FCC PART 15.407
DYNAMIC FREQUENCY SELECTION
TEST REPORT

For

Actiontec Electronics Inc.

3301 Olcott St. Santa Clara, CA 95054, USA

FCC ID: LNQT3270S

Report Type: Original Report		**Product Type:** Bonded VDSL Wireless AC Gateway Router
Prepared By	Tri Pham Test Engineer	
Report Number	R1906266-DFS	
Report Date	2019-09-17	
Reviewed By	Frank Wang RF Lead	
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ACCREDITED
CERTIFICATE #3297.02

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	R1906266-DFS	Original Report	2019-09-17

1 General Description

1.1 Product Description for Equipment under Test (EUT)

This test and measurement report was prepared on behalf of *Actiontec Electronics Inc*, and their product model: *T3270S* as referred to as EUT in this report. The product is a Bonded VDSL Wireless AC Gateway Router.

1.2 Mechanical Description of EUT

Length (mm)	Width (mm)	Height (mm)	Weight (g)
180	55	235	450

1.3 Objective

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

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

1.4 Related Submittal(s)/Grant(s)

FCC 15.407 Reports

1.5 Test Methodology

FCC CFR 47 Part2, Part15.407 (h)

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

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

1.6 Test Facility Registrations

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

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

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

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

1.7 Test Facility Accreditations

Bay Area Compliance Laboratories Corp. (BACL) is:

A- ***An independent, 3rd-Party, Commercial Test Laboratory accredited to ISO/IEC 17025:2005 by A2LA (Test Laboratory Accreditation Certificate Number 3279.02)*****,** in the fields of: Electromagnetic Compatibility and Telecommunications. Unless noted by an Asterisk (*) in the Compliance Matrix (See Section 3 of this Test Report), BACL's ISO/IEC 17025:2005 Scope of Accreditation includes all of the Test Method Standards and/or the Product Family Standards detailed in this Test Report..

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

B- ***A Product Certification Body accredited to ISO/IEC 17065:2012 by A2LA (Product Certification Body Accreditation Certificate Number 3279.03)*** to certify

- For the USA (Federal Communications Commission):
    1- All Unlicensed radio frequency devices within FCC Scopes A1, A2, A3, and A4;
    2- All Licensed radio frequency devices within FCC Scopes B1, B2, B3, and B4;
    3- All Telephone Terminal Equipment within FCC Scope C.
- For the Canada (Industry Canada):
    1 All Scope 1-Licence-Exempt Radio Frequency Devices;
    2 All Scope 2-Licensed Personal Mobile Radio Services;
    3 All Scope 3-Licensed General Mobile & Fixed Radio Services;
    4 All Scope 4-Licensed Maritime & Aviation Radio Services;
    5 All Scope 5-Licensed Fixed Microwave Radio Services
    6 All Broadcasting Technical Standards (BETS) in the Category I Equipment Standards List.
- For Singapore (Info-Communications Development Authority (IDA)):
    1 All Line Terminal Equipment: All Technical Specifications for Line Terminal Equipment – Table 1 of IDA MRA Recognition Scheme: 2011, Annex 2
    2. All Radio-Communication Equipment: All Technical Specifications for Radio-Communication Equipment – Table 2 of IDA MRA Recognition Scheme: 2011, Annex 2
- For the Hong Kong Special Administrative Region:

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

- For Japan:

1 MIC Telecommunication Business Law (Terminal Equipment):
- All Scope A1 - Terminal Equipment for the Purpose of Calls;
- All Scope A2 - Other Terminal Equipment

2 Radio Law (Radio Equipment):
- All Scope B1 - Specified Radio Equipment specified in Article 38-2-2, paragraph 1, item 1 of the Radio Law
- All Scope B2 - Specified Radio Equipment specified in Article 38-2-2, paragraph 1, item 2 of the Radio Law
- All Scope B3 - Specified Radio Equipment specified in Article 38-2-2, paragraph 1, item 3 of the Radio Law

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

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

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

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

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

5 Other
- For Water Coolers (ver. 3.0)

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

- Australia: ACMA (Australian Communication and Media Authority) – APEC Tel MRA -Phase I;
- Canada: (Innovation, Science and Economic development Canada - 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), and KDB: 905462 D02 UNII DFS Compliance Procedures New Rules v02

2.2 EUT Exercise Software

The test firmware used was CRT and test commands, provided by *Actiontec Electronics Inc.,* the software is compliant with the standard requirements being tested against.

2.3 Equipment Modifications

N/A

2.4 Local Support Equipment

Manufacturer	Description	Model	Serial Number
Sony	Laptop	Vaio SVE151D11L	54269366 0002588
ASUS	Laptop	FX504G	J6NRCX037440249

2.5 Interface Ports and Cables

Cable Description	Length	To	From
Power cable	2 m	Power Adapter	EUT
Ethernet cable	2 m	EUT	Laptop

3 Summary of Test Results

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

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

4 Applicable Standards

4.1 DFS Requirement

FCC CFR47 §15.407 (h) and KDB: 905462 D02 UNII DFS Compliance Procedures New Rules v02.

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

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

Table 2: Applicability of DFS requirements during normal operation

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

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

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

Maximum Transmit Power	Value (See Notes 1, 2 and 3)
EIRP≥ 200 milliwatt	-64 dBm
EIRP< 200 milliwatt and power spectral density < 10dBm/MHz	-62 dBm
EIRP< 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. **Note 2:** Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. **Note3**: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.	

Table 4: DFS Response Requirement Values

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

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

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

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

Table 5: Short Pulse Radar Test Waveforms

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

Table 6: Long Pulse Radar Test Signal

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

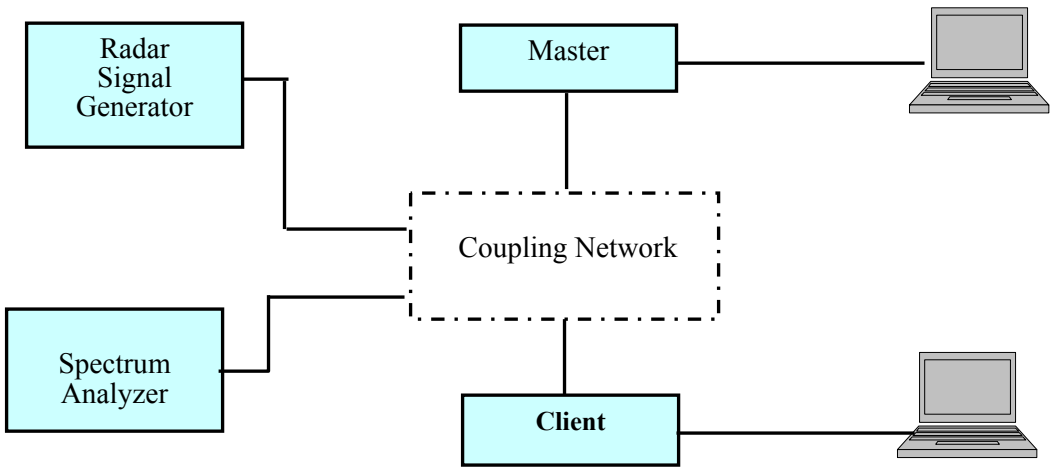
Table 7: Frequency Hopping Radar Test Signal

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

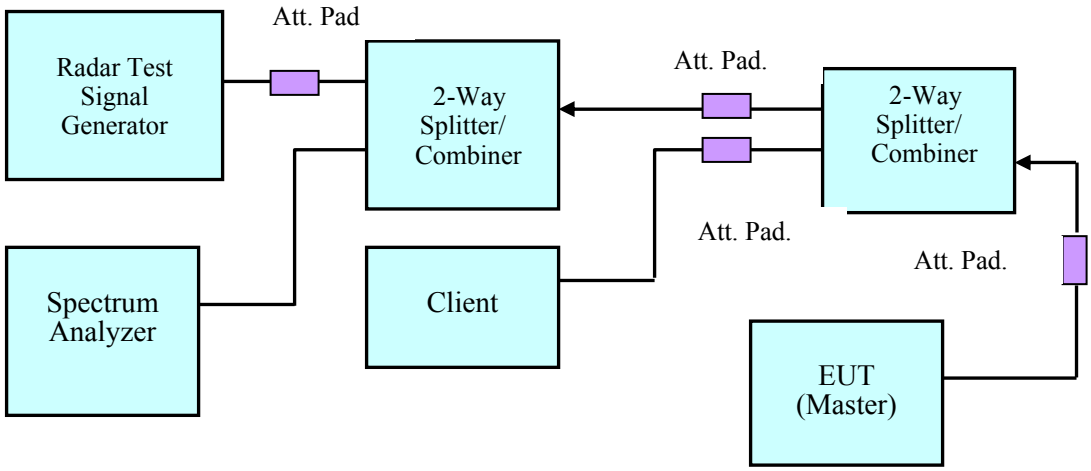
4.2 DFS Measurement System

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

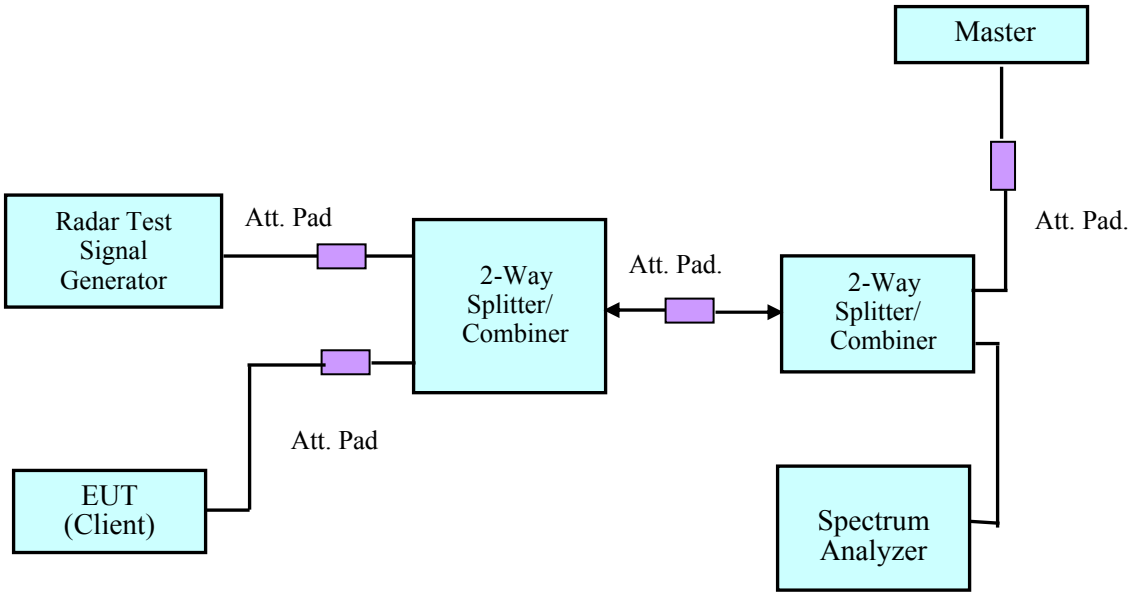
4.3 System Block Diagram



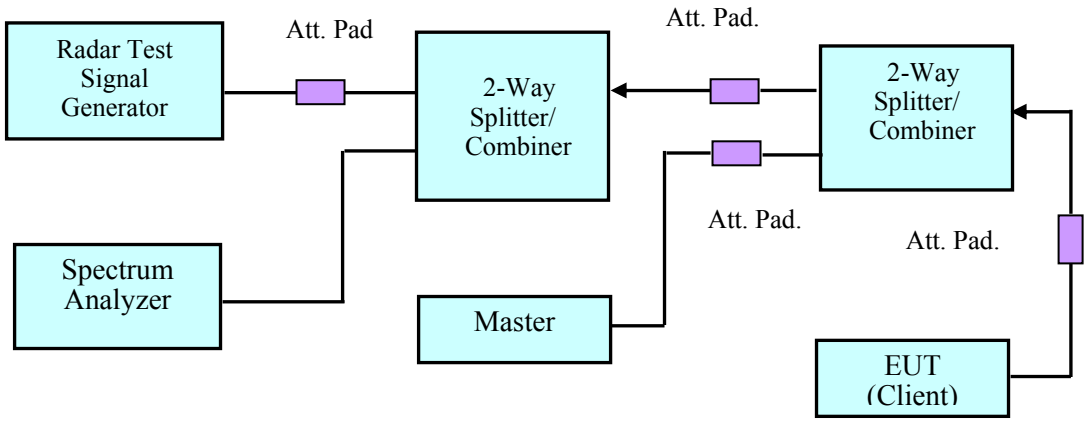
4.4 Conducted Method



Setup for Master with injection at the Master

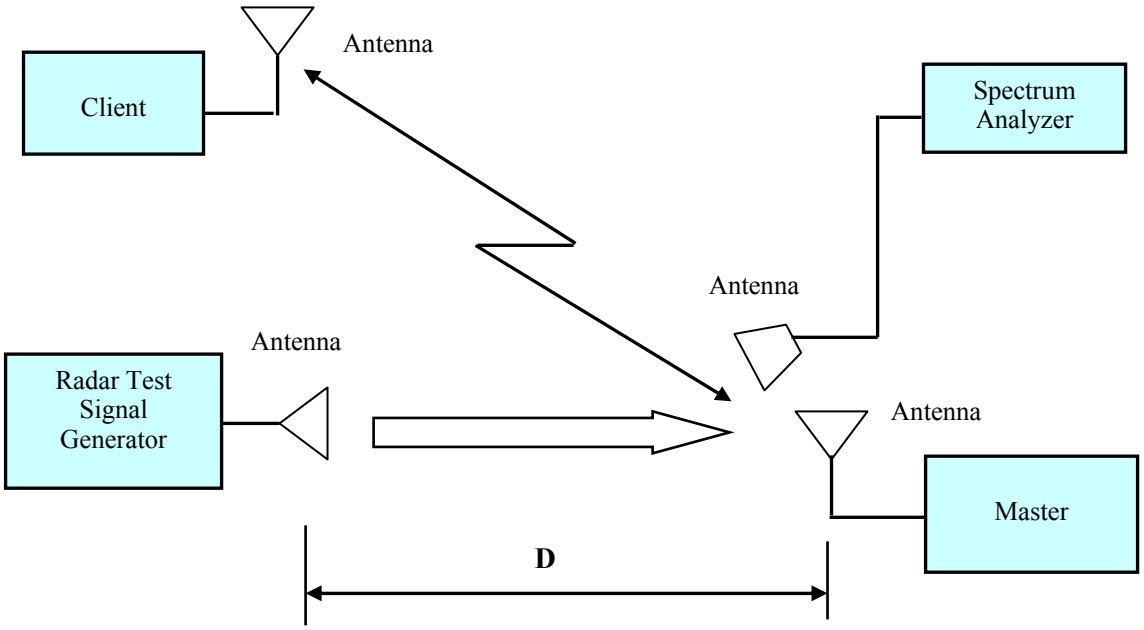


Setup for Client with injection at the Master



Setup for Client with injection at the Client

4.5 Radiated Method



4.6 Test Procedure

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

5 Test Results

5.1 Description of EUT

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

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

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

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

5.2 Antenna Description

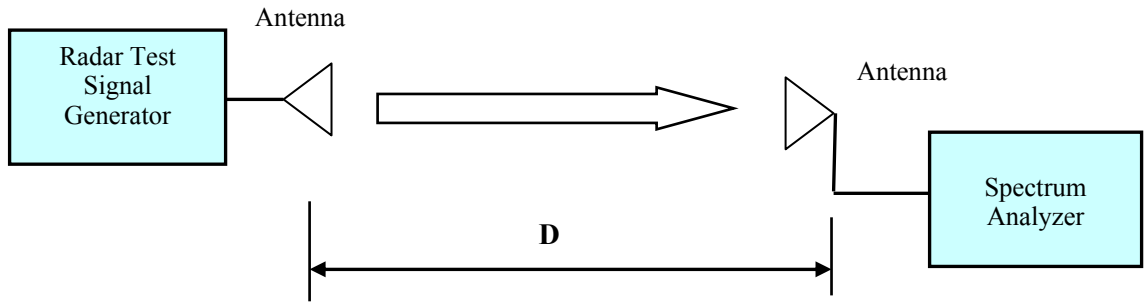
Radio	Antenna Type	Antenna Gain (dBi) @ 5 GHz
5 GHz	Internal	4.8

5.3 Test Equipment List and Details

Manufacturer	Equipment Description	Model	S/N	Calibration Date	Calibration Interval
National Instruments	NI PXI-1042 8-Slot chassis	PXI-1042	V08X01EE1	N/A	N/A
National Instruments	Arbitrary Waveform Generator	PXI-5421	N/A	N/A	N/A
National Instruments	RF Upconverter	PXI-5610	N/A	N/A	N/A
ASCOR	Upconverter	AS-7206	N/A	N/A	N/A
Agilent	Analyzer, Spectrum	N9010A	MY48030852	2018-10-22	2 year
Agilent	Analyzer, Spectrum	E4440A	US45303156	2019-03-04	1 year
A.R.A.	Antenna Horn	DRG-118/A	1132	2018-02-13	2 years
EMCO	Antenna Horn	3115	9511-4627	2018-03-28	2 years
Mini-Circuits	Splitter/Combiner	2FSC-2-10G	0349	N/A	N/A
Narda	Splitter/Combiner	4326B-2	03514	N/A	N/A
Midwest	Attenuator	290-30	N/A	N/A	N/A
Mini-Circuits	Attenuator	BW-S30W2	N/A	N/A	N/A

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

5.4 Radar Waveform Calibration



Radiated Calibration Setup Block Diagram

5.5 Test Environmental Conditions

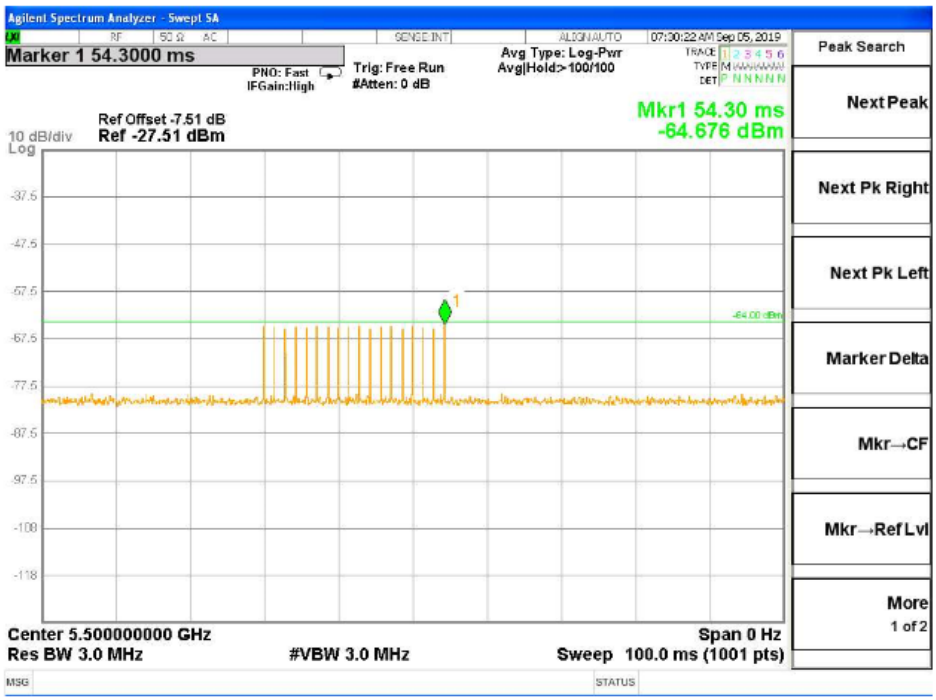
Temperature:	22-25° C
Relative Humidity:	45-48 %
ATM Pressure:	102.1 kPa

Testing was performed by Tri Pham on 2019-09-05 to 2019-09-06 in the DFS Test Site.

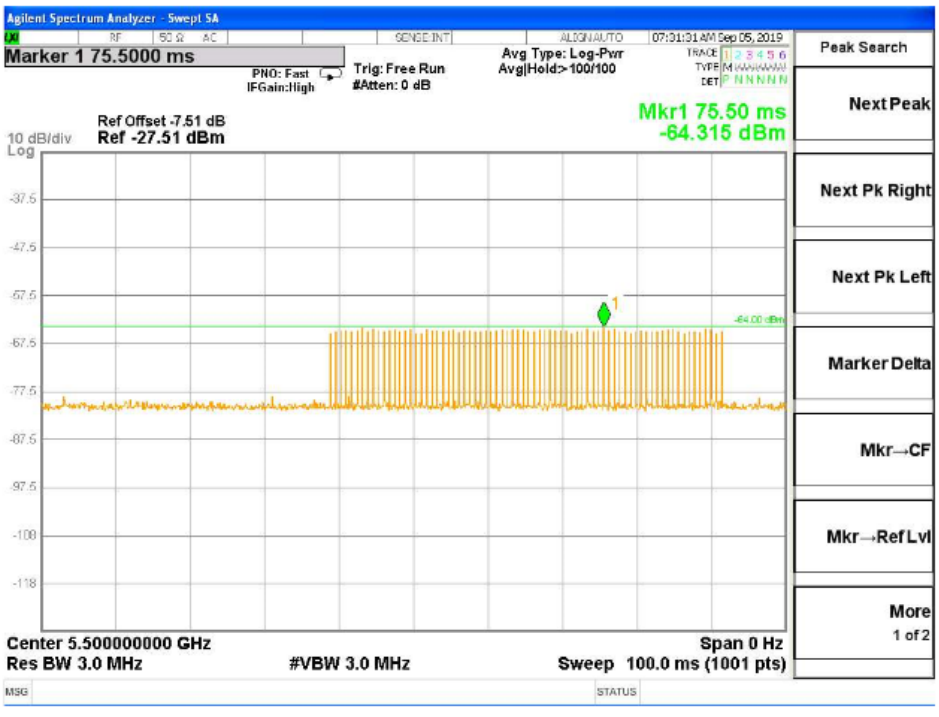
Plots of Radar Waveforms

5500 MHz

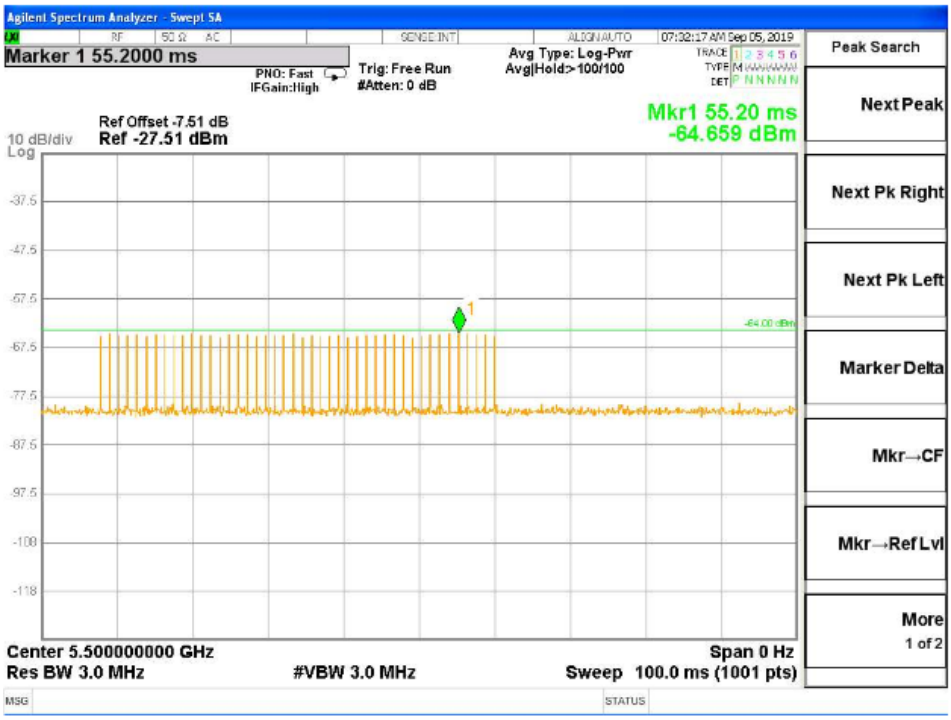
Radar Type 0



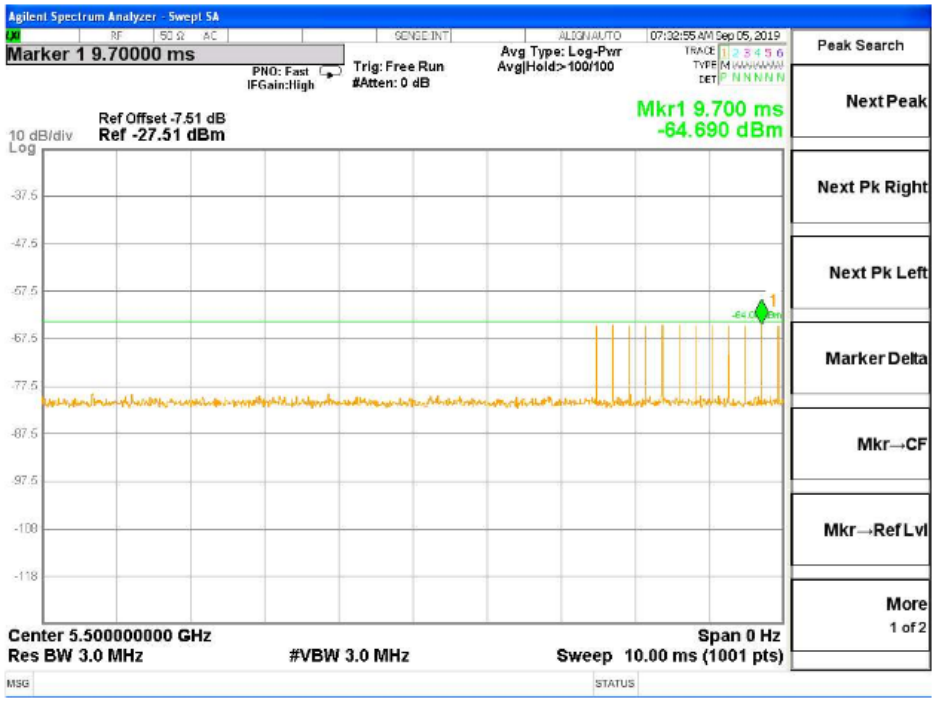
Radar Type 1A



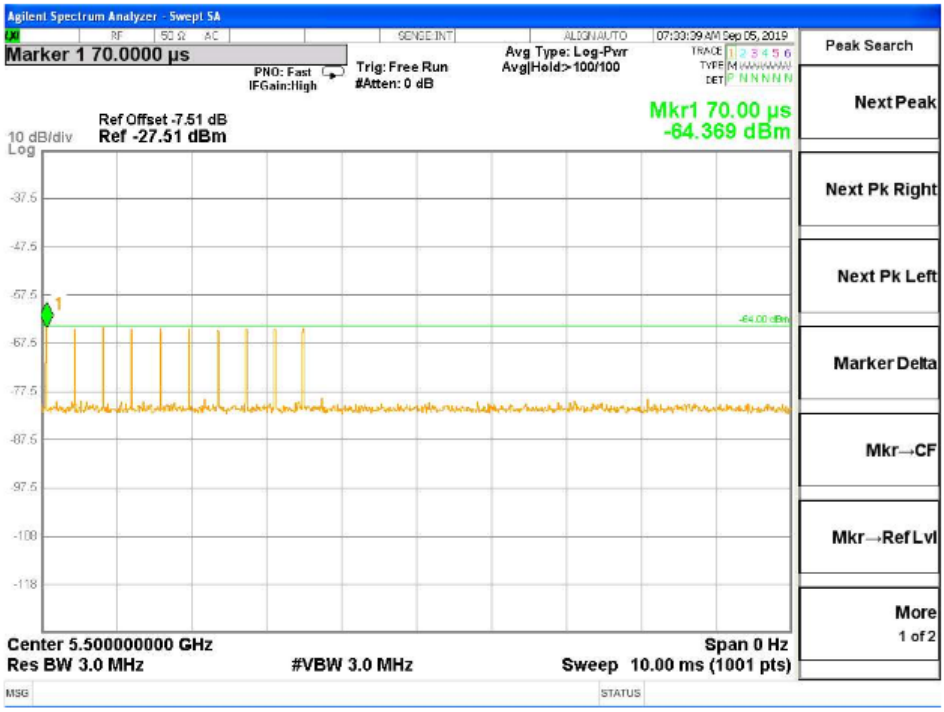
Radar Type 1B



Radar Type 2



Radar Type 3



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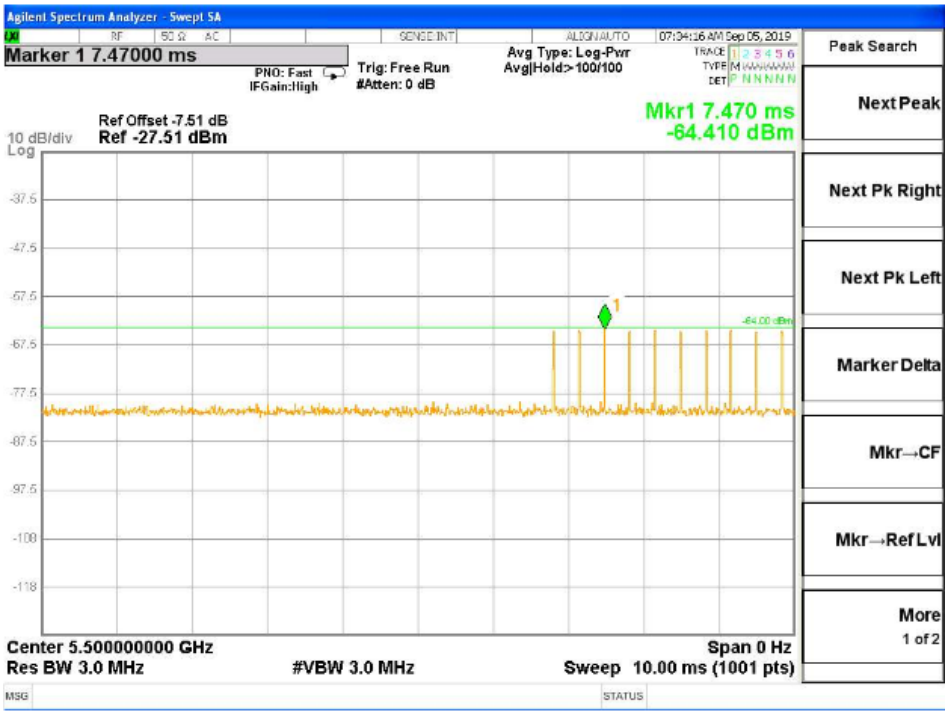
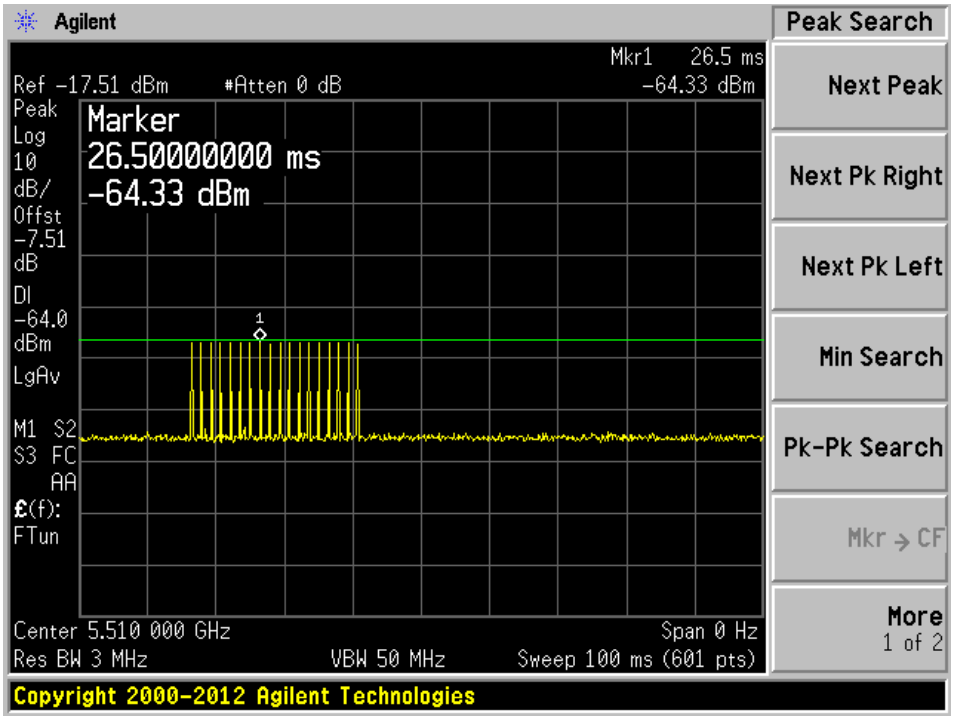


Radar Type 5

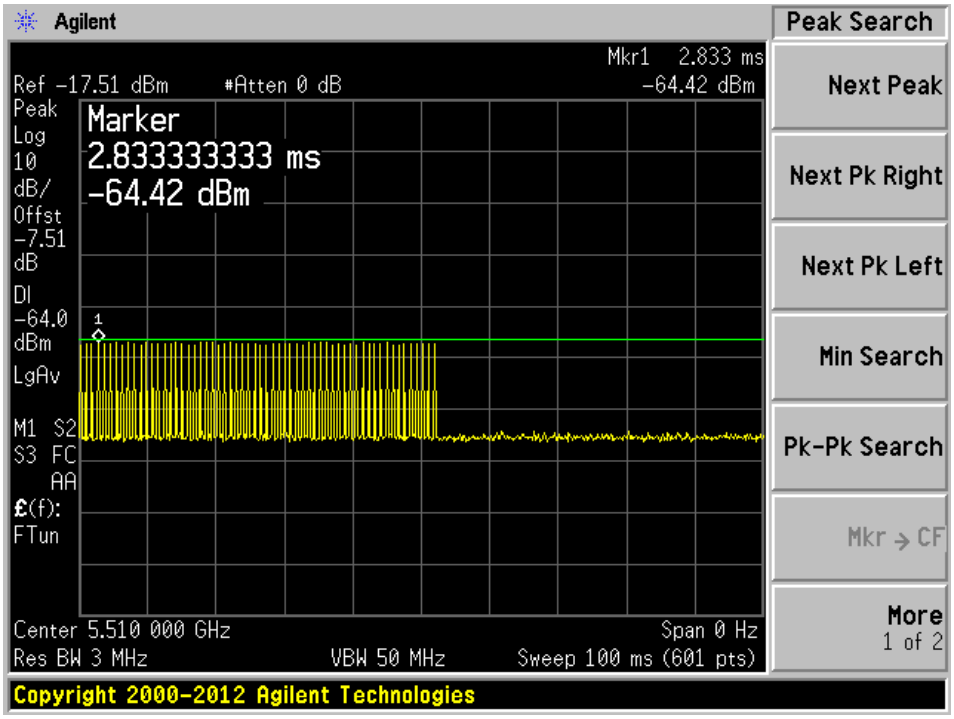
Radar Type 6

5510 MHz

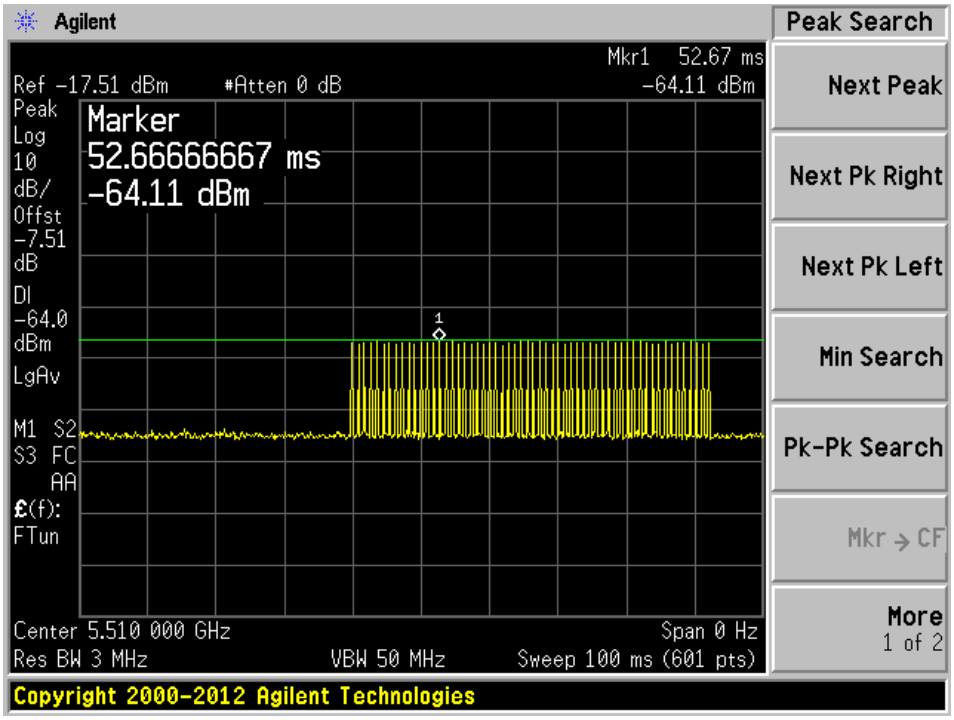
Radar Type 0



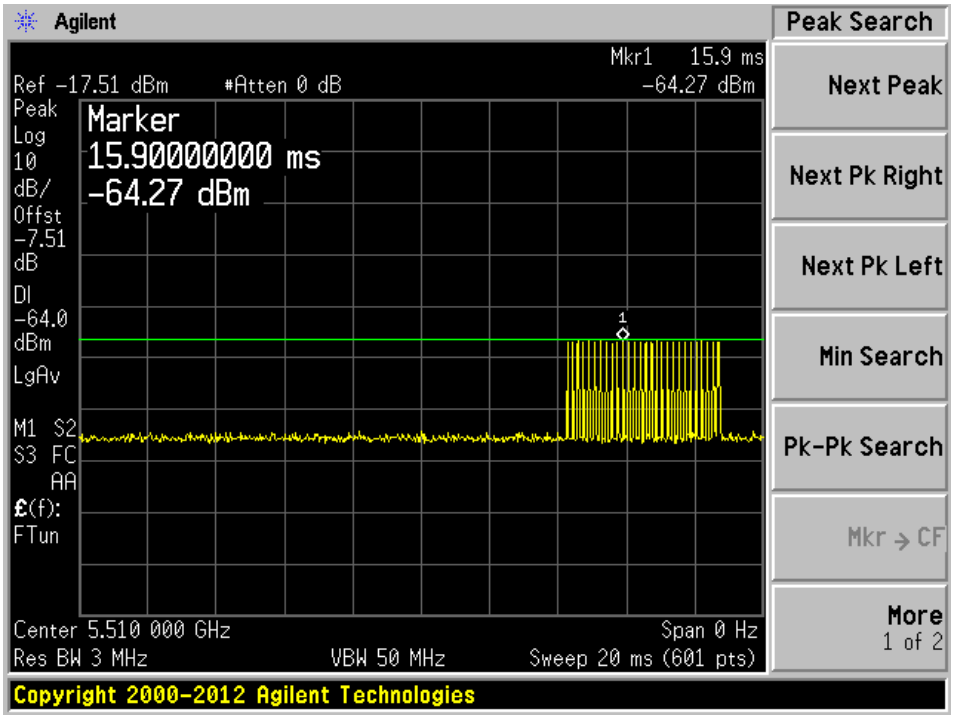
Radar Type 1A



Radar Type 1B



Radar Type 2



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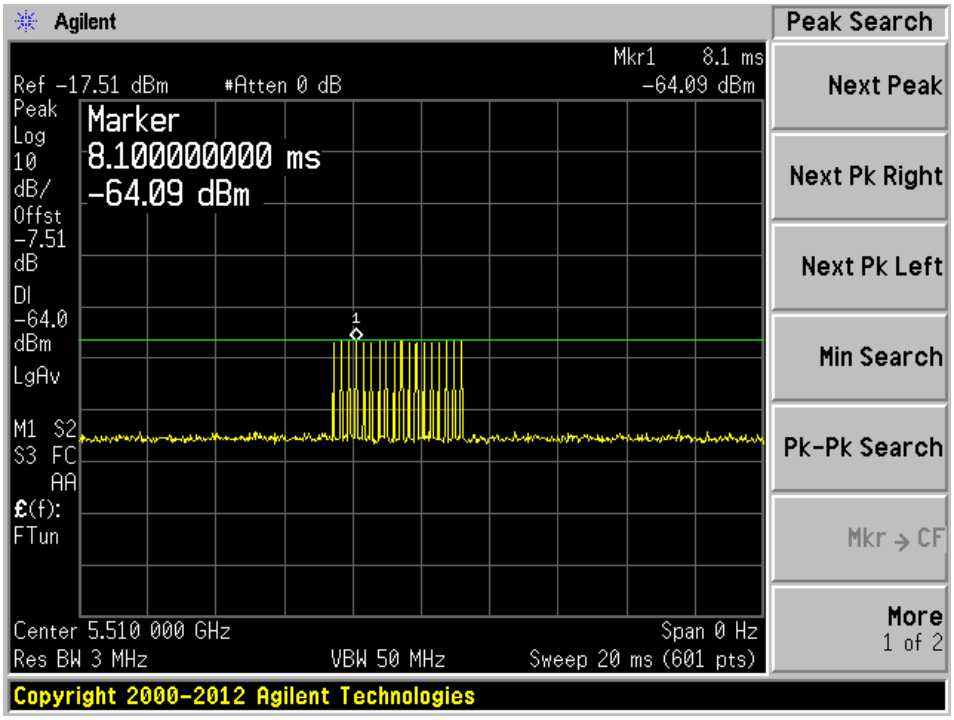

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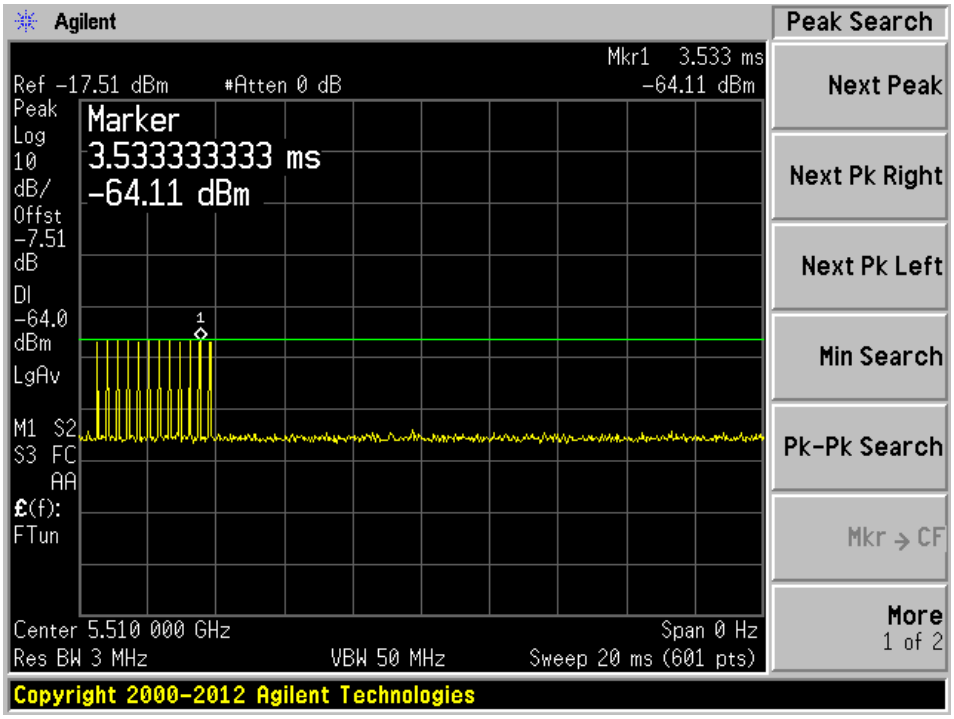

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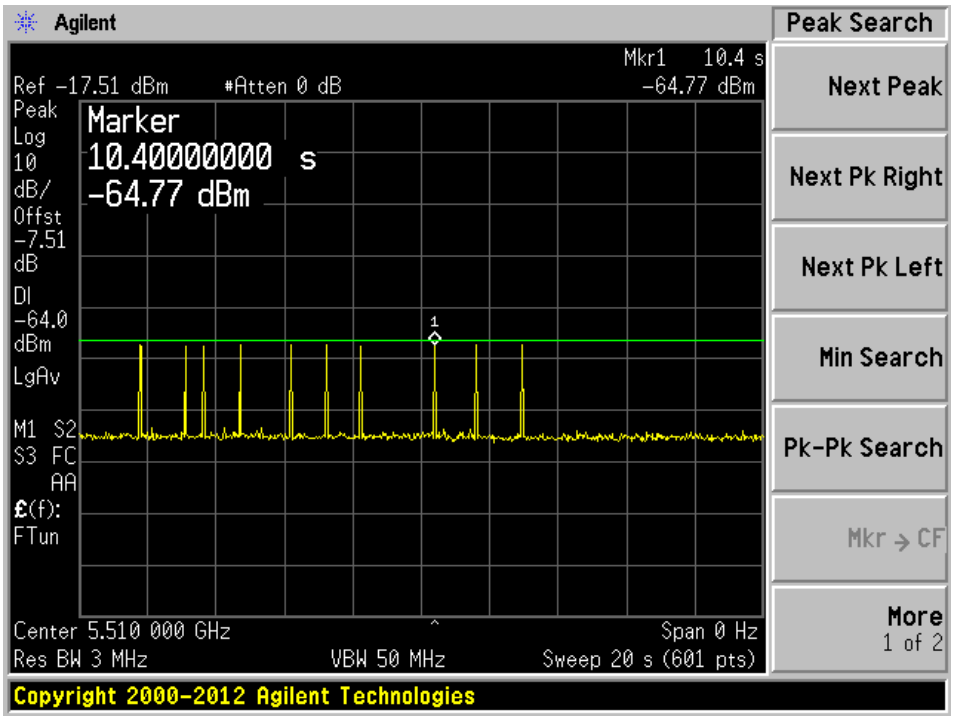
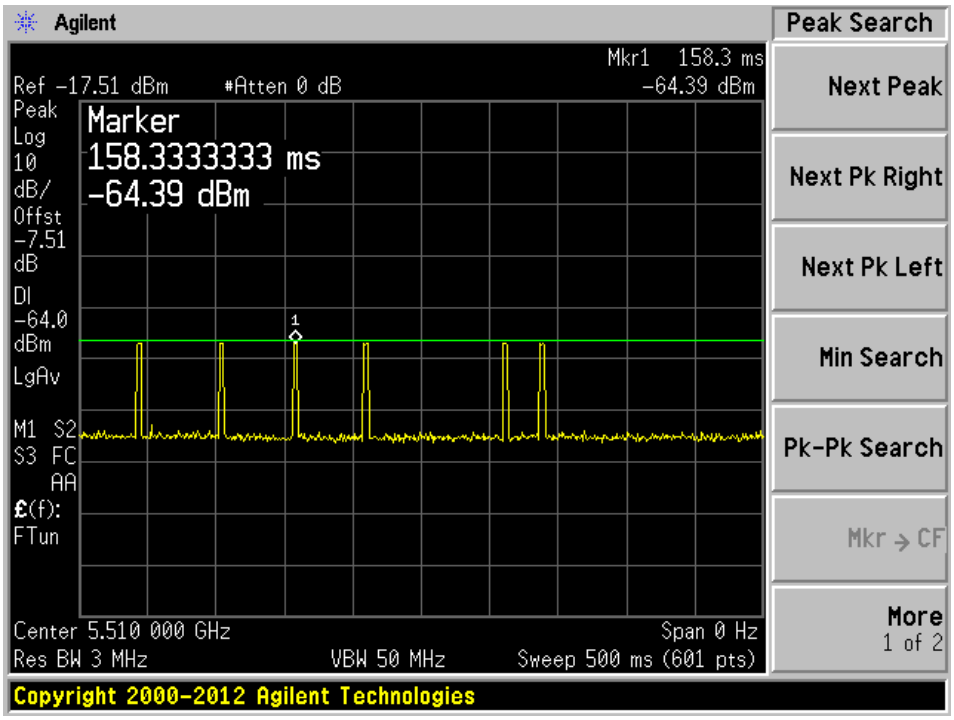
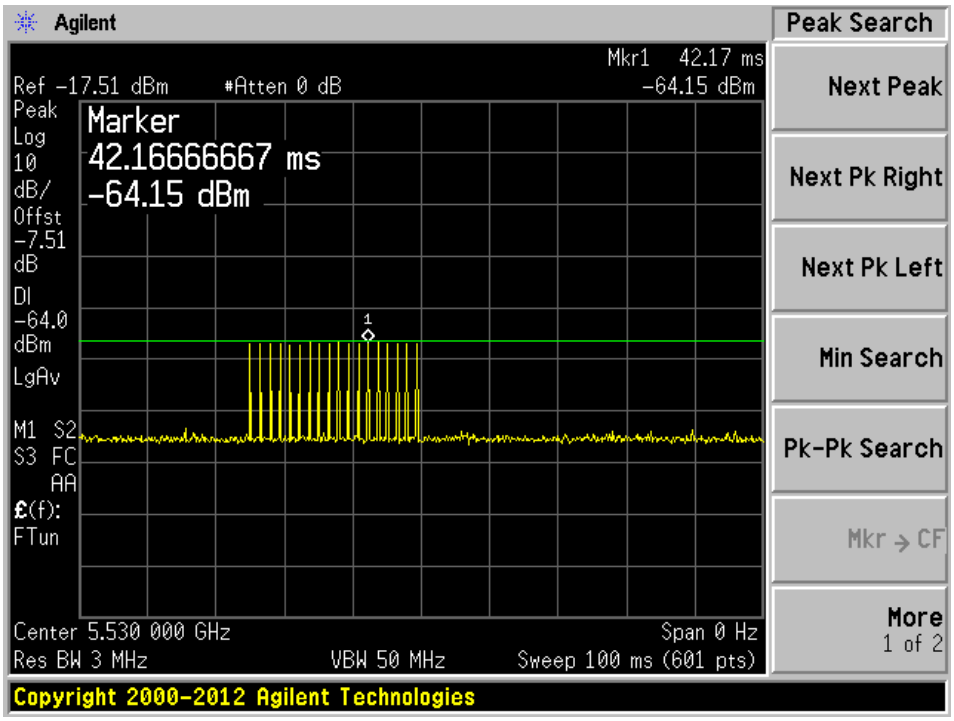


Radar Type 6

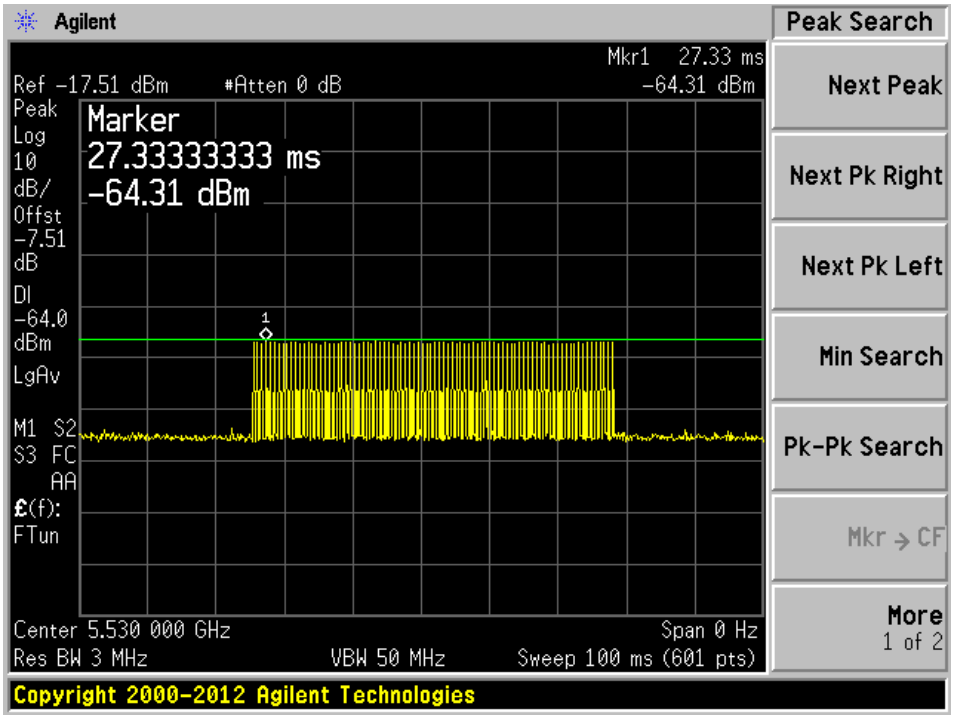


5530 MHz

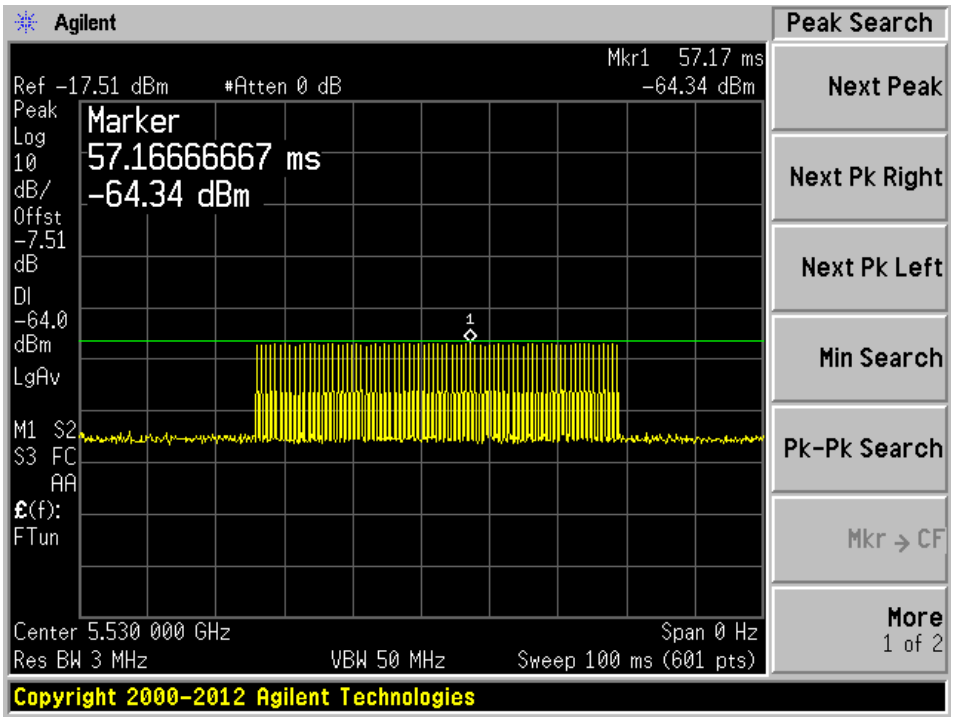
Radar Type 0



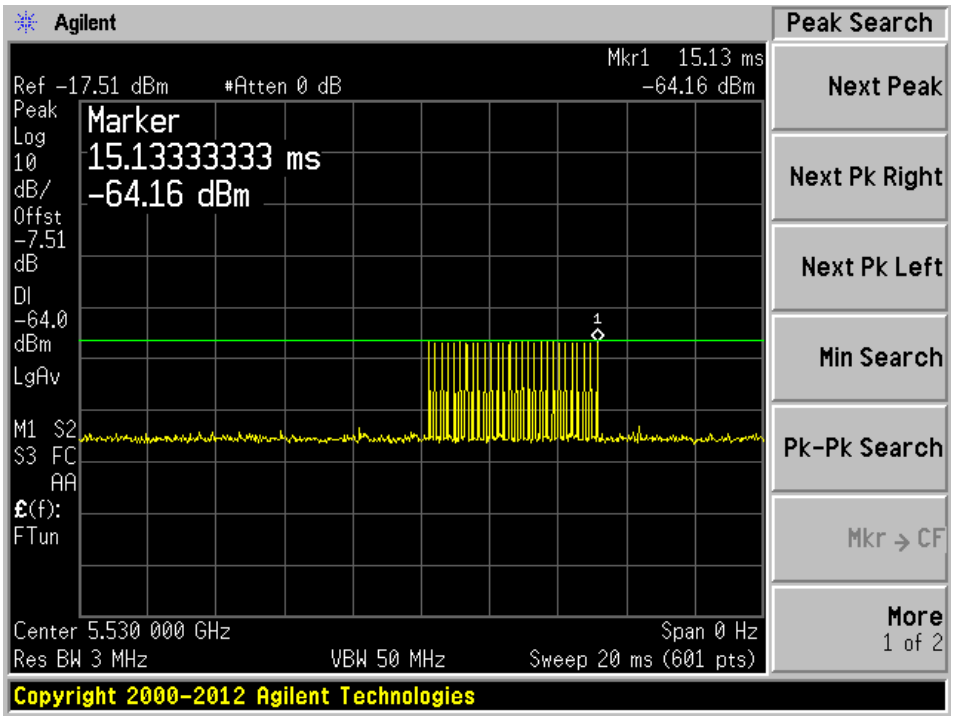
Radar Type 1A



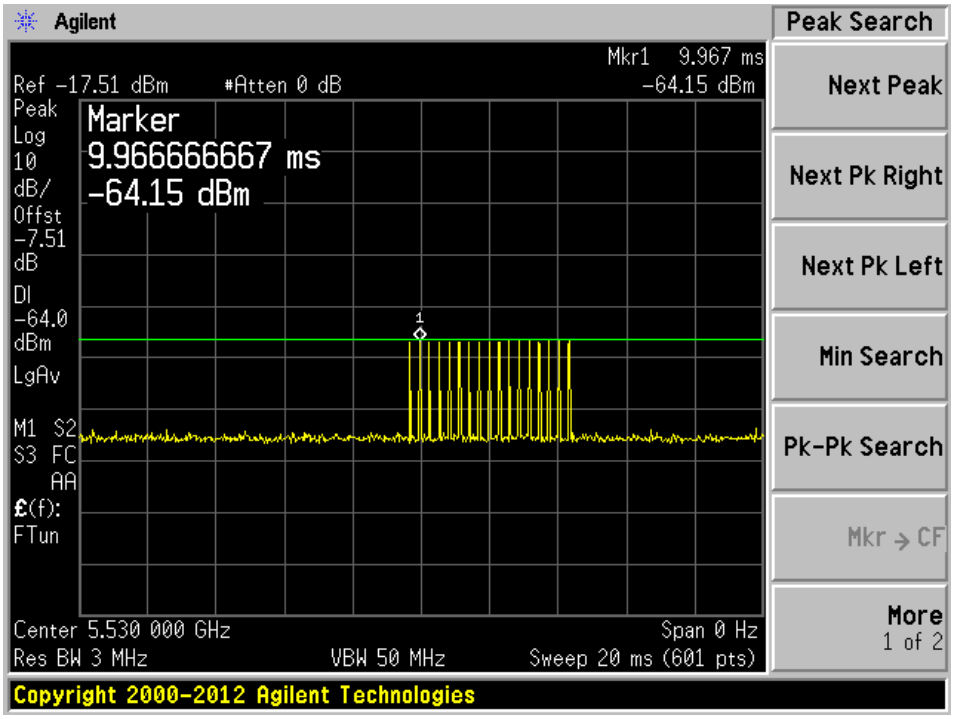
Radar Type 1B



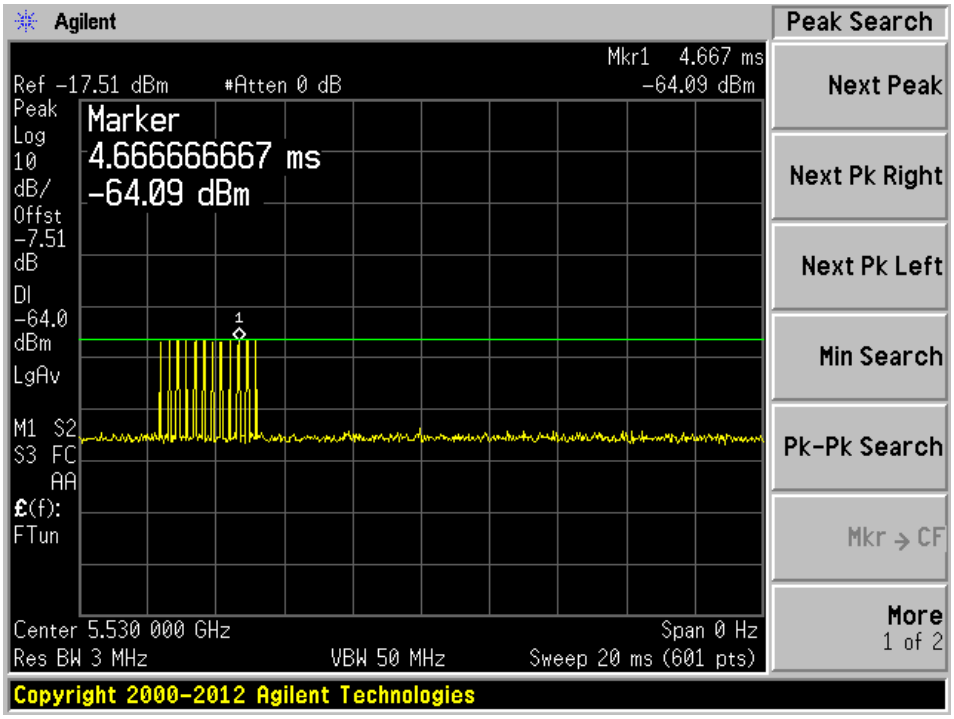
Radar Type 2



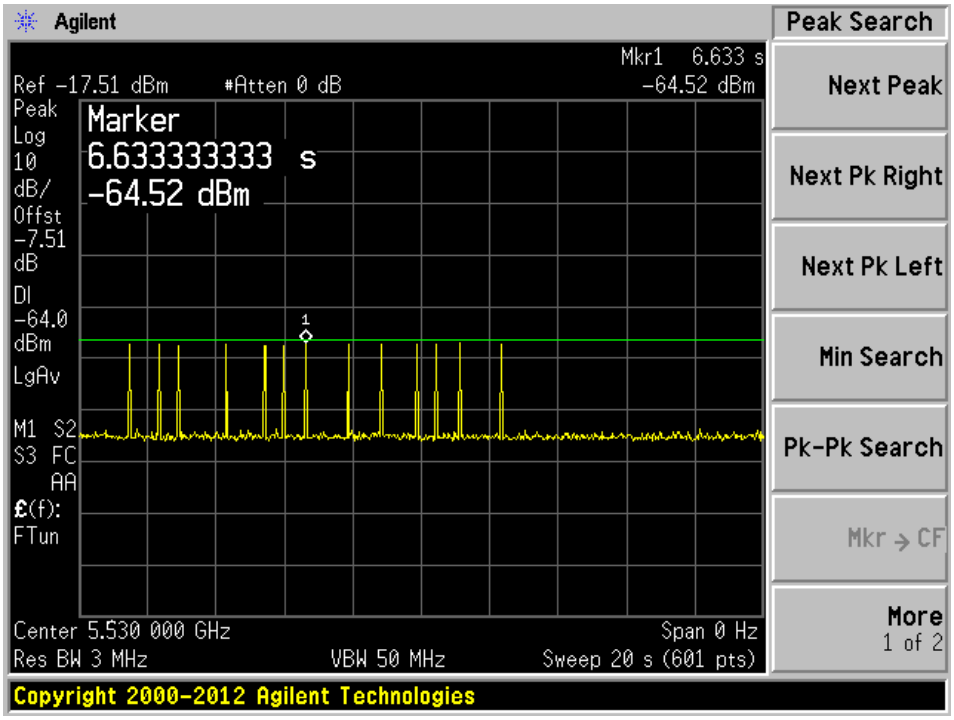
Radar Type 3



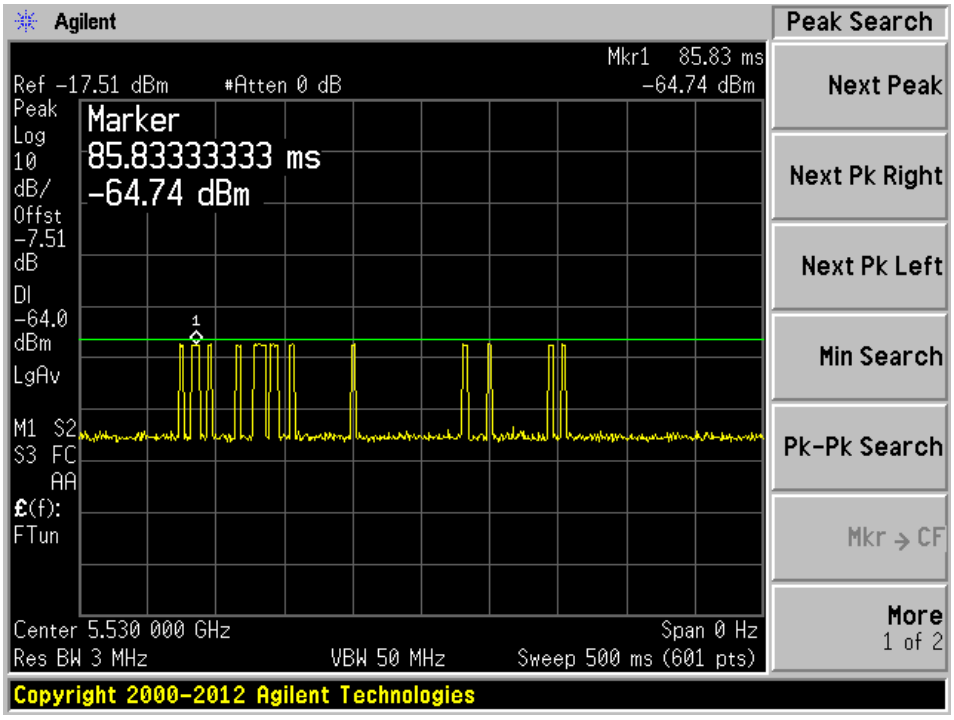
Radar Type 4



Radar Type 5



Radar Type 6



6 Channel Availability Check Time (CAC)

6.1 Test Procedure

1) Measure the CAC time period after executing the initiating CAC command.

2) With link established on channel, apply a radar signal within first 6 seconds after CAC starts; monitor the transmissions on channel from the spectrum analyzer.

3) With a link established on channel, apply a radar signal within last 6 seconds before CAC ends, and monitor the transmission on channel from the spectrum analyzer.

Note: EUT has command to initaiate CAC

6.2 Results:

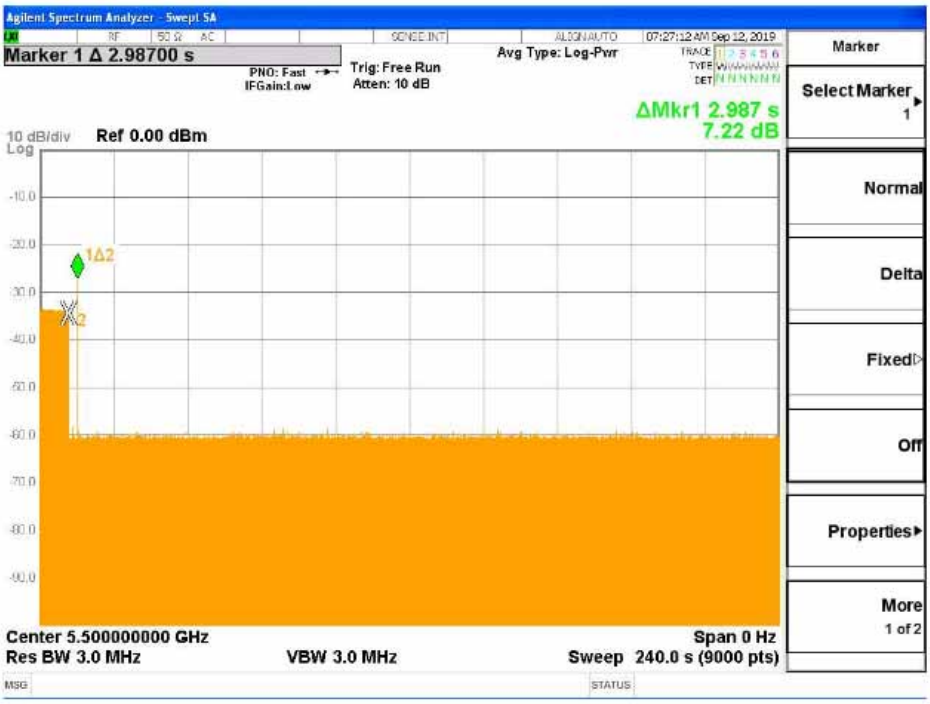
Timing of Radar Burst	Spectrum Analyzer Display	Result
No Radar Triggered	Total CAC Period 61 second	Pass
Within 6 seconds of the CAC starting	No transmission	Pass
Within the last 6 seconds of the CAC	No transmission	Pass

Note: The CAC was tested with the Radar type 0.

5500 MHz

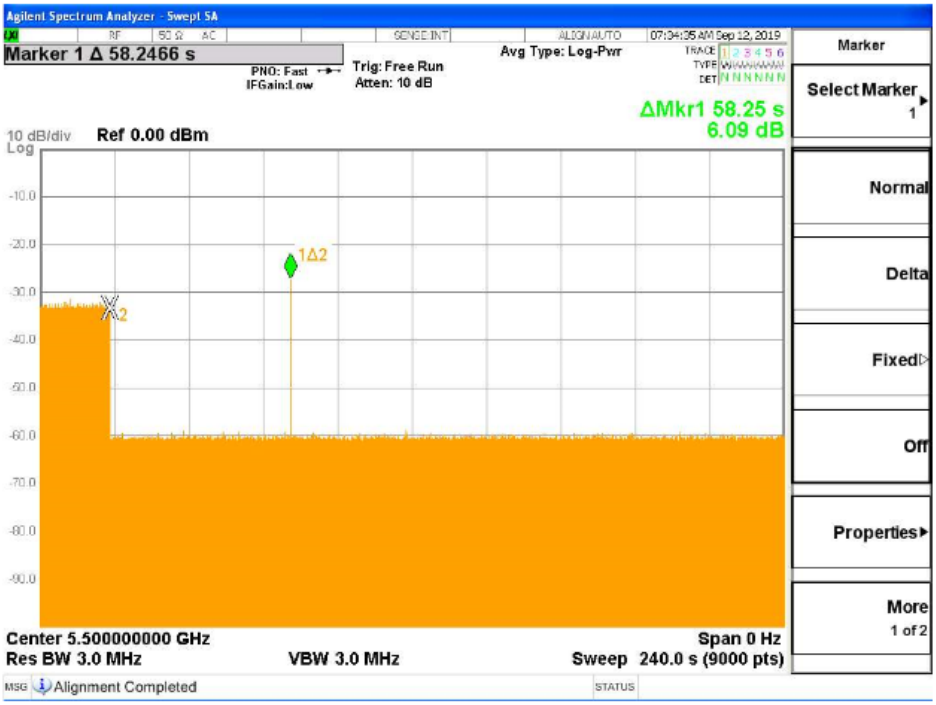
Plot of CAC Time Period

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



No transmissions found after radar signal applied.

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



No transmissions found after radar signal applied.

7 Channel Move Time and Channel Closing Transmission Time

7.1 Test Procedure

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

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time = N * Dwell Time

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

7.2 Test Results

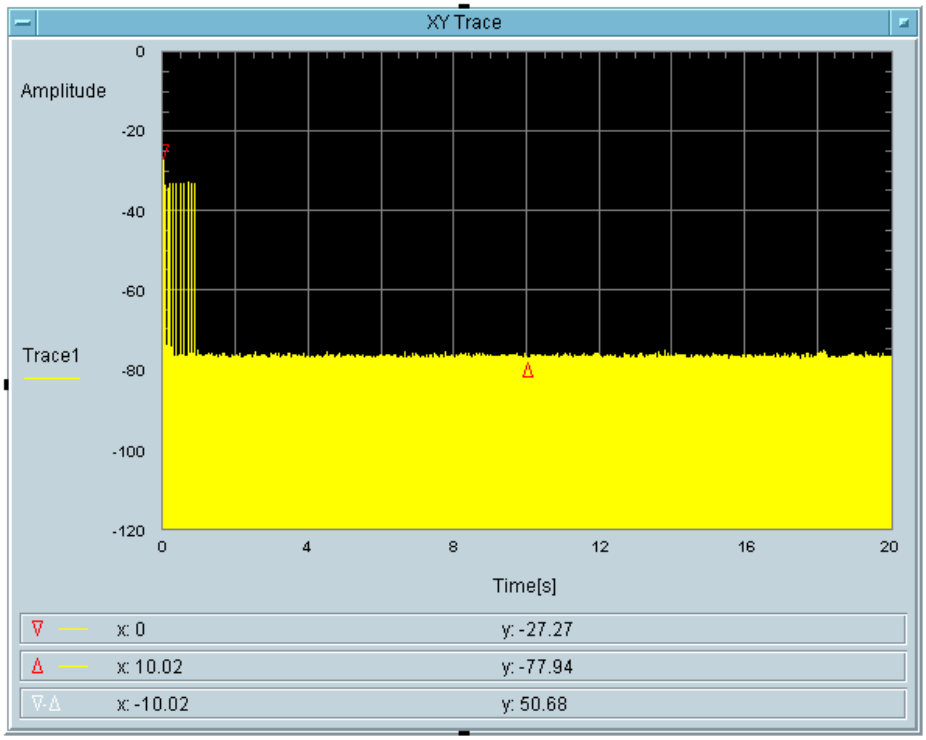
Frequency (MHz)	Bandwidth (MHz)	Radar Type	Results
5530	80	Type 0	Compliant

Please refer to the following tables and plots.

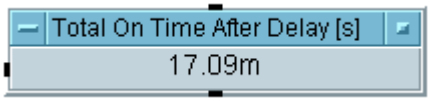
Type 0 radar channel move time and channel closing transmission time result:

Channel closing transmitting time (ms)	Limit (ms)	Result
36.62 + 17.09	200+60	Pass

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


XY Trace
Amplitude
0
-20
-40
-60
-80
-100
-120
Trace1
0
4
8
12
16
20
Time[s]
x: 0
y: -27.27
x: 10.02
y: -77.94
x: -10.02
y: 50.68


Total On Time [s]
36.62m


Total On Time After Delay [s]
17.09m

8 Non-Occupancy Period

8.1 Test Procedure

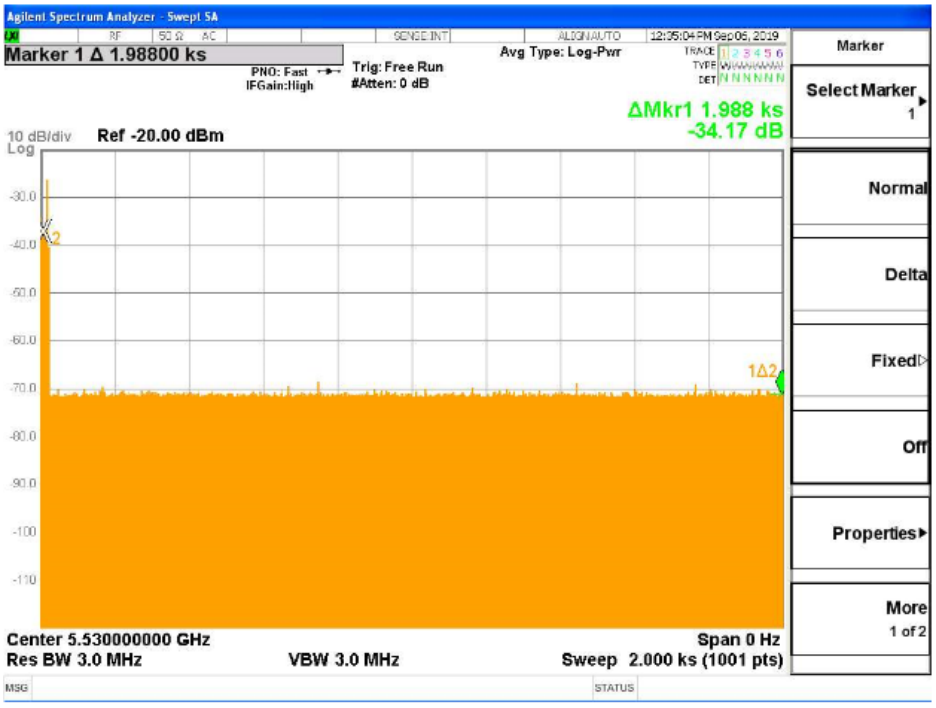
Measure the EUT for more than 30 minutes following the channel close/move time to very that the EUT does not resume any transmissions on this channel. Provide one plot to demonstrate no transmission on the channel for the non-occupancy period (30 minutes observation time)

8.2 Test Results

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

Please refer to the following plots.

5530 MHz, Bandwidth 80 MHz



9 Radar Detection Bandwidth & Radar Detection Performance Check

9.1 Detection Bandwidth

Procedure:

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

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

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

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

Test Results

Frequency (MHz)	F_L (MHz)	F_H (MHz)	Detection Bandwidth (MHz)	Minimum Limit (MHz)	Result
5500	5490	5510	20	18	Compliance
5510	5490	5530	40	37	Compliance
5530	5490	5570	80	76	Compliance

Please refer to the following tables.

Results of Detection Bandwidth:

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

EUT Frequency = 5510 MHz											
DFS Detection Trials (1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5489	0	0	0	0	0	0	0	0	0	0	0 %
5490(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5495	1	1	1	1	1	1	1	1	1	1	100 %
5500	1	1	1	1	1	1	1	1	1	1	100 %
5505	1	1	1	1	1	1	1	1	1	1	100 %
5510(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5515	1	1	1	1	1	1	1	1	1	1	100 %
5520	1	1	1	1	1	1	1	1	1	1	100 %
5525	1	1	1	1	1	1	1	1	1	1	100 %
5530(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5531	0	1	0	0	1	1	1	0	1	1	60 %
Detection Bandwidth = $F_H - F_L$=5530-5490=40 MHz											
EUT 99% OBW = 37 MHz; 37 x 100% = 37 MHz **Result:** Pass											

EUT Frequency = 5530 MHz											
DFS Detection Trials (1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5489	0	0	0	0	0	0	0	0	0	0	0 %
5490(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5495	1	1	1	1	1	1	1	1	1	1	100 %
5500	1	1	1	1	1	1	0	1	1	1	90 %
5505	1	1	1	1	0	1	1	1	1	1	90 %
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	0	1	90 %
5530(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5535	1	1	1	0	1	1	1	1	1	1	90 %
5540	1	1	1	1	0	1	1	1	1	1	90 %
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	0	1	1	1	1	1	90 %
5565	1	1	1	1	1	1	1	1	1	1	100 %
5570(F_H)	1	1	1	1	0	1	1	1	1	1	90 %
5571	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = $F_H - F_L$=5570-5490=80 MHz											
EUT 99% OBW = 76 MHz; 76 x 100% = 76 MHz **Result:** Pass											

9.2 Radar Detection Performance Check

Procedure:

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

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

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

Test Results:

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	86.7 %	60%	Pass
Type 3	30	93.3 %	60%	Pass
Type 4	30	83.3 %	60%	Pass
Aggregate (Type1 to 4)	120	90.8 %	80%	Pass
Type 5	30	83.3 %	80%	Pass
Type 6	30	96.7 %	70%	Pass

Please refer to the following statistical tables:

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

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5500	83	1	638	1
2	5500	63	1	838	1
3	5500	57	1	938	1
4	5500	62	1	858	1
5	5500	59	1	898	1
6	5491	78	1	678	1
7	5491	72	1	738	1
8	5491	81	1	658	1
9	5491	89	1	598	1
10	5491	58	1	918	1
11	5509	99	1	538	1
12	5509	61	1	878	1
13	5509	76	1	698	1
14	5509	74	1	718	1
15	5509	92	1	578	1
16	5500	49	1	1082	1
17	5500	30	1	1766	1
18	5500	57	1	939	1
19	5500	27	1	2017	1
20	5500	53	1	1003	1
21	5491	54	1	980	1
22	5491	24	1	2223	1
23	5491	46	1	1152	1
24	5491	84	1	632	1
25	5491	29	1	1882	1
26	5509	56	1	945	1
27	5509	22	1	2458	1
28	5509	18	1	2950	1
29	5509	81	1	652	1
30	5509	20	1	2658	1
Detection Percentage: 100 % (>60%)					

Table-2 Radar Type 2 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5500	27	1.2	207	1
2	5500	26	1.2	199	1
3	5500	25	1	173	1
4	5500	23	1.8	175	1
5	5500	29	3.4	230	1
6	5500	24	1.1	154	1
7	5500	23	1.2	190	0
8	5500	24	1.6	219	1
9	5500	23	1.7	221	0
10	5500	27	3.5	160	1
11	5491	28	2.1	202	1
12	5491	23	2.2	221	1
13	5491	27	1.2	225	1
14	5491	25	4.7	224	1
15	5491	27	5	162	0
16	5491	29	1.9	223	1
17	5491	23	1.8	214	1
18	5491	23	3.1	162	1
19	5491	29	3.5	197	1
20	5491	25	2.7	150	1
21	5509	25	4.1	153	1
22	5509	29	2.9	187	1
23	5509	23	2	183	1
24	5509	27	2.6	214	1
25	5509	24	3.2	221	1
26	5509	23	4.8	220	0
27	5509	25	1.3	159	1
28	5509	28	2	198	1
29	5509	26	2.9	153	1
30	5509	24	4.8	178	1
Detection Percentage: 86.7 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5500	17	7	413	1
2	5500	18	7.3	214	1
3	5500	16	9.3	377	1
4	5500	17	6.3	463	1
5	5500	18	6	421	1
6	5500	16	8.1	217	0
7	5500	16	8.6	268	1
8	5500	16	7.9	458	1
9	5500	16	7	258	1
10	5500	18	8.4	359	0
11	5491	16	7.4	214	1
12	5491	17	6.5	455	1
13	5491	16	6.5	486	1
14	5491	18	9.4	396	1
15	5491	18	9.3	486	1
16	5491	17	6	402	1
17	5491	17	7.6	356	1
18	5491	17	9.8	337	1
19	5491	17	8.6	340	1
20	5491	18	6.2	333	1
21	5509	17	10	415	1
22	5509	17	6	431	1
23	5509	16	7.7	200	1
24	5509	17	6.2	372	1
25	5509	17	6.7	231	1
26	5509	16	8.7	446	1
27	5509	17	8.6	204	1
28	5509	18	8.9	490	1
29	5509	18	6.4	483	1
30	5509	16	9.1	499	1
Detection Percentage: 93.3 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5500	13	12.5	221	1
2	5500	13	18.4	419	1
3	5500	16	19.6	306	1
4	5500	13	18.5	324	1
5	5500	15	16.9	206	1
6	5500	15	14.6	389	1
7	5500	12	16.5	303	1
8	5500	13	15.8	378	1
9	5500	12	18	367	1
10	5500	13	15.6	445	1
11	5491	15	16.2	405	1
12	5491	13	16.6	204	1
13	5491	16	15.5	443	1
14	5491	12	19.6	296	1
15	5491	16	16.1	258	1
16	5491	12	13.4	326	0
17	5491	13	14	244	1
18	5491	13	18.3	370	0
19	5491	12	17.2	449	1
20	5491	16	11.8	219	1
21	5509	15	14	389	1
22	5509	13	11.5	346	0
23	5509	15	12.1	203	1
24	5509	13	16.7	400	1
25	5509	14	18	469	0
26	5509	15	14.4	320	1
27	5509	16	13.2	495	1
28	5509	12	16.7	206	1
29	5509	15	12.6	485	1
30	5509	14	19.9	444	0
Detection Percentage: 83.3% (>60%)					

Table-5 Radar Type 5 Statistical Performance

Trial #	Fc (MHz)	Detection (1:yes; 0:no)
1	5500	1
2	5500	1
3	5500	1
4	5500	1
5	5500	1
6	5500	0
7	5500	1
8	5500	1
9	5500	1
10	5500	0
11	5496.2	1
12	5493.4	1
13	5498.6	1
14	5496.6	0
15	5495.8	1
16	5497.0	1
17	5495.8	1
18	5498.6	1
19	5496.6	1
20	5496.2	1
21	5506.2	1
22	5502.2	1
23	5503.4	1
24	5504.2	1
25	5505.0	0
26	5503.0	1
27	5501.4	1
28	5505.4	0
29	5501.0	1
30	5501.4	1
Detection Percentage: 83.3 % (>80%)		

Bin5 Statistics 1

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	12	55.4	1742	-	0.626091	1
1	1	12	50.2	-	-	1.869095	
2	2	12	52.4	1947	-	2.290281	
3	1	12	90.9	-	-	3.524464	
4	3	12	77.6	1065	1675	4.074362	
5	2	12	81	1658	-	5.411495	
6	3	12	83	1217	1419	6.56933	
7	2	12	98.2	1222	-	7.11342	
8	1	12	58	-	-	8.711734	
9	2	12	52	1783	-	9.708789	
10	2	12	78	1938	-	10.946281	
11	3	12	89.8	1015	1967	11.80984	

Bin5 Statistics 2

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	12	73.6	1186	-	0.078172	1
1	2	12	73.1	1773	-	0.64221	
2	2	12	87	1935	-	1.51752	
3	2	12	65.9	1030	-	2.172339	
4	2	12	82.5	1991	-	2.796603	
5	3	12	98.7	1968	1858	3.348729	
6	3	12	71.3	1181	1691	4.156264	
7	1	12	89.3	-	-	4.774997	
8	2	12	82.5	1533	-	5.305738	
9	2	12	71.4	1105	-	5.728942	
10	2	12	89	1039	-	6.456169	
11	2	12	74.5	1382	-	6.634297	
12	2	12	88.6	1465	-	7.70337	
13	3	12	80.5	1998	1943	8.264596	
14	3	12	64.3	1341	1660	8.873464	
15	3	12	93	1880	1791	9.581036	
16	2	12	70	1529	-	10.17171	
17	3	12	99.9	1083	1408	10.310444	
18	3	12	80.5	1638	1665	10.930901	
19	3	12	57.1	1299	1725	11.525772	

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	12	88.1	1390	-	0.87795	1
1	2	12	54.2	1638	-	1.685941	
2	2	12	69.5	1140	-	2.462817	
3	3	12	92.8	1549	1777	3.89477	
4	3	12	51.6	1724	1130	4.748407	
5	2	12	89	1046	-	5.764899	
6	1	12	60	-	-	6.231281	
7	3	12	91.9	1935	1101	7.56359	
8	2	12	69.5	1532	-	8.873422	
9	1	12	70.7	-	-	9.104782	
10	1	12	98.8	-	-	10.681522	
11	2	12	53.3	1287	-	11.366278	

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	11	96.5	1602	-	0.468726	1
1	3	11	57	1609	1983	1.330919	
2	3	11	74.3	1133	1311	2.093896	
3	1	11	88.5	-	-	2.49969	
4	1	11	68.6	-	-	3.303387	
5	2	11	69.5	1086	-	4.082561	
6	2	11	99.9	1854	-	4.82274	
7	1	11	78.3	-	-	5.540128	
8	2	11	74	1714	-	6.258219	
9	2	11	63.3	1973	-	6.377806	
10	2	11	99.8	1077	-	7.191048	
11	3	11	93.3	1899	1649	8.394797	
12	3	11	64.8	1644	1356	8.869419	
13	3	11	54.4	1980	1992	9.751452	
14	1	11	79.9	-	-	10.508474	
15	2	11	55.8	1442	-	10.613917	
16	2	11	69.5	1083	-	11.672675	

Bin5 Statistics 5

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	10	57.6	-	-	0.164541	1
1	2	10	93.6	1407	-	1.186257	
2	3	10	90.5	1093	1927	2.493477	
3	3	10	82.8	1195	1216	3.300596	
4	2	10	72.7	1238	-	4.791101	
5	3	10	61.1	1330	1605	5.786505	
6	3	10	93.6	1193	1517	6.945462	
7	1	10	59.3	-	-	7.364967	
8	1	10	77.5	-	-	8.959619	
9	2	10	73.2	1283	-	9.941888	
10	2	10	59.5	1866	-	10.876065	
11	3	10	92.9	1552	1374	11.409311	

Bin5 Statistics 6

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	9	50.1	1141	-	0.280769	0
1	2	9	83.2	1884	-	1.889844	
2	2	9	97.8	1490	-	2.409933	
3	1	9	59.5	-	-	3.74819	
4	1	9	72.7	-	-	4.618174	
5	2	9	92	1112	-	5.934193	
6	1	9	90.5	-	-	6.873334	
7	2	9	81.9	1760	-	7.447796	
8	2	9	83.5	1132	-	8.414366	
9	3	9	57.2	1690	1572	9.888539	
10	2	9	95.4	1725	-	10.132519	
11	2	9	70.6	1089	-	11.829258	

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	12	96.4	1806	-	0.234256	1
1	3	12	58.1	1618	1652	1.306137	
2	1	12	86.1	-	-	2.424403	
3	3	12	94	1927	1250	3.55046	
4	2	12	98.2	1764	-	4.681757	
5	1	12	54.4	-	-	5.137236	
6	2	12	90.1	1479	-	6.670705	
7	2	12	81.8	1033	-	7.271684	
8	3	12	71.4	1373	1820	8.468932	
9	3	12	92.6	1098	1132	9.517116	
10	1	12	80	-	-	10.432442	
11	1	12	54.4	-	-	11.393353	

Bin5 Statistics 8

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	6	69.3	-	-	0.475173	1
1	3	6	96.7	1015	1541	1.534112	
2	3	6	97	1945	1210	2.319346	
3	1	6	56.5	-	-	2.672961	
4	3	6	97	1067	-	3.432316	
5	2	6	60.6	1993	-	4.478356	
6	2	6	53	1012	-	4.837879	
7	2	6	58.7	1106	-	6.034956	
8	2	6	60.4	1441	-	6.587287	
9	1	6	96.4	-	-	7.626697	
10	3	6	68	1990	1614	8.717351	
11	3	6	58.6	1600	1737	8.844765	
12	3	6	61.5	1747	1709	10.351636	
13	2	6	86.7	1886	-	10.66847	
14	2	6	66.1	1470	-	11.918934	

Bin5 Statistics 9

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	12	67.9	-	-	0.398483	1
1	2	12	81.6	1536	-	1.356151	
2	2	12	89	1163	-	1.998326	
3	1	12	91.7	-	-	2.603191	
4	2	12	99.9	1858	-	3.391181	
5	2	12	94.3	1786	-	4.633091	
6	3	12	88.5	1339	1864	5.11986	
7	2	12	94.6	1571	-	6.235101	
8	3	12	84.7	1309	1413	6.875467	
9	3	12	87	1818	1606	7.667614	
10	2	12	66.4	1924	-	8.207891	
11	1	12	82.7	-	-	9.038661	
12	1	12	82.8	-	-	9.638325	
13	2	12	74.3	1774	-	11.047391	
14	3	12	93.4	1695	1566	11.354567	

Bin5 Statistics 10

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	13	78	-	-	0.234728	0
1	1	13	87.1	-	-	0.662418	
2	2	13	69.9	1426	-	1.673596	
3	2	13	87.8	1489	-	2.431656	
4	2	13	81.7	1689	-	2.537749	
5	2	13	83.9	1501	-	3.680541	
6	2	13	61.6	1602	-	4.29796	
7	2	13	98.6	1325	-	4.778873	
8	2	13	95.4	1314	-	5.57908	
9	2	13	86.8	1661	-	5.918207	
10	2	13	78.4	1500	-	6.331344	
11	2	13	70.7	1718	-	7.136481	
12	2	13	97.8	1817	-	7.617369	
13	2	13	56.3	1803	-	8.383618	
14	1	13	52.6	-	-	9.166074	
15	1	13	53.4	-	-	9.59502	
16	3	13	79.3	1129	1258	10.153193	
17	2	13	55.3	1954	-	11.067863	
18	3	13	90.2	1927	1573	11.771859	

Bin5 Statistics 11

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	13	68.3	1183	1713	0.429065	
1	3	13	87.6	1158	1202	0.779572	
2	2	13	56.4	1886	-	1.854624	
3	3	13	82.3	1091	1338	1.918485	
4	2	13	95.3	1779	-	2.977165	
5	3	13	90.6	1312	1455	3.211989	
6	2	13	50.3	1012	-	3.834687	
7	2	13	79.4	1246	-	4.628163	
8	1	13	89.9	-	-	5.419565	
9	2	13	56.2	1960	-	6.104963	1
10	1	13	57.9	-	-	6.943441	
11	3	13	54.2	1668	1424	7.128419	
12	2	13	63.3	1496	-	7.996823	
13	2	13	96.8	1075	-	8.826624	
14	3	13	75.4	1556	1850	9.303349	
15	2	13	55.7	1169	-	9.907113	
16	1	13	82.8	-	-	10.412317	
17	1	13	85.5	-	-	10.773388	
18	1	13	75.6	-	-	11.639693	

Bin5 Statistics 12

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	6	88.1	1163	-	0.544718	
1	2	6	84.2	1791	-	0.749277	
2	2	6	71.2	1523	-	1.822934	
3	2	6	69.8	1163	-	2.806245	
4	1	6	72.9	-	-	2.89333	
5	2	6	91.5	1078	-	3.927312	
6	1	6	85.2	-	-	4.800986	
7	2	6	67.9	1427	-	5.093792	
8	2	6	59.4	1863	-	6.039786	1
9	2	6	88.1	1127	-	6.77066	
10	2	6	67.8	1818	-	7.656328	
11	2	6	99.5	1293	-	7.934539	
12	1	6	53.2	-	-	8.849509	
13	2	6	83.6	1800	-	9.636618	
14	2	6	81.8	1233	-	10.069487	
15	1	6	82.6	-	-	10.914125	
16	1	6	65.3	-	-	11.345649	

Bin5 Statistics 13

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	19	98	1462	-	0.532873	1
1	1	19	97.3	-	-	1.547084	
2	2	19	64.2	1148	-	2.642912	
3	2	19	61	1509	-	3.660931	
4	3	19	99	1328	1360	5.219698	
5	2	19	83.5	1585	-	6.187981	
6	1	19	69.4	-	-	6.843392	
7	3	19	54.7	1092	1222	8.562725	
8	2	19	63.1	1789	-	8.8572	
9	2	19	51.4	1915	-	10.539651	
10	1	19	91.1	-	-	11.134515	

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	80.6	-	-	0.658049	0
1	1	14	99.5	-	-	2.251673	
2	3	14	53.5	1132	1885	2.865755	
3	3	14	71.9	1457	1457	4.205239	
4	1	14	68.2	-	-	5.624065	
5	2	14	72.2	1547	-	7.290218	
6	1	14	90.6	-	-	8.987342	
7	2	14	90.8	1251	-	9.384247	
8	2	14	91.4	1381	-	10.80283	

Bin5 Statistics 15

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	12	85.2	-	-	0.404361	1
1	2	12	71.4	1916	-	1.127092	
2	1	12	63.6	-	-	2.390148	
3	2	12	100	1551	-	3.22603	
4	3	12	52.3	1030	1765	3.957174	
5	2	12	85.2	1841	-	4.944657	
6	2	12	83.1	1898	-	5.886429	
7	3	12	78.3	1913	1644	6.791218	
8	1	12	85.1	-	-	7.938214	
9	2	12	94.8	1738	-	8.716705	
10	3	12	73.2	1675	1474	10.000629	
11	1	12	87.1	-	-	10.438518	
12	3	12	63.6	1452	1315	11.581588	

Bin5 Statistics 16

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	15	89	1199	1374	0.289807	1
1	2	15	93.2	1395	-	1.0235	
2	1	15	80.1	-	-	2.565762	
3	3	15	69.1	1857	1181	3.708706	
4	1	15	79.5	-	-	4.792726	
5	1	15	90.6	-	-	5.764923	
6	2	15	75.3	1985	-	6.624548	
7	2	15	85	1191	-	7.21737	
8	1	15	51.8	-	-	8.52639	
9	3	15	71.2	1506	1032	9.261341	
10	3	15	57.5	1043	1478	10.730847	
11	2	15	98.5	1088	-	11.456451	

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	12	77.4	1567	-	0.151851	1
1	2	12	68.2	1567	-	0.995216	
2	2	12	90.4	1480	-	2.012923	
3	3	12	65.2	1227	1552	3.123848	
4	1	12	60.7	-	-	3.671081	
5	2	12	79.6	1246	-	4.541277	
6	3	12	77	1579	1487	5.780994	
7	2	12	73.4	1673	-	6.825447	
8	2	12	51.8	1623	-	7.681129	
9	1	12	97.5	-	-	8.371016	
10	3	12	52.7	1269	1241	9.293093	
11	2	12	98.1	1070	-	9.620314	
12	2	12	60.8	1114	-	11.057901	
13	1	12	72.4	-	-	11.156234	

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	19	74.6	-	-	0.712713	1
1	3	19	93.6	1454	1620	1.722277	
2	1	19	74.1	-	-	2.579707	
3	3	19	96.6	1361	1755	3.316212	
4	2	19	80.1	1177	-	5.315578	
5	2	19	92.9	1776	-	6.140063	
6	2	19	64.1	1664	-	6.911681	
7	2	19	56.7	1323	-	7.836881	
8	3	19	74.8	1868	1413	9.295935	
9	2	19	91.4	1882	-	10.635057	
10	3	19	74.5	1437	1218	11.02728	

Bin5 Statistics 19

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	14	79.8	1866	1822	1.024167	1
1	2	14	60.3	1184	-	1.323565	
2	3	14	77.6	1325	1745	3.256963	
3	2	14	56.3	1772	-	3.778192	
4	3	14	86.6	1073	1654	4.740066	
5	2	14	85.8	1578	-	6.430254	
6	2	14	83.1	1543	-	6.861837	
7	2	14	63.2	1000	-	7.715043	
8	3	14	51.2	1623	1388	8.810449	
9	2	14	85	1760	-	10.428788	
10	1	14	75	-	-	11.451405	

Bin5 Statistics 20

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	13	58.3	1411	1806	0.104866	1
1	3	13	81.7	1569	1993	1.186303	
2	1	13	86	-	-	2.099684	
3	3	13	79.3	1394	1789	3.301871	
4	3	13	51.5	1473	1888	3.939128	
5	1	13	54.2	-	-	4.306469	
6	2	13	73.5	1692	-	5.804823	
7	3	13	58.9	1188	1851	6.540969	
8	2	13	67.2	1219	-	7.545227	
9	2	13	78.5	1201	-	8.088476	
10	1	13	86.1	-	-	8.990053	
11	2	13	57.1	1762	-	10.119816	
12	2	13	91.7	1442	-	10.921495	
13	2	13	83.3	1348	-	11.700883	

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	7	72.6	1827	-	0.404463	1
1	1	7	79.1	-	-	0.832317	
2	1	7	91	-	-	1.512057	
3	1	7	69.4	-	-	2.299441	
4	2	7	82.8	1389	-	2.865053	
5	2	7	70.2	1576	-	3.433923	
6	2	7	82.5	1386	-	3.673427	
7	2	7	90.3	1247	-	4.612197	
8	2	7	83.8	1127	-	5.156436	
9	2	7	60.6	1299	-	5.648377	
10	2	7	89.9	1193	-	6.48683	
11	3	7	56.4	1258	1762	6.665294	
12	2	7	50.8	1788	-	7.236038	
13	2	7	93.5	1211	-	8.076914	
14	3	7	80.4	1976	1720	8.407248	
15	2	7	87.4	1056	-	9.46002	
16	2	7	50.9	1760	-	9.98283	
17	1	7	74	-	-	10.774037	
18	2	7	68.9	1303	-	11.282687	
19	2	7	64.8	1991	-	11.802323	

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	17	75	1498	-	0.697104	1
1	2	17	79	1942	-	1.823347	
2	3	17	73.2	1813	1158	3.37148	
3	2	17	85.8	1561	-	5.125367	
4	2	17	58.4	1784	-	6.02369	
5	2	17	54.5	1233	-	6.6681	
6	2	17	52.2	1334	-	8.133059	
7	1	17	91.5	-	-	9.426437	
8	1	17	55.7	-	-	11.058082	

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	14	66.5	1433	1897	0.569008	1
1	2	14	83	1674	-	1.137105	
2	3	14	85.8	1129	1649	1.723368	
3	2	14	81.1	1672	-	2.349247	
4	2	14	60.4	1766	-	3.08201	
5	3	14	89.8	1130	1962	4.271162	
6	1	14	65.2	-	-	5.165194	
7	2	14	95.7	1071	-	5.842981	
8	3	14	54.3	1343	1458	6.533216	
9	1	14	58	-	-	6.963295	
10	3	14	54	1340	1259	7.515728	
11	2	14	61.5	1444	-	8.560498	
12	2	14	99.7	1196	-	9.012937	
13	2	14	73.9	1017	-	9.918157	
14	2	14	88.1	1601	-	10.500463	
15	2	14	60	1447	-	11.596661	

Bin5 Statistics 24

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	12	53.5	1175	1108	0.553457	1
1	3	12	97.5	1667	1493	0.847584	
2	3	12	57.5	1811	1148	2.131231	
3	2	12	63.4	1317	-	3.007924	
4	3	12	62.6	1308	1092	3.613462	
5	1	12	93.6	-	-	4.044923	
6	2	12	90.7	1431	-	4.979882	
7	3	12	65	1789	1802	5.748925	
8	2	12	90.1	1068	-	7.176243	
9	1	12	73.8	-	-	7.880776	
10	3	12	98.6	1863	1844	8.312537	
11	2	12	95.3	1433	-	8.843782	
12	2	12	69.8	1949	-	10.284487	
13	3	12	81.9	1845	1288	10.409047	
14	2	12	83.8	1023	-	11.894486	

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	10	93.4	1958	-	0.728227	0
1	2	10	73.4	1872	-	0.969424	
2	2	10	76.5	1097	-	1.748035	
3	2	10	62.8	1820	-	3.080022	
4	3	10	51.9	1373	1320	3.293108	
5	3	10	50.9	1694	1314	4.271229	
6	2	10	91.6	1390	-	5.116789	
7	1	10	89.5	-	-	5.765235	
8	3	10	74.1	1013	1834	7.047523	
9	1	10	96.6	-	-	7.328319	
10	1	10	50.4	-	-	8.257974	
11	2	10	76.1	1753	-	9.274636	
12	2	10	86.5	1135	-	9.906912	
13	2	10	68.7	1040	-	11.09684	
14	2	10	57.9	1347	-	11.926503	

Bin5 Statistics 26

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	15	68.3	1338	1499	0.483902	1
1	1	15	87.3	-	-	0.944322	
2	2	15	54.3	1257	-	1.831086	
3	2	15	84.9	1873	-	2.455745	
4	1	15	80.2	-	-	3.665854	
5	3	15	88.6	1302	1360	4.45723	
6	1	15	53.4	-	-	5.211593	
7	3	15	70.3	1534	1547	5.669961	
8	2	15	60.2	1691	-	6.46045	
9	1	15	85.8	-	-	7.371299	
10	3	15	91.6	1564	1931	8.538536	
11	3	15	87.1	1374	1867	9.069828	
12	2	15	52.9	1196	-	10.273657	
13	2	15	95	1918	-	10.84577	
14	2	15	79.6	1683	-	11.626305	

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	19	89.7	-	-	0.225068	1
1	3	19	99.7	1061	1113	1.077043	
2	3	19	92.4	1300	1754	1.825344	
3	1	19	80.9	-	-	3.37108	
4	2	19	83.6	1732	-	3.444518	
5	1	19	72.6	-	-	4.740886	
6	1	19	66.5	-	-	5.816598	
7	2	19	76.5	1448	-	6.846779	
8	2	19	71.1	1086	-	7.664327	
9	1	19	63.3	-	-	7.779672	
10	2	19	82.9	1624	-	8.646414	
11	2	19	59.5	1437	-	10.273496	
12	2	19	91.7	1979	-	10.35422	
13	3	19	69.9	1821	1219	11.863894	

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	9	68.3	-	-	0.053243	0
1	2	9	62.8	1831	-	1.819963	
2	2	9	88	1184	-	3.562373	
3	3	9	85.3	1171	1752	4.504264	
4	2	9	99.3	1585	-	5.671078	
5	1	9	56.5	-	-	6.504588	
6	2	9	60.5	1343	-	7.900396	
7	3	9	98.1	1375	1493	9.179092	
8	2	9	63.2	1711	-	9.890036	
9	1	9	76.3	-	-	11.75389	

Bin5 Statistics 29

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	20	81.8	-	-	0.447214	
1	2	20	99.6	1287	-	1.264919	
2	3	20	93.2	1979	1757	1.456902	
3	3	20	74.9	1273	1829	2.146271	
4	1	20	84.3	-	-	2.972323	
5	1	20	57.1	-	-	3.845037	
6	1	20	52.7	-	-	4.705399	
7	2	20	85.2	1246	-	5.137982	
8	3	20	88.8	1798	1557	5.664382	1
9	1	20	89.2	-	-	6.822002	
10	3	20	80.5	1031	1110	7.653782	
11	1	20	52.7	-	-	8.124065	
12	2	20	79.5	1480	-	9.07901	
13	2	20	62.6	1207	-	9.258366	
14	2	20	75.1	1157	-	10.273544	
15	2	20	74.2	1386	-	10.787656	
16	2	20	66.8	1354	-	11.69234	

Bin5 Statistics 30

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	19	94.8	1759	-	0.226948	
1	2	19	91.3	1548	-	1.186971	
2	2	19	72.2	1888	-	2.083788	
3	1	19	61.5	-	-	2.797601	
4	3	19	95.7	1692	1749	3.968047	
5	3	19	66.8	1501	1825	4.793661	
6	2	19	91.7	1860	-	5.536272	
7	3	19	67.4	1077	1905	6.518868	1
8	3	19	78.8	1114	1262	7.32919	
9	2	19	60.4	1359	-	8.017589	
10	1	19	62.6	-	-	9.047807	
11	2	19	94.9	1635	-	9.563027	
12	3	19	59.3	1083	1547	10.333697	
13	1	19	78.8	-	-	11.635271	

Table-6 Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)	Hopping Sequence
1	5500	9	1	333	1	5428.0, 5651.0, 5471.0, 5488.0, 5622.0, 5696.0, 5427.0, 5429.0, 5265.0, 5560.0, 5616.0, 5279.0, 5526.0, 5415.0, 5330.0, 5476.0, 5411.0, 5378.0, 5396.0, 5531.0, 5448.0, 5544.0, 5572.0, 5485.0, 5306.0, 5656.0, 5711.0, 5602.0, 5280.0, 5421.0, 5352.0, 5506.0, 5270.0, 5290.0, 5433.0, 5391.0, 5425.0, 5379.0, 5514.0, 5394.0, 5283.0, 5668.0, 5697.0, 5457.0, 5460.0, 5507.0, 5337.0, 5347.0, 5250.0, 5664.0, 5324.0, 5301.0, 5348.0, 5585.0, 5623.0, 5580.0, 5642.0, 5634.0, 5556.0, 5351.0, 5671.0, 5381.0, 5648.0, 5387.0, 5320.0, 5472.0, 5414.0, 5458.0, 5698.0, 5692.0, 5361.0, 5703.0, 5520.0, 5373.0, 5502.0, 5523.0, 5541.0, 5550.0, 5400.0, 5278.0, 5335.0, 5552.0, 5599.0, 5607.0, 5303.0, 5591.0, 5346.0, 5459.0, 5329.0, 5719.0, 5322.0, 5349.0, 5568.0, 5296.0, 5444.0, 5300.0, 5646.0, 5635.0, 5505.0, 5722.0 (number of hits: 4)
2	5500	9	1	333	1	5361.0, 5437.0, 5675.0, 5592.0, 5362.0, 5337.0, 5698.0, 5476.0, 5304.0, 5410.0, 5618.0, 5519.0, 5544.0, 5577.0, 5294.0, 5289.0, 5385.0, 5624.0, 5318.0, 5498.0, 5635.0, 5275.0, 5623.0, 5383.0, 5521.0, 5691.0, 5673.0, 5370.0, 5460.0, 5680.0, 5452.0, 5670.0, 5382.0, 5711.0, 5441.0, 5600.0, 5502.0, 5306.0, 5261.0, 5466.0, 5542.0, 5253.0, 5468.0, 5580.0, 5417.0, 5598.0, 5703.0, 5359.0, 5639.0, 5312.0, 5490.0, 5588.0, 5481.0, 5283.0, 5259.0, 5568.0, 5503.0, 5345.0, 5668.0, 5495.0, 5395.0, 5506.0, 5561.0, 5367.0, 5292.0, 5702.0, 5267.0, 5581.0, 5268.0, 5718.0, 5479.0, 5402.0, 5510.0, 5599.0, 5375.0, 5411.0, 5552.0, 5696.0, 5669.0, 5651.0, 5694.0, 5478.0, 5586.0, 5432.0, 5313.0, 5401.0, 5391.0, 5678.0, 5589.0, 5416.0, 5641.0, 5649.0, 5518.0, 5674.0, 5701.0, 5405.0, 5487.0, 5494.0, 5473.0, 5320.0 (number of hits: 6)
3	5500	9	1	333	1	5415.0, 5360.0, 5580.0, 5314.0, 5549.0, 5589.0, 5461.0, 5401.0, 5344.0, 5371.0, 5540.0, 5468.0, 5359.0, 5485.0, 5519.0, 5455.0, 5483.0, 5720.0, 5559.0, 5326.0, 5719.0, 5397.0, 5381.0, 5547.0, 5715.0, 5349.0, 5398.0, 5426.0, 5492.0, 5435.0, 5388.0, 5529.0, 5471.0, 5657.0, 5448.0, 5410.0, 5438.0, 5701.0, 5524.0, 5310.0, 5269.0, 5423.0, 5602.0, 5417.0, 5581.0, 5390.0, 5373.0, 5413.0, 5329.0, 5347.0, 5528.0, 5496.0, 5680.0, 5621.0, 5604.0, 5561.0, 5706.0, 5474.0, 5257.0, 5632.0,

						5400.0, 5306.0, 5622.0, 5377.0, 5605.0, 5542.0, 5599.0, 5681.0, 5552.0, 5690.0, 5470.0, 5595.0, 5699.0, 5256.0, 5379.0, 5386.0, 5607.0, 5354.0, 5694.0, 5487.0, 5450.0, 5263.0, 5467.0, 5557.0, 5315.0, 5537.0, 5369.0, 5665.0, 5332.0, 5304.0, 5378.0, 5516.0, 5714.0, 5271.0, 5253.0, 5554.0, 5722.0, 5466.0, 5299.0, 5497.0 (number of hits: 3)
4	5500	9	1	333	1	5397.0, 5634.0, 5404.0, 5532.0, 5279.0, 5679.0, 5354.0, 5699.0, 5454.0, 5649.0, 5272.0, 5373.0, 5685.0, 5548.0, 5332.0, 5414.0, 5554.0, 5543.0, 5395.0, 5297.0, 5563.0, 5646.0, 5717.0, 5333.0, 5509.0, 5447.0, 5388.0, 5506.0, 5569.0, 5639.0, 5285.0, 5688.0, 5372.0, 5647.0, 5322.0, 5648.0, 5670.0, 5660.0, 5458.0, 5375.0, 5433.0, 5567.0, 5400.0, 5592.0, 5482.0, 5374.0, 5396.0, 5673.0, 5366.0, 5273.0, 5722.0, 5296.0, 5406.0, 5547.0, 5355.0, 5672.0, 5359.0, 5644.0, 5637.0, 5288.0, 5640.0, 5270.0, 5423.0, 5293.0, 5290.0, 5478.0, 5533.0, 5497.0, 5535.0, 5667.0, 5430.0, 5635.0, 5470.0, 5614.0, 5384.0, 5536.0, 5662.0, 5568.0, 5558.0, 5421.0, 5323.0, 5491.0, 5504.0, 5606.0, 5657.0, 5461.0, 5413.0, 5487.0, 5256.0, 5336.0, 5427.0, 5268.0, 5502.0, 5659.0, 5422.0, 5469.0, 5313.0, 5708.0, 5608.0, 5626.0 (number of hits: 5)
5	5500	9	1	333	1	5436.0, 5611.0, 5715.0, 5350.0, 5672.0, 5586.0, 5707.0, 5483.0, 5700.0, 5259.0, 5295.0, 5313.0, 5526.0, 5548.0, 5454.0, 5527.0, 5688.0, 5621.0, 5362.0, 5416.0, 5304.0, 5282.0, 5681.0, 5260.0, 5499.0, 5697.0, 5280.0, 5493.0, 5347.0, 5614.0, 5302.0, 5541.0, 5624.0, 5277.0, 5342.0, 5570.0, 5464.0, 5593.0, 5281.0, 5495.0, 5283.0, 5310.0, 5401.0, 5490.0, 5676.0, 5673.0, 5720.0, 5477.0, 5639.0, 5711.0, 5562.0, 5592.0, 5577.0, 5653.0, 5503.0, 5279.0, 5534.0, 5316.0, 5489.0, 5308.0, 5272.0, 5408.0, 5317.0, 5394.0, 5631.0, 5314.0, 5589.0, 5572.0, 5657.0, 5607.0, 5383.0, 5461.0, 5452.0, 5348.0, 5648.0, 5497.0, 5636.0, 5286.0, 5389.0, 5462.0, 5584.0, 5366.0, 5421.0, 5374.0, 5671.0, 5420.0, 5400.0, 5664.0, 5268.0, 5296.0, 5355.0, 5620.0, 5627.0, 5475.0, 5290.0, 5633.0, 5390.0, 5481.0, 5540.0, 5442.0 (number of hits: 5)
6	5500	9	1	333	1	5476.0, 5442.0, 5691.0, 5581.0, 5604.0, 5310.0, 5585.0, 5609.0, 5599.0, 5511.0, 5376.0, 5352.0, 5611.0, 5608.0, 5507.0, 5633.0, 5672.0, 5281.0, 5463.0, 5301.0, 5692.0, 5575.0, 5704.0, 5264.0, 5561.0, 5606.0, 5365.0, 5397.0, 5562.0, 5347.0, 5645.0, 5526.0, 5342.0, 5262.0, 5334.0, 5702.0, 5510.0, 5392.0, 5351.0, 5501.0, 5595.0, 5489.0, 5389.0, 5338.0, 5667.0,

						5683.0, 5256.0, 5596.0, 5631.0, 5475.0, 5471.0, 5282.0, 5369.0, 5250.0, 5344.0, 5477.0, 5706.0, 5443.0, 5488.0, 5577.0, 5698.0, 5431.0, 5323.0, 5440.0, 5527.0, 5451.0, 5266.0, 5375.0, 5579.0, 5453.0, 5679.0, 5388.0, 5464.0, 5372.0, 5470.0, 5341.0, 5565.0, 5566.0, 5630.0, 5636.0, 5404.0, 5467.0, 5659.0, 5391.0, 5493.0, 5538.0, 5632.0, 5311.0, 5638.0, 5498.0, 5426.0, 5616.0, 5304.0, 5420.0, 5277.0, 5444.0, 5720.0, 5697.0, 5327.0, 5678.0 (number of hits: 4)
7	5500	9	1	333	1	5705.0, 5328.0, 5281.0, 5424.0, 5287.0, 5403.0, 5606.0, 5399.0, 5265.0, 5389.0, 5416.0, 5372.0, 5655.0, 5549.0, 5440.0, 5401.0, 5676.0, 5329.0, 5432.0, 5430.0, 5596.0, 5409.0, 5719.0, 5567.0, 5508.0, 5694.0, 5568.0, 5565.0, 5530.0, 5639.0, 5302.0, 5558.0, 5618.0, 5360.0, 5662.0, 5378.0, 5418.0, 5380.0, 5283.0, 5317.0, 5483.0, 5261.0, 5617.0, 5298.0, 5670.0, 5277.0, 5373.0, 5711.0, 5347.0, 5286.0, 5367.0, 5678.0, 5569.0, 5496.0, 5297.0, 5406.0, 5698.0, 5475.0, 5557.0, 5262.0, 5344.0, 5608.0, 5481.0, 5664.0, 5468.0, 5448.0, 5713.0, 5715.0, 5300.0, 5539.0, 5581.0, 5547.0, 5477.0, 5396.0, 5634.0, 5488.0, 5478.0, 5428.0, 5349.0, 5545.0, 5610.0, 5521.0, 5445.0, 5354.0, 5268.0, 5337.0, 5342.0, 5361.0, 5498.0, 5550.0, 5605.0, 5562.0, 5722.0, 5717.0, 5471.0, 5526.0, 5672.0, 5648.0, 5495.0, 5528.0 (number of hits: 4)
8	5500	9	1	333	1	5709.0, 5670.0, 5327.0, 5500.0, 5259.0, 5448.0, 5413.0, 5591.0, 5306.0, 5292.0, 5525.0, 5508.0, 5310.0, 5474.0, 5478.0, 5662.0, 5582.0, 5473.0, 5495.0, 5665.0, 5651.0, 5656.0, 5523.0, 5685.0, 5331.0, 5661.0, 5332.0, 5707.0, 5298.0, 5675.0, 5477.0, 5271.0, 5423.0, 5475.0, 5468.0, 5679.0, 5456.0, 5597.0, 5265.0, 5360.0, 5326.0, 5526.0, 5392.0, 5724.0, 5252.0, 5516.0, 5307.0, 5536.0, 5529.0, 5653.0, 5450.0, 5637.0, 5299.0, 5458.0, 5553.0, 5599.0, 5571.0, 5385.0, 5274.0, 5513.0, 5535.0, 5629.0, 5419.0, 5594.0, 5275.0, 5696.0, 5362.0, 5304.0, 5461.0, 5312.0, 5308.0, 5699.0, 5300.0, 5374.0, 5483.0, 5676.0, 5356.0, 5335.0, 5646.0, 5524.0, 5266.0, 5457.0, 5616.0, 5700.0, 5706.0, 5618.0, 5547.0, 5277.0, 5465.0, 5587.0, 5551.0, 5437.0, 5264.0, 5267.0, 5469.0, 5663.0, 5721.0, 5319.0, 5717.0, 5398.0 (number of hits: 3)
9	5500	9	1	333	1	5391.0, 5278.0, 5461.0, 5370.0, 5512.0, 5404.0, 5585.0, 5296.0, 5401.0, 5589.0, 5464.0, 5570.0, 5385.0, 5681.0, 5577.0, 5568.0, 5303.0, 5669.0, 5548.0, 5454.0, 5429.0, 5365.0, 5531.0, 5479.0, 5567.0, 5580.0, 5276.0, 5257.0, 5489.0, 5444.0,

						5694.0, 5502.0, 5435.0, 5344.0, 5438.0, 5491.0, 5321.0, 5284.0, 5459.0, 5475.0, 5298.0, 5663.0, 5383.0, 5596.0, 5371.0, 5262.0, 5424.0, 5375.0, 5320.0, 5442.0, 5386.0, 5347.0, 5289.0, 5455.0, 5348.0, 5605.0, 5628.0, 5330.0, 5406.0, 5327.0, 5395.0, 5477.0, 5420.0, 5697.0, 5525.0, 5693.0, 5710.0, 5480.0, 5501.0, 5277.0, 5460.0, 5418.0, 5654.0, 5500.0, 5592.0, 5415.0, 5618.0, 5433.0, 5574.0, 5267.0, 5557.0, 5652.0, 5682.0, 5308.0, 5408.0, 5635.0, 5495.0, 5431.0, 5624.0, 5398.0, 5384.0, 5341.0, 5478.0, 5576.0, 5642.0, 5425.0, 5266.0, 5306.0, 5559.0, 5565.0 (number of hits: 5)
10	5500	9	1	333	1	5703.0, 5687.0, 5375.0, 5355.0, 5409.0, 5391.0, 5550.0, 5565.0, 5581.0, 5351.0, 5359.0, 5691.0, 5449.0, 5688.0, 5392.0, 5624.0, 5344.0, 5291.0, 5659.0, 5313.0, 5531.0, 5425.0, 5357.0, 5533.0, 5408.0, 5520.0, 5556.0, 5490.0, 5674.0, 5695.0, 5668.0, 5440.0, 5512.0, 5682.0, 5499.0, 5709.0, 5611.0, 5522.0, 5478.0, 5646.0, 5305.0, 5288.0, 5685.0, 5596.0, 5655.0, 5340.0, 5636.0, 5708.0, 5625.0, 5544.0, 5679.0, 5561.0, 5602.0, 5626.0, 5281.0, 5318.0, 5412.0, 5379.0, 5613.0, 5622.0, 5348.0, 5526.0, 5470.0, 5461.0, 5254.0, 5445.0, 5715.0, 5385.0, 5638.0, 5330.0, 5487.0, 5660.0, 5303.0, 5327.0, 5390.0, 5546.0, 5540.0, 5376.0, 5521.0, 5393.0, 5615.0, 5295.0, 5586.0, 5677.0, 5387.0, 5397.0, 5532.0, 5419.0, 5297.0, 5296.0, 5569.0, 5267.0, 5711.0, 5250.0, 5350.0, 5629.0, 5477.0, 5564.0, 5389.0, 5430.0 (number of hits: 1)
11	5500	9	1	333	1	5364.0, 5531.0, 5694.0, 5279.0, 5361.0, 5550.0, 5683.0, 5255.0, 5689.0, 5476.0, 5541.0, 5326.0, 5632.0, 5639.0, 5426.0, 5421.0, 5455.0, 5310.0, 5410.0, 5405.0, 5325.0, 5284.0, 5403.0, 5335.0, 5265.0, 5690.0, 5716.0, 5656.0, 5273.0, 5524.0, 5615.0, 5305.0, 5679.0, 5583.0, 5336.0, 5457.0, 5302.0, 5389.0, 5539.0, 5621.0, 5376.0, 5278.0, 5523.0, 5688.0, 5425.0, 5446.0, 5469.0, 5456.0, 5695.0, 5610.0, 5616.0, 5317.0, 5560.0, 5309.0, 5624.0, 5525.0, 5486.0, 5263.0, 5536.0, 5418.0, 5479.0, 5400.0, 5413.0, 5627.0, 5700.0, 5708.0, 5408.0, 5398.0, 5349.0, 5515.0, 5643.0, 5494.0, 5395.0, 5709.0, 5286.0, 5440.0, 5262.0, 5419.0, 5412.0, 5613.0, 5578.0, 5468.0, 5340.0, 5370.0, 5359.0, 5375.0, 5597.0, 5307.0, 5386.0, 5319.0, 5665.0, 5596.0, 5533.0, 5561.0, 5393.0, 5674.0, 5439.0, 5553.0, 5293.0, 5365.0 (number of hits: 1)
12	5500	9	1	333	1	5672.0, 5409.0, 5294.0, 5678.0, 5702.0, 5412.0, 5473.0, 5662.0, 5255.0, 5653.0, 5507.0, 5566.0, 5351.0, 5692.0, 5681.0,

						5423.0, 5404.0, 5536.0, 5420.0, 5318.0, 5319.0, 5297.0, 5635.0, 5457.0, 5263.0, 5466.0, 5673.0, 5615.0, 5698.0, 5340.0, 5341.0, 5380.0, 5282.0, 5424.0, 5565.0, 5599.0, 5703.0, 5499.0, 5604.0, 5446.0, 5364.0, 5472.0, 5690.0, 5705.0, 5348.0, 5528.0, 5368.0, 5526.0, 5542.0, 5432.0, 5449.0, 5335.0, 5300.0, 5519.0, 5400.0, 5460.0, 5674.0, 5493.0, 5568.0, 5366.0, 5641.0, 5308.0, 5709.0, 5670.0, 5434.0, 5639.0, 5693.0, 5700.0, 5648.0, 5470.0, 5465.0, 5419.0, 5458.0, 5525.0, 5503.0, 5520.0, 5514.0, 5724.0, 5711.0, 5324.0, 5261.0, 5302.0, 5303.0, 5441.0, 5608.0, 5588.0, 5666.0, 5292.0, 5478.0, 5474.0, 5428.0, 5289.0, 5276.0, 5614.0, 5612.0, 5489.0, 5682.0, 5655.0, 5556.0, 5593.0 (number of hits: 4)
13	5500	9	1	333	1	5688.0, 5398.0, 5412.0, 5614.0, 5399.0, 5466.0, 5657.0, 5718.0, 5700.0, 5261.0, 5270.0, 5616.0, 5448.0, 5691.0, 5317.0, 5332.0, 5690.0, 5547.0, 5580.0, 5543.0, 5706.0, 5326.0, 5302.0, 5642.0, 5519.0, 5528.0, 5689.0, 5427.0, 5287.0, 5704.0, 5663.0, 5400.0, 5320.0, 5253.0, 5262.0, 5709.0, 5530.0, 5633.0, 5252.0, 5417.0, 5549.0, 5366.0, 5424.0, 5423.0, 5380.0, 5609.0, 5600.0, 5365.0, 5513.0, 5532.0, 5475.0, 5596.0, 5375.0, 5353.0, 5552.0, 5259.0, 5612.0, 5341.0, 5329.0, 5522.0, 5282.0, 5482.0, 5506.0, 5523.0, 5420.0, 5385.0, 5488.0, 5331.0, 5679.0, 5717.0, 5308.0, 5381.0, 5433.0, 5698.0, 5328.0, 5649.0, 5536.0, 5376.0, 5606.0, 5358.0, 5651.0, 5708.0, 5339.0, 5257.0, 5394.0, 5589.0, 5601.0, 5372.0, 5274.0, 5510.0, 5301.0, 5669.0, 5286.0, 5269.0, 5554.0, 5272.0, 5507.0, 5334.0, 5473.0, 5298.0 (number of hits: 2)
14	5500	9	1	333	1	5272.0, 5617.0, 5516.0, 5290.0, 5358.0, 5632.0, 5414.0, 5520.0, 5616.0, 5305.0, 5470.0, 5671.0, 5689.0, 5673.0, 5702.0, 5340.0, 5425.0, 5629.0, 5514.0, 5489.0, 5554.0, 5298.0, 5405.0, 5555.0, 5253.0, 5478.0, 5608.0, 5295.0, 5282.0, 5622.0, 5663.0, 5662.0, 5397.0, 5398.0, 5328.0, 5440.0, 5459.0, 5302.0, 5271.0, 5543.0, 5297.0, 5291.0, 5594.0, 5343.0, 5524.0, 5579.0, 5373.0, 5466.0, 5717.0, 5420.0, 5300.0, 5336.0, 5375.0, 5369.0, 5610.0, 5668.0, 5694.0, 5277.0, 5399.0, 5378.0, 5463.0, 5600.0, 5348.0, 5416.0, 5384.0, 5697.0, 5675.0, 5363.0, 5638.0, 5263.0, 5537.0, 5657.0, 5432.0, 5521.0, 5598.0, 5439.0, 5372.0, 5528.0, 5310.0, 5504.0, 5680.0, 5716.0, 5718.0, 5391.0, 5695.0, 5505.0, 5609.0, 5469.0, 5715.0, 5605.0, 5410.0, 5676.0, 5678.0, 5404.0, 5627.0, 5701.0, 5387.0, 5415.0, 5700.0, 5345.0 (number of hits: 2)

15	5500	9	1	333	1	5378.0, 5404.0, 5403.0, 5421.0, 5252.0, 5350.0, 5689.0, 5528.0, 5486.0, 5566.0, 5648.0, 5290.0, 5398.0, 5353.0, 5419.0, 5685.0, 5649.0, 5474.0, 5255.0, 5539.0, 5628.0, 5323.0, 5603.0, 5298.0, 5282.0, 5320.0, 5703.0, 5335.0, 5392.0, 5594.0, 5340.0, 5611.0, 5610.0, 5484.0, 5558.0, 5642.0, 5572.0, 5374.0, 5607.0, 5481.0, 5490.0, 5428.0, 5545.0, 5384.0, 5593.0, 5279.0, 5308.0, 5662.0, 5396.0, 5256.0, 5473.0, 5344.0, 5270.0, 5479.0, 5377.0, 5448.0, 5443.0, 5571.0, 5540.0, 5287.0, 5694.0, 5502.0, 5391.0, 5663.0, 5652.0, 5312.0, 5495.0, 5664.0, 5334.0, 5636.0, 5585.0, 5449.0, 5596.0, 5683.0, 5530.0, 5563.0, 5453.0, 5251.0, 5672.0, 5543.0, 5524.0, 5482.0, 5503.0, 5600.0, 5660.0, 5669.0, 5609.0, 5420.0, 5511.0, 5257.0, 5390.0, 5349.0, 5444.0, 5675.0, 5514.0, 5668.0, 5316.0, 5605.0, 5536.0, 5598.0 (number of hits: 3)
16	5500	9	1	333	1	5368.0, 5706.0, 5540.0, 5523.0, 5438.0, 5393.0, 5394.0, 5363.0, 5620.0, 5379.0, 5500.0, 5494.0, 5387.0, 5262.0, 5251.0, 5380.0, 5282.0, 5477.0, 5684.0, 5674.0, 5534.0, 5581.0, 5518.0, 5340.0, 5348.0, 5400.0, 5503.0, 5686.0, 5328.0, 5714.0, 5317.0, 5628.0, 5568.0, 5255.0, 5609.0, 5616.0, 5429.0, 5573.0, 5707.0, 5551.0, 5700.0, 5702.0, 5460.0, 5386.0, 5268.0, 5465.0, 5479.0, 5499.0, 5668.0, 5390.0, 5557.0, 5323.0, 5598.0, 5666.0, 5287.0, 5561.0, 5658.0, 5572.0, 5608.0, 5407.0, 5357.0, 5389.0, 5354.0, 5367.0, 5269.0, 5295.0, 5257.0, 5610.0, 5582.0, 5596.0, 5516.0, 5505.0, 5641.0, 5277.0, 5612.0, 5478.0, 5591.0, 5469.0, 5657.0, 5402.0, 5424.0, 5476.0, 5258.0, 5372.0, 5662.0, 5559.0, 5513.0, 5676.0, 5327.0, 5461.0, 5304.0, 5683.0, 5694.0, 5435.0, 5397.0, 5342.0, 5443.0, 5360.0, 5652.0, 5692.0 (number of hits: 5)
17	5500	9	1	333	1	5495.0, 5381.0, 5331.0, 5523.0, 5514.0, 5617.0, 5340.0, 5688.0, 5666.0, 5715.0, 5594.0, 5591.0, 5371.0, 5277.0, 5333.0, 5669.0, 5403.0, 5648.0, 5373.0, 5324.0, 5303.0, 5710.0, 5481.0, 5445.0, 5653.0, 5416.0, 5488.0, 5473.0, 5621.0, 5266.0, 5268.0, 5516.0, 5619.0, 5711.0, 5385.0, 5620.0, 5419.0, 5345.0, 5628.0, 5364.0, 5256.0, 5450.0, 5679.0, 5307.0, 5480.0, 5369.0, 5430.0, 5549.0, 5286.0, 5254.0, 5365.0, 5391.0, 5426.0, 5283.0, 5351.0, 5545.0, 5411.0, 5519.0, 5358.0, 5296.0, 5442.0, 5402.0, 5681.0, 5479.0, 5560.0, 5501.0, 5568.0, 5521.0, 5317.0, 5337.0, 5489.0, 5558.0, 5507.0, 5623.0, 5338.0, 5472.0, 5674.0, 5418.0, 5645.0, 5577.0, 5304.0, 5695.0, 5530.0, 5366.0, 5392.0, 5390.0, 5675.0, 5556.0, 5471.0, 5417.0, 5428.0, 5676.0, 5462.0, 5496.0, 5327.0,

						5540.0, 5459.0, 5585.0, 5396.0, 5397.0 (number of hits: 4)
18	5500	9	1	333	1	5268.0, 5475.0, 5467.0, 5538.0, 5580.0, 5562.0, 5550.0, 5553.0, 5708.0, 5426.0, 5566.0, 5698.0, 5380.0, 5272.0, 5673.0, 5665.0, 5294.0, 5333.0, 5378.0, 5565.0, 5395.0, 5612.0, 5647.0, 5369.0, 5723.0, 5564.0, 5520.0, 5607.0, 5329.0, 5465.0, 5662.0, 5632.0, 5335.0, 5263.0, 5413.0, 5543.0, 5601.0, 5492.0, 5344.0, 5484.0, 5479.0, 5321.0, 5478.0, 5510.0, 5309.0, 5611.0, 5442.0, 5597.0, 5310.0, 5381.0, 5545.0, 5418.0, 5446.0, 5255.0, 5336.0, 5595.0, 5297.0, 5593.0, 5326.0, 5495.0, 5552.0, 5596.0, 5415.0, 5605.0, 5623.0, 5713.0, 5430.0, 5590.0, 5603.0, 5588.0, 5359.0, 5316.0, 5631.0, 5280.0, 5703.0, 5360.0, 5489.0, 5688.0, 5317.0, 5666.0, 5551.0, 5357.0, 5689.0, 5695.0, 5445.0, 5609.0, 5277.0, 5349.0, 5385.0, 5499.0, 5462.0, 5646.0, 5581.0, 5251.0, 5301.0, 5706.0, 5338.0, 5398.0, 5270.0, 5460.0 (number of hits: 3)
19	5500	9	1	333	1	5494.0, 5272.0, 5286.0, 5457.0, 5402.0, 5380.0, 5598.0, 5684.0, 5406.0, 5514.0, 5691.0, 5328.0, 5611.0, 5327.0, 5285.0, 5705.0, 5717.0, 5555.0, 5491.0, 5548.0, 5669.0, 5546.0, 5670.0, 5621.0, 5497.0, 5627.0, 5630.0, 5255.0, 5650.0, 5445.0, 5364.0, 5719.0, 5619.0, 5477.0, 5625.0, 5401.0, 5415.0, 5706.0, 5347.0, 5382.0, 5431.0, 5645.0, 5337.0, 5522.0, 5464.0, 5639.0, 5421.0, 5689.0, 5254.0, 5440.0, 5618.0, 5666.0, 5268.0, 5442.0, 5263.0, 5392.0, 5350.0, 5560.0, 5718.0, 5334.0, 5299.0, 5311.0, 5375.0, 5715.0, 5473.0, 5288.0, 5561.0, 5346.0, 5667.0, 5640.0, 5574.0, 5379.0, 5523.0, 5566.0, 5408.0, 5478.0, 5417.0, 5572.0, 5271.0, 5595.0, 5269.0, 5304.0, 5702.0, 5463.0, 5329.0, 5280.0, 5259.0, 5553.0, 5430.0, 5505.0, 5589.0, 5571.0, 5569.0, 5372.0, 5693.0, 5298.0, 5501.0, 5605.0, 5579.0, 5492.0 (number of hits: 6)
20	5500	9	1	333	1	5309.0, 5413.0, 5521.0, 5495.0, 5442.0, 5362.0, 5560.0, 5391.0, 5667.0, 5536.0, 5537.0, 5312.0, 5408.0, 5653.0, 5590.0, 5706.0, 5697.0, 5601.0, 5676.0, 5621.0, 5302.0, 5716.0, 5462.0, 5325.0, 5564.0, 5267.0, 5518.0, 5307.0, 5264.0, 5311.0, 5529.0, 5551.0, 5642.0, 5262.0, 5454.0, 5675.0, 5643.0, 5513.0, 5286.0, 5519.0, 5589.0, 5254.0, 5253.0, 5500.0, 5365.0, 5501.0, 5337.0, 5708.0, 5705.0, 5635.0, 5276.0, 5556.0, 5506.0, 5610.0, 5364.0, 5654.0, 5655.0, 5622.0, 5460.0, 5310.0, 5471.0, 5526.0, 5618.0, 5251.0, 5505.0, 5259.0, 5694.0, 5598.0, 5545.0, 5340.0, 5699.0, 5628.0, 5488.0, 5326.0, 5348.0, 5524.0, 5570.0, 5422.0, 5358.0, 5568.0,

						5350.0, 5458.0, 5260.0, 5623.0, 5644.0, 5423.0, 5581.0, 5396.0, 5377.0, 5483.0, 5707.0, 5510.0, 5583.0, 5490.0, 5268.0, 5555.0, 5491.0, 5579.0, 5559.0, 5658.0 (number of hits: 6)
21	5500	9	1	333	1	5529.0, 5499.0, 5564.0, 5282.0, 5373.0, 5601.0, 5659.0, 5677.0, 5636.0, 5626.0, 5498.0, 5414.0, 5462.0, 5371.0, 5262.0, 5481.0, 5341.0, 5307.0, 5637.0, 5303.0, 5653.0, 5382.0, 5388.0, 5587.0, 5711.0, 5406.0, 5344.0, 5378.0, 5398.0, 5360.0, 5350.0, 5486.0, 5703.0, 5650.0, 5459.0, 5268.0, 5717.0, 5374.0, 5483.0, 5424.0, 5365.0, 5461.0, 5416.0, 5680.0, 5405.0, 5697.0, 5651.0, 5358.0, 5332.0, 5364.0, 5683.0, 5300.0, 5402.0, 5616.0, 5329.0, 5509.0, 5265.0, 5389.0, 5542.0, 5521.0, 5333.0, 5434.0, 5488.0, 5431.0, 5558.0, 5602.0, 5699.0, 5507.0, 5324.0, 5670.0, 5582.0, 5688.0, 5441.0, 5543.0, 5654.0, 5293.0, 5622.0, 5348.0, 5267.0, 5609.0, 5671.0, 5722.0, 5291.0, 5535.0, 5366.0, 5516.0, 5652.0, 5489.0, 5264.0, 5273.0, 5524.0, 5502.0, 5639.0, 5420.0, 5584.0, 5657.0, 5691.0, 5676.0, 5463.0, 5600.0 (number of hits: 4)
22	5500	9	1	333	1	5573.0, 5338.0, 5481.0, 5436.0, 5564.0, 5283.0, 5329.0, 5390.0, 5635.0, 5252.0, 5539.0, 5709.0, 5538.0, 5351.0, 5606.0, 5721.0, 5298.0, 5452.0, 5556.0, 5598.0, 5348.0, 5718.0, 5289.0, 5501.0, 5419.0, 5555.0, 5670.0, 5319.0, 5281.0, 5341.0, 5443.0, 5628.0, 5544.0, 5368.0, 5285.0, 5392.0, 5609.0, 5684.0, 5659.0, 5589.0, 5467.0, 5591.0, 5369.0, 5430.0, 5346.0, 5408.0, 5553.0, 5313.0, 5615.0, 5647.0, 5449.0, 5311.0, 5326.0, 5699.0, 5593.0, 5722.0, 5708.0, 5695.0, 5308.0, 5572.0, 5582.0, 5495.0, 5450.0, 5508.0, 5294.0, 5650.0, 5466.0, 5446.0, 5363.0, 5703.0, 5632.0, 5270.0, 5291.0, 5426.0, 5607.0, 5349.0, 5509.0, 5532.0, 5312.0, 5448.0, 5447.0, 5397.0, 5596.0, 5638.0, 5578.0, 5597.0, 5723.0, 5631.0, 5523.0, 5479.0, 5411.0, 5367.0, 5668.0, 5414.0, 5437.0, 5549.0, 5357.0, 5295.0, 5440.0, 5652.0 (number of hits: 3)
23	5500	9	1	333	0	-
24	5500	9	1	333	1	5623.0, 5441.0, 5618.0, 5321.0, 5682.0, 5716.0, 5575.0, 5542.0, 5530.0, 5506.0, 5341.0, 5663.0, 5650.0, 5325.0, 5638.0, 5612.0, 5564.0, 5295.0, 5422.0, 5388.0, 5368.0, 5429.0, 5662.0, 5626.0, 5352.0, 5250.0, 5387.0, 5697.0, 5487.0, 5514.0, 5371.0, 5516.0, 5601.0, 5270.0, 5604.0, 5324.0, 5456.0, 5628.0, 5526.0, 5507.0, 5460.0, 5455.0, 5335.0, 5535.0, 5578.0, 5300.0, 5653.0, 5397.0, 5561.0, 5577.0, 5414.0, 5486.0, 5447.0, 5687.0, 5562.0, 5534.0, 5404.0, 5451.0, 5285.0, 5625.0,

						5608.0, 5440.0, 5311.0, 5454.0, 5288.0, 5659.0, 5471.0, 5689.0, 5508.0, 5510.0, 5629.0, 5654.0, 5291.0, 5378.0, 5462.0, 5713.0, 5528.0, 5667.0, 5539.0, 5492.0, 5517.0, 5420.0, 5280.0, 5390.0, 5263.0, 5430.0, 5362.0, 5533.0, 5484.0, 5381.0, 5617.0, 5631.0, 5520.0, 5342.0, 5641.0, 5382.0, 5522.0, 5683.0, 5679.0, 5491.0 (number of hits: 5)
25	5500	9	1	333	1	5487.0, 5595.0, 5719.0, 5549.0, 5387.0, 5614.0, 5473.0, 5396.0, 5445.0, 5299.0, 5563.0, 5375.0, 5481.0, 5711.0, 5616.0, 5589.0, 5394.0, 5502.0, 5577.0, 5673.0, 5358.0, 5699.0, 5721.0, 5530.0, 5296.0, 5559.0, 5631.0, 5456.0, 5540.0, 5386.0, 5351.0, 5585.0, 5283.0, 5607.0, 5658.0, 5323.0, 5426.0, 5382.0, 5553.0, 5289.0, 5390.0, 5453.0, 5263.0, 5400.0, 5613.0, 5665.0, 5413.0, 5521.0, 5470.0, 5444.0, 5693.0, 5703.0, 5575.0, 5365.0, 5280.0, 5274.0, 5389.0, 5475.0, 5640.0, 5423.0, 5603.0, 5484.0, 5516.0, 5670.0, 5330.0, 5568.0, 5565.0, 5617.0, 5337.0, 5339.0, 5705.0, 5450.0, 5544.0, 5505.0, 5354.0, 5458.0, 5275.0, 5634.0, 5480.0, 5442.0, 5710.0, 5377.0, 5677.0, 5381.0, 5576.0, 5528.0, 5644.0, 5664.0, 5425.0, 5384.0, 5392.0, 5529.0, 5292.0, 5302.0, 5511.0, 5637.0, 5447.0, 5713.0, 5371.0, 5504.0 (number of hits: 3)
26	5500	9	1	333	1	5511.0, 5331.0, 5626.0, 5552.0, 5483.0, 5650.0, 5508.0, 5519.0, 5564.0, 5591.0, 5550.0, 5255.0, 5334.0, 5710.0, 5444.0, 5279.0, 5547.0, 5450.0, 5573.0, 5309.0, 5605.0, 5337.0, 5487.0, 5282.0, 5375.0, 5709.0, 5533.0, 5437.0, 5469.0, 5549.0, 5269.0, 5396.0, 5594.0, 5521.0, 5326.0, 5520.0, 5384.0, 5473.0, 5361.0, 5350.0, 5478.0, 5357.0, 5429.0, 5658.0, 5417.0, 5449.0, 5324.0, 5674.0, 5456.0, 5651.0, 5683.0, 5389.0, 5687.0, 5611.0, 5472.0, 5661.0, 5553.0, 5505.0, 5323.0, 5352.0, 5283.0, 5501.0, 5457.0, 5253.0, 5543.0, 5705.0, 5333.0, 5301.0, 5406.0, 5434.0, 5531.0, 5509.0, 5722.0, 5379.0, 5460.0, 5616.0, 5602.0, 5415.0, 5317.0, 5518.0, 5436.0, 5442.0, 5712.0, 5329.0, 5335.0, 5654.0, 5374.0, 5525.0, 5252.0, 5554.0, 5278.0, 5572.0, 5653.0, 5599.0, 5419.0, 5532.0, 5468.0, 5673.0, 5524.0, 5295.0 (number of hits: 3)
27	5500	9	1	333	1	5337.0, 5598.0, 5666.0, 5664.0, 5361.0, 5707.0, 5570.0, 5455.0, 5317.0, 5445.0, 5583.0, 5359.0, 5316.0, 5399.0, 5524.0, 5652.0, 5653.0, 5498.0, 5574.0, 5689.0, 5696.0, 5390.0, 5614.0, 5717.0, 5561.0, 5492.0, 5485.0, 5360.0, 5620.0, 5310.0, 5344.0, 5438.0, 5510.0, 5314.0, 5459.0, 5444.0, 5509.0, 5291.0, 5511.0, 5590.0, 5489.0, 5302.0, 5638.0, 5625.0, 5469.0,

						5667.0, 5374.0, 5328.0, 5466.0, 5665.0, 5315.0, 5686.0, 5276.0, 5327.0, 5279.0, 5602.0, 5516.0, 5427.0, 5529.0, 5424.0, 5262.0, 5705.0, 5365.0, 5467.0, 5413.0, 5690.0, 5391.0, 5356.0, 5688.0, 5674.0, 5504.0, 5550.0, 5355.0, 5678.0, 5488.0, 5480.0, 5297.0, 5555.0, 5716.0, 5395.0, 5507.0, 5442.0, 5554.0, 5599.0, 5703.0, 5326.0, 5613.0, 5309.0, 5533.0, 5636.0, 5693.0, 5264.0, 5518.0, 5687.0, 5721.0, 5440.0, 5671.0, 5436.0, 5618.0, 5601.0 (number of hits: 4)
28	5500	9	1	333	1	5506.0, 5310.0, 5508.0, 5531.0, 5493.0, 5350.0, 5613.0, 5723.0, 5427.0, 5538.0, 5525.0, 5509.0, 5357.0, 5704.0, 5340.0, 5263.0, 5617.0, 5582.0, 5442.0, 5602.0, 5724.0, 5321.0, 5373.0, 5329.0, 5486.0, 5549.0, 5375.0, 5441.0, 5346.0, 5383.0, 5339.0, 5684.0, 5405.0, 5584.0, 5692.0, 5630.0, 5391.0, 5705.0, 5546.0, 5325.0, 5448.0, 5436.0, 5540.0, 5657.0, 5293.0, 5494.0, 5611.0, 5717.0, 5450.0, 5713.0, 5597.0, 5578.0, 5463.0, 5379.0, 5667.0, 5522.0, 5397.0, 5270.0, 5507.0, 5683.0, 5665.0, 5283.0, 5672.0, 5530.0, 5344.0, 5636.0, 5712.0, 5648.0, 5517.0, 5706.0, 5298.0, 5422.0, 5583.0, 5268.0, 5398.0, 5424.0, 5601.0, 5479.0, 5663.0, 5577.0, 5252.0, 5501.0, 5638.0, 5372.0, 5400.0, 5502.0, 5722.0, 5539.0, 5418.0, 5595.0, 5437.0, 5696.0, 5574.0, 5588.0, 5384.0, 5543.0, 5647.0, 5618.0, 5562.0, 5621.0 (number of hits: 7)
29	5500	9	1	333	1	5530.0, 5307.0, 5254.0, 5421.0, 5627.0, 5459.0, 5329.0, 5624.0, 5316.0, 5644.0, 5323.0, 5263.0, 5353.0, 5539.0, 5310.0, 5299.0, 5399.0, 5626.0, 5281.0, 5383.0, 5612.0, 5646.0, 5305.0, 5574.0, 5426.0, 5451.0, 5472.0, 5716.0, 5388.0, 5708.0, 5501.0, 5470.0, 5354.0, 5372.0, 5549.0, 5603.0, 5486.0, 5677.0, 5623.0, 5607.0, 5576.0, 5403.0, 5351.0, 5658.0, 5717.0, 5496.0, 5605.0, 5701.0, 5256.0, 5712.0, 5293.0, 5707.0, 5463.0, 5593.0, 5291.0, 5474.0, 5643.0, 5386.0, 5418.0, 5510.0, 5561.0, 5673.0, 5332.0, 5297.0, 5679.0, 5551.0, 5267.0, 5573.0, 5345.0, 5296.0, 5447.0, 5454.0, 5461.0, 5631.0, 5548.0, 5330.0, 5698.0, 5519.0, 5533.0, 5715.0, 5686.0, 5559.0, 5578.0, 5287.0, 5258.0, 5508.0, 5704.0, 5632.0, 5429.0, 5342.0, 5524.0, 5565.0, 5432.0, 5563.0, 5628.0, 5500.0, 5411.0, 5516.0, 5444.0, 5590.0 (number of hits: 4)
30	5500	9	1	333	1	5435.0, 5584.0, 5700.0, 5276.0, 5462.0, 5694.0, 5458.0, 5343.0, 5596.0, 5512.0, 5712.0, 5395.0, 5666.0, 5498.0, 5543.0, 5313.0, 5643.0, 5299.0, 5412.0, 5576.0, 5551.0, 5332.0, 5432.0, 5629.0, 5320.0, 5422.0, 5570.0, 5296.0, 5302.0, 5714.0,

						5311.0, 5333.0, 5327.0, 5264.0, 5577.0, 5252.0, 5374.0, 5489.0, 5403.0, 5325.0, 5392.0, 5400.0, 5706.0, 5686.0, 5677.0, 5556.0, 5668.0, 5565.0, 5672.0, 5451.0, 5477.0, 5388.0, 5401.0, 5585.0, 5591.0, 5452.0, 5314.0, 5322.0, 5441.0, 5258.0, 5600.0, 5379.0, 5419.0, 5673.0, 5654.0, 5317.0, 5372.0, 5345.0, 5457.0, 5721.0, 5352.0, 5586.0, 5628.0, 5559.0, 5493.0, 5542.0, 5647.0, 5707.0, 5497.0, 5580.0, 5484.0, 5286.0, 5500.0, 5405.0, 5501.0, 5507.0, 5588.0, 5545.0, 5328.0, 5437.0, 5292.0, 5539.0, 5397.0, 5348.0, 5294.0, 5402.0, 5310.0, 5690.0, 5344.0, 5649.0 (number of hits: 6)

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	96.7 %	60%	Pass
Type 3	30	86.7 %	60%	Pass
Type 4	30	83.3 %	60%	Pass
Aggregate (Type1 to 4)	120	91.7 %	80%	Pass
Type 5	30	86.7 %	80%	Pass
Type 6	30	100 %	70%	Pass

Please refer to the following statistical tables:

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

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5510	74	1	718	1
2	5510	72	1	738	1
3	5510	61	1	878	1
4	5510	86	1	618	1
5	5510	57	1	938	1
6	5492	81	1	658	1
7	5492	67	1	798	1
8	5492	83	1	638	1
9	5492	92	1	578	1
10	5492	76	1	698	1
11	5528	59	1	898	1
12	5528	70	1	758	1
13	5528	63	1	838	1
14	5528	62	1	858	1
15	5528	102	1	518	1
16	5510	28	1	1915	1
17	5510	23	1	2381	1
18	5510	101	1	526	1
19	5510	85	1	625	1
20	5510	51	1	1052	1
21	5492	20	1	2770	1
22	5492	21	1	2549	1
23	5492	51	1	1047	1
24	5492	31	1	1719	1
25	5492	28	1	1894	1
26	5528	25	1	2188	1
27	5528	19	1	2869	1
28	5528	89	1	596	1
29	5528	60	1	882	1
30	5528	20	1	2742	1
Detection Percentage: 100 % (>60%)					

Table-2 Radar Type 2 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5510	27	1.8	188	1
2	5510	24	1	201	1
3	5510	27	4.8	215	1
4	5510	28	4.5	201	1
5	5510	28	1.2	222	0
6	5510	25	1.7	162	1
7	5510	26	1.6	164	1
8	5510	24	4.9	191	1
9	5510	26	1	200	1
10	5510	25	3.5	218	1
11	5492	26	1.8	186	1
12	5492	29	2.3	230	1
13	5492	23	1.2	211	1
14	5492	29	3.4	213	1
15	5492	25	2.7	195	1
16	5492	25	3.8	176	1
17	5492	24	2.2	171	1
18	5492	23	2.5	219	1
19	5492	27	2.6	171	1
20	5492	28	3.8	229	1
21	5528	29	4.1	168	1
22	5528	26	3	170	1
23	5528	28	4.7	228	1
24	5528	25	4.3	202	1
25	5528	28	3.4	229	1
26	5528	24	1.9	157	1
27	5528	28	3.4	193	1
28	5528	29	4.5	168	1
29	5528	27	3.8	172	1
30	5528	25	4.9	192	1
Detection Percentage: 96.7 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5510	18	9	495	1
2	5510	16	9.1	488	1
3	5510	18	6.8	434	1
4	5510	18	8.2	264	0
5	5510	16	9.3	376	1
6	5510	16	9.6	289	1
7	5510	17	7.9	380	1
8	5510	16	8	488	1
9	5510	17	9.2	288	1
10	5510	16	7.7	417	1
11	5492	16	8.1	206	1
12	5492	16	7.6	311	1
13	5492	17	7.5	463	1
14	5492	17	8.3	226	1
15	5492	18	8.4	295	1
16	5492	16	7.7	390	1
17	5492	17	9.3	474	1
18	5492	18	7.6	202	1
19	5492	16	7.9	448	1
20	5492	18	7.3	347	1
21	5528	18	10	391	1
22	5528	18	6.4	355	1
23	5528	16	8.9	225	1
24	5528	16	8.2	378	0
25	5528	17	6.6	396	1
26	5528	18	6.1	276	1
27	5528	18	8.1	455	1
28	5528	17	6.8	358	0
29	5528	17	8.8	289	0
30	5528	17	7.7	425	1
Detection Percentage: 86.7 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5510	15	15.4	384	1
2	5510	16	20	343	0
3	5510	12	12.6	436	1
4	5510	14	16.3	354	1
5	5510	15	13.3	386	1
6	5510	13	18.3	421	1
7	5510	12	14.1	217	1
8	5510	12	20	315	1
9	5510	12	15.3	206	0
10	5510	13	16.2	449	1
11	5492	12	16.3	366	1
12	5492	15	19.7	428	1
13	5492	12	13.7	294	0
14	5492	14	17.9	425	1
15	5492	13	15.1	354	1
16	5492	13	19	329	1
17	5492	15	16	283	0
18	5492	16	18.5	405	1
19	5492	14	18.3	354	1
20	5492	16	14.9	202	1
21	5528	15	19.6	274	1
22	5528	15	16.6	215	1
23	5528	13	16.9	462	1
24	5528	15	15.6	484	1
25	5528	12	12.5	283	0
26	5528	14	16.8	388	1
27	5528	12	14.1	361	1
28	5528	14	14.2	296	1
29	5528	15	13.4	388	1
30	5528	13	19.8	401	1
Detection Percentage: 83.3 % (>60%)					

Table-5 Radar Type 5 Statistical Performance

Trial #	Fc (MHz)	Detection (1:yes; 0:no)
1	5510	1
2	5510	1
3	5510	1
4	5510	0
5	5510	1
6	5510	0
7	5510	1
8	5510	1
9	5510	0
10	5510	1
11	5497.5	1
12	5494.3	1
13	5494.4	1
14	5496.3	1
15	5494.7	1
16	5498.3	1
17	5494.3	0
18	5495.9	1
19	5496.7	1
20	5494.7	1
21	5522.5	1
22	5520.5	1
23	5521.7	1
24	5522.5	1
25	5523.3	1
26	5526.5	1
27	5520.9	1
28	5522.1	1
29	5523.3	1
30	5521.3	1
Detection Percentage: 86.7 % (>80%)		

Bin5 Statistics 1

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	10	67.7	1495	1247	0.603418	1
1	3	10	54	1740	1401	1.201758	
2	2	10	68	1868	-	1.985785	
3	3	10	99.8	1088	1440	2.637859	
4	2	10	99.8	1129	-	3.398337	
5	3	10	61.9	1260	1179	4.183285	
6	2	10	51.7	1843	-	4.550602	
7	2	10	74.3	1363	-	5.655082	
8	3	10	66.1	1590	1844	6.641907	
9	3	10	53.2	1388	1429	7.375646	
10	2	10	50.8	1762	-	7.971555	
11	1	10	83.7	-	-	8.940196	
12	3	10	75.4	1292	1751	9.097394	
13	1	10	75.4	-	-	10.026631	
14	1	10	79.1	-	-	11.00663	
15	2	10	73.4	1965	-	11.925457	

Bin5 Statistics 2

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	12	62.6	1538	1465	0.206183	1
1	2	12	74	1872	-	0.848197	
2	2	12	78.7	1344	-	1.614323	
3	3	12	71.5	1382	1142	2.462617	
4	2	12	91.6	1017	-	3.02067	
5	1	12	84.2	-	-	3.293214	
6	2	12	62.4	1395	-	4.372186	
7	2	12	55.3	1950	-	4.820616	
8	3	12	52.8	1725	1497	5.33595	
9	2	12	88.1	1030	-	6.137309	
10	1	12	53.8	-	-	6.748125	
11	2	12	65	1718	-	7.124658	
12	2	12	84.3	1024	-	7.901875	
13	2	12	100	1621	-	8.546269	
14	2	12	92.6	1760	-	8.999053	
15	2	12	97.8	1015	-	9.926007	
16	2	12	58.1	1371	-	10.335438	
17	2	12	60.4	1500	-	11.176615	
18	1	12	86.4	-	-	11.791802	

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	11	59	1316	-	0.591723	1
1	2	11	51.8	1673	-	1.80226	
2	1	11	97.9	-	-	2.836534	
3	2	11	95.5	1698	-	4.541747	
4	2	11	85	1943	-	4.925353	
5	1	11	80.4	-	-	6.870584	
6	1	11	81.4	-	-	7.529913	
7	2	11	76.7	1477	-	9.577522	
8	2	11	75.4	1354	-	10.670775	
9	3	11	78.1	1037	1206	11.434206	

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	6	84.7	-	-	0.638016	0
1	1	6	94.8	-	-	1.14957	
2	1	6	99.9	-	-	2.01122	
3	2	6	92.3	1281	-	2.37444	
4	3	6	99.5	1984	1014	3.736233	
5	2	6	66.5	1575	-	4.010463	
6	2	6	64.9	1380	-	4.668421	
7	3	6	81.2	1530	1722	5.861011	
8	2	6	66	1743	-	6.167724	
9	2	6	81.5	1418	-	7.395099	
10	2	6	64.4	1581	-	8.033981	
11	2	6	94.4	1168	-	8.893504	
12	2	6	52.9	1136	-	9.447193	
13	3	6	97.3	1216	1022	10.021383	
14	2	6	99.9	1272	-	11.076441	
15	1	6	94.7	-	-	11.683345	

Bin5 Statistics 5

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	14	68.7	-	-	0.405909	1
1	2	14	54.3	1652	-	0.778454	
2	2	14	72.4	1190	-	1.683132	
3	2	14	87.5	1430	-	2.559333	
4	2	14	63.9	1468	-	3.273076	
5	3	14	65	1065	1580	4.001278	
6	1	14	74.5	-	-	4.844791	
7	1	14	77.4	-	-	5.880453	
8	2	14	56.4	1506	-	6.513371	
9	1	14	93.9	-	-	6.786128	
10	3	14	91.3	1777	1591	7.573905	
11	3	14	68.4	1536	1570	8.835946	
12	2	14	83.6	1534	-	9.119308	
13	1	14	70.1	-	-	10.03225	
14	3	14	94.6	1715	1291	10.835288	
15	2	14	81.8	1476	-	11.759404	

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	8	66.2	1435	1626	0.337089	0
1	2	8	63.4	1026	-	1.564028	
2	1	8	95.9	-	-	2.817354	
3	2	8	71.7	1632	-	3.447288	
4	3	8	92.8	1059	1016	5.140499	
5	2	8	99.5	1951	-	6.516031	
6	1	8	64.8	-	-	7.051677	
7	2	8	97.7	1479	-	8.710521	
8	1	8	85.8	-	-	9.508345	
9	2	8	97.5	1443	-	10.311913	
10	3	8	58.3	1862	1836	11.296475	

Bin5 Statistics 7

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	14	93.5	1126	1455	0.008908	1
1	2	14	55.3	1821	-	0.709312	
2	2	14	68.7	1395	-	1.559101	
3	3	14	55.8	1877	1682	2.457068	
4	2	14	63	1956	-	3.18315	
5	3	14	50.4	1326	1901	3.577975	
6	2	14	88.4	1766	-	4.114655	
7	1	14	54.1	-	-	5.25897	
8	2	14	88.3	1400	-	5.954962	
9	3	14	58.1	1560	1140	6.418518	
10	1	14	96.7	-	-	6.866257	
11	2	14	66.7	1506	-	7.775641	
12	2	14	73.3	1959	-	8.041828	
13	3	14	89.8	1840	1505	9.283904	
14	1	14	56.6	-	-	9.628223	
15	3	14	69.3	1970	1464	10.641746	
16	2	14	54.4	1703	-	11.176044	
17	3	14	84.2	1527	1663	11.73629	

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	13	63.9	1482	-	0.470918	1
1	2	13	54.2	1745	-	2.102654	
2	2	13	50.4	1561	-	3.374147	
3	1	13	96.6	-	-	4.241493	
4	3	13	69.3	1113	1632	5.571338	
5	1	13	63.3	-	-	6.649559	
6	2	13	71.5	1163	-	8.226972	
7	2	13	95	1115	-	9.592862	
8	3	13	69.6	1339	1883	9.626504	
9	2	13	86.4	1341	-	11.509151	

Bin5 Statistics 9

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	15	62	1945	-	0.798814	0
1	2	15	88.1	1694	-	1.572603	
2	1	15	66.1	-	-	1.889999	
3	2	15	81.4	1705	-	2.726856	
4	1	15	99	-	-	3.580794	
5	2	15	91.6	1259	-	5.04009	
6	2	15	77.8	1180	-	5.640131	
7	1	15	97.2	-	-	6.48756	
8	2	15	69.6	1850	-	7.572494	
9	2	15	66.4	1677	-	7.715255	
10	2	15	50.1	1242	-	8.841924	
11	1	15	87	-	-	9.737906	
12	1	15	63	-	-	10.988781	
13	2	15	92.9	1339	-	11.424602	

Bin5 Statistics 10

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	6	56.9	1907	-	0.620599	1
1	2	6	55.6	1649	-	1.559678	
2	1	6	90.4	-	-	2.224384	
3	1	6	95.8	-	-	3.49873	
4	2	6	51.5	1641	-	4.337325	
5	1	6	57.6		-	5.088201	
6	2	6	59.7	1308	-	6.288009	
7	2	6	64.1	1471	-	6.554125	
8	3	6	65.6	1881	1060	8.079283	
9	2	6	87.6	1496	-	9.126272	
10	1	6	84.9	-	-	9.779657	
11	3	6	79.8	1624	1608	10.582498	
12	2	6	53	1759	-	11.879944	

Bin5 Statistics 11

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	15	74.5	-	-	0.740488	
1	2	15	62.2	1150	-	1.588557	
2	3	15	88.4	1381	1745	1.850478	
3	3	15	69.1	1338	1404	2.430269	
4	2	15	58.4	1825	-	3.763044	
5	1	15	97.3	-	-	4.050444	
6	2	15	92.4	1789	-	5.255038	
7	1	15	97.7	-	-	5.9315	1
8	1	15	65.9	-	-	6.77643	
9	2	15	58	1109	-	7.368231	
10	3	15	81.1	1527	1195	8.299353	
11	1	15	82.9	-	-	9.049219	
12	3	15	54.9	1087	1698	9.936409	
13	3	15	51.8	1028	1561	10.469857	
14	2	15	59.6	1912	-	11.571967	

Bin5 Statistics 12

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	7	77.4	1822	1191	0.800379	
1	3	7	95.3	1155	1125	1.651016	
2	2	7	50.3	1999	-	2.245901	
3	2	7	74.9	1380	-	3.555546	
4	1	7	58.2	-	-	4.285172	
5	2	7	71.9	1855	-	5.421848	
6	2	7	60.5	1965	-	6.28605	1
7	2	7	94.2	1169	-	6.611931	
8	3	7	54.2	1370	1978	7.725585	
9	2	7	72.8	1722	-	8.811181	
10	1	7	79.3	-	-	9.818565	
11	2	7	64	1714	-	10.407675	
12	2	7	75	1112	-	11.935136	

Bin5 Statistics 13

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	7	85.4	1825	-	0.506882	
1	3	7	51.4	1031	1997	0.97316	
2	2	7	98.8	1435	-	1.469143	
3	1	7	61.4	-	-	2.00008	
4	2	7	78.4	1798	-	2.921348	
5	3	7	96.7	1382	1724	3.339733	
6	2	7	77.1	1772	-	4.110437	
7	2	7	73	1667	-	5.038892	
8	1	7	66.3	-	-	5.437496	
9	3	7	71.7	1502	1536	6.183945	1
10	2	7	55.3	1544	-	7.308851	
11	2	7	83.3	1731	-	7.634611	
12	1	7	74	-	-	8.521576	
13	1	7	64.9	-	-	9.089158	
14	3	7	55	1931	1946	9.47451	
15	2	7	99.2	1072	-	10.197085	
16	2	7	53.3	1213	-	10.869715	
17	2	7	73.2	1962	-	11.859835	

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	12	82.4	-	-	0.173945	1
1	1	12	76.6	-	-	0.829252	
2	1	12	88.8	-	-	1.642297	
3	1	12	92.1	-	-	2.637084	
4	1	12	78	-	-	3.358273	
5	2	12	74.2	1909	-	4.295194	
6	2	12	74.1	1549	-	4.979772	
7	2	12	62.2	1670	-	5.393029	
8	2	12	63.2	1074	-	6.081224	
9	3	12	84.3	1346	1716	6.843455	
10	2	12	64.7	1766	-	7.628799	
11	1	12	52.9	-	-	8.609944	
12	3	12	81.3	1220	1960	9.336549	
13	3	12	92.1	1737	1923	9.832758	
14	1	12	72	-	-	10.562251	
15	2	12	60.7	1530	-	11.982251	

Bin5 Statistics 15

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	8	85.3	-	-	0.017292	1
1	1	8	81.7	-	-	2.3413	
2	1	8	67.3	-	-	3.189999	
3	3	8	58	1964	1738	4.572077	
4	2	8	97.7	1567	-	5.119131	
5	3	8	86	1173	1794	6.125654	
6	3	8	76.8	1521	1748	8.367805	
7	2	8	86.3	1637	-	8.623947	
8	2	8	53.5	1098	-	10.640557	
9	3	8	89.6	1504	1972	11.167502	

Bin5 Statistics 16

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	17	68.3	1674	1537	0.050397	
1	3	17	76.4	1845	1668	1.304019	
2	2	17	63.7	1240	-	1.720423	
3	3	17	89.3	1306	1387	2.174852	
4	2	17	97.2	1493	-	2.924196	
5	2	17	57.9	1128	-	3.570027	
6	3	17	56.8	1071	1032	4.904241	
7	2	17	90.1	1029	-	5.131706	
8	3	17	60.8	1386	1542	5.944492	1
9	3	17	94.7	1339	1844	6.543114	
10	2	17	80	1738	-	7.193114	
11	1	17	66.6	-	-	8.292276	
12	2	17	54.8	1351	-	8.802324	
13	2	17	88.1	1707	-	9.865342	
14	1	17	84.6	-	-	10.570699	
15	1	17	55.1	-	-	11.126134	
16	2	17	96.4	1311	-	11.50943	

Bin5 Statistics 17

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	7	66.5	-	-	0.806463	0
1	1	7	71.3	-	-	2.48593	
2	1	7	53.8	-	-	4.218639	
3	3	7	77.9	1813	1665	5.73208	
4	3	7	59.3	1832	1717	6.047961	
5	2	7	94.9	1056	-	8.941161	
6	2	7	73	1234	-	10.041726	
7	2	7	58.9	1390	-	11.898038	

Bin5 Statistics 18

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	11	67.9	1140	1967	0.376502	1
1	3	11	99.8	1833	1233	0.717799	
2	1	11	80.7	-	-	1.666232	
3	2	11	91.8	1750	-	2.457326	
4	3	11	71.7	1625	1311	2.919187	
5	2	11	64.7	1447	-	3.906131	
6	3	11	96.6	1475	1754	4.397701	
7	2	11	91.3	1821	-	5.35306	
8	3	11	90.1	1546	1121	6.050303	
9	2	11	94.7	1514	-	6.514235	
10	1	11	70.3	-	-	7.658373	
11	2	11	79	1923	-	8.332291	
12	2	11	55	1903	-	9.116189	
13	3	11	58.2	1042	1835	9.73149	
14	2	11	61.6	1400	-	9.997422	
15	3	11	96.4	1761	1849	11.110467	
16	2	11	53.7	1176	-	11.598265	

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	56.4	1310	-	0.342568	1
1	1	13	82.5	-	-	0.862207	
2	2	13	99.2	1976	-	1.404458	
3	2	13	79.6	1336	-	2.175815	
4	2	13	54.1	1648	-	2.86649	
5	2	13	77.4	1449	-	3.711775	
6	2	13	78.7	1141	-	4.363793	
7	2	13	54.4	1874	-	4.739547	
8	1	13	69.2	-	-	5.578734	
9	3	13	53.6	1796	1718	5.95105	
10	1	13	82.4	-	-	6.794813	
11	3	13	84	1790	1464	7.199204	
12	3	13	62.8	1950	1011	8.181288	
13	2	13	52.7	1343	-	8.304268	
14	1	13	66.2	-	-	9.380331	
15	2	13	54.8	1244	-	9.786587	
16	2	13	92.9	1575	-	10.625357	
17	2	13	64.9	1412	-	10.81464	
18	1	13	57.2	-	-	11.855185	

Bin5 Statistics 20

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	8	90.2	-	-	0.435423	1
1	2	8	68.2	1994	-	1.695942	
2	2	8	80.9	1292	-	2.490465	
3	3	8	72.7	1434	1887	3.276839	
4	3	8	67.1	1006	1472	4.130843	
5	2	8	89.5	1933	-	4.596593	
6	2	8	92.1	1439	-	5.628259	
7	2	8	96.4	1692	-	6.48957	
8	1	8	79.4	-	-	7.503953	
9	2	8	50	1345	-	8.483892	
10	2	8	73.6	1435	-	8.81834	
11	3	8	59	1338	1368	9.706965	
12	3	8	85.5	1891	1867	10.494616	
13	2	8	80	1386	-	11.644796	

Bin5 Statistics 21

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	15	60.7	1766	-	0.813472	1
1	1	15	57.1	-	-	1.5688	
2	2	15	77.7	1021	-	1.965707	
3	2	15	91.6	1718	-	2.899711	
4	3	15	89.4	1116	1884	3.788025	
5	2	15	76.6	1470	-	4.828091	
6	3	15	85.3	1223	1744	6.171912	
7	1	15	64.9	-	-	7.33822	
8	2	15	84.8	1047	-	8.069914	
9	2	15	99.9	1716	-	8.934739	
10	3	15	66.2	1038	1019	9.538083	
11	2	15	88.4	1566	-	10.576316	
12	2	15	59.9	1973	-	11.502384	

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	20	54.8	1841	-	0.359069	1
1	1	20	76	-	-	1.461862	
2	1	20	68.1	-	-	1.621605	
3	2	20	66.2	1830	-	2.843775	
4	2	20	82.6	1727	-	3.235824	
5	2	20	89.2	1885	-	4.290299	
6	1	20	54.8	-	-	5.192244	
7	1	20	64.1	-	-	5.459713	
8	2	20	95.4	1461	-	6.249345	
9	2	20	57.6	1239	-	7.426799	
10	3	20	78.6	1071	1950	8.20849	
11	2	20	73.1	1667	-	8.910811	
12	2	20	71	1992	-	9.511277	
13	3	20	68.3	1847	1167	10.18257	
14	3	20	58.8	1129	1044	10.896473	
15	3	20	73.4	1512	1677	11.942261	

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	17	56.7	1171	1746	0.264844	1
1	2	17	87.7	1681	-	0.84569	
2	1	17	91.5	-	-	1.552304	
3	3	17	85.7	1298	1091	2.468875	
4	1	17	55.2		-	3.247395	
5	2	17	67.6	1488	-	4.243899	
6	2	17	50.8	1133	-	5.116115	
7	1	17	56.8	-	-	5.708322	
8	2	17	97	1239	-	6.445687	
9	3	17	78.9	1357	1285	7.2095	
10	1	17	85.8	-	-	8.202687	
11	1	17	96.9	-	-	8.645391	
12	2	17	68	1398	-	9.238871	
13	2	17	83.5	1377	-	10.419811	
14	2	17	54	1772	-	10.980132	
15	3	17	57.2	1852	1283	11.910863	

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	78.7	1201	-	0.394382	1
1	3	15	90.4	1713	1713	0.773691	
2	3	15	87.8	1482	1068	1.856946	
3	3	15	59	1681	1607	2.211349	
4	2	15	75.7	1056	-	2.827291	
5	1	15	83.2	-	-	3.858521	
6	2	15	55.1	1777	-	4.296319	
7	1	15	77.3	-	-	4.963017	
8	3	15	56.2	1538	1326	5.648187	
9	1	15	72.6	-	-	6.53346	
10	2	15	65.4	1459	-	6.710948	
11	3	15	76.4	1056	1267	7.886893	
12	2	15	71	1462	-	8.536186	
13	3	15	79.1	1523	1041	9.023519	
14	2	15	59.4	1731	-	9.708271	
15	3	15	59	1427	1980	10.463422	
16	1	15	79.3	-	-	10.674879	
17	2	15	70.8	1776	-	11.408861	

Bin5 Statistics 25

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	13	96.1	1192	1899	0.137836	1
1	1	13	80.2	-	-	1.256503	
2	1	13	93.7	-	-	1.853082	
3	3	13	89.1	1272	1270	2.303481	
4	2	13	81.5	1945	-	2.827602	
5	2	13	62.6	1098	-	3.631212	
6	2	13	50.5	1698	-	4.275731	
7	2	13	66.8	1922	-	5.305888	
8	2	13	85.3	1999	-	5.737803	
9	1	13	50.6	-	-	6.546962	
10	2	13	62.7	1044	-	6.867103	
11	1	13	57.4	-	-	7.84455	
12	1	13	88.2	-	-	8.135186	
13	1	13	69.7	-	-	9.27509	
14	1	13	51.5	-	-	9.574432	
15	2	13	54.4	1400	-	10.350649	
16	2	13	99.7	1893	-	11.110435	
17	3	13	70.2	1680	1239	11.538755	

Bin5 Statistics 26

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	5	92.8	-	-	0.147521	1
1	2	5	50	1926	-	0.634477	
2	2	5	91.5	1293	-	1.552824	
3	1	5	57.9	-	-	2.504259	
4	2	5	74.3	1550	-	3.049466	
5	1	5	99.3	-	-	3.353633	
6	2	5	54.1	1049	-	4.206446	
7	2	5	72.4	1902	-	5.034238	
8	2	5	57.9	1802	-	5.05875	
9	3	5	66.8	1571	1645	5.97665	
10	2	5	88.4	1056	-	6.629524	
11	2	5	97	1951	-	6.961673	
12	2	5	56	1832	-	7.651447	
13	2	5	68.9	1999	-	8.371595	
14	3	5	66	1077	1767	9.265494	
15	2	5	72.8	1057	-	10.08085	
16	2	5	52.4	1983	-	10.248185	
17	2	5	74	1721	-	10.932526	
18	3	5	73.5	1669	1455	11.606541	

Bin5 Statistics 27

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	19	85.8	1153	1512	0.084328	1
1	1	19	95.5	-	-	1.586516	
2	2	19	78.9	1569	-	1.942444	
3	2	19	89.3	1620	-	3.571541	
4	3	19	54.5	1104	1310	3.823639	
5	2	19	93.3	1380	-	4.826325	
6	2	19	77.7	1094	-	6.133837	
7	2	19	84.1	1185	-	6.82511	
8	2	19	94.7	1610	-	7.547072	
9	2	19	55.4	1828	-	8.597675	
10	2	19	91.4	1042	-	9.288883	
11	2	19	60.2	1359	-	11.012925	
12	2	19	53.4	1556	-	11.739438	

Bin5 Statistics 28

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	16	72.1	-	-	0.80366	1
1	2	16	100	1914	-	1.022272	
2	2	16	64.4	1297	-	2.108129	
3	2	16	65.6	1328	-	3.16382	
4	3	16	65.3	1935	1261	3.590401	
5	2	16	64.8	1494	-	4.723848	
6	2	16	98.5	1905	-	5.569339	
7	2	16	55.7	1282	-	6.566717	
8	2	16	76.6	1087	-	7.350291	
9	2	16	60.6	1894	-	7.868218	
10	1	16	59.9	-	-	9.226252	
11	3	16	86.7	1205	1517	10.047374	
12	3	16	67.1	1880	1412	10.78819	
13	3	16	82.3	1746	1041	11.396235	

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	70.9	1246	-	0.903913	1
1	3	13	90.9	1156	1287	2.321596	
2	3	13	54	1362	1867	4.050644	
3	2	13	70.7	1767	-	5.231633	
4	3	13	95.5	1069	1735	6.925101	
5	1	13	63.7	-	-	7.557994	
6	2	13	61.4	1264	-	9.389289	
7	2	13	83.7	1901	-	11.67373	

Bin5 Statistics 30

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	18	64.8	1782	-	0.363531	1
1	2	18	92.5	1359	-	0.718752	
2	2	18	88.4	1432	-	1.553953	
3	2	18	76.4	1912	-	1.976911	
4	2	18	91.8	1289	-	2.785417	
5	1	18	65.4	-	-	3.489827	
6	2	18	76.8	1764	-	4.216488	
7	3	18	74.6	1786	1085	4.60873	
8	3	18	94.2	1231	1087	5.291309	
9	3	18	84.9	1463	1643	5.938411	
10	2	18	80.6	1911	-	6.815177	
11	2	18	70.4	1609	-	7.006433	
12	2	18	63.1	1675	-	8.00792	
13	2	18	85.9	1817	-	8.581229	
14	1	18	72.6	-	-	8.962184	
15	1	18	57	-	-	10.057268	
16	2	18	99.2	1688	-	10.403733	
17	2	18	53.8	1449	-	11.29358	
18	2	18	86.1	1523	-	11.411857	

Table-6 Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)	Hopping Sequence
1	5510	9	1	333	1	5471.0, 5270.0, 5546.0, 5603.0, 5664.0, 5283.0, 5549.0, 5688.0, 5620.0, 5278.0, 5585.0, 5327.0, 5602.0, 5622.0, 5367.0, 5514.0, 5582.0, 5369.0, 5505.0, 5540.0, 5563.0, 5572.0, 5285.0, 5700.0, 5675.0, 5404.0, 5630.0, 5452.0, 5674.0, 5672.0, 5486.0, 5635.0, 5268.0, 5652.0, 5528.0, 5607.0, 5669.0, 5645.0, 5524.0, 5656.0, 5282.0, 5303.0, 5637.0, 5318.0, 5671.0, 5532.0, 5714.0, 5660.0, 5629.0, 5623.0, 5420.0, 5352.0, 5372.0, 5601.0, 5604.0, 5661.0, 5566.0, 5363.0, 5612.0, 5487.0, 5557.0, 5254.0, 5493.0, 5639.0, 5562.0, 5408.0, 5276.0, 5406.0, 5260.0, 5663.0, 5488.0, 5443.0, 5387.0, 5541.0, 5716.0, 5447.0, 5640.0, 5476.0, 5391.0, 5598.0, 5522.0, 5710.0, 5317.0, 5366.0, 5315.0, 5619.0, 5472.0, 5680.0, 5646.0, 5503.0, 5537.0, 5299.0, 5544.0, 5673.0, 5430.0, 5482.0, 5413.0, 5417.0, 5397.0, 5449.0 (number of hits: 6)
2	5510	9	1	333	1	5487.0, 5360.0, 5354.0, 5267.0, 5595.0, 5612.0, 5500.0, 5299.0, 5652.0, 5580.0, 5516.0, 5651.0, 5319.0, 5457.0, 5635.0, 5486.0, 5385.0, 5690.0, 5654.0, 5640.0, 5388.0, 5627.0, 5649.0, 5684.0, 5441.0, 5333.0, 5712.0, 5411.0, 5383.0, 5301.0, 5495.0, 5636.0, 5571.0, 5706.0, 5528.0, 5285.0, 5409.0, 5606.0, 5492.0, 5634.0, 5444.0, 5565.0, 5484.0, 5329.0, 5443.0, 5519.0, 5351.0, 5596.0, 5339.0, 5683.0, 5539.0, 5623.0, 5609.0, 5481.0, 5493.0, 5271.0, 5543.0, 5302.0, 5621.0, 5555.0, 5255.0, 5629.0, 5577.0, 5273.0, 5506.0, 5710.0, 5700.0, 5488.0, 5380.0, 5362.0, 5509.0, 5489.0, 5648.0, 5274.0, 5482.0, 5671.0, 5545.0, 5572.0, 5681.0, 5265.0, 5292.0, 5326.0, 5617.0, 5679.0, 5330.0, 5675.0, 5524.0, 5598.0, 5479.0, 5376.0, 5327.0, 5566.0, 5477.0, 5272.0, 5662.0, 5526.0, 5320.0, 5344.0, 5363.0, 5515.0 (number of hits: 11)
3	5510	9	1	333	1	5401.0, 5456.0, 5624.0, 5363.0, 5416.0, 5474.0, 5422.0, 5315.0, 5446.0, 5509.0, 5676.0, 5269.0, 5342.0, 5377.0, 5316.0, 5597.0, 5296.0, 5469.0, 5555.0, 5671.0, 5481.0, 5708.0, 5386.0, 5526.0, 5402.0, 5442.0, 5414.0, 5489.0, 5562.0, 5281.0, 5536.0, 5524.0, 5374.0, 5643.0, 5608.0, 5273.0, 5690.0, 5665.0, 5299.0, 5370.0, 5415.0, 5450.0, 5396.0, 5340.0, 5364.0, 5359.0, 5577.0, 5464.0, 5371.0, 5287.0, 5513.0, 5675.0, 5313.0, 5723.0, 5683.0, 5397.0, 5703.0, 5354.0, 5351.0, 5684.0, 5282.0, 5325.0, 5297.0, 5328.0, 5517.0,

						5549.0, 5651.0, 5418.0, 5551.0, 5459.0, 5332.0, 5475.0, 5265.0, 5383.0, 5420.0, 5697.0, 5487.0, 5431.0, 5293.0, 5499.0, 5352.0, 5523.0, 5458.0, 5605.0, 5298.0, 5463.0, 5263.0, 5346.0, 5409.0, 5381.0, 5648.0, 5576.0, 5368.0, 5369.0, 5663.0, 5599.0, 5620.0, 5417.0, 5622.0, 5271.0 (number of hits: 7)
4	5510	9	1	333	1	5619.0, 5578.0, 5547.0, 5373.0, 5273.0, 5306.0, 5433.0, 5434.0, 5404.0, 5317.0, 5567.0, 5386.0, 5594.0, 5669.0, 5492.0, 5671.0, 5437.0, 5471.0, 5481.0, 5523.0, 5484.0, 5390.0, 5414.0, 5586.0, 5496.0, 5519.0, 5694.0, 5272.0, 5513.0, 5269.0, 5644.0, 5341.0, 5591.0, 5718.0, 5627.0, 5685.0, 5650.0, 5698.0, 5500.0, 5336.0, 5629.0, 5609.0, 5326.0, 5572.0, 5393.0, 5334.0, 5465.0, 5333.0, 5455.0, 5535.0, 5482.0, 5540.0, 5460.0, 5490.0, 5469.0, 5556.0, 5264.0, 5534.0, 5452.0, 5252.0, 5515.0, 5670.0, 5265.0, 5712.0, 5525.0, 5303.0, 5531.0, 5411.0, 5509.0, 5588.0, 5268.0, 5680.0, 5335.0, 5522.0, 5715.0, 5620.0, 5419.0, 5339.0, 5695.0, 5338.0, 5664.0, 5279.0, 5293.0, 5462.0, 5608.0, 5630.0, 5289.0, 5520.0, 5403.0, 5394.0, 5510.0, 5607.0, 5260.0, 5397.0, 5660.0, 5324.0, 5478.0, 5560.0, 5665.0, 5319.0 (number of hits: 12)
5	5510	9	1	333	1	5553.0, 5333.0, 5546.0, 5290.0, 5497.0, 5368.0, 5647.0, 5309.0, 5367.0, 5521.0, 5504.0, 5673.0, 5657.0, 5547.0, 5624.0, 5518.0, 5386.0, 5316.0, 5634.0, 5503.0, 5362.0, 5569.0, 5577.0, 5483.0, 5397.0, 5718.0, 5672.0, 5421.0, 5627.0, 5542.0, 5601.0, 5380.0, 5555.0, 5262.0, 5464.0, 5549.0, 5383.0, 5453.0, 5329.0, 5411.0, 5279.0, 5640.0, 5304.0, 5373.0, 5613.0, 5714.0, 5356.0, 5573.0, 5462.0, 5620.0, 5360.0, 5265.0, 5700.0, 5251.0, 5393.0, 5543.0, 5283.0, 5403.0, 5691.0, 5562.0, 5621.0, 5266.0, 5320.0, 5648.0, 5408.0, 5566.0, 5584.0, 5539.0, 5471.0, 5416.0, 5697.0, 5441.0, 5695.0, 5358.0, 5418.0, 5723.0, 5486.0, 5665.0, 5343.0, 5612.0, 5364.0, 5537.0, 5660.0, 5301.0, 5519.0, 5337.0, 5413.0, 5323.0, 5391.0, 5708.0, 5425.0, 5580.0, 5469.0, 5389.0, 5476.0, 5571.0, 5524.0, 5574.0, 5702.0, 5508.0 (number of hits: 8)
6	5510	9	1	333	1	5524.0, 5318.0, 5588.0, 5661.0, 5512.0, 5580.0, 5673.0, 5428.0, 5615.0, 5279.0, 5299.0, 5687.0, 5382.0, 5255.0, 5405.0, 5594.0, 5567.0, 5517.0, 5363.0, 5323.0, 5593.0, 5360.0, 5352.0, 5460.0, 5663.0, 5533.0, 5709.0, 5469.0, 5415.0, 5251.0, 5585.0, 5464.0, 5361.0, 5365.0, 5715.0, 5574.0, 5459.0, 5499.0, 5477.0, 5450.0, 5431.0, 5549.0, 5333.0, 5695.0, 5531.0, 5359.0, 5357.0, 5636.0, 5422.0, 5689.0,

						5516.0, 5416.0, 5573.0, 5481.0, 5474.0, 5541.0, 5498.0, 5438.0, 5602.0, 5305.0, 5472.0, 5598.0, 5707.0, 5354.0, 5558.0, 5672.0, 5269.0, 5597.0, 5409.0, 5630.0, 5604.0, 5666.0, 5271.0, 5540.0, 5308.0, 5577.0, 5475.0, 5454.0, 5322.0, 5561.0, 5665.0, 5550.0, 5420.0, 5670.0, 5264.0, 5716.0, 5493.0, 5275.0, 5722.0, 5701.0, 5566.0, 5448.0, 5616.0, 5500.0, 5406.0, 5260.0, 5379.0, 5641.0, 5538.0, 5662.0 (number of hits: 8)
7	5510	9	1	333	1	5278.0, 5598.0, 5358.0, 5498.0, 5508.0, 5675.0, 5667.0, 5379.0, 5587.0, 5653.0, 5480.0, 5296.0, 5333.0, 5453.0, 5679.0, 5724.0, 5289.0, 5463.0, 5412.0, 5578.0, 5362.0, 5387.0, 5344.0, 5535.0, 5437.0, 5353.0, 5531.0, 5550.0, 5378.0, 5657.0, 5594.0, 5570.0, 5467.0, 5421.0, 5646.0, 5630.0, 5553.0, 5357.0, 5417.0, 5439.0, 5632.0, 5349.0, 5255.0, 5649.0, 5450.0, 5489.0, 5470.0, 5644.0, 5445.0, 5495.0, 5579.0, 5543.0, 5325.0, 5350.0, 5273.0, 5680.0, 5601.0, 5263.0, 5546.0, 5603.0, 5288.0, 5377.0, 5342.0, 5689.0, 5499.0, 5256.0, 5560.0, 5434.0, 5720.0, 5380.0, 5427.0, 5580.0, 5476.0, 5300.0, 5527.0, 5629.0, 5483.0, 5407.0, 5510.0, 5509.0, 5604.0, 5638.0, 5443.0, 5415.0, 5361.0, 5304.0, 5491.0, 5501.0, 5479.0, 5524.0, 5621.0, 5446.0, 5442.0, 5366.0, 5346.0, 5668.0, 5328.0, 5391.0, 5428.0, 5360.0 (number of hits: 9)
8	5510	9	1	333	1	5501.0, 5406.0, 5593.0, 5659.0, 5266.0, 5496.0, 5491.0, 5539.0, 5380.0, 5546.0, 5282.0, 5671.0, 5522.0, 5281.0, 5293.0, 5534.0, 5337.0, 5712.0, 5478.0, 5519.0, 5684.0, 5635.0, 5493.0, 5528.0, 5495.0, 5328.0, 5436.0, 5687.0, 5665.0, 5649.0, 5672.0, 5514.0, 5454.0, 5437.0, 5561.0, 5575.0, 5428.0, 5513.0, 5395.0, 5652.0, 5302.0, 5303.0, 5272.0, 5334.0, 5550.0, 5286.0, 5621.0, 5610.0, 5325.0, 5617.0, 5383.0, 5693.0, 5352.0, 5555.0, 5252.0, 5356.0, 5508.0, 5310.0, 5452.0, 5290.0, 5592.0, 5377.0, 5398.0, 5586.0, 5296.0, 5445.0, 5319.0, 5329.0, 5507.0, 5682.0, 5463.0, 5375.0, 5335.0, 5482.0, 5629.0, 5664.0, 5502.0, 5313.0, 5703.0, 5557.0, 5378.0, 5523.0, 5645.0, 5403.0, 5376.0, 5517.0, 5678.0, 5584.0, 5399.0, 5683.0, 5326.0, 5447.0, 5294.0, 5273.0, 5392.0, 5628.0, 5604.0, 5721.0, 5705.0, 5284.0 (number of hits: 13)
9	5510	9	1	333	1	5663.0, 5692.0, 5408.0, 5669.0, 5554.0, 5527.0, 5507.0, 5584.0, 5290.0, 5596.0, 5414.0, 5272.0, 5419.0, 5488.0, 5656.0, 5420.0, 5347.0, 5468.0, 5311.0, 5713.0, 5362.0, 5323.0, 5370.0, 5539.0, 5618.0, 5710.0, 5506.0, 5657.0, 5283.0, 5477.0, 5573.0, 5575.0, 5551.0, 5277.0, 5465.0,

						5292.0, 5648.0, 5629.0, 5530.0, 5264.0, 5336.0, 5339.0, 5653.0, 5439.0, 5563.0, 5390.0, 5677.0, 5593.0, 5720.0, 5707.0, 5382.0, 5312.0, 5568.0, 5371.0, 5508.0, 5691.0, 5592.0, 5296.0, 5299.0, 5304.0, 5386.0, 5319.0, 5586.0, 5288.0, 5611.0, 5674.0, 5661.0, 5499.0, 5476.0, 5602.0, 5359.0, 5562.0, 5630.0, 5431.0, 5708.0, 5632.0, 5346.0, 5337.0, 5494.0, 5343.0, 5685.0, 5552.0, 5446.0, 5479.0, 5672.0, 5289.0, 5712.0, 5393.0, 5532.0, 5443.0, 5396.0, 5721.0, 5567.0, 5599.0, 5365.0, 5331.0, 5718.0, 5640.0, 5335.0, 5650.0 (number of hits: 6)
10	5510	9	1	333	1	5298.0, 5437.0, 5547.0, 5273.0, 5565.0, 5382.0, 5521.0, 5573.0, 5478.0, 5342.0, 5290.0, 5718.0, 5402.0, 5602.0, 5331.0, 5341.0, 5714.0, 5548.0, 5724.0, 5646.0, 5435.0, 5296.0, 5559.0, 5614.0, 5696.0, 5640.0, 5431.0, 5676.0, 5535.0, 5400.0, 5537.0, 5356.0, 5709.0, 5336.0, 5452.0, 5422.0, 5675.0, 5425.0, 5407.0, 5258.0, 5289.0, 5453.0, 5502.0, 5275.0, 5441.0, 5274.0, 5256.0, 5414.0, 5302.0, 5679.0, 5712.0, 5561.0, 5708.0, 5555.0, 5324.0, 5461.0, 5272.0, 5703.0, 5678.0, 5697.0, 5530.0, 5438.0, 5306.0, 5335.0, 5469.0, 5303.0, 5567.0, 5642.0, 5454.0, 5271.0, 5432.0, 5322.0, 5343.0, 5514.0, 5625.0, 5667.0, 5574.0, 5608.0, 5280.0, 5706.0, 5365.0, 5522.0, 5283.0, 5580.0, 5489.0, 5662.0, 5338.0, 5590.0, 5639.0, 5491.0, 5693.0, 5360.0, 5687.0, 5260.0, 5707.0, 5434.0, 5719.0, 5269.0, 5456.0, 5421.0 (number of hits: 4)
11	5510	9	1	333	1	5293.0, 5713.0, 5505.0, 5711.0, 5602.0, 5339.0, 5358.0, 5328.0, 5695.0, 5453.0, 5403.0, 5676.0, 5356.0, 5259.0, 5610.0, 5431.0, 5258.0, 5288.0, 5482.0, 5508.0, 5637.0, 5600.0, 5261.0, 5678.0, 5571.0, 5677.0, 5684.0, 5265.0, 5463.0, 5603.0, 5419.0, 5285.0, 5707.0, 5573.0, 5712.0, 5341.0, 5715.0, 5638.0, 5291.0, 5568.0, 5590.0, 5585.0, 5408.0, 5553.0, 5361.0, 5326.0, 5689.0, 5690.0, 5267.0, 5386.0, 5390.0, 5519.0, 5292.0, 5507.0, 5305.0, 5370.0, 5367.0, 5683.0, 5503.0, 5351.0, 5574.0, 5389.0, 5524.0, 5383.0, 5476.0, 5429.0, 5404.0, 5559.0, 5432.0, 5393.0, 5298.0, 5417.0, 5660.0, 5597.0, 5627.0, 5615.0, 5517.0, 5313.0, 5434.0, 5421.0, 5428.0, 5665.0, 5382.0, 5694.0, 5487.0, 5598.0, 5636.0, 5378.0, 5375.0, 5320.0, 5514.0, 5506.0, 5479.0, 5709.0, 5706.0, 5289.0, 5266.0, 5253.0, 5651.0, 5425.0 (number of hits: 9)
12	5510	9	1	333	1	5486.0, 5335.0, 5410.0, 5283.0, 5676.0, 5706.0, 5691.0, 5418.0, 5332.0, 5254.0, 5579.0, 5296.0, 5270.0, 5442.0, 5300.0, 5562.0, 5304.0, 5403.0, 5564.0, 5320.0,

						5711.0, 5541.0, 5465.0, 5504.0, 5301.0, 5429.0, 5575.0, 5354.0, 5554.0, 5468.0, 5597.0, 5412.0, 5509.0, 5609.0, 5297.0, 5388.0, 5649.0, 5383.0, 5590.0, 5389.0, 5281.0, 5587.0, 5681.0, 5413.0, 5555.0, 5557.0, 5294.0, 5685.0, 5697.0, 5655.0, 5371.0, 5677.0, 5364.0, 5461.0, 5622.0, 5602.0, 5614.0, 5439.0, 5475.0, 5518.0, 5470.0, 5474.0, 5341.0, 5351.0, 5401.0, 5415.0, 5717.0, 5667.0, 5440.0, 5641.0, 5709.0, 5588.0, 5548.0, 5515.0, 5552.0, 5422.0, 5536.0, 5563.0, 5723.0, 5696.0, 5467.0, 5271.0, 5513.0, 5478.0, 5512.0, 5538.0, 5672.0, 5334.0, 5260.0, 5506.0, 5505.0, 5561.0, 5462.0, 5374.0, 5661.0, 5559.0, 5276.0, 5604.0, 5343.0, 5375.0 (number of hits: 8)
13	5510	9	1	333	1	5389.0, 5341.0, 5697.0, 5606.0, 5288.0, 5677.0, 5713.0, 5553.0, 5400.0, 5311.0, 5317.0, 5694.0, 5295.0, 5566.0, 5278.0, 5314.0, 5661.0, 5590.0, 5377.0, 5365.0, 5283.0, 5632.0, 5417.0, 5586.0, 5618.0, 5384.0, 5305.0, 5521.0, 5512.0, 5609.0, 5369.0, 5323.0, 5313.0, 5297.0, 5640.0, 5720.0, 5350.0, 5658.0, 5679.0, 5347.0, 5605.0, 5535.0, 5611.0, 5303.0, 5404.0, 5277.0, 5528.0, 5723.0, 5572.0, 5324.0, 5524.0, 5544.0, 5462.0, 5442.0, 5385.0, 5494.0, 5292.0, 5273.0, 5454.0, 5444.0, 5712.0, 5467.0, 5619.0, 5637.0, 5300.0, 5505.0, 5621.0, 5608.0, 5716.0, 5456.0, 5651.0, 5597.0, 5616.0, 5654.0, 5269.0, 5624.0, 5573.0, 5628.0, 5660.0, 5643.0, 5358.0, 5320.0, 5705.0, 5391.0, 5603.0, 5280.0, 5457.0, 5425.0, 5617.0, 5589.0, 5378.0, 5578.0, 5510.0, 5381.0, 5276.0, 5503.0, 5598.0, 5626.0, 5343.0, 5492.0 (number of hits: 8)
14	5510	9	1	333	1	5612.0, 5663.0, 5557.0, 5274.0, 5367.0, 5395.0, 5526.0, 5709.0, 5365.0, 5472.0, 5352.0, 5256.0, 5563.0, 5374.0, 5428.0, 5286.0, 5469.0, 5489.0, 5390.0, 5495.0, 5565.0, 5717.0, 5521.0, 5592.0, 5479.0, 5561.0, 5606.0, 5401.0, 5614.0, 5539.0, 5607.0, 5681.0, 5615.0, 5358.0, 5568.0, 5657.0, 5687.0, 5282.0, 5438.0, 5441.0, 5425.0, 5294.0, 5548.0, 5604.0, 5481.0, 5639.0, 5298.0, 5567.0, 5412.0, 5682.0, 5545.0, 5476.0, 5513.0, 5250.0, 5634.0, 5357.0, 5277.0, 5396.0, 5622.0, 5366.0, 5661.0, 5444.0, 5371.0, 5714.0, 5338.0, 5386.0, 5623.0, 5702.0, 5312.0, 5511.0, 5382.0, 5718.0, 5309.0, 5405.0, 5269.0, 5372.0, 5603.0, 5722.0, 5416.0, 5556.0, 5600.0, 5431.0, 5512.0, 5591.0, 5484.0, 5646.0, 5627.0, 5626.0, 5609.0, 5381.0, 5402.0, 5258.0, 5642.0, 5705.0, 5710.0, 5398.0, 5341.0, 5456.0, 5318.0, 5280.0 (number of hits: 6)
15	5510	9	1	333	1	5546.0, 5668.0, 5638.0, 5655.0, 5335.0,

						5718.0, 5548.0, 5406.0, 5697.0, 5487.0, 5403.0, 5519.0, 5651.0, 5562.0, 5319.0, 5277.0, 5645.0, 5516.0, 5706.0, 5524.0, 5491.0, 5267.0, 5628.0, 5620.0, 5495.0, 5295.0, 5536.0, 5493.0, 5674.0, 5625.0, 5435.0, 5650.0, 5381.0, 5689.0, 5458.0, 5279.0, 5633.0, 5354.0, 5623.0, 5572.0, 5558.0, 5515.0, 5690.0, 5449.0, 5272.0, 5498.0, 5441.0, 5376.0, 5478.0, 5506.0, 5601.0, 5393.0, 5619.0, 5626.0, 5399.0, 5644.0, 5632.0, 5321.0, 5591.0, 5677.0, 5594.0, 5480.0, 5326.0, 5640.0, 5322.0, 5407.0, 5529.0, 5517.0, 5724.0, 5358.0, 5474.0, 5681.0, 5460.0, 5527.0, 5283.0, 5293.0, 5422.0, 5578.0, 5722.0, 5484.0, 5386.0, 5534.0, 5660.0, 5579.0, 5309.0, 5462.0, 5443.0, 5446.0, 5485.0, 5402.0, 5653.0, 5314.0, 5496.0, 5465.0, 5528.0, 5341.0, 5338.0, 5573.0, 5585.0, 5400.0 (number of hits: 11)
16	5510	9	1	333	1	5472.0, 5506.0, 5495.0, 5567.0, 5476.0, 5341.0, 5667.0, 5409.0, 5474.0, 5560.0, 5605.0, 5697.0, 5653.0, 5349.0, 5288.0, 5597.0, 5318.0, 5412.0, 5678.0, 5553.0, 5687.0, 5562.0, 5457.0, 5584.0, 5374.0, 5598.0, 5501.0, 5316.0, 5662.0, 5347.0, 5306.0, 5719.0, 5435.0, 5304.0, 5617.0, 5543.0, 5297.0, 5556.0, 5581.0, 5481.0, 5703.0, 5577.0, 5278.0, 5468.0, 5578.0, 5490.0, 5445.0, 5529.0, 5343.0, 5404.0, 5427.0, 5621.0, 5258.0, 5590.0, 5430.0, 5627.0, 5548.0, 5458.0, 5700.0, 5367.0, 5492.0, 5281.0, 5429.0, 5339.0, 5541.0, 5423.0, 5482.0, 5441.0, 5377.0, 5308.0, 5269.0, 5443.0, 5696.0, 5534.0, 5633.0, 5363.0, 5705.0, 5520.0, 5527.0, 5625.0, 5614.0, 5362.0, 5507.0, 5421.0, 5566.0, 5251.0, 5360.0, 5712.0, 5340.0, 5602.0, 5259.0, 5498.0, 5626.0, 5704.0, 5596.0, 5369.0, 5310.0, 5517.0, 5594.0, 5634.0 (number of hits: 9)
17	5510	9	1	333	1	5719.0, 5411.0, 5482.0, 5307.0, 5512.0, 5468.0, 5277.0, 5569.0, 5696.0, 5604.0, 5643.0, 5311.0, 5381.0, 5384.0, 5658.0, 5287.0, 5472.0, 5695.0, 5421.0, 5364.0, 5710.0, 5434.0, 5401.0, 5594.0, 5349.0, 5592.0, 5271.0, 5375.0, 5633.0, 5414.0, 5465.0, 5520.0, 5480.0, 5656.0, 5385.0, 5258.0, 5263.0, 5425.0, 5570.0, 5489.0, 5668.0, 5648.0, 5492.0, 5682.0, 5679.0, 5498.0, 5611.0, 5687.0, 5529.0, 5617.0, 5391.0, 5716.0, 5360.0, 5578.0, 5616.0, 5546.0, 5496.0, 5642.0, 5455.0, 5395.0, 5637.0, 5560.0, 5259.0, 5674.0, 5257.0, 5344.0, 5448.0, 5606.0, 5429.0, 5329.0, 5689.0, 5412.0, 5293.0, 5639.0, 5459.0, 5587.0, 5625.0, 5628.0, 5552.0, 5717.0, 5701.0, 5306.0, 5514.0, 5516.0, 5488.0, 5722.0, 5645.0, 5320.0, 5261.0, 5665.0, 5346.0, 5276.0, 5681.0, 5550.0, 5452.0,

						5302.0, 5427.0, 5572.0, 5581.0, 5438.0 (number of hits: 7)
18	5510	9	1	333	1	5575.0, 5642.0, 5691.0, 5503.0, 5609.0, 5621.0, 5719.0, 5712.0, 5450.0, 5402.0, 5655.0, 5471.0, 5429.0, 5669.0, 5269.0, 5657.0, 5652.0, 5331.0, 5264.0, 5603.0, 5654.0, 5462.0, 5339.0, 5673.0, 5435.0, 5346.0, 5607.0, 5279.0, 5336.0, 5345.0, 5692.0, 5721.0, 5571.0, 5723.0, 5542.0, 5393.0, 5275.0, 5688.0, 5421.0, 5545.0, 5447.0, 5560.0, 5385.0, 5452.0, 5501.0, 5282.0, 5540.0, 5363.0, 5490.0, 5668.0, 5352.0, 5410.0, 5520.0, 5262.0, 5302.0, 5277.0, 5565.0, 5504.0, 5614.0, 5448.0, 5289.0, 5309.0, 5454.0, 5389.0, 5293.0, 5353.0, 5512.0, 5496.0, 5704.0, 5535.0, 5612.0, 5615.0, 5653.0, 5703.0, 5492.0, 5300.0, 5325.0, 5645.0, 5341.0, 5674.0, 5640.0, 5305.0, 5284.0, 5663.0, 5395.0, 5720.0, 5332.0, 5576.0, 5406.0, 5299.0, 5699.0, 5351.0, 5656.0, 5334.0, 5296.0, 5543.0, 5358.0, 5626.0, 5554.0, 5599.0 (number of hits: 7)
19	5510	9	1	333	1	5283.0, 5310.0, 5387.0, 5708.0, 5452.0, 5639.0, 5378.0, 5559.0, 5293.0, 5531.0, 5655.0, 5591.0, 5515.0, 5305.0, 5368.0, 5650.0, 5366.0, 5313.0, 5657.0, 5678.0, 5703.0, 5342.0, 5664.0, 5475.0, 5699.0, 5298.0, 5566.0, 5643.0, 5627.0, 5343.0, 5349.0, 5579.0, 5686.0, 5645.0, 5347.0, 5486.0, 5405.0, 5425.0, 5339.0, 5383.0, 5396.0, 5374.0, 5553.0, 5554.0, 5462.0, 5661.0, 5460.0, 5688.0, 5473.0, 5379.0, 5700.0, 5717.0, 5404.0, 5684.0, 5528.0, 5324.0, 5602.0, 5589.0, 5573.0, 5402.0, 5695.0, 5381.0, 5447.0, 5280.0, 5307.0, 5533.0, 5555.0, 5445.0, 5551.0, 5301.0, 5522.0, 5696.0, 5260.0, 5455.0, 5574.0, 5373.0, 5656.0, 5672.0, 5372.0, 5437.0, 5502.0, 5687.0, 5421.0, 5401.0, 5424.0, 5375.0, 5675.0, 5506.0, 5581.0, 5290.0, 5377.0, 5323.0, 5314.0, 5268.0, 5576.0, 5626.0, 5438.0, 5540.0, 5524.0, 5571.0 (number of hits: 5)
20	5510	9	1	333	1	5275.0, 5472.0, 5386.0, 5659.0, 5506.0, 5433.0, 5669.0, 5400.0, 5344.0, 5459.0, 5409.0, 5514.0, 5601.0, 5546.0, 5508.0, 5460.0, 5323.0, 5629.0, 5456.0, 5511.0, 5651.0, 5372.0, 5610.0, 5309.0, 5679.0, 5592.0, 5261.0, 5710.0, 5705.0, 5312.0, 5594.0, 5464.0, 5437.0, 5539.0, 5719.0, 5449.0, 5443.0, 5562.0, 5613.0, 5333.0, 5487.0, 5292.0, 5283.0, 5568.0, 5260.0, 5578.0, 5593.0, 5268.0, 5618.0, 5550.0, 5501.0, 5338.0, 5417.0, 5534.0, 5359.0, 5569.0, 5378.0, 5339.0, 5689.0, 5367.0, 5430.0, 5416.0, 5595.0, 5529.0, 5322.0, 5532.0, 5571.0, 5522.0, 5526.0, 5620.0, 5319.0, 5358.0, 5369.0, 5704.0, 5493.0, 5262.0, 5407.0, 5491.0, 5702.0, 5269.0,

						5394.0, 5596.0, 5297.0, 5294.0, 5406.0, 5644.0, 5404.0, 5547.0, 5697.0, 5624.0, 5528.0, 5516.0, 5405.0, 5496.0, 5419.0, 5408.0, 5637.0, 5377.0, 5708.0, 5444.0 (number of hits: 10)
21	5510	9	1	333	1	5615.0, 5274.0, 5348.0, 5629.0, 5462.0, 5689.0, 5372.0, 5261.0, 5685.0, 5552.0, 5491.0, 5263.0, 5284.0, 5433.0, 5509.0, 5523.0, 5444.0, 5631.0, 5282.0, 5485.0, 5652.0, 5580.0, 5636.0, 5324.0, 5638.0, 5583.0, 5601.0, 5293.0, 5333.0, 5435.0, 5526.0, 5611.0, 5620.0, 5368.0, 5452.0, 5362.0, 5373.0, 5481.0, 5647.0, 5489.0, 5683.0, 5575.0, 5695.0, 5646.0, 5642.0, 5331.0, 5352.0, 5335.0, 5597.0, 5604.0, 5613.0, 5322.0, 5487.0, 5393.0, 5577.0, 5546.0, 5254.0, 5561.0, 5286.0, 5494.0, 5258.0, 5461.0, 5644.0, 5353.0, 5411.0, 5386.0, 5548.0, 5602.0, 5568.0, 5345.0, 5507.0, 5723.0, 5586.0, 5306.0, 5623.0, 5510.0, 5279.0, 5617.0, 5662.0, 5709.0, 5320.0, 5502.0, 5426.0, 5347.0, 5564.0, 5715.0, 5446.0, 5505.0, 5584.0, 5563.0, 5649.0, 5256.0, 5360.0, 5639.0, 5520.0, 5290.0, 5428.0, 5698.0, 5407.0, 5278.0 (number of hits: 9)
22	5510	9	1	333	1	5490.0, 5285.0, 5650.0, 5361.0, 5703.0, 5600.0, 5543.0, 5435.0, 5396.0, 5706.0, 5720.0, 5410.0, 5701.0, 5660.0, 5459.0, 5662.0, 5351.0, 5596.0, 5258.0, 5683.0, 5425.0, 5447.0, 5604.0, 5454.0, 5724.0, 5295.0, 5508.0, 5671.0, 5544.0, 5548.0, 5712.0, 5331.0, 5465.0, 5587.0, 5333.0, 5262.0, 5335.0, 5260.0, 5357.0, 5489.0, 5542.0, 5498.0, 5677.0, 5315.0, 5426.0, 5450.0, 5440.0, 5657.0, 5296.0, 5270.0, 5398.0, 5411.0, 5365.0, 5612.0, 5566.0, 5517.0, 5488.0, 5623.0, 5277.0, 5507.0, 5535.0, 5451.0, 5678.0, 5308.0, 5481.0, 5336.0, 5448.0, 5408.0, 5289.0, 5530.0, 5559.0, 5406.0, 5655.0, 5395.0, 5384.0, 5320.0, 5383.0, 5375.0, 5404.0, 5492.0, 5302.0, 5483.0, 5676.0, 5323.0, 5711.0, 5675.0, 5394.0, 5368.0, 5460.0, 5572.0, 5561.0, 5449.0, 5338.0, 5632.0, 5434.0, 5345.0, 5617.0, 5609.0, 5510.0, 5597.0 (number of hits: 6)
23	5510	9	1	333	1	5312.0, 5703.0, 5403.0, 5686.0, 5708.0, 5488.0, 5475.0, 5536.0, 5679.0, 5342.0, 5365.0, 5696.0, 5274.0, 5310.0, 5641.0, 5471.0, 5364.0, 5624.0, 5428.0, 5548.0, 5550.0, 5601.0, 5388.0, 5295.0, 5311.0, 5646.0, 5420.0, 5296.0, 5713.0, 5299.0, 5439.0, 5715.0, 5493.0, 5331.0, 5317.0, 5692.0, 5443.0, 5408.0, 5651.0, 5421.0, 5653.0, 5407.0, 5401.0, 5705.0, 5700.0, 5464.0, 5389.0, 5538.0, 5517.0, 5716.0, 5256.0, 5482.0, 5300.0, 5372.0, 5596.0, 5402.0, 5345.0, 5410.0, 5667.0, 5706.0, 5283.0, 5321.0, 5472.0, 5688.0, 5448.0,

						5392.0, 5697.0, 5584.0, 5495.0, 5440.0, 5662.0, 5367.0, 5396.0, 5613.0, 5267.0, 5516.0, 5379.0, 5490.0, 5668.0, 5524.0, 5719.0, 5491.0, 5535.0, 5709.0, 5541.0, 5565.0, 5553.0, 5374.0, 5362.0, 5545.0, 5351.0, 5645.0, 5357.0, 5278.0, 5529.0, 5272.0, 5412.0, 5423.0, 5400.0, 5275.0 (number of hits: 5)
24	5510	9	1	333	1	5264.0, 5288.0, 5444.0, 5363.0, 5534.0, 5655.0, 5696.0, 5463.0, 5495.0, 5309.0, 5322.0, 5327.0, 5585.0, 5543.0, 5384.0, 5540.0, 5307.0, 5645.0, 5609.0, 5369.0, 5633.0, 5638.0, 5383.0, 5700.0, 5504.0, 5701.0, 5622.0, 5465.0, 5680.0, 5306.0, 5520.0, 5650.0, 5625.0, 5691.0, 5509.0, 5523.0, 5635.0, 5694.0, 5267.0, 5402.0, 5688.0, 5396.0, 5456.0, 5513.0, 5489.0, 5501.0, 5592.0, 5475.0, 5670.0, 5514.0, 5553.0, 5541.0, 5587.0, 5341.0, 5658.0, 5361.0, 5292.0, 5627.0, 5490.0, 5408.0, 5674.0, 5538.0, 5719.0, 5494.0, 5331.0, 5528.0, 5617.0, 5317.0, 5668.0, 5319.0, 5432.0, 5542.0, 5283.0, 5291.0, 5602.0, 5250.0, 5430.0, 5560.0, 5282.0, 5511.0, 5258.0, 5697.0, 5474.0, 5262.0, 5690.0, 5549.0, 5375.0, 5559.0, 5547.0, 5569.0, 5353.0, 5716.0, 5607.0, 5345.0, 5407.0, 5387.0, 5521.0, 5515.0, 5646.0, 5334.0 (number of hits: 12)
25	5510	9	1	333	1	5326.0, 5648.0, 5419.0, 5567.0, 5486.0, 5444.0, 5607.0, 5652.0, 5670.0, 5275.0, 5264.0, 5561.0, 5461.0, 5568.0, 5640.0, 5681.0, 5417.0, 5585.0, 5505.0, 5628.0, 5324.0, 5544.0, 5357.0, 5354.0, 5550.0, 5305.0, 5258.0, 5467.0, 5456.0, 5705.0, 5257.0, 5334.0, 5401.0, 5271.0, 5678.0, 5553.0, 5443.0, 5344.0, 5282.0, 5442.0, 5483.0, 5677.0, 5547.0, 5589.0, 5574.0, 5474.0, 5584.0, 5631.0, 5552.0, 5328.0, 5466.0, 5630.0, 5623.0, 5596.0, 5320.0, 5429.0, 5253.0, 5503.0, 5722.0, 5285.0, 5624.0, 5671.0, 5702.0, 5360.0, 5441.0, 5415.0, 5663.0, 5295.0, 5642.0, 5409.0, 5313.0, 5601.0, 5634.0, 5469.0, 5321.0, 5470.0, 5394.0, 5555.0, 5558.0, 5651.0, 5588.0, 5724.0, 5517.0, 5655.0, 5433.0, 5389.0, 5297.0, 5435.0, 5493.0, 5516.0, 5528.0, 5304.0, 5488.0, 5346.0, 5638.0, 5708.0, 5540.0, 5703.0, 5340.0, 5402.0 (number of hits: 5)
26	5510	9	1	333	1	5626.0, 5666.0, 5513.0, 5541.0, 5717.0, 5367.0, 5400.0, 5286.0, 5252.0, 5359.0, 5616.0, 5708.0, 5552.0, 5487.0, 5276.0, 5416.0, 5551.0, 5488.0, 5340.0, 5281.0, 5562.0, 5609.0, 5579.0, 5373.0, 5363.0, 5522.0, 5535.0, 5440.0, 5274.0, 5348.0, 5384.0, 5518.0, 5364.0, 5703.0, 5673.0, 5486.0, 5660.0, 5534.0, 5554.0, 5329.0, 5395.0, 5617.0, 5253.0, 5369.0, 5639.0, 5582.0, 5278.0, 5576.0, 5527.0, 5311.0,

						5458.0, 5301.0, 5642.0, 5678.0, 5264.0, 5399.0, 5676.0, 5324.0, 5561.0, 5315.0, 5414.0, 5506.0, 5694.0, 5543.0, 5303.0, 5555.0, 5328.0, 5268.0, 5622.0, 5584.0, 5357.0, 5461.0, 5539.0, 5353.0, 5560.0, 5663.0, 5636.0, 5514.0, 5715.0, 5648.0, 5299.0, 5714.0, 5407.0, 5386.0, 5550.0, 5528.0, 5437.0, 5565.0, 5652.0, 5423.0, 5346.0, 5417.0, 5630.0, 5500.0, 5615.0, 5429.0, 5682.0, 5441.0, 5662.0, 5599.0 (number of hits: 7)
27	5510	9	1	333	1	5335.0, 5389.0, 5526.0, 5564.0, 5469.0, 5599.0, 5391.0, 5661.0, 5559.0, 5496.0, 5295.0, 5412.0, 5508.0, 5437.0, 5722.0, 5530.0, 5554.0, 5458.0, 5278.0, 5606.0, 5701.0, 5488.0, 5473.0, 5602.0, 5663.0, 5269.0, 5527.0, 5341.0, 5703.0, 5641.0, 5264.0, 5290.0, 5326.0, 5711.0, 5628.0, 5301.0, 5525.0, 5609.0, 5570.0, 5390.0, 5268.0, 5342.0, 5600.0, 5363.0, 5417.0, 5459.0, 5685.0, 5361.0, 5465.0, 5614.0, 5418.0, 5688.0, 5272.0, 5495.0, 5294.0, 5430.0, 5410.0, 5598.0, 5299.0, 5505.0, 5611.0, 5638.0, 5395.0, 5545.0, 5654.0, 5597.0, 5374.0, 5596.0, 5504.0, 5415.0, 5362.0, 5517.0, 5288.0, 5277.0, 5422.0, 5411.0, 5439.0, 5310.0, 5591.0, 5263.0, 5420.0, 5451.0, 5616.0, 5406.0, 5262.0, 5677.0, 5322.0, 5367.0, 5528.0, 5678.0, 5387.0, 5472.0, 5267.0, 5664.0, 5673.0, 5457.0, 5405.0, 5448.0, 5375.0, 5370.0 (number of hits: 9)
28	5510	9	1	333	1	5452.0, 5511.0, 5333.0, 5526.0, 5522.0, 5629.0, 5580.0, 5467.0, 5255.0, 5478.0, 5609.0, 5535.0, 5324.0, 5633.0, 5493.0, 5596.0, 5291.0, 5545.0, 5419.0, 5714.0, 5505.0, 5438.0, 5619.0, 5322.0, 5622.0, 5429.0, 5408.0, 5399.0, 5274.0, 5343.0, 5369.0, 5486.0, 5643.0, 5630.0, 5353.0, 5331.0, 5503.0, 5722.0, 5332.0, 5528.0, 5483.0, 5314.0, 5639.0, 5589.0, 5717.0, 5472.0, 5403.0, 5394.0, 5384.0, 5510.0, 5524.0, 5433.0, 5605.0, 5471.0, 5289.0, 5464.0, 5329.0, 5705.0, 5632.0, 5288.0, 5613.0, 5541.0, 5557.0, 5577.0, 5719.0, 5565.0, 5512.0, 5539.0, 5578.0, 5485.0, 5636.0, 5296.0, 5372.0, 5536.0, 5600.0, 5724.0, 5427.0, 5374.0, 5267.0, 5647.0, 5319.0, 5553.0, 5697.0, 5691.0, 5287.0, 5321.0, 5312.0, 5625.0, 5686.0, 5281.0, 5260.0, 5269.0, 5592.0, 5581.0, 5650.0, 5509.0, 5628.0, 5379.0, 5458.0, 5479.0 (number of hits: 10)
29	5510	9	1	333	1	5309.0, 5296.0, 5491.0, 5708.0, 5266.0, 5498.0, 5589.0, 5585.0, 5287.0, 5278.0, 5270.0, 5712.0, 5450.0, 5317.0, 5656.0, 5696.0, 5689.0, 5427.0, 5276.0, 5691.0, 5497.0, 5318.0, 5473.0, 5488.0, 5657.0, 5435.0, 5284.0, 5256.0, 5600.0, 5679.0, 5259.0, 5461.0, 5505.0, 5536.0, 5277.0,

						5630.0, 5643.0, 5397.0, 5635.0, 5419.0, 5261.0, 5455.0, 5668.0, 5468.0, 5357.0, 5699.0, 5314.0, 5509.0, 5446.0, 5705.0, 5415.0, 5370.0, 5467.0, 5621.0, 5388.0, 5460.0, 5711.0, 5331.0, 5471.0, 5500.0, 5534.0, 5527.0, 5627.0, 5263.0, 5275.0, 5406.0, 5253.0, 5386.0, 5523.0, 5597.0, 5614.0, 5558.0, 5323.0, 5678.0, 5255.0, 5364.0, 5618.0, 5371.0, 5269.0, 5549.0, 5674.0, 5334.0, 5389.0, 5480.0, 5465.0, 5593.0, 5531.0, 5724.0, 5428.0, 5540.0, 5408.0, 5489.0, 5683.0, 5655.0, 5432.0, 5662.0, 5598.0, 5702.0, 5299.0, 5311.0 (number of hits: 7)
30	5510	9	1	333	1	5680.0, 5512.0, 5696.0, 5262.0, 5574.0, 5434.0, 5407.0, 5341.0, 5673.0, 5527.0, 5460.0, 5496.0, 5626.0, 5611.0, 5678.0, 5351.0, 5583.0, 5429.0, 5575.0, 5295.0, 5361.0, 5461.0, 5328.0, 5550.0, 5402.0, 5288.0, 5424.0, 5494.0, 5610.0, 5465.0, 5274.0, 5674.0, 5676.0, 5482.0, 5370.0, 5251.0, 5446.0, 5549.0, 5321.0, 5656.0, 5536.0, 5456.0, 5457.0, 5653.0, 5551.0, 5260.0, 5566.0, 5515.0, 5405.0, 5468.0, 5637.0, 5502.0, 5280.0, 5419.0, 5401.0, 5338.0, 5658.0, 5358.0, 5490.0, 5625.0, 5640.0, 5417.0, 5427.0, 5691.0, 5308.0, 5275.0, 5661.0, 5399.0, 5382.0, 5576.0, 5282.0, 5623.0, 5492.0, 5504.0, 5638.0, 5609.0, 5657.0, 5381.0, 5516.0, 5585.0, 5553.0, 5323.0, 5531.0, 5254.0, 5684.0, 5608.0, 5686.0, 5398.0, 5487.0, 5366.0, 5303.0, 5265.0, 5404.0, 5489.0, 5412.0, 5335.0, 5507.0, 5312.0, 5375.0, 5641.0 (number of hits: 10)

5530 MHz, 80 MHz Bandwidth

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1A/1B	30	96.7 %	60%	Pass
Type 2	30	93.3 %	60%	Pass
Type 3	30	86.7 %	60%	Pass
Type 4	30	76.7 %	60%	Pass
Aggregate (Type1 to 4)	120	88.4 %	80%	Pass
Type 5	30	100 %	80%	Pass
Type 6	30	96.7 %	70%	Pass

Please refer to the following statistical tables:

5530 MHz, 80 MHz Bandwidth

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

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5530	83	1	638	1
2	5530	67	1	798	1
3	5530	74	1	718	1
4	5530	63	1	838	1
5	5530	89	1	598	1
6	5492	70	1	758	1
7	5492	58	1	918	1
8	5492	76	1	698	1
9	5492	86	1	618	1
10	5492	72	1	738	1
11	5568	78	1	678	1
12	5568	99	1	538	1
13	5568	92	1	578	1
14	5568	62	1	858	1
15	5568	57	1	938	1
16	5530	63	1	845	1
17	5530	20	1	2719	1
18	5530	24	1	2286	1
19	5530	30	1	1766	1
20	5530	18	1	3034	0
21	5492	82	1	645	1
22	5492	83	1	643	1
23	5492	21	1	2525	1
24	5492	22	1	2464	1
25	5492	37	1	1465	1
26	5568	32	1	1652	1
27	5568	44	1	1219	1
28	5568	34	1	1578	1
29	5568	19	1	2923	1
30	5568	18	1	3026	1
Detection Percentage: 96.7 % (>60%)					

Table-2 Radar Type 2 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5530	24	5	188	1
2	5530	23	4.9	223	1
3	5530	25	1.8	180	1
4	5530	28	3.9	156	1
5	5530	23	3.5	209	1
6	5530	24	1.9	168	1
7	5530	28	4.4	181	1
8	5530	27	2.7	208	1
9	5530	23	1.6	196	1
10	5530	23	2.9	202	1
11	5492	26	4.6	155	1
12	5492	28	2.1	153	1
13	5492	23	1.4	150	1
14	5492	29	3.8	186	1
15	5492	23	2.1	164	1
16	5492	26	4.2	230	0
17	5492	28	3	224	1
18	5492	29	4.6	166	1
19	5492	28	3.9	224	1
20	5492	27	3.1	189	1
21	5568	28	2.6	176	1
22	5568	24	4.7	230	1
23	5568	24	1	214	1
24	5568	27	2.9	169	0
25	5568	26	1.1	193	1
26	5568	26	1.4	155	1
27	5568	23	4.7	158	1
28	5568	24	3.9	226	1
29	5568	28	3.3	159	1
30	5568	29	4.2	224	1
Detection Percentage: 93.3 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5530	16	6.4	431	1
2	5530	18	9	401	1
3	5530	16	9.8	458	0
4	5530	18	8.3	421	1
5	5530	18	8.8	256	1
6	5530	16	7.1	241	1
7	5530	18	7	252	1
8	5530	18	6.9	371	1
9	5530	17	7.6	346	1
10	5530	18	8.6	331	0
11	5492	18	7.8	257	1
12	5492	18	10	470	1
13	5492	18	9.3	386	0
14	5492	17	6.1	311	1
15	5492	16	9.4	233	1
16	5492	17	7.4	402	0
17	5492	16	6.6	323	1
18	5492	16	9.4	274	1
19	5492	16	8.7	225	1
20	5492	17	6.1	214	1
21	5568	17	6.1	225	1
22	5568	17	9	221	1
23	5568	18	7.6	270	1
24	5568	16	6.8	495	1
25	5568	18	7.2	455	1
26	5568	17	9.2	414	1
27	5568	18	6.9	249	1
28	5568	17	9.4	368	1
29	5568	16	7.8	411	1
30	5568	18	7.3	259	1
Detection Percentage: 86.7 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5530	15	17.8	383	1
2	5530	14	18.3	205	1
3	5530	12	12.6	266	1
4	5530	15	17.9	324	1
5	5530	14	19.5	328	1
6	5530	14	19.2	303	0
7	5530	12	13.5	496	0
8	5530	15	15.1	308	1
9	5530	14	14.9	352	1
10	5530	16	14.2	254	1
11	5492	15	11.7	284	1
12	5492	15	19.6	488	0
13	5492	15	17.3	326	0
14	5492	14	16.9	349	1
15	5492	12	18	296	0
16	5492	16	13.5	364	1
17	5492	12	11.1	328	1
18	5492	14	19.1	313	1
19	5492	12	16.6	470	1
20	5492	12	11.3	363	1
21	5568	13	16.4	431	1
22	5568	15	18.8	458	0
23	5568	16	18.8	357	0
24	5568	14	15.2	412	1
25	5568	14	13.2	284	1
26	5568	12	14.5	224	1
27	5568	14	16.8	311	1
28	5568	15	16.1	325	1
29	5568	16	12.2	407	1
30	5568	12	19.3	278	1
Detection Percentage: 76.7 % (>60%)					

Table-5 Radar Type 5 Statistical Performance

Trial #	Fc (MHz)	Detection (1:yes; 0:no)
1	5530	1
2	5530	1
3	5530	1
4	5530	1
5	5530	1
6	5530	1
7	5530	1
8	5530	1
9	5530	1
10	5530	1
11	5498.0	1
12	5498.4	1
13	5496.8	1
14	5498.8	1
15	5497.2	1
16	5496.8	1
17	5495.2	1
18	5495.6	1
19	5497.6	1
20	5494.0	1
21	5560.4	1
22	5560.4	1
23	5562.4	1
24	5560.8	1
25	5565.6	1
26	5565.2	1
27	5565.6	1
28	5562.8	1
29	5563.2	1
30	5562.4	1
Detection Percentage: 100 % (>80%)		

Bin5 Statistics 1

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	7	52.3	1222	-	0.639346	1
1	1	7	64	-	-	0.963758	
2	3	7	78.7	1899	1444	1.503202	
3	1	7	88.7	-	-	2.805603	
4	2	7	50.4	1818	-	3.499383	
5	3	7	81.5	1420	1139	3.622298	
6	2	7	63	1782	-	4.758135	
7	2	7	79.7	1031	-	5.142122	
8	3	7	99.3	1885	1162	5.855564	
9	2	7	54.6	1255	-	6.652793	
10	2	7	57.2	1392	-	7.62995	
11	3	7	92	1348	1479	7.782051	
12	2	7	94.3	1392	-	8.584712	
13	3	7	78.2	1747	1544	9.859501	
14	2	7	89	1408	-	9.984299	
15	3	7	82.4	1031	1804	11.045435	
16	1	7	89.6	-	-	11.688563	

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	10	88.3	1643	-	0.84926	1
1	2	10	95.6	1502	-	1.552528	
2	2	10	65.6	1959	-	2.773036	
3	1	10	60.2	-	-	4.296463	
4	2	10	83.8	1344	-	5.274388	
5	2	10	57.1	1671	-	5.769214	
6	3	10	59.9	1527	1959	7.420906	
7	2	10	87.5	1730	-	7.937674	
8	2	10	56.7	1662	-	9.634861	
9	2	10	79.7	1927	-	10.313715	
10	1	10	96.5	-	-	11.188201	

Bin5 Statistics 3

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	12	54.2	1380	1061	1.095955	1
1	3	12	72.7	1088	1927	1.707009	
2	3	12	58.4	1797	1607	3.374321	
3	2	12	76.3	1691	-	4.080822	
4	3	12	51.4	1778	1880	5.201995	
5	2	12	81	1613	-	6.713834	
6	2	12	67.4	1507	-	8.113694	
7	2	12	76.9	1502	-	9.051516	
8	1	12	59.9	-	-	9.818774	
9	2	12	72.8	1331	-	11.467774	

Bin5 Statistics 4

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	6	78.3	1829	1992	0.238737	1
1	3	6	90.3	1347	1617	0.62435	
2	2	6	53	1584	-	1.344184	
3	3	6	76.5	1804	1302	2.371324	
4	3	6	98.7	1909	1084	2.902103	
5	1	6	71.2	-	-	3.388145	
6	2	6	63.5	1980	-	3.957518	
7	2	6	77.2	1623	-	4.205268	
8	2	6	68.1	1393	-	4.851093	
9	2	6	58.4	1660	-	5.886393	
10	2	6	66.5	1156	-	6.507645	
11	2	6	77.6	1091	-	7.110802	
12	1	6	88.9	-	-	7.716441	
13	3	6	76.1	1726	1902	8.233902	
14	2	6	79.7	1015	-	8.41222	
15	2	6	79	1794	-	9.123372	
16	2	6	67.7	1432	-	9.915812	
17	2	6	78.6	1375	-	10.364099	
18	2	6	77.2	1590	-	11.270812	
19	3	6	65.4	1089	1137	11.837542	

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	15	76.1	-	-	0.922836	1
1	2	15	78.1	1061	-	2.369519	
2	2	15	59.8	1094	-	3.505245	
3	3	15	71.3	1763	1795	4.484897	
4	1	15	99	-	-	5.844929	
5	1	15	54.3	-	-	6.419212	
6	3	15	99.9	1399	1951	7.387008	
7	3	15	57.4	1782	1514	9.355329	
8	2	15	74.9	1279	-	10.572299	
9	2	15	70.1	1906	-	11.217636	

Bin5 Statistics 6

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	9	55.2	-	-	0.419901	1
1	2	9	88.6	1297	-	1.97919	
2	2	9	85.9	1999	-	3.049529	
3	1	9	84.9	-	-	4.612752	
4	2	9	91	1992	-	4.877979	
5	2	9	74.7	1075	-	7.164938	
6	2	9	80.9	1023	-	7.427463	
7	2	9	71.2	1946	-	9.067209	
8	2	9	76.1	1858	-	10.132593	
9	1	9	66.5	-	-	11.679098	

Bin5 Statistics 7

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	15	94.7	-	-	0.573329	1
1	2	15	77.2	1436	-	0.773756	
2	2	15	66.8	1901	-	1.68246	
3	2	15	80.6	1070	-	2.457126	
4	1	15	70.1	-	-	3.243818	
5	3	15	63.4	1355	1896	3.739242	
6	3	15	68.3	1393	1658	4.349186	
7	2	15	65.7	1190	-	4.703243	
8	2	15	92.2	1863	-	5.829764	
9	1	15	71.3	-	-	6.345958	
10	2	15	95	1711	-	6.850514	
11	2	15	61.9	1044	-	7.519622	
12	3	15	89	1873	1615	8.292075	
13	3	15	77.6	1204	1447	8.788377	
14	3	15	65.9	1201	1201	9.871192	
15	2	15	98.2	1018	-	10.32209	
16	3	15	59.5	1162	1142	10.685118	
17	2	15	94.1	1408	-	11.587567	

Bin5 Statistics 8

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	6	97	1866	1733	0.712517	1
1	3	6	92.8	1843	1158	1.167896	
2	1	6	88.6	-	-	2.522439	
3	2	6	94.2	1395	-	3.494019	
4	2	6	69.6	1827	-	3.955963	
5	2	6	65.5	1405	-	4.855217	
6	1	6	98.6	-	-	6.29418	
7	3	6	77.4	1470	1581	7.230219	
8	1	6	50.2	-	-	7.737879	
9	2	6	81.7	1983	-	8.467655	
10	1	6	62.2	-	-	9.501585	
11	2	6	85.9	1059	-	10.911506	
12	3	6	87.2	1746	1510	11.077003	

Bin5 Statistics 9

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	7	83.6	1048	1843	0.077996	
1	1	7	90.5	-	-	1.235793	
2	3	7	56.7	1129	1532	1.791945	
3	2	7	70.6	1169	-	2.206005	
4	1	7	87.4	-	-	2.814782	
5	2	7	90.9	1669	-	3.612854	
6	2	7	83.7	1443	-	4.310102	
7	1	7	57.5	-	-	4.592128	
8	2	7	99.7	1295	-	5.478529	
9	2	7	88.2	1377	-	5.816629	1
10	1	7	61.5	-	-	6.939588	
11	3	7	88.5	1040	1025	7.326029	
12	2	7	59.1	1482	-	7.91381	
13	2	7	83.8	1249	-	8.328244	
14	2	7	92.1	1940	-	9.05244	
15	1	7	88.9	-	-	9.935598	
16	2	7	86.7	1677	-	10.249925	
17	1	7	90.6	-	-	11.017924	
18	3	7	92.5	1381	1927	11.502062	

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	9	80.4	1366	-	0.707729	
1	2	9	61.3	1514	-	1.000292	
2	3	9	80.8	1365	1961	1.919519	
3	3	9	90.2	1918	1041	3.156821	
4	1	9	55.7	-	-	4.433804	
5	2	9	56	1996	-	4.748613	
6	2	9	88.6	1154	-	6.254126	1
7	2	9	86.4	1627	-	6.73444	
8	3	9	58.5	1441	1408	7.45849	
9	3	9	85.3	1177	1397	8.521179	
10	1	9	54	-	-	9.847619	
11	2	9	53.9	1428	-	10.767296	
12	1	9	50.9	-	-	11.207014	

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	15	99.4	1123	-	0.532587	1
1	3	15	71.2	1910	1409	1.126152	
2	1	15	54.5	-	-	2.548617	
3	1	15	66.3	-	-	3.175835	
4	1	15	62.7	-	-	4.771269	
5	1	15	68.8	-	-	5.033212	
6	3	15	53.6	1767	1756	6.108854	
7	2	15	81.1	1393	-	7.326342	
8	3	15	98.9	1738	1560	8.296455	
9	2	15	90.8	1798	-	9.934886	
10	3	15	93	1788	1140	10.124568	
11	2	15	51.7	1744	-	11.950056	

Bin5 Statistics 12

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	16	78.9	1133	-	0.694879	1
1	2	16	50.2	1942	-	1.257758	
2	1	16	58.4	-	-	2.154058	
3	2	16	56.2	1655	-	2.815872	
4	1	16	53	-	-	3.408763	
5	3	16	74.7	1651	1127	4.78594	
6	2	16	68.6	1242	-	4.940383	
7	2	16	55.7	1633	-	5.949481	
8	2	16	82.9	1347	-	6.639924	
9	1	16	72.3	-	-	7.63515	
10	2	16	61.3	1938	-	8.637648	
11	3	16	95	1789	1653	8.920253	
12	1	16	52.5	-	-	10.225074	
13	2	16	50.5	1687	-	10.622206	
14	3	16	93.6	1192	1675	11.740527	

Bin5 Statistics 13

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	12	76.1	-	-	0.153407	1
1	1	12	87.4	-	-	1.346492	
2	2	12	66.3	1326	-	1.782956	
3	2	12	50.1	1295	-	2.502517	
4	2	12	52.3	1001	-	3.980061	
5	1	12	98.9	-	-	4.196755	
6	2	12	99.6	1476	-	5.266686	
7	3	12	70.8	1450	1769	6.197902	
8	2	12	89	1313	-	7.111463	
9	1	12	76.4	-	-	7.244161	
10	3	12	50.4	1004	1389	8.207442	
11	1	12	92.6	-	-	8.939776	
12	1	12	86.4	-	-	9.711464	
13	3	12	89.1	1295	1793	10.417984	
14	3	12	87	1466	1216	11.293517	

Bin5 Statistics 14

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	17	51.3	1290	1425	0.736297	1
1	2	17	71.4	1063	-	2.218243	
2	2	17	90.2	1252	-	3.522509	
3	3	17	60.5	1223	1467	3.610552	
4	1	17	75.5	-	-	5.462691	
5	3	17	58	1396	1095	6.911704	
6	2	17	59.9	1678	-	7.935154	
7	1	17	78.5	-	-	8.800596	
8	1	17	81.7	-	-	9.918636	
9	3	17	83.4	1347	1052	11.595307	

Bin5 Statistics 15

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	13	67.6	1511	-	0.130096	1
1	2	13	57.9	1216	-	1.627526	
2	3	13	53.6	1203	1994	2.242239	
3	2	13	59.3	1722	-	3.84641	
4	2	13	56.1	1416	-	4.272802	
5	3	13	53.3	1047	1521	5.670232	
6	1	13	55.7	-	-	6.669273	
7	1	13	64.8	-	-	7.241248	
8	3	13	74.4	1405	1960	8.781321	
9	2	13	85.2	1952	-	9.981398	
10	2	13	58.1	1028	-	10.679999	
11	1	13	67	-	-	11.473153	

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	12	71.3	1315	-	0.615456	1
1	2	12	72.6	1150	-	1.306107	
2	1	12	52.7	-	-	2.603977	
3	3	12	72.9	1603	1774	3.223966	
4	2	12	67.4	1020	-	4.605361	
5	1	12	64.2	-	-	4.914551	
6	3	12	70.2	1075	1531	5.664832	
7	2	12	97.7	1144	-	6.835141	
8	1	12	56	-	-	7.902765	
9	3	12	98.4	1064	1919	8.881466	
10	3	12	63.6	1782	1592	10.002731	
11	1	12	87.9	-	-	10.940054	
12	1	12	70.2	-	-	11.330017	

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	73.6	1898	-	1.249112	1
1	2	8	94.9	1636	-	1.790475	
2	3	8	81.5	1267	1092	2.917996	
3	2	8	75.6	1312	-	4.192859	
4	2	8	56.9	1305	-	6.343476	
5	2	8	69.1	1992	-	7.339259	
6	3	8	87.3	1512	1765	8.054793	
7	2	8	61.9	1794	-	10.078195	
8	2	8	90	1477	-	11.840295	

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	9	80.9	1516	-	0.141315	1
1	2	9	68.3	1089	-	1.628884	
2	1	9	80.8	-	-	3.040566	
3	3	9	86.2	1758	1647	4.168709	
4	3	9	56.4	1858	1151	5.337949	
5	1	9	84.6	-	-	7.982596	
6	1	9	98.6	-	-	9.200358	
7	3	9	97.9	1069	1958	9.64825	
8	3	9	98.8	1818	1324	11.484113	

Bin5 Statistics 19

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	14	72.7	1204	-	0.581235	
1	2	14	54.1	1999	-	0.815138	
2	2	14	69.1	1660	-	1.552504	
3	2	14	61.2	1804	-	2.002321	
4	1	14	71.8	-	-	2.883535	
5	3	14	90	1949	1442	3.332615	
6	2	14	76.6	1880	-	3.888125	
7	3	14	97.3	1884	1987	4.891926	
8	3	14	59.1	1429	1621	5.538698	
9	1	14	75.8	-	-	5.97869	1
10	2	14	54.4	1514	-	6.324784	
11	3	14	96.1	1782	1241	6.973576	
12	1	14	54.5	-	-	7.862427	
13	1	14	85.7	-	-	8.640045	
14	3	14	55.2	1299	1091	8.867247	
15	2	14	74.3	1318	-	9.887944	
16	1	14	89.2	-	-	10.348373	
17	2	14	55.5	1688	-	10.814796	
18	1	14	77.4	-	-	11.696915	

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	5	92.9	1919	-	0.617027	
1	1	5	70	-	-	0.745161	
2	2	5	63.9	1265	-	1.456939	
3	2	5	75.4	1424	-	1.907006	
4	1	5	73.6	-	-	2.981275	
5	2	5	55	1422	-	3.519983	
6	2	5	74.9	1592	-	4.414911	
7	2	5	58	1381	-	4.528697	
8	1	5	58.5	-	-	5.564859	
9	3	5	89.5	1011	1095	6.18306	1
10	2	5	80.8	1725	-	6.718659	
11	2	5	58.3	1377	-	7.256497	
12	3	5	67.2	1489	1396	7.931381	
13	1	5	76	-	-	8.333848	
14	1	5	58.9	-	-	9.100552	
15	2	5	98.5	1372	-	9.882224	
16	2	5	66.4	1647	-	10.114591	
17	2	5	95.2	1166	-	11.110163	
18	3	5	77.7	1230	1671	11.485605	

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	19	83	1267	1585	0.366007	1
1	1	19	95.3	-	-	0.976101	
2	2	19	59	1397	-	1.745305	
3	2	19	79.7	1356	-	2.368937	
4	1	19	78.1	-	-	2.831281	
5	2	19	79	1108	-	3.618389	
6	2	19	88.7	1739	-	4.350244	
7	3	19	95.1	1993	1494	4.816466	
8	2	19	53.2	1609	-	5.788169	
9	2	19	57.4	1903	-	6.412731	
10	3	19	62.8	1743	1128	6.991074	
11	3	19	61.8	1887	1891	7.545427	
12	2	19	84.7	1430	-	8.34394	
13	2	19	63.1	1020	-	9.315629	
14	1	19	79.7	-	-	9.499884	
15	3	19	85	1659	1239	10.409778	
16	2	19	85.6	1666	-	10.710839	
17	1	19	86.3	-	-	11.520782	

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	19	55.1	-	-	0.710091	1
1	2	19	62	1231	-	1.321837	
2	3	19	98.3	1027	1092	1.588838	
3	2	19	61.5	1867	-	2.337246	
4	1	19	91.3	-	-	3.560825	
5	1	19	93.8	-	-	3.812444	
6	3	19	81.2	1935	1963	4.849399	
7	3	19	84	1760	1446	5.892579	
8	2	19	79.8	1154	-	6.067702	
9	2	19	99.4	1446	-	7.010886	
10	3	19	52.8	1484	1612	8.173882	
11	2	19	91	1837	-	8.68898	
12	3	19	50.9	1629	1258	9.214067	
13	2	19	59.9	1533	-	9.822084	
14	3	19	72.5	1882	1442	10.572948	
15	3	19	53.9	1493	1362	11.398289	

Bin5 Statistics 23

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	14	57.7	1863	-	0.083437	
1	2	14	80.1	1079	-	0.795206	
2	2	14	96.4	1441	-	1.647071	
3	2	14	74.7	1805	-	2.515431	
4	3	14	93.2	1112	1204	3.364903	
5	2	14	85.8	1715	-	4.118036	
6	3	14	88.3	1062	1852	4.791094	
7	2	14	94.2	1993	-	5.339714	
8	3	14	53.5	1559	1605	5.98016	1
9	2	14	62.1	1111	-	6.542869	
10	3	14	92.1	1760	1932	7.423984	
11	1	14	75.3	-	-	7.980654	
12	3	14	55	1741	1653	8.665312	
13	2	14	66.4	1201	-	9.379071	
14	2	14	83.6	1698	-	9.931182	
15	2	14	96.3	1999	-	11.053157	
16	3	14	85.2	1016	1716	11.725864	

Bin5 Statistics 24

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	18	96.2	1868	-	0.658602	
1	1	18	63.4	-	-	0.98166	
2	2	18	77.2	1205	-	1.955146	
3	2	18	81.6	1445	-	2.797211	
4	2	18	98.3	1286	-	3.154897	
5	3	18	70.3	1307	1072	3.945619	
6	2	18	87.5	1989	-	4.260336	
7	1	18	73.9	-	-	5.406635	
8	1	18	96.7	-	-	6.050358	1
9	2	18	68	1331	-	6.396021	
10	3	18	63.1	1357	1459	7.065887	
11	3	18	80.7	1420	1533	8.388283	
12	3	18	80.3	1191	1785	9.045671	
13	2	18	62.6	1354	-	9.771812	
14	1	18	50.5	-	-	10.267833	
15	2	18	92	1749	-	10.857195	
16	3	18	94.4	1994	1783	11.406097	

Bin5 Statistics 25

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	6	52.1	1537	1199	0.323793	1
1	2	6	92.8	1781	-	0.97884	
2	2	6	73.6	1697	-	1.906814	
3	3	6	98.1	1894	1913	2.636208	
4	1	6	61.3	-	-	2.798497	
5	1	6	90.8	-	-	3.398049	
6	2	6	88.9	1851	-	4.041093	
7	2	6	79.1	1678	-	4.816312	
8	2	6	75	1633	-	5.705458	
9	1	6	88.3	-	-	6.418398	
10	3	6	99.4	1789	1286	6.86876	
11	1	6	60.9	-	-	7.42813	
12	1	6	86.3	-	-	8.466403	
13	1	6	52.8	-	-	8.673597	
14	3	6	84.2	1872	1782	9.462746	
15	3	6	74.2	1571	1269	10.348553	
16	1	6	95.3	-	-	10.820465	
17	3	6	82.2	1031	1114	11.513595	

Bin5 Statistics 26

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	7	59.9	1398	-	0.291443	1
1	1	7	93.3	-	-	1.087029	
2	3	7	57.7	1186	1153	2.357222	
3	1	7	66.1	-	-	2.988191	
4	2	7	71.4	1106	-	3.774319	
5	1	7	52.5	-	-	4.202736	
6	2	7	51.1	1840	-	4.949639	
7	3	7	70.7	1702	1334	5.627668	
8	2	7	65.5	1740	-	7.073586	
9	2	7	86.7	1143	-	7.979967	
10	2	7	50	1513	-	8.272187	
11	1	7	75.5	-	-	8.914123	
12	3	7	60	1680	1069	10.008484	
13	3	7	87.4	1335	1703	10.99336	
14	2	7	53.7	1290	-	11.640703	

Bin5 Statistics 27

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	6	92.5	1087	1986	0.285666	1
1	1	6	50.7	-	-	0.815476	
2	1	6	82.8	-	-	1.412695	
3	1	6	67.7	-	-	2.475745	
4	2	6	57.7	1827	-	3.20027	
5	2	6	81.1	1062	-	4.029144	
6	2	6	66.3	1982	-	4.279418	
7	1	6	58.9	-	-	5.480079	
8	2	6	79.8	1498	-	5.669436	
9	2	6	71.1	1610	-	6.682349	
10	1	6	66.7	-	-	7.760516	
11	2	6	77	1998	-	8.298682	
12	1	6	56.4	-	-	8.958225	
13	2	6	64.9	1055	-	9.250586	
14	3	6	60.5	1131	1272	10.400931	
15	2	6	96.5	1336	-	10.962905	
16	2	6	98.5	1340	-	11.333846	

Bin5 Statistics 28

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	13	74.9	1179	-	0.104586	1
1	2	13	61.9	1510	-	1.524364	
2	1	13	91.1	-	-	3.39083	
3	2	13	71.8	1908	-	5.556294	
4	2	13	69.6	1224	-	6.594561	
5	3	13	57.9	1976	1788	7.972619	
6	2	13	88.4	1547	-	9.76368	
7	2	13	77.2	1416	-	10.779652	

Bin5 Statistics 29

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	12	59.5	-	-	0.320247	1
1	2	12	55.8	1448	-	0.887999	
2	2	12	53.8	1631	-	2.464231	
3	1	12	95.5	-	-	2.956599	
4	2	12	80.6	1615	-	3.599534	
5	1	12	89.1	-	-	4.978999	
6	3	12	76.6	1059	1710	5.724871	
7	3	12	74.3	1168	1056	6.546299	
8	2	12	78.3	1814	-	7.500764	
9	1	12	58.5	-	-	7.884091	
10	2	12	76.1	1059	-	8.879317	
11	2	12	52.9	1542	-	10.182015	
12	1	12	66.1	-	-	11.006917	
13	2	12	70.9	1900	-	11.584639	

Bin5 Statistics 30

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	14	74.9	1194	1867	0.469509	1
1	2	14	58.8	1714	-	0.628168	
2	1	14	91	-	-	1.552858	
3	2	14	63.5	1874	-	2.227654	
4	2	14	91.6	1662	-	2.424204	
5	2	14	69.7	1792	-	3.208446	
6	3	14	59.2	1860	1836	3.690118	
7	2	14	56.8	1724	-	4.727649	
8	2	14	55.5	1700	-	5.073557	
9	2	14	80.6	1584	-	5.5019	
10	2	14	66.6	1571	-	6.471775	
11	3	14	79.1	1539	1450	6.769025	
12	2	14	53.8	1810	-	7.244701	
13	2	14	93.3	1899	-	8.281153	
14	2	14	68.4	1763	-	8.607322	
15	1	14	57.3	-	-	9.213973	
16	2	14	67.1	1075	-	9.616043	
17	3	14	69.6	1443	1161	10.69466	
18	1	14	97.6	-	-	10.956769	
19	2	14	61.1	1833	-	11.488938	

Table-6 Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)	Hopping Sequence
1	5530	9	1	333	1	5625.0, 5690.0, 5623.0, 5413.0, 5620.0, 5325.0, 5700.0, 5687.0, 5706.0, 5598.0, 5580.0, 5663.0, 5720.0, 5575.0, 5658.0, 5548.0, 5404.0, 5626.0, 5662.0, 5307.0, 5283.0, 5438.0, 5344.0, 5427.0, 5577.0, 5449.0, 5498.0, 5500.0, 5271.0, 5311.0, 5682.0, 5594.0, 5621.0, 5653.0, 5536.0, 5426.0, 5410.0, 5540.0, 5352.0, 5391.0, 5664.0, 5266.0, 5253.0, 5460.0, 5421.0, 5348.0, 5514.0, 5711.0, 5481.0, 5719.0, 5369.0, 5298.0, 5256.0, 5551.0, 5511.0, 5699.0, 5251.0, 5537.0, 5576.0, 5655.0, 5382.0, 5381.0, 5434.0, 5686.0, 5448.0, 5674.0, 5507.0, 5295.0, 5483.0, 5436.0, 5518.0, 5528.0, 5420.0, 5365.0, 5718.0, 5326.0, 5437.0, 5337.0, 5422.0, 5601.0, 5490.0, 5477.0, 5571.0, 5395.0, 5593.0, 5393.0, 5411.0, 5431.0, 5435.0, 5493.0, 5649.0, 5428.0, 5415.0, 5257.0, 5280.0, 5549.0, 5361.0, 5646.0, 5541.0, 5356.0 (number of hits: 15)
2	5530	9	1	333	1	5318.0, 5322.0, 5305.0, 5506.0, 5663.0, 5633.0, 5677.0, 5689.0, 5391.0, 5630.0, 5406.0, 5394.0, 5499.0, 5613.0, 5530.0, 5559.0, 5424.0, 5674.0, 5488.0, 5348.0, 5528.0, 5279.0, 5263.0, 5665.0, 5438.0, 5435.0, 5276.0, 5343.0, 5340.0, 5366.0, 5553.0, 5655.0, 5709.0, 5260.0, 5681.0, 5274.0, 5270.0, 5434.0, 5412.0, 5407.0, 5722.0, 5679.0, 5410.0, 5532.0, 5703.0, 5719.0, 5606.0, 5525.0, 5417.0, 5392.0, 5577.0, 5482.0, 5481.0, 5389.0, 5390.0, 5330.0, 5442.0, 5560.0, 5254.0, 5329.0, 5646.0, 5414.0, 5300.0, 5312.0, 5657.0, 5385.0, 5444.0, 5370.0, 5521.0, 5277.0, 5503.0, 5512.0, 5574.0, 5464.0, 5723.0, 5374.0, 5592.0, 5608.0, 5284.0, 5522.0, 5485.0, 5257.0, 5609.0, 5431.0, 5621.0, 5436.0, 5453.0, 5468.0, 5688.0, 5356.0, 5686.0, 5293.0, 5607.0, 5446.0, 5659.0, 5450.0, 5413.0, 5397.0, 5544.0, 5339.0 (number of hits: 14)
3	5530	9	1	333	1	5561.0, 5460.0, 5494.0, 5625.0, 5545.0, 5657.0, 5433.0, 5721.0, 5598.0, 5418.0, 5459.0, 5269.0, 5470.0, 5538.0, 5427.0, 5297.0, 5412.0, 5723.0, 5580.0, 5251.0, 5250.0, 5711.0, 5498.0, 5300.0, 5649.0, 5611.0, 5263.0, 5674.0, 5634.0, 5390.0, 5676.0, 5551.0, 5343.0, 5603.0, 5430.0, 5677.0, 5254.0, 5516.0, 5335.0, 5320.0, 5405.0, 5466.0, 5574.0, 5525.0, 5503.0, 5690.0, 5255.0, 5496.0, 5326.0, 5276.0, 5651.0, 5259.0, 5282.0, 5278.0, 5448.0, 5671.0, 5652.0, 5667.0, 5686.0, 5464.0,

						5695.0, 5528.0, 5421.0, 5347.0, 5594.0, 5575.0, 5604.0, 5571.0, 5377.0, 5641.0, 5358.0, 5590.0, 5389.0, 5688.0, 5663.0, 5642.0, 5615.0, 5550.0, 5491.0, 5564.0, 5428.0, 5359.0, 5557.0, 5587.0, 5387.0, 5425.0, 5346.0, 5699.0, 5345.0, 5381.0, 5349.0, 5484.0, 5626.0, 5541.0, 5639.0, 5678.0, 5669.0, 5386.0, 5482.0, 5423.0 (number of hits: 15)
4	5530	9	1	333	1	5281.0, 5270.0, 5566.0, 5595.0, 5538.0, 5690.0, 5274.0, 5496.0, 5648.0, 5704.0, 5368.0, 5312.0, 5313.0, 5519.0, 5536.0, 5382.0, 5693.0, 5494.0, 5592.0, 5473.0, 5706.0, 5491.0, 5502.0, 5324.0, 5367.0, 5475.0, 5376.0, 5548.0, 5339.0, 5623.0, 5655.0, 5696.0, 5574.0, 5396.0, 5355.0, 5715.0, 5412.0, 5260.0, 5419.0, 5386.0, 5468.0, 5320.0, 5621.0, 5559.0, 5695.0, 5434.0, 5418.0, 5624.0, 5576.0, 5600.0, 5482.0, 5411.0, 5510.0, 5251.0, 5553.0, 5571.0, 5307.0, 5385.0, 5588.0, 5717.0, 5402.0, 5283.0, 5289.0, 5567.0, 5513.0, 5341.0, 5585.0, 5552.0, 5463.0, 5522.0, 5272.0, 5405.0, 5638.0, 5626.0, 5381.0, 5675.0, 5410.0, 5400.0, 5580.0, 5441.0, 5481.0, 5263.0, 5452.0, 5462.0, 5515.0, 5366.0, 5438.0, 5682.0, 5554.0, 5583.0, 5391.0, 5430.0, 5641.0, 5395.0, 5578.0, 5520.0, 5625.0, 5575.0, 5269.0, 5699.0 (number of hits: 18)
5	5530	9	1	333	1	5438.0, 5399.0, 5321.0, 5362.0, 5457.0, 5584.0, 5455.0, 5270.0, 5591.0, 5444.0, 5423.0, 5562.0, 5358.0, 5397.0, 5542.0, 5501.0, 5681.0, 5633.0, 5497.0, 5608.0, 5711.0, 5442.0, 5454.0, 5314.0, 5374.0, 5632.0, 5485.0, 5295.0, 5554.0, 5668.0, 5440.0, 5391.0, 5478.0, 5267.0, 5666.0, 5398.0, 5483.0, 5657.0, 5672.0, 5327.0, 5462.0, 5336.0, 5271.0, 5278.0, 5479.0, 5407.0, 5465.0, 5496.0, 5333.0, 5380.0, 5269.0, 5375.0, 5549.0, 5629.0, 5602.0, 5252.0, 5622.0, 5287.0, 5343.0, 5400.0, 5489.0, 5293.0, 5468.0, 5328.0, 5623.0, 5477.0, 5379.0, 5360.0, 5659.0, 5710.0, 5716.0, 5449.0, 5548.0, 5553.0, 5618.0, 5264.0, 5412.0, 5279.0, 5677.0, 5552.0, 5447.0, 5277.0, 5513.0, 5255.0, 5354.0, 5573.0, 5590.0, 5429.0, 5557.0, 5341.0, 5432.0, 5323.0, 5382.0, 5388.0, 5689.0, 5404.0, 5317.0, 5425.0, 5372.0, 5570.0 (number of hits: 12)
6	5530	9	1	333	1	5344.0, 5303.0, 5267.0, 5496.0, 5451.0, 5609.0, 5362.0, 5391.0, 5269.0, 5390.0, 5703.0, 5396.0, 5465.0, 5521.0, 5293.0, 5392.0, 5495.0, 5462.0, 5685.0, 5327.0, 5654.0, 5569.0, 5591.0, 5644.0, 5422.0, 5530.0, 5616.0, 5446.0, 5649.0, 5557.0, 5513.0, 5467.0, 5295.0, 5464.0, 5299.0, 5618.0, 5385.0, 5578.0, 5335.0, 5602.0, 5540.0, 5421.0, 5523.0, 5478.0, 5454.0,

						5608.0, 5473.0, 5364.0, 5366.0, 5402.0, 5575.0, 5628.0, 5680.0, 5484.0, 5296.0, 5640.0, 5262.0, 5498.0, 5444.0, 5261.0, 5288.0, 5665.0, 5443.0, 5630.0, 5379.0, 5570.0, 5470.0, 5349.0, 5546.0, 5613.0, 5641.0, 5368.0, 5458.0, 5598.0, 5442.0, 5705.0, 5347.0, 5264.0, 5433.0, 5420.0, 5503.0, 5497.0, 5416.0, 5671.0, 5605.0, 5263.0, 5404.0, 5431.0, 5289.0, 5639.0, 5460.0, 5365.0, 5709.0, 5690.0, 5409.0, 5400.0, 5686.0, 5474.0, 5423.0, 5552.0 (number of hits: 13)
7	5530	9	1	333	1	5466.0, 5394.0, 5679.0, 5298.0, 5697.0, 5563.0, 5366.0, 5696.0, 5395.0, 5423.0, 5304.0, 5533.0, 5683.0, 5507.0, 5594.0, 5440.0, 5614.0, 5321.0, 5320.0, 5289.0, 5276.0, 5547.0, 5387.0, 5328.0, 5413.0, 5354.0, 5254.0, 5561.0, 5706.0, 5411.0, 5308.0, 5305.0, 5374.0, 5272.0, 5600.0, 5596.0, 5620.0, 5464.0, 5657.0, 5496.0, 5388.0, 5498.0, 5526.0, 5703.0, 5584.0, 5419.0, 5700.0, 5717.0, 5681.0, 5477.0, 5687.0, 5396.0, 5567.0, 5454.0, 5415.0, 5363.0, 5509.0, 5549.0, 5605.0, 5554.0, 5714.0, 5723.0, 5251.0, 5271.0, 5400.0, 5455.0, 5590.0, 5350.0, 5277.0, 5291.0, 5519.0, 5628.0, 5583.0, 5347.0, 5528.0, 5481.0, 5422.0, 5370.0, 5508.0, 5359.0, 5297.0, 5588.0, 5335.0, 5676.0, 5550.0, 5673.0, 5611.0, 5282.0, 5371.0, 5701.0, 5318.0, 5654.0, 5444.0, 5352.0, 5510.0, 5713.0, 5535.0, 5293.0, 5487.0, 5332.0 (number of hits: 18)
8	5530	9	1	333	1	5357.0, 5512.0, 5365.0, 5364.0, 5631.0, 5305.0, 5679.0, 5470.0, 5541.0, 5520.0, 5690.0, 5400.0, 5532.0, 5516.0, 5681.0, 5379.0, 5571.0, 5581.0, 5647.0, 5271.0, 5281.0, 5309.0, 5464.0, 5500.0, 5391.0, 5326.0, 5328.0, 5449.0, 5680.0, 5401.0, 5371.0, 5677.0, 5507.0, 5501.0, 5668.0, 5673.0, 5349.0, 5264.0, 5503.0, 5311.0, 5331.0, 5658.0, 5596.0, 5288.0, 5336.0, 5508.0, 5499.0, 5572.0, 5430.0, 5302.0, 5693.0, 5676.0, 5682.0, 5542.0, 5359.0, 5491.0, 5335.0, 5511.0, 5565.0, 5714.0, 5485.0, 5510.0, 5389.0, 5329.0, 5663.0, 5456.0, 5392.0, 5468.0, 5333.0, 5404.0, 5699.0, 5674.0, 5287.0, 5687.0, 5341.0, 5473.0, 5614.0, 5297.0, 5437.0, 5712.0, 5390.0, 5442.0, 5588.0, 5618.0, 5568.0, 5421.0, 5667.0, 5436.0, 5683.0, 5290.0, 5535.0, 5523.0, 5469.0, 5545.0, 5684.0, 5428.0, 5360.0, 5259.0, 5632.0, 5459.0 (number of hits: 18)
9	5530	9	1	333	1	5605.0, 5607.0, 5454.0, 5603.0, 5664.0, 5721.0, 5349.0, 5443.0, 5665.0, 5340.0, 5521.0, 5595.0, 5275.0, 5315.0, 5501.0, 5653.0, 5431.0, 5554.0, 5251.0, 5570.0, 5304.0, 5543.0, 5321.0, 5639.0, 5299.0, 5549.0, 5723.0, 5624.0, 5530.0, 5272.0,

						5292.0, 5403.0, 5619.0, 5423.0, 5683.0, 5430.0, 5661.0, 5310.0, 5287.0, 5408.0, 5393.0, 5263.0, 5612.0, 5522.0, 5391.0, 5420.0, 5294.0, 5545.0, 5516.0, 5339.0, 5464.0, 5716.0, 5313.0, 5602.0, 5295.0, 5447.0, 5478.0, 5548.0, 5634.0, 5557.0, 5495.0, 5671.0, 5500.0, 5437.0, 5563.0, 5318.0, 5470.0, 5380.0, 5567.0, 5366.0, 5650.0, 5594.0, 5429.0, 5583.0, 5640.0, 5695.0, 5369.0, 5307.0, 5633.0, 5401.0, 5309.0, 5341.0, 5370.0, 5402.0, 5267.0, 5651.0, 5718.0, 5714.0, 5266.0, 5465.0, 5283.0, 5330.0, 5406.0, 5632.0, 5422.0, 5655.0, 5483.0, 5706.0, 5643.0, 5289.0 (number of hits: 15)
10	5530	9	1	333	1	5316.0, 5552.0, 5461.0, 5339.0, 5309.0, 5635.0, 5679.0, 5599.0, 5683.0, 5473.0, 5571.0, 5417.0, 5375.0, 5435.0, 5613.0, 5469.0, 5475.0, 5318.0, 5495.0, 5645.0, 5494.0, 5711.0, 5519.0, 5693.0, 5279.0, 5322.0, 5512.0, 5416.0, 5547.0, 5627.0, 5646.0, 5713.0, 5607.0, 5329.0, 5331.0, 5516.0, 5596.0, 5446.0, 5407.0, 5604.0, 5559.0, 5379.0, 5394.0, 5328.0, 5640.0, 5399.0, 5721.0, 5568.0, 5459.0, 5545.0, 5364.0, 5471.0, 5530.0, 5300.0, 5420.0, 5509.0, 5283.0, 5716.0, 5333.0, 5298.0, 5661.0, 5287.0, 5501.0, 5527.0, 5451.0, 5395.0, 5704.0, 5303.0, 5358.0, 5280.0, 5346.0, 5332.0, 5616.0, 5504.0, 5674.0, 5354.0, 5594.0, 5463.0, 5421.0, 5436.0, 5472.0, 5324.0, 5313.0, 5351.0, 5625.0, 5663.0, 5352.0, 5276.0, 5365.0, 5588.0, 5614.0, 5680.0, 5485.0, 5349.0, 5361.0, 5393.0, 5624.0, 5563.0, 5376.0, 5487.0 (number of hits: 15)
11	5530	9	1	333	1	5440.0, 5576.0, 5657.0, 5674.0, 5474.0, 5688.0, 5410.0, 5512.0, 5481.0, 5488.0, 5584.0, 5663.0, 5404.0, 5610.0, 5518.0, 5466.0, 5329.0, 5339.0, 5335.0, 5298.0, 5633.0, 5670.0, 5374.0, 5618.0, 5614.0, 5722.0, 5497.0, 5493.0, 5275.0, 5600.0, 5685.0, 5563.0, 5569.0, 5390.0, 5656.0, 5401.0, 5549.0, 5372.0, 5261.0, 5623.0, 5659.0, 5508.0, 5527.0, 5534.0, 5502.0, 5624.0, 5540.0, 5264.0, 5403.0, 5643.0, 5412.0, 5607.0, 5503.0, 5429.0, 5602.0, 5341.0, 5648.0, 5437.0, 5323.0, 5621.0, 5678.0, 5606.0, 5683.0, 5475.0, 5699.0, 5417.0, 5315.0, 5422.0, 5716.0, 5276.0, 5409.0, 5443.0, 5561.0, 5554.0, 5559.0, 5687.0, 5556.0, 5370.0, 5482.0, 5319.0, 5280.0, 5567.0, 5529.0, 5478.0, 5268.0, 5411.0, 5498.0, 5394.0, 5336.0, 5456.0, 5495.0, 5274.0, 5278.0, 5579.0, 5380.0, 5328.0, 5570.0, 5255.0, 5669.0, 5431.0 (number of hits: 20)
12	5530	9	1	333	1	5382.0, 5431.0, 5523.0, 5354.0, 5621.0, 5698.0, 5407.0, 5573.0, 5591.0, 5362.0, 5294.0, 5519.0, 5534.0, 5527.0, 5316.0,

						5492.0, 5320.0, 5337.0, 5350.0, 5701.0, 5317.0, 5506.0, 5438.0, 5444.0, 5412.0, 5495.0, 5423.0, 5690.0, 5509.0, 5273.0, 5300.0, 5287.0, 5613.0, 5598.0, 5529.0, 5711.0, 5593.0, 5532.0, 5321.0, 5553.0, 5699.0, 5636.0, 5562.0, 5467.0, 5600.0, 5524.0, 5630.0, 5393.0, 5477.0, 5276.0, 5588.0, 5683.0, 5271.0, 5455.0, 5398.0, 5629.0, 5347.0, 5436.0, 5677.0, 5303.0, 5504.0, 5565.0, 5705.0, 5330.0, 5383.0, 5379.0, 5581.0, 5589.0, 5714.0, 5526.0, 5721.0, 5368.0, 5359.0, 5410.0, 5309.0, 5285.0, 5296.0, 5619.0, 5578.0, 5452.0, 5722.0, 5333.0, 5386.0, 5666.0, 5639.0, 5537.0, 5370.0, 5373.0, 5340.0, 5515.0, 5694.0, 5310.0, 5521.0, 5328.0, 5315.0, 5425.0, 5413.0, 5494.0, 5665.0, 5402.0 (number of hits: 20)
13	5530	9	1	333	1	5397.0, 5660.0, 5668.0, 5550.0, 5395.0, 5605.0, 5709.0, 5471.0, 5529.0, 5377.0, 5292.0, 5658.0, 5327.0, 5473.0, 5386.0, 5565.0, 5284.0, 5571.0, 5533.0, 5637.0, 5551.0, 5472.0, 5289.0, 5373.0, 5459.0, 5455.0, 5272.0, 5685.0, 5432.0, 5443.0, 5601.0, 5643.0, 5586.0, 5465.0, 5375.0, 5582.0, 5599.0, 5629.0, 5521.0, 5547.0, 5683.0, 5632.0, 5277.0, 5405.0, 5496.0, 5645.0, 5462.0, 5590.0, 5406.0, 5316.0, 5579.0, 5484.0, 5556.0, 5408.0, 5580.0, 5549.0, 5625.0, 5511.0, 5296.0, 5358.0, 5264.0, 5720.0, 5283.0, 5451.0, 5639.0, 5519.0, 5578.0, 5300.0, 5394.0, 5410.0, 5700.0, 5614.0, 5418.0, 5670.0, 5517.0, 5483.0, 5315.0, 5434.0, 5715.0, 5552.0, 5613.0, 5687.0, 5718.0, 5716.0, 5422.0, 5688.0, 5270.0, 5413.0, 5546.0, 5527.0, 5526.0, 5506.0, 5345.0, 5656.0, 5504.0, 5704.0, 5340.0, 5653.0, 5500.0, 5622.0 (number of hits: 20)
14	5530	9	1	333	0	-
15	5530	9	1	333	1	5451.0, 5340.0, 5447.0, 5535.0, 5393.0, 5565.0, 5419.0, 5310.0, 5275.0, 5635.0, 5386.0, 5316.0, 5640.0, 5475.0, 5710.0, 5585.0, 5444.0, 5673.0, 5566.0, 5288.0, 5632.0, 5289.0, 5668.0, 5348.0, 5497.0, 5427.0, 5699.0, 5540.0, 5646.0, 5597.0, 5256.0, 5423.0, 5676.0, 5614.0, 5262.0, 5567.0, 5703.0, 5503.0, 5662.0, 5342.0, 5402.0, 5295.0, 5621.0, 5477.0, 5259.0, 5433.0, 5709.0, 5453.0, 5409.0, 5717.0, 5560.0, 5469.0, 5343.0, 5634.0, 5561.0, 5424.0, 5456.0, 5337.0, 5641.0, 5296.0, 5689.0, 5652.0, 5263.0, 5509.0, 5369.0, 5379.0, 5545.0, 5485.0, 5650.0, 5704.0, 5638.0, 5448.0, 5519.0, 5326.0, 5407.0, 5524.0, 5690.0, 5392.0, 5660.0, 5629.0, 5653.0, 5422.0, 5626.0, 5613.0, 5390.0, 5443.0, 5569.0, 5413.0, 5500.0, 5415.0, 5505.0, 5577.0, 5403.0, 5365.0, 5591.0, 5649.0, 5706.0, 5284.0, 5371.0, 5434.0

						(number of hits: 15)
16	5530	9	1	333	1	5255.0, 5343.0, 5494.0, 5378.0, 5276.0, 5711.0, 5615.0, 5499.0, 5487.0, 5317.0, 5548.0, 5281.0, 5367.0, 5318.0, 5468.0, 5408.0, 5540.0, 5549.0, 5712.0, 5447.0, 5553.0, 5353.0, 5718.0, 5480.0, 5467.0, 5331.0, 5428.0, 5707.0, 5397.0, 5609.0, 5641.0, 5351.0, 5477.0, 5599.0, 5593.0, 5669.0, 5278.0, 5314.0, 5703.0, 5464.0, 5600.0, 5484.0, 5604.0, 5537.0, 5514.0, 5357.0, 5647.0, 5432.0, 5412.0, 5356.0, 5580.0, 5388.0, 5666.0, 5535.0, 5430.0, 5503.0, 5573.0, 5305.0, 5273.0, 5662.0, 5608.0, 5462.0, 5293.0, 5688.0, 5426.0, 5619.0, 5635.0, 5631.0, 5720.0, 5663.0, 5363.0, 5260.0, 5520.0, 5261.0, 5645.0, 5441.0, 5413.0, 5617.0, 5683.0, 5653.0, 5546.0, 5424.0, 5272.0, 5638.0, 5280.0, 5532.0, 5613.0, 5483.0, 5694.0, 5490.0, 5559.0, 5375.0, 5303.0, 5256.0, 5591.0, 5525.0, 5299.0, 5677.0, 5400.0, 5624.0 (number of hits: 15)
17	5530	9	1	333	1	5705.0, 5551.0, 5326.0, 5284.0, 5482.0, 5414.0, 5539.0, 5514.0, 5502.0, 5718.0, 5505.0, 5360.0, 5491.0, 5298.0, 5282.0, 5388.0, 5647.0, 5458.0, 5314.0, 5260.0, 5397.0, 5419.0, 5485.0, 5387.0, 5293.0, 5256.0, 5393.0, 5424.0, 5555.0, 5623.0, 5399.0, 5251.0, 5507.0, 5717.0, 5426.0, 5643.0, 5336.0, 5470.0, 5343.0, 5306.0, 5278.0, 5455.0, 5302.0, 5618.0, 5452.0, 5720.0, 5379.0, 5588.0, 5479.0, 5338.0, 5499.0, 5439.0, 5597.0, 5594.0, 5355.0, 5317.0, 5474.0, 5339.0, 5560.0, 5271.0, 5672.0, 5535.0, 5542.0, 5633.0, 5294.0, 5503.0, 5273.0, 5416.0, 5274.0, 5484.0, 5556.0, 5324.0, 5592.0, 5303.0, 5648.0, 5692.0, 5661.0, 5509.0, 5525.0, 5373.0, 5405.0, 5612.0, 5301.0, 5515.0, 5287.0, 5531.0, 5290.0, 5335.0, 5423.0, 5574.0, 5447.0, 5634.0, 5704.0, 5527.0, 5644.0, 5258.0, 5565.0, 5611.0, 5415.0, 5371.0 (number of hits: 19)
18	5530	9	1	333	1	5492.0, 5557.0, 5476.0, 5651.0, 5637.0, 5671.0, 5332.0, 5691.0, 5698.0, 5403.0, 5256.0, 5562.0, 5515.0, 5650.0, 5444.0, 5552.0, 5548.0, 5325.0, 5544.0, 5694.0, 5669.0, 5474.0, 5371.0, 5621.0, 5607.0, 5329.0, 5567.0, 5274.0, 5663.0, 5565.0, 5615.0, 5344.0, 5608.0, 5294.0, 5629.0, 5711.0, 5446.0, 5338.0, 5687.0, 5334.0, 5456.0, 5313.0, 5715.0, 5473.0, 5675.0, 5642.0, 5679.0, 5619.0, 5558.0, 5360.0, 5302.0, 5718.0, 5432.0, 5257.0, 5528.0, 5261.0, 5299.0, 5549.0, 5609.0, 5361.0, 5448.0, 5347.0, 5372.0, 5290.0, 5478.0, 5635.0, 5437.0, 5385.0, 5573.0, 5357.0, 5379.0, 5336.0, 5623.0, 5487.0, 5695.0, 5680.0, 5258.0, 5593.0, 5495.0, 5551.0, 5400.0, 5604.0, 5457.0, 5381.0, 5482.0,

						5640.0, 5442.0, 5531.0, 5345.0, 5275.0, 5341.0, 5430.0, 5374.0, 5479.0, 5586.0, 5538.0, 5449.0, 5660.0, 5574.0, 5588.0 (number of hits: 16)
19	5530	9	1	333	1	5336.0, 5350.0, 5395.0, 5631.0, 5603.0, 5273.0, 5447.0, 5478.0, 5385.0, 5597.0, 5573.0, 5315.0, 5277.0, 5453.0, 5692.0, 5549.0, 5543.0, 5648.0, 5469.0, 5363.0, 5454.0, 5593.0, 5682.0, 5582.0, 5435.0, 5339.0, 5468.0, 5703.0, 5676.0, 5284.0, 5269.0, 5474.0, 5705.0, 5708.0, 5678.0, 5323.0, 5662.0, 5298.0, 5591.0, 5296.0, 5443.0, 5295.0, 5262.0, 5695.0, 5386.0, 5497.0, 5320.0, 5358.0, 5564.0, 5346.0, 5261.0, 5398.0, 5643.0, 5264.0, 5467.0, 5281.0, 5617.0, 5533.0, 5688.0, 5685.0, 5408.0, 5542.0, 5420.0, 5656.0, 5326.0, 5434.0, 5257.0, 5524.0, 5255.0, 5689.0, 5477.0, 5616.0, 5652.0, 5378.0, 5570.0, 5517.0, 5536.0, 5706.0, 5613.0, 5535.0, 5480.0, 5301.0, 5428.0, 5473.0, 5330.0, 5379.0, 5553.0, 5522.0, 5555.0, 5356.0, 5558.0, 5426.0, 5422.0, 5442.0, 5267.0, 5466.0, 5588.0, 5537.0, 5272.0, 5343.0 (number of hits: 15)
20	5530	9	1	333	1	5296.0, 5714.0, 5366.0, 5448.0, 5497.0, 5576.0, 5272.0, 5588.0, 5287.0, 5307.0, 5437.0, 5693.0, 5719.0, 5517.0, 5388.0, 5419.0, 5663.0, 5414.0, 5648.0, 5705.0, 5488.0, 5360.0, 5699.0, 5600.0, 5321.0, 5357.0, 5361.0, 5372.0, 5382.0, 5679.0, 5717.0, 5636.0, 5415.0, 5700.0, 5394.0, 5555.0, 5573.0, 5427.0, 5337.0, 5292.0, 5675.0, 5494.0, 5411.0, 5583.0, 5711.0, 5479.0, 5254.0, 5630.0, 5559.0, 5671.0, 5436.0, 5515.0, 5585.0, 5707.0, 5278.0, 5333.0, 5507.0, 5284.0, 5442.0, 5680.0, 5524.0, 5325.0, 5567.0, 5637.0, 5341.0, 5398.0, 5352.0, 5408.0, 5312.0, 5383.0, 5691.0, 5379.0, 5721.0, 5295.0, 5285.0, 5354.0, 5301.0, 5452.0, 5528.0, 5365.0, 5501.0, 5558.0, 5713.0, 5459.0, 5410.0, 5582.0, 5664.0, 5265.0, 5564.0, 5695.0, 5266.0, 5364.0, 5282.0, 5702.0, 5327.0, 5328.0, 5518.0, 5545.0, 5270.0, 5491.0 (number of hits: 15)
21	5530	9	1	333	1	5666.0, 5646.0, 5458.0, 5504.0, 5495.0, 5446.0, 5637.0, 5656.0, 5269.0, 5519.0, 5505.0, 5445.0, 5397.0, 5351.0, 5605.0, 5430.0, 5361.0, 5614.0, 5308.0, 5456.0, 5294.0, 5481.0, 5653.0, 5333.0, 5597.0, 5370.0, 5622.0, 5404.0, 5486.0, 5407.0, 5444.0, 5640.0, 5606.0, 5713.0, 5257.0, 5318.0, 5362.0, 5254.0, 5604.0, 5345.0, 5314.0, 5367.0, 5568.0, 5536.0, 5647.0, 5679.0, 5642.0, 5352.0, 5422.0, 5264.0, 5350.0, 5550.0, 5394.0, 5277.0, 5473.0, 5311.0, 5704.0, 5376.0, 5453.0, 5484.0, 5523.0, 5275.0, 5678.0, 5343.0, 5691.0, 5439.0, 5544.0, 5669.0, 5490.0, 5686.0,

						5334.0, 5626.0, 5312.0, 5515.0, 5685.0, 5378.0, 5313.0, 5467.0, 5499.0, 5718.0, 5469.0, 5449.0, 5255.0, 5450.0, 5508.0, 5319.0, 5332.0, 5671.0, 5494.0, 5480.0, 5402.0, 5506.0, 5323.0, 5410.0, 5583.0, 5462.0, 5336.0, 5579.0, 5315.0, 5565.0 (number of hits: 14)
22	5530	9	1	333	1	5302.0, 5509.0, 5587.0, 5446.0, 5392.0, 5376.0, 5538.0, 5355.0, 5649.0, 5714.0, 5289.0, 5566.0, 5371.0, 5336.0, 5442.0, 5461.0, 5636.0, 5466.0, 5576.0, 5673.0, 5712.0, 5281.0, 5619.0, 5704.0, 5599.0, 5359.0, 5325.0, 5455.0, 5454.0, 5520.0, 5625.0, 5686.0, 5299.0, 5310.0, 5537.0, 5314.0, 5385.0, 5620.0, 5602.0, 5255.0, 5586.0, 5434.0, 5530.0, 5462.0, 5581.0, 5593.0, 5350.0, 5644.0, 5715.0, 5283.0, 5262.0, 5557.0, 5666.0, 5698.0, 5561.0, 5405.0, 5635.0, 5335.0, 5676.0, 5295.0, 5658.0, 5440.0, 5354.0, 5695.0, 5652.0, 5415.0, 5648.0, 5570.0, 5518.0, 5480.0, 5560.0, 5535.0, 5447.0, 5638.0, 5514.0, 5307.0, 5549.0, 5567.0, 5487.0, 5368.0, 5578.0, 5481.0, 5373.0, 5532.0, 5409.0, 5533.0, 5546.0, 5681.0, 5550.0, 5701.0, 5597.0, 5339.0, 5684.0, 5341.0, 5329.0, 5260.0, 5346.0, 5418.0, 5596.0, 5645.0 (number of hits: 18)
23	5530	9	1	333	1	5316.0, 5415.0, 5687.0, 5499.0, 5259.0, 5559.0, 5400.0, 5264.0, 5381.0, 5392.0, 5624.0, 5353.0, 5593.0, 5510.0, 5500.0, 5569.0, 5280.0, 5488.0, 5484.0, 5497.0, 5295.0, 5319.0, 5678.0, 5618.0, 5512.0, 5431.0, 5275.0, 5615.0, 5697.0, 5463.0, 5257.0, 5326.0, 5585.0, 5260.0, 5560.0, 5707.0, 5456.0, 5596.0, 5584.0, 5579.0, 5317.0, 5634.0, 5599.0, 5613.0, 5680.0, 5444.0, 5628.0, 5432.0, 5693.0, 5328.0, 5253.0, 5309.0, 5701.0, 5285.0, 5590.0, 5437.0, 5592.0, 5445.0, 5578.0, 5530.0, 5368.0, 5574.0, 5429.0, 5709.0, 5657.0, 5387.0, 5546.0, 5719.0, 5268.0, 5711.0, 5649.0, 5660.0, 5605.0, 5632.0, 5382.0, 5535.0, 5536.0, 5379.0, 5414.0, 5623.0, 5380.0, 5324.0, 5669.0, 5362.0, 5440.0, 5327.0, 5273.0, 5477.0, 5347.0, 5276.0, 5629.0, 5539.0, 5470.0, 5506.0, 5509.0, 5597.0, 5547.0, 5397.0, 5265.0, 5434.0 (number of hits: 15)
24	5530	9	1	333	1	5342.0, 5567.0, 5476.0, 5323.0, 5667.0, 5373.0, 5411.0, 5321.0, 5494.0, 5440.0, 5438.0, 5517.0, 5504.0, 5423.0, 5268.0, 5619.0, 5425.0, 5348.0, 5639.0, 5416.0, 5338.0, 5282.0, 5482.0, 5319.0, 5690.0, 5571.0, 5701.0, 5300.0, 5607.0, 5538.0, 5613.0, 5274.0, 5259.0, 5641.0, 5692.0, 5297.0, 5514.0, 5622.0, 5470.0, 5289.0, 5551.0, 5450.0, 5439.0, 5367.0, 5284.0, 5322.0, 5510.0, 5460.0, 5469.0, 5558.0, 5316.0, 5506.0, 5462.0, 5590.0, 5318.0,

						5407.0, 5442.0, 5610.0, 5676.0, 5324.0, 5326.0, 5549.0, 5720.0, 5421.0, 5263.0, 5371.0, 5255.0, 5710.0, 5515.0, 5315.0, 5392.0, 5651.0, 5715.0, 5488.0, 5264.0, 5258.0, 5378.0, 5363.0, 5443.0, 5385.0, 5601.0, 5276.0, 5464.0, 5526.0, 5681.0, 5356.0, 5620.0, 5493.0, 5498.0, 5365.0, 5410.0, 5640.0, 5296.0, 5547.0, 5376.0, 5638.0, 5512.0, 5485.0, 5372.0, 5713.0 (number of hits: 17)
25	5530	9	1	333	1	5280.0, 5465.0, 5375.0, 5321.0, 5319.0, 5562.0, 5372.0, 5497.0, 5649.0, 5492.0, 5627.0, 5509.0, 5481.0, 5323.0, 5476.0, 5536.0, 5488.0, 5446.0, 5253.0, 5335.0, 5659.0, 5657.0, 5434.0, 5478.0, 5717.0, 5300.0, 5583.0, 5577.0, 5614.0, 5291.0, 5366.0, 5508.0, 5265.0, 5608.0, 5353.0, 5673.0, 5418.0, 5264.0, 5652.0, 5362.0, 5283.0, 5620.0, 5281.0, 5338.0, 5511.0, 5379.0, 5390.0, 5682.0, 5530.0, 5720.0, 5535.0, 5395.0, 5304.0, 5326.0, 5363.0, 5355.0, 5346.0, 5286.0, 5691.0, 5427.0, 5270.0, 5344.0, 5681.0, 5499.0, 5565.0, 5250.0, 5602.0, 5461.0, 5616.0, 5519.0, 5278.0, 5341.0, 5654.0, 5387.0, 5722.0, 5662.0, 5423.0, 5532.0, 5514.0, 5555.0, 5552.0, 5480.0, 5302.0, 5422.0, 5413.0, 5402.0, 5271.0, 5579.0, 5273.0, 5378.0, 5431.0, 5255.0, 5701.0, 5635.0, 5369.0, 5506.0, 5606.0, 5414.0, 5642.0, 5252.0 (number of hits: 17)
26	5530	9	1	333	1	5629.0, 5487.0, 5277.0, 5606.0, 5569.0, 5713.0, 5454.0, 5288.0, 5565.0, 5489.0, 5358.0, 5364.0, 5411.0, 5707.0, 5441.0, 5382.0, 5638.0, 5687.0, 5467.0, 5466.0, 5641.0, 5571.0, 5301.0, 5497.0, 5472.0, 5651.0, 5303.0, 5379.0, 5636.0, 5421.0, 5494.0, 5693.0, 5274.0, 5607.0, 5256.0, 5390.0, 5352.0, 5317.0, 5493.0, 5325.0, 5368.0, 5530.0, 5700.0, 5650.0, 5331.0, 5621.0, 5482.0, 5370.0, 5294.0, 5361.0, 5684.0, 5679.0, 5402.0, 5387.0, 5281.0, 5523.0, 5254.0, 5701.0, 5316.0, 5619.0, 5435.0, 5479.0, 5443.0, 5468.0, 5449.0, 5722.0, 5261.0, 5384.0, 5576.0, 5314.0, 5627.0, 5614.0, 5405.0, 5264.0, 5632.0, 5709.0, 5491.0, 5360.0, 5579.0, 5431.0, 5327.0, 5318.0, 5311.0, 5480.0, 5255.0, 5642.0, 5484.0, 5490.0, 5475.0, 5675.0, 5633.0, 5345.0, 5251.0, 5378.0, 5670.0, 5602.0, 5620.0, 5440.0, 5465.0, 5257.0 (number of hits: 6)
27	5530	9	1	333	1	5287.0, 5689.0, 5632.0, 5288.0, 5552.0, 5377.0, 5662.0, 5411.0, 5324.0, 5270.0, 5303.0, 5514.0, 5587.0, 5586.0, 5493.0, 5685.0, 5545.0, 5645.0, 5611.0, 5605.0, 5444.0, 5447.0, 5390.0, 5284.0, 5509.0, 5557.0, 5496.0, 5564.0, 5541.0, 5392.0, 5313.0, 5363.0, 5349.0, 5348.0, 5480.0, 5373.0, 5642.0, 5664.0, 5466.0, 5567.0,

						5391.0, 5699.0, 5275.0, 5311.0, 5522.0, 5450.0, 5618.0, 5337.0, 5672.0, 5492.0, 5698.0, 5381.0, 5491.0, 5458.0, 5351.0, 5395.0, 5404.0, 5709.0, 5633.0, 5631.0, 5519.0, 5406.0, 5683.0, 5506.0, 5649.0, 5525.0, 5603.0, 5402.0, 5300.0, 5469.0, 5352.0, 5273.0, 5658.0, 5687.0, 5554.0, 5556.0, 5422.0, 5594.0, 5322.0, 5367.0, 5286.0, 5316.0, 5627.0, 5574.0, 5417.0, 5608.0, 5424.0, 5429.0, 5258.0, 5684.0, 5640.0, 5436.0, 5721.0, 5654.0, 5475.0, 5365.0, 5560.0, 5413.0, 5437.0, 5350.0 (number of hits: 18)
28	5530	9	1	333	1	5428.0, 5337.0, 5685.0, 5459.0, 5613.0, 5627.0, 5708.0, 5536.0, 5377.0, 5383.0, 5413.0, 5496.0, 5499.0, 5629.0, 5504.0, 5444.0, 5573.0, 5300.0, 5329.0, 5368.0, 5579.0, 5532.0, 5419.0, 5609.0, 5381.0, 5343.0, 5290.0, 5281.0, 5303.0, 5701.0, 5336.0, 5502.0, 5276.0, 5393.0, 5346.0, 5595.0, 5378.0, 5334.0, 5582.0, 5481.0, 5253.0, 5715.0, 5689.0, 5375.0, 5475.0, 5412.0, 5308.0, 5315.0, 5399.0, 5600.0, 5410.0, 5594.0, 5265.0, 5373.0, 5367.0, 5519.0, 5480.0, 5438.0, 5575.0, 5552.0, 5318.0, 5477.0, 5564.0, 5491.0, 5275.0, 5365.0, 5695.0, 5440.0, 5463.0, 5302.0, 5589.0, 5434.0, 5358.0, 5422.0, 5385.0, 5540.0, 5712.0, 5535.0, 5405.0, 5522.0, 5700.0, 5702.0, 5659.0, 5310.0, 5354.0, 5634.0, 5686.0, 5598.0, 5327.0, 5294.0, 5605.0, 5402.0, 5271.0, 5263.0, 5371.0, 5372.0, 5534.0, 5723.0, 5592.0, 5506.0 (number of hits: 14)
29	5530	9	1	333	1	5686.0, 5286.0, 5665.0, 5428.0, 5544.0, 5575.0, 5720.0, 5548.0, 5301.0, 5359.0, 5406.0, 5382.0, 5599.0, 5403.0, 5494.0, 5590.0, 5711.0, 5366.0, 5335.0, 5609.0, 5492.0, 5601.0, 5697.0, 5525.0, 5638.0, 5537.0, 5560.0, 5469.0, 5367.0, 5532.0, 5354.0, 5673.0, 5318.0, 5441.0, 5612.0, 5724.0, 5401.0, 5615.0, 5372.0, 5648.0, 5496.0, 5300.0, 5485.0, 5613.0, 5712.0, 5303.0, 5619.0, 5348.0, 5365.0, 5700.0, 5591.0, 5708.0, 5342.0, 5252.0, 5664.0, 5379.0, 5623.0, 5541.0, 5633.0, 5611.0, 5265.0, 5530.0, 5404.0, 5413.0, 5695.0, 5490.0, 5587.0, 5550.0, 5622.0, 5468.0, 5426.0, 5646.0, 5588.0, 5515.0, 5643.0, 5256.0, 5368.0, 5606.0, 5464.0, 5435.0, 5383.0, 5572.0, 5472.0, 5370.0, 5722.0, 5605.0, 5423.0, 5477.0, 5581.0, 5337.0, 5349.0, 5489.0, 5399.0, 5467.0, 5692.0, 5543.0, 5259.0, 5644.0, 5322.0, 5698.0 (number of hits: 14)
30	5530	9	1	333	1	5674.0, 5491.0, 5713.0, 5253.0, 5619.0, 5302.0, 5290.0, 5471.0, 5255.0, 5415.0, 5363.0, 5340.0, 5266.0, 5610.0, 5387.0, 5455.0, 5458.0, 5571.0, 5657.0, 5702.0, 5500.0, 5442.0, 5498.0, 5631.0, 5299.0,

						5515.0, 5469.0, 5640.0, 5576.0, 5574.0, 5414.0, 5719.0, 5297.0, 5649.0, 5572.0, 5602.0, 5283.0, 5512.0, 5404.0, 5644.0, 5331.0, 5357.0, 5529.0, 5325.0, 5453.0, 5483.0, 5595.0, 5675.0, 5710.0, 5626.0, 5698.0, 5520.0, 5484.0, 5555.0, 5600.0, 5263.0, 5607.0, 5468.0, 5692.0, 5339.0, 5433.0, 5671.0, 5250.0, 5506.0, 5611.0, 5383.0, 5533.0, 5385.0, 5422.0, 5507.0, 5330.0, 5474.0, 5362.0, 5403.0, 5397.0, 5321.0, 5685.0, 5630.0, 5423.0, 5714.0, 5575.0, 5563.0, 5392.0, 5381.0, 5280.0, 5373.0, 5492.0, 5606.0, 5434.0, 5367.0, 5527.0, 5616.0, 5348.0, 5643.0, 5382.0, 5716.0, 5638.0, 5338.0, 5477.0, 5645.0 (number of hits: 13)

10 Annex A– Test Setup Photographs

Please refer to the attachment

11 Annex B - EUT External Photographs

Please refer to the attachment

12 Appendix C– EUT Internal Photographs

Please refer to the attachment

13 Appendix D (Normative) - A2LA Electrical Testing Certificate

Accredited Laboratory

A2LA has accredited

BAY AREA COMPLIANCE LABORATORIES CORP.

Sunnyvale, CA

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets A2LA *R222 - Specific Requirements EPA ENERGY STAR Accreditation Program*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated April 2017*).

Presented this 2nd day of October 2018.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3297.02
Valid to September 30, 2020
Revised June 5, 2019

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

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

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

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