5376.0, 5612.0, 5483.0, 5478.0, 5263.0, 5422.0, 5615.0, 5653.0, 5687.0, 5566.0, 5504.0, 5270.0, 5705.0, 5503.0, 5277.0, 5628.0, 5382.0, 5592.0, 5296.0, 5465.0, 5556.0, 5623.0, 5354.0, 5521.0, 5358.0, 5489.0, 5554.0, 5517.0, 5522.0, 5593.0, 5624.0, 5502.0, 5468.0, 5580.0, 5410.0, 5340.0, 5591.0, 5561.0, 5484.0, 5282.0, 5262.0, 5627.0, 5507.0, 5614.0, 5538.0, 5384.0, 5706.0, 5639.0, 5385.0, 5659.0, 5289.0, 5260.0, 5269.0, 5379.0, 5524.0, 5325.0, 5640.0, 5429.0, 5677.0, 5363.0, 5427.0, 5261.0, 5307.0, 5330.0, 5381.0, 5558.0, 5283.0, 5610.0, 5371.0, 5377.0 (number of hits: 18)
26	5530.0	9	1.0	333	1	5381.0, 5689.0, 5720.0, 5697.0, 5494.0, 5619.0, 5663.0, 5319.0, 5622.0, 5492.0, 5527.0, 5360.0, 5511.0, 5477.0, 5457.0, 5615.0, 5499.0, 5530.0, 5253.0, 5608.0, 5383.0, 5471.0, 5496.0, 5490.0, 5388.0, 5290.0, 5454.0, 5614.0, 5469.0, 5611.0, 5551.0, 5682.0, 5656.0, 5565.0, 5515.0, 5339.0, 5437.0, 5569.0, 5438.0, 5531.0, 5400.0, 5410.0, 5294.0, 5644.0, 5719.0, 5293.0, 5479.0, 5512.0, 5698.0, 5350.0, 5465.0, 5436.0, 5409.0, 5304.0, 5599.0, 5250.0, 5723.0, 5593.0, 5321.0, 5273.0, 5583.0, 5598.0, 5279.0, 5264.0, 5674.0, 5567.0, 5452.0, 5252.0, 5617.0, 5447.0, 5449.0, 5367.0, 5382.0, 5281.0, 5399.0, 5307.0, 5442.0, 5521.0, 5424.0, 5548.0, 5665.0, 5603.0, 5560.0, 5624.0, 5713.0, 5681.0, 5347.0, 5376.0, 5315.0, 5295.0, 5371.0, 5557.0, 5379.0, 5430.0, 5544.0, 5613.0, 5667.0, 5341.0, 5378.0, 5620.0 (number of hits: 18)
27	5530.0	9	1.0	333	1	5561.0, 5445.0, 5464.0, 5515.0, 5592.0, 5626.0, 5320.0, 5267.0, 5657.0, 5333.0, 5644.0, 5638.0, 5384.0, 5622.0, 5376.0, 5512.0, 5493.0, 5452.0, 5380.0, 5303.0, 5489.0, 5259.0, 5451.0, 5589.0, 5528.0, 5716.0, 5700.0, 5345.0, 5511.0, 5610.0, 5633.0, 5340.0, 5279.0, 5322.0, 5658.0, 5679.0, 5499.0, 5299.0, 5661.0, 5411.0, 5319.0, 5432.0, 5337.0, 5659.0, 5608.0, 5381.0, 5392.0, 5286.0, 5438.0, 5388.0, 5336.0, 5695.0, 5568.0, 5495.0, 5293.0, 5581.0, 5579.0, 5660.0, 5533.0, 5281.0, 5519.0, 5324.0, 5709.0, 5253.0, 5295.0, 5504.0, 5723.0, 5607.0, 5366.0, 5548.0, 5424.0, 5635.0, 5344.0, 5521.0, 5605.0, 5269.0, 5288.0, 5505.0, 5555.0, 5713.0, 5503.0, 5643.0, 5480.0, 5549.0, 5328.0, 5558.0, 5665.0, 5591.0, 5378.0, 5471.0, 5403.0, 5400.0, 5720.0, 5529.0, 5629.0, 5352.0, 5478.0, 5586.0, 5616.0, 5433.0 (number of hits: 19)
28	5530.0	9	1.0	333	1	5609.0, 5706.0, 5553.0, 5346.0, 5367.0, 5523.0, 5631.0, 5438.0, 5500.0, 5480.0, 5431.0, 5362.0, 5440.0, 5330.0, 5550.0, 5515.0, 5428.0, 5355.0, 5548.0, 5528.0, 5591.0, 5264.0, 5463.0, 5260.0, 5405.0, 5586.0, 5581.0, 5251.0, 5302.0, 5520.0, 5411.0, 5331.0, 5561.0, 5663.0, 5512.0, 5560.0, 5409.0, 5703.0, 5309.0, 5529.0, 5602.0, 5534.0, 5334.0, 5423.0, 5418.0, 5297.0, 5607.0, 5338.0, 5350.0, 5680.0, 5292.0, 5535.0, 5368.0, 5654.0, 5585.0, 5356.0, 5492.0, 5666.0, 5461.0, 5508.0, 5329.0, 5483.0, 5679.0, 5320.0, 5301.0, 5572.0, 5388.0, 5460.0, 5677.0, 5371.0, 5722.0, 5633.0, 5462.0, 5628.0, 5384.0, 5647.0, 5522.0, 5315.0, 5684.0, 5257.0, 5667.0, 5256.0, 5305.0, 5555.0, 5479.0, 5469.0, 5263.0, 5519.0, 5655.0, 5694.0, 5675.0, 5316.0, 5514.0, 5576.0, 5526.0, 5521.0, 5252.0, 5399.0, 5639.0, 5636.0 (number of hits: 22)
29	5530.0	9	1.0	333	1	5558.0, 5533.0, 5473.0, 5294.0, 5364.0, 5641.0, 5295.0,

						5346.0, 5435.0, 5620.0, 5511.0, 5540.0, 5652.0, 5478.0, 5562.0, 5421.0, 5433.0, 5382.0, 5516.0, 5461.0, 5497.0, 5452.0, 5301.0, 5504.0, 5656.0, 5602.0, 5369.0, 5662.0, 5513.0, 5593.0, 5260.0, 5472.0, 5642.0, 5450.0, 5622.0, 5438.0, 5393.0, 5710.0, 5526.0, 5568.0, 5631.0, 5299.0, 5650.0, 5358.0, 5503.0, 5560.0, 5611.0, 5269.0, 5495.0, 5671.0, 5551.0, 5336.0, 5263.0, 5297.0, 5607.0, 5718.0, 5419.0, 5402.0, 5456.0, 5678.0, 5483.0, 5666.0, 5653.0, 5404.0, 5279.0, 5590.0, 5574.0, 5296.0, 5451.0, 5580.0, 5553.0, 5377.0, 5287.0, 5330.0, 5443.0, 5288.0, 5677.0, 5277.0, 5638.0, 5273.0, 5383.0, 5370.0, 5398.0, 5437.0, 5546.0, 5409.0, 5684.0, 5535.0, 5639.0, 5266.0, 5549.0, 5609.0, 5426.0, 5576.0, 5521.0, 5291.0, 5441.0, 5682.0, 5547.0, 5261.0 (number of hits: 20)
30	5530.0	9	1.0	333	1	5624.0, 5636.0, 5495.0, 5293.0, 5389.0, 5517.0, 5502.0, 5595.0, 5346.0, 5511.0, 5388.0, 5669.0, 5545.0, 5432.0, 5568.0, 5584.0, 5443.0, 5491.0, 5424.0, 5484.0, 5412.0, 5566.0, 5554.0, 5649.0, 5403.0, 5332.0, 5307.0, 5650.0, 5306.0, 5362.0, 5349.0, 5500.0, 5420.0, 5658.0, 5308.0, 5541.0, 5551.0, 5336.0, 5550.0, 5686.0, 5653.0, 5518.0, 5435.0, 5507.0, 5660.0, 5455.0, 5638.0, 5543.0, 5675.0, 5724.0, 5309.0, 5496.0, 5591.0, 5604.0, 5373.0, 5689.0, 5493.0, 5607.0, 5556.0, 5422.0, 5701.0, 5547.0, 5625.0, 5570.0, 5342.0, 5386.0, 5508.0, 5710.0, 5557.0, 5273.0, 5480.0, 5413.0, 5473.0, 5444.0, 5426.0, 5538.0, 5252.0, 5331.0, 5657.0, 5581.0, 5721.0, 5391.0, 5449.0, 5505.0, 5410.0, 5429.0, 5466.0, 5347.0, 5695.0, 5401.0, 5704.0, 5608.0, 5326.0, 5575.0, 5404.0, 5256.0, 5320.0, 5356.0, 5571.0, 5530.0 (number of hits: 23)

P2P Mode
Pine Radio

5500 MHz, 20 MHz Bandwidth

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1A/1B	30	96.7 %	60%	Pass
Type 2	30	80.0 %	60%	Pass
Type 3	30	73.3 %	60%	Pass
Type 4	30	96.7 %	60%	Pass
Aggregate (Type1 to 4)	120	86.7 %	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	99	1.0	538	1
2	89	1.0	598	1
3	59	1.0	898	1
4	58	1.0	918	1
5	83	1.0	638	1
6	76	1.0	698	1
7	92	1.0	578	1
8	86	1.0	618	1
9	63	1.0	838	1
10	72	1.0	738	1
11	78	1.0	678	1
12	61	1.0	878	1
13	81	1.0	658	1
14	18	1.0	3066	1
15	102	1.0	518	1
16	50	1.0	1067	1
17	49	1.0	1093	1
18	66	1.0	806	1
19	30	1.0	1760	1
20	41	1.0	1316	1
21	24	1.0	2206	1
22	18	1.0	3046	1
23	46	1.0	1170	1
24	31	1.0	1735	1
25	34	1.0	1580	1
26	20	1.0	2767	1
27	18	1.0	2969	1
28	33	1.0	1608	1
29	19	1.0	2848	1
30	23	1.0	2395	0
Detection Percentage: 96.7 % (>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	27	1.3	224	1
2	27	2.8	216	1
3	26	1.8	162	1
4	28	1.4	223	0
5	29	1.7	161	1
6	23	5.0	162	0
7	24	1.9	228	1
8	23	4.5	200	0
9	26	3.0	171	1
10	26	1.1	182	1
11	25	2.8	175	1
12	23	4.1	192	0
13	28	2.7	228	1
14	29	2.8	170	1
15	29	2.7	187	1
16	28	3.6	218	1
17	29	4.0	165	1
18	28	3.4	208	0
19	24	4.9	154	1
20	28	2.0	219	1
21	28	2.9	173	1
22	27	5.0	216	1
23	27	2.3	228	0
24	25	4.4	186	1
25	24	1.5	150	1
26	24	2.0	153	1
27	27	3.1	161	1
28	26	3.3	198	1
29	29	2.7	207	1
30	25	3.3	159	1
Detection Percentage: 80.0 % (>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	17	7.8	217	0
2	18	6.4	256	1
3	17	6.2	313	0
4	16	9.5	300	1
5	17	6.3	242	1
6	18	7.7	481	1
7	18	9.3	318	1
8	18	9.8	417	1
9	18	10.0	238	1
10	18	8.3	362	1
11	17	9.4	488	0
12	16	6.7	459	1
13	16	6.5	373	1
14	17	8.0	356	0
15	16	6.4	387	1
16	16	9.9	434	1
17	16	6.9	265	1
18	18	7.6	250	1
19	16	7.5	338	1
20	18	7.6	207	1
21	17	8.6	436	0
22	18	6.7	353	0
23	16	8.8	266	1
24	17	6.8	418	0
25	18	9.8	427	1
26	16	9.6	225	1
27	18	8.6	253	1
28	18	9.5	286	1
29	17	9.9	411	1
30	18	8.4	229	0
Detection Percentage: 73.3 % (>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	14	15.8	303	1
2	12	15.2	293	1
3	13	17.9	409	1
4	15	11.3	277	1
5	14	14.8	356	1
6	13	16.3	489	1
7	12	19.2	206	1
8	15	18.6	238	1
9	12	19.4	222	1
10	16	15.9	364	1
11	14	16.1	392	1
12	13	14.3	411	1
13	12	18.2	228	1
14	15	15.9	469	1
15	14	13.6	461	1
16	14	16.6	281	1
17	12	18.0	326	1
18	16	19.9	463	1
19	12	14.3	433	1
20	15	11.8	436	1
21	15	14.7	338	1
22	16	16.0	252	1
23	13	11.9	349	1
24	13	13.4	443	1
25	15	13.4	434	1
26	13	16.0	272	0
27	12	19.4	419	1
28	15	13.3	491	1
29	12	18.8	246	1
30	13	17.5	217	1
Detection Percentage: 96.7 % (>60%)				

Table-5 Radar Type 5 Statistical Performance

Trial #	Fc (MHz)	Detection (1:yes; 0:no)
1	5500.0	1
2	5500.0	1
3	5500.0	1
4	5500.0	1
5	5500.0	1
6	5500.0	1
7	5500.0	1
8	5500.0	1
9	5500.0	1
10	5500.0	1
11	5494.5	1
12	5493.7	1
13	5496.1	1
14	5496.1	1
15	5494.1	1
16	5493.7	1
17	5493.7	1
18	5492.5	1
19	5494.1	1
20	5496.1	1
21	5505.1	1
22	5504.3	1
23	5507.1	1
24	5501.9	1
25	5502.3	1
26	5505.9	1
27	5505.5	1
28	5504.3	1
29	5505.1	1
30	5503.5	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	14	77.5	1689		1.180744	1
1	1	14	55.8			2.508916	
2	1	14	56.2			3.905437	
3	1	14	57.8			4.972891	
4	2	14	71.4	1108		5.584144	
5	3	14	92.8	1044	1440	7.459051	
6	1	14	59.1			8.084978	
7	1	14	74.6			9.815044	
8	3	14	79.2	1607	1469	11.172536	

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	14	54.9	1148		0.586296	1
1	1	14	75.8			2.535634	
2	2	14	79.2	1954		4.117566	
3	1	14	86.1			5.185247	
4	3	14	83.2	1139	1698	6.211864	
5	2	14	92.9	1418		7.563990	
6	1	14	97.1			9.362762	
7	2	14	88.3	1221		11.665778	

Bin5 Statistics 3

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	8	64.9	1043		0.430974	1
1	2	8	64.7	1375		1.335749	
2	2	8	81.1	1211		3.205628	
3	1	8	66.4			3.950017	
4	3	8	85.4	1159	1858	4.513882	
5	1	8	88.8			5.666272	
6	1	8	88.8			7.459669	
7	2	8	69.8	1168		8.059914	
8	3	8	93.7	1967	1654	9.696129	
9	3	8	56.9	1920	1368	10.433051	
10	3	8	85.7	1751	1331	11.915260	

Bin5 Statistics 4

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	7	96.1	1120	1736	0.370346	1
1	1	7	87.6			2.166228	
2	3	7	84.4	1993	1905	2.196564	
3	2	7	69.1	1330		3.411497	
4	1	7	89.3			5.235159	
5	2	7	86.4	1023		6.228629	
6	2	7	52.1	1795		7.134525	
7	3	7	54.3	1642	1427	7.754734	
8	3	7	75.0	1926	1429	9.508091	
9	1	7	64.6			10.347867	
10	1	7	84.1			11.632842	

Bin5 Statistics 5

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	11	89.0	1924		0.263610	1
1	1	11	51.2			1.151967	
2	2	11	91.8	1421		2.719466	
3	1	11	66.5			3.855799	
4	2	11	91.0	1500		4.714328	
5	2	11	82.3	1020		5.075109	
6	2	11	59.1	1033		6.076264	
7	2	11	99.8	1741		7.429646	
8	2	11	59.5	1969		8.307441	
9	2	11	74.1	1495		9.286721	
10	1	11	67.6			10.923916	
11	1	11	60.1			11.473437	

Bin5 Statistics 6

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	7	97.5	1702	1535	0.444861	1
1	2	7	92.7	1708		1.187677	
2	2	7	51.2	1573		1.514525	
3	3	7	78.3	1910	1203	2.043885	
4	1	7	71.1			2.681722	
5	1	7	99.3			3.204426	
6	3	7	53.6	1618	1973	3.638978	
7	2	7	96.8	1400		4.361317	
8	2	7	61.4	1473		4.952561	
9	1	7	63.0			5.551111	
10	2	7	65.4	1226		6.574816	
11	2	7	56.3	1705		7.066301	
12	1	7	55.0			7.552658	
13	2	7	94.8	1334		8.263026	
14	1	7	63.4			8.634349	
15	2	7	88.3	1728		9.259997	
16	2	7	77.2	1298		9.668290	
17	2	7	97.2	1636		10.738686	
18	3	7	83.3	1043	1015	11.102434	
19	2	7	79.9	1381		11.914275	

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	15	70.5	1085		0.500300	
1	3	15	81.5	1590	1907	1.289342	
2	3	15	79.4	1713	1796	1.719968	
3	2	15	81.4	1100		2.135676	
4	2	15	68.2	1729		2.861338	
5	2	15	62.0	1331		3.627617	
6	2	15	91.5	1672		4.637481	
7	1	15	57.3			5.185463	
8	2	15	67.4	1775		6.175316	1
9	2	15	90.7	1944		6.953025	
10	3	15	52.8	1803	1188	7.487945	
11	3	15	64.1	1196	1778	8.284414	
12	2	15	97.2	1015		8.623003	
13	3	15	58.5	1990	1101	9.788769	
14	2	15	63.6	1850		10.443398	
15	2	15	67.0	1600		10.728620	
16	2	15	66.8	1894		11.972423	

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	6	86.9	1273		0.568696	
1	1	6	61.0			1.935647	
2	3	6	88.6	1831	1759	2.722923	
3	2	6	71.2	1449		3.719165	
4	1	6	57.8			4.661736	
5	1	6	75.8			5.961311	
6	2	6	53.6	1257		6.305174	1
7	3	6	81.5	1781	1903	7.660342	
8	1	6	63.3			8.344270	
9	2	6	66.5	1157		9.207598	
10	2	6	62.2	1617		10.628352	
11	3	6	89.0	1769	1110	11.329059	

Bin5 Statistics 9

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	9	50.7	1121		0.057635	
1	2	9	94.2	1138		1.164664	
2	2	9	73.0	1636		2.224898	
3	1	9	68.9			2.714615	
4	1	9	72.0			3.370923	
5	2	9	92.4	1661		4.238737	
6	2	9	69.0	1095		4.868771	
7	3	9	77.4	1995	1949	6.124397	1
8	1	9	98.8			6.514193	
9	3	9	79.8	1965	1616	7.340000	
10	2	9	84.1	1036		8.783234	
11	3	9	74.2	1158	1322	9.048956	
12	2	9	99.0	1177		9.824961	
13	2	9	54.8	1291		11.079557	
14	2	9	94.3	1884		11.489850	

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	15	58.7			0.714201	
1	3	15	54.5	1840	1271	1.360194	
2	2	15	85.3	1216		3.143938	
3	3	15	88.3	1525	1877	3.845354	
4	2	15	76.5	1889		4.753528	
5	1	15	91.1			6.389100	1
6	2	15	85.2	1943		7.083415	
7	1	15	83.3			7.889942	
8	2	15	87.1	1724		9.557270	
9	3	15	72.5	1268	1166	10.025986	
10	2	15	67.4	1569		11.056813	

Bin5 Statistics 11

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	10	94.0	1140		0.145271	
1	3	10	78.0	1823	1188	0.803219	
2	1	10	93.1			1.727243	
3	2	10	52.1	1659		2.188709	
4	2	10	99.7	1023		2.570656	
5	3	10	91.0	1734	1980	3.724801	
6	3	10	56.8	1855	1254	4.052825	
7	2	10	89.5	1499		4.770925	
8	2	10	85.7	1510		5.331151	
9	3	10	69.3	1136	1006	6.069286	1
10	3	10	76.3	1809	1437	6.555091	
11	1	10	75.2			7.272961	
12	3	10	68.3	1253	1092	7.645069	
13	1	10	93.5			8.752767	
14	3	10	70.4	1062	1801	9.147803	
15	3	10	96.4	1119	1052	10.027425	
16	2	10	88.3	1931		10.636289	
17	2	10	71.1	1597		10.969110	
18	2	10	60.4	1230		11.884028	

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	8	86.9			0.290854	
1	3	8	91.6	1987	1607	1.906549	
2	1	8	85.0			3.054232	
3	2	8	60.1	1723		5.579144	
4	2	8	89.7	1064		7.011960	1
5	2	8	56.2	1303		8.530350	
6	2	8	91.0	1107		10.445752	
7	2	8	97.4	1548		11.382497	

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	14	58.3	1734	1392	0.719313	1
1	3	14	80.1	1743	1506	1.192854	
2	2	14	85.5	1861		1.801411	
3	1	14	83.5			2.851756	
4	3	14	50.5	1999	1165	3.526790	
5	1	14	98.6			3.787275	
6	3	14	89.8	1865	1698	5.205237	
7	2	14	83.2	1644		5.514536	
8	2	14	73.5	1943		6.418964	
9	2	14	81.4	1458		7.436265	
10	3	14	81.0	1801	1677	7.873159	
11	1	14	51.8			8.256402	
12	3	14	68.6	1127	1856	9.095018	
13	2	14	75.3	1907		9.908850	
14	2	14	58.5	1667		10.699152	
15	1	14	60.9			11.465245	

Bin5 Statistics 14

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	14	73.6			0.179725	1
1	2	14	61.9	1202		1.539200	
2	2	14	61.6	1778		2.334300	
3	3	14	69.5	1988	1115	3.303590	
4	2	14	68.5	1806		4.326761	
5	2	14	50.1	1007		5.342137	
6	1	14	59.9			5.770701	
7	1	14	54.5			6.691432	
8	2	14	71.5	1617		8.109507	
9	2	14	59.3	1535		8.879412	
10	2	14	84.2	1578		9.492137	
11	2	14	55.2	1113		10.502563	
12	2	14	76.9	1815		11.388855	

Bin5 Statistics 15

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	9	55.4	1332	1360	0.262765	1
1	2	9	75.5	1115		1.544077	
2	2	9	58.9	1654		3.992578	
3	3	9	99.8	1270	1359	4.809541	
4	3	9	68.8	1154	1327	7.212017	
5	2	9	59.8	1117		8.260062	
6	3	9	87.9	1003	1613	9.983698	
7	2	9	62.1	1206		11.235441	

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	8	86.7			0.598426	1
1	1	8	51.5			1.709842	
2	1	8	95.6			2.387110	
3	1	8	53.4			2.778107	
4	2	8	97.7	1061		3.894843	
5	2	8	66.8	1922		5.180718	
6	3	8	86.3	1816	1161	5.771652	
7	2	8	85.9	1737		6.820328	
8	2	8	99.6	1506		7.704964	
9	2	8	95.3	1132		8.633746	
10	2	8	99.0	1972		10.063481	
11	2	8	66.0	1259		10.783130	
12	2	8	97.0	1940		11.238545	

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	71.7	1033		0.570537	
1	2	8	94.6	1202		1.257135	
2	2	8	63.1	1644		2.330668	
3	2	8	87.8	1610		3.667300	
4	1	8	63.4			4.375657	
5	2	8	53.9	1630		4.996086	
6	2	8	96.8	1782		6.101523	1
7	2	8	86.4	1345		7.345787	
8	1	8	91.6			7.956781	
9	2	8	52.1	1433		8.386409	
10	2	8	95.9	1425		9.807567	
11	2	8	74.3	1950		10.701096	
12	1	8	65.3			11.418077	

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	5	53.3	1956		0.473883	
1	2	5	84.6	1328		0.869584	
2	1	5	86.8			1.837583	
3	2	5	91.6	1276		3.392845	
4	2	5	76.4	1429		3.607853	
5	3	5	66.5	1651	1287	4.464398	
6	2	5	89.1	1132		5.720641	
7	2	5	79.7	1629		6.663690	1
8	1	5	67.0			6.913406	
9	1	5	76.9			7.820433	
10	2	5	65.1	1440		8.913672	
11	2	5	60.6	1463		9.857424	
12	3	5	51.7	1778	1143	10.950010	
13	3	5	83.0	1197	1696	11.879773	

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	9	53.3			0.256962	
1	2	9	78.9	1065		1.398915	
2	3	9	67.3	1887	1345	2.601036	
3	1	9	53.9			3.100834	
4	2	9	91.8	1618		3.921040	
5	1	9	80.1			5.504817	
6	2	9	93.3	1443		5.638890	1
7	1	9	69.5			6.704784	
8	3	9	65.5	1006	1795	7.952989	
9	2	9	99.9	1288		8.793480	
10	3	9	73.5	1713	1582	9.359123	
11	3	9	87.1	1092	1609	10.737972	
12	2	9	51.2	1217		11.216076	

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	14	75.0	1932		0.428738	
1	3	14	79.6	1699	1726	1.019522	
2	1	14	56.4			1.475778	
3	1	14	61.9			2.380611	
4	3	14	69.2	1663	1353	3.097968	
5	2	14	69.0	1072		3.945141	
6	1	14	72.0			4.149147	
7	2	14	56.2	1878		4.729142	
8	1	14	67.5			5.732926	
9	2	14	96.9	1173		6.188371	1
10	2	14	79.2	1795		7.157231	
11	1	14	71.1			7.557773	
12	2	14	72.5	1709		8.292725	
13	1	14	94.2			9.251747	
14	3	14	81.2	1855	1290	9.451889	
15	2	14	97.2	1936		10.330439	
16	3	14	77.9	1036	1600	11.284206	
17	2	14	57.9	1788		11.926248	