FCC PART 15.407
ISED RSS-247, ISSUE 2, FEBRUARY 2017
DYNAMIC FREQUENCY SELECTION
TEST REPORT

For

Ruckus Wireless, Inc.

350 West Java Dr,

Sunnyvale, CA 94080, USA

FCC ID: S9GH320
IC: 5912A-H320

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

Prepared By:	Frank Wang Test Engineer
Report Number:	R1704253-DFS
Report Date:	2017-06-16
Reviewed By:	Jin Yang RF Engineer

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

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	R1704253-DFS	Original Report	-
1	R1704253-DFS Rev A	Update comments from TCB	2017-06-16

1 General Description

1.1 Product Description for Equipment under Test (EUT)

This test and measurement report has been compiled on behalf of *Ruckus Wireless, Inc.* and their product Model: H320, which will henceforth be referred to as the EUT (Equipment under Test). The EUT is a Wireless Access Point.

Product SW/HW version: *SW:qca-networking-2016-spf-33-0_qca_oem / HW:2.2*
Radio SW/HW version: *SW: qca-networking-2016-spf-3-0_qca_oem / HW: 2.2*

1.2 Mechanical Description of EUT

The EUT measures approximately 122 mm (L) x 80 mm (W) and weighs approximately 84 g.

The data gathered are from production sample provided by the manufacturer, serial number: R1704253-1, assigned by BACL.

1.3 Objective

This report is prepared on behalf of *Ruckus Wireless, Inc*. in accordance with FCC CFR47 §15.407 (h) & RSS 247 §6.3 and KDB: 905462 D02 UNII DFS Compliance Procedures New Rules v02.

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

1.4 Related Submittal(s)/Grant(s)

N/A

1.5 Test Methodology

FCC CFR 47 Part2, Part15.407 (h)

RSS 247 §6.3

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

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

1.6 Test Facility Registrations

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

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

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

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

1.7 Test Facility Accreditations

Bay Area Compliance Laboratories Corp. (BACL) is:

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

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

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

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

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

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

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

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

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

5 Other
- For Water Coolers (ver. 3.0)

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

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

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

Vietnam: APEC Tel MRA -Phase I;

2 EUT Test Configuration

2.1 Justification

The EUT was configured for testing according to FCC CFR47 §15.407 (h) & RSS 247 §6.3, and KDB: 905462 D02 UNII DFS Compliance Procedures New Rules v02.

2.2 EUT Exercise Software

The DFS SW version 106.0.0.99.14952294 was provided by Ruckus Wireless Inc., and was verified by *Jin Yang* to comply with the standard requirements being tested against.

2.3 Equipment Modifications

N/A

2.4 Local Support Equipment

N/A

2.5 Interface Ports and Cables

N/A

2.6 Power Supply and Line Filters

Manufacturer	Description	Model	Part Number
N/A	POE injector	N/A	N/A

3 Summary of Test Results

The following result table represents the list of measurements required under the FCC CFR47 §15.407 (h) & RSS 247 §6.3, and KDB: 905462 D02 UNII DFS Compliance Procedures New Rules v02.

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

4 Applicable Standards

4.1 DFS Requirement

FCC CFR47 §15.407 (h) & RSS 247 §6.3, 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	$\text{Roundup}\left\{\left(\frac{1}{360}\right)\cdot\left(\frac{19\cdot 10^6}{\text{PRI}_{\mu\text{sec}}}\right)\right\}$	60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120

Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.

Table 6: Long Pulse Radar Test Signal

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

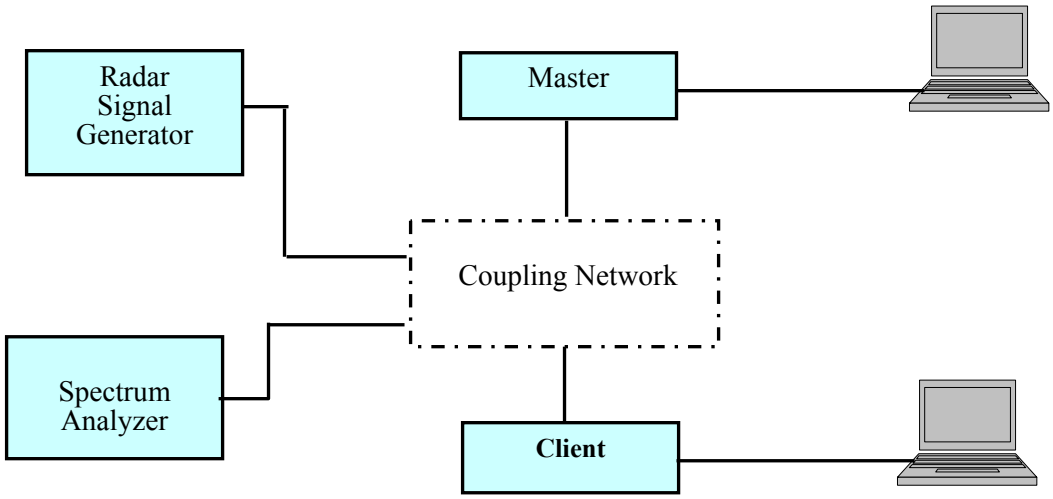
Table 7: Frequency Hopping Radar Test Signal

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

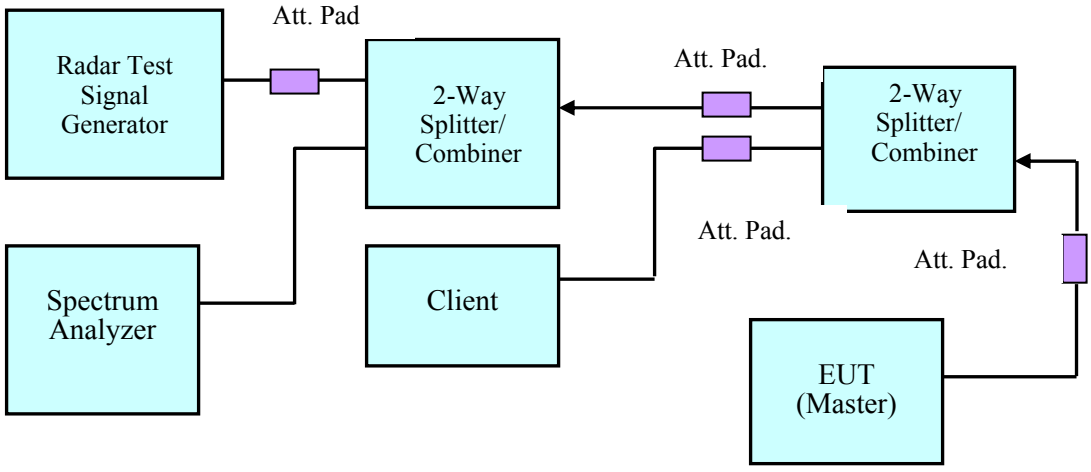
4.2 DFS Measurement System

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

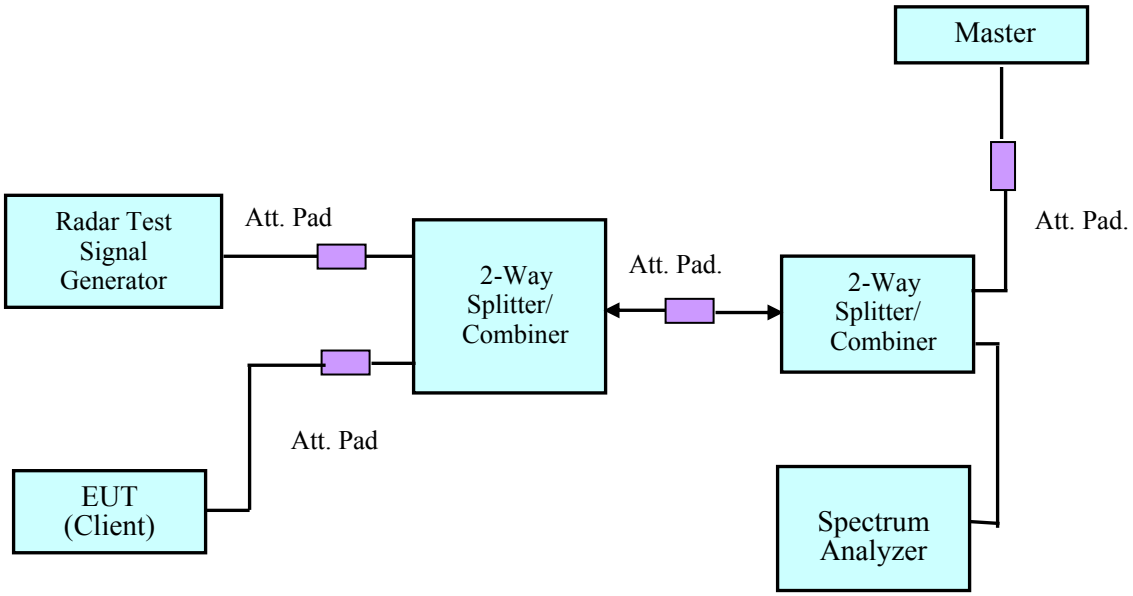
4.3 System Block Diagram



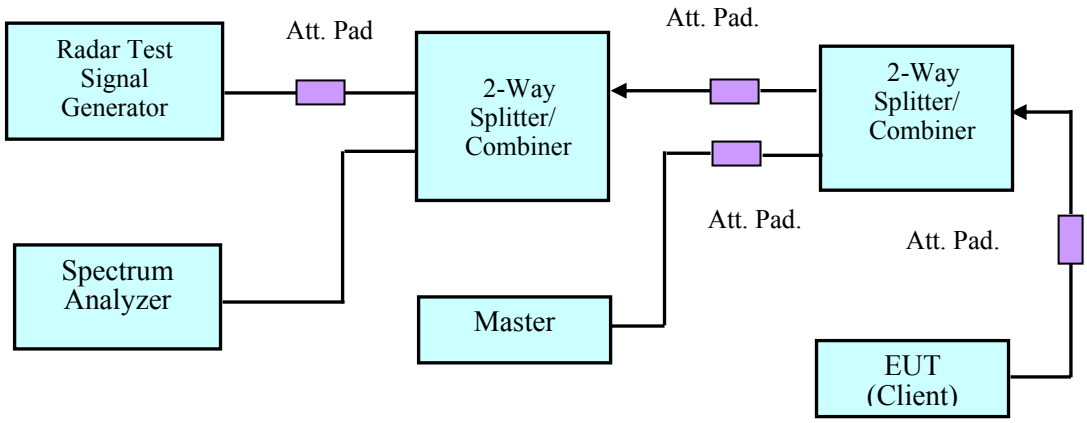
4.4 Conducted Method



Setup for Master with injection at the Master

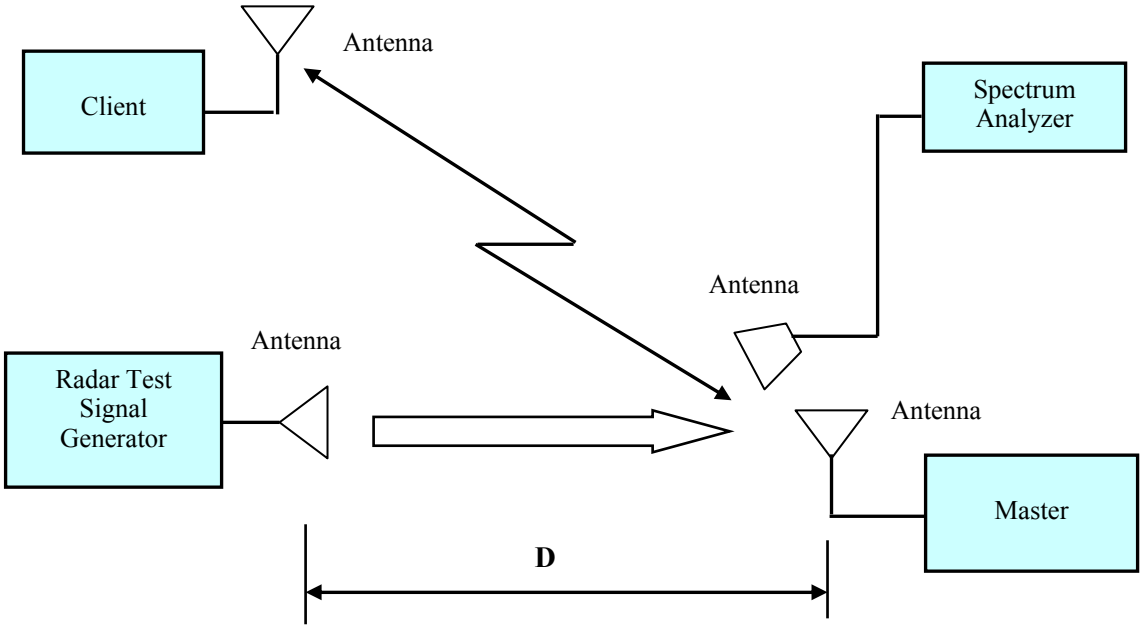


Setup for Client with injection at the Master



Setup for Client with injection at the Client

4.5 Radiated Method



4.6 Test Procedure

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

5 Test Results

5.1 Description of EUT

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

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

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

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

5.2 Antenna Description

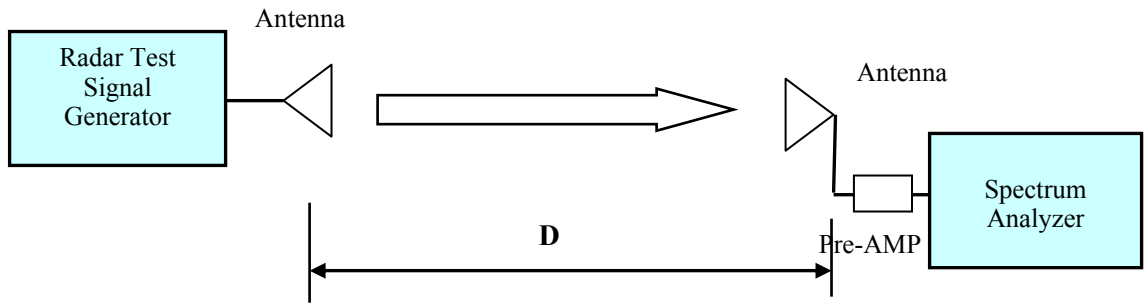
Antenna Type	Antenna Gain (dBi) @ 5 GHz
Printed Monopole	1
Printed Diople	3

5.3 Test Equipment List and Details

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

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

5.4 Radar Waveform Calibration



Radiated Calibration Setup Block Diagram

5.5 Test Environmental Conditions

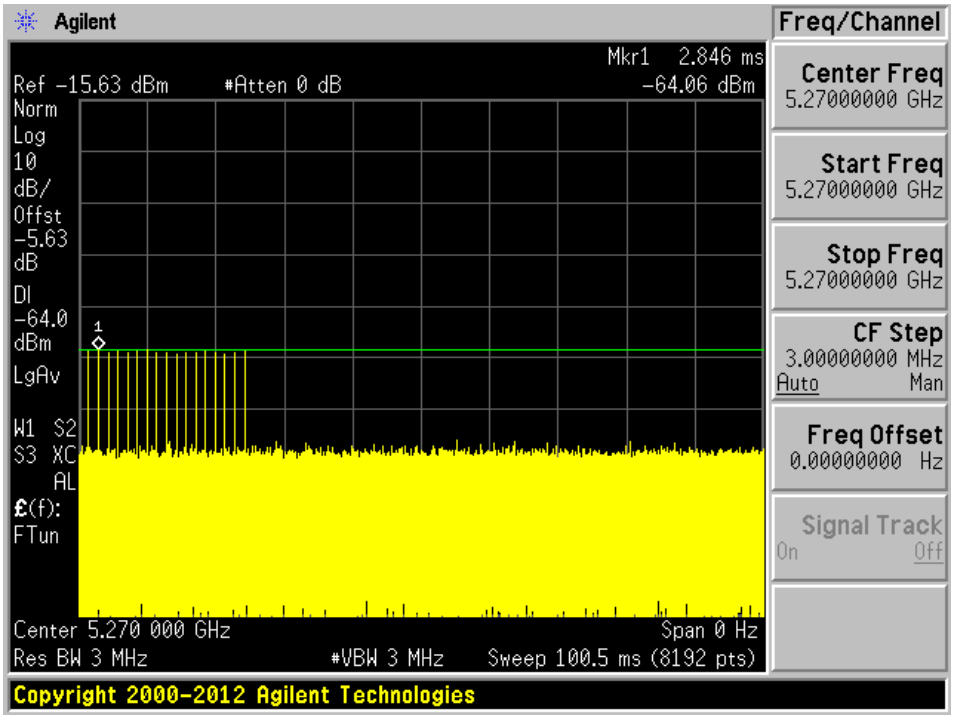
Temperature:	22-25° C
Relative Humidity:	45-48 %
ATM Pressure:	102.1 kPa

Testing was performed by Jin Yang from 2017-04-26 to 2017-04-30 at the DFS site.

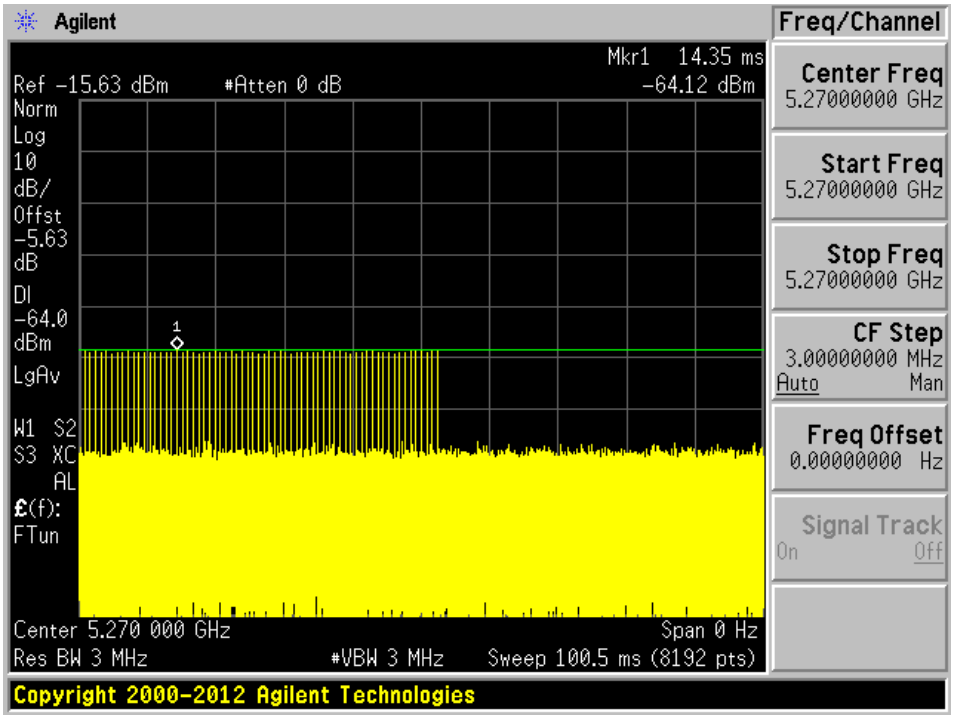
Plots of Radar Waveforms

5270 MHz

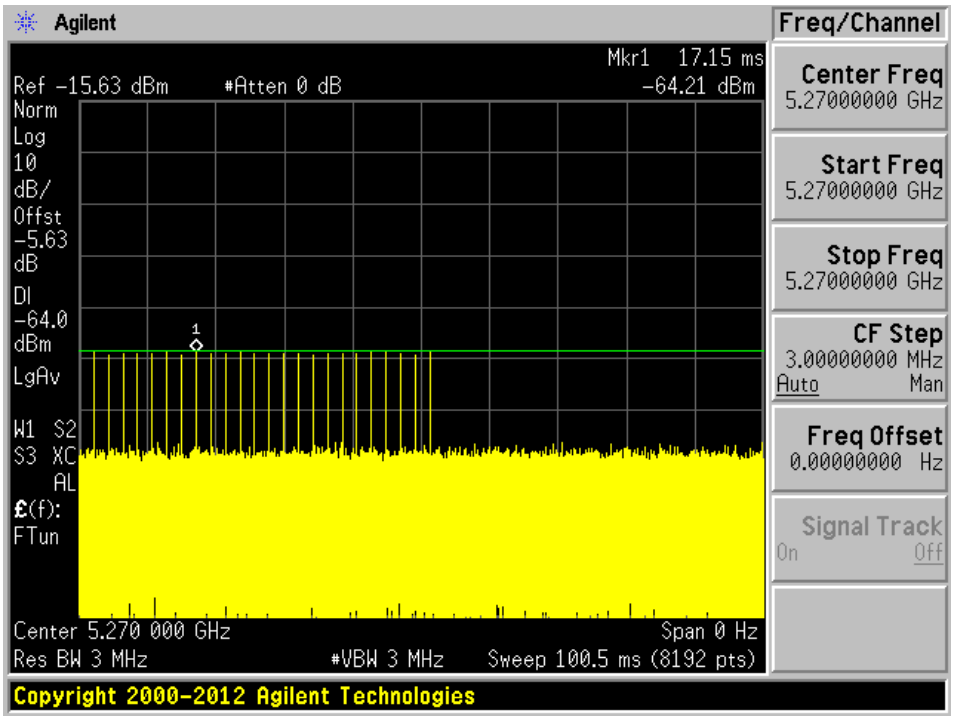
Radar Type 0



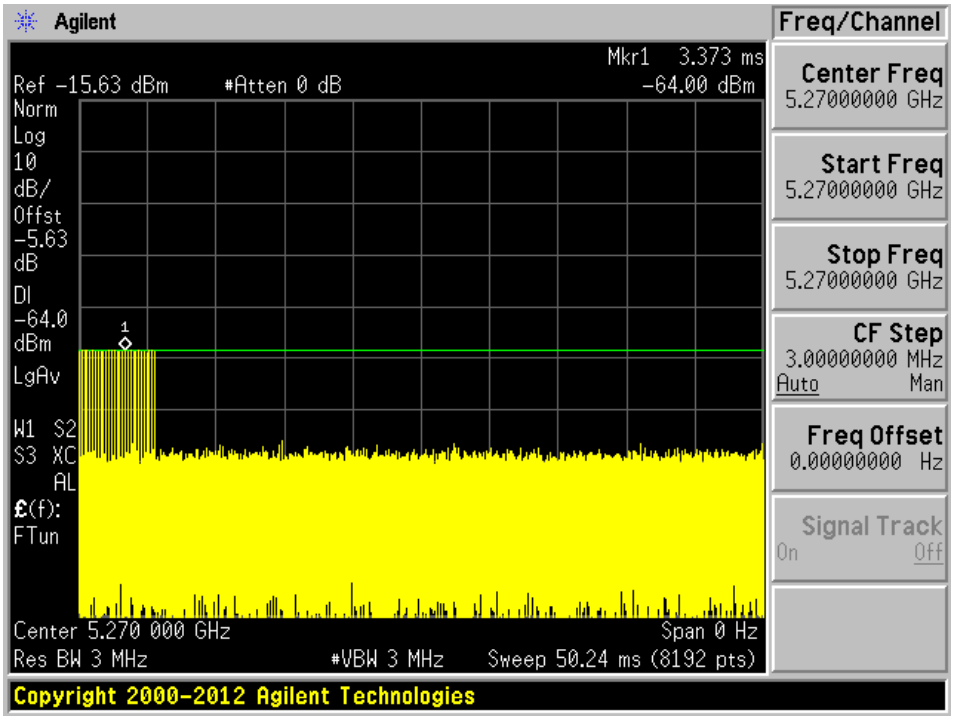
Radar Type 1A



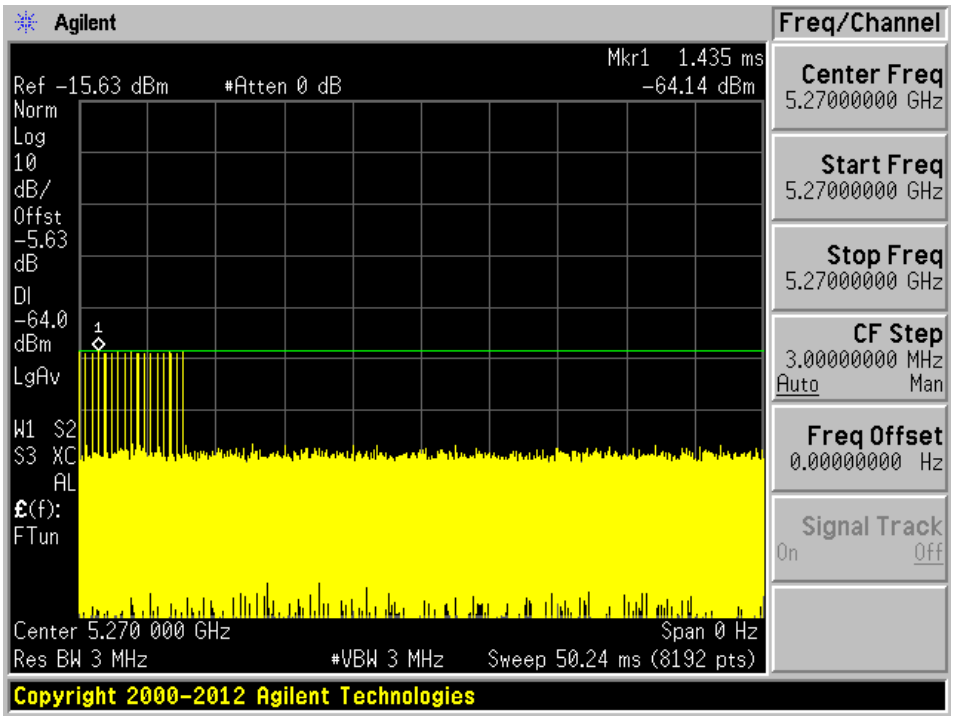
Radar Type 1B



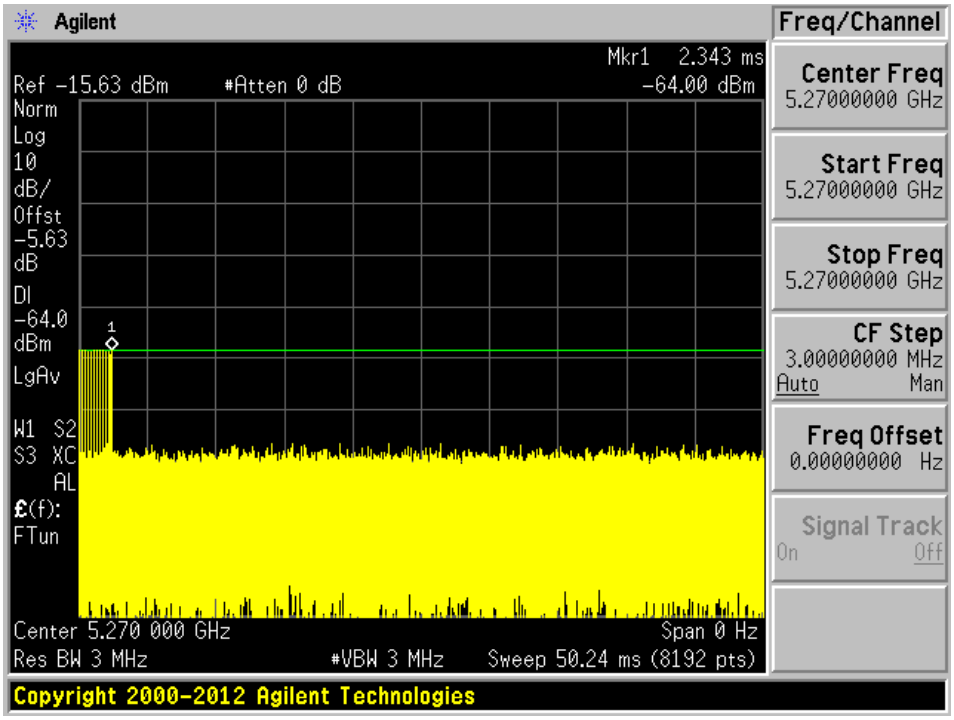
Radar Type 2



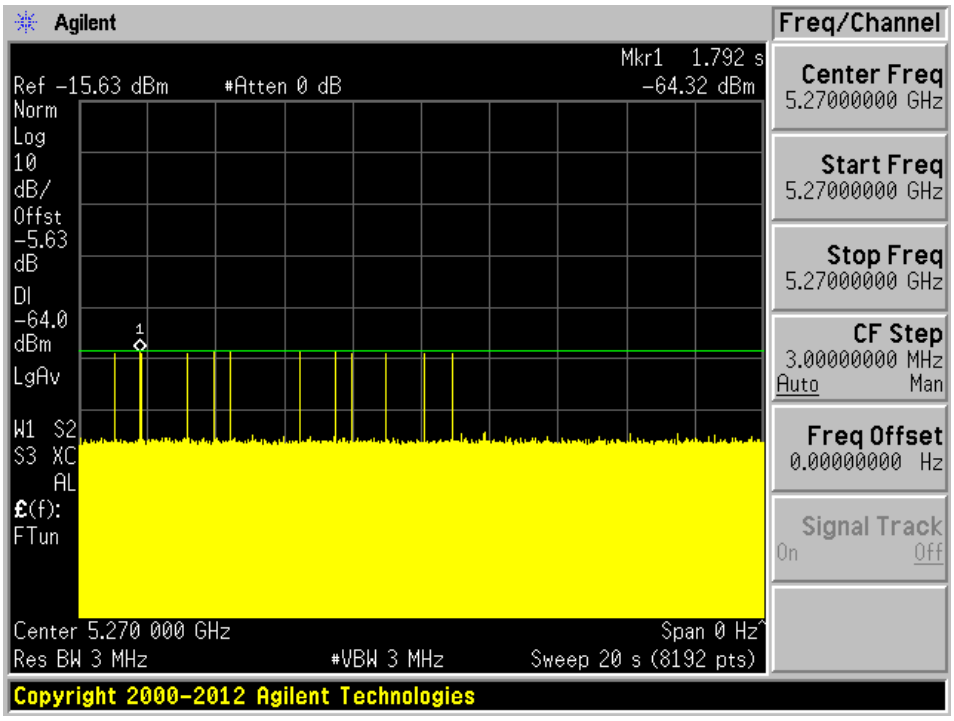
Radar Type 3



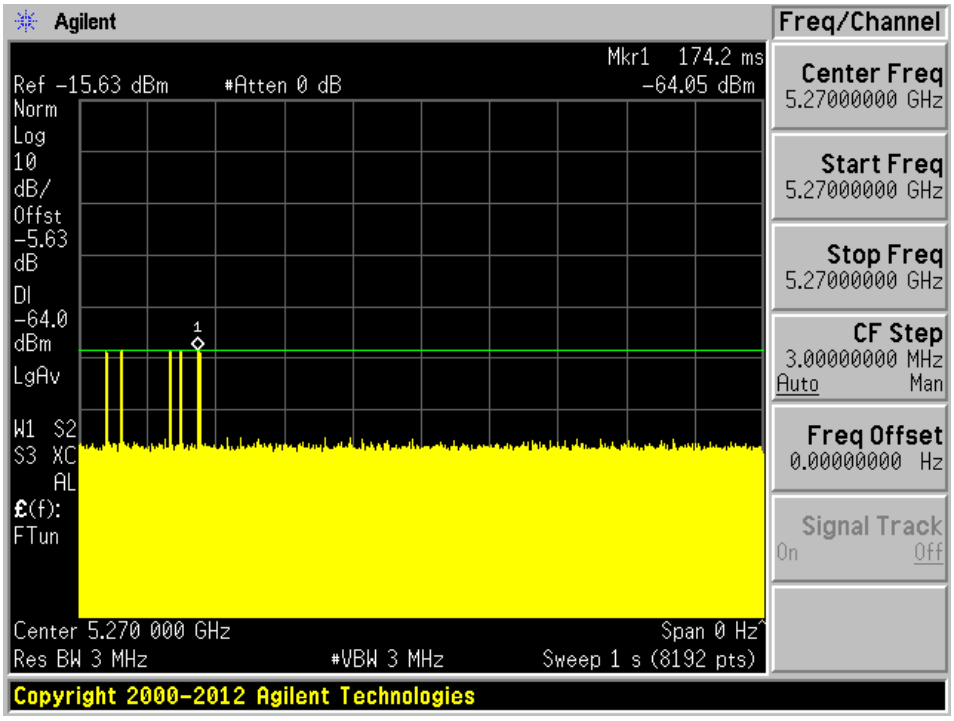
Radar Type 4



Radar Type 5

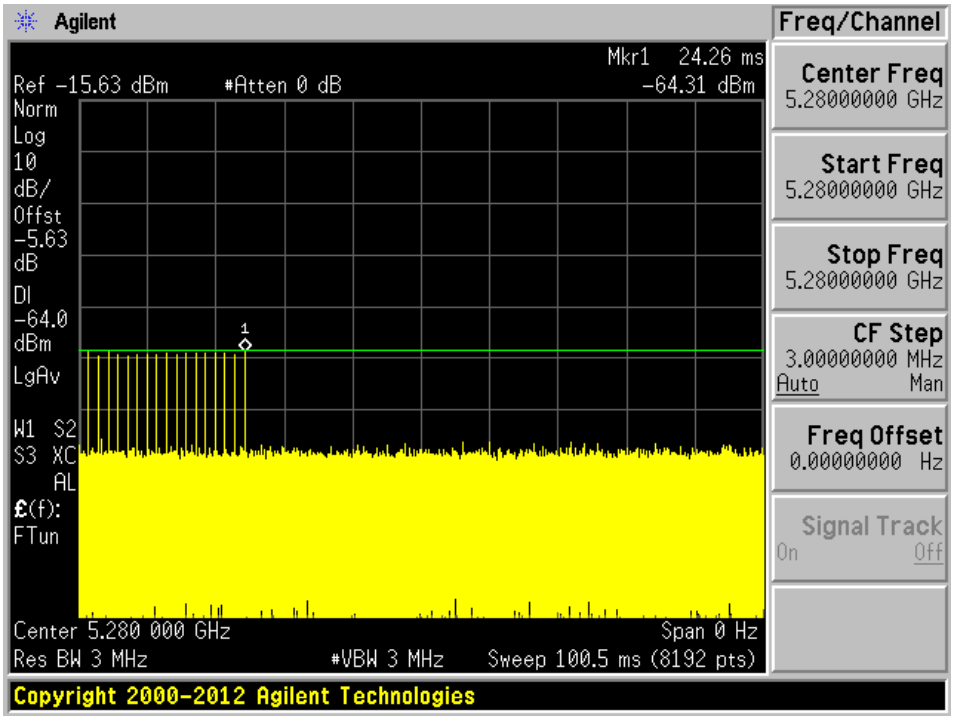


Radar Type 6

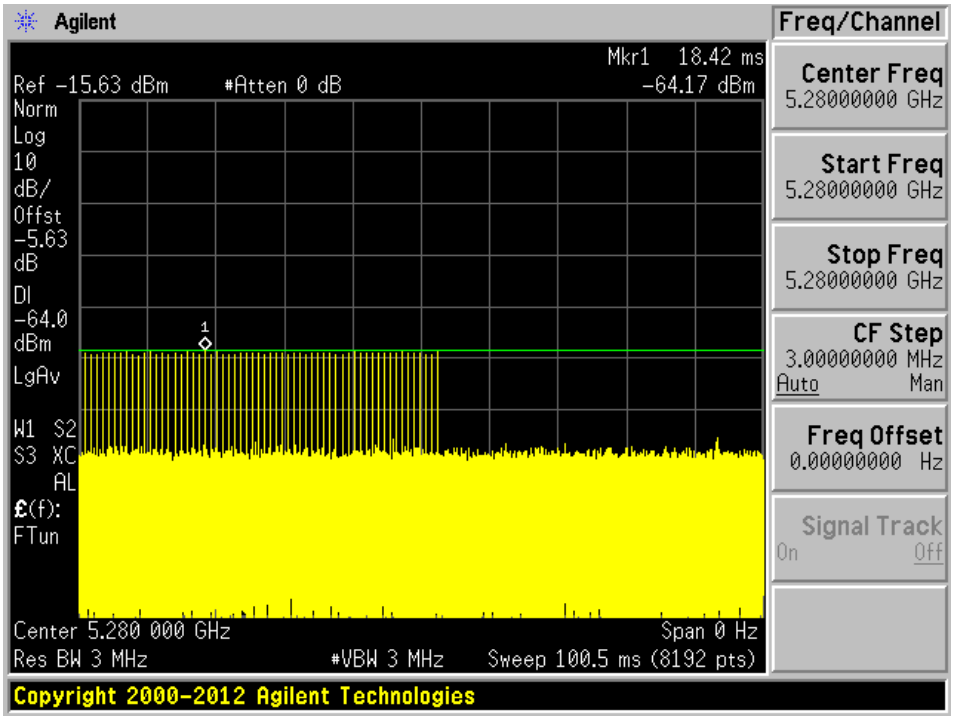


5280 MHz

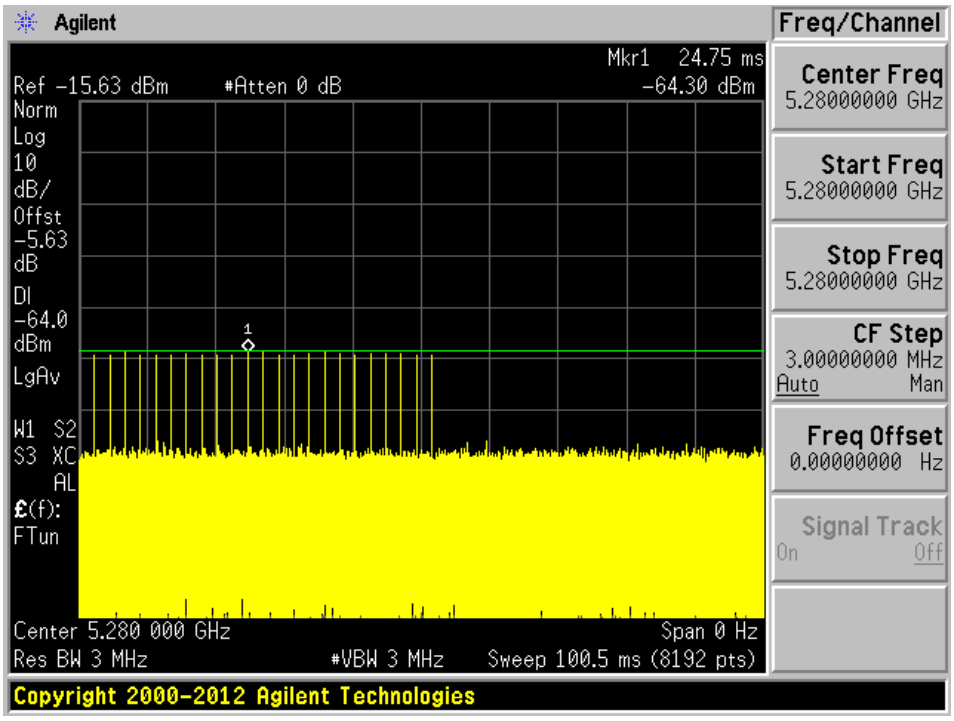
Radar Type 0



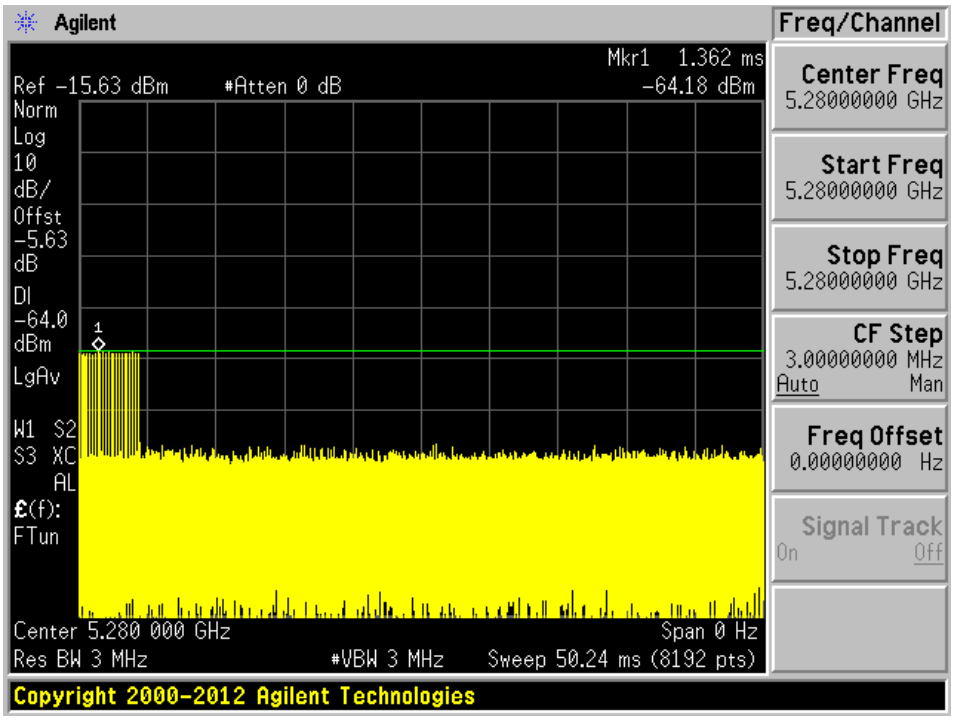
Radar Type 1A



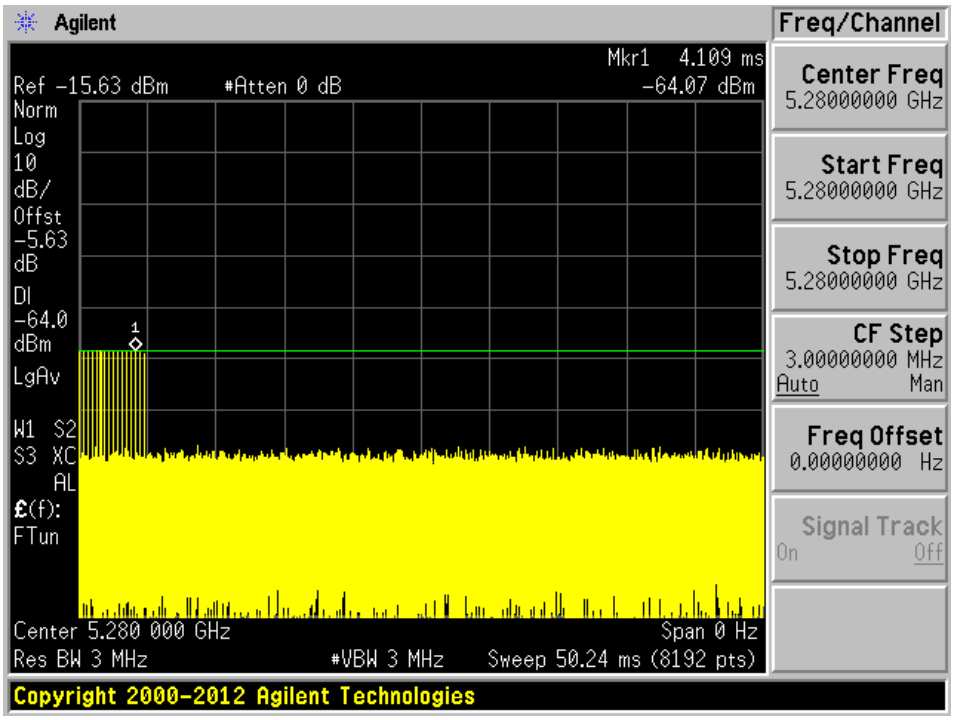
Radar Type 1B



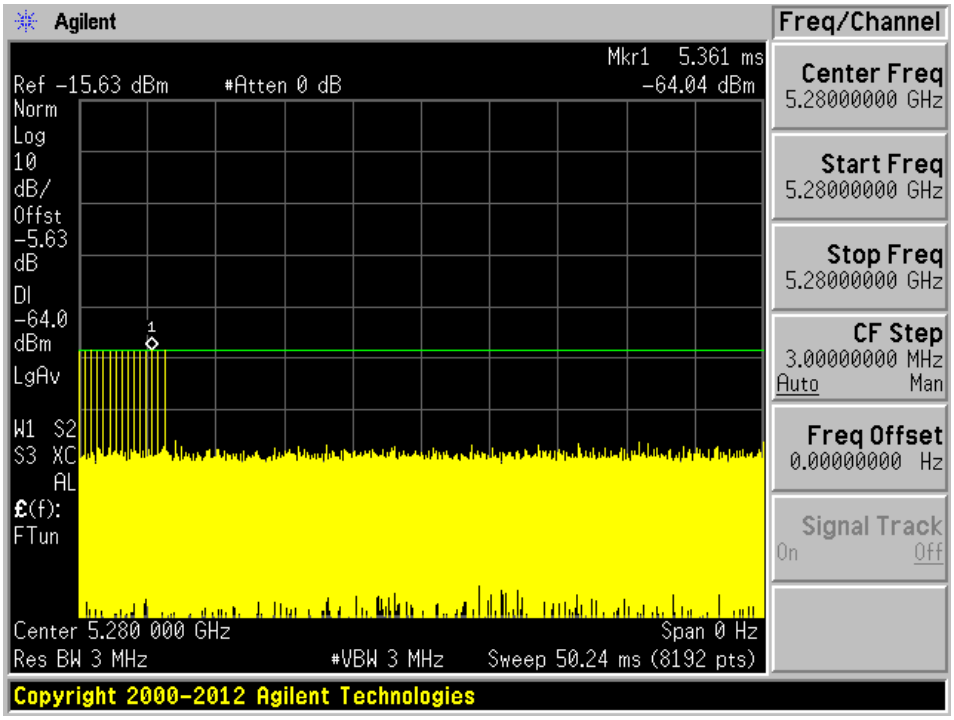
Radar Type 2



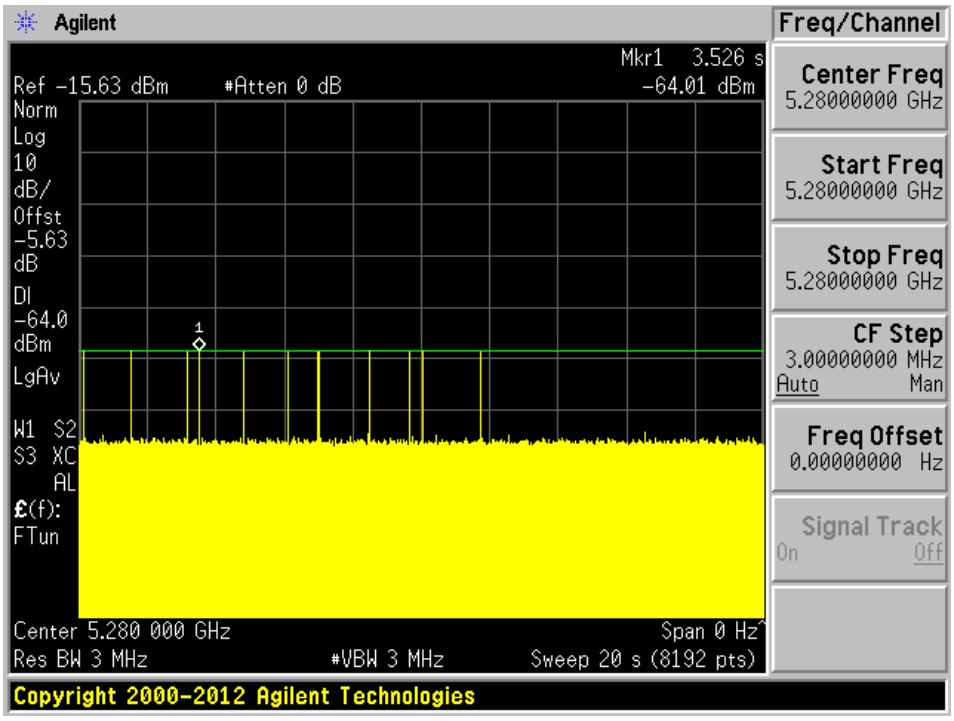
Radar Type 3



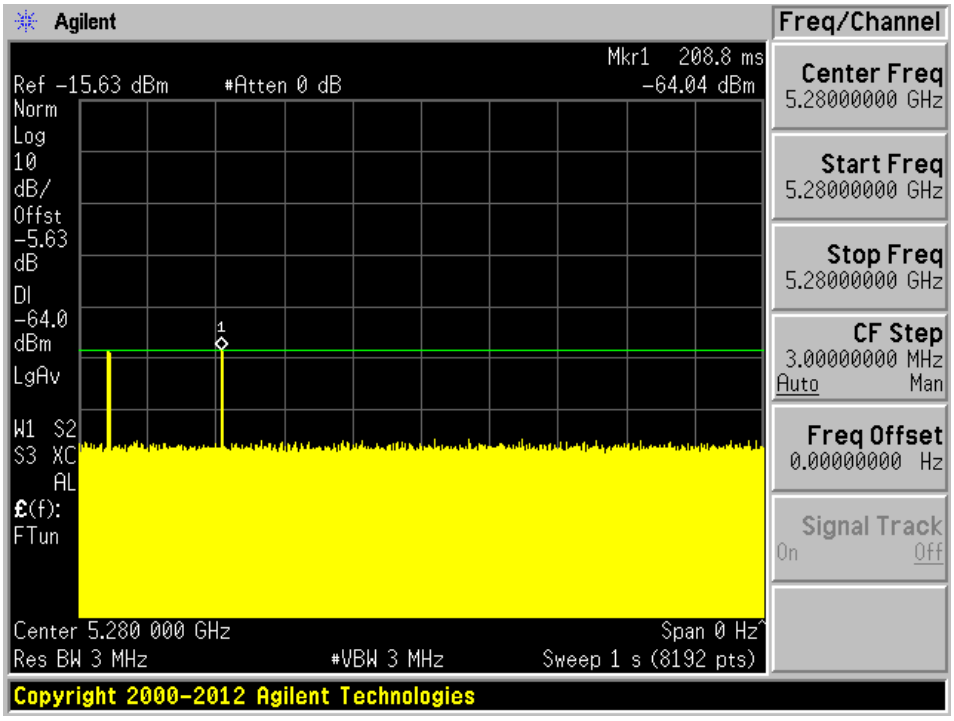
Radar Type 4



Radar Type 5

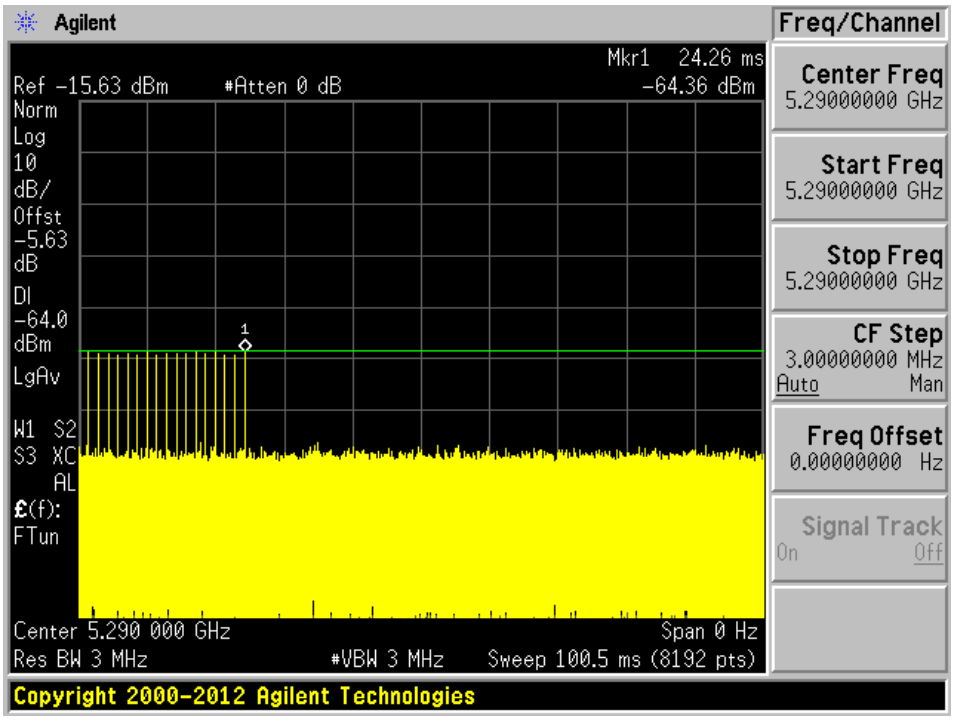


Radar Type 6

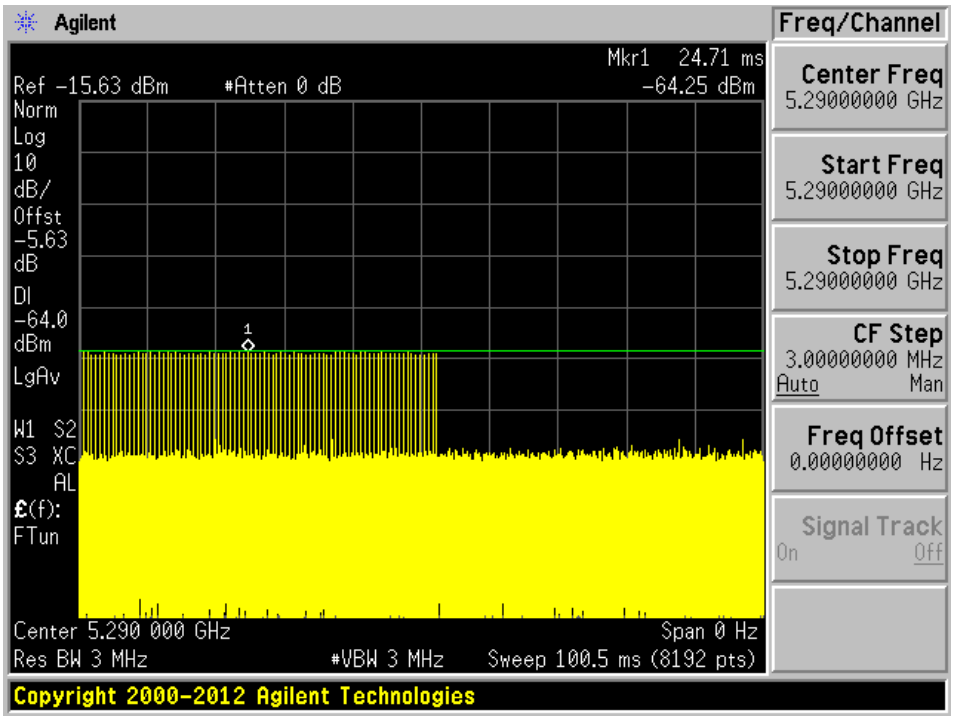


5290 MHz

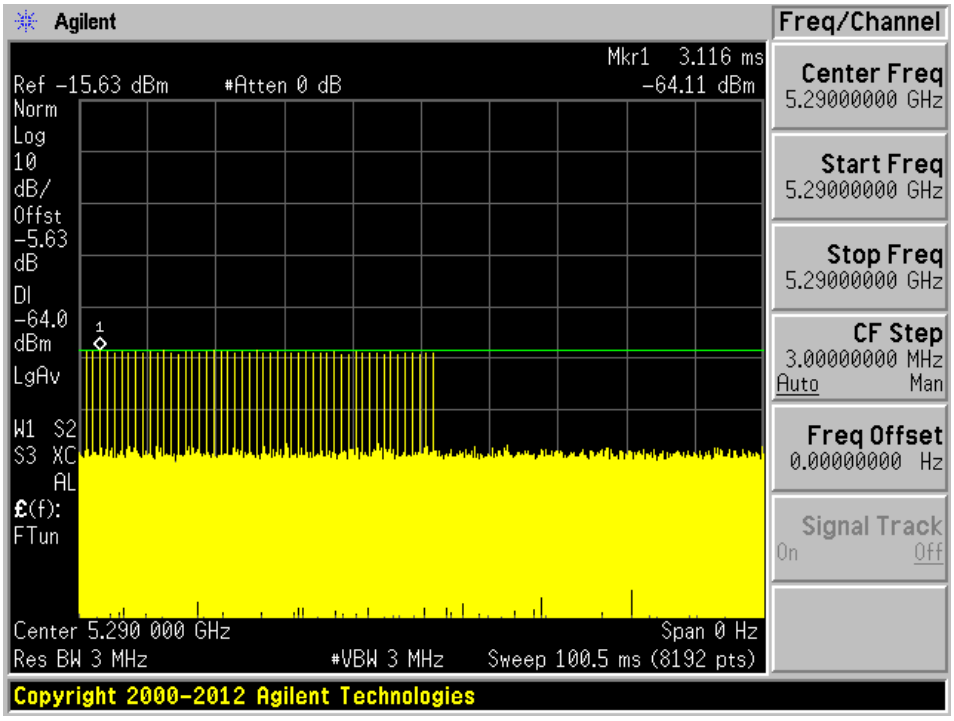
Radar Type 0



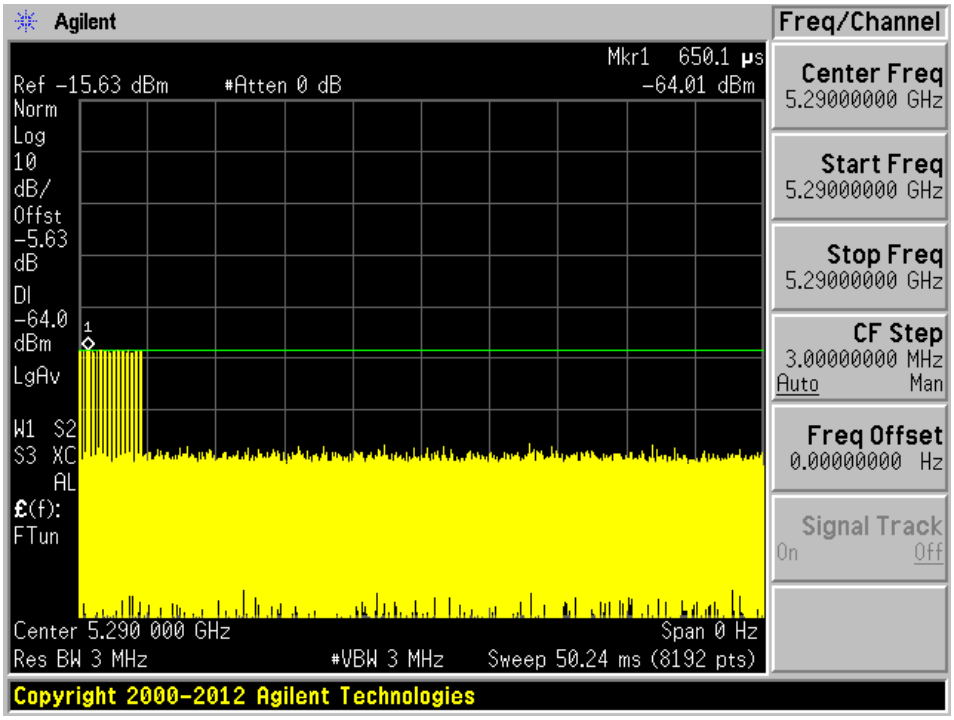
Radar Type 1A



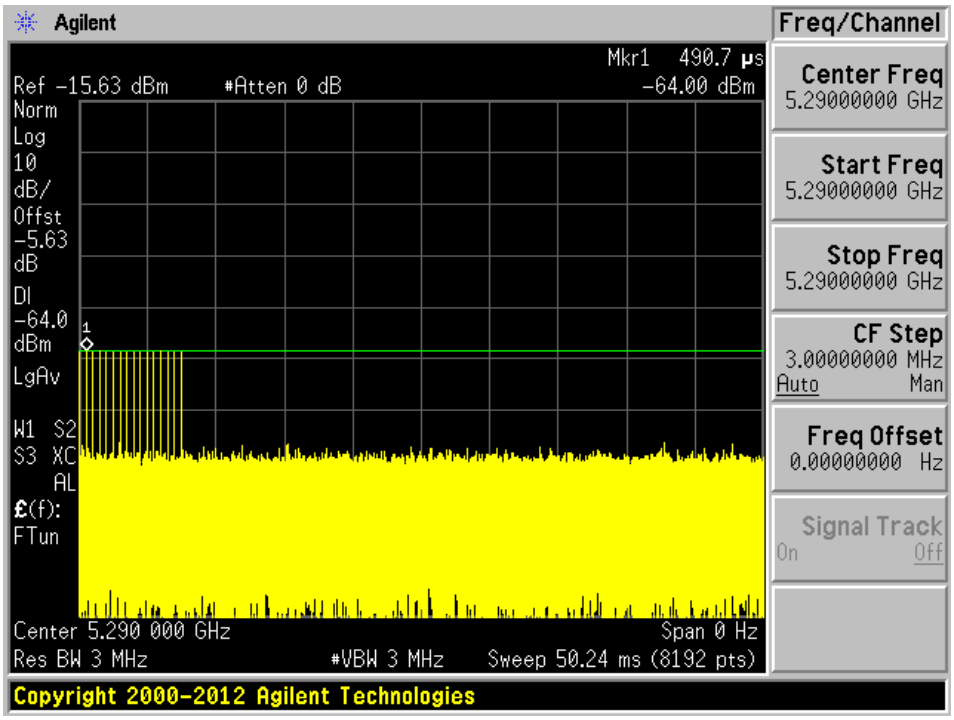
Radar Type 1B



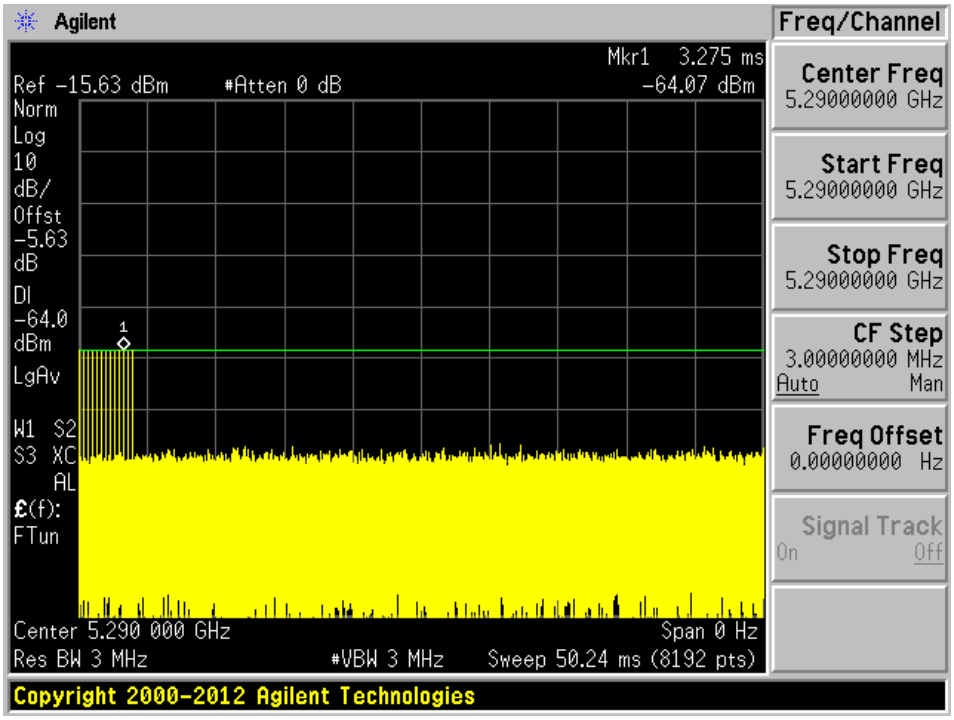
Radar Type 2



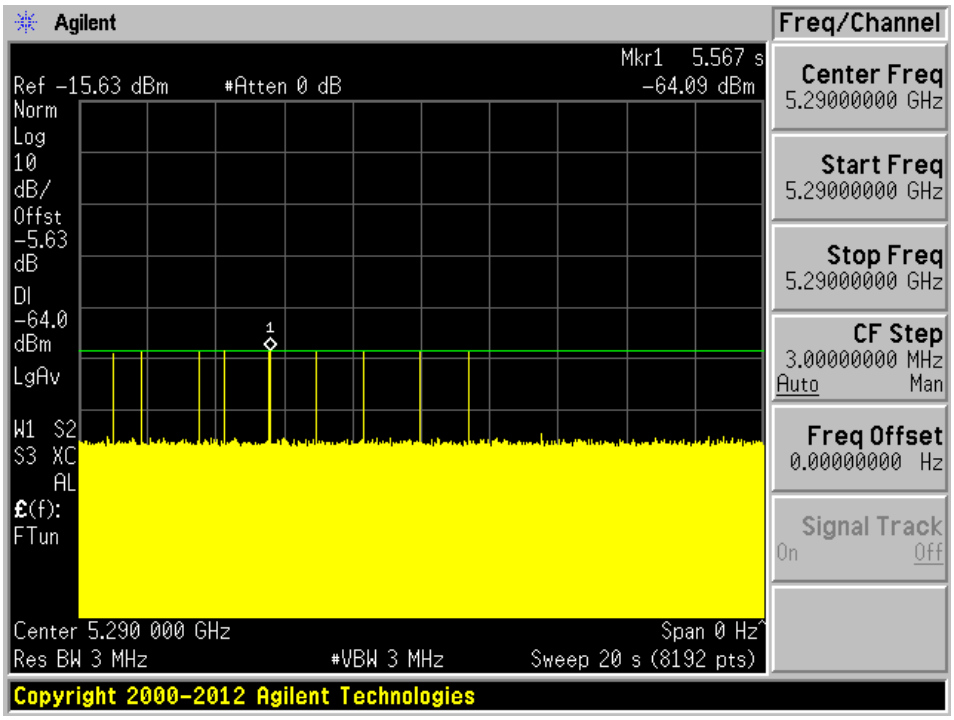
Radar Type 3



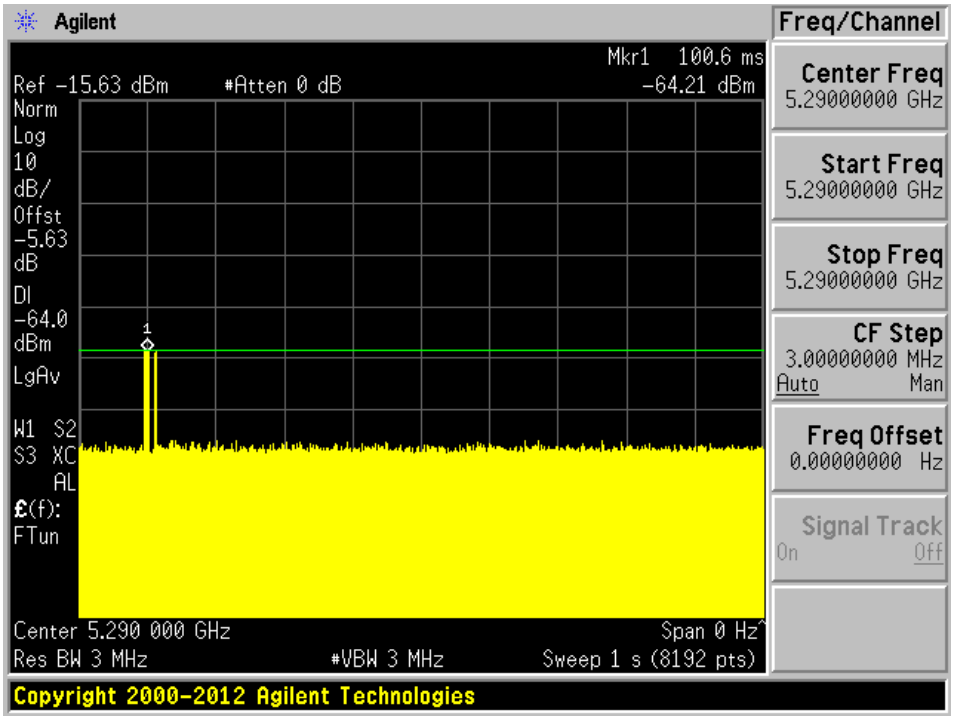
Radar Type 4



Radar Type 5

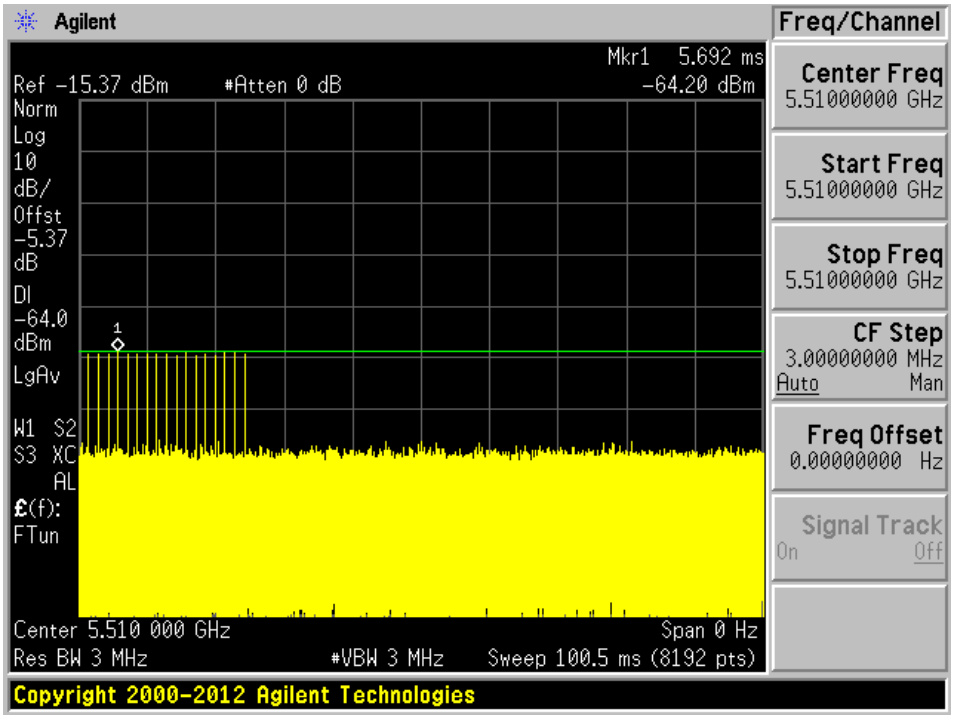


Radar Type 6

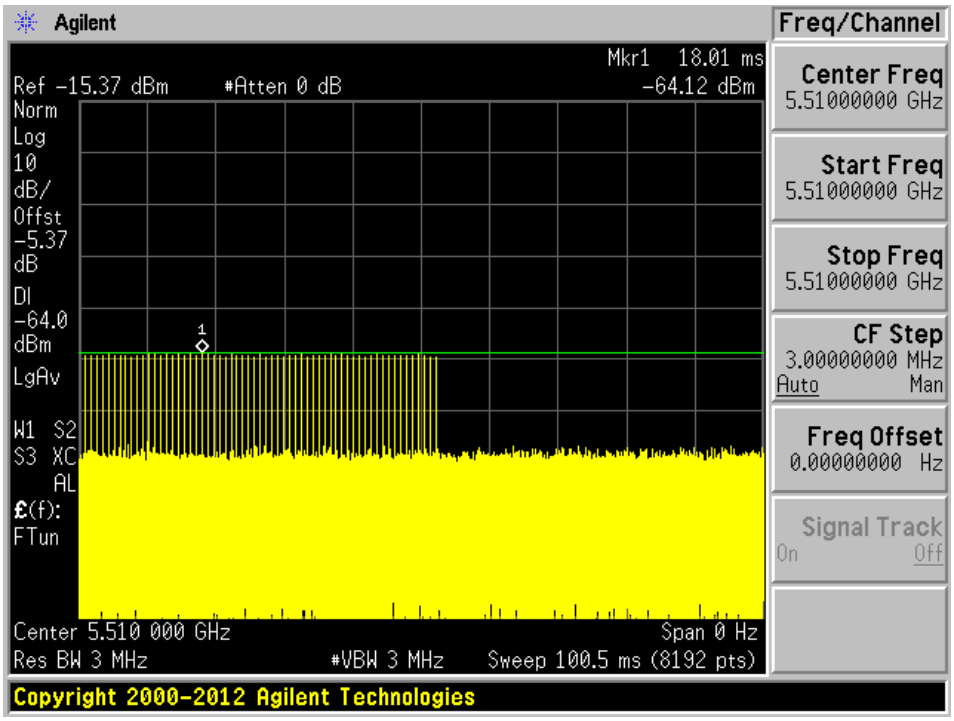


5510 MHz

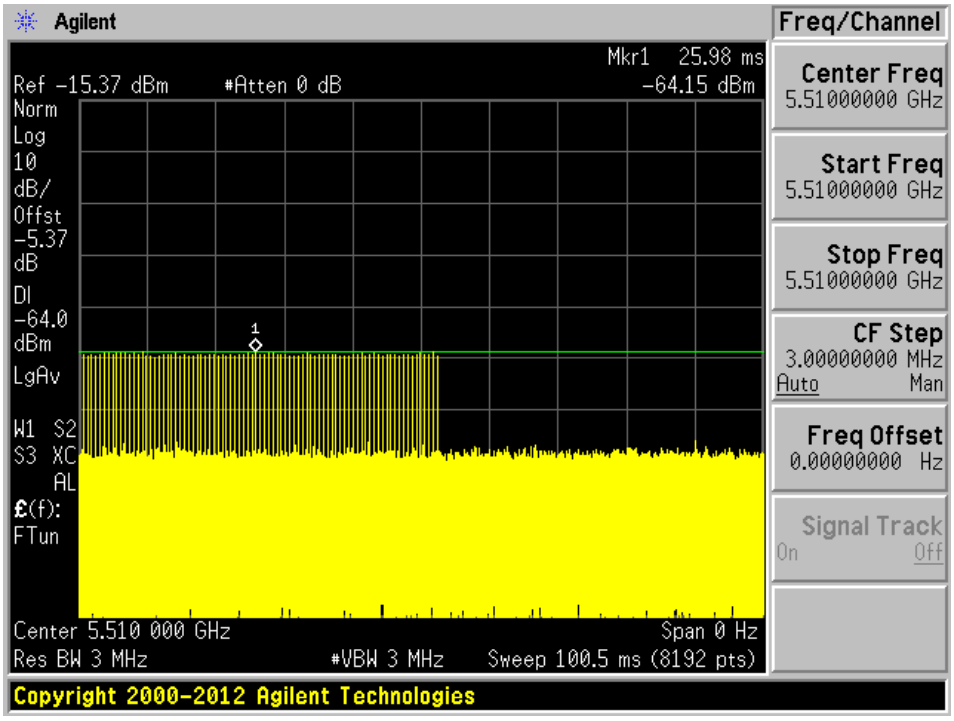
Radar Type 0



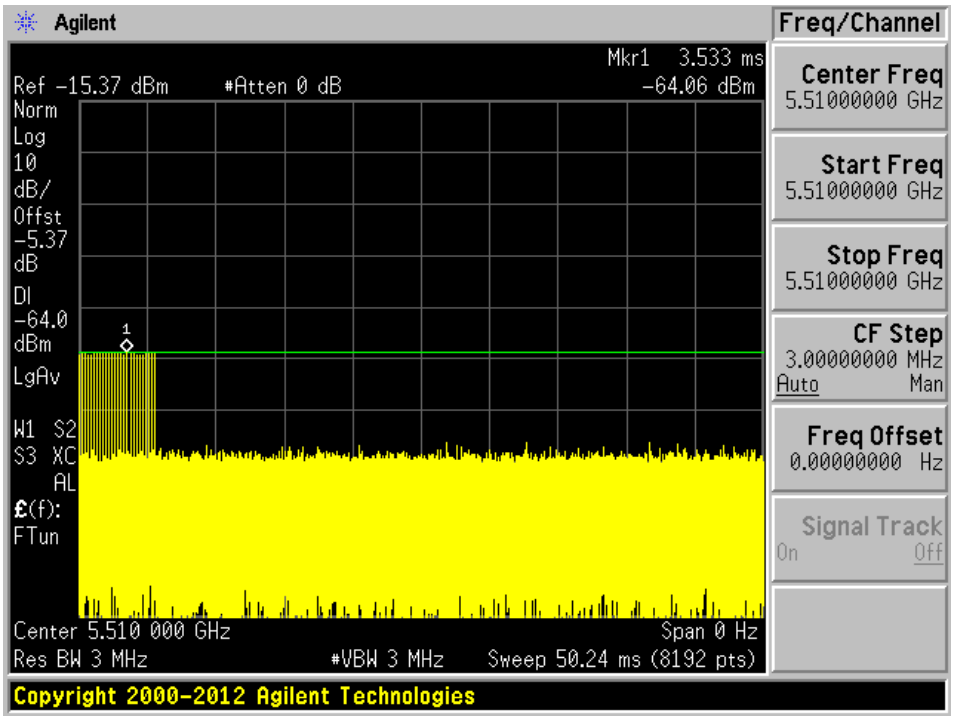
Radar Type 1A



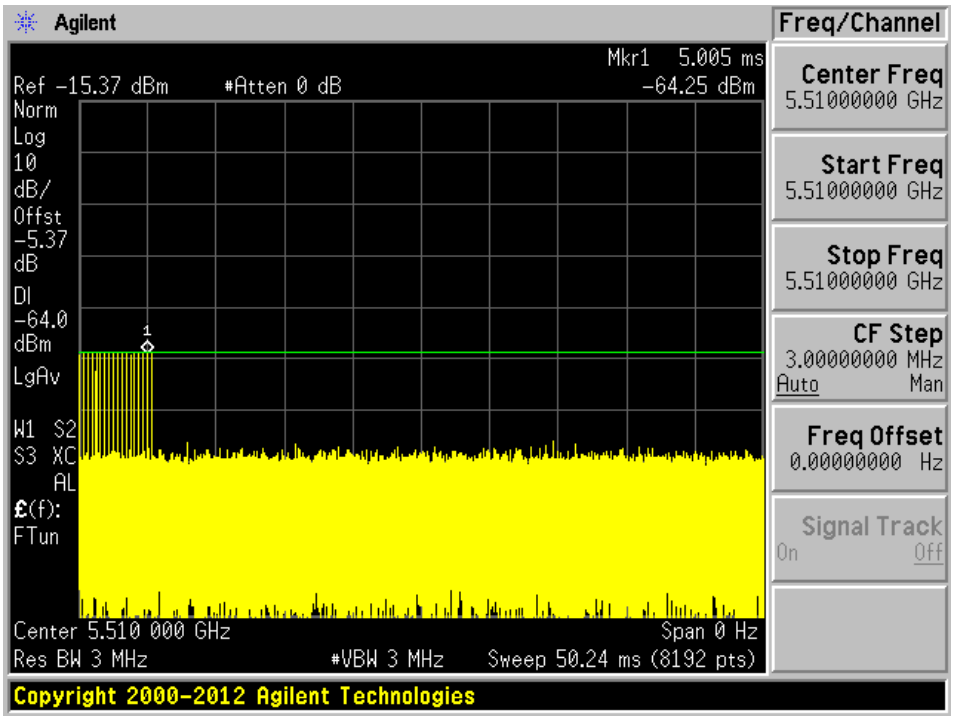
Radar Type 1B



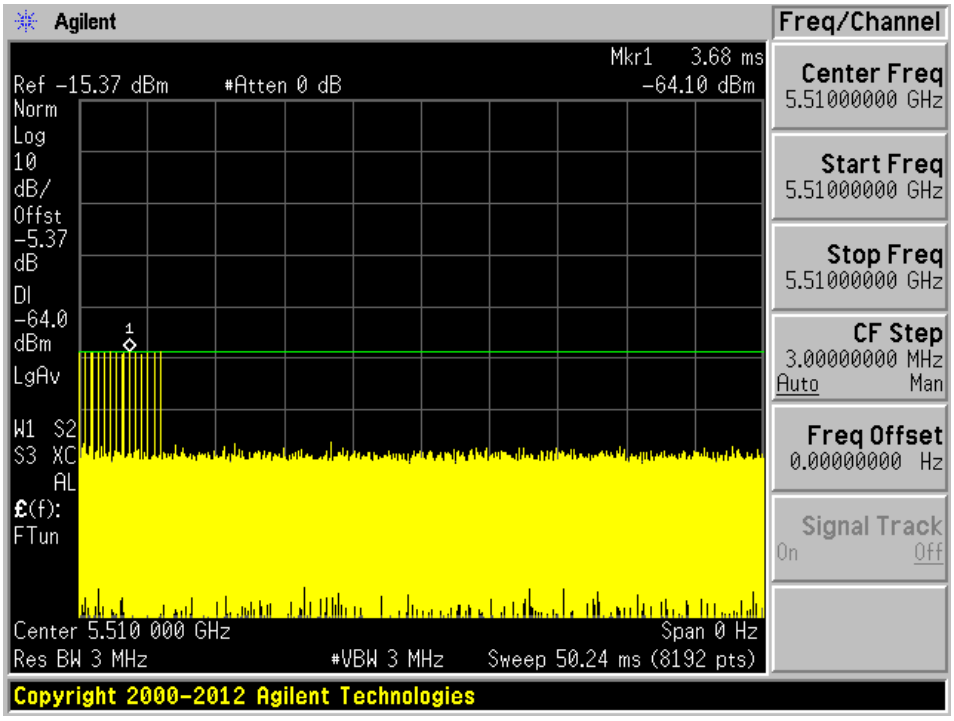
Radar Type 2



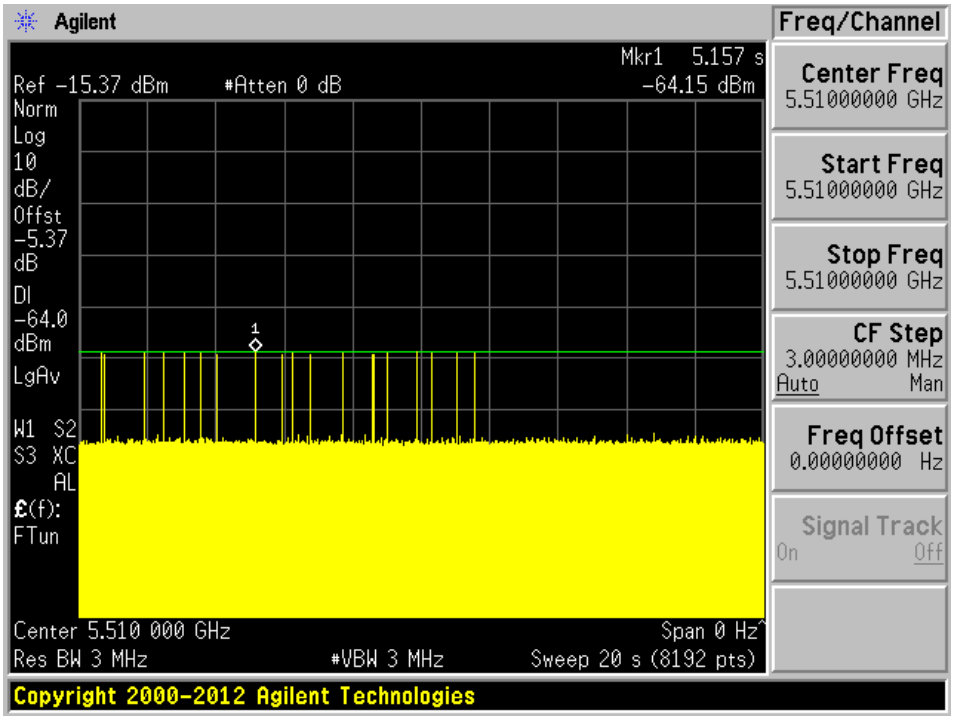
Radar Type 3



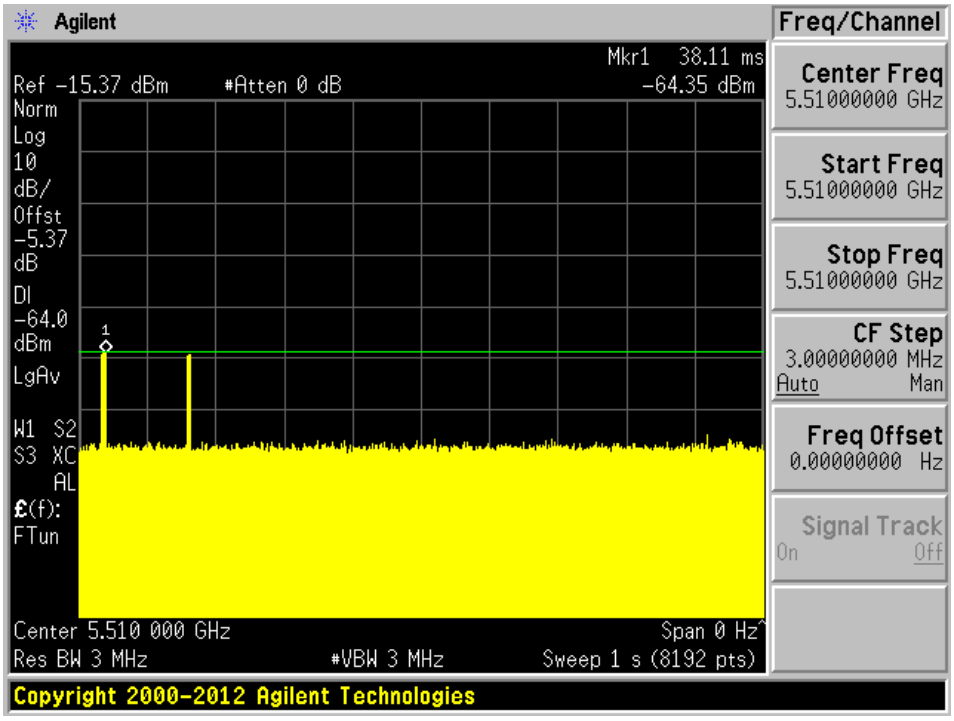
Radar Type 4



Radar Type 5

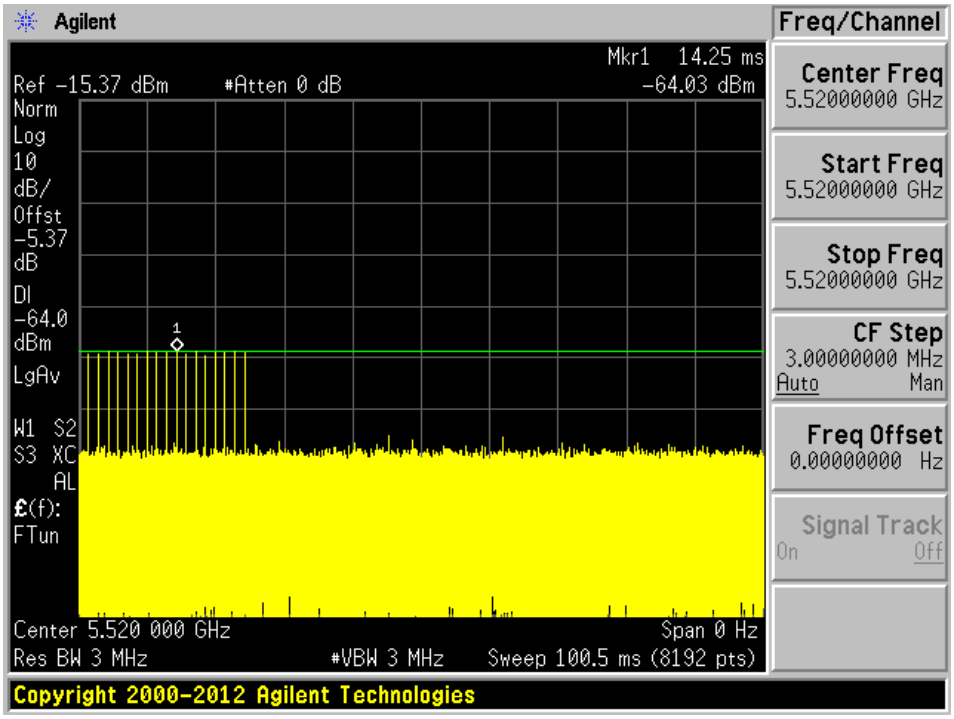


Radar Type 6

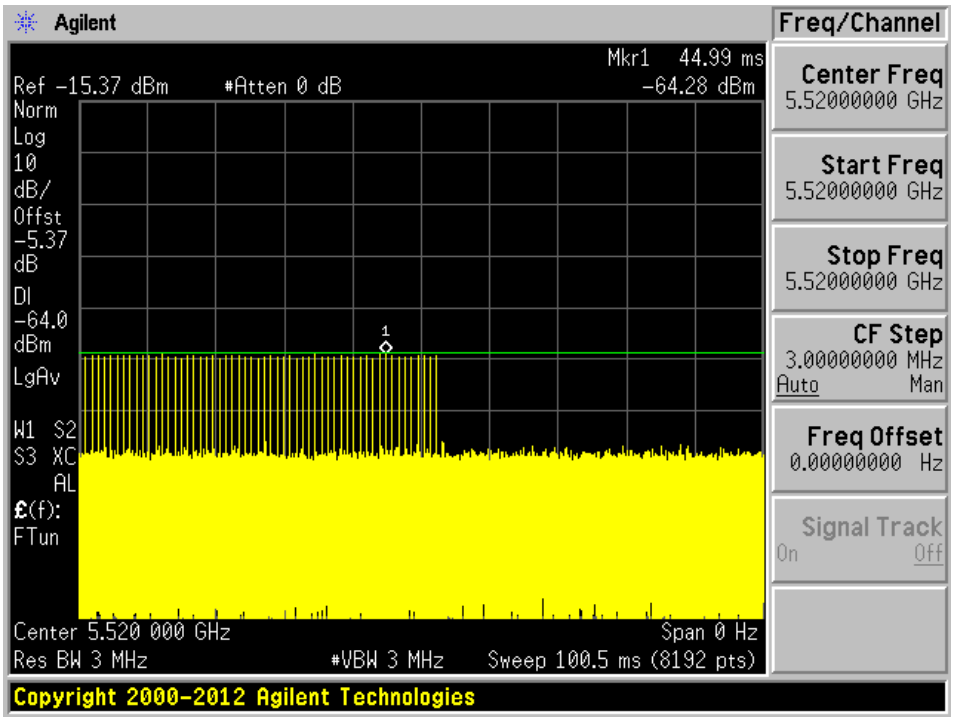


5520 MHz

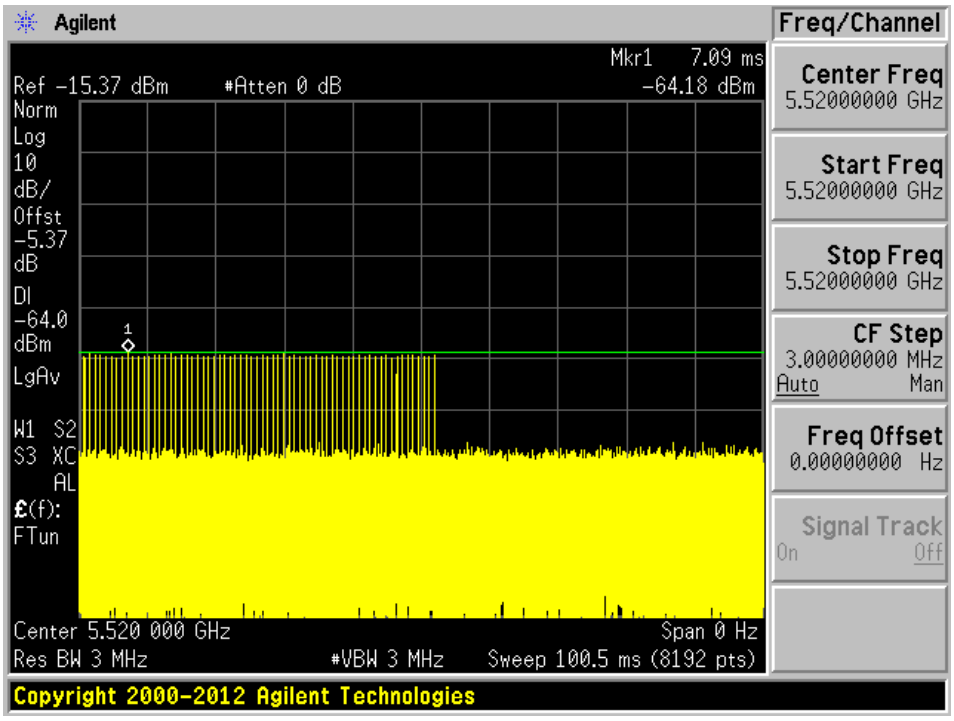
Radar Type 0



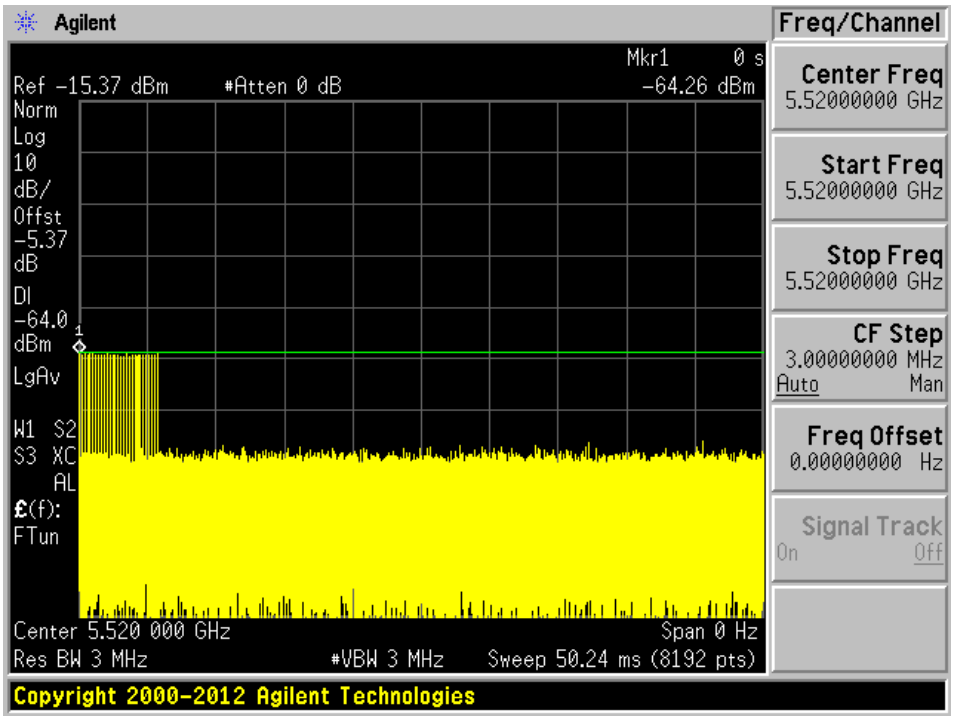
Radar Type 1A



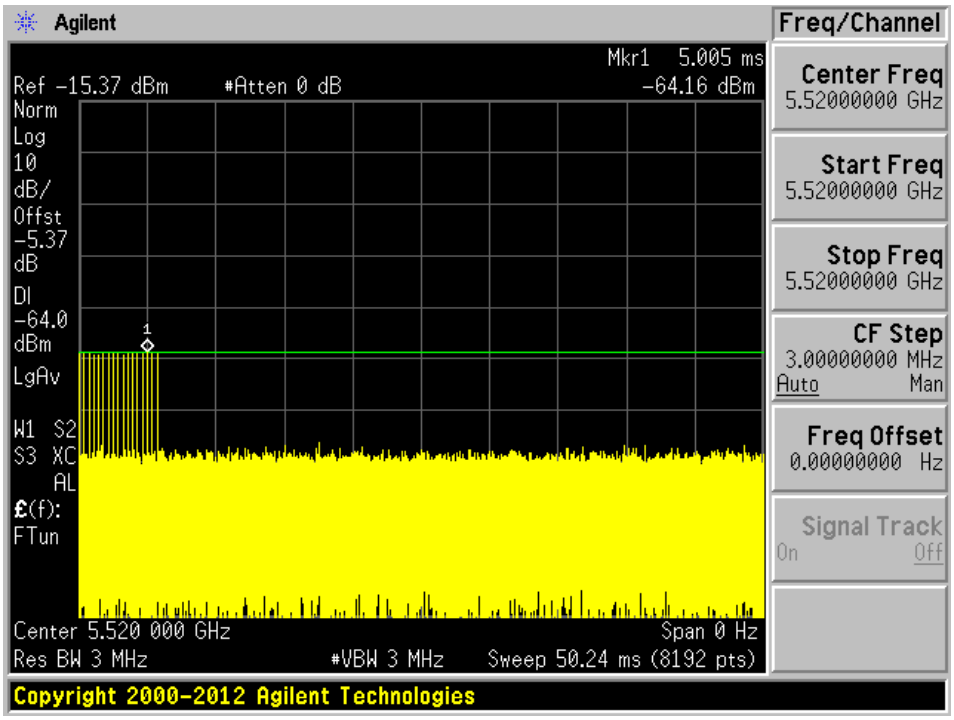
Radar Type 1B



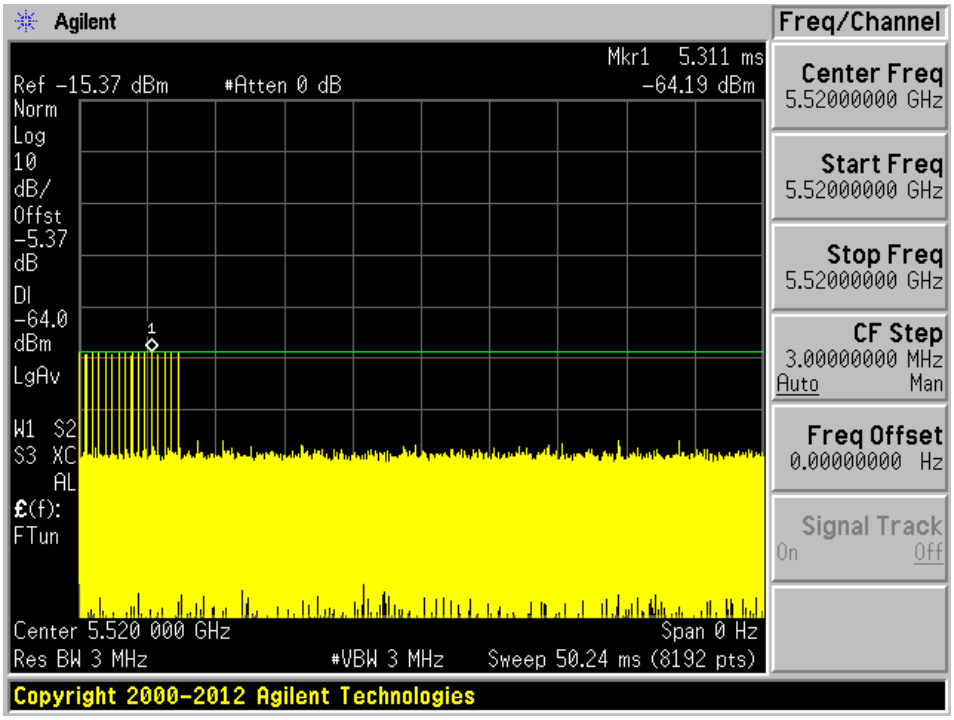
Radar Type 2



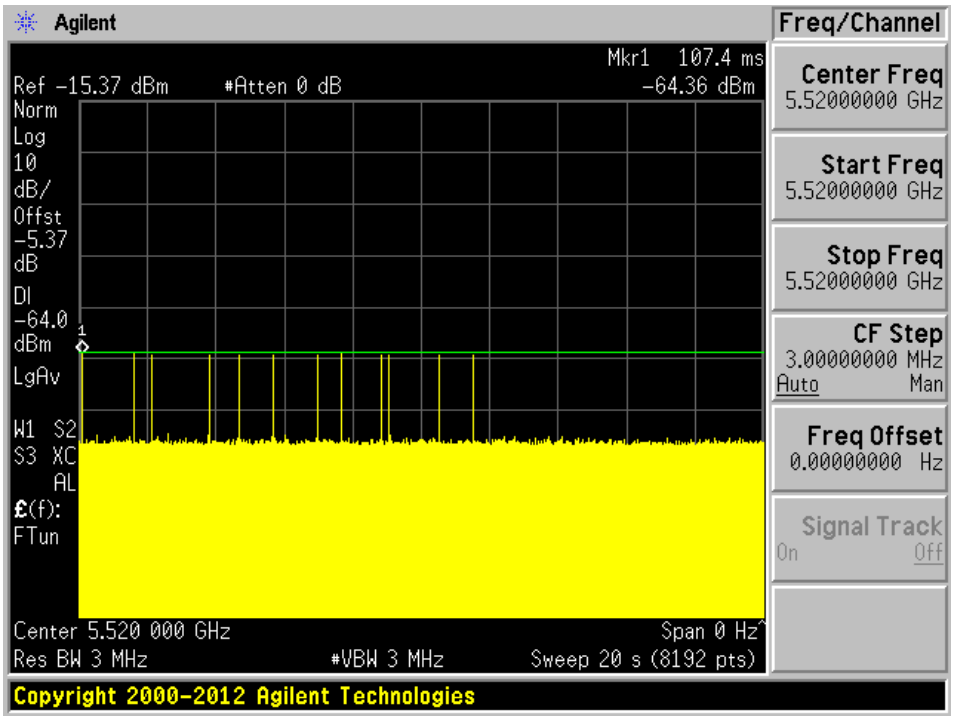
Radar Type 3



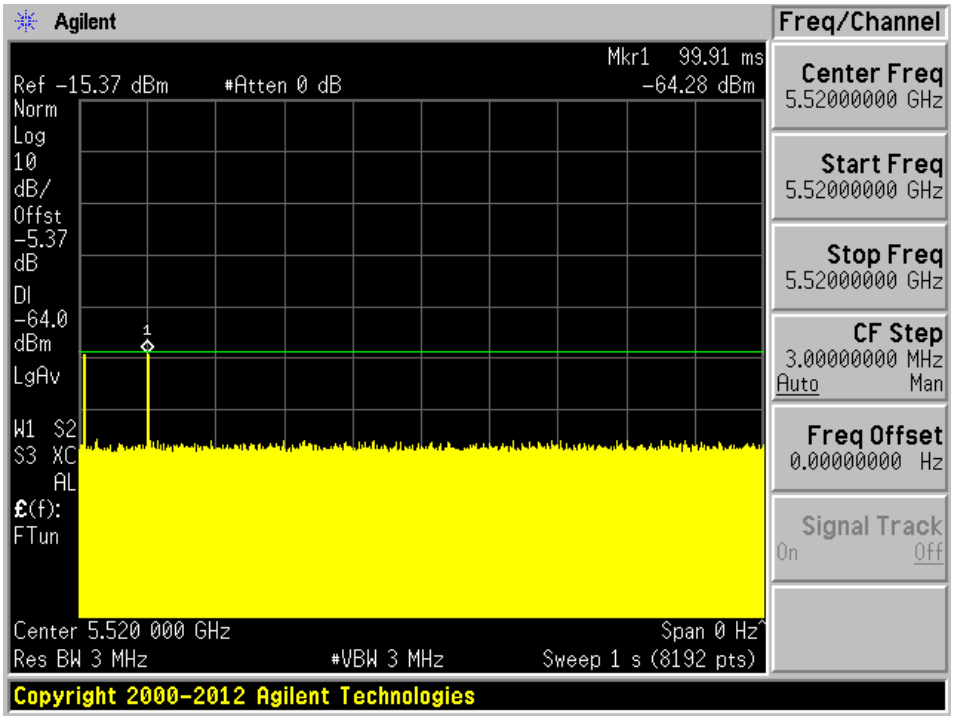
Radar Type 4



Radar Type 5

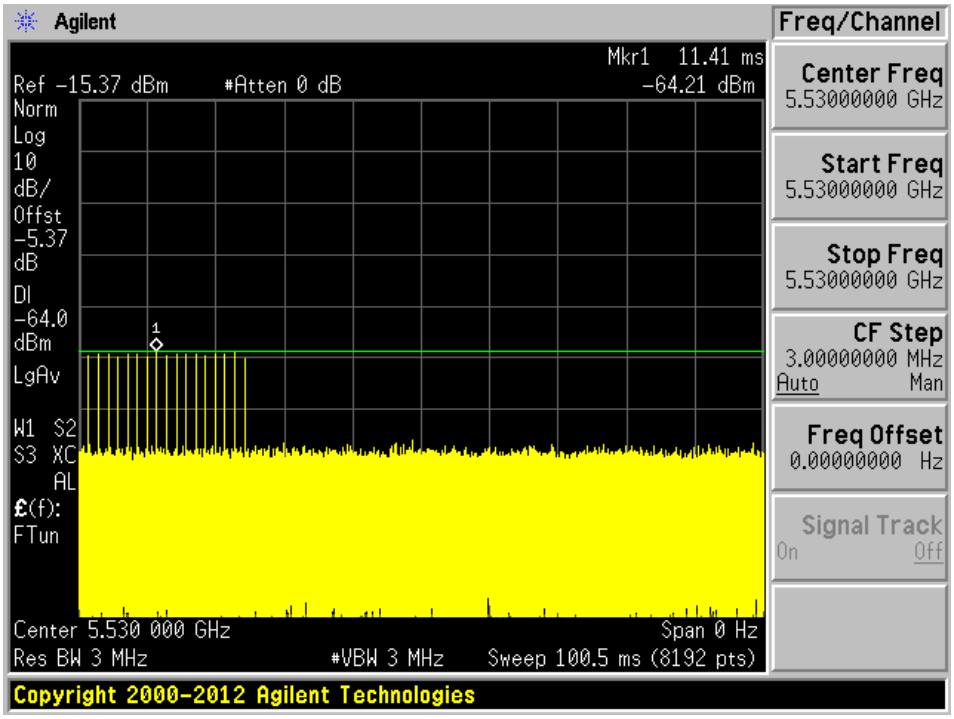


Radar Type 6

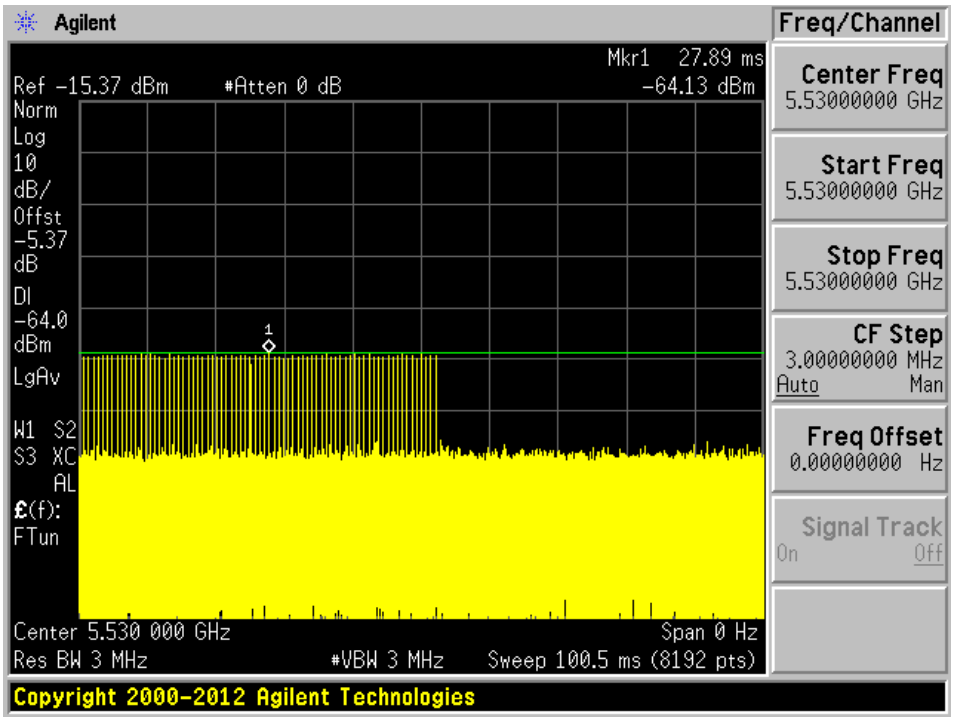


5530 MHz

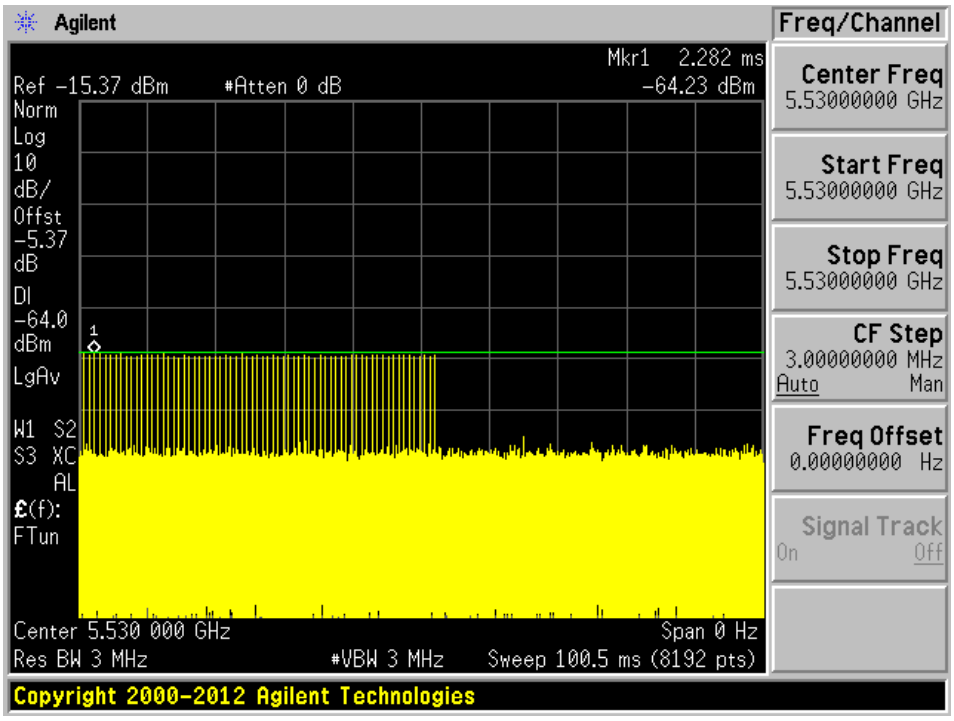
Radar Type 0



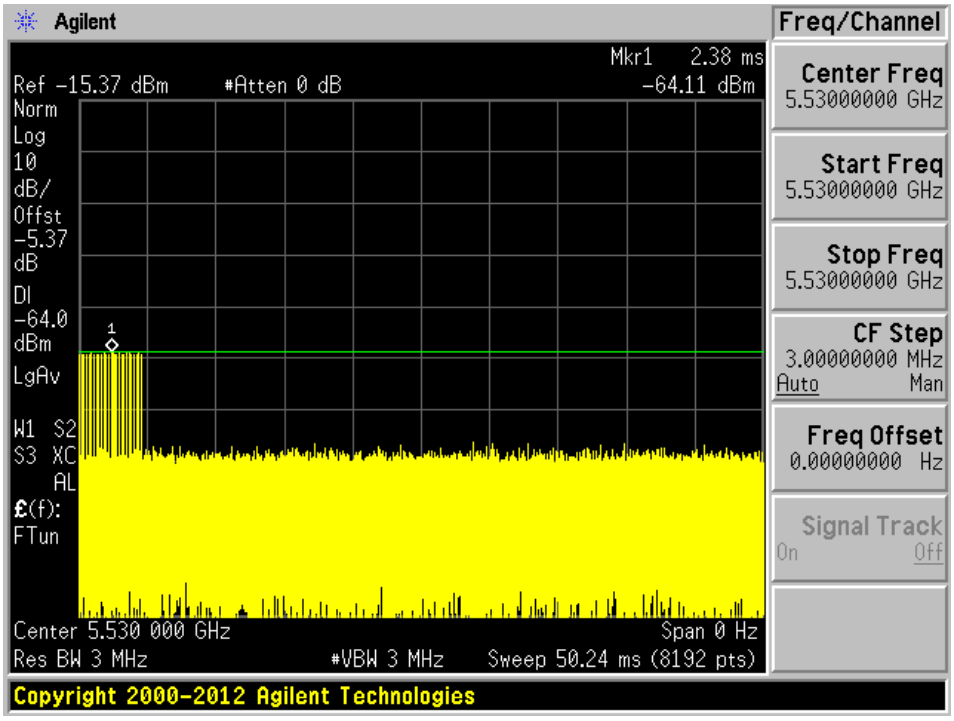
Radar Type 1A



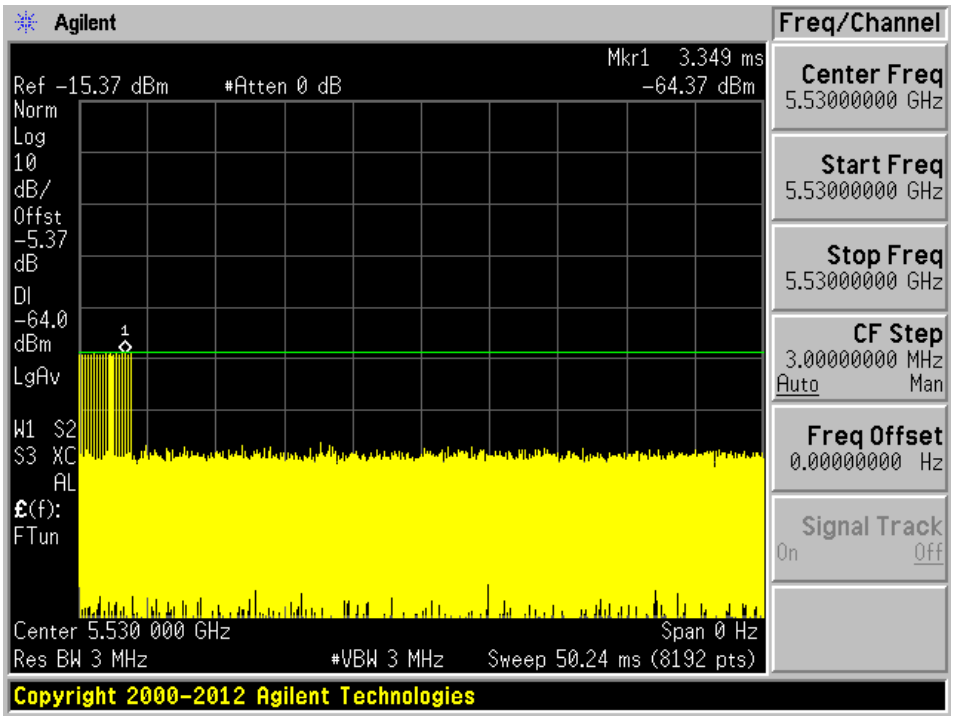
Radar Type 1B



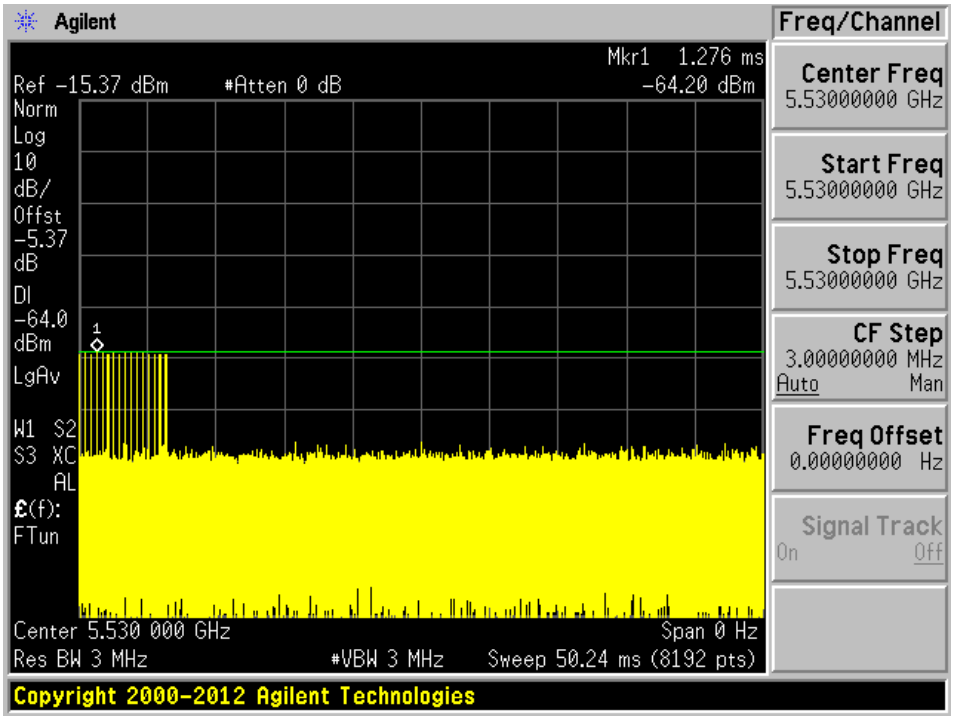
Radar Type 2



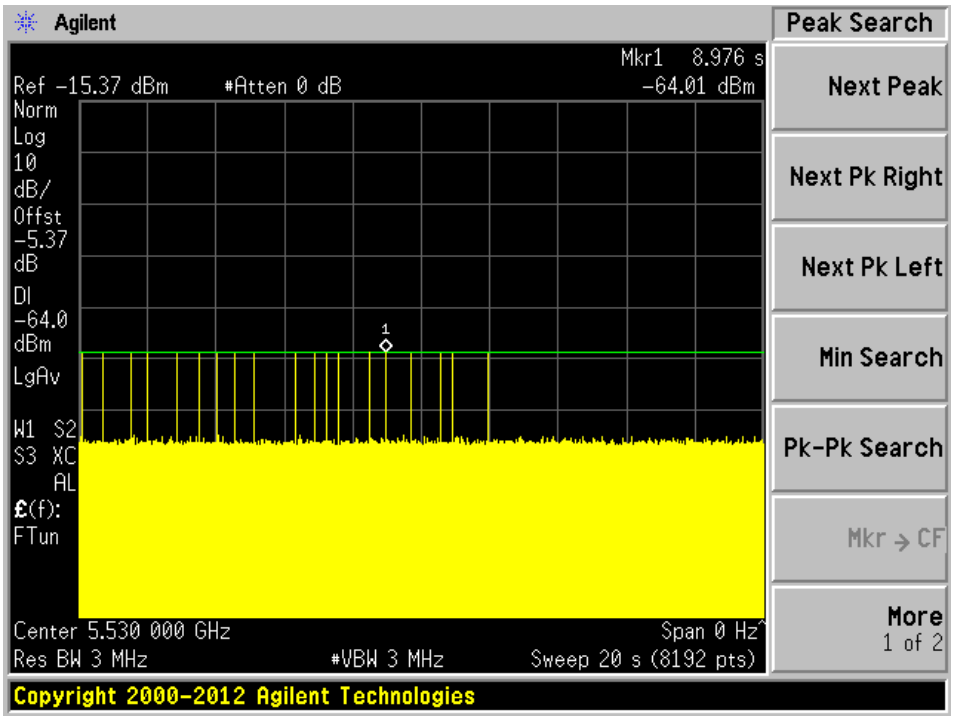
Radar Type 3



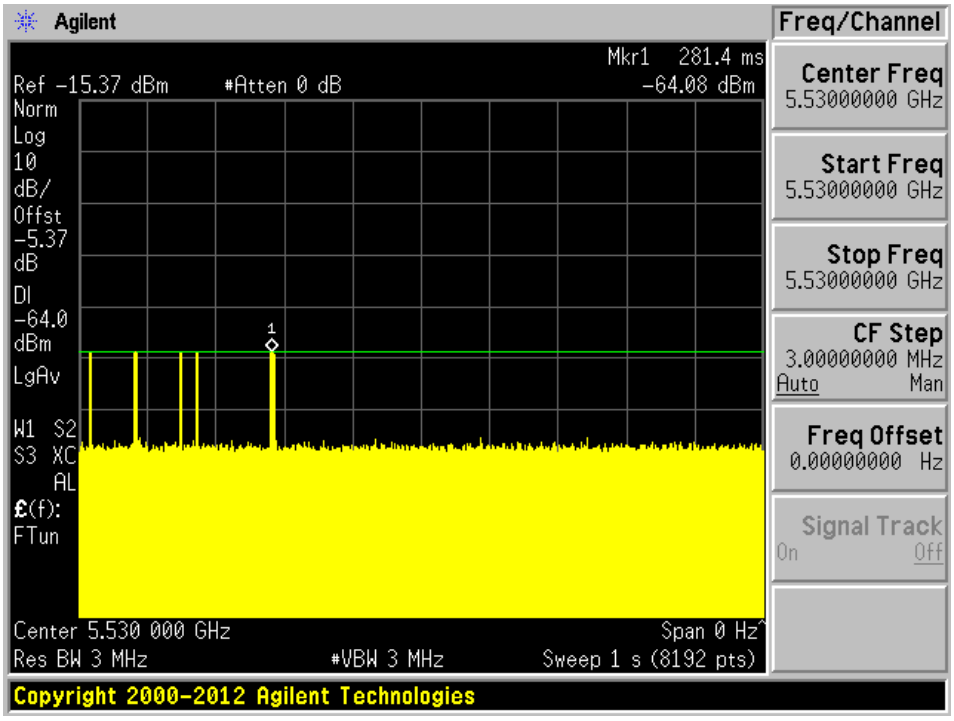
Radar Type 4



Radar Type 5



Radar Type 6



6 Channel Availability Check Time (CAC)

6.1 Test Procedure

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

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

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

EUT Initial power-up Cycle Time

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

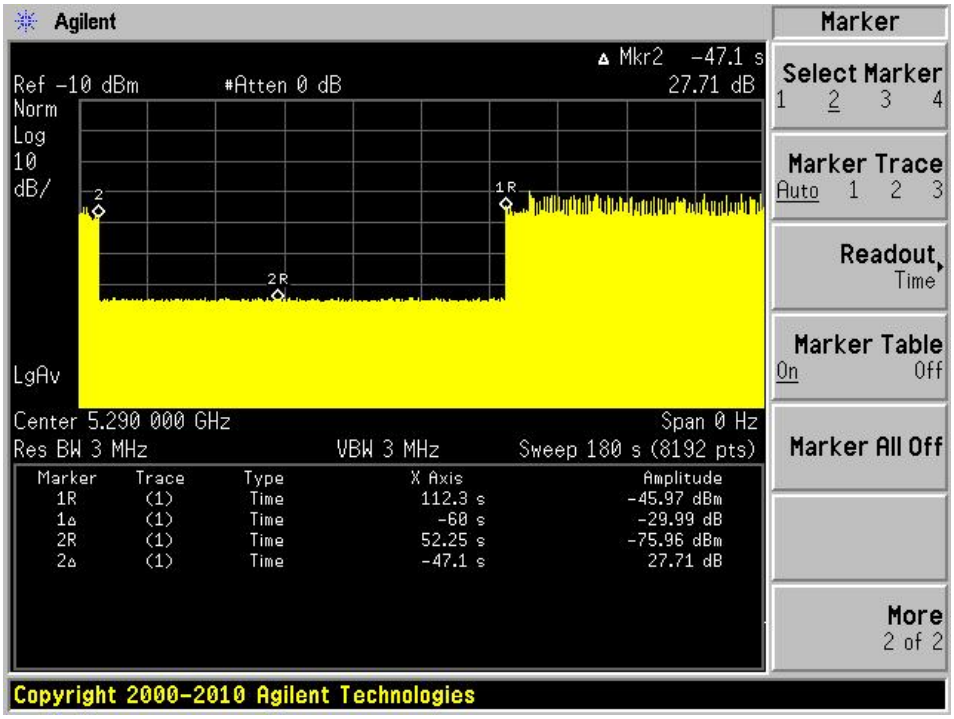
Results:

Timing of Radar Burst	Spectrum Analyzer Display	Result
No Radar Triggered	Transmission begin after power-up cycle +62 seconds CAC	Pass
Within 6 seconds of the CAC starting	No transmission	Pass
Within the last 6 seconds of the CAC	No transmission	Pass

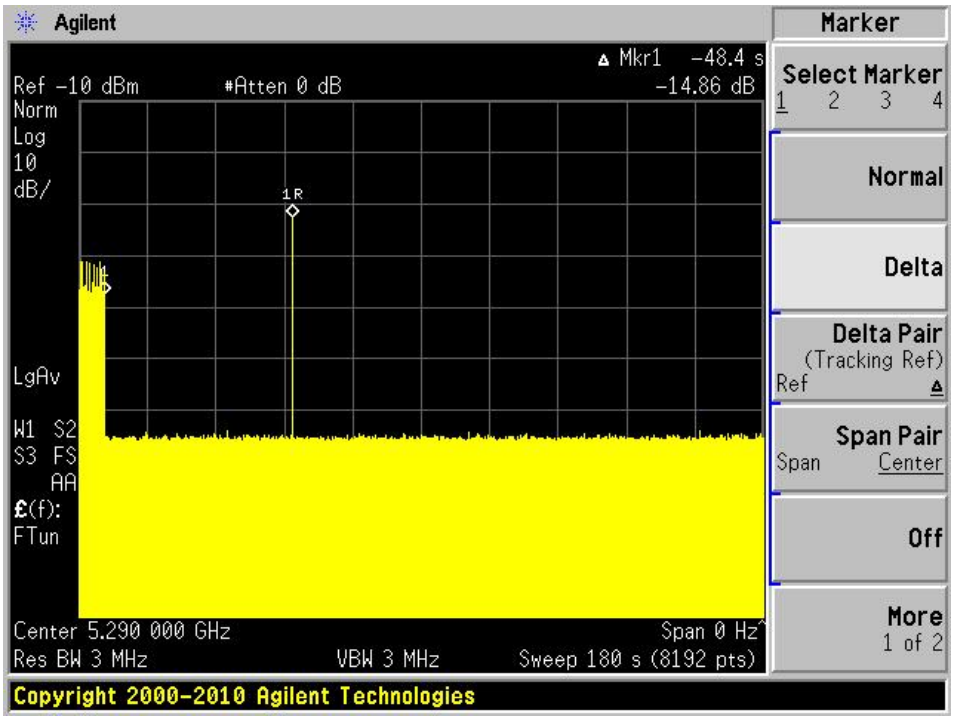
Note: The CAC test is with the Radar type 0.

5290 MHz

Plot of without Radar signal applied

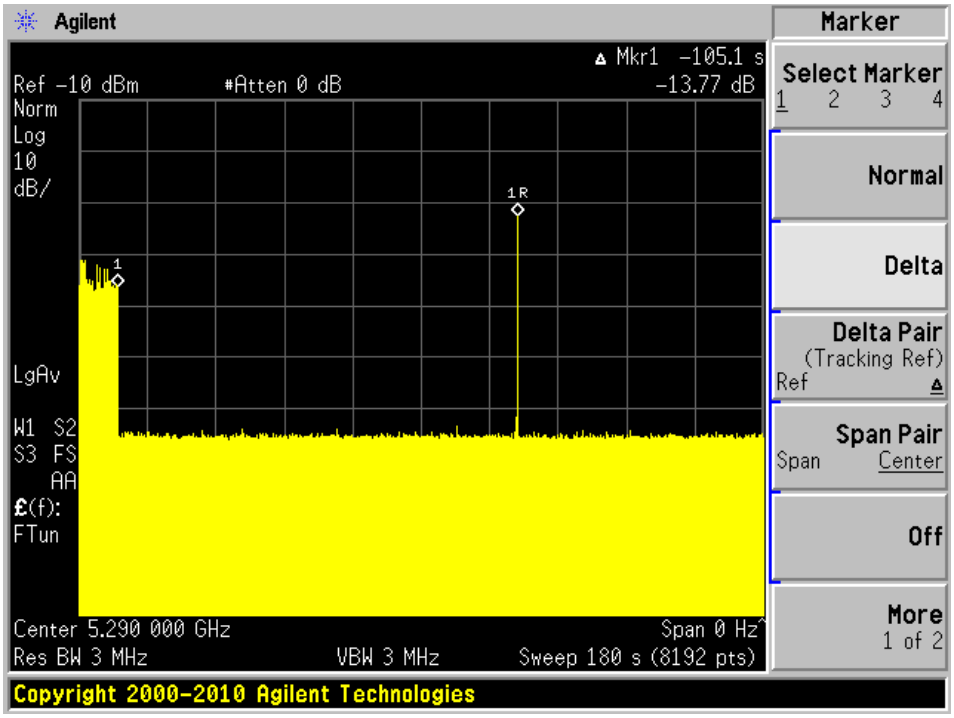


Plot of Radar signal applied within 6 seconds of start of CAC



No transmissions found after radar signal applied.

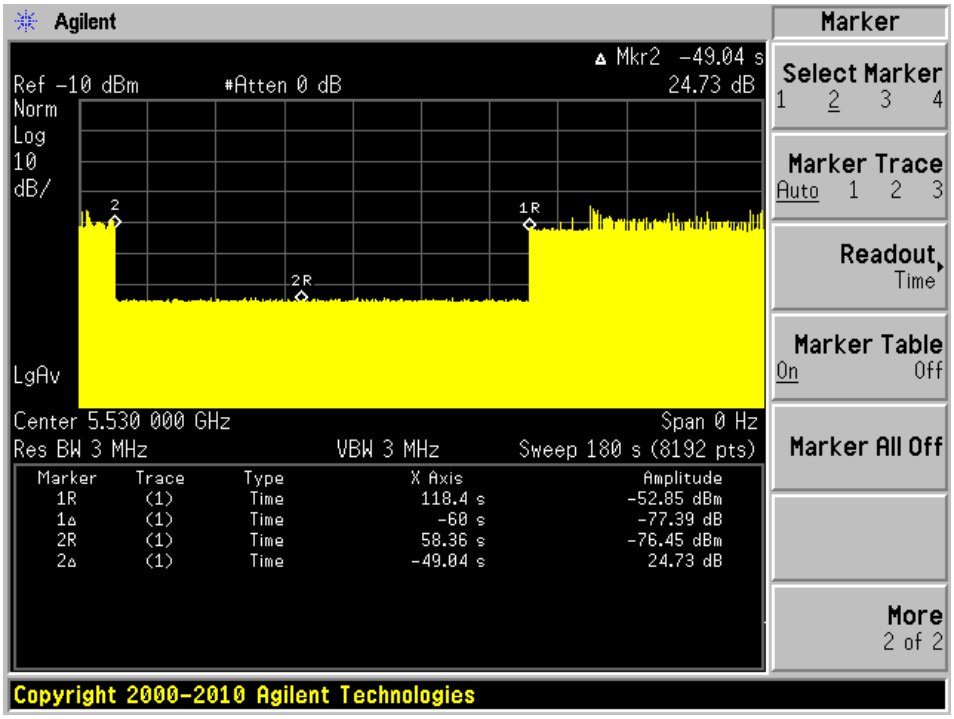
Plot of Radar signal applied at the end of 6 seconds of CAC



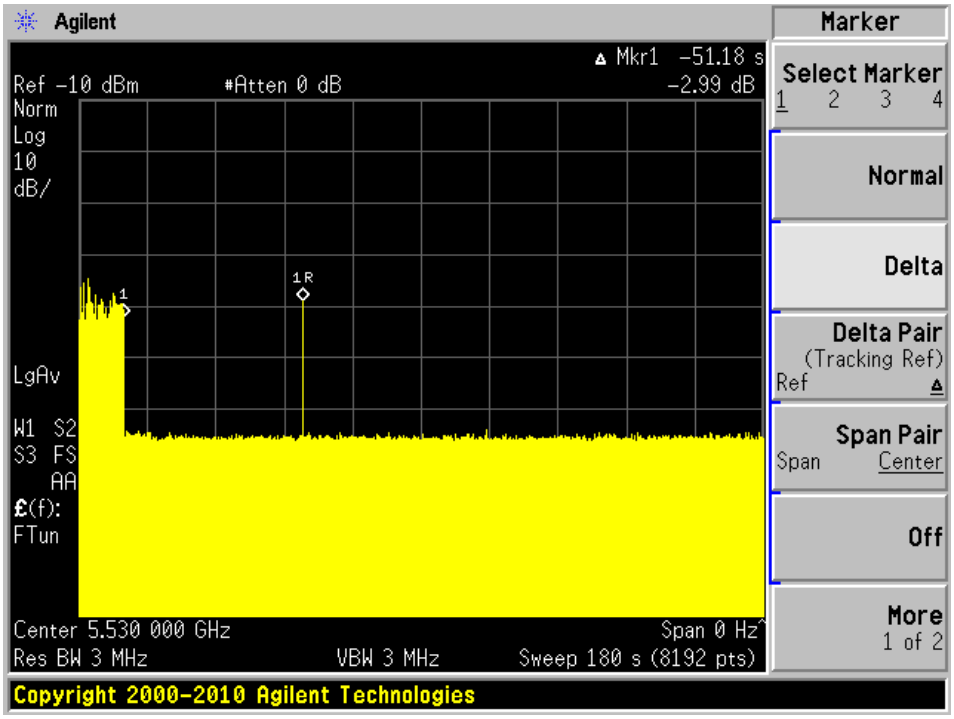
No transmissions found after radar signal applied.

5530 MHz

Plot of without Radar signal applied

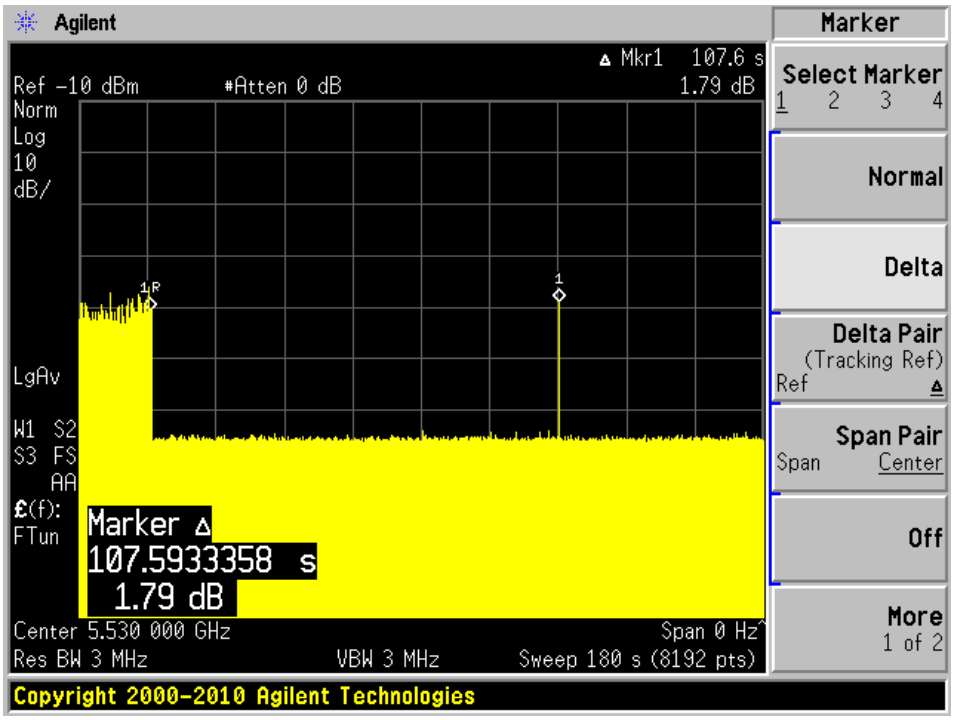


Plot of Radar signal applied within 6 seconds of start of CAC



No transmissions found after radar signal applied.

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



No transmissions found after radar signal applied.

7 Channel Move Time and Channel Closing Transmission Time

7.1 Test Procedure

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

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time = N * Dwell Time

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

7.2 Test Results

Frequency (MHz)	Bandwidth (MHz)	Radar Type	Results
5290	80	Type 0	Compliant
5530	80	Type 0	Compliant

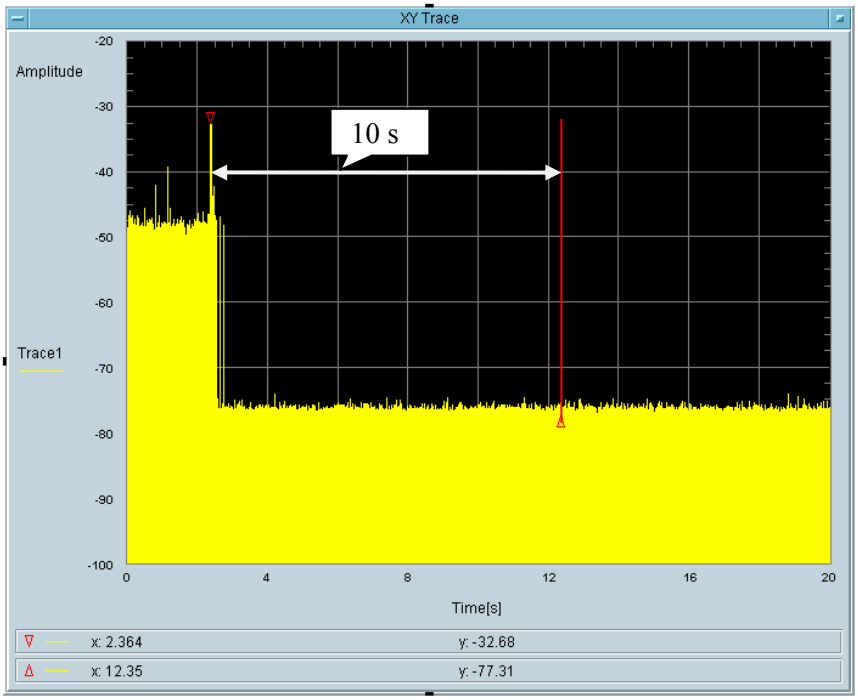
Please refer to the following tables and plots.

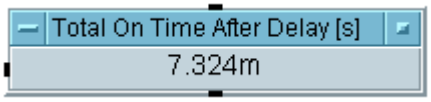
5290 MHz, Bandwidth 80 MHz

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

Channel closing transmitting time (ms)	Limit (ms)	Result
65.92 + 7.324	200+60	Pass

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



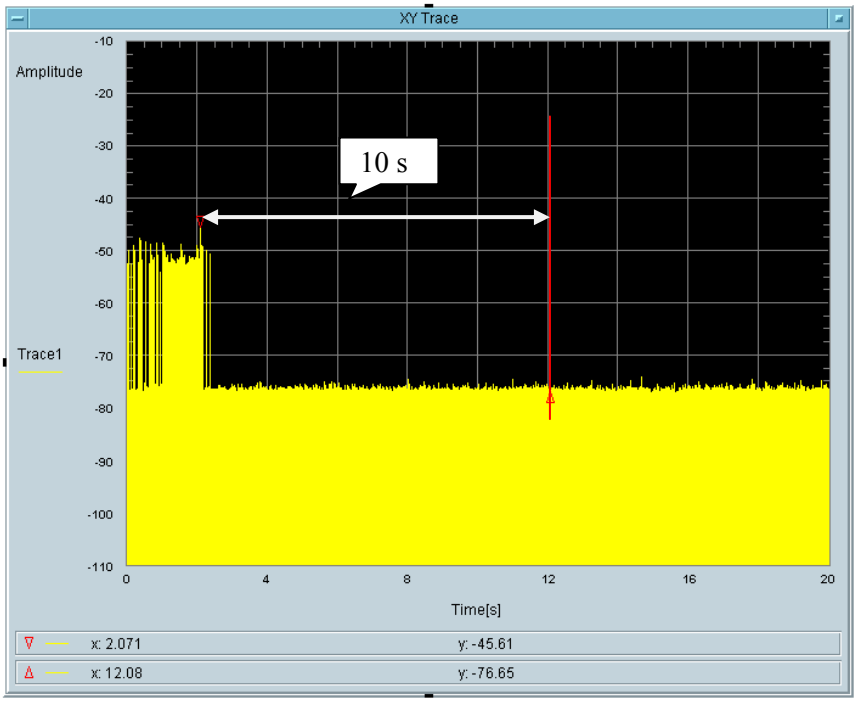


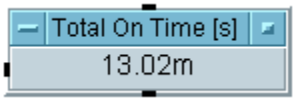
5530 MHz, Bandwidth 80 MHz

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

Channel closing transmitting time (ms)	Limit (ms)	Result
13.02	200+60	Pass

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





8 Non-Occupancy Period

8.1 Test Procedure

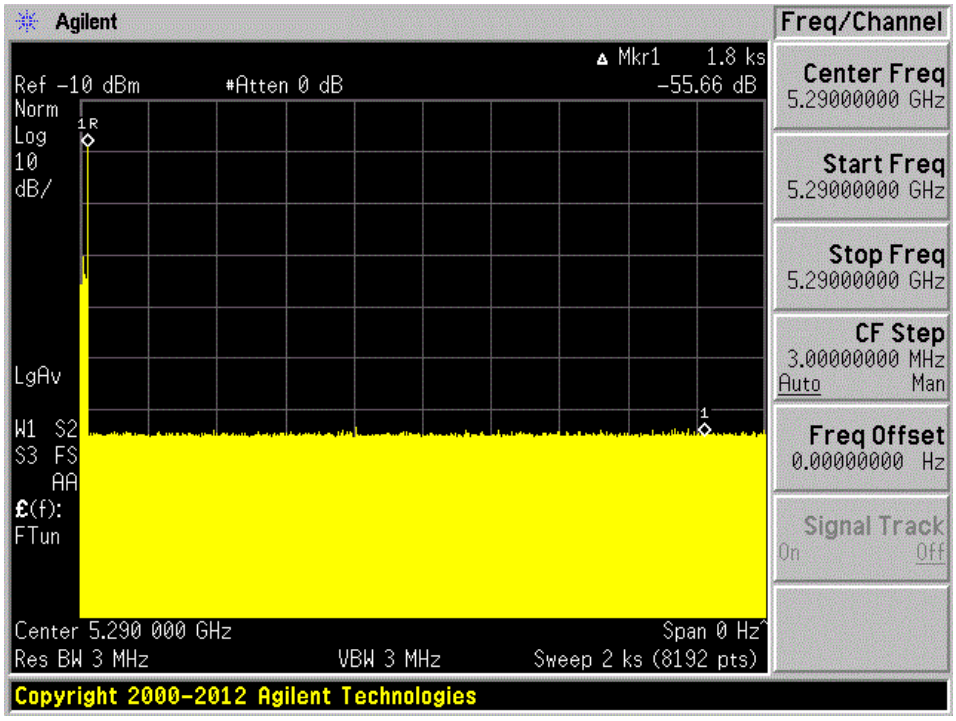
Measure the EUT for more than 30 minutes following the channel close/move time to very that the EUT does not resume any transmissions on this channel. Provide one plot to demonstrate no transmission on the channel for the non-occupancy period (30 minutes observation time)

8.2 Test Results

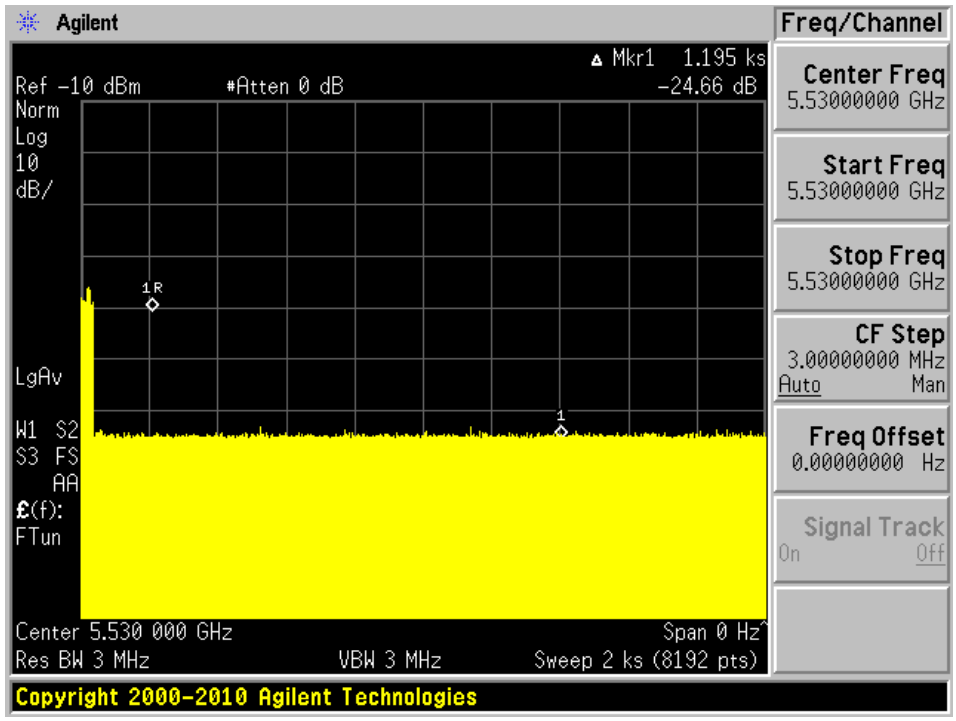
Frequency (MHz)	Bandwidth (MHz)	Spectrum Analyzer Display
5290	80	No transmission within 30 minutes
5530	80	No transmission within 30 minutes

Please refer to the following plots.

5290 MHz, Bandwidth 80 MHz



5530 MHz, Bandwidth 80 MHz



9 Radar Detection Bandwidth & Radar Detection Performance Check

9.1 Detection Bandwidth

Procedure:

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

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

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

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

Test Results

Frequency (MHz)	F_L (MHz)	F_H (MHz)	Detection Bandwidth (MHz)	Minimum Limit	Result
5270	5250	5290	40	100%	Compliance
5280	5270	5290	20	100%	Compliance
5290	5250	5330	80	100%	Compliance
5510	5490	5530	40	100%	Compliance
5520	5510	5530	20	100%	Compliance
5530	5490	5570	80	100%	Compliance

Please refer to the following tables.

Results of Detection Bandwidth:

EUT Frequency = 5280 MHz											
DFS Detection Trials (1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5269	0	0	0	0	0	0	0	0	0	0	0 %
5270(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5275	1	1	1	1	1	1	1	1	1	1	100 %
5280(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5285	1	1	1	1	1	1	1	1	1	1	100 %
5290(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5291	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = $F_H - F_L$=5290-5270=20 MHz											
EUT 99% OBW = 17 MHz; 17 x 100% = 17 MHz **Result:** Pass											

EUT Frequency = 5520 MHz											
DFS Detection Trials (1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5509	0	0	0	0	0	0	0	0	0	0	0 %
5510(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5515	1	1	1	1	1	1	1	1	1	1	100 %
5520(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5525	1	1	1	1	1	1	1	1	1	1	100 %
5530(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5531	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = $F_H - F_L$=5530-5510=20 MHz											
EUT 99% OBW = 17 MHz; 17 x 100% = 17 MHz **Result:** Pass											

Results of Detection Bandwidth:

EUT Frequency = 5270 MHz											
DFS Detection Trials (1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5249	0	0	0	0	0	0	0	0	0	0	0 %
5250(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5255	1	1	1	1	1	1	1	1	1	1	100 %
5260	1	1	1	1	1	1	1	1	1	1	100 %
5265	1	1	1	1	1	1	1	1	1	1	100 %
5270(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5275	1	1	1	1	1	1	1	1	1	1	100 %
5280	1	1	1	1	1	1	1	1	1	1	100 %
5285	1	1	1	1	1	1	1	1	1	1	100 %
5290(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5291	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = $F_H - F_L$=5290-5250=40 MHz											
EUT 99% OBW = 37 MHz; 37 x 100% = 37 MHz **Result:** Pass											

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

Results of Detection Bandwidth:

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

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

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:

5280 MHz, 20 MHz Bandwidth

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

Please refer to the following statistical tables:

5280 MHz, 20 MHz Bandwidth

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

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5280	89	1	598	1
2	5280	95	1	558	1
3	5280	99	1	538	1
4	5280	68	1	778	1
5	5280	59	1	898	1
6	5280	92	1	578	1
7	5280	83	1	638	1
8	5280	74	1	718	1
9	5280	70	1	758	1
10	5280	67	1	798	1
11	5280	72	1	738	1
12	5280	58	1	918	1
13	5280	65	1	818	1
14	5280	76	1	698	1
15	5280	18	1	3066	1
16	5280	36	1	1474	1
17	5280	24	1	2239	1
18	5280	47	1	1137	1
19	5280	19	1	2818	1
20	5280	35	1	1518	1
21	5280	19	1	2902	1
22	5280	24	1	2262	1
23	5280	31	1	1726	1
24	5280	44	1	1220	1
25	5280	23	1	2368	1
26	5280	18	1	2947	1
27	5280	79	1	673	1
28	5280	35	1	1544	1
29	5280	20	1	2709	1
30	5280	65	1	816	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	5280	26	2.2	150	1
2	5280	28	3.1	196	1
3	5280	24	1.4	209	1
4	5280	25	1.8	156	1
5	5280	23	1.7	229	1
6	5280	28	3.1	202	1
7	5280	26	3.8	206	1
8	5280	26	4.9	174	1
9	5280	28	3.2	190	1
10	5280	28	4	155	1
11	5280	27	2	182	1
12	5280	28	3.5	209	1
13	5280	24	4	196	1
14	5280	27	4.9	229	1
15	5280	23	3	171	1
16	5280	23	4.3	156	1
17	5280	26	1.5	162	1
18	5280	28	2.6	182	1
19	5280	28	1.6	203	1
20	5280	27	4.4	166	1
21	5280	29	3.5	168	1
22	5280	27	4.2	195	1
23	5280	24	2.6	200	1
24	5280	23	3.4	189	1
25	5280	28	4.6	189	1
26	5280	23	3.2	224	1
27	5280	26	4.2	189	1
28	5280	25	3.7	225	1
29	5280	24	2.8	218	1
30	5280	28	3.6	213	1
Detection Percentage: 100 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5280	17	7.1	443	1
2	5280	18	8.1	469	1
3	5280	17	9.3	341	1
4	5280	17	7.2	432	1
5	5280	16	9.2	451	1
6	5280	17	9.5	216	1
7	5280	17	7	332	1
8	5280	16	9.9	480	1
9	5280	17	9.5	382	1
10	5280	17	8.2	215	1
11	5280	18	7.8	288	1
12	5280	17	8.8	401	1
13	5280	17	8.1	262	1
14	5280	18	7.8	309	1
15	5280	17	8.3	308	1
16	5280	17	7.7	457	1
17	5280	18	9.7	357	1
18	5280	16	8.8	227	1
19	5280	16	9.8	444	1
20	5280	16	6.9	498	1
21	5280	16	7.6	372	1
22	5280	16	10	360	1
23	5280	16	6	321	1
24	5280	18	6.7	495	1
25	5280	16	6.5	434	1
26	5280	16	9.1	274	1
27	5280	17	9.3	394	1
28	5280	16	8	324	1
29	5280	18	7.3	345	1
30	5280	17	6.7	451	1
Detection Percentage: 100 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5280	13	12.8	266	1
2	5280	16	18.9	387	1
3	5280	12	13.9	456	1
4	5280	13	17.1	317	1
5	5280	16	18.5	340	1
6	5280	14	13.3	442	1
7	5280	16	11	246	1
8	5280	13	18	357	1
9	5280	12	12.8	339	1
10	5280	16	17.1	241	1
11	5280	15	18.3	270	1
12	5280	13	13.6	359	1
13	5280	15	13	377	1
14	5280	12	19.1	399	1
15	5280	16	12.3	404	1
16	5280	12	13.5	225	1
17	5280	12	14.2	442	1
18	5280	14	12	414	1
19	5280	15	17.6	309	1
20	5280	15	16.7	447	1
21	5280	12	15.8	203	1
22	5280	12	16.8	290	1
23	5280	12	20	286	1
24	5280	16	15.7	433	1
25	5280	14	18.6	351	1
26	5280	14	16.3	317	1
27	5280	16	16.9	420	1
28	5280	12	11	494	1
29	5280	12	11	498	1
30	5280	16	14	277	1
Detection Percentage: 100% (>60%)					

Table-5 Radar Type 5 Statistical Performance

Trial #	Fc (MHz)	Detection (1:yes; 0:no)
1	5280	1
2	5280	1
3	5280	1
4	5280	1
5	5280	1
6	5280	1
7	5280	1
8	5280	1
9	5280	1
10	5280	1
11	5276.2	1
12	5276.2	1
13	5274.2	1
14	5274.6	1
15	5277.8	1
16	5278.6	1
17	5273.8	1
18	5277.8	1
19	5279	1
20	5276.2	1
21	5282.2	1
22	5281.0	1
23	5283.0	1
24	5285.0	1
25	5283.0	1
26	5284.6	1
27	5283.8	1
28	5283.4	1
29	5286.6	1
30	5286.2	1
Detection Percentage: 100 % (>80%)		

Bin5 Statistics 1

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	12	90	1869	1069	0.372478	
1	2	12	95.3	1562		0.805643	
2	2	12	51.1	1829		1.656963	
3	1	12	94.4			2.465361	
4	2	12	65.8	1648		3.152932	
5	3	12	72.3	1963	1877	3.909055	
6	2	12	68.4	1875		4.438369	
7	2	12	89.1	1645		5.217008	
8	2	12	87.2	1320		6.269238	1
9	2	12	64.1	1097		6.711712	
10	2	12	83.7	1168		7.724907	
11	1	12	71			7.835145	
12	2	12	83	1144		8.709768	
13	2	12	51.4	1981		9.611666	
14	2	12	78.7	1832		10.334811	
15	1	12	64.8			11.068425	
16	2	12	82.3	1416		11.437443	

Bin5 Statistics 2

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	10	54.4			0.248411	
1	2	10	65.9	1126		0.7684	
2	2	10	58.6	1907		1.664493	
3	2	10	94	1596		2.469392	
4	3	10	82.1	1108	1310	3.502292	
5	2	10	57.1	1685		4.316947	
6	3	10	52	1589	1079	4.878615	
7	1	10	51.7			5.67925	
8	1	10	59.8			6.658574	1
9	2	10	61	1011		6.999112	
10	2	10	85.5	1033		7.782111	
11	3	10	99.5	1092	1995	8.313656	
12	1	10	58			9.51983	
13	2	10	58.5	1815		9.892978	
14	1	10	94.6			10.842439	
15	2	10	81	1874		11.338915	

Bin5 Statistics 3

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	11	93.1	1738	1320	0.319288	
1	2	11	62.9	1345		2.342111	
2	2	11	57	1855		3.510801	
3	2	11	66	1829		4.038977	
4	2	11	95.8	1223		5.417738	1
5	1	11	79.7			7.811425	
6	3	11	99.9	1280	1247	8.295976	
7	2	11	58	1450		10.525416	
8	1	11	66.3			10.689158	

Bin5 Statistics 4

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	10	67.8	1137	1766	1.046839	1
1	2	10	72.2	1898		1.945796	
2	1	10	57.6			3.531811	
3	2	10	89.7	1851		4.683639	
4	2	10	90	1475		5.230309	
5	1	10	83.2			6.465307	
6	2	10	99.1	1841		8.193996	
7	3	10	87.9	1699	1126	9.281044	
8	2	10	79.9	1410		10.100296	
9	2	10	52.2	1213		11.325799	

Bin5 Statistics 5

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	8	94			0.700845	1
1	2	8	69.5	1859		1.104297	
2	3	8	59.1	1087	1521	2.278444	
3	1	8	66			3.034855	
4	2	8	75.6	1809		3.627887	
5	1	8	58.4			4.046093	
6	2	8	72.3	1812		5.168313	
7	3	8	55.3	1611	1209	6.205408	
8	3	8	84	1932	1834	6.707444	
9	2	8	96.3	1517		7.708368	
10	1	8	76.1			8.201279	
11	2	8	90.3	1698		9.149244	
12	2	8	56.2	1471		10.319996	
13	3	8	86.2	1701	1803	10.63921	
14	1	8	79.4			11.670653	

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	11	64.3	1714		0.733462	1
1	2	11	83.2	1549		0.932273	
2	3	11	65	1601	1001	2.153175	
3	2	11	96.8	1362		2.758471	
4	1	11	78.3			4.008354	
5	2	11	91.9	1692		5.0463	
6	1	11	56			5.472073	
7	1	11	78.1			6.370657	
8	2	11	96	1151		7.491195	
9	2	11	72.5	1102		7.84984	
10	2	11	63.7	1071		9.408652	
11	2	11	68.8	1980		9.696589	
12	1	11	92.1			10.479371	
13	2	11	77.4	1744		11.358641	

Bin5 Statistics 7

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	7	87.9	1459	1578	0.261002	1
1	2	7	64	1484		1.295966	
2	2	7	51.5	1649		2.554766	
3	2	7	70.2	1795		2.661836	
4	2	7	52.4	1054		4.275105	
5	2	7	93.3	1714		4.362106	
6	3	7	76.5	1981	1101	5.48117	
7	1	7	64.2			6.177349	
8	1	7	91.8			7.092062	
9	1	7	64.1			7.751176	
10	3	7	71.7	1713	1862	8.818737	
11	1	7	82.2			9.599999	
12	1	7	69.4			10.642446	
13	2	7	85.9	1539		11.670268	

Bin5 Statistics 8

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	6	57.8	1292		0.300517	1
1	2	6	87.2	1820		2.875929	
2	2	6	62	1629		3.967081	
3	2	6	96.7	1267		5.531834	
4	2	6	86.6	1175		6.491681	
5	2	6	85.1	1816		8.106849	
6	2	6	84.4	1939		9.086785	
7	2	6	59.8	1019		11.108086	

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	71.7			0.177675	1
1	3	12	73.2	1808	1146	1.033226	
2	1	12	56.3			1.262605	
3	2	12	73.7	1953		1.837044	
4	2	12	70.9	1579		2.821707	
5	2	12	94.5	1218		3.339786	
6	3	12	79.5	1281	1904	4.002304	
7	2	12	62.6	1900		4.621172	
8	3	12	63.9	1585	1922	5.133432	
9	2	12	69.5	1490		5.468576	
10	1	12	79.9			6.12596	
11	2	12	66.5	1877		6.874951	
12	3	12	95.2	1961	1698	7.694449	
13	1	12	64			8.115539	
14	2	12	65.9	1808		8.813617	
15	1	12	96.3			9.495867	
16	2	12	68	1815		9.816393	
17	3	12	63.7	1725	1580	10.283384	
18	2	12	53.1	1862		11.158232	
19	2	12	72.6	1370		11.861077	

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	13	56.4	1139		0.509379	
1	1	13	50.6			0.850448	
2	2	13	70.2	1209		1.296852	
3	2	13	81.4	1377		1.942874	
4	1	13	78.4			2.875655	
5	3	13	58.7	1625	1636	3.285467	
6	3	13	79.7	1724	1173	4.372498	
7	2	13	56.3	1331		4.808767	
8	2	13	72.4	1953		5.575472	
9	1	13	92.4			6.195892	1
10	2	13	83.4	1931		6.638527	
11	1	13	99.9			6.953267	
12	2	13	90.6	1062		8.005768	
13	2	13	87.9	1728		8.813407	
14	1	13	77.4			9.104505	
15	1	13	66.2			9.531074	
16	1	13	60.8			10.658035	
17	3	13	98.9	1881	1313	10.833163	
18	2	13	75.3	1501		11.749922	

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	13	81.5			0.575566	1
1	2	13	68.5	1132		1.239789	
2	2	13	82.2	1485		2.079038	
3	1	13	71.3			3.202271	
4	2	13	98.4	1158		3.691987	
5	2	13	90.9	1922		4.887579	
6	2	13	51.8	1541		5.290176	
7	1	13	93.5			6.373563	
8	3	13	59.8	1137	1453	6.947187	
9	1	13	51.3			8.006667	
10	2	13	56.6	1774		9.112249	
11	1	13	71.4			9.705409	
12	2	13	76.3	1515		10.881689	
13	1	13	96.9			11.244501	

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	13	92.8	1765	1767	0.384496	1
1	3	13	85.7	1105	1188	1.458148	
2	1	13	96.1			2.314026	
3	2	13	85.5	1444		3.038107	
4	2	13	79.6	1789		4.267191	
5	1	13	81.2			5.759549	
6	1	13	100			6.843829	
7	2	13	63.4	1502		7.03296	
8	1	13	72.7			8.758506	
9	2	13	94.9	1141		9.817752	
10	2	13	57.5	1087		10.515093	
11	2	13	70.3	1388		11.828359	

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	8	59.5	1111		0.515203	1
1	2	8	52.3	1947		2.830219	
2	1	8	50.3			3.330439	
3	3	8	94.5	1207	1952	5.276964	
4	2	8	66.4	1045		6.285099	
5	2	8	88.4	1347		8.622802	
6	2	8	99.5	1680		9.90543	
7	3	8	50.6	1024	1894	11.70352	

Bin5 Statistics 14

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	9	59.6			0.739065	1
1	2	9	97.2	1737		1.709704	
2	2	9	75.4	1026		2.858126	
3	2	9	86.7	1556		3.725747	
4	2	9	80.1	1295		4.053048	
5	2	9	74.8	1071		5.971569	
6	2	9	63.9	1121		6.587713	
7	2	9	91	1929		7.937502	
8	2	9	95.6	1152		8.230137	
9	2	9	69.2	1862		9.306556	
10	3	9	51.5	1621	1520	10.080043	
11	2	9	87.3	1088		11.629634	

Bin5 Statistics 15

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	17	86.7	1072	1742	0.080678	
1	2	17	69.9	1856		1.77354	
2	1	17	55.9			3.088709	
3	1	17	50.9			3.41292	
4	3	17	57.9	1059	1913	4.922609	
5	2	17	64	1521		5.529513	1
6	2	17	86.2	1023		6.988527	
7	2	17	88.9	1405		7.705871	
8	1	17	70.6			9.525185	
9	2	17	79	1633		10.011618	
10	1	17	86.3			11.054476	

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	19	80.9	1803		0.779691	
1	3	19	61.9	1789	1385	1.752908	
2	3	19	67.6	1219	1147	2.137377	
3	2	19	95.4	1741		3.142703	
4	3	19	79.1	1101	1301	4.290949	
5	2	19	93.1	1364		5.229629	
6	2	19	80.4	1113		6.330586	1
7	2	19	73.6	1656		6.620706	
8	1	19	82.4			8.164349	
9	1	19	57.9			8.331432	
10	3	19	61.1	1385	1022	10.09842	
11	3	19	86.6	1980	1288	10.544275	
12	1	19	89.1			11.956741	

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	54.8			1.015608	
1	2	7	52.1	1145		1.390802	
2	2	7	81.2	1034		3.652246	
3	2	7	75.5	1742		4.951977	
4	2	7	52.9	1834		5.828976	1
5	2	7	70.1	1144		7.585425	
6	2	7	76.2	1983		8.893526	
7	1	7	81.4			9.429897	
8	2	7	74.1	1777		11.326791	

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	17	73.9	1619		0.139729	
1	2	17	88.1	1333		1.036806	
2	2	17	78.4	1386		1.493146	
3	2	17	94.5	1267		1.855683	
4	2	17	53.6	1136		2.962987	
5	2	17	89.9	1914		3.425017	
6	3	17	94.2	1204	1259	4.018643	
7	3	17	98.9	1124	1214	4.60836	
8	1	17	77.5			5.14942	
9	2	17	83	1457		5.63962	
10	2	17	97.8	1842		6.199049	1
11	1	17	61.7			6.858232	
12	1	17	55.1			7.79651	
13	3	17	63.5	1382	1129	8.284417	
14	2	17	97.2	1896		8.853636	
15	2	17	81.4	1280		9.49965	
16	2	17	62.4	1210		9.863388	
17	2	17	53.2	1957		10.591101	
18	2	17	74.3	1444		10.809408	
19	2	17	65.6	1136		11.923078	

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	20	80	1335	1754	0.319649	
1	3	20	83.7	1934	1210	1.456198	
2	3	20	97.6	1482	1545	2.154212	
3	1	20	75.4			2.87411	
4	2	20	73.7	1867		4.219597	
5	2	20	61.7	1156		4.71316	
6	3	20	91.3	1397	1455	5.928249	1
7	1	20	50.9			7.314587	
8	1	20	53.1			8.105103	
9	1	20	72.6			8.817578	
10	2	20	54.6	1997		9.721037	
11	1	20	94.3			10.25422	
12	3	20	96.5	1823	1143	11.473326	

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	90.3	1032	1303	0.575138	
1	2	13	69.8	1605		1.766384	
2	3	13	76.9	1054	1485	2.253154	
3	1	13	97.9			2.950909	
4	1	13	96.4			4.386467	
5	2	13	80.9	1696		5.211264	
6	3	13	94.2	1325	1174	6.073184	1
7	1	13	79.3			6.613877	
8	2	13	60.2	1886		7.509905	
9	3	13	71.3	1239	1171	8.405061	
10	3	13	71.8	1253	1586	9.892502	
11	1	13	71.1			11.038338	
12	3	13	65.3	1820	1717	11.774973	

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	17	64.8	1310	1900	1.089524	1
1	1	17	84.2			1.924625	
2	2	17	68	1099		3.713124	
3	3	17	53.4	1998	1535	5.072232	
4	2	17	78	1181		6.470586	
5	2	17	53.8	1142		7.088162	
6	2	17	85	1409		8.231993	
7	1	17	94			10.012172	
8	2	17	72	1387		10.776032	

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	96.1	1578		0.346828	1
1	1	20	71.4			1.222918	
2	2	20	52.2	1409		1.989156	
3	2	20	63.2	1676		3.034706	
4	1	20	77.4			3.647857	
5	1	20	99.2			4.939491	
6	3	20	51.7	1720	1520	5.489107	
7	2	20	51	1947		6.131982	
8	2	20	82.8	1304		6.863983	
9	2	20	84.6	1698		8.005345	
10	3	20	61.8	1630	1375	8.883835	
11	3	20	54.4	1982	1605	10.12426	
12	2	20	65.3	1308		10.654757	
13	3	20	67.9	1153	1499	11.382776	

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	15	73	1032		0.71576	
1	2	15	64.8	1123		1.74277	
2	2	15	74.3	1152		3.076069	
3	2	15	97.5	1923		4.766854	
4	2	15	79.7	1954		6.473303	1
5	2	15	94.4	1542		6.846162	
6	3	15	71.3	1550	1598	8.740273	
7	2	15	60.7	1880		9.958123	
8	1	15	90.7			11.467859	

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	10	52.2	1156		0.432801	
1	3	10	66.2	1702	1617	1.092605	
2	3	10	73.9	1817	1317	1.609516	
3	1	10	57.9			3.149261	
4	3	10	52.1	1690	1060	3.918428	
5	2	10	87.9	1606		4.618796	
6	2	10	90.4	1355		5.157992	
7	2	10	51.6	1965		5.843852	1
8	3	10	72.3	1177	1697	6.44	
9	2	10	99.9	1472		7.836121	
10	3	10	87.3	1438	1881	8.172578	
11	2	10	92.9	1284		8.831364	
12	1	10	90.8			10.284778	
13	3	10	91.7	1001	1592	10.92297	
14	2	10	76.8	1682		11.294987	

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	15	93.9	1063		0.291789	1
1	3	15	81.8	1264	1416	2.102502	
2	2	15	75.2	1950		2.986439	
3	2	15	96.5	1678		4.180378	
4	1	15	78.2			4.838337	
5	3	15	65	1205	1780	6.763481	
6	2	15	58.2	1621		8.260963	
7	2	15	59	1824		8.468284	
8	1	15	77.6			9.783481	
9	1	15	62.2			11.957637	

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	11	72.9	1918		0.052536	1
1	3	11	63	1428	1172	0.995214	
2	1	11	84.9			1.879329	
3	3	11	57	1644	1062	1.912022	
4	2	11	61.8	1112		2.620628	
5	1	11	69			3.691039	
6	2	11	95.7	1966		3.971447	
7	3	11	82.5	1291	1825	4.803334	
8	3	11	53.9	1921	1766	5.356844	
9	2	11	55.2	1614		5.772805	
10	2	11	53.3	1833		6.745225	
11	1	11	64.5			7.539624	
12	3	11	82.5	1326	1785	7.779298	
13	3	11	76.9	1095	1624	8.436261	
14	3	11	94.3	1046	1775	9.286741	
15	3	11	74.6	1811	1530	10.057423	
16	1	11	75.2			10.33605	
17	1	11	79.8			11.30753	
18	2	11	86.1	1697		11.666623	

Bin5 Statistics 27

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	13	67.9	1578		0.157067	1
1	2	13	74.9	1706		1.311792	
2	3	13	70	1355	1153	2.970462	
3	3	13	84.7	1915	1443	3.632678	
4	1	13	55.3			5.170195	
5	2	13	68.8	1791		6.148948	
6	1	13	58.1			8.318871	
7	2	13	75.2	1360		8.542563	
8	2	13	99.7	1816		10.147773	
9	1	13	57.5			11.581385	

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	14	76.9			0.373482	1
1	2	14	58.7	1621		0.793069	
2	1	14	85.3			1.766208	
3	2	14	74.3	1551		2.202826	
4	3	14	52.3	1511	1308	3.287808	
5	3	14	95.6	1203	1679	3.932704	
6	2	14	90.7	1448		4.272227	
7	1	14	55.2			5.175473	
8	2	14	75.9	1789		5.929182	
9	2	14	74.6	1220		6.380814	
10	2	14	94.6	1306		6.721978	
11	1	14	63.7			7.860013	
12	2	14	57.2	1651		8.658318	
13	2	14	53.2	1510		8.978263	
14	2	14	83.1	1933		9.47299	
15	2	14	86.1	1686		10.573163	
16	2	14	97.6	1381		11.237413	
17	1	14	91.4			11.468422	

Bin5 Statistics 29

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	6	50.9	1148	1335	0.42277	
1	3	6	55.6	1477	1983	2.025867	
2	1	6	57.4			3.149671	
3	2	6	73.1	1253		4.226719	
4	2	6	64.8	1091		4.778683	
5	2	6	92.9	1883		5.908793	1
6	2	6	67.7	1496		6.98467	
7	1	6	76.7			7.72417	
8	1	6	88.2			9.43639	
9	2	6	94.6	1688		10.137985	
10	2	6	80.6	1426		11.507054	

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	7	77.8	1294		1.207004	
1	2	7	53.6	1256		1.866677	
2	2	7	52	1393		3.503044	
3	1	7	55.1			4.564003	
4	2	7	95.2	1244		6.01895	1
5	1	7	98.2			7.869112	
6	2	7	75.7	1758		9.253276	
7	1	7	96.4			9.906993	
8	1	7	73.5			11.189797	

Table-6 Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)	Hopping Sequence
1	5280	9	1	333	1	5475.0, 5510.0, 5648.0, 5328.0, 5561.0, 5580.0, 5300.0, 5394.0, 5288.0, 5470.0, 5540.0, 5674.0, 5376.0, 5286.0, 5251.0, 5603.0, 5602.0, 5498.0, 5655.0, 5724.0, 5613.0, 5322.0, 5622.0, 5598.0, 5398.0, 5281.0, 5652.0, 5609.0, 5657.0, 5386.0, 5417.0, 5408.0, 5375.0, 5261.0, 5675.0, 5608.0, 5679.0, 5538.0, 5323.0, 5589.0, 5544.0, 5336.0, 5430.0, 5546.0, 5335.0, 5636.0, 5529.0, 5630.0, 5537.0, 5403.0, 5407.0, 5372.0, 5277.0, 5512.0, 5623.0, 5387.0, 5717.0, 5326.0, 5646.0, 5543.0, 5351.0, 5332.0, 5704.0, 5352.0, 5421.0, 5682.0, 5619.0, 5654.0, 5502.0, 5691.0, 5263.0, 5500.0, 5305.0, 5284.0, 5402.0, 5447.0, 5712.0, 5265.0, 5650.0, 5479.0, 5555.0, 5313.0, 5705.0, 5683.0, 5347.0, 5686.0, 5253.0, 5639.0, 5614.0, 5521.0, 5466.0, 5625.0, 5606.0, 5268.0, 5346.0, 5660.0, 5319.0, 5344.0, 5256.0, 5366.0 (number of hits: 5)
2	5280	9	1	333	1	5664.0, 5300.0, 5389.0, 5445.0, 5705.0, 5429.0, 5529.0, 5462.0, 5371.0, 5647.0, 5333.0, 5387.0, 5400.0, 5659.0, 5330.0, 5254.0, 5654.0, 5646.0, 5369.0, 5689.0, 5402.0, 5693.0, 5476.0, 5276.0, 5262.0, 5503.0, 5303.0, 5555.0, 5649.0, 5534.0, 5346.0, 5331.0, 5552.0, 5548.0, 5561.0, 5653.0, 5257.0, 5365.0, 5428.0, 5583.0, 5485.0, 5499.0, 5665.0, 5719.0, 5337.0, 5623.0, 5622.0, 5294.0, 5702.0, 5336.0, 5624.0, 5571.0, 5326.0, 5261.0, 5619.0, 5453.0, 5399.0, 5643.0, 5393.0, 5398.0, 5411.0, 5422.0, 5258.0, 5408.0, 5313.0, 5598.0, 5426.0, 5600.0, 5723.0, 5716.0, 5570.0, 5592.0, 5531.0, 5443.0, 5363.0, 5392.0, 5492.0, 5691.0, 5708.0, 5366.0, 5255.0, 5451.0, 5538.0, 5318.0, 5577.0, 5418.0, 5260.0, 5293.0, 5368.0, 5397.0, 5528.0, 5558.0, 5518.0, 5483.0, 5536.0, 5431.0, 5612.0, 5362.0, 5505.0, 5287.0 (number of hits: 2)
3	5280	9	1	333	1	5556.0, 5604.0, 5325.0, 5457.0, 5363.0, 5391.0, 5492.0, 5641.0, 5484.0, 5612.0, 5705.0, 5464.0, 5324.0, 5437.0, 5701.0, 5503.0, 5303.0, 5351.0, 5517.0, 5544.0, 5582.0, 5262.0, 5315.0, 5443.0, 5664.0, 5362.0, 5354.0, 5409.0, 5257.0, 5706.0, 5302.0, 5413.0, 5373.0, 5550.0, 5360.0, 5486.0, 5382.0, 5335.0, 5540.0, 5518.0, 5536.0, 5591.0, 5441.0, 5305.0, 5493.0, 5289.0, 5440.0, 5674.0, 5546.0, 5547.0, 5563.0, 5397.0, 5649.0, 5319.0, 5693.0,

						5461.0, 5424.0, 5456.0, 5281.0, 5573.0, 5301.0, 5295.0, 5584.0, 5665.0, 5502.0, 5396.0, 5555.0, 5620.0, 5696.0, 5274.0, 5326.0, 5619.0, 5399.0, 5430.0, 5386.0, 5271.0, 5500.0, 5316.0, 5320.0, 5470.0, 5483.0, 5498.0, 5625.0, 5662.0, 5400.0, 5352.0, 5596.0, 5651.0, 5318.0, 5630.0, 5680.0, 5529.0, 5721.0, 5432.0, 5330.0, 5622.0, 5392.0, 5595.0, 5414.0, 5681.0 (number of hits: 3)
4	5280	9	1	333	1	5403.0, 5296.0, 5502.0, 5418.0, 5451.0, 5542.0, 5458.0, 5499.0, 5445.0, 5557.0, 5454.0, 5401.0, 5406.0, 5521.0, 5283.0, 5533.0, 5323.0, 5711.0, 5364.0, 5720.0, 5459.0, 5485.0, 5648.0, 5516.0, 5298.0, 5307.0, 5622.0, 5636.0, 5435.0, 5500.0, 5360.0, 5461.0, 5661.0, 5507.0, 5617.0, 5520.0, 5545.0, 5694.0, 5342.0, 5433.0, 5640.0, 5597.0, 5399.0, 5526.0, 5497.0, 5594.0, 5513.0, 5377.0, 5647.0, 5701.0, 5365.0, 5318.0, 5512.0, 5574.0, 5348.0, 5550.0, 5635.0, 5347.0, 5696.0, 5660.0, 5278.0, 5595.0, 5543.0, 5293.0, 5312.0, 5678.0, 5665.0, 5511.0, 5529.0, 5266.0, 5310.0, 5417.0, 5456.0, 5295.0, 5250.0, 5413.0, 5695.0, 5585.0, 5603.0, 5273.0, 5710.0, 5352.0, 5446.0, 5564.0, 5441.0, 5583.0, 5405.0, 5515.0, 5320.0, 5627.0, 5359.0, 5252.0, 5311.0, 5676.0, 5346.0, 5535.0, 5415.0, 5392.0, 5493.0, 5715.0 (number of hits: 3)
5	5280	9	1	333	1	5719.0, 5285.0, 5678.0, 5463.0, 5261.0, 5291.0, 5523.0, 5273.0, 5469.0, 5480.0, 5377.0, 5268.0, 5299.0, 5654.0, 5454.0, 5278.0, 5628.0, 5574.0, 5340.0, 5344.0, 5313.0, 5290.0, 5275.0, 5348.0, 5496.0, 5618.0, 5306.0, 5308.0, 5289.0, 5704.0, 5668.0, 5351.0, 5335.0, 5577.0, 5638.0, 5304.0, 5338.0, 5478.0, 5664.0, 5341.0, 5352.0, 5716.0, 5722.0, 5432.0, 5472.0, 5671.0, 5364.0, 5343.0, 5380.0, 5718.0, 5329.0, 5456.0, 5322.0, 5274.0, 5596.0, 5712.0, 5708.0, 5627.0, 5448.0, 5661.0, 5327.0, 5298.0, 5319.0, 5440.0, 5682.0, 5658.0, 5667.0, 5415.0, 5692.0, 5717.0, 5381.0, 5281.0, 5531.0, 5500.0, 5558.0, 5580.0, 5423.0, 5485.0, 5680.0, 5697.0, 5491.0, 5405.0, 5465.0, 5666.0, 5464.0, 5603.0, 5359.0, 5502.0, 5625.0, 5484.0, 5288.0, 5693.0, 5626.0, 5399.0, 5659.0, 5601.0, 5498.0, 5430.0, 5662.0, 5315.0 (number of hits: 7)
6	5280	9	1	333	1	5704.0, 5258.0, 5664.0, 5662.0, 5542.0, 5342.0, 5438.0, 5432.0, 5622.0, 5403.0, 5332.0, 5631.0, 5423.0, 5475.0, 5567.0, 5369.0, 5671.0, 5458.0, 5651.0, 5378.0, 5549.0, 5309.0, 5688.0, 5538.0, 5343.0, 5334.0, 5700.0, 5388.0, 5468.0, 5720.0, 5569.0, 5382.0, 5443.0, 5544.0, 5677.0,

						5672.0, 5598.0, 5573.0, 5589.0, 5522.0, 5255.0, 5413.0, 5393.0, 5533.0, 5647.0, 5523.0, 5336.0, 5293.0, 5592.0, 5298.0, 5483.0, 5317.0, 5626.0, 5264.0, 5630.0, 5480.0, 5484.0, 5576.0, 5558.0, 5680.0, 5351.0, 5363.0, 5277.0, 5635.0, 5705.0, 5571.0, 5646.0, 5653.0, 5435.0, 5539.0, 5479.0, 5377.0, 5417.0, 5527.0, 5599.0, 5556.0, 5561.0, 5575.0, 5305.0, 5295.0, 5543.0, 5252.0, 5254.0, 5341.0, 5473.0, 5291.0, 5614.0, 5712.0, 5401.0, 5385.0, 5559.0, 5624.0, 5547.0, 5416.0, 5301.0, 5596.0, 5640.0, 5326.0, 5531.0, 5494.0 (number of hits: 1)
7	5280	9	1	333	1	5446.0, 5261.0, 5334.0, 5312.0, 5709.0, 5499.0, 5284.0, 5548.0, 5329.0, 5492.0, 5599.0, 5624.0, 5552.0, 5359.0, 5367.0, 5402.0, 5642.0, 5671.0, 5328.0, 5494.0, 5457.0, 5577.0, 5327.0, 5250.0, 5321.0, 5657.0, 5332.0, 5646.0, 5415.0, 5403.0, 5540.0, 5418.0, 5527.0, 5452.0, 5453.0, 5652.0, 5588.0, 5342.0, 5465.0, 5443.0, 5536.0, 5447.0, 5708.0, 5506.0, 5517.0, 5344.0, 5430.0, 5578.0, 5619.0, 5345.0, 5389.0, 5305.0, 5487.0, 5477.0, 5439.0, 5627.0, 5595.0, 5469.0, 5543.0, 5714.0, 5518.0, 5515.0, 5358.0, 5387.0, 5289.0, 5336.0, 5451.0, 5668.0, 5640.0, 5604.0, 5323.0, 5567.0, 5265.0, 5420.0, 5659.0, 5625.0, 5690.0, 5354.0, 5635.0, 5467.0, 5495.0, 5253.0, 5306.0, 5299.0, 5666.0, 5611.0, 5287.0, 5424.0, 5596.0, 5317.0, 5616.0, 5485.0, 5541.0, 5461.0, 5473.0, 5421.0, 5275.0, 5587.0, 5514.0, 5556.0 (number of hits: 3)
8	5280	9	1	333	1	5504.0, 5552.0, 5380.0, 5674.0, 5445.0, 5630.0, 5424.0, 5343.0, 5275.0, 5521.0, 5676.0, 5404.0, 5392.0, 5592.0, 5701.0, 5656.0, 5342.0, 5477.0, 5260.0, 5381.0, 5722.0, 5379.0, 5483.0, 5605.0, 5302.0, 5581.0, 5290.0, 5570.0, 5580.0, 5671.0, 5425.0, 5637.0, 5545.0, 5286.0, 5460.0, 5600.0, 5715.0, 5292.0, 5612.0, 5695.0, 5348.0, 5595.0, 5692.0, 5372.0, 5651.0, 5482.0, 5254.0, 5374.0, 5261.0, 5644.0, 5368.0, 5719.0, 5718.0, 5591.0, 5620.0, 5691.0, 5432.0, 5474.0, 5441.0, 5508.0, 5316.0, 5490.0, 5270.0, 5416.0, 5325.0, 5257.0, 5699.0, 5532.0, 5414.0, 5690.0, 5297.0, 5535.0, 5623.0, 5433.0, 5546.0, 5498.0, 5256.0, 5370.0, 5291.0, 5337.0, 5706.0, 5376.0, 5274.0, 5266.0, 5296.0, 5649.0, 5510.0, 5345.0, 5305.0, 5279.0, 5355.0, 5703.0, 5660.0, 5262.0, 5536.0, 5466.0, 5300.0, 5280.0, 5548.0, 5265.0 (number of hits: 5)
9	5280	9	1	333	1	5694.0, 5412.0, 5378.0, 5523.0, 5275.0, 5572.0, 5431.0, 5368.0, 5300.0, 5678.0, 5338.0, 5258.0, 5317.0, 5533.0, 5583.0,

						5507.0, 5663.0, 5454.0, 5327.0, 5720.0, 5649.0, 5494.0, 5611.0, 5337.0, 5631.0, 5589.0, 5279.0, 5682.0, 5332.0, 5264.0, 5391.0, 5362.0, 5465.0, 5293.0, 5722.0, 5402.0, 5648.0, 5660.0, 5546.0, 5524.0, 5458.0, 5684.0, 5618.0, 5440.0, 5343.0, 5564.0, 5474.0, 5686.0, 5643.0, 5521.0, 5348.0, 5260.0, 5456.0, 5705.0, 5683.0, 5710.0, 5656.0, 5441.0, 5462.0, 5272.0, 5473.0, 5304.0, 5437.0, 5303.0, 5422.0, 5387.0, 5469.0, 5281.0, 5612.0, 5396.0, 5251.0, 5498.0, 5383.0, 5654.0, 5414.0, 5657.0, 5475.0, 5712.0, 5621.0, 5407.0, 5674.0, 5276.0, 5291.0, 5376.0, 5622.0, 5687.0, 5448.0, 5289.0, 5395.0, 5561.0, 5392.0, 5718.0, 5668.0, 5597.0, 5666.0, 5375.0, 5557.0, 5361.0, 5393.0, 5271.0 (number of hits: 6)
10	5280	9	1	333	1	5468.0, 5469.0, 5554.0, 5438.0, 5439.0, 5672.0, 5653.0, 5606.0, 5614.0, 5703.0, 5574.0, 5628.0, 5338.0, 5526.0, 5719.0, 5492.0, 5610.0, 5543.0, 5316.0, 5520.0, 5424.0, 5401.0, 5686.0, 5302.0, 5391.0, 5723.0, 5334.0, 5344.0, 5508.0, 5609.0, 5272.0, 5472.0, 5400.0, 5441.0, 5651.0, 5460.0, 5283.0, 5534.0, 5539.0, 5435.0, 5561.0, 5509.0, 5370.0, 5425.0, 5262.0, 5289.0, 5318.0, 5394.0, 5581.0, 5455.0, 5537.0, 5329.0, 5488.0, 5443.0, 5700.0, 5483.0, 5514.0, 5682.0, 5647.0, 5529.0, 5361.0, 5548.0, 5463.0, 5279.0, 5320.0, 5417.0, 5355.0, 5397.0, 5288.0, 5475.0, 5630.0, 5626.0, 5366.0, 5399.0, 5466.0, 5275.0, 5722.0, 5379.0, 5368.0, 5444.0, 5376.0, 5369.0, 5541.0, 5479.0, 5315.0, 5250.0, 5362.0, 5530.0, 5481.0, 5482.0, 5691.0, 5276.0, 5648.0, 5716.0, 5322.0, 5471.0, 5698.0, 5266.0, 5659.0, 5396.0 (number of hits: 6)
11	5280	9	1	333	1	5650.0, 5618.0, 5297.0, 5667.0, 5666.0, 5524.0, 5519.0, 5456.0, 5556.0, 5364.0, 5516.0, 5396.0, 5304.0, 5294.0, 5489.0, 5445.0, 5346.0, 5709.0, 5659.0, 5318.0, 5625.0, 5272.0, 5413.0, 5697.0, 5589.0, 5521.0, 5552.0, 5322.0, 5282.0, 5575.0, 5685.0, 5587.0, 5408.0, 5614.0, 5452.0, 5418.0, 5390.0, 5511.0, 5542.0, 5368.0, 5328.0, 5400.0, 5324.0, 5635.0, 5375.0, 5392.0, 5354.0, 5621.0, 5639.0, 5425.0, 5652.0, 5665.0, 5485.0, 5491.0, 5597.0, 5675.0, 5610.0, 5670.0, 5415.0, 5504.0, 5473.0, 5537.0, 5478.0, 5427.0, 5722.0, 5549.0, 5356.0, 5345.0, 5343.0, 5407.0, 5509.0, 5493.0, 5518.0, 5286.0, 5622.0, 5657.0, 5279.0, 5683.0, 5264.0, 5681.0, 5482.0, 5300.0, 5334.0, 5607.0, 5696.0, 5438.0, 5359.0, 5651.0, 5389.0, 5430.0, 5384.0, 5471.0, 5669.0, 5275.0, 5668.0, 5380.0, 5514.0, 5624.0, 5310.0, 5706.0

						(number of hits: 5)
12	5280	9	1	333	1	5291.0, 5334.0, 5603.0, 5261.0, 5515.0, 5274.0, 5454.0, 5598.0, 5358.0, 5447.0, 5517.0, 5650.0, 5361.0, 5445.0, 5492.0, 5703.0, 5485.0, 5718.0, 5332.0, 5403.0, 5700.0, 5335.0, 5359.0, 5585.0, 5648.0, 5624.0, 5637.0, 5618.0, 5593.0, 5682.0, 5666.0, 5595.0, 5575.0, 5658.0, 5646.0, 5295.0, 5400.0, 5556.0, 5319.0, 5495.0, 5470.0, 5545.0, 5615.0, 5486.0, 5673.0, 5534.0, 5619.0, 5531.0, 5314.0, 5702.0, 5681.0, 5722.0, 5570.0, 5338.0, 5451.0, 5287.0, 5716.0, 5576.0, 5480.0, 5303.0, 5647.0, 5386.0, 5653.0, 5414.0, 5528.0, 5719.0, 5686.0, 5317.0, 5374.0, 5276.0, 5302.0, 5444.0, 5352.0, 5259.0, 5267.0, 5322.0, 5279.0, 5711.0, 5583.0, 5633.0, 5339.0, 5271.0, 5415.0, 5677.0, 5699.0, 5381.0, 5539.0, 5475.0, 5385.0, 5312.0, 5440.0, 5591.0, 5628.0, 5257.0, 5478.0, 5356.0, 5614.0, 5664.0, 5481.0, 5542.0 (number of hits: 5)
13	5280	9	1	333	1	5294.0, 5392.0, 5479.0, 5690.0, 5622.0, 5426.0, 5603.0, 5258.0, 5577.0, 5315.0, 5293.0, 5712.0, 5376.0, 5345.0, 5472.0, 5274.0, 5449.0, 5318.0, 5269.0, 5438.0, 5714.0, 5708.0, 5527.0, 5363.0, 5722.0, 5401.0, 5308.0, 5368.0, 5277.0, 5572.0, 5451.0, 5523.0, 5495.0, 5595.0, 5672.0, 5655.0, 5462.0, 5521.0, 5504.0, 5638.0, 5352.0, 5665.0, 5322.0, 5569.0, 5275.0, 5648.0, 5606.0, 5381.0, 5415.0, 5704.0, 5633.0, 5533.0, 5337.0, 5576.0, 5604.0, 5429.0, 5585.0, 5367.0, 5685.0, 5519.0, 5719.0, 5271.0, 5278.0, 5430.0, 5615.0, 5309.0, 5442.0, 5414.0, 5489.0, 5709.0, 5455.0, 5416.0, 5553.0, 5390.0, 5568.0, 5590.0, 5574.0, 5710.0, 5639.0, 5531.0, 5335.0, 5679.0, 5597.0, 5548.0, 5624.0, 5715.0, 5471.0, 5588.0, 5684.0, 5617.0, 5280.0, 5511.0, 5355.0, 5303.0, 5669.0, 5412.0, 5266.0, 5332.0, 5385.0, 5494.0 (number of hits: 6)
14	5280	9	1	333	1	5524.0, 5668.0, 5605.0, 5426.0, 5699.0, 5398.0, 5566.0, 5361.0, 5535.0, 5625.0, 5637.0, 5692.0, 5586.0, 5620.0, 5318.0, 5333.0, 5286.0, 5506.0, 5484.0, 5285.0, 5297.0, 5641.0, 5613.0, 5611.0, 5576.0, 5617.0, 5270.0, 5396.0, 5384.0, 5435.0, 5393.0, 5358.0, 5307.0, 5391.0, 5400.0, 5656.0, 5390.0, 5330.0, 5292.0, 5252.0, 5627.0, 5457.0, 5253.0, 5402.0, 5587.0, 5677.0, 5316.0, 5424.0, 5653.0, 5372.0, 5680.0, 5262.0, 5539.0, 5629.0, 5465.0, 5344.0, 5518.0, 5621.0, 5577.0, 5308.0, 5296.0, 5273.0, 5403.0, 5482.0, 5456.0, 5583.0, 5334.0, 5602.0, 5660.0, 5516.0, 5554.0, 5290.0, 5274.0, 5671.0, 5689.0, 5340.0, 5604.0, 5713.0, 5356.0, 5517.0,

						5408.0, 5534.0, 5574.0, 5347.0, 5444.0, 5560.0, 5280.0, 5418.0, 5481.0, 5530.0, 5687.0, 5375.0, 5460.0, 5569.0, 5470.0, 5352.0, 5723.0, 5606.0, 5531.0, 5410.0 (number of hits: 5)
15	5280	9	1	333	1	5416.0, 5674.0, 5539.0, 5568.0, 5451.0, 5340.0, 5265.0, 5540.0, 5578.0, 5582.0, 5716.0, 5602.0, 5414.0, 5630.0, 5403.0, 5356.0, 5299.0, 5498.0, 5348.0, 5255.0, 5419.0, 5401.0, 5524.0, 5713.0, 5558.0, 5652.0, 5256.0, 5327.0, 5493.0, 5593.0, 5315.0, 5641.0, 5376.0, 5386.0, 5391.0, 5308.0, 5483.0, 5352.0, 5354.0, 5262.0, 5373.0, 5705.0, 5260.0, 5643.0, 5482.0, 5619.0, 5421.0, 5338.0, 5286.0, 5277.0, 5639.0, 5324.0, 5463.0, 5653.0, 5620.0, 5687.0, 5478.0, 5359.0, 5331.0, 5636.0, 5390.0, 5396.0, 5649.0, 5378.0, 5459.0, 5567.0, 5310.0, 5449.0, 5576.0, 5712.0, 5715.0, 5477.0, 5572.0, 5470.0, 5710.0, 5336.0, 5392.0, 5443.0, 5597.0, 5253.0, 5479.0, 5586.0, 5410.0, 5551.0, 5313.0, 5474.0, 5317.0, 5437.0, 5397.0, 5462.0, 5612.0, 5659.0, 5701.0, 5332.0, 5631.0, 5517.0, 5361.0, 5456.0, 5269.0, 5362.0 (number of hits: 2)
16	5280	9	1	333	1	5541.0, 5470.0, 5691.0, 5391.0, 5381.0, 5343.0, 5553.0, 5663.0, 5377.0, 5267.0, 5460.0, 5252.0, 5577.0, 5615.0, 5277.0, 5699.0, 5501.0, 5362.0, 5374.0, 5359.0, 5628.0, 5469.0, 5581.0, 5694.0, 5655.0, 5361.0, 5480.0, 5394.0, 5700.0, 5604.0, 5619.0, 5552.0, 5285.0, 5526.0, 5427.0, 5620.0, 5644.0, 5450.0, 5421.0, 5623.0, 5572.0, 5257.0, 5505.0, 5320.0, 5588.0, 5626.0, 5721.0, 5613.0, 5687.0, 5476.0, 5555.0, 5531.0, 5466.0, 5308.0, 5387.0, 5418.0, 5490.0, 5510.0, 5363.0, 5685.0, 5307.0, 5297.0, 5545.0, 5291.0, 5520.0, 5378.0, 5596.0, 5536.0, 5638.0, 5441.0, 5671.0, 5493.0, 5712.0, 5630.0, 5446.0, 5720.0, 5271.0, 5680.0, 5706.0, 5408.0, 5650.0, 5612.0, 5419.0, 5550.0, 5350.0, 5344.0, 5327.0, 5568.0, 5673.0, 5547.0, 5311.0, 5266.0, 5406.0, 5669.0, 5321.0, 5404.0, 5339.0, 5295.0, 5641.0, 5511.0 (number of hits: 3)
17	5280	9	1	333	1	5697.0, 5406.0, 5695.0, 5384.0, 5322.0, 5626.0, 5567.0, 5310.0, 5399.0, 5443.0, 5575.0, 5254.0, 5299.0, 5706.0, 5287.0, 5429.0, 5308.0, 5463.0, 5269.0, 5638.0, 5668.0, 5720.0, 5698.0, 5559.0, 5570.0, 5370.0, 5328.0, 5500.0, 5381.0, 5528.0, 5721.0, 5484.0, 5517.0, 5496.0, 5354.0, 5323.0, 5599.0, 5634.0, 5509.0, 5581.0, 5627.0, 5716.0, 5265.0, 5512.0, 5722.0, 5440.0, 5579.0, 5336.0, 5455.0, 5335.0, 5392.0, 5268.0, 5493.0, 5494.0, 5714.0, 5450.0, 5513.0, 5369.0, 5477.0, 5385.0,

						5306.0, 5421.0, 5623.0, 5296.0, 5372.0, 5339.0, 5423.0, 5412.0, 5527.0, 5589.0, 5571.0, 5658.0, 5337.0, 5409.0, 5364.0, 5437.0, 5312.0, 5533.0, 5666.0, 5259.0, 5407.0, 5379.0, 5293.0, 5483.0, 5355.0, 5377.0, 5644.0, 5487.0, 5601.0, 5711.0, 5439.0, 5534.0, 5304.0, 5617.0, 5471.0, 5674.0, 5271.0, 5656.0, 5694.0, 5574.0 (number of hits: 2)
18	5280	9	1	333	1	5521.0, 5676.0, 5611.0, 5272.0, 5665.0, 5295.0, 5605.0, 5654.0, 5491.0, 5554.0, 5291.0, 5693.0, 5648.0, 5683.0, 5696.0, 5674.0, 5475.0, 5273.0, 5316.0, 5394.0, 5502.0, 5673.0, 5428.0, 5337.0, 5532.0, 5407.0, 5359.0, 5287.0, 5529.0, 5430.0, 5317.0, 5373.0, 5628.0, 5545.0, 5443.0, 5582.0, 5509.0, 5263.0, 5613.0, 5623.0, 5377.0, 5504.0, 5328.0, 5440.0, 5439.0, 5454.0, 5429.0, 5288.0, 5402.0, 5358.0, 5501.0, 5621.0, 5583.0, 5660.0, 5419.0, 5398.0, 5340.0, 5321.0, 5392.0, 5458.0, 5365.0, 5323.0, 5723.0, 5536.0, 5270.0, 5455.0, 5505.0, 5669.0, 5356.0, 5342.0, 5622.0, 5667.0, 5371.0, 5364.0, 5259.0, 5415.0, 5690.0, 5634.0, 5341.0, 5453.0, 5489.0, 5388.0, 5282.0, 5606.0, 5703.0, 5589.0, 5416.0, 5318.0, 5718.0, 5258.0, 5512.0, 5312.0, 5637.0, 5524.0, 5619.0, 5494.0, 5528.0, 5561.0, 5552.0, 5476.0 (number of hits: 5)
19	5280	9	1	333	1	5362.0, 5320.0, 5356.0, 5452.0, 5722.0, 5460.0, 5253.0, 5265.0, 5652.0, 5562.0, 5600.0, 5658.0, 5458.0, 5430.0, 5606.0, 5560.0, 5357.0, 5418.0, 5668.0, 5585.0, 5653.0, 5317.0, 5296.0, 5488.0, 5457.0, 5283.0, 5552.0, 5434.0, 5346.0, 5342.0, 5678.0, 5615.0, 5626.0, 5468.0, 5602.0, 5331.0, 5341.0, 5535.0, 5482.0, 5258.0, 5648.0, 5310.0, 5593.0, 5705.0, 5274.0, 5576.0, 5505.0, 5723.0, 5378.0, 5338.0, 5633.0, 5686.0, 5271.0, 5476.0, 5549.0, 5538.0, 5277.0, 5324.0, 5492.0, 5519.0, 5431.0, 5380.0, 5689.0, 5421.0, 5707.0, 5470.0, 5493.0, 5495.0, 5270.0, 5548.0, 5557.0, 5485.0, 5590.0, 5640.0, 5661.0, 5318.0, 5511.0, 5477.0, 5467.0, 5664.0, 5450.0, 5461.0, 5666.0, 5403.0, 5683.0, 5313.0, 5605.0, 5692.0, 5451.0, 5400.0, 5677.0, 5289.0, 5597.0, 5348.0, 5376.0, 5688.0, 5629.0, 5375.0, 5402.0, 5650.0 (number of hits: 4)
20	5280	9	1	333	1	5538.0, 5442.0, 5567.0, 5487.0, 5344.0, 5645.0, 5304.0, 5575.0, 5402.0, 5410.0, 5671.0, 5488.0, 5298.0, 5689.0, 5340.0, 5557.0, 5650.0, 5565.0, 5505.0, 5516.0, 5708.0, 5350.0, 5405.0, 5681.0, 5715.0, 5523.0, 5596.0, 5393.0, 5499.0, 5478.0, 5392.0, 5711.0, 5683.0, 5404.0, 5599.0, 5494.0, 5372.0, 5262.0, 5475.0, 5476.0,

						5355.0, 5422.0, 5301.0, 5408.0, 5718.0, 5709.0, 5657.0, 5710.0, 5559.0, 5620.0, 5400.0, 5541.0, 5588.0, 5384.0, 5594.0, 5514.0, 5302.0, 5550.0, 5482.0, 5317.0, 5395.0, 5272.0, 5695.0, 5335.0, 5552.0, 5716.0, 5491.0, 5382.0, 5337.0, 5260.0, 5448.0, 5471.0, 5603.0, 5331.0, 5341.0, 5440.0, 5642.0, 5310.0, 5253.0, 5668.0, 5586.0, 5581.0, 5498.0, 5525.0, 5333.0, 5509.0, 5605.0, 5342.0, 5697.0, 5291.0, 5562.0, 5666.0, 5286.0, 5374.0, 5511.0, 5490.0, 5576.0, 5283.0, 5396.0, 5447.0 (number of hits: 3)
21	5280	9	1	333	1	5444.0, 5317.0, 5426.0, 5455.0, 5517.0, 5437.0, 5408.0, 5372.0, 5568.0, 5352.0, 5265.0, 5698.0, 5316.0, 5508.0, 5279.0, 5666.0, 5592.0, 5644.0, 5381.0, 5254.0, 5628.0, 5667.0, 5640.0, 5487.0, 5418.0, 5441.0, 5631.0, 5471.0, 5421.0, 5650.0, 5432.0, 5613.0, 5470.0, 5561.0, 5363.0, 5459.0, 5674.0, 5717.0, 5708.0, 5607.0, 5696.0, 5300.0, 5440.0, 5430.0, 5515.0, 5528.0, 5552.0, 5277.0, 5356.0, 5410.0, 5303.0, 5604.0, 5492.0, 5359.0, 5473.0, 5614.0, 5413.0, 5588.0, 5690.0, 5636.0, 5622.0, 5512.0, 5618.0, 5483.0, 5594.0, 5720.0, 5484.0, 5534.0, 5384.0, 5469.0, 5676.0, 5688.0, 5264.0, 5443.0, 5389.0, 5563.0, 5339.0, 5612.0, 5425.0, 5573.0, 5259.0, 5320.0, 5371.0, 5701.0, 5505.0, 5571.0, 5417.0, 5383.0, 5643.0, 5461.0, 5255.0, 5551.0, 5531.0, 5684.0, 5328.0, 5530.0, 5323.0, 5266.0, 5489.0, 5549.0 (number of hits: 2)
22	5280	9	1	333	1	5256.0, 5656.0, 5630.0, 5398.0, 5646.0, 5522.0, 5395.0, 5635.0, 5495.0, 5528.0, 5563.0, 5473.0, 5517.0, 5670.0, 5582.0, 5430.0, 5435.0, 5652.0, 5475.0, 5433.0, 5499.0, 5390.0, 5488.0, 5342.0, 5650.0, 5576.0, 5625.0, 5344.0, 5665.0, 5559.0, 5315.0, 5470.0, 5556.0, 5552.0, 5434.0, 5441.0, 5723.0, 5352.0, 5397.0, 5677.0, 5371.0, 5363.0, 5497.0, 5450.0, 5416.0, 5649.0, 5714.0, 5469.0, 5440.0, 5471.0, 5295.0, 5520.0, 5580.0, 5322.0, 5503.0, 5634.0, 5623.0, 5632.0, 5370.0, 5284.0, 5501.0, 5387.0, 5690.0, 5360.0, 5685.0, 5716.0, 5472.0, 5529.0, 5494.0, 5330.0, 5260.0, 5425.0, 5505.0, 5320.0, 5606.0, 5340.0, 5684.0, 5600.0, 5306.0, 5515.0, 5354.0, 5333.0, 5647.0, 5686.0, 5296.0, 5506.0, 5587.0, 5669.0, 5703.0, 5591.0, 5409.0, 5687.0, 5641.0, 5683.0, 5553.0, 5292.0, 5447.0, 5419.0, 5508.0, 5280.0 (number of hits: 2)
23	5280	9	1	333	1	5250.0, 5682.0, 5288.0, 5423.0, 5625.0, 5618.0, 5397.0, 5681.0, 5486.0, 5543.0, 5724.0, 5525.0, 5266.0, 5414.0, 5500.0, 5715.0, 5323.0, 5310.0, 5683.0, 5296.0,

						5437.0, 5380.0, 5521.0, 5458.0, 5353.0, 5569.0, 5305.0, 5510.0, 5465.0, 5616.0, 5367.0, 5563.0, 5667.0, 5369.0, 5708.0, 5291.0, 5689.0, 5443.0, 5644.0, 5343.0, 5413.0, 5661.0, 5485.0, 5573.0, 5313.0, 5268.0, 5431.0, 5432.0, 5549.0, 5457.0, 5333.0, 5623.0, 5707.0, 5477.0, 5341.0, 5415.0, 5298.0, 5529.0, 5394.0, 5524.0, 5454.0, 5272.0, 5597.0, 5540.0, 5420.0, 5383.0, 5363.0, 5669.0, 5589.0, 5373.0, 5653.0, 5287.0, 5718.0, 5501.0, 5547.0, 5284.0, 5584.0, 5580.0, 5545.0, 5528.0, 5586.0, 5519.0, 5418.0, 5356.0, 5253.0, 5680.0, 5325.0, 5472.0, 5262.0, 5619.0, 5609.0, 5462.0, 5434.0, 5576.0, 5252.0, 5650.0, 5646.0, 5713.0, 5679.0, 5428.0 (number of hits: 4)
24	5280	9	1	333	1	5507.0, 5252.0, 5330.0, 5535.0, 5673.0, 5602.0, 5674.0, 5370.0, 5309.0, 5570.0, 5398.0, 5525.0, 5610.0, 5511.0, 5460.0, 5545.0, 5539.0, 5514.0, 5437.0, 5695.0, 5405.0, 5519.0, 5282.0, 5662.0, 5698.0, 5428.0, 5332.0, 5649.0, 5316.0, 5299.0, 5549.0, 5294.0, 5574.0, 5267.0, 5258.0, 5624.0, 5270.0, 5334.0, 5544.0, 5585.0, 5301.0, 5663.0, 5550.0, 5543.0, 5520.0, 5374.0, 5269.0, 5422.0, 5446.0, 5600.0, 5281.0, 5526.0, 5560.0, 5366.0, 5378.0, 5376.0, 5533.0, 5342.0, 5351.0, 5506.0, 5572.0, 5340.0, 5503.0, 5450.0, 5425.0, 5714.0, 5485.0, 5414.0, 5278.0, 5569.0, 5521.0, 5654.0, 5297.0, 5363.0, 5327.0, 5580.0, 5399.0, 5338.0, 5558.0, 5375.0, 5254.0, 5273.0, 5660.0, 5411.0, 5626.0, 5595.0, 5609.0, 5675.0, 5354.0, 5432.0, 5711.0, 5554.0, 5647.0, 5650.0, 5553.0, 5424.0, 5361.0, 5502.0, 5697.0, 5496.0 (number of hits: 4)
25	5280	9	1	333	1	5712.0, 5402.0, 5682.0, 5584.0, 5578.0, 5251.0, 5528.0, 5323.0, 5349.0, 5461.0, 5573.0, 5492.0, 5588.0, 5561.0, 5534.0, 5672.0, 5498.0, 5453.0, 5686.0, 5607.0, 5510.0, 5499.0, 5476.0, 5623.0, 5486.0, 5636.0, 5530.0, 5304.0, 5321.0, 5357.0, 5401.0, 5678.0, 5331.0, 5334.0, 5699.0, 5552.0, 5256.0, 5669.0, 5373.0, 5259.0, 5631.0, 5369.0, 5376.0, 5598.0, 5612.0, 5443.0, 5668.0, 5339.0, 5272.0, 5692.0, 5548.0, 5286.0, 5361.0, 5695.0, 5435.0, 5527.0, 5261.0, 5438.0, 5521.0, 5313.0, 5469.0, 5390.0, 5715.0, 5565.0, 5507.0, 5427.0, 5650.0, 5374.0, 5338.0, 5603.0, 5558.0, 5314.0, 5447.0, 5382.0, 5621.0, 5570.0, 5674.0, 5445.0, 5360.0, 5342.0, 5288.0, 5353.0, 5690.0, 5422.0, 5266.0, 5514.0, 5423.0, 5392.0, 5600.0, 5723.0, 5440.0, 5601.0, 5379.0, 5544.0, 5531.0, 5717.0, 5665.0, 5377.0, 5524.0, 5713.0 (number of hits: 3)

26	5280	9	1	333	1	5561.0, 5339.0, 5502.0, 5410.0, 5337.0, 5455.0, 5667.0, 5495.0, 5612.0, 5348.0, 5514.0, 5264.0, 5698.0, 5325.0, 5605.0, 5664.0, 5280.0, 5611.0, 5351.0, 5295.0, 5712.0, 5428.0, 5683.0, 5269.0, 5572.0, 5399.0, 5568.0, 5494.0, 5570.0, 5496.0, 5414.0, 5607.0, 5266.0, 5296.0, 5527.0, 5539.0, 5388.0, 5454.0, 5374.0, 5313.0, 5717.0, 5289.0, 5320.0, 5412.0, 5676.0, 5510.0, 5450.0, 5581.0, 5338.0, 5335.0, 5415.0, 5634.0, 5294.0, 5430.0, 5420.0, 5626.0, 5286.0, 5711.0, 5476.0, 5276.0, 5540.0, 5362.0, 5418.0, 5273.0, 5456.0, 5656.0, 5550.0, 5306.0, 5674.0, 5645.0, 5706.0, 5328.0, 5395.0, 5593.0, 5392.0, 5361.0, 5532.0, 5367.0, 5472.0, 5330.0, 5577.0, 5716.0, 5546.0, 5435.0, 5528.0, 5349.0, 5483.0, 5291.0, 5685.0, 5680.0, 5408.0, 5701.0, 5486.0, 5559.0, 5692.0, 5285.0, 5720.0, 5319.0, 5599.0, 5589.0 (number of hits: 5)
27	5280	9	1	333	1	5712.0, 5483.0, 5339.0, 5282.0, 5602.0, 5348.0, 5674.0, 5488.0, 5340.0, 5678.0, 5716.0, 5630.0, 5720.0, 5324.0, 5321.0, 5508.0, 5424.0, 5320.0, 5558.0, 5304.0, 5661.0, 5272.0, 5407.0, 5529.0, 5556.0, 5308.0, 5314.0, 5677.0, 5632.0, 5689.0, 5533.0, 5537.0, 5258.0, 5566.0, 5367.0, 5688.0, 5464.0, 5645.0, 5588.0, 5361.0, 5705.0, 5293.0, 5607.0, 5681.0, 5385.0, 5470.0, 5307.0, 5586.0, 5601.0, 5683.0, 5517.0, 5363.0, 5381.0, 5350.0, 5590.0, 5613.0, 5257.0, 5277.0, 5430.0, 5327.0, 5357.0, 5535.0, 5416.0, 5291.0, 5300.0, 5444.0, 5476.0, 5413.0, 5565.0, 5496.0, 5510.0, 5330.0, 5722.0, 5289.0, 5534.0, 5408.0, 5530.0, 5572.0, 5252.0, 5491.0, 5374.0, 5648.0, 5717.0, 5504.0, 5261.0, 5356.0, 5286.0, 5285.0, 5371.0, 5685.0, 5610.0, 5711.0, 5412.0, 5709.0, 5336.0, 5502.0, 5353.0, 5551.0, 5522.0, 5302.0 (number of hits: 5)
28	5280	9	1	333	1	5391.0, 5693.0, 5304.0, 5330.0, 5666.0, 5562.0, 5297.0, 5548.0, 5264.0, 5270.0, 5523.0, 5369.0, 5400.0, 5580.0, 5451.0, 5599.0, 5636.0, 5447.0, 5536.0, 5376.0, 5325.0, 5496.0, 5416.0, 5351.0, 5600.0, 5696.0, 5313.0, 5409.0, 5267.0, 5295.0, 5335.0, 5564.0, 5716.0, 5348.0, 5649.0, 5660.0, 5598.0, 5533.0, 5640.0, 5429.0, 5301.0, 5253.0, 5299.0, 5357.0, 5401.0, 5424.0, 5324.0, 5261.0, 5688.0, 5722.0, 5560.0, 5315.0, 5506.0, 5521.0, 5700.0, 5690.0, 5723.0, 5258.0, 5294.0, 5321.0, 5298.0, 5655.0, 5386.0, 5574.0, 5613.0, 5266.0, 5310.0, 5642.0, 5558.0, 5556.0, 5275.0, 5571.0, 5604.0, 5390.0, 5260.0, 5687.0, 5646.0, 5531.0, 5318.0, 5543.0, 5537.0, 5440.0, 5544.0, 5683.0, 5387.0,

						5459.0, 5525.0, 5413.0, 5620.0, 5317.0, 5283.0, 5503.0, 5554.0, 5437.0, 5364.0, 5605.0, 5578.0, 5356.0, 5590.0, 5631.0 (number of hits: 2)
29	5280	9	1	333	1	5655.0, 5313.0, 5419.0, 5338.0, 5490.0, 5723.0, 5387.0, 5568.0, 5543.0, 5652.0, 5536.0, 5257.0, 5535.0, 5669.0, 5290.0, 5501.0, 5413.0, 5696.0, 5453.0, 5588.0, 5287.0, 5358.0, 5388.0, 5691.0, 5567.0, 5717.0, 5587.0, 5431.0, 5664.0, 5426.0, 5334.0, 5542.0, 5503.0, 5376.0, 5596.0, 5365.0, 5584.0, 5551.0, 5559.0, 5470.0, 5671.0, 5592.0, 5562.0, 5307.0, 5573.0, 5297.0, 5326.0, 5420.0, 5721.0, 5654.0, 5629.0, 5362.0, 5415.0, 5591.0, 5361.0, 5305.0, 5308.0, 5360.0, 5716.0, 5323.0, 5278.0, 5515.0, 5272.0, 5457.0, 5404.0, 5709.0, 5557.0, 5330.0, 5397.0, 5464.0, 5545.0, 5650.0, 5451.0, 5432.0, 5525.0, 5631.0, 5321.0, 5578.0, 5351.0, 5450.0, 5479.0, 5505.0, 5309.0, 5564.0, 5577.0, 5660.0, 5430.0, 5617.0, 5677.0, 5379.0, 5288.0, 5700.0, 5630.0, 5611.0, 5316.0, 5276.0, 5259.0, 5333.0, 5275.0, 5710.0 (number of hits: 6)
30	5280	9	1	333	1	5416.0, 5393.0, 5360.0, 5366.0, 5654.0, 5312.0, 5604.0, 5709.0, 5547.0, 5428.0, 5363.0, 5680.0, 5697.0, 5656.0, 5404.0, 5509.0, 5316.0, 5524.0, 5284.0, 5505.0, 5483.0, 5282.0, 5309.0, 5367.0, 5337.0, 5379.0, 5612.0, 5718.0, 5432.0, 5361.0, 5399.0, 5508.0, 5670.0, 5402.0, 5421.0, 5618.0, 5616.0, 5526.0, 5518.0, 5638.0, 5723.0, 5627.0, 5409.0, 5565.0, 5260.0, 5323.0, 5439.0, 5460.0, 5658.0, 5369.0, 5372.0, 5491.0, 5671.0, 5341.0, 5633.0, 5660.0, 5473.0, 5503.0, 5279.0, 5641.0, 5340.0, 5572.0, 5303.0, 5419.0, 5378.0, 5666.0, 5652.0, 5577.0, 5599.0, 5622.0, 5651.0, 5659.0, 5490.0, 5442.0, 5333.0, 5720.0, 5644.0, 5583.0, 5535.0, 5275.0, 5450.0, 5420.0, 5315.0, 5640.0, 5440.0, 5534.0, 5269.0, 5352.0, 5598.0, 5451.0, 5277.0, 5548.0, 5530.0, 5538.0, 5474.0, 5487.0, 5569.0, 5615.0, 5560.0, 5308.0 (number of hits: 5)

5270 MHz, 40 MHz Bandwidth

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1A/1B	30	100 %	60%	Pass
Type 2	30	100 %	60%	Pass
Type 3	30	100 %	60%	Pass
Type 4	30	96.67 %	60%	Pass
Aggregate (Type1 to 4)	120	99.17 %	80%	Pass
Type 5	30	100 %	80%	Pass
Type 6	30	100 %	70%	Pass

Please refer to the following statistical tables:

5270 MHz, 40 MHz Bandwidth

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

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5270	99	1	538	1
2	5270	65	1	818	1
3	5270	68	1	778	1
4	5270	62	1	858	1
5	5270	57	1	938	1
6	5270	76	1	698	1
7	5270	74	1	718	1
8	5270	58	1	918	1
9	5270	67	1	798	1
10	5270	81	1	658	1
11	5270	18	1	3066	1
12	5270	63	1	838	1
13	5270	61	1	878	1
14	5270	95	1	558	1
15	5270	86	1	618	1
16	5270	35	1	1520	1
17	5270	23	1	2342	1
18	5270	31	1	1714	1
19	5270	27	1	1969	1
20	5270	21	1	2582	1
21	5270	19	1	2794	1
22	5270	43	1	1254	1
23	5270	19	1	2849	1
24	5270	62	1	860	1
25	5270	38	1	1406	1
26	5270	42	1	1258	1
27	5270	27	1	1980	1
28	5270	25	1	2167	1
29	5270	55	1	962	1
30	5270	20	1	2639	1
Detection Percentage: 100 % (>60%)					

Table-2 Radar Type 2 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5270	24	3.5	181	1
2	5270	23	3.5	213	1
3	5270	28	4.6	217	1
4	5270	25	1.9	191	1
5	5270	26	4.9	181	1
6	5270	23	1.1	186	1
7	5270	29	1.9	165	1
8	5270	26	3.6	212	1
9	5270	25	2.7	184	1
10	5270	25	3.3	171	1
11	5270	29	2.2	215	1
12	5270	28	3.1	202	1
13	5270	23	4.9	160	1
14	5270	29	1.5	189	1
15	5270	25	4	171	1
16	5270	26	4.6	182	1
17	5270	29	4.1	208	1
18	5270	24	4.4	156	1
19	5270	29	2.2	225	1
20	5270	24	1.8	195	1
21	5270	24	2.7	184	1
22	5270	29	2.3	201	1
23	5270	28	1.4	183	1
24	5270	28	4	181	1
25	5270	24	4.2	221	1
26	5270	25	3.7	220	1
27	5270	29	1.6	172	1
28	5270	25	3.8	185	1
29	5270	23	1.8	199	1
30	5270	23	1.6	175	1
Detection Percentage: 100 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5270	16	8.2	266	1
2	5270	16	6.7	327	1
3	5270	17	9.3	331	1
4	5270	18	6.7	402	1
5	5270	17	9.5	424	1
6	5270	16	6.1	433	1
7	5270	17	6.9	437	1
8	5270	16	10	417	1
9	5270	16	6.7	347	1
10	5270	17	9.4	228	1
11	5270	17	9.2	287	1
12	5270	17	7.8	462	1
13	5270	18	7.1	408	1
14	5270	17	9.7	393	1
15	5270	16	8.3	222	1
16	5270	17	6	252	1
17	5270	17	7.6	469	1
18	5270	17	6.2	240	1
19	5270	17	7.9	308	1
20	5270	17	6.5	417	1
21	5270	17	6.4	234	1
22	5270	18	9.5	379	1
23	5270	16	8.7	462	1
24	5270	16	8.2	295	1
25	5270	17	9.5	470	1
26	5270	18	6.3	400	1
27	5270	16	6.5	426	1
28	5270	16	9	285	1
29	5270	16	9.7	211	1
30	5270	16	7.1	340	1
Detection Percentage: 100 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5270	16	14.2	234	1
2	5270	12	18.4	322	1
3	5270	16	13.7	332	1
4	5270	12	12.7	366	1
5	5270	16	13.5	493	0
6	5270	15	16.9	418	1
7	5270	15	16	484	1
8	5270	12	13.5	285	1
9	5270	14	13.4	393	1
10	5270	15	18	331	1
11	5270	16	12.5	379	1
12	5270	16	17.3	212	1
13	5270	16	12.4	454	1
14	5270	16	18.7	455	1
15	5270	16	18.2	356	1
16	5270	15	15.6	314	1
17	5270	14	19.2	396	1
18	5270	13	12.3	426	1
19	5270	16	19.8	248	1
20	5270	15	19.7	381	1
21	5270	15	13	449	1
22	5270	13	17.6	254	1
23	5270	15	17.3	451	1
24	5270	16	15.9	301	1
25	5270	13	16.1	360	1
26	5270	15	15.9	354	1
27	5270	13	18.7	438	1
28	5270	16	13.1	482	1
29	5270	15	11.4	266	1
30	5270	16	11.6	309	1
Detection Percentage: 96.67 % (>60%)					

Table-5 Radar Type 5 Statistical Performance

Trial #	Fc (MHz)	Detection (1:yes; 0:no)
1	5270	1
2	5270	1
3	5270	1
4	5270	1
5	5270	1
6	5270	1
7	5270	1
8	5270	1
9	5270	1
10	5270	1
11	5257.4	1
12	5256.2	1
13	5256.2	1
14	5257.0	1
15	5256.2	1
16	5256.2	1
17	5255.4	1
18	5255.0	1
19	5256.2	1
20	5253.8	1
21	5283.8	1
22	5284.6	1
23	5283.0	1
24	5282.2	1
25	5283.4	1
26	5284.6	1
27	5282.2	1
28	5286.2	1
29	5284.6	1
30	5282.6	1
Detection Percentage: 100 % (>80%)		

Bin5 Statistics 1

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	9	98.5	1323		0.010463	1
1	3	9	82.6	1552	1627	1.837352	
2	1	9	65.2			2.716185	
3	3	9	54.5	1102	1725	4.597935	
4	1	9	90.4			5.648086	
5	1	9	71.7			7.944913	
6	2	9	64.3	1843		8.933641	
7	2	9	68.6	1866		9.52792	
8	2	9	64.4	1490		11.824159	

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	18	76.1	1903	1686	0.057632	1
1	1	18	86.6			0.89344	
2	2	18	95.5	1298		1.792571	
3	2	18	59.7	1341		2.639412	
4	2	18	97.1	1249		2.722776	
5	2	18	92.7	1466		3.62178	
6	3	18	51.5	1399	1073	4.154489	
7	1	18	88.4			5.315616	
8	3	18	88.7	1682	1915	5.417833	
9	2	18	77.3	1217		6.171695	
10	2	18	84.5	1810		7.148069	
11	1	18	72.6			7.986992	
12	2	18	98.5	1749		8.10284	
13	1	18	54.6			8.783086	
14	2	18	67.6	1216		9.779402	
15	2	18	74.4	1034		10.12645	
16	2	18	87.4	1727		11.169028	
17	1	18	81.4			11.658187	

Bin5 Statistics 3

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	8	90.7	1283		0.710196	
1	2	8	91.4	1041		2.174389	
2	2	8	87.3	1806		3.314443	
3	2	8	90.8	1415		5.292085	
4	3	8	67.1	1764	1521	5.348206	1
5	1	8	99.6			6.734393	
6	1	8	73.7			8.544654	
7	1	8	97.7			10.508399	
8	2	8	67.2	1452		11.014168	

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	20	78.9	1223	1235	0.332978	
1	2	20	52.6	1334		1.924834	
2	3	20	90.6	1003	1566	2.828545	
3	3	20	70.6	1975	1213	3.661972	
4	2	20	64.3	1218		4.615324	
5	3	20	56.2	1954	1204	5.83404	1
6	2	20	72.6	1721		6.867121	
7	2	20	74.7	1849		7.684592	
8	2	20	76	1726		8.909207	
9	3	20	72.8	1811	1486	9.973425	
10	2	20	50.8	1145		11.876969	

Bin5 Statistics 5

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	11	96.3	1488		0.703702	1
1	2	11	87.4	1012		1.292459	
2	2	11	92.6	1461		1.627414	
3	3	11	51.4	1221	1394	2.339934	
4	1	11	66.5			3.556682	
5	2	11	60.7	1649		3.97706	
6	2	11	85	1995		4.86512	
7	3	11	82.1	1213	1777	5.848382	
8	1	11	52.1			6.407821	
9	2	11	57	1997		6.916498	
10	3	11	86.6	1178	1338	7.979866	
11	3	11	58.8	1976	1287	8.933238	
12	2	11	85.7	1005		9.191937	
13	3	11	92.2	1319	1297	10.366324	
14	3	11	96.3	1955	1684	10.655196	
15	1	11	95.2			11.49335	

Bin5 Statistics 6

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	20	52.5	1668	1438	0.042228	1
1	3	20	83.6	1629	1397	1.366246	
2	2	20	57.6	1956		1.785429	
3	2	20	99.1	1240		2.597345	
4	1	20	85.2			3.681411	
5	3	20	90.8	1902	1311	4.101835	
6	2	20	59.9	1264		5.013153	
7	2	20	83	1099		5.848014	
8	2	20	84.6	1220		6.217032	
9	3	20	61.6	1946	1838	7.124595	
10	2	20	75.6	1907		7.765037	
11	2	20	89.8	1548		8.576813	
12	2	20	71	1455		9.335804	
13	1	20	71.9			10.102166	
14	1	20	63.6			10.963146	
15	3	20	56.2	1512	1089	11.766426	

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	16	61.9			0.652215	
1	2	16	97.7	1455		1.098797	
2	1	16	57.1			2.23517	
3	1	16	94.5			3.175908	
4	1	16	53.3			4.105631	
5	3	16	56	1733	1422	5.356819	
6	1	16	54.8			5.759374	1
7	3	16	67.1	1496	1055	7.330462	
8	2	16	70.2	1947		7.45024	
9	3	16	69.6	1873	1505	8.812797	
10	1	16	85.9			9.431129	
11	2	16	66.1	1656		10.391932	
12	1	16	75.4			11.901456	

Bin5 Statistics 8

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	15	98.9	1446		0.167446	
1	3	15	52.7	1111	1385	1.341717	
2	3	15	75.9	1914	1058	2.050975	
3	2	15	51.4	1863		2.155275	
4	2	15	71.8	1072		2.937203	
5	2	15	92.7	1425		4.198541	
6	3	15	88.3	1358	1330	4.367438	
7	1	15	97.2			5.03498	
8	3	15	60.7	1971	1700	6.267595	1
9	2	15	54.3	1560		6.782584	
10	2	15	76.2	1161		7.086305	
11	1	15	80.9			7.79218	
12	2	15	73.1	1846		8.825445	
13	2	15	99.9	1500		9.607449	
14	2	15	82.6	1918		10.269192	
15	1	15	79.3			10.843551	
16	1	15	80.7			11.703219	

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	11	72.3			0.31222	
1	1	11	72.1			1.270877	
2	2	11	58.8	1891		1.945038	
3	3	11	54.6	1770	1116	3.000996	
4	3	11	68.9	1070	1820	3.933533	
5	2	11	72.9	1319		4.610819	
6	3	11	68.7	1187	1586	5.036434	
7	1	11	83			5.757155	1
8	1	11	78			6.964451	
9	1	11	74.8			7.417653	
10	1	11	96.9			8.343756	
11	3	11	76.1	1553	1635	9.345862	
12	2	11	55.4	1533		10.038864	
13	2	11	79	1464		10.911501	
14	2	11	78.5	1724		11.332884	

Bin5 Statistics 10

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	15	68.8	1703	1060	0.433717	
1	3	15	68.7	1920	1203	1.640391	
2	3	15	98.7	1810	1912	2.75647	
3	1	15	95.9			3.788914	
4	2	15	90	1173		4.746069	
5	2	15	99	1156		5.621768	1
6	2	15	90.3	1936		6.50407	
7	2	15	75.3	1610		7.164461	
8	2	15	99.7	1690		8.019347	
9	3	15	67.7	1915	1383	9.027408	
10	1	15	67.5			10.358586	
11	2	15	81.8	1881		11.216982	

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	16	66.8	1282		0.526369	1
1	2	16	88.5	1720		1.054574	
2	2	16	50.2	1408		1.513655	
3	2	16	53.7	1626		2.059165	
4	2	16	51.1	1461		2.817477	
5	3	16	52.6	1413	1313	3.833682	
6	1	16	62.8			4.375474	
7	3	16	81.7	1696	1366	5.220207	
8	3	16	52	1631	1782	5.743433	
9	3	16	72	1215	1786	6.113604	
10	1	16	80.1			7.318429	
11	2	16	71.9	1956		7.978985	
12	2	16	82.1	1656		8.50273	
13	2	16	67.1	1966		9.302457	
14	1	16	65.9			9.665067	
15	1	16	74.6			10.129888	
16	2	16	85.8	1613		11.119157	
17	2	16	90.1	1714		11.342002	

Bin5 Statistics 12

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	13	85.2	1801		0.840576	1
1	1	13	91.8			1.917359	
2	3	13	95.1	1474	1074	2.479541	
3	3	13	80.2	1111	1131	3.787735	
4	1	13	61.1			4.397777	
5	3	13	91.6	1511	1581	6.467126	
6	2	13	79.8	1774		7.411664	
7	1	13	71.8			7.734761	
8	2	13	81	1212		9.137861	
9	2	13	52.4	1148		9.968214	
10	2	13	84.3	1849		11.084224	

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	13	73.3	1174		0.181815	
1	1	13	60.3			1.95262	
2	2	13	58.2	1842		3.594263	
3	3	13	74.9	1127	1852	4.180183	
4	2	13	98.9	1578		6.281162	1
5	2	13	52.3	1435		6.735131	
6	2	13	53.2	1150		8.855053	
7	1	13	76.3			9.950592	
8	2	13	90.1	1526		11.627259	

Bin5 Statistics 14

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	15	82.2	1839		0.78087	
1	2	15	67.2	1559		1.694179	
2	3	15	93.4	1303	1390	2.642393	
3	2	15	90	1204		3.630599	
4	2	15	80.1	1394		4.172576	
5	2	15	76.9	1430		5.108497	
6	3	15	66.2	1627	1541	5.583479	1
7	1	15	51.1			6.5165	
8	3	15	66.9	1934	1267	7.632098	
9	3	15	68.6	1761	1741	9.018915	
10	2	15	81.9	1671		9.932755	
11	2	15	79.3	1275		10.826704	
12	3	15	54.1	1382	1740	11.410034	

Bin5 Statistics 15

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	13	66.5			0.102069	1
1	2	13	56.4	1712		1.279319	
2	2	13	68.8	1402		1.740682	
3	2	13	70.9	1359		2.50432	
4	2	13	50.5	1747		3.292723	
5	2	13	89.2	1626		4.660322	
6	3	13	99.6	1806	1353	5.514311	
7	2	13	90.6	1741		6.273057	
8	1	13	56			7.145685	
9	2	13	59.3	1956		7.357771	
10	2	13	82.6	1940		8.43921	
11	1	13	73.9			9.505565	
12	2	13	80.5	1618		10.132365	
13	2	13	90.5	1430		11.077792	
14	3	13	93.6	1881	1967	11.443656	

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	13	84.7	1943		0.124814	1
1	1	13	80			1.055011	
2	2	13	99.4	1579		1.825575	
3	3	13	92.6	1316	1680	3.098533	
4	3	13	81.1	1771	1717	3.567234	
5	2	13	54.4	1367		4.675851	
6	2	13	51.3	1443		5.469084	
7	1	13	70.5			6.19905	
8	2	13	95.9	1604		7.085863	
9	1	13	55.1			8.248308	
10	2	13	87.4	1392		9.310283	
11	3	13	62.2	1931	1735	10.125302	
12	1	13	76.8			10.724449	
13	3	13	63.4	1123	1610	11.832527	

Bin5 Statistics 17

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	11	58.9	1033	1171	0.079204	1
1	2	11	92.5	1327		1.988374	
2	2	11	92.8	1704		2.946732	
3	3	11	82.7	1438	1927	3.721092	
4	3	11	63.9	1946	1782	5.12518	
5	2	11	85.7	1306		6.477921	
6	3	11	71.1	1202	1288	6.976454	
7	1	11	80.4			8.477933	
8	3	11	87.9	1628	1354	9.103855	
9	2	11	70.4	1291		10.652878	
10	2	11	94.4	1867		11.378945	

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	10	61.3	1361	1511	0.53408	1
1	1	10	85.5			1.183196	
2	1	10	80.5			1.393124	
3	2	10	75	1054		2.101088	
4	2	10	97.9	1051		3.274707	
5	3	10	99.8	1837	1559	3.542451	
6	2	10	87.8	1437		4.522122	
7	2	10	68.6	1364		4.7669	
8	1	10	59.9			5.648159	
9	3	10	82.4	1838	1760	6.625306	
10	1	10	91.1			6.677665	
11	2	10	59.5	1001		7.958191	
12	1	10	59.8			8.345425	
13	2	10	92.2	1686		8.9809	
14	2	10	83.2	1839		9.535675	
15	3	10	86.8	1440	1999	10.24557	
16	1	10	55.1			11.176431	
17	1	10	57.9			11.85186	

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	71.3	1071		0.272424	
1	2	13	95.2	1880		1.216853	
2	1	13	65.7			1.92859	
3	2	13	66.7	1351		2.275951	
4	2	13	61.8	1239		3.49369	
5	3	13	52.1	1421	1392	3.808458	
6	2	13	90.4	1477		4.897182	
7	1	13	95.7			5.485231	
8	3	13	65.7	1586	1281	5.865331	1
9	2	13	97.4	1602		6.631124	
10	3	13	60.3	1588	1880	7.079861	
11	2	13	89.3	1994		8.045684	
12	1	13	86.8			8.966458	
13	3	13	86.5	1416	1902	9.739196	
14	3	13	75.8	1055	1153	9.993442	
15	2	13	68.2	1666		11.288058	
16	1	13	98.4			11.690222	

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	7	70	1525	1103	0.438809	
1	2	7	98.9	1924		1.210427	
2	1	7	57.5			1.600279	
3	3	7	52.2	1429	1231	2.794878	
4	1	7	78.7			2.92418	
5	2	7	91.3	1593		3.873154	
6	2	7	64.2	1665		4.572446	
7	2	7	55.7	1743		4.954006	
8	3	7	63.3	1013	1119	6.098931	1
9	2	7	54.7	1716		6.960723	
10	2	7	96.2	1481		7.245716	
11	2	7	69.5	1671		8.248194	
12	2	7	61.3	1537		8.779489	
13	2	7	70.6	1652		9.678914	
14	2	7	89.1	1161		10.451484	
15	2	7	63.7	1125		11.257721	
16	2	7	65.4	1553		11.356575	

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	13	86.6	1641		0.81003	
1	2	13	60.4	1284		1.813913	
2	2	13	72.5	1606		2.185014	
3	2	13	73.8	1294		3.351243	
4	1	13	98.7			4.306489	
5	2	13	51.9	1274		4.868827	
6	2	13	69.9	1206		5.822122	1
7	2	13	83.7	1767		7.059271	
8	2	13	92.8	1040		7.428995	
9	2	13	65	1526		8.993569	
10	3	13	95.3	1339	1190	9.377182	
11	3	13	77.1	1096	1543	10.599411	
12	2	13	98.5	1825		11.711531	

Bin5 Statistics 22

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	11	79.7	1789		0.095593	
1	2	11	81.3	1228		1.38365	
2	2	11	91.7	1555		2.25862	
3	2	11	61.8	1996		2.874774	
4	2	11	70.6	1340		3.419995	
5	3	11	58.4	1836	1503	4.470239	
6	3	11	76.2	1223	1039	5.573067	
7	2	11	78.1	1903		6.327859	1
8	3	11	52.9	1930	1225	7.130579	
9	2	11	63.1	1842		7.203222	
10	2	11	79.4	1502		8.698262	
11	2	11	55	1227		9.264856	
12	2	11	65.9	1182		9.857514	
13	3	11	82.3	1991	1244	10.525374	
14	2	11	74	1865		11.309996	

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	15	85.3	1032		0.103568	1
1	2	15	77.8	1071		0.64739	
2	2	15	98.9	1637		1.248839	
3	1	15	66.7			1.96387	
4	2	15	91.6	1957		2.72762	
5	2	15	74.3	1685		3.0633	
6	2	15	67.1	1724		4.050849	
7	2	15	94.8	1354		4.29908	
8	1	15	57.8			5.195251	
9	1	15	69.3			5.693853	
10	2	15	86.4	1550		6.330098	
11	1	15	92.7			6.683591	
12	1	15	57.7			7.617588	
13	3	15	95.6	1913	1544	7.874443	
14	3	15	91.6	1433	1301	8.452908	
15	1	15	52.3			9.07197	
16	2	15	58.5	1311		9.711765	
17	3	15	64.7	1512	1666	10.27171	
18	3	15	55.3	1558	1942	10.861673	
19	2	15	77.4	1186		11.860024	

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	17	77.8	1310	1274	0.201877	1
1	1	17	50.4			2.063282	
2	2	17	52.8	1572		2.939255	
3	2	17	98.2	1047		4.507638	
4	2	17	62.9	1069		5.326751	
5	3	17	69.4	1922	1369	6.945776	
6	2	17	85.9	1077		7.701558	
7	2	17	60.7	1423		8.99377	
8	1	17	74.9			9.80573	
9	2	17	54.3	1689		11.610634	

Bin5 Statistics 25

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	14	80			0.223105	
1	3	14	52.3	1389	1181	0.735449	
2	2	14	67.7	1775		1.533525	
3	3	14	57	1735	1767	2.27044	
4	2	14	57.5	1470		2.529353	
5	2	14	58.8	1725		3.422449	
6	1	14	83.8			4.105635	
7	3	14	66.1	1118	1988	4.603963	
8	2	14	53.1	1005		5.119526	
9	2	14	94.7	1592		5.769054	1
10	3	14	62.4	1343	1016	6.472596	
11	2	14	51.1	1837		7.337133	
12	1	14	55.6			8.107744	
13	2	14	73.7	1234		8.723662	
14	2	14	96.9	1186		8.936711	
15	2	14	84.9	1720		9.650108	
16	3	14	85.3	1563	1813	10.262223	
17	2	14	90	1968		10.790119	
18	2	14	86.9	1317		11.584256	

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	11	88.2	1244		0.547125	
1	3	11	68.5	1553	1267	1.369739	
2	2	11	75	1929		2.075856	
3	3	11	82.8	1251	1455	3.67311	
4	3	11	59.5	1501	1927	4.212872	
5	1	11	79.6			5.574588	
6	2	11	62.6	1188		6.9354	1
7	2	11	55.4	1982		7.576329	
8	1	11	69			8.734916	
9	3	11	57	1429	1189	9.186825	
10	3	11	81.6	1192	1118	10.01636	
11	1	11	80.9			11.121114	

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	17	51.4	1229	1407	0.2001	1
1	3	17	70	1512	1277	0.686885	
2	2	17	67.3	1058		1.680902	
3	1	17	72.6			2.282546	
4	1	17	58.2			2.424891	
5	1	17	59			3.306115	
6	2	17	67.4	1535		4.144752	
7	2	17	71	1778		4.647422	
8	3	17	51.4	1589	1149	5.33365	
9	2	17	69.5	1220		5.934567	
10	1	17	53			6.334399	
11	1	17	57.2			6.784872	
12	2	17	73.4	1328		7.380426	
13	3	17	73	1585	1526	8.247625	
14	1	17	69.5			8.682611	
15	2	17	82.9	1516		9.472769	
16	3	17	99.2	1859	1440	9.685907	
17	3	17	54.6	1903	1328	10.259859	
18	2	17	69.2	1217		11.371782	
19	3	17	70.6	1433	1115	11.772188	

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	7	73.6	1004		0.025233	1
1	2	7	76.1	1131		1.269485	
2	2	7	66.5	1335		1.55383	
3	1	7	53.5			2.606811	
4	1	7	50.2			3.144302	
5	2	7	57.3	1798		3.756584	
6	2	7	78.6	1325		4.048593	
7	2	7	63.4	1861		5.086306	
8	2	7	99.5	1084		5.796697	
9	2	7	97.9	1926		6.235579	
10	2	7	91.4	1113		6.871441	
11	1	7	87.2			7.465461	
12	2	7	52.3	1648		8.277632	
13	3	7	61.2	1996	1819	9.061648	
14	2	7	52.4	1512		9.788629	
15	2	7	56.2	1444		10.196961	
16	2	7	55.5	1926		11.111804	
17	3	7	79.6	1110	1257	11.550047	

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	11	59.8			0.163242	
1	2	11	66.6	1053		0.871581	
2	2	11	73.6	1803		1.459543	
3	1	11	52.6			1.920462	
4	1	11	77.7			2.563874	
5	3	11	88.2	1822	1592	3.221607	
6	2	11	50.2	1014		4.140771	
7	1	11	53.7			5.049864	
8	2	11	53.9	1387		5.572726	
9	2	11	95.6	1144		6.176044	1
10	1	11	82.3			6.802137	
11	2	11	65.5	1111		7.195635	
12	3	11	75.3	1111	1037	7.676121	
13	3	11	90.3	1214	1453	8.478147	
14	2	11	56.5	1406		8.916904	
15	2	11	99.2	1454		9.831039	
16	3	11	57.1	1073	1334	10.608578	
17	2	11	64.7	1430		11.236864	
18	1	11	89.2			11.63031	

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	16	79.9	1711		0.408913	
1	1	16	61.1			0.937369	
2	2	16	52.1	1951		1.547754	
3	1	16	92.9			2.351317	
4	1	16	55.1			2.617932	
5	2	16	75.2	1153		3.288302	
6	1	16	67.2			4.25027	
7	2	16	73.9	1759		4.939972	
8	2	16	69.8	1805		5.570701	
9	3	16	89.7	1105	1896	5.985967	1
10	2	16	61.3	1500		6.498901	
11	3	16	98.2	1952	1262	7.283478	
12	2	16	77.8	1715		8.137852	
13	1	16	81.9			8.692142	
14	3	16	64.5	1377	1416	9.031835	
15	2	16	91.6	1046		10.076476	
16	1	16	66.7			10.121647	
17	2	16	91.8	1660		11.120785	
18	2	16	53.1	1358		11.621852	

Table-6 Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)	Hopping Sequence
1	5270	9	1	333	1	5691.0, 5532.0, 5326.0, 5319.0, 5495.0, 5524.0, 5552.0, 5468.0, 5607.0, 5621.0, 5346.0, 5565.0, 5530.0, 5724.0, 5282.0, 5592.0, 5260.0, 5496.0, 5558.0, 5562.0, 5422.0, 5704.0, 5627.0, 5305.0, 5580.0, 5701.0, 5568.0, 5545.0, 5376.0, 5342.0, 5671.0, 5668.0, 5330.0, 5471.0, 5459.0, 5544.0, 5515.0, 5287.0, 5638.0, 5585.0, 5708.0, 5564.0, 5311.0, 5341.0, 5432.0, 5486.0, 5293.0, 5488.0, 5444.0, 5492.0, 5390.0, 5270.0, 5670.0, 5263.0, 5572.0, 5275.0, 5527.0, 5584.0, 5306.0, 5449.0, 5253.0, 5265.0, 5591.0, 5396.0, 5682.0, 5609.0, 5689.0, 5693.0, 5714.0, 5652.0, 5331.0, 5367.0, 5289.0, 5258.0, 5637.0, 5345.0, 5271.0, 5654.0, 5278.0, 5697.0, 5703.0, 5383.0, 5366.0, 5467.0, 5538.0, 5684.0, 5561.0, 5550.0, 5268.0, 5325.0, 5409.0, 5634.0, 5642.0, 5539.0, 5315.0, 5412.0, 5722.0, 5660.0, 5350.0, 5398.0 (number of hits: 12)
2	5270	9	1	333	1	5382.0, 5287.0, 5544.0, 5420.0, 5343.0, 5313.0, 5472.0, 5408.0, 5710.0, 5711.0, 5497.0, 5376.0, 5705.0, 5635.0, 5648.0, 5365.0, 5388.0, 5261.0, 5391.0, 5724.0, 5640.0, 5256.0, 5557.0, 5641.0, 5380.0, 5602.0, 5498.0, 5325.0, 5693.0, 5518.0, 5541.0, 5304.0, 5701.0, 5478.0, 5265.0, 5438.0, 5336.0, 5465.0, 5524.0, 5630.0, 5395.0, 5270.0, 5491.0, 5646.0, 5423.0, 5560.0, 5670.0, 5329.0, 5335.0, 5371.0, 5385.0, 5652.0, 5589.0, 5501.0, 5446.0, 5447.0, 5543.0, 5531.0, 5433.0, 5282.0, 5300.0, 5555.0, 5489.0, 5631.0, 5271.0, 5573.0, 5655.0, 5266.0, 5684.0, 5672.0, 5604.0, 5610.0, 5720.0, 5483.0, 5355.0, 5462.0, 5537.0, 5344.0, 5618.0, 5484.0, 5402.0, 5676.0, 5285.0, 5671.0, 5613.0, 5323.0, 5704.0, 5275.0, 5448.0, 5312.0, 5453.0, 5606.0, 5597.0, 5360.0, 5419.0, 5546.0, 5268.0, 5509.0, 5442.0, 5657.0 (number of hits: 11)
3	5270	9	1	333	1	5501.0, 5335.0, 5699.0, 5540.0, 5457.0, 5343.0, 5313.0, 5525.0, 5558.0, 5268.0, 5557.0, 5610.0, 5413.0, 5609.0, 5591.0, 5648.0, 5284.0, 5644.0, 5400.0, 5503.0, 5463.0, 5637.0, 5654.0, 5686.0, 5475.0, 5724.0, 5403.0, 5311.0, 5679.0, 5596.0, 5613.0, 5347.0, 5419.0, 5251.0, 5592.0, 5429.0, 5332.0, 5337.0, 5308.0, 5370.0, 5333.0, 5572.0, 5452.0, 5623.0, 5656.0, 5292.0, 5602.0, 5488.0, 5629.0, 5453.0, 5322.0, 5279.0, 5462.0, 5315.0, 5301.0,

						5652.0, 5639.0, 5349.0, 5309.0, 5543.0, 5645.0, 5269.0, 5321.0, 5477.0, 5683.0, 5688.0, 5481.0, 5682.0, 5379.0, 5307.0, 5624.0, 5417.0, 5465.0, 5422.0, 5618.0, 5510.0, 5517.0, 5434.0, 5593.0, 5589.0, 5448.0, 5389.0, 5666.0, 5562.0, 5482.0, 5267.0, 5573.0, 5506.0, 5296.0, 5502.0, 5314.0, 5556.0, 5551.0, 5440.0, 5569.0, 5325.0, 5625.0, 5366.0, 5361.0, 5570.0 (number of hits: 6)
4	5270	9	1	333	1	5414.0, 5705.0, 5407.0, 5429.0, 5654.0, 5422.0, 5577.0, 5524.0, 5420.0, 5478.0, 5413.0, 5488.0, 5299.0, 5556.0, 5376.0, 5310.0, 5482.0, 5467.0, 5603.0, 5704.0, 5552.0, 5622.0, 5450.0, 5528.0, 5383.0, 5682.0, 5485.0, 5449.0, 5278.0, 5391.0, 5612.0, 5592.0, 5500.0, 5317.0, 5468.0, 5674.0, 5565.0, 5539.0, 5362.0, 5285.0, 5366.0, 5526.0, 5722.0, 5594.0, 5329.0, 5436.0, 5591.0, 5632.0, 5402.0, 5639.0, 5626.0, 5457.0, 5419.0, 5666.0, 5590.0, 5433.0, 5284.0, 5680.0, 5511.0, 5335.0, 5392.0, 5717.0, 5499.0, 5424.0, 5409.0, 5283.0, 5583.0, 5304.0, 5560.0, 5464.0, 5598.0, 5434.0, 5641.0, 5463.0, 5470.0, 5334.0, 5700.0, 5354.0, 5377.0, 5356.0, 5614.0, 5415.0, 5487.0, 5255.0, 5593.0, 5448.0, 5374.0, 5257.0, 5469.0, 5286.0, 5355.0, 5507.0, 5273.0, 5579.0, 5344.0, 5325.0, 5262.0, 5400.0, 5667.0, 5587.0 (number of hits: 9)
5	5270	9	1	333	1	5364.0, 5574.0, 5340.0, 5484.0, 5404.0, 5402.0, 5588.0, 5286.0, 5621.0, 5677.0, 5623.0, 5510.0, 5538.0, 5412.0, 5594.0, 5413.0, 5591.0, 5689.0, 5328.0, 5375.0, 5298.0, 5550.0, 5624.0, 5696.0, 5511.0, 5508.0, 5481.0, 5448.0, 5640.0, 5492.0, 5494.0, 5495.0, 5601.0, 5374.0, 5542.0, 5709.0, 5410.0, 5717.0, 5400.0, 5294.0, 5716.0, 5587.0, 5571.0, 5536.0, 5283.0, 5606.0, 5306.0, 5370.0, 5530.0, 5599.0, 5535.0, 5512.0, 5483.0, 5467.0, 5626.0, 5487.0, 5436.0, 5368.0, 5540.0, 5603.0, 5630.0, 5261.0, 5675.0, 5469.0, 5359.0, 5285.0, 5531.0, 5629.0, 5703.0, 5557.0, 5682.0, 5414.0, 5704.0, 5687.0, 5632.0, 5367.0, 5500.0, 5720.0, 5420.0, 5661.0, 5499.0, 5341.0, 5460.0, 5324.0, 5287.0, 5409.0, 5268.0, 5397.0, 5573.0, 5363.0, 5330.0, 5422.0, 5472.0, 5673.0, 5312.0, 5702.0, 5270.0, 5545.0, 5302.0, 5515.0 (number of hits: 7)
6	5270	9	1	333	1	5257.0, 5411.0, 5316.0, 5519.0, 5323.0, 5524.0, 5468.0, 5613.0, 5597.0, 5390.0, 5412.0, 5371.0, 5425.0, 5666.0, 5640.0, 5704.0, 5711.0, 5400.0, 5345.0, 5359.0, 5438.0, 5392.0, 5285.0, 5657.0, 5329.0, 5462.0, 5550.0, 5630.0, 5504.0, 5484.0, 5706.0, 5636.0, 5428.0, 5290.0, 5548.0,

						5643.0, 5253.0, 5585.0, 5295.0, 5722.0, 5632.0, 5393.0, 5573.0, 5565.0, 5431.0, 5709.0, 5679.0, 5297.0, 5466.0, 5338.0, 5443.0, 5692.0, 5495.0, 5310.0, 5349.0, 5354.0, 5693.0, 5331.0, 5683.0, 5665.0, 5668.0, 5255.0, 5698.0, 5720.0, 5452.0, 5487.0, 5600.0, 5523.0, 5715.0, 5617.0, 5260.0, 5332.0, 5553.0, 5289.0, 5695.0, 5415.0, 5517.0, 5251.0, 5278.0, 5427.0, 5441.0, 5708.0, 5568.0, 5671.0, 5520.0, 5494.0, 5416.0, 5473.0, 5311.0, 5376.0, 5301.0, 5256.0, 5433.0, 5439.0, 5618.0, 5263.0, 5606.0, 5252.0, 5430.0, 5705.0 (number of hits: 10)
7	5270	9	1	333	1	5521.0, 5293.0, 5288.0, 5354.0, 5644.0, 5699.0, 5491.0, 5437.0, 5503.0, 5693.0, 5379.0, 5284.0, 5714.0, 5439.0, 5259.0, 5463.0, 5533.0, 5668.0, 5250.0, 5509.0, 5264.0, 5473.0, 5276.0, 5333.0, 5617.0, 5435.0, 5627.0, 5462.0, 5510.0, 5569.0, 5421.0, 5315.0, 5260.0, 5544.0, 5338.0, 5258.0, 5474.0, 5515.0, 5449.0, 5560.0, 5303.0, 5416.0, 5487.0, 5601.0, 5555.0, 5310.0, 5662.0, 5715.0, 5404.0, 5661.0, 5461.0, 5408.0, 5403.0, 5321.0, 5525.0, 5577.0, 5596.0, 5564.0, 5283.0, 5409.0, 5573.0, 5615.0, 5475.0, 5585.0, 5597.0, 5592.0, 5384.0, 5581.0, 5442.0, 5604.0, 5703.0, 5438.0, 5359.0, 5417.0, 5334.0, 5443.0, 5398.0, 5459.0, 5522.0, 5431.0, 5524.0, 5511.0, 5583.0, 5271.0, 5357.0, 5713.0, 5476.0, 5624.0, 5613.0, 5554.0, 5565.0, 5504.0, 5563.0, 5490.0, 5589.0, 5289.0, 5361.0, 5319.0, 5256.0, 5350.0 (number of hits: 10)
8	5270	9	1	333	1	5316.0, 5675.0, 5353.0, 5678.0, 5333.0, 5596.0, 5293.0, 5416.0, 5535.0, 5665.0, 5410.0, 5663.0, 5421.0, 5363.0, 5701.0, 5388.0, 5716.0, 5570.0, 5525.0, 5284.0, 5303.0, 5300.0, 5608.0, 5612.0, 5703.0, 5698.0, 5259.0, 5529.0, 5542.0, 5268.0, 5552.0, 5539.0, 5342.0, 5279.0, 5339.0, 5687.0, 5250.0, 5566.0, 5568.0, 5314.0, 5344.0, 5587.0, 5652.0, 5341.0, 5685.0, 5474.0, 5370.0, 5325.0, 5656.0, 5390.0, 5304.0, 5340.0, 5465.0, 5533.0, 5557.0, 5527.0, 5522.0, 5564.0, 5467.0, 5659.0, 5631.0, 5549.0, 5399.0, 5365.0, 5592.0, 5428.0, 5647.0, 5650.0, 5305.0, 5640.0, 5493.0, 5385.0, 5553.0, 5697.0, 5530.0, 5395.0, 5532.0, 5323.0, 5577.0, 5258.0, 5683.0, 5475.0, 5593.0, 5582.0, 5628.0, 5374.0, 5537.0, 5717.0, 5454.0, 5446.0, 5458.0, 5460.0, 5310.0, 5516.0, 5668.0, 5657.0, 5561.0, 5331.0, 5461.0, 5420.0 (number of hits: 5)
9	5270	9	1	333	1	5517.0, 5511.0, 5641.0, 5717.0, 5576.0, 5512.0, 5453.0, 5662.0, 5391.0, 5446.0, 5620.0, 5491.0, 5532.0, 5539.0, 5483.0,

						5674.0, 5546.0, 5284.0, 5456.0, 5522.0, 5365.0, 5328.0, 5264.0, 5286.0, 5629.0, 5464.0, 5556.0, 5461.0, 5516.0, 5455.0, 5692.0, 5650.0, 5348.0, 5297.0, 5664.0, 5688.0, 5719.0, 5457.0, 5571.0, 5661.0, 5278.0, 5485.0, 5568.0, 5504.0, 5683.0, 5663.0, 5489.0, 5470.0, 5466.0, 5639.0, 5329.0, 5337.0, 5294.0, 5353.0, 5396.0, 5637.0, 5521.0, 5280.0, 5357.0, 5567.0, 5623.0, 5597.0, 5678.0, 5630.0, 5301.0, 5421.0, 5459.0, 5316.0, 5714.0, 5502.0, 5655.0, 5557.0, 5376.0, 5320.0, 5480.0, 5656.0, 5548.0, 5525.0, 5263.0, 5311.0, 5633.0, 5347.0, 5715.0, 5302.0, 5515.0, 5648.0, 5252.0, 5657.0, 5253.0, 5652.0, 5372.0, 5585.0, 5531.0, 5314.0, 5675.0, 5603.0, 5645.0, 5367.0, 5369.0, 5256.0 (number of hits: 9)
10	5270	9	1	333	1	5587.0, 5684.0, 5633.0, 5574.0, 5283.0, 5335.0, 5277.0, 5629.0, 5340.0, 5621.0, 5357.0, 5718.0, 5708.0, 5696.0, 5438.0, 5514.0, 5308.0, 5705.0, 5596.0, 5518.0, 5441.0, 5291.0, 5445.0, 5294.0, 5412.0, 5260.0, 5694.0, 5601.0, 5656.0, 5286.0, 5645.0, 5317.0, 5661.0, 5602.0, 5608.0, 5714.0, 5557.0, 5570.0, 5715.0, 5465.0, 5603.0, 5307.0, 5279.0, 5473.0, 5500.0, 5284.0, 5627.0, 5569.0, 5418.0, 5326.0, 5268.0, 5648.0, 5512.0, 5399.0, 5375.0, 5278.0, 5635.0, 5385.0, 5523.0, 5588.0, 5313.0, 5469.0, 5678.0, 5386.0, 5491.0, 5612.0, 5506.0, 5489.0, 5643.0, 5498.0, 5354.0, 5642.0, 5682.0, 5563.0, 5664.0, 5710.0, 5481.0, 5691.0, 5321.0, 5315.0, 5693.0, 5472.0, 5320.0, 5666.0, 5257.0, 5351.0, 5394.0, 5683.0, 5449.0, 5358.0, 5369.0, 5499.0, 5504.0, 5519.0, 5636.0, 5508.0, 5625.0, 5668.0, 5700.0, 5265.0 (number of hits: 10)
11	5270	9	1	333	1	5709.0, 5330.0, 5554.0, 5670.0, 5448.0, 5382.0, 5286.0, 5278.0, 5568.0, 5549.0, 5668.0, 5522.0, 5583.0, 5555.0, 5281.0, 5289.0, 5334.0, 5722.0, 5453.0, 5527.0, 5698.0, 5566.0, 5503.0, 5386.0, 5541.0, 5433.0, 5633.0, 5315.0, 5473.0, 5362.0, 5474.0, 5567.0, 5366.0, 5331.0, 5724.0, 5260.0, 5692.0, 5378.0, 5634.0, 5436.0, 5597.0, 5513.0, 5328.0, 5571.0, 5301.0, 5521.0, 5592.0, 5317.0, 5526.0, 5392.0, 5658.0, 5298.0, 5556.0, 5300.0, 5713.0, 5650.0, 5408.0, 5675.0, 5297.0, 5400.0, 5472.0, 5355.0, 5528.0, 5311.0, 5691.0, 5588.0, 5686.0, 5306.0, 5614.0, 5336.0, 5265.0, 5314.0, 5703.0, 5322.0, 5332.0, 5540.0, 5664.0, 5413.0, 5609.0, 5510.0, 5662.0, 5379.0, 5377.0, 5259.0, 5302.0, 5451.0, 5274.0, 5721.0, 5654.0, 5363.0, 5484.0, 5579.0, 5719.0, 5354.0, 5694.0, 5613.0, 5409.0, 5411.0, 5666.0, 5466.0

						(number of hits: 7)
12	5270	9	1	333	1	5520.0, 5708.0, 5446.0, 5290.0, 5282.0, 5580.0, 5542.0, 5343.0, 5411.0, 5635.0, 5318.0, 5341.0, 5710.0, 5415.0, 5562.0, 5564.0, 5444.0, 5339.0, 5624.0, 5527.0, 5524.0, 5565.0, 5376.0, 5699.0, 5605.0, 5556.0, 5366.0, 5712.0, 5650.0, 5303.0, 5696.0, 5317.0, 5440.0, 5611.0, 5599.0, 5362.0, 5600.0, 5529.0, 5620.0, 5281.0, 5555.0, 5537.0, 5387.0, 5567.0, 5455.0, 5309.0, 5574.0, 5656.0, 5320.0, 5598.0, 5689.0, 5424.0, 5561.0, 5368.0, 5263.0, 5358.0, 5614.0, 5416.0, 5490.0, 5526.0, 5501.0, 5568.0, 5694.0, 5430.0, 5625.0, 5451.0, 5481.0, 5549.0, 5584.0, 5252.0, 5718.0, 5557.0, 5666.0, 5452.0, 5357.0, 5482.0, 5458.0, 5254.0, 5402.0, 5594.0, 5638.0, 5352.0, 5582.0, 5342.0, 5326.0, 5655.0, 5392.0, 5270.0, 5332.0, 5328.0, 5349.0, 5700.0, 5678.0, 5410.0, 5553.0, 5308.0, 5459.0, 5595.0, 5438.0, 5324.0 (number of hits: 6)
13	5270	9	1	333	1	5306.0, 5723.0, 5557.0, 5379.0, 5373.0, 5517.0, 5440.0, 5680.0, 5309.0, 5465.0, 5330.0, 5360.0, 5655.0, 5654.0, 5584.0, 5545.0, 5442.0, 5304.0, 5518.0, 5721.0, 5572.0, 5691.0, 5649.0, 5693.0, 5610.0, 5484.0, 5260.0, 5709.0, 5428.0, 5647.0, 5645.0, 5331.0, 5322.0, 5526.0, 5320.0, 5574.0, 5707.0, 5254.0, 5622.0, 5315.0, 5490.0, 5497.0, 5416.0, 5646.0, 5492.0, 5299.0, 5713.0, 5305.0, 5455.0, 5367.0, 5628.0, 5436.0, 5421.0, 5683.0, 5694.0, 5454.0, 5583.0, 5391.0, 5344.0, 5703.0, 5314.0, 5673.0, 5601.0, 5307.0, 5469.0, 5551.0, 5485.0, 5563.0, 5614.0, 5265.0, 5511.0, 5284.0, 5554.0, 5290.0, 5464.0, 5288.0, 5473.0, 5586.0, 5328.0, 5355.0, 5335.0, 5491.0, 5381.0, 5658.0, 5576.0, 5332.0, 5548.0, 5553.0, 5438.0, 5521.0, 5616.0, 5450.0, 5594.0, 5555.0, 5633.0, 5547.0, 5470.0, 5253.0, 5458.0, 5502.0 (number of hits: 6)
14	5270	9	1	333	1	5434.0, 5470.0, 5670.0, 5415.0, 5431.0, 5642.0, 5440.0, 5507.0, 5637.0, 5288.0, 5534.0, 5556.0, 5664.0, 5349.0, 5617.0, 5690.0, 5583.0, 5433.0, 5518.0, 5305.0, 5493.0, 5391.0, 5266.0, 5499.0, 5293.0, 5598.0, 5436.0, 5553.0, 5516.0, 5604.0, 5607.0, 5439.0, 5467.0, 5468.0, 5659.0, 5473.0, 5329.0, 5335.0, 5605.0, 5396.0, 5449.0, 5542.0, 5280.0, 5254.0, 5538.0, 5577.0, 5252.0, 5428.0, 5282.0, 5632.0, 5422.0, 5487.0, 5300.0, 5652.0, 5488.0, 5421.0, 5404.0, 5600.0, 5636.0, 5688.0, 5392.0, 5559.0, 5442.0, 5382.0, 5465.0, 5385.0, 5550.0, 5361.0, 5648.0, 5337.0, 5585.0, 5692.0, 5535.0, 5597.0, 5524.0, 5299.0, 5423.0, 5276.0, 5314.0, 5562.0,

						5677.0, 5474.0, 5551.0, 5373.0, 5342.0, 5489.0, 5715.0, 5355.0, 5308.0, 5356.0, 5613.0, 5348.0, 5722.0, 5625.0, 5687.0, 5448.0, 5675.0, 5626.0, 5581.0, 5259.0 (number of hits: 8)
15	5270	9	1	333	1	5621.0, 5323.0, 5420.0, 5465.0, 5319.0, 5309.0, 5608.0, 5394.0, 5682.0, 5360.0, 5469.0, 5337.0, 5513.0, 5460.0, 5527.0, 5708.0, 5679.0, 5383.0, 5636.0, 5354.0, 5543.0, 5702.0, 5556.0, 5467.0, 5487.0, 5699.0, 5288.0, 5417.0, 5326.0, 5378.0, 5656.0, 5517.0, 5295.0, 5293.0, 5696.0, 5518.0, 5348.0, 5303.0, 5436.0, 5596.0, 5273.0, 5274.0, 5381.0, 5491.0, 5616.0, 5305.0, 5495.0, 5642.0, 5588.0, 5583.0, 5700.0, 5266.0, 5634.0, 5626.0, 5666.0, 5653.0, 5418.0, 5507.0, 5363.0, 5668.0, 5285.0, 5284.0, 5262.0, 5260.0, 5453.0, 5414.0, 5254.0, 5683.0, 5647.0, 5350.0, 5437.0, 5577.0, 5532.0, 5440.0, 5633.0, 5594.0, 5376.0, 5385.0, 5312.0, 5635.0, 5456.0, 5336.0, 5695.0, 5421.0, 5713.0, 5447.0, 5494.0, 5534.0, 5398.0, 5402.0, 5613.0, 5400.0, 5524.0, 5593.0, 5698.0, 5268.0, 5470.0, 5340.0, 5423.0, 5720.0 (number of hits: 10)
16	5270	9	1	333	1	5499.0, 5251.0, 5330.0, 5612.0, 5512.0, 5502.0, 5505.0, 5530.0, 5610.0, 5256.0, 5379.0, 5413.0, 5314.0, 5687.0, 5579.0, 5303.0, 5378.0, 5623.0, 5348.0, 5647.0, 5627.0, 5498.0, 5380.0, 5659.0, 5494.0, 5319.0, 5405.0, 5302.0, 5534.0, 5600.0, 5365.0, 5321.0, 5480.0, 5277.0, 5254.0, 5537.0, 5381.0, 5425.0, 5442.0, 5276.0, 5447.0, 5536.0, 5714.0, 5416.0, 5439.0, 5476.0, 5306.0, 5384.0, 5282.0, 5252.0, 5716.0, 5723.0, 5383.0, 5367.0, 5675.0, 5691.0, 5460.0, 5547.0, 5652.0, 5528.0, 5655.0, 5327.0, 5278.0, 5266.0, 5649.0, 5563.0, 5337.0, 5701.0, 5525.0, 5621.0, 5645.0, 5690.0, 5532.0, 5407.0, 5402.0, 5611.0, 5341.0, 5643.0, 5589.0, 5526.0, 5605.0, 5433.0, 5593.0, 5500.0, 5668.0, 5609.0, 5637.0, 5469.0, 5650.0, 5358.0, 5663.0, 5453.0, 5577.0, 5692.0, 5382.0, 5722.0, 5581.0, 5555.0, 5705.0, 5683.0 (number of hits: 9)
17	5270	9	1	333	1	5376.0, 5506.0, 5591.0, 5281.0, 5717.0, 5635.0, 5684.0, 5546.0, 5346.0, 5564.0, 5401.0, 5572.0, 5422.0, 5595.0, 5507.0, 5336.0, 5434.0, 5448.0, 5406.0, 5529.0, 5319.0, 5671.0, 5503.0, 5304.0, 5308.0, 5520.0, 5667.0, 5405.0, 5353.0, 5713.0, 5271.0, 5625.0, 5606.0, 5634.0, 5647.0, 5651.0, 5704.0, 5478.0, 5569.0, 5597.0, 5392.0, 5446.0, 5277.0, 5697.0, 5276.0, 5532.0, 5517.0, 5623.0, 5481.0, 5485.0, 5483.0, 5402.0, 5324.0, 5646.0, 5491.0, 5610.0, 5534.0, 5490.0, 5286.0, 5540.0,

						5674.0, 5696.0, 5486.0, 5593.0, 5538.0, 5528.0, 5460.0, 5463.0, 5355.0, 5686.0, 5307.0, 5290.0, 5656.0, 5302.0, 5500.0, 5468.0, 5352.0, 5603.0, 5562.0, 5345.0, 5465.0, 5370.0, 5387.0, 5687.0, 5453.0, 5553.0, 5715.0, 5296.0, 5373.0, 5530.0, 5539.0, 5314.0, 5265.0, 5432.0, 5415.0, 5721.0, 5318.0, 5665.0, 5444.0, 5688.0 (number of hits: 6)
18	5270	9	1	333	1	5289.0, 5478.0, 5483.0, 5291.0, 5373.0, 5601.0, 5516.0, 5374.0, 5480.0, 5602.0, 5712.0, 5579.0, 5595.0, 5381.0, 5708.0, 5667.0, 5628.0, 5384.0, 5633.0, 5442.0, 5334.0, 5537.0, 5583.0, 5509.0, 5697.0, 5252.0, 5649.0, 5457.0, 5475.0, 5444.0, 5350.0, 5600.0, 5372.0, 5559.0, 5686.0, 5343.0, 5691.0, 5569.0, 5332.0, 5382.0, 5624.0, 5702.0, 5438.0, 5459.0, 5426.0, 5609.0, 5405.0, 5466.0, 5517.0, 5259.0, 5279.0, 5714.0, 5447.0, 5265.0, 5500.0, 5340.0, 5650.0, 5614.0, 5717.0, 5455.0, 5472.0, 5388.0, 5402.0, 5495.0, 5420.0, 5553.0, 5469.0, 5709.0, 5534.0, 5626.0, 5570.0, 5471.0, 5395.0, 5512.0, 5435.0, 5530.0, 5573.0, 5578.0, 5415.0, 5599.0, 5299.0, 5349.0, 5375.0, 5550.0, 5634.0, 5612.0, 5303.0, 5519.0, 5485.0, 5575.0, 5645.0, 5428.0, 5347.0, 5632.0, 5660.0, 5288.0, 5462.0, 5378.0, 5688.0, 5562.0 (number of hits: 5)
19	5270	9	1	333	1	5288.0, 5612.0, 5468.0, 5638.0, 5587.0, 5263.0, 5527.0, 5320.0, 5407.0, 5649.0, 5721.0, 5464.0, 5672.0, 5352.0, 5380.0, 5283.0, 5259.0, 5555.0, 5465.0, 5362.0, 5662.0, 5359.0, 5300.0, 5544.0, 5553.0, 5328.0, 5559.0, 5610.0, 5349.0, 5456.0, 5642.0, 5601.0, 5564.0, 5393.0, 5419.0, 5470.0, 5274.0, 5401.0, 5641.0, 5451.0, 5363.0, 5578.0, 5646.0, 5538.0, 5457.0, 5271.0, 5534.0, 5404.0, 5584.0, 5669.0, 5497.0, 5317.0, 5301.0, 5675.0, 5346.0, 5373.0, 5628.0, 5611.0, 5514.0, 5388.0, 5351.0, 5329.0, 5621.0, 5636.0, 5360.0, 5480.0, 5595.0, 5635.0, 5697.0, 5504.0, 5293.0, 5524.0, 5267.0, 5644.0, 5700.0, 5418.0, 5708.0, 5311.0, 5298.0, 5448.0, 5286.0, 5399.0, 5385.0, 5425.0, 5648.0, 5413.0, 5588.0, 5469.0, 5618.0, 5394.0, 5314.0, 5719.0, 5281.0, 5414.0, 5331.0, 5558.0, 5703.0, 5656.0, 5270.0, 5338.0 (number of hits: 10)
20	5270	9	1	333	1	5403.0, 5623.0, 5431.0, 5343.0, 5678.0, 5618.0, 5404.0, 5307.0, 5694.0, 5282.0, 5452.0, 5533.0, 5316.0, 5334.0, 5516.0, 5620.0, 5288.0, 5612.0, 5311.0, 5558.0, 5508.0, 5538.0, 5653.0, 5658.0, 5347.0, 5683.0, 5482.0, 5264.0, 5651.0, 5592.0, 5379.0, 5591.0, 5294.0, 5399.0, 5427.0, 5362.0, 5277.0, 5626.0, 5672.0, 5660.0,

						5588.0, 5565.0, 5604.0, 5661.0, 5324.0, 5451.0, 5375.0, 5434.0, 5545.0, 5562.0, 5365.0, 5418.0, 5706.0, 5351.0, 5464.0, 5433.0, 5644.0, 5438.0, 5299.0, 5547.0, 5339.0, 5270.0, 5321.0, 5296.0, 5398.0, 5668.0, 5317.0, 5485.0, 5333.0, 5459.0, 5435.0, 5577.0, 5681.0, 5325.0, 5387.0, 5446.0, 5295.0, 5703.0, 5493.0, 5589.0, 5710.0, 5341.0, 5454.0, 5439.0, 5463.0, 5396.0, 5422.0, 5518.0, 5656.0, 5251.0, 5526.0, 5273.0, 5423.0, 5395.0, 5561.0, 5716.0, 5420.0, 5442.0, 5450.0, 5271.0 (number of hits: 8)
21	5270	9	1	333	1	5436.0, 5251.0, 5418.0, 5275.0, 5432.0, 5499.0, 5709.0, 5605.0, 5441.0, 5378.0, 5611.0, 5662.0, 5692.0, 5517.0, 5468.0, 5375.0, 5459.0, 5357.0, 5653.0, 5421.0, 5584.0, 5713.0, 5414.0, 5425.0, 5387.0, 5328.0, 5308.0, 5379.0, 5531.0, 5366.0, 5526.0, 5610.0, 5358.0, 5452.0, 5470.0, 5428.0, 5665.0, 5524.0, 5420.0, 5350.0, 5388.0, 5373.0, 5556.0, 5513.0, 5292.0, 5293.0, 5690.0, 5597.0, 5296.0, 5304.0, 5501.0, 5666.0, 5534.0, 5450.0, 5320.0, 5427.0, 5652.0, 5537.0, 5532.0, 5554.0, 5335.0, 5683.0, 5437.0, 5506.0, 5412.0, 5430.0, 5271.0, 5715.0, 5497.0, 5492.0, 5385.0, 5435.0, 5467.0, 5376.0, 5640.0, 5643.0, 5283.0, 5438.0, 5558.0, 5703.0, 5710.0, 5500.0, 5479.0, 5312.0, 5285.0, 5613.0, 5576.0, 5443.0, 5540.0, 5595.0, 5525.0, 5708.0, 5549.0, 5519.0, 5601.0, 5649.0, 5659.0, 5559.0, 5386.0, 5410.0 (number of hits: 5)
22	5270	9	1	333	1	5588.0, 5268.0, 5465.0, 5355.0, 5557.0, 5509.0, 5493.0, 5445.0, 5696.0, 5361.0, 5258.0, 5569.0, 5582.0, 5644.0, 5388.0, 5708.0, 5677.0, 5525.0, 5676.0, 5604.0, 5450.0, 5552.0, 5589.0, 5624.0, 5480.0, 5301.0, 5576.0, 5690.0, 5350.0, 5289.0, 5358.0, 5640.0, 5449.0, 5484.0, 5479.0, 5656.0, 5435.0, 5462.0, 5573.0, 5684.0, 5666.0, 5421.0, 5607.0, 5332.0, 5519.0, 5333.0, 5475.0, 5285.0, 5294.0, 5452.0, 5514.0, 5457.0, 5250.0, 5618.0, 5413.0, 5580.0, 5706.0, 5341.0, 5409.0, 5620.0, 5354.0, 5432.0, 5658.0, 5627.0, 5371.0, 5707.0, 5379.0, 5542.0, 5427.0, 5324.0, 5649.0, 5302.0, 5274.0, 5654.0, 5393.0, 5323.0, 5505.0, 5392.0, 5508.0, 5496.0, 5595.0, 5611.0, 5511.0, 5631.0, 5337.0, 5522.0, 5663.0, 5338.0, 5561.0, 5606.0, 5518.0, 5343.0, 5351.0, 5381.0, 5574.0, 5471.0, 5714.0, 5560.0, 5308.0, 5655.0 (number of hits: 4)
23	5270	9	1	333	1	5696.0, 5631.0, 5256.0, 5444.0, 5703.0, 5642.0, 5317.0, 5546.0, 5477.0, 5430.0, 5446.0, 5325.0, 5338.0, 5355.0, 5502.0, 5597.0, 5626.0, 5662.0, 5643.0, 5545.0,

						5281.0, 5445.0, 5565.0, 5459.0, 5719.0, 5640.0, 5293.0, 5600.0, 5647.0, 5724.0, 5462.0, 5352.0, 5298.0, 5602.0, 5252.0, 5273.0, 5283.0, 5666.0, 5675.0, 5528.0, 5412.0, 5644.0, 5251.0, 5397.0, 5618.0, 5456.0, 5275.0, 5433.0, 5598.0, 5469.0, 5544.0, 5499.0, 5507.0, 5535.0, 5671.0, 5498.0, 5582.0, 5693.0, 5274.0, 5359.0, 5577.0, 5681.0, 5709.0, 5697.0, 5292.0, 5474.0, 5632.0, 5396.0, 5354.0, 5641.0, 5401.0, 5441.0, 5576.0, 5630.0, 5424.0, 5466.0, 5349.0, 5563.0, 5432.0, 5331.0, 5255.0, 5560.0, 5316.0, 5389.0, 5684.0, 5326.0, 5549.0, 5517.0, 5437.0, 5303.0, 5542.0, 5589.0, 5568.0, 5663.0, 5451.0, 5385.0, 5515.0, 5588.0, 5473.0, 5443.0 (number of hits: 9)
24	5270	9	1	333	1	5526.0, 5479.0, 5255.0, 5607.0, 5251.0, 5559.0, 5304.0, 5283.0, 5301.0, 5455.0, 5520.0, 5401.0, 5437.0, 5459.0, 5342.0, 5569.0, 5463.0, 5447.0, 5501.0, 5362.0, 5574.0, 5285.0, 5498.0, 5572.0, 5655.0, 5438.0, 5448.0, 5287.0, 5699.0, 5457.0, 5303.0, 5299.0, 5632.0, 5710.0, 5558.0, 5416.0, 5493.0, 5684.0, 5667.0, 5332.0, 5288.0, 5650.0, 5436.0, 5389.0, 5485.0, 5474.0, 5643.0, 5415.0, 5625.0, 5452.0, 5708.0, 5404.0, 5638.0, 5651.0, 5430.0, 5623.0, 5385.0, 5719.0, 5337.0, 5588.0, 5622.0, 5356.0, 5722.0, 5661.0, 5292.0, 5402.0, 5633.0, 5423.0, 5393.0, 5711.0, 5646.0, 5442.0, 5619.0, 5444.0, 5614.0, 5611.0, 5564.0, 5626.0, 5653.0, 5492.0, 5477.0, 5616.0, 5358.0, 5571.0, 5347.0, 5284.0, 5671.0, 5312.0, 5554.0, 5343.0, 5269.0, 5624.0, 5297.0, 5262.0, 5472.0, 5446.0, 5583.0, 5418.0, 5665.0, 5451.0 (number of hits: 9)
25	5270	9	1	333	1	5712.0, 5540.0, 5429.0, 5294.0, 5440.0, 5291.0, 5595.0, 5672.0, 5306.0, 5336.0, 5659.0, 5330.0, 5556.0, 5680.0, 5256.0, 5705.0, 5589.0, 5394.0, 5303.0, 5496.0, 5690.0, 5547.0, 5343.0, 5697.0, 5387.0, 5337.0, 5253.0, 5485.0, 5459.0, 5638.0, 5472.0, 5367.0, 5398.0, 5584.0, 5532.0, 5511.0, 5640.0, 5458.0, 5413.0, 5636.0, 5719.0, 5571.0, 5278.0, 5489.0, 5289.0, 5617.0, 5377.0, 5693.0, 5490.0, 5373.0, 5585.0, 5594.0, 5620.0, 5624.0, 5473.0, 5260.0, 5522.0, 5466.0, 5326.0, 5298.0, 5274.0, 5333.0, 5483.0, 5720.0, 5449.0, 5335.0, 5372.0, 5527.0, 5358.0, 5251.0, 5344.0, 5671.0, 5600.0, 5486.0, 5623.0, 5452.0, 5319.0, 5267.0, 5323.0, 5497.0, 5644.0, 5628.0, 5651.0, 5467.0, 5415.0, 5268.0, 5432.0, 5470.0, 5363.0, 5444.0, 5462.0, 5567.0, 5550.0, 5351.0, 5699.0, 5513.0, 5468.0, 5517.0, 5689.0, 5633.0 (number of hits: 8)

26	5270	9	1	333	1	5697.0, 5252.0, 5637.0, 5400.0, 5558.0, 5393.0, 5705.0, 5464.0, 5642.0, 5534.0, 5588.0, 5699.0, 5680.0, 5479.0, 5271.0, 5537.0, 5320.0, 5635.0, 5565.0, 5365.0, 5288.0, 5550.0, 5372.0, 5399.0, 5480.0, 5555.0, 5662.0, 5718.0, 5346.0, 5658.0, 5444.0, 5571.0, 5597.0, 5722.0, 5675.0, 5475.0, 5356.0, 5566.0, 5378.0, 5430.0, 5619.0, 5500.0, 5649.0, 5678.0, 5624.0, 5454.0, 5326.0, 5471.0, 5453.0, 5494.0, 5330.0, 5544.0, 5391.0, 5693.0, 5496.0, 5442.0, 5424.0, 5262.0, 5690.0, 5481.0, 5529.0, 5677.0, 5367.0, 5286.0, 5388.0, 5443.0, 5377.0, 5273.0, 5477.0, 5467.0, 5719.0, 5293.0, 5492.0, 5296.0, 5422.0, 5552.0, 5421.0, 5483.0, 5451.0, 5311.0, 5587.0, 5364.0, 5348.0, 5522.0, 5557.0, 5359.0, 5428.0, 5264.0, 5315.0, 5474.0, 5458.0, 5674.0, 5654.0, 5267.0, 5302.0, 5610.0, 5404.0, 5531.0, 5703.0, 5316.0 (number of hits: 8)
27	5270	9	1	333	1	5472.0, 5562.0, 5375.0, 5541.0, 5460.0, 5289.0, 5660.0, 5514.0, 5443.0, 5347.0, 5351.0, 5264.0, 5281.0, 5376.0, 5632.0, 5309.0, 5328.0, 5584.0, 5373.0, 5598.0, 5558.0, 5356.0, 5366.0, 5668.0, 5603.0, 5651.0, 5266.0, 5321.0, 5345.0, 5488.0, 5702.0, 5454.0, 5277.0, 5697.0, 5311.0, 5596.0, 5681.0, 5304.0, 5258.0, 5711.0, 5299.0, 5544.0, 5672.0, 5639.0, 5720.0, 5401.0, 5406.0, 5369.0, 5383.0, 5430.0, 5543.0, 5602.0, 5503.0, 5685.0, 5436.0, 5722.0, 5676.0, 5456.0, 5414.0, 5493.0, 5546.0, 5433.0, 5352.0, 5325.0, 5513.0, 5664.0, 5392.0, 5273.0, 5700.0, 5683.0, 5438.0, 5703.0, 5522.0, 5280.0, 5404.0, 5305.0, 5625.0, 5389.0, 5677.0, 5588.0, 5557.0, 5617.0, 5391.0, 5530.0, 5622.0, 5585.0, 5380.0, 5608.0, 5303.0, 5575.0, 5419.0, 5471.0, 5338.0, 5690.0, 5318.0, 5272.0, 5365.0, 5302.0, 5477.0, 5487.0 (number of hits: 8)
28	5270	9	1	333	1	5354.0, 5536.0, 5448.0, 5398.0, 5491.0, 5336.0, 5346.0, 5288.0, 5379.0, 5380.0, 5474.0, 5567.0, 5524.0, 5478.0, 5471.0, 5284.0, 5310.0, 5263.0, 5319.0, 5545.0, 5544.0, 5546.0, 5513.0, 5386.0, 5378.0, 5634.0, 5439.0, 5494.0, 5344.0, 5569.0, 5363.0, 5318.0, 5342.0, 5283.0, 5720.0, 5291.0, 5629.0, 5277.0, 5593.0, 5265.0, 5339.0, 5286.0, 5689.0, 5361.0, 5540.0, 5460.0, 5600.0, 5441.0, 5404.0, 5589.0, 5382.0, 5578.0, 5479.0, 5541.0, 5704.0, 5407.0, 5311.0, 5270.0, 5596.0, 5268.0, 5712.0, 5683.0, 5472.0, 5599.0, 5287.0, 5717.0, 5679.0, 5437.0, 5455.0, 5430.0, 5639.0, 5655.0, 5309.0, 5686.0, 5271.0, 5622.0, 5486.0, 5422.0, 5555.0, 5289.0, 5426.0, 5604.0, 5703.0, 5259.0, 5376.0,

						5701.0, 5353.0, 5707.0, 5564.0, 5501.0, 5508.0, 5307.0, 5607.0, 5329.0, 5499.0, 5463.0, 5431.0, 5685.0, 5459.0, 5372.0 (number of hits: 12)
29	5270	9	1	333	1	5574.0, 5552.0, 5385.0, 5284.0, 5403.0, 5584.0, 5412.0, 5428.0, 5706.0, 5613.0, 5513.0, 5447.0, 5598.0, 5485.0, 5502.0, 5579.0, 5497.0, 5345.0, 5326.0, 5322.0, 5269.0, 5489.0, 5251.0, 5283.0, 5316.0, 5532.0, 5538.0, 5390.0, 5460.0, 5299.0, 5522.0, 5517.0, 5721.0, 5580.0, 5553.0, 5484.0, 5507.0, 5657.0, 5293.0, 5272.0, 5528.0, 5336.0, 5347.0, 5281.0, 5724.0, 5401.0, 5617.0, 5708.0, 5441.0, 5285.0, 5603.0, 5672.0, 5256.0, 5616.0, 5396.0, 5591.0, 5468.0, 5656.0, 5570.0, 5325.0, 5470.0, 5317.0, 5575.0, 5275.0, 5711.0, 5519.0, 5368.0, 5478.0, 5718.0, 5582.0, 5358.0, 5707.0, 5523.0, 5488.0, 5314.0, 5625.0, 5638.0, 5520.0, 5313.0, 5416.0, 5462.0, 5549.0, 5266.0, 5291.0, 5312.0, 5260.0, 5491.0, 5330.0, 5424.0, 5420.0, 5259.0, 5530.0, 5512.0, 5693.0, 5653.0, 5661.0, 5599.0, 5429.0, 5352.0, 5719.0 (number of hits: 12)
30	5270	9	1	333	1	5362.0, 5324.0, 5697.0, 5520.0, 5584.0, 5458.0, 5721.0, 5357.0, 5579.0, 5468.0, 5348.0, 5306.0, 5571.0, 5301.0, 5507.0, 5645.0, 5619.0, 5441.0, 5277.0, 5388.0, 5722.0, 5549.0, 5713.0, 5414.0, 5480.0, 5532.0, 5276.0, 5717.0, 5552.0, 5496.0, 5313.0, 5281.0, 5360.0, 5703.0, 5526.0, 5683.0, 5674.0, 5344.0, 5359.0, 5511.0, 5327.0, 5402.0, 5624.0, 5610.0, 5605.0, 5394.0, 5588.0, 5354.0, 5607.0, 5302.0, 5331.0, 5275.0, 5546.0, 5505.0, 5686.0, 5446.0, 5668.0, 5396.0, 5545.0, 5451.0, 5270.0, 5679.0, 5482.0, 5710.0, 5424.0, 5465.0, 5663.0, 5696.0, 5364.0, 5320.0, 5375.0, 5333.0, 5582.0, 5602.0, 5263.0, 5355.0, 5463.0, 5525.0, 5367.0, 5661.0, 5561.0, 5669.0, 5628.0, 5591.0, 5289.0, 5254.0, 5673.0, 5440.0, 5349.0, 5581.0, 5486.0, 5358.0, 5442.0, 5704.0, 5435.0, 5583.0, 5720.0, 5558.0, 5699.0, 5487.0 (number of hits: 7)

5290 MHz, 80 MHz Bandwidth

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1A/1B	30	100 %	60%	Pass
Type 2	30	100 %	60%	Pass
Type 3	30	96.67 %	60%	Pass
Type 4	30	93.33 %	60%	Pass
Aggregate (Type1 to 4)	120	97.5 %	80%	Pass
Type 5	30	100 %	80%	Pass
Type 6	30	100 %	70%	Pass

Please refer to the following statistical tables:

5290 MHz, 80 MHz Bandwidth

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

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5290	81	1	658	1
2	5290	63	1	838	1
3	5290	78	1	678	1
4	5290	89	1	598	1
5	5290	67	1	798	1
6	5290	95	1	558	1
7	5290	61	1	878	1
8	5290	57	1	938	1
9	5290	83	1	638	1
10	5290	74	1	718	1
11	5290	72	1	738	1
12	5290	18	1	3066	1
13	5290	58	1	918	1
14	5290	86	1	618	1
15	5290	62	1	858	1
16	5290	24	1	2290	1
17	5290	101	1	527	1
18	5290	45	1	1175	1
19	5290	29	1	1853	1
20	5290	31	1	1747	1
21	5290	23	1	2369	1
22	5290	24	1	2292	1
23	5290	19	1	2883	1
24	5290	96	1	551	1
25	5290	18	1	3044	1
26	5290	57	1	928	1
27	5290	24	1	2288	1
28	5290	26	1	2071	1
29	5290	82	1	646	1
30	5290	23	1	2311	1
Detection Percentage: 100 % (>60%)					

Table-2 Radar Type 2 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5290	26	1.6	193	1
2	5290	26	4.1	214	1
3	5290	23	3.5	194	1
4	5290	24	2	154	1
5	5290	25	3.9	199	1
6	5290	24	4.5	218	1
7	5290	28	1.8	157	1
8	5290	26	2.3	176	1
9	5290	23	4.2	153	1
10	5290	27	3.8	218	1
11	5290	23	1.5	153	1
12	5290	23	4.5	209	1
13	5290	27	1.7	200	1
14	5290	26	2.6	212	1
15	5290	25	1.9	171	1
16	5290	27	1.8	212	1
17	5290	29	5	188	1
18	5290	26	3.5	154	1
19	5290	29	4.2	224	1
20	5290	29	3.2	196	1
21	5290	28	1.1	219	1
22	5290	26	4.5	171	1
23	5290	27	2.6	167	1
24	5290	24	4.3	226	1
25	5290	27	3.3	183	1
26	5290	23	4.5	208	1
27	5290	26	3.8	173	1
28	5290	28	3.1	202	1
29	5290	24	1.8	177	1
30	5290	23	1.2	209	1
Detection Percentage: 100 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5290	16	6.6	418	1
2	5290	17	6.4	389	1
3	5290	17	7.5	433	1
4	5290	18	6.6	321	1
5	5290	18	7	244	1
6	5290	17	9.3	337	1
7	5290	17	7.6	431	1
8	5290	18	7.6	272	1
9	5290	17	9.6	297	0
10	5290	17	7.6	488	1
11	5290	18	10	326	1
12	5290	16	9.4	226	1
13	5290	18	8.9	217	1
14	5290	16	8.5	460	1
15	5290	18	9.4	437	1
16	5290	17	8.3	313	1
17	5290	16	6.6	349	1
18	5290	18	8.3	331	1
19	5290	17	7.8	307	1
20	5290	18	9.9	339	1
21	5290	17	10	362	1
22	5290	17	8.7	227	1
23	5290	18	9.5	250	1
24	5290	16	9.6	450	1
25	5290	18	10	301	1
26	5290	18	6.8	386	1
27	5290	16	9.7	202	1
28	5290	18	9.4	202	1
29	5290	18	9.8	334	1
30	5290	18	7.2	235	1
Detection Percentage: 96.67 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5290	14	19.1	244	1
2	5290	15	19.5	202	1
3	5290	13	15.4	330	1
4	5290	16	13.1	219	1
5	5290	13	14.6	485	1
6	5290	14	19.3	210	0
7	5290	16	17.5	418	1
8	5290	16	17	373	1
9	5290	14	14.6	248	1
10	5290	16	16.3	475	1
11	5290	14	14.3	417	1
12	5290	14	12.9	365	1
13	5290	16	11.8	447	1
14	5290	15	15.6	486	1
15	5290	14	17.6	221	1
16	5290	14	15.6	204	1
17	5290	15	16.1	312	1
18	5290	15	13.8	356	1
19	5290	14	16.1	397	1
20	5290	15	15.3	211	1
21	5290	13	14.4	480	1
22	5290	15	14.5	288	1
23	5290	14	18	427	1
24	5290	13	13.8	202	1
25	5290	14	12.2	444	1
26	5290	14	18.4	345	1
27	5290	14	18.1	212	1
28	5290	16	12.7	294	1
29	5290	16	16.4	445	1
30	5290	13	11.5	269	0
Detection Percentage: 93.33 % (>60%)					

Table-5 Radar Type 5 Statistical Performance

Trial #	Fc (MHz)	Detection (1:yes; 0:no)
1	5290	1
2	5290	1
3	5290	1
4	5290	1
5	5290	1
6	5290	1
7	5290	1
8	5290	1
9	5290	1
10	5290	1
11	5255.0	1
12	5257.4	1
13	5258.2	1
14	5256.2	1
15	5257.8	1
16	5253.0	1
17	5254.2	1
18	5254.2	1
19	5257.0	1
20	5253.0	1
21	5327.0	1
22	5321.8	1
23	5323.8	1
24	5324.2	1
25	5325.8	1
26	5325.0	1
27	5326.2	1
28	5325.0	1
29	5324.6	1
30	5324.2	1
Detection Percentage: 100 % (>80%)		

Bin5 Statistics 1

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	5	65.3			0.569324	
1	2	5	83.1	1533		0.789952	
2	3	5	69.6	1777	1830	1.680003	
3	2	5	69.7	1150		2.292004	
4	3	5	66.6	1251	1726	3.088047	
5	2	5	68.6	1497		3.675531	
6	3	5	62.4	1019	1272	4.08597	
7	2	5	89.1	1378		4.930952	
8	3	5	67.9	1602	1116	5.345355	
9	2	5	67.5	1495		6.122106	1
10	2	5	86.4	1813		6.343608	
11	2	5	97.1	1069		7.255758	
12	1	5	80.9			7.795112	
13	3	5	89.7	1138	1131	8.339618	
14	2	5	62.4	1431		9.111591	
15	3	5	70.9	1996	1969	9.976539	
16	2	5	58.1	1088		10.615084	
17	1	5	99.5			10.937095	
18	1	5	60			11.368867	

Bin5 Statistics 2

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	6	86.8	1942	1348	0.235072	1
1	1	6	79.9			1.729565	
2	2	6	59.3	1967		2.139869	
3	3	6	54.5	1172	1099	3.352973	
4	1	6	55.4			4.528472	
5	2	6	88.3	1029		5.22689	
6	2	6	58.2	1650		6.137498	
7	1	6	97.6			7.767873	
8	2	6	97.3	1643		8.457278	
9	3	6	87.5	1105	1665	9.592271	
10	2	6	65.1	1737		10.01224	
11	2	6	84.4	1638		11.00536	

Bin5 Statistics 3

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	9	61.9	1387		1.167423	1
1	2	9	67.4	1579		2.252789	
2	2	9	74.6	1056		3.625154	
3	2	9	96	1854		5.150462	
4	1	9	91.9			6.568225	
5	3	9	61.8	1203	1212	7.551392	
6	2	9	55.1	1361		8.922512	
7	2	9	91.2	1341		10.654527	
8	2	9	75.8	1182		10.795189	

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	10	78.4			0.027094	1
1	2	10	84.2	1138		1.080214	
2	3	10	96.3	1935	1981	1.38719	
3	3	10	71.6	1887	1187	2.654182	
4	2	10	61.2	1927		2.956668	
5	1	10	67.9			3.810031	
6	3	10	92.9	1776	1253	4.457253	
7	1	10	83.7			4.995318	
8	1	10	97.1			5.377648	
9	2	10	82.6	1960		6.478061	
10	2	10	95.4	1055		7.112287	
11	2	10	95.1	1243		7.37885	
12	2	10	83.1	1643		8.165285	
13	2	10	70.5	1448		9.207717	
14	2	10	69.6	1801		9.739309	
15	2	10	65.7	1476		10.471753	
16	1	10	55.2			10.776072	
17	2	10	85.2	1287		11.410586	

Bin5 Statistics 5

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	10	67.3	1485	1538	0.465702	1
1	2	10	90.3	1162		1.855675	
2	2	10	90	1237		2.219927	
3	3	10	62	1518	1076	3.536377	
4	2	10	52.1	1937		4.392246	
5	1	10	75			6.381533	
6	1	10	62.6			7.612398	
7	2	10	71.5	1998		7.639614	
8	2	10	67.8	1687		9.234281	
9	2	10	70	1656		10.683666	
10	3	10	77.7	1852	1654	11.676564	

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	14	58.4	1826		0.578926	1
1	3	14	59.1	1672	1965	0.817551	
2	2	14	97.8	1295		1.972859	
3	1	14	51.7			2.177155	
4	3	14	83.7	1246	1898	2.806648	
5	2	14	86	1929		3.72659	
6	3	14	75.2	1789	1821	4.532592	
7	2	14	53.3	1900		4.785292	
8	3	14	58.6	1087	1482	5.372978	
9	3	14	71.5	1738	1302	6.038996	
10	1	14	90.2			7.124484	
11	1	14	63.6			7.800475	
12	2	14	76.6	1396		8.550308	
13	2	14	62.6	1262		8.807713	
14	2	14	63.7	1233		9.767396	
15	1	14	84.7			10.075304	
16	3	14	94.2	1336	1776	11.060707	
17	2	14	56.5	1769		11.408133	

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	5	69.8	1177	1532	0.119331	1
1	2	5	79.8	1707		0.848997	
2	1	5	74			1.547857	
3	3	5	91.1	1817	1335	1.912174	
4	2	5	100	1236		2.513679	
5	1	5	54			3.307192	
6	1	5	76.5			3.845311	
7	2	5	64.6	1601		4.775566	
8	3	5	70.4	1400	1530	5.362977	
9	2	5	73.7	1031		5.869984	
10	3	5	87.7	1480	1120	6.259655	
11	3	5	62.2	1153	1556	7.073246	
12	2	5	95.4	1994		7.682742	
13	2	5	58.9	1283		7.834307	
14	2	5	91.2	1948		8.406681	
15	1	5	65.2			9.101134	
16	2	5	92.3	1639		9.764115	
17	1	5	63.4			10.586609	
18	1	5	93.4			11.089158	
19	1	5	91.2			11.500015	

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	94.6	1060		0.110488	1
1	1	13	83.1			2.119657	
2	2	13	71.8	1851		2.975565	
3	3	13	85.8	1644	1467	4.294629	
4	2	13	95.6	1262		5.249391	
5	2	13	74.7	1337		5.741951	
6	2	13	86.6	1735		7.231712	
7	2	13	57.7	1561		8.396464	
8	3	13	56.2	1789	1756	9.114782	
9	2	13	97.7	1689		10.130025	
10	3	13	79.3	1295	1458	11.263821	

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	5	99.9	1354		0.487274	1
1	1	5	92.9			1.479477	
2	2	5	63.8	1064		2.615412	
3	2	5	54.1	1764		3.15743	
4	2	5	67.8	1246		4.401885	
5	2	5	80.2	1791		5.894392	
6	3	5	87.6	1505	1928	6.35358	
7	2	5	59.3	1515		7.228617	
8	1	5	95.4			8.794131	
9	2	5	70.4	1613		9.970679	
10	3	5	66.2	1195	1149	10.803704	
11	1	5	67.4			11.097709	

Bin5 Statistics 10

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	15	65.1	1585	1035	0.659516	1
1	2	15	57.4	1606		0.891562	
2	3	15	83.3	1317	1276	1.63513	
3	3	15	57.3	1027	1622	2.476072	
4	2	15	75.6	1674		2.840671	
5	2	15	68.3	1871		3.880154	
6	2	15	74.3	1233		4.197284	
7	2	15	69	1200		4.913311	
8	2	15	72.2	1486		5.662665	
9	2	15	52	1381		6.136959	
10	1	15	51.5			7.255757	
11	1	15	67.7			7.588477	
12	2	15	68.3	1386		8.515136	
13	3	15	64	1963	1276	9.066677	
14	3	15	69.9	1782	1476	9.406982	
15	2	15	57.2	1270		10.413823	
16	2	15	80.4	1583		11.294168	
17	1	15	50.8			11.353624	

Bin5 Statistics 11

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	10	84.9	1301	1082	0.937959	
1	2	10	99.8	1861		1.874145	
2	2	10	61.3	1929		3.346574	
3	2	10	93.5	1740		4.205005	
4	2	10	74.4	1623		5.934664	1
5	1	10	90.4			6.93931	
6	1	10	74.1			8.00831	
7	3	10	75.6	1758	1390	9.976177	
8	2	10	52.6	1285		11.751437	

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	16	75.2	1355	1047	1.037636	
1	3	16	91.3	1653	1751	1.201345	
2	3	16	80.6	1873	1547	3.581624	
3	2	16	85.4	1544		4.627055	
4	2	16	73.4	1993		4.945918	
5	1	16	79.4			6.949305	1
6	2	16	57	1878		7.849386	
7	2	16	97	1869		8.476823	
8	3	16	95	1424	1870	9.827771	
9	2	16	79.8	1387		11.085	

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	18	89.9	1597		0.52148	1
1	1	18	97			0.690649	
2	3	18	60.8	1558	1012	1.570128	
3	1	18	80.6			2.512378	
4	2	18	92.1	1224		2.964757	
5	2	18	85.5	1198		3.336095	
6	2	18	92.8	1307		4.384677	
7	1	18	58.9			4.946985	
8	2	18	76.2	1019		5.399821	
9	2	18	57.8	1358		6.289549	
10	1	18	71.6			6.965204	
11	2	18	66.8	1592		7.405693	
12	1	18	60.6			8.353964	
13	1	18	77.1			9.086958	
14	3	18	71.9	1001	1105	9.963159	
15	2	18	61.2	1478		10.39596	
16	3	18	66.4	1460	1835	11.028334	
17	2	18	79	1592		11.353767	

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	13	87.4			0.055096	1
1	2	13	83.9	1348		1.203384	
2	2	13	52.2	1398		2.099299	
3	1	13	53.9			2.362852	
4	2	13	90.5	1915		3.161351	
5	2	13	77.2	1470		3.92256	
6	3	13	72.6	1604	1989	4.697747	
7	3	13	66.3	1324	1169	5.673368	
8	2	13	98.2	1359		6.58312	
9	3	13	98.2	1857	1167	7.482417	
10	3	13	60.3	1228	1366	7.751995	
11	3	13	95	1250	1355	8.982609	
12	2	13	66.6	1882		9.741768	
13	3	13	92.7	1239	1196	9.837937	
14	1	13	56			11.106909	
15	3	13	68.7	1418	1647	11.612728	

Bin5 Statistics 15

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	17	77.6			0.779229	
1	1	17	53.5			1.251878	
2	1	17	93.4			2.32976	
3	2	17	76.2	1338		3.644658	
4	3	17	76.7	1447	1805	5.231941	
5	3	17	53	1130	1478	5.572484	1
6	2	17	85	1628		7.258606	
7	2	17	54.8	1879		8.518219	
8	2	17	98.2	1153		9.759579	
9	3	17	89.5	1254	1919	10.638227	
10	1	17	54.6			11.856969	

Bin5 Statistics 16

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	5	97.2			0.400904	
1	2	5	62.1	1363		1.722639	
2	1	5	62.2			2.783267	
3	2	5	69.8	1774		3.747119	
4	2	5	71.9	1920		5.382094	
5	3	5	53.2	1978	1998	6.459569	1
6	2	5	98.8	1953		7.69898	
7	2	5	83.3	1295		8.898902	
8	2	5	51.4	1996		10.622231	
9	3	5	98.9	1835	1021	10.871916	

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	61.5	1529		0.32413	1
1	2	8	55.6	1679		1.094393	
2	3	8	93.5	1719	1846	2.828427	
3	3	8	69.1	1981	1047	3.097984	
4	2	8	54.3	1702		4.718964	
5	2	8	51.6	1555		5.846642	
6	2	8	84.4	1624		6.319078	
7	3	8	88.1	1698	1033	7.56069	
8	2	8	57	1999		8.601065	
9	2	8	72.2	1073		9.457621	
10	2	8	92.9	1964		10.759487	
11	1	8	83.2			11.906259	

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	8	93.5	1730		0.065909	1
1	2	8	85.4	1841		1.329117	
2	1	8	85.7			1.565172	
3	2	8	93.1	1718		2.329164	
4	2	8	91.1	1342		3.468753	
5	1	8	82.2			4.081126	
6	2	8	61.6	1329		4.782766	
7	1	8	94.6			5.61182	
8	2	8	66.1	1864		6.268205	
9	3	8	53.6	1828	1181	7.488793	
10	3	8	85.7	1304	1714	8.072269	
11	2	8	74.4	1369		8.831608	
12	1	8	55.8			9.494028	
13	2	8	84.9	1219		9.771241	
14	2	8	64.9	1207		10.544025	
15	2	8	70.9	1823		11.60364	

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	15	87.7	1767	1639	0.175545	
1	3	15	71.5	1557	1747	1.59531	
2	2	15	50.2	1083		2.685052	
3	2	15	78.1	1961		4.338146	
4	2	15	99.6	1725		4.681221	
5	2	15	74.3	1450		6.487648	1
6	2	15	51.8	1741		7.14297	
7	3	15	51.7	1195	1413	8.142471	
8	3	15	55.6	1503	1131	9.197056	
9	2	15	90.3	1174		10.688738	
10	1	15	71.3			11.489931	

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	85.2	1432		0.445992	
1	1	5	53.3			1.462442	
2	3	5	88.6	1067	1920	2.206019	
3	2	5	54.6	1207		2.373538	
4	1	5	51			3.230948	
5	2	5	64.4	1708		3.931644	
6	2	5	60	1017		5.184756	
7	3	5	57.6	1092	1439	5.77704	
8	3	5	65.2	1990	1296	6.208193	1
9	3	5	52.3	1013	1776	7.061026	
10	2	5	99.9	1946		7.563881	
11	1	5	66.7			8.725572	
12	1	5	83.7			9.575304	
13	3	5	72.2	1618	1337	10.299649	
14	2	5	81	1755		11.16906	
15	3	5	68.3	1350	1072	11.389599	

Bin5 Statistics 21

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	5	86.7	1653		0.041438	1
1	2	5	71.9	1921		1.630168	
2	3	5	90	1120	1346	1.764369	
3	1	5	98.2			2.952977	
4	2	5	75.9	1930		4.120573	
5	2	5	94.2	1656		4.331836	
6	1	5	56			5.963197	
7	3	5	85.4	1903	1862	6.292456	
8	2	5	74.2	1584		6.960858	
9	2	5	70.3	1529		8.132645	
10	2	5	96.6	1759		9.024721	
11	3	5	73.1	1422	1609	9.71222	
12	1	5	61.6			10.709431	
13	1	5	77.5			11.82313	

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	18	98.1	1316		0.667665	1
1	1	18	73.9			0.961847	
2	3	18	51.8	1591	1516	2.256973	
3	2	18	51.4	1965		2.672203	
4	3	18	63.8	1815	1510	3.700926	
5	2	18	67.6	1046		4.37081	
6	3	18	50.8	1226	1730	5.428305	
7	2	18	81.4	1383		5.694399	
8	1	18	72.6			6.400829	
9	2	18	83	1019		7.496032	
10	2	18	93.2	1302		8.411144	
11	2	18	78.4	1455		9.341705	
12	2	18	93.3	1919		10.136396	
13	2	18	89.1	1886		10.436607	
14	1	18	90.8			11.939573	

Bin5 Statistics 23

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	13	88			0.424216	
1	3	13	71.5	1308	1459	0.974353	
2	3	13	61.7	1451	1495	2.57026	
3	3	13	77.8	1594	1522	3.042681	
4	2	13	63.5	1923		3.82434	
5	2	13	72.4	1611		5.22467	
6	2	13	89.9	1561		6.095455	1
7	3	13	95.8	1308	1835	7.210409	
8	2	13	72.3	1716		8.01029	
9	3	13	52.5	1348	1755	8.471248	
10	2	13	86.7	1030		9.786076	
11	2	13	70	1746		10.483298	
12	3	13	76.7	1565	1274	11.447484	

Bin5 Statistics 24

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	12	98.6	1793		0.106416	
1	1	12	65.9			1.152498	
2	2	12	73.6	1622		1.929444	
3	2	12	62.3	1663		2.791774	
4	1	12	77.6			2.878617	
5	1	12	52.8			4.229399	
6	2	12	95.7	1401		4.709812	
7	2	12	57.7	1299		5.502345	
8	1	12	78.7			6.244531	1
9	2	12	55.4	1578		6.402277	
10	2	12	84.3	1087		7.220798	
11	2	12	91.3	2000		8.004226	
12	1	12	83			8.77292	
13	3	12	52.3	1740	1424	9.476979	
14	2	12	57.8	1027		10.119322	
15	1	12	92.7			11.28565	
16	2	12	81.4	1954		11.562106	

Bin5 Statistics 25

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	8	79.7	1974		0.690008	1
1	2	8	83.1	1138		2.042852	
2	2	8	50.9	1976		2.816569	
3	3	8	94.6	1804	1307	4.092486	
4	2	8	82.5	1565		5.507364	
5	2	8	65.7	1537		6.031315	
6	1	8	93.3			7.370628	
7	2	8	80.8	1636		8.676728	
8	2	8	52	1686		10.541339	
9	2	8	51	1800		11.296875	

Bin5 Statistics 26

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	10	70.4	1754		1.317323	1
1	1	10	55.2			1.978049	
2	2	10	69.2	1035		3.334274	
3	2	10	74.6	1486		5.248058	
4	2	10	60.7	1978		6.327712	
5	2	10	74.7	1816		7.361667	
6	3	10	81.5	1658	1865	9.274756	
7	1	10	84.6			9.715412	
8	2	10	52.4	1133		11.832131	

Bin5 Statistics 27

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	7	91	1565		0.486429	
1	3	7	84.6	1200	1704	1.892535	
2	1	7	99.6			3.260077	
3	1	7	90.9			4.647661	
4	1	7	69.9			6.274085	1
5	3	7	55.4	1882	1419	7.231056	
6	2	7	94.9	1481		8.138734	
7	2	7	61.7	1257		10.318931	
8	2	7	54.2	1661		11.628611	

Bin5 Statistics 28

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	10	72.7	1440	1099	0.547897	
1	2	10	83	1260		0.830772	
2	2	10	97.4	1923		1.387009	
3	2	10	60.6	1004		2.349621	
4	1	10	74.4			2.738314	
5	2	10	95.7	1421		3.100836	
6	3	10	93.2	1155	1536	4.126221	
7	2	10	97.2	1028		4.454779	
8	2	10	55.7	1060		4.976003	
9	3	10	53.6	1202	1132	5.708184	
10	2	10	64.6	1663		6.00563	1
11	1	10	81.3			7.097809	
12	3	10	60.5	1785	1504	7.633463	
13	3	10	89.1	1321	1880	7.919507	
14	1	10	90.6			8.981433	
15	1	10	89.8			9.349459	
16	3	10	82.7	1520	1845	10.131389	
17	1	10	70.8			10.474769	
18	1	10	81.4			10.992907	
19	1	10	96.4			11.492025	

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	11	53.1	1260		0.136062	1
1	3	11	95.6	1189	1637	1.373287	
2	1	11	71.2			2.114856	
3	1	11	64.4			2.991474	
4	2	11	80.7	1409		3.247001	
5	2	11	56.4	1677		3.831374	
6	2	11	79.2	1054		4.555167	
7	2	11	79.7	1258		5.694388	
8	1	11	77.1			6.346307	
9	3	11	67.7	1689	1662	6.811836	
10	2	11	60.3	1859		7.600222	
11	3	11	90.4	1572	1471	8.703095	
12	2	11	92.8	1955		9.413429	
13	2	11	98.1	1630		10.071726	
14	2	11	83.9	1690		11.149126	
15	3	11	99.6	1152	1613	11.654114	

Bin5 Statistics 30

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	12	77.3	1060		0.082542	1
1	2	12	92.3	1200		2.336231	
2	2	12	65.7	1557		3.617413	
3	3	12	53.8	1797	1816	5.882843	
4	2	12	58.5	1481		6.704238	
5	1	12	59.1			8.374118	
6	3	12	76.5	1474	1934	9.663091	
7	3	12	73.6	1029	1999	10.557159	

Table-6 Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)	Hopping Sequence
1	5290	9	1	333	1	5454.0, 5556.0, 5647.0, 5465.0, 5621.0, 5671.0, 5601.0, 5335.0, 5537.0, 5328.0, 5456.0, 5572.0, 5329.0, 5512.0, 5477.0, 5268.0, 5588.0, 5411.0, 5265.0, 5359.0, 5592.0, 5652.0, 5350.0, 5376.0, 5596.0, 5293.0, 5420.0, 5441.0, 5669.0, 5334.0, 5521.0, 5668.0, 5718.0, 5316.0, 5310.0, 5534.0, 5608.0, 5277.0, 5426.0, 5259.0, 5567.0, 5527.0, 5617.0, 5485.0, 5367.0, 5569.0, 5353.0, 5363.0, 5535.0, 5502.0, 5562.0, 5560.0, 5580.0, 5681.0, 5492.0, 5337.0, 5309.0, 5686.0, 5654.0, 5371.0, 5520.0, 5651.0, 5497.0, 5664.0, 5315.0, 5386.0, 5706.0, 5455.0, 5522.0, 5698.0, 5599.0, 5296.0, 5471.0, 5695.0, 5276.0, 5539.0, 5663.0, 5311.0, 5543.0, 5707.0, 5536.0, 5616.0, 5396.0, 5610.0, 5700.0, 5571.0, 5409.0, 5355.0, 5474.0, 5282.0, 5721.0, 5466.0, 5594.0, 5495.0, 5490.0, 5256.0, 5487.0, 5299.0, 5597.0, 5253.0 (number of hits: 17)
2	5290	9	1	333	1	5349.0, 5490.0, 5584.0, 5533.0, 5619.0, 5713.0, 5404.0, 5475.0, 5295.0, 5624.0, 5262.0, 5722.0, 5419.0, 5317.0, 5445.0, 5327.0, 5600.0, 5305.0, 5335.0, 5266.0, 5702.0, 5451.0, 5700.0, 5656.0, 5672.0, 5550.0, 5392.0, 5530.0, 5540.0, 5512.0, 5704.0, 5414.0, 5338.0, 5410.0, 5570.0, 5562.0, 5473.0, 5373.0, 5611.0, 5422.0, 5453.0, 5719.0, 5585.0, 5509.0, 5529.0, 5568.0, 5452.0, 5311.0, 5701.0, 5391.0, 5416.0, 5572.0, 5454.0, 5291.0, 5589.0, 5468.0, 5616.0, 5496.0, 5685.0, 5659.0, 5307.0, 5381.0, 5457.0, 5360.0, 5285.0, 5394.0, 5406.0, 5488.0, 5599.0, 5614.0, 5643.0, 5467.0, 5444.0, 5556.0, 5368.0, 5577.0, 5329.0, 5466.0, 5622.0, 5695.0, 5462.0, 5537.0, 5520.0, 5661.0, 5625.0, 5420.0, 5531.0, 5718.0, 5632.0, 5255.0, 5543.0, 5308.0, 5366.0, 5525.0, 5449.0, 5292.0, 5431.0, 5401.0, 5594.0, 5425.0 (number of hits: 13)
3	5290	9	1	333	1	5267.0, 5594.0, 5370.0, 5603.0, 5528.0, 5260.0, 5359.0, 5322.0, 5478.0, 5649.0, 5509.0, 5699.0, 5443.0, 5385.0, 5252.0, 5310.0, 5325.0, 5329.0, 5255.0, 5471.0, 5347.0, 5311.0, 5474.0, 5640.0, 5273.0, 5485.0, 5374.0, 5331.0, 5435.0, 5521.0, 5296.0, 5634.0, 5544.0, 5346.0, 5524.0, 5574.0, 5569.0, 5683.0, 5375.0, 5431.0, 5577.0, 5635.0, 5338.0, 5343.0, 5623.0, 5624.0, 5510.0, 5451.0, 5437.0, 5442.0, 5304.0, 5601.0, 5480.0, 5527.0, 5254.0,

						5351.0, 5688.0, 5440.0, 5264.0, 5597.0, 5397.0, 5364.0, 5459.0, 5301.0, 5705.0, 5539.0, 5361.0, 5557.0, 5553.0, 5666.0, 5504.0, 5448.0, 5571.0, 5498.0, 5657.0, 5356.0, 5547.0, 5723.0, 5316.0, 5456.0, 5676.0, 5393.0, 5299.0, 5279.0, 5541.0, 5470.0, 5455.0, 5575.0, 5680.0, 5421.0, 5535.0, 5388.0, 5532.0, 5394.0, 5684.0, 5534.0, 5717.0, 5507.0, 5401.0, 5484.0 (number of hits: 17)
4	5290	9	1	333	1	5543.0, 5635.0, 5594.0, 5568.0, 5559.0, 5465.0, 5399.0, 5525.0, 5263.0, 5436.0, 5477.0, 5274.0, 5531.0, 5307.0, 5353.0, 5682.0, 5327.0, 5448.0, 5637.0, 5709.0, 5467.0, 5333.0, 5464.0, 5692.0, 5572.0, 5626.0, 5421.0, 5310.0, 5438.0, 5670.0, 5578.0, 5480.0, 5545.0, 5255.0, 5601.0, 5655.0, 5501.0, 5659.0, 5348.0, 5314.0, 5329.0, 5671.0, 5599.0, 5439.0, 5275.0, 5398.0, 5662.0, 5420.0, 5352.0, 5618.0, 5570.0, 5493.0, 5584.0, 5643.0, 5650.0, 5700.0, 5567.0, 5688.0, 5410.0, 5377.0, 5691.0, 5562.0, 5309.0, 5261.0, 5701.0, 5539.0, 5639.0, 5666.0, 5427.0, 5490.0, 5382.0, 5668.0, 5449.0, 5687.0, 5621.0, 5592.0, 5429.0, 5390.0, 5646.0, 5697.0, 5679.0, 5669.0, 5641.0, 5532.0, 5551.0, 5346.0, 5514.0, 5547.0, 5257.0, 5694.0, 5583.0, 5518.0, 5451.0, 5576.0, 5658.0, 5629.0, 5597.0, 5565.0, 5380.0, 5324.0 (number of hits: 12)
5	5290	9	1	333	1	5551.0, 5477.0, 5284.0, 5436.0, 5296.0, 5484.0, 5535.0, 5652.0, 5298.0, 5251.0, 5407.0, 5590.0, 5404.0, 5681.0, 5455.0, 5308.0, 5546.0, 5406.0, 5647.0, 5685.0, 5540.0, 5345.0, 5287.0, 5646.0, 5382.0, 5411.0, 5370.0, 5434.0, 5402.0, 5377.0, 5672.0, 5596.0, 5493.0, 5594.0, 5512.0, 5297.0, 5467.0, 5495.0, 5388.0, 5488.0, 5496.0, 5690.0, 5664.0, 5627.0, 5447.0, 5334.0, 5548.0, 5400.0, 5662.0, 5294.0, 5346.0, 5543.0, 5325.0, 5314.0, 5526.0, 5461.0, 5291.0, 5279.0, 5266.0, 5300.0, 5347.0, 5518.0, 5456.0, 5440.0, 5642.0, 5457.0, 5383.0, 5274.0, 5674.0, 5442.0, 5445.0, 5694.0, 5269.0, 5507.0, 5443.0, 5708.0, 5353.0, 5514.0, 5709.0, 5513.0, 5394.0, 5549.0, 5494.0, 5502.0, 5673.0, 5257.0, 5481.0, 5466.0, 5450.0, 5476.0, 5423.0, 5413.0, 5256.0, 5589.0, 5280.0, 5654.0, 5316.0, 5689.0, 5516.0, 5335.0 (number of hits: 20)
6	5290	9	1	333	1	5459.0, 5565.0, 5398.0, 5622.0, 5660.0, 5611.0, 5567.0, 5436.0, 5365.0, 5555.0, 5583.0, 5478.0, 5556.0, 5264.0, 5538.0, 5434.0, 5437.0, 5349.0, 5715.0, 5488.0, 5330.0, 5272.0, 5316.0, 5620.0, 5612.0, 5402.0, 5692.0, 5419.0, 5559.0, 5423.0, 5635.0, 5582.0, 5424.0, 5722.0, 5714.0,

						5610.0, 5342.0, 5465.0, 5280.0, 5329.0, 5568.0, 5673.0, 5397.0, 5418.0, 5524.0, 5361.0, 5479.0, 5629.0, 5626.0, 5337.0, 5301.0, 5505.0, 5492.0, 5526.0, 5480.0, 5501.0, 5689.0, 5352.0, 5649.0, 5679.0, 5255.0, 5487.0, 5498.0, 5290.0, 5532.0, 5319.0, 5573.0, 5417.0, 5409.0, 5279.0, 5663.0, 5576.0, 5587.0, 5486.0, 5344.0, 5267.0, 5394.0, 5269.0, 5700.0, 5457.0, 5696.0, 5455.0, 5292.0, 5379.0, 5531.0, 5310.0, 5719.0, 5693.0, 5707.0, 5684.0, 5706.0, 5702.0, 5713.0, 5550.0, 5387.0, 5644.0, 5638.0, 5340.0, 5601.0, 5429.0 (number of hits: 13)
7	5290	9	1	333	1	5636.0, 5424.0, 5336.0, 5499.0, 5590.0, 5679.0, 5430.0, 5444.0, 5464.0, 5403.0, 5500.0, 5577.0, 5608.0, 5532.0, 5678.0, 5703.0, 5689.0, 5473.0, 5317.0, 5393.0, 5714.0, 5433.0, 5415.0, 5619.0, 5372.0, 5537.0, 5279.0, 5384.0, 5394.0, 5366.0, 5383.0, 5612.0, 5277.0, 5263.0, 5301.0, 5544.0, 5688.0, 5453.0, 5607.0, 5630.0, 5564.0, 5697.0, 5477.0, 5653.0, 5399.0, 5273.0, 5594.0, 5377.0, 5280.0, 5309.0, 5515.0, 5452.0, 5448.0, 5575.0, 5308.0, 5681.0, 5485.0, 5627.0, 5603.0, 5576.0, 5493.0, 5583.0, 5253.0, 5713.0, 5378.0, 5365.0, 5475.0, 5426.0, 5602.0, 5380.0, 5541.0, 5296.0, 5633.0, 5412.0, 5609.0, 5645.0, 5514.0, 5676.0, 5483.0, 5293.0, 5669.0, 5547.0, 5479.0, 5295.0, 5442.0, 5623.0, 5559.0, 5510.0, 5461.0, 5385.0, 5330.0, 5478.0, 5362.0, 5685.0, 5251.0, 5457.0, 5350.0, 5406.0, 5699.0, 5613.0 (number of hits: 14)
8	5290	9	1	333	1	5494.0, 5549.0, 5493.0, 5383.0, 5706.0, 5699.0, 5442.0, 5609.0, 5333.0, 5566.0, 5492.0, 5569.0, 5664.0, 5528.0, 5515.0, 5369.0, 5626.0, 5615.0, 5394.0, 5386.0, 5547.0, 5651.0, 5575.0, 5437.0, 5336.0, 5326.0, 5357.0, 5526.0, 5443.0, 5282.0, 5251.0, 5516.0, 5415.0, 5686.0, 5356.0, 5391.0, 5355.0, 5525.0, 5659.0, 5393.0, 5614.0, 5697.0, 5428.0, 5410.0, 5721.0, 5601.0, 5508.0, 5463.0, 5395.0, 5449.0, 5502.0, 5300.0, 5563.0, 5471.0, 5617.0, 5273.0, 5660.0, 5643.0, 5487.0, 5390.0, 5424.0, 5690.0, 5377.0, 5666.0, 5335.0, 5305.0, 5719.0, 5702.0, 5420.0, 5600.0, 5256.0, 5498.0, 5396.0, 5302.0, 5522.0, 5306.0, 5284.0, 5554.0, 5324.0, 5347.0, 5459.0, 5435.0, 5565.0, 5308.0, 5375.0, 5641.0, 5604.0, 5669.0, 5720.0, 5656.0, 5265.0, 5673.0, 5262.0, 5710.0, 5318.0, 5427.0, 5632.0, 5331.0, 5268.0, 5362.0 (number of hits: 16)
9	5290	9	1	333	1	5697.0, 5257.0, 5522.0, 5643.0, 5694.0, 5518.0, 5658.0, 5621.0, 5410.0, 5527.0, 5302.0, 5600.0, 5317.0, 5349.0, 5469.0,

						5517.0, 5509.0, 5521.0, 5261.0, 5329.0, 5634.0, 5304.0, 5345.0, 5681.0, 5679.0, 5468.0, 5525.0, 5703.0, 5404.0, 5389.0, 5341.0, 5412.0, 5465.0, 5326.0, 5433.0, 5251.0, 5425.0, 5450.0, 5394.0, 5618.0, 5340.0, 5495.0, 5382.0, 5574.0, 5281.0, 5411.0, 5487.0, 5320.0, 5712.0, 5543.0, 5259.0, 5420.0, 5593.0, 5677.0, 5477.0, 5380.0, 5393.0, 5533.0, 5260.0, 5275.0, 5546.0, 5343.0, 5470.0, 5686.0, 5524.0, 5674.0, 5316.0, 5624.0, 5395.0, 5405.0, 5314.0, 5698.0, 5682.0, 5288.0, 5284.0, 5456.0, 5331.0, 5255.0, 5635.0, 5363.0, 5339.0, 5318.0, 5548.0, 5659.0, 5583.0, 5647.0, 5273.0, 5457.0, 5286.0, 5309.0, 5441.0, 5294.0, 5323.0, 5654.0, 5406.0, 5386.0, 5491.0, 5636.0, 5442.0, 5602.0 (number of hits: 23)
10	5290	9	1	333	1	5348.0, 5504.0, 5534.0, 5632.0, 5381.0, 5447.0, 5592.0, 5319.0, 5335.0, 5255.0, 5503.0, 5516.0, 5677.0, 5331.0, 5615.0, 5723.0, 5446.0, 5318.0, 5556.0, 5720.0, 5714.0, 5382.0, 5326.0, 5465.0, 5415.0, 5554.0, 5485.0, 5343.0, 5298.0, 5579.0, 5444.0, 5541.0, 5292.0, 5562.0, 5593.0, 5419.0, 5542.0, 5568.0, 5252.0, 5605.0, 5527.0, 5631.0, 5536.0, 5685.0, 5471.0, 5614.0, 5378.0, 5299.0, 5300.0, 5591.0, 5598.0, 5660.0, 5602.0, 5279.0, 5678.0, 5339.0, 5487.0, 5264.0, 5258.0, 5414.0, 5716.0, 5293.0, 5402.0, 5563.0, 5359.0, 5399.0, 5496.0, 5497.0, 5492.0, 5657.0, 5266.0, 5647.0, 5349.0, 5646.0, 5405.0, 5484.0, 5697.0, 5588.0, 5379.0, 5582.0, 5320.0, 5459.0, 5287.0, 5522.0, 5479.0, 5538.0, 5665.0, 5463.0, 5435.0, 5604.0, 5372.0, 5573.0, 5525.0, 5374.0, 5380.0, 5268.0, 5315.0, 5596.0, 5626.0, 5475.0 (number of hits: 18)
11	5290	9	1	333	1	5295.0, 5447.0, 5570.0, 5362.0, 5321.0, 5340.0, 5335.0, 5519.0, 5484.0, 5632.0, 5354.0, 5649.0, 5483.0, 5327.0, 5393.0, 5439.0, 5267.0, 5635.0, 5651.0, 5513.0, 5255.0, 5250.0, 5478.0, 5304.0, 5576.0, 5337.0, 5553.0, 5693.0, 5522.0, 5664.0, 5585.0, 5459.0, 5385.0, 5684.0, 5521.0, 5637.0, 5263.0, 5293.0, 5410.0, 5274.0, 5487.0, 5511.0, 5437.0, 5330.0, 5300.0, 5451.0, 5372.0, 5595.0, 5429.0, 5671.0, 5342.0, 5593.0, 5397.0, 5449.0, 5611.0, 5403.0, 5474.0, 5310.0, 5351.0, 5313.0, 5350.0, 5652.0, 5707.0, 5290.0, 5561.0, 5261.0, 5324.0, 5574.0, 5722.0, 5567.0, 5280.0, 5653.0, 5264.0, 5704.0, 5714.0, 5720.0, 5305.0, 5370.0, 5724.0, 5285.0, 5306.0, 5638.0, 5386.0, 5540.0, 5694.0, 5526.0, 5366.0, 5314.0, 5563.0, 5636.0, 5517.0, 5334.0, 5259.0, 5663.0, 5454.0, 5496.0, 5475.0, 5422.0, 5610.0, 5450.0

						(number of hits: 22)
12	5290	9	1	333	1	5387.0, 5457.0, 5459.0, 5458.0, 5494.0, 5505.0, 5669.0, 5577.0, 5519.0, 5636.0, 5606.0, 5668.0, 5641.0, 5428.0, 5258.0, 5584.0, 5714.0, 5486.0, 5297.0, 5619.0, 5612.0, 5561.0, 5572.0, 5704.0, 5692.0, 5348.0, 5646.0, 5340.0, 5515.0, 5454.0, 5339.0, 5680.0, 5599.0, 5467.0, 5521.0, 5548.0, 5322.0, 5633.0, 5490.0, 5265.0, 5354.0, 5640.0, 5502.0, 5334.0, 5718.0, 5667.0, 5713.0, 5403.0, 5437.0, 5608.0, 5511.0, 5688.0, 5663.0, 5255.0, 5653.0, 5466.0, 5659.0, 5676.0, 5526.0, 5293.0, 5662.0, 5700.0, 5509.0, 5673.0, 5316.0, 5411.0, 5610.0, 5618.0, 5287.0, 5324.0, 5342.0, 5630.0, 5499.0, 5358.0, 5276.0, 5299.0, 5292.0, 5517.0, 5529.0, 5419.0, 5350.0, 5337.0, 5567.0, 5484.0, 5506.0, 5482.0, 5532.0, 5602.0, 5464.0, 5645.0, 5551.0, 5399.0, 5655.0, 5516.0, 5635.0, 5394.0, 5397.0, 5377.0, 5291.0, 5440.0 (number of hits: 13)
13	5290	9	1	333	1	5382.0, 5313.0, 5305.0, 5509.0, 5700.0, 5289.0, 5579.0, 5722.0, 5517.0, 5587.0, 5617.0, 5659.0, 5270.0, 5502.0, 5495.0, 5575.0, 5454.0, 5443.0, 5568.0, 5651.0, 5262.0, 5462.0, 5490.0, 5533.0, 5500.0, 5353.0, 5673.0, 5399.0, 5416.0, 5683.0, 5510.0, 5518.0, 5271.0, 5420.0, 5385.0, 5546.0, 5330.0, 5508.0, 5461.0, 5391.0, 5423.0, 5278.0, 5501.0, 5567.0, 5661.0, 5634.0, 5691.0, 5260.0, 5356.0, 5252.0, 5327.0, 5642.0, 5329.0, 5701.0, 5519.0, 5479.0, 5426.0, 5491.0, 5321.0, 5672.0, 5411.0, 5652.0, 5645.0, 5584.0, 5649.0, 5504.0, 5257.0, 5298.0, 5678.0, 5534.0, 5604.0, 5699.0, 5669.0, 5538.0, 5323.0, 5648.0, 5482.0, 5681.0, 5316.0, 5607.0, 5377.0, 5473.0, 5436.0, 5456.0, 5301.0, 5476.0, 5320.0, 5688.0, 5670.0, 5627.0, 5662.0, 5653.0, 5628.0, 5255.0, 5452.0, 5392.0, 5723.0, 5339.0, 5621.0, 5363.0 (number of hits: 18)
14	5290	9	1	333	1	5717.0, 5609.0, 5359.0, 5440.0, 5626.0, 5722.0, 5607.0, 5339.0, 5530.0, 5444.0, 5481.0, 5651.0, 5316.0, 5506.0, 5427.0, 5511.0, 5696.0, 5624.0, 5529.0, 5531.0, 5415.0, 5711.0, 5699.0, 5625.0, 5344.0, 5472.0, 5430.0, 5496.0, 5707.0, 5357.0, 5269.0, 5276.0, 5510.0, 5366.0, 5263.0, 5581.0, 5367.0, 5352.0, 5463.0, 5447.0, 5541.0, 5715.0, 5349.0, 5469.0, 5404.0, 5500.0, 5507.0, 5259.0, 5578.0, 5544.0, 5550.0, 5382.0, 5568.0, 5332.0, 5409.0, 5570.0, 5688.0, 5562.0, 5508.0, 5652.0, 5289.0, 5336.0, 5414.0, 5648.0, 5687.0, 5556.0, 5412.0, 5594.0, 5402.0, 5633.0, 5334.0, 5536.0, 5338.0, 5272.0, 5599.0, 5347.0, 5534.0, 5563.0, 5543.0, 5343.0,

						5388.0, 5333.0, 5442.0, 5611.0, 5428.0, 5458.0, 5582.0, 5695.0, 5345.0, 5547.0, 5281.0, 5282.0, 5471.0, 5677.0, 5520.0, 5283.0, 5670.0, 5656.0, 5301.0, 5468.0 (number of hits: 11)
15	5290	9	1	333	1	5275.0, 5664.0, 5497.0, 5412.0, 5265.0, 5420.0, 5419.0, 5307.0, 5304.0, 5439.0, 5297.0, 5323.0, 5474.0, 5638.0, 5628.0, 5264.0, 5599.0, 5502.0, 5545.0, 5679.0, 5600.0, 5282.0, 5375.0, 5655.0, 5580.0, 5354.0, 5402.0, 5383.0, 5363.0, 5583.0, 5633.0, 5346.0, 5565.0, 5328.0, 5708.0, 5351.0, 5516.0, 5262.0, 5496.0, 5558.0, 5300.0, 5268.0, 5720.0, 5548.0, 5355.0, 5278.0, 5608.0, 5724.0, 5416.0, 5581.0, 5554.0, 5281.0, 5690.0, 5511.0, 5494.0, 5626.0, 5482.0, 5261.0, 5595.0, 5546.0, 5332.0, 5520.0, 5493.0, 5365.0, 5710.0, 5677.0, 5656.0, 5381.0, 5563.0, 5276.0, 5699.0, 5267.0, 5480.0, 5368.0, 5289.0, 5639.0, 5260.0, 5559.0, 5369.0, 5427.0, 5433.0, 5250.0, 5366.0, 5292.0, 5440.0, 5347.0, 5650.0, 5253.0, 5343.0, 5533.0, 5573.0, 5370.0, 5570.0, 5680.0, 5519.0, 5517.0, 5405.0, 5303.0, 5721.0, 5579.0 (number of hits: 22)
16	5290	9	1	333	1	5340.0, 5679.0, 5263.0, 5342.0, 5471.0, 5437.0, 5422.0, 5251.0, 5368.0, 5720.0, 5620.0, 5693.0, 5651.0, 5702.0, 5465.0, 5656.0, 5475.0, 5383.0, 5297.0, 5678.0, 5429.0, 5348.0, 5601.0, 5345.0, 5279.0, 5545.0, 5337.0, 5639.0, 5538.0, 5622.0, 5585.0, 5582.0, 5664.0, 5344.0, 5648.0, 5665.0, 5291.0, 5436.0, 5633.0, 5523.0, 5505.0, 5516.0, 5431.0, 5629.0, 5357.0, 5563.0, 5402.0, 5570.0, 5421.0, 5305.0, 5689.0, 5460.0, 5586.0, 5287.0, 5406.0, 5470.0, 5687.0, 5587.0, 5597.0, 5527.0, 5680.0, 5314.0, 5531.0, 5723.0, 5276.0, 5606.0, 5504.0, 5485.0, 5576.0, 5449.0, 5590.0, 5577.0, 5559.0, 5482.0, 5329.0, 5392.0, 5593.0, 5361.0, 5658.0, 5400.0, 5696.0, 5451.0, 5298.0, 5385.0, 5618.0, 5480.0, 5544.0, 5301.0, 5555.0, 5289.0, 5583.0, 5304.0, 5386.0, 5323.0, 5558.0, 5529.0, 5420.0, 5540.0, 5259.0, 5376.0 (number of hits: 15)
17	5290	9	1	333	1	5452.0, 5715.0, 5328.0, 5539.0, 5375.0, 5382.0, 5488.0, 5466.0, 5556.0, 5364.0, 5693.0, 5481.0, 5257.0, 5653.0, 5585.0, 5526.0, 5388.0, 5445.0, 5251.0, 5446.0, 5521.0, 5414.0, 5660.0, 5420.0, 5549.0, 5635.0, 5516.0, 5428.0, 5588.0, 5650.0, 5437.0, 5301.0, 5530.0, 5263.0, 5564.0, 5397.0, 5696.0, 5701.0, 5491.0, 5292.0, 5714.0, 5333.0, 5617.0, 5591.0, 5315.0, 5615.0, 5659.0, 5512.0, 5532.0, 5465.0, 5361.0, 5423.0, 5602.0, 5268.0, 5421.0, 5607.0, 5634.0, 5374.0, 5256.0, 5612.0,

						5356.0, 5595.0, 5290.0, 5643.0, 5401.0, 5332.0, 5392.0, 5472.0, 5698.0, 5571.0, 5570.0, 5459.0, 5686.0, 5351.0, 5284.0, 5638.0, 5666.0, 5345.0, 5700.0, 5468.0, 5308.0, 5533.0, 5358.0, 5260.0, 5408.0, 5439.0, 5678.0, 5460.0, 5483.0, 5542.0, 5371.0, 5399.0, 5327.0, 5496.0, 5711.0, 5614.0, 5555.0, 5285.0, 5474.0, 5319.0 (number of hits: 16)
18	5290	9	1	333	1	5648.0, 5343.0, 5527.0, 5335.0, 5672.0, 5409.0, 5714.0, 5706.0, 5459.0, 5389.0, 5283.0, 5646.0, 5367.0, 5293.0, 5608.0, 5644.0, 5363.0, 5351.0, 5415.0, 5662.0, 5664.0, 5497.0, 5277.0, 5705.0, 5438.0, 5491.0, 5307.0, 5643.0, 5289.0, 5311.0, 5397.0, 5492.0, 5446.0, 5425.0, 5469.0, 5507.0, 5259.0, 5352.0, 5655.0, 5316.0, 5533.0, 5623.0, 5416.0, 5559.0, 5420.0, 5488.0, 5588.0, 5280.0, 5542.0, 5414.0, 5498.0, 5319.0, 5269.0, 5610.0, 5346.0, 5379.0, 5656.0, 5426.0, 5687.0, 5373.0, 5639.0, 5402.0, 5647.0, 5263.0, 5297.0, 5264.0, 5326.0, 5432.0, 5304.0, 5383.0, 5512.0, 5371.0, 5441.0, 5320.0, 5430.0, 5638.0, 5689.0, 5555.0, 5619.0, 5276.0, 5628.0, 5476.0, 5369.0, 5697.0, 5261.0, 5337.0, 5567.0, 5255.0, 5251.0, 5302.0, 5657.0, 5450.0, 5627.0, 5457.0, 5454.0, 5587.0, 5560.0, 5511.0, 5568.0, 5267.0 (number of hits: 23)
19	5290	9	1	333	1	5563.0, 5628.0, 5312.0, 5607.0, 5608.0, 5432.0, 5673.0, 5268.0, 5606.0, 5484.0, 5392.0, 5602.0, 5284.0, 5499.0, 5596.0, 5326.0, 5614.0, 5675.0, 5466.0, 5597.0, 5421.0, 5643.0, 5406.0, 5262.0, 5313.0, 5393.0, 5290.0, 5258.0, 5344.0, 5687.0, 5650.0, 5578.0, 5511.0, 5711.0, 5548.0, 5482.0, 5311.0, 5569.0, 5519.0, 5371.0, 5365.0, 5307.0, 5604.0, 5446.0, 5510.0, 5701.0, 5320.0, 5437.0, 5404.0, 5414.0, 5658.0, 5329.0, 5696.0, 5539.0, 5483.0, 5659.0, 5683.0, 5524.0, 5565.0, 5560.0, 5318.0, 5622.0, 5544.0, 5642.0, 5529.0, 5535.0, 5712.0, 5355.0, 5716.0, 5458.0, 5367.0, 5369.0, 5332.0, 5501.0, 5301.0, 5400.0, 5678.0, 5695.0, 5407.0, 5456.0, 5691.0, 5396.0, 5542.0, 5559.0, 5357.0, 5555.0, 5288.0, 5279.0, 5405.0, 5275.0, 5663.0, 5541.0, 5616.0, 5379.0, 5394.0, 5549.0, 5308.0, 5719.0, 5636.0, 5667.0 (number of hits: 17)
20	5290	9	1	333	1	5469.0, 5347.0, 5705.0, 5592.0, 5584.0, 5480.0, 5334.0, 5529.0, 5492.0, 5559.0, 5328.0, 5606.0, 5723.0, 5547.0, 5525.0, 5563.0, 5375.0, 5428.0, 5277.0, 5420.0, 5500.0, 5279.0, 5613.0, 5591.0, 5323.0, 5641.0, 5454.0, 5574.0, 5540.0, 5656.0, 5722.0, 5616.0, 5355.0, 5331.0, 5294.0, 5556.0, 5361.0, 5655.0, 5275.0, 5438.0,

						5396.0, 5618.0, 5489.0, 5668.0, 5687.0, 5643.0, 5560.0, 5509.0, 5386.0, 5535.0, 5646.0, 5474.0, 5459.0, 5546.0, 5382.0, 5449.0, 5657.0, 5288.0, 5654.0, 5608.0, 5293.0, 5318.0, 5353.0, 5271.0, 5415.0, 5698.0, 5374.0, 5417.0, 5586.0, 5520.0, 5383.0, 5518.0, 5427.0, 5536.0, 5549.0, 5457.0, 5527.0, 5333.0, 5697.0, 5497.0, 5650.0, 5694.0, 5585.0, 5393.0, 5494.0, 5627.0, 5695.0, 5268.0, 5297.0, 5360.0, 5493.0, 5472.0, 5388.0, 5569.0, 5511.0, 5716.0, 5442.0, 5370.0, 5345.0, 5411.0 (number of hits: 12)
21	5290	9	1	333	1	5613.0, 5716.0, 5606.0, 5313.0, 5524.0, 5364.0, 5418.0, 5544.0, 5434.0, 5412.0, 5714.0, 5542.0, 5273.0, 5628.0, 5351.0, 5361.0, 5677.0, 5575.0, 5576.0, 5336.0, 5391.0, 5664.0, 5538.0, 5267.0, 5528.0, 5604.0, 5269.0, 5392.0, 5294.0, 5257.0, 5381.0, 5648.0, 5489.0, 5719.0, 5675.0, 5531.0, 5690.0, 5532.0, 5683.0, 5567.0, 5518.0, 5667.0, 5475.0, 5653.0, 5339.0, 5614.0, 5481.0, 5290.0, 5586.0, 5609.0, 5270.0, 5588.0, 5672.0, 5476.0, 5426.0, 5350.0, 5501.0, 5710.0, 5599.0, 5598.0, 5465.0, 5472.0, 5284.0, 5255.0, 5706.0, 5661.0, 5406.0, 5650.0, 5631.0, 5607.0, 5674.0, 5386.0, 5509.0, 5471.0, 5527.0, 5671.0, 5601.0, 5659.0, 5673.0, 5479.0, 5315.0, 5564.0, 5584.0, 5286.0, 5316.0, 5365.0, 5325.0, 5354.0, 5320.0, 5385.0, 5723.0, 5367.0, 5328.0, 5317.0, 5437.0, 5259.0, 5633.0, 5304.0, 5665.0, 5348.0 (number of hits: 19)
22	5290	9	1	333	1	5500.0, 5398.0, 5436.0, 5584.0, 5715.0, 5328.0, 5515.0, 5605.0, 5399.0, 5311.0, 5391.0, 5400.0, 5275.0, 5389.0, 5682.0, 5498.0, 5303.0, 5541.0, 5582.0, 5401.0, 5637.0, 5324.0, 5470.0, 5538.0, 5469.0, 5488.0, 5433.0, 5297.0, 5312.0, 5467.0, 5422.0, 5711.0, 5370.0, 5570.0, 5419.0, 5284.0, 5547.0, 5573.0, 5430.0, 5382.0, 5684.0, 5663.0, 5322.0, 5485.0, 5654.0, 5367.0, 5710.0, 5650.0, 5621.0, 5553.0, 5334.0, 5701.0, 5530.0, 5555.0, 5429.0, 5315.0, 5292.0, 5263.0, 5364.0, 5344.0, 5462.0, 5478.0, 5366.0, 5492.0, 5308.0, 5383.0, 5717.0, 5397.0, 5638.0, 5534.0, 5418.0, 5427.0, 5353.0, 5659.0, 5269.0, 5268.0, 5693.0, 5415.0, 5414.0, 5446.0, 5616.0, 5438.0, 5339.0, 5286.0, 5551.0, 5589.0, 5291.0, 5622.0, 5283.0, 5723.0, 5494.0, 5666.0, 5388.0, 5532.0, 5457.0, 5518.0, 5506.0, 5475.0, 5326.0, 5502.0 (number of hits: 19)
23	5290	9	1	333	1	5497.0, 5722.0, 5664.0, 5631.0, 5476.0, 5412.0, 5606.0, 5255.0, 5530.0, 5669.0, 5690.0, 5586.0, 5421.0, 5495.0, 5501.0, 5666.0, 5487.0, 5583.0, 5595.0, 5694.0,

						5395.0, 5582.0, 5640.0, 5562.0, 5280.0, 5300.0, 5687.0, 5478.0, 5335.0, 5256.0, 5407.0, 5523.0, 5515.0, 5538.0, 5360.0, 5541.0, 5277.0, 5573.0, 5622.0, 5505.0, 5337.0, 5593.0, 5489.0, 5430.0, 5689.0, 5294.0, 5723.0, 5577.0, 5646.0, 5424.0, 5609.0, 5654.0, 5413.0, 5454.0, 5355.0, 5601.0, 5405.0, 5380.0, 5696.0, 5719.0, 5704.0, 5286.0, 5336.0, 5313.0, 5503.0, 5642.0, 5291.0, 5369.0, 5715.0, 5339.0, 5451.0, 5401.0, 5469.0, 5671.0, 5281.0, 5432.0, 5514.0, 5318.0, 5325.0, 5293.0, 5661.0, 5563.0, 5453.0, 5364.0, 5361.0, 5302.0, 5684.0, 5250.0, 5301.0, 5550.0, 5285.0, 5391.0, 5327.0, 5422.0, 5693.0, 5584.0, 5491.0, 5352.0, 5507.0, 5617.0 (number of hits: 17)
24	5290	9	1	333	1	5305.0, 5462.0, 5425.0, 5451.0, 5361.0, 5422.0, 5631.0, 5716.0, 5393.0, 5339.0, 5469.0, 5441.0, 5691.0, 5642.0, 5350.0, 5481.0, 5460.0, 5606.0, 5619.0, 5420.0, 5624.0, 5641.0, 5356.0, 5444.0, 5658.0, 5615.0, 5366.0, 5327.0, 5423.0, 5508.0, 5673.0, 5377.0, 5262.0, 5391.0, 5358.0, 5394.0, 5331.0, 5579.0, 5574.0, 5507.0, 5546.0, 5290.0, 5278.0, 5345.0, 5583.0, 5380.0, 5645.0, 5455.0, 5640.0, 5274.0, 5301.0, 5520.0, 5502.0, 5392.0, 5428.0, 5368.0, 5403.0, 5560.0, 5670.0, 5597.0, 5635.0, 5512.0, 5610.0, 5588.0, 5638.0, 5656.0, 5260.0, 5555.0, 5308.0, 5715.0, 5644.0, 5367.0, 5668.0, 5302.0, 5479.0, 5427.0, 5654.0, 5412.0, 5711.0, 5689.0, 5677.0, 5598.0, 5664.0, 5282.0, 5399.0, 5442.0, 5326.0, 5611.0, 5697.0, 5639.0, 5563.0, 5717.0, 5251.0, 5581.0, 5284.0, 5363.0, 5409.0, 5496.0, 5464.0, 5532.0 (number of hits: 14)
25	5290	9	1	333	1	5461.0, 5268.0, 5528.0, 5493.0, 5672.0, 5647.0, 5695.0, 5487.0, 5388.0, 5649.0, 5604.0, 5399.0, 5326.0, 5439.0, 5397.0, 5265.0, 5337.0, 5716.0, 5531.0, 5638.0, 5262.0, 5302.0, 5339.0, 5252.0, 5674.0, 5282.0, 5271.0, 5719.0, 5696.0, 5467.0, 5550.0, 5491.0, 5389.0, 5408.0, 5372.0, 5431.0, 5626.0, 5437.0, 5475.0, 5664.0, 5652.0, 5344.0, 5624.0, 5477.0, 5614.0, 5492.0, 5572.0, 5392.0, 5482.0, 5592.0, 5629.0, 5513.0, 5548.0, 5481.0, 5605.0, 5580.0, 5570.0, 5341.0, 5398.0, 5391.0, 5434.0, 5506.0, 5354.0, 5299.0, 5277.0, 5520.0, 5396.0, 5508.0, 5617.0, 5333.0, 5525.0, 5403.0, 5331.0, 5623.0, 5633.0, 5441.0, 5289.0, 5679.0, 5539.0, 5500.0, 5254.0, 5462.0, 5258.0, 5440.0, 5438.0, 5368.0, 5723.0, 5593.0, 5468.0, 5329.0, 5445.0, 5293.0, 5371.0, 5657.0, 5526.0, 5303.0, 5644.0, 5270.0, 5304.0, 5567.0 (number of hits: 17)

26	5290	9	1	333	1	5462.0, 5295.0, 5415.0, 5675.0, 5460.0, 5723.0, 5454.0, 5285.0, 5653.0, 5555.0, 5577.0, 5290.0, 5581.0, 5585.0, 5721.0, 5327.0, 5539.0, 5663.0, 5724.0, 5413.0, 5294.0, 5473.0, 5493.0, 5407.0, 5389.0, 5540.0, 5385.0, 5369.0, 5402.0, 5625.0, 5628.0, 5502.0, 5466.0, 5491.0, 5343.0, 5394.0, 5644.0, 5448.0, 5519.0, 5642.0, 5680.0, 5506.0, 5505.0, 5259.0, 5331.0, 5479.0, 5293.0, 5359.0, 5508.0, 5656.0, 5365.0, 5615.0, 5552.0, 5371.0, 5561.0, 5275.0, 5457.0, 5592.0, 5610.0, 5382.0, 5368.0, 5574.0, 5332.0, 5257.0, 5427.0, 5521.0, 5320.0, 5476.0, 5682.0, 5485.0, 5302.0, 5580.0, 5373.0, 5547.0, 5541.0, 5529.0, 5381.0, 5271.0, 5635.0, 5426.0, 5515.0, 5375.0, 5643.0, 5283.0, 5679.0, 5307.0, 5542.0, 5627.0, 5718.0, 5273.0, 5430.0, 5700.0, 5492.0, 5594.0, 5321.0, 5701.0, 5509.0, 5543.0, 5639.0, 5471.0 (number of hits: 16)
27	5290	9	1	333	1	5297.0, 5619.0, 5301.0, 5695.0, 5371.0, 5365.0, 5641.0, 5279.0, 5368.0, 5348.0, 5469.0, 5416.0, 5550.0, 5277.0, 5456.0, 5389.0, 5689.0, 5424.0, 5652.0, 5336.0, 5637.0, 5395.0, 5569.0, 5613.0, 5681.0, 5402.0, 5532.0, 5580.0, 5407.0, 5694.0, 5282.0, 5459.0, 5467.0, 5643.0, 5589.0, 5686.0, 5647.0, 5328.0, 5526.0, 5633.0, 5595.0, 5472.0, 5552.0, 5377.0, 5291.0, 5513.0, 5327.0, 5255.0, 5519.0, 5554.0, 5430.0, 5607.0, 5690.0, 5400.0, 5604.0, 5294.0, 5674.0, 5566.0, 5567.0, 5356.0, 5401.0, 5468.0, 5379.0, 5458.0, 5426.0, 5265.0, 5432.0, 5355.0, 5425.0, 5618.0, 5710.0, 5645.0, 5262.0, 5692.0, 5503.0, 5257.0, 5313.0, 5529.0, 5675.0, 5678.0, 5338.0, 5676.0, 5287.0, 5354.0, 5615.0, 5381.0, 5640.0, 5288.0, 5341.0, 5330.0, 5397.0, 5337.0, 5499.0, 5285.0, 5673.0, 5668.0, 5671.0, 5611.0, 5591.0, 5481.0 (number of hits: 17)
28	5290	9	1	333	1	5554.0, 5499.0, 5319.0, 5621.0, 5685.0, 5480.0, 5462.0, 5470.0, 5435.0, 5364.0, 5566.0, 5357.0, 5337.0, 5661.0, 5698.0, 5658.0, 5650.0, 5585.0, 5648.0, 5723.0, 5427.0, 5707.0, 5412.0, 5415.0, 5534.0, 5697.0, 5292.0, 5443.0, 5718.0, 5537.0, 5457.0, 5366.0, 5635.0, 5352.0, 5666.0, 5582.0, 5688.0, 5627.0, 5411.0, 5542.0, 5300.0, 5474.0, 5278.0, 5410.0, 5274.0, 5520.0, 5498.0, 5402.0, 5344.0, 5629.0, 5689.0, 5323.0, 5367.0, 5622.0, 5327.0, 5623.0, 5505.0, 5403.0, 5606.0, 5478.0, 5320.0, 5492.0, 5334.0, 5662.0, 5270.0, 5569.0, 5539.0, 5271.0, 5592.0, 5686.0, 5473.0, 5514.0, 5489.0, 5670.0, 5373.0, 5523.0, 5276.0, 5510.0, 5259.0, 5482.0, 5289.0, 5296.0, 5487.0, 5283.0, 5694.0,

						5389.0, 5636.0, 5265.0, 5398.0, 5286.0, 5644.0, 5260.0, 5485.0, 5540.0, 5396.0, 5475.0, 5452.0, 5637.0, 5607.0, 5302.0 (number of hits: 19)
29	5290	9	1	333	1	5525.0, 5622.0, 5429.0, 5590.0, 5362.0, 5444.0, 5512.0, 5399.0, 5287.0, 5614.0, 5397.0, 5718.0, 5693.0, 5299.0, 5706.0, 5638.0, 5705.0, 5501.0, 5431.0, 5400.0, 5635.0, 5601.0, 5536.0, 5548.0, 5685.0, 5708.0, 5339.0, 5324.0, 5262.0, 5646.0, 5605.0, 5648.0, 5326.0, 5371.0, 5617.0, 5482.0, 5684.0, 5679.0, 5465.0, 5251.0, 5581.0, 5681.0, 5318.0, 5660.0, 5340.0, 5561.0, 5704.0, 5515.0, 5407.0, 5664.0, 5556.0, 5674.0, 5363.0, 5672.0, 5522.0, 5487.0, 5663.0, 5395.0, 5272.0, 5659.0, 5250.0, 5715.0, 5290.0, 5439.0, 5469.0, 5658.0, 5485.0, 5546.0, 5440.0, 5427.0, 5327.0, 5448.0, 5670.0, 5599.0, 5328.0, 5255.0, 5578.0, 5618.0, 5524.0, 5446.0, 5253.0, 5373.0, 5514.0, 5528.0, 5557.0, 5645.0, 5323.0, 5697.0, 5488.0, 5632.0, 5612.0, 5302.0, 5576.0, 5604.0, 5529.0, 5390.0, 5579.0, 5308.0, 5329.0, 5460.0 (number of hits: 16)
30	5290	9	1	333	1	5366.0, 5523.0, 5715.0, 5642.0, 5697.0, 5429.0, 5276.0, 5324.0, 5431.0, 5683.0, 5536.0, 5500.0, 5616.0, 5407.0, 5417.0, 5275.0, 5341.0, 5314.0, 5575.0, 5353.0, 5720.0, 5268.0, 5270.0, 5302.0, 5359.0, 5716.0, 5348.0, 5586.0, 5609.0, 5619.0, 5506.0, 5253.0, 5630.0, 5655.0, 5585.0, 5559.0, 5632.0, 5295.0, 5714.0, 5551.0, 5550.0, 5490.0, 5485.0, 5477.0, 5464.0, 5457.0, 5651.0, 5272.0, 5319.0, 5522.0, 5380.0, 5672.0, 5339.0, 5514.0, 5660.0, 5374.0, 5584.0, 5273.0, 5622.0, 5664.0, 5722.0, 5340.0, 5582.0, 5640.0, 5426.0, 5705.0, 5455.0, 5418.0, 5261.0, 5563.0, 5711.0, 5579.0, 5284.0, 5293.0, 5435.0, 5724.0, 5663.0, 5379.0, 5545.0, 5362.0, 5292.0, 5468.0, 5542.0, 5532.0, 5267.0, 5562.0, 5643.0, 5298.0, 5648.0, 5600.0, 5623.0, 5694.0, 5401.0, 5454.0, 5385.0, 5576.0, 5597.0, 5328.0, 5595.0, 5482.0 (number of hits: 19)

5520 MHz, 20 MHz Bandwidth

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1A/1B	30	100 %	60%	Pass
Type 2	30	100 %	60%	Pass
Type 3	30	100 %	60%	Pass
Type 4	30	100 %	60%	Pass
Aggregate (Type1 to 4)	120	100 %	80%	Pass
Type 5	30	96.67 %	80%	Pass
Type 6	30	100 %	70%	Pass

Please refer to the following statistical tables:

5520 MHz, 20 MHz Bandwidth

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

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5520	89	1	598	1
2	5520	76	1	698	1
3	5520	81	1	658	1
4	5520	61	1	878	1
5	5520	67	1	798	1
6	5520	95	1	558	1
7	5520	72	1	738	1
8	5520	63	1	838	1
9	5520	70	1	758	1
10	5520	59	1	898	1
11	5520	62	1	858	1
12	5520	57	1	938	1
13	5520	86	1	618	1
14	5520	58	1	918	1
15	5520	83	1	638	1
16	5520	55	1	961	1
17	5520	79	1	674	1
18	5520	24	1	2200	1
19	5520	27	1	2003	1
20	5520	42	1	1272	1
21	5520	35	1	1513	1
22	5520	89	1	596	1
23	5520	22	1	2508	1
24	5520	31	1	1716	1
25	5520	30	1	1805	1
26	5520	47	1	1130	1
27	5520	24	1	2279	1
28	5520	75	1	711	1
29	5520	26	1	2088	1
30	5520	26	1	2048	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	5520	24	3.5	203	1
2	5520	24	1.2	209	1
3	5520	25	4.4	184	1
4	5520	29	3	192	1
5	5520	26	2.7	186	1
6	5520	23	2.9	226	1
7	5520	29	1.9	211	1
8	5520	28	1.8	205	1
9	5520	28	3.6	175	1
10	5520	28	1.4	190	1
11	5520	25	3.7	195	1
12	5520	27	4.5	183	1
13	5520	27	1.5	194	1
14	5520	25	1.5	210	1
15	5520	28	2.3	216	1
16	5520	23	4.3	188	1
17	5520	28	2.1	185	1
18	5520	24	4.6	173	1
19	5520	26	2.8	155	1
20	5520	25	3.4	217	1
21	5520	24	2.9	226	1
22	5520	29	4.4	153	1
23	5520	25	4.7	166	1
24	5520	29	1.8	154	1
25	5520	29	4	162	1
26	5520	27	3.3	228	1
27	5520	28	2.5	230	1
28	5520	25	5	156	1
29	5520	27	2	222	1
30	5520	28	3.1	191	1
Detection Percentage: 100 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5520	17	7.4	221	1
2	5520	18	8.5	408	1
3	5520	17	9.3	324	1
4	5520	18	8.1	430	1
5	5520	17	9.2	277	1
6	5520	16	9.9	233	1
7	5520	18	8.9	485	1
8	5520	18	6.3	431	1
9	5520	17	7.1	235	1
10	5520	18	7.7	478	1
11	5520	16	7.6	466	1
12	5520	17	6.4	345	1
13	5520	18	9.2	477	1
14	5520	18	8.7	456	1
15	5520	16	6.4	461	1
16	5520	17	9.2	462	1
17	5520	18	6.2	337	1
18	5520	18	7	353	1
19	5520	18	7.5	301	1
20	5520	18	7.7	485	1
21	5520	16	7.1	399	1
22	5520	18	9.5	336	1
23	5520	17	8.4	252	1
24	5520	18	9.9	220	1
25	5520	18	7.8	382	1
26	5520	18	6.1	295	1
27	5520	16	10	261	1
28	5520	16	7.9	387	1
29	5520	16	6	259	1
30	5520	18	7.2	246	1
Detection Percentage: 100 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5520	15	11.4	272	1
2	5520	15	18.3	398	1
3	5520	13	18.7	264	1
4	5520	16	13	262	1
5	5520	16	19	273	1
6	5520	13	15.3	212	1
7	5520	16	11.2	373	1
8	5520	12	15.2	257	1
9	5520	15	14.4	491	1
10	5520	13	19.9	274	1
11	5520	16	17.8	468	1
12	5520	13	14.8	382	1
13	5520	13	18	488	1
14	5520	16	15.1	436	1
15	5520	12	17.3	478	1
16	5520	14	12.5	433	1
17	5520	16	11.8	491	1
18	5520	13	17.3	347	1
19	5520	14	12.4	428	1
20	5520	12	12	500	1
21	5520	14	12	404	1
22	5520	16	13.3	279	1
23	5520	12	19.2	462	1
24	5520	12	19.5	271	1
25	5520	16	15	463	1
26	5520	16	17.6	462	1
27	5520	15	15.4	209	1
28	5520	14	12	307	1
29	5520	16	17.2	343	1
30	5520	14	13.8	483	1
Detection Percentage: 100 % (>60%)					

Table-5 Radar Type 5 Statistical Performance

Trial #	Fc (MHz)	Detection (1:yes; 0:no)
1	5520	1
2	5520	1
3	5520	1
4	5520	1
5	5520	1
6	5520	1
7	5520	1
8	5520	1
9	5520	1
10	5520	1
11	5514.6	1
12	5515.0	1
13	5515.4	1
14	5513.8	1
15	5516.2	1
16	5514.6	1
17	5517.4	0
18	5514.6	1
19	5514.6	1
20	5513.4	1
21	5525.8	1
22	5523.4	1
23	5525.0	1
24	5521.8	1
25	5523.4	1
26	5527.0	1
27	5521.8	1
28	5523.4	1
29	5526.6	1
30	5524.2	1
Detection Percentage: 96.67 % (>80%)		

Bin5 Statistics 1

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	13	59.9	1512		0.029692	1
1	2	13	60.8	1209		1.045683	
2	1	13	94.3			1.905842	
3	1	13	75.8			2.322772	
4	2	13	64.8	1515		3.622704	
5	2	13	82.7	1268		4.261793	
6	1	13	91.8			4.987684	
7	2	13	99.8	1923		5.653224	
8	3	13	65.3	1793	1373	6.467884	
9	2	13	62.7	1261		7.04163	
10	2	13	95	1324		8.107089	
11	2	13	82.3	1963		8.271572	
12	2	13	71.2	1327		9.298991	
13	1	13	87.3			10.295231	
14	3	13	74.7	1689	1711	10.602998	
15	2	13	83.9	1403		11.316116	

Bin5 Statistics 2

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	11	78.8	1361		0.453806	1
1	3	11	70.6	1454	1486	1.123499	
2	3	11	91.1	1626	1519	2.239056	
3	2	11	86.7	1408		3.651055	
4	1	11	51			4.225721	
5	2	11	67.2	1311		4.652753	
6	2	11	86.4	1697		5.886438	
7	2	11	89.2	1227		6.71966	
8	2	11	84.6	1011		7.917406	
9	2	11	53.2	1479		8.444306	
10	3	11	97.5	1192	1977	9.472787	
11	1	11	61.2			10.671569	
12	1	11	87.2			11.564392	

Bin5 Statistics 3

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	10	57.5			0.359091	1
1	2	10	99.7	1722		1.361382	
2	2	10	62.3	1934		1.855542	
3	2	10	85.7	1980		3.04429	
4	2	10	71.3	1318		3.727487	
5	2	10	69.7	1170		4.856398	
6	2	10	50.1	1217		5.825469	
7	2	10	68.8	1325		6.434084	
8	2	10	83.8	1973		6.975436	
9	2	10	57	2000		8.091023	
10	3	10	73.8	1614	1701	8.853662	
11	1	10	98.8			10.224098	
12	2	10	59.8	1262		11.088781	
13	2	10	68.4	1715		11.3978	

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	13	55.4	1785		0.018563	1
1	1	13	50.5			1.267556	
2	2	13	88	1401		1.737305	
3	2	13	86.1	1909		2.657781	
4	1	13	87.9			3.76167	
5	2	13	69.9	1311		5.123892	
6	1	13	96			5.373533	
7	2	13	52.8	1760		6.052706	
8	3	13	96	1668	1130	7.257869	
9	2	13	78.6	1823		8.497379	
10	2	13	86.7	1014		8.833843	
11	2	13	54.8	1177		9.772243	
12	1	13	66.6			11.050031	
13	2	13	67.8	1919		11.389027	

Bin5 Statistics 5

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	12	90.7	1971	1304	0.873919	
1	2	12	95.9	1032		2.068082	
2	3	12	94.7	1603	1750	2.940525	
3	2	12	97.4	1406		3.65997	
4	3	12	58.2	1023	1787	4.613465	
5	2	12	56.2	1884		5.90472	1
6	3	12	73.7	1890	1160	6.78946	
7	2	12	51.7	1107		8.631037	
8	2	12	85.1	1592		9.114898	
9	3	12	67.8	1068	1285	10.212042	
10	2	12	83.9	1470		11.314735	

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	10	83.4	1887		0.26117	
1	2	10	65.9	1583		0.96251	
2	2	10	91	1679		2.39127	
3	3	10	94.4	1565	1154	3.06537	
4	1	10	60.1			3.962746	
5	3	10	81.8	1274	1798	4.679157	
6	1	10	79.3			5.049384	
7	2	10	81.1	1791		6.293117	1
8	1	10	91.3			6.86625	
9	3	10	73.9	1635	1194	7.499276	
10	2	10	61.6	1709		8.04145	
11	1	10	91			8.853272	
12	2	10	68.9	1919		9.769098	
13	3	10	82.4	1232	1674	10.640621	
14	2	10	54.6	1608		11.93386	

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	9	76.4			0.665837	
1	2	9	63.8	1830		0.925184	
2	2	9	81.8	1581		1.920989	
3	3	9	57	1119	1482	2.24007	
4	2	9	50.3	1874		2.955173	
5	3	9	98.5	1845	1057	4.019219	
6	2	9	83.2	1937		4.617078	
7	2	9	81.4	1558		5.56636	
8	1	9	60.2			5.832793	1
9	3	9	96.6	1498	1057	6.758543	
10	3	9	62.4	1105	1550	7.673644	
11	2	9	83.5	1292		8.100453	
12	3	9	62.2	1136	1688	8.950083	
13	2	9	83.6	1450		9.691695	
14	1	9	65.5			9.940201	
15	1	9	56.6			11.144424	
16	2	9	80.1	1069		11.456755	

Bin5 Statistics 8

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	11	79.3	1856		0.008722	1
1	2	11	67.9	1051		0.876409	
2	3	11	50.1	1473	1394	1.951002	
3	3	11	64.4	1989	1622	2.183734	
4	1	11	86.5			2.711828	
5	1	11	62.8			3.737929	
6	1	11	62.1			4.490238	
7	1	11	77.2			5.247037	
8	2	11	91.9	1768		5.829525	
9	1	11	90.1			6.550701	
10	2	11	52.9	1195		6.6918	
11	2	11	91.6	1069		7.552726	
12	1	11	52.7			8.380449	
13	2	11	52.8	1562		9.220314	
14	3	11	53.6	1595	1334	9.89974	
15	2	11	78.2	1547		10.296223	
16	3	11	54.2	1898	1499	11.192563	
17	2	11	68.2	1461		11.768173	

Bin5 Statistics 9

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	9	89.7	1568		0.092482	1
1	3	9	50.5	1144	1255	1.115057	
2	2	9	73.2	1240		2.40378	
3	2	9	95.6	1528		3.692635	
4	1	9	68.4			4.524168	
5	2	9	53.9	1453		5.481221	
6	2	9	77.7	1235		6.689274	
7	1	9	90.4			7.34158	
8	3	9	58.3	1141	1345	8.581266	
9	1	9	69.1			9.956977	
10	2	9	81.5	1697		10.152155	
11	2	9	89.6	1173		11.963136	

Bin5 Statistics 10

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	9	84			0.405155	1
1	3	9	80.7	1151	1739	0.760682	
2	3	9	86.4	1319	1479	2.016601	
3	2	9	57.1	1478		2.57233	
4	3	9	51	1473	1837	2.939671	
5	3	9	91	1652	1696	4.068977	
6	1	9	83			4.598975	
7	2	9	59.9	1096		5.554272	
8	2	9	98.1	1835		5.814951	
9	3	9	97	1644	1104	6.601232	
10	2	9	79.5	1653		7.705622	
11	2	9	87.2	1380		8.233011	
12	3	9	87.5	1693	1697	8.714244	
13	2	9	80	1771		9.486103	
14	2	9	69	1101		10.269734	
15	2	9	83.3	1874		10.627965	
16	2	9	50.1	1210		11.437639	

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	9	66.3	1247		0.202747	1
1	2	9	63.1	1344		1.294429	
2	3	9	62.4	1548	1066	1.943563	
3	1	9	89.6			2.379421	
4	3	9	85.6	1441	1544	2.978431	
5	2	9	55.2	1556		3.837702	
6	1	9	86.6			4.383188	
7	3	9	83.9	1873	1259	5.215994	
8	1	9	61.6			5.573255	
9	3	9	78.4	1093	1846	6.476344	
10	1	9	79.2			6.723184	
11	3	9	92.5	1441	1384	7.702422	
12	2	9	56.5	1549		8.571391	
13	2	9	83.5	1282		9.064896	
14	1	9	87.6			9.531793	
15	2	9	50	1073		10.56415	
16	2	9	98.6	1966		11.181669	
17	2	9	70.1	1200		11.443934	

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	10	89.5	1694		1.471115	1
1	3	10	79.5	1504	1968	1.678041	
2	2	10	99.9	1866		3.858225	
3	3	10	74.4	1355	1828	5.096036	
4	1	10	76.8			7.328137	
5	2	10	71.5	1701		7.950648	
6	2	10	94.1	1484		9.994182	
7	1	10	62.2			10.879637	

Bin5 Statistics 13

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	11	62.2	1177		0.78524	1
1	3	11	68.9	1362	1684	0.899246	
2	2	11	79	1264		2.299604	
3	3	11	67.7	1055	1759	3.065411	
4	2	11	89.6	1620		3.778642	
5	2	11	60.8	1945		5.053636	
6	2	11	73.6	1555		5.503431	
7	1	11	61.5			6.107649	
8	2	11	66	1337		6.861698	
9	2	11	72.2	1102		8.28142	
10	3	11	61.1	1892	1682	8.872143	
11	2	11	99.4	1908		10.270217	
12	2	11	68	1901		10.296933	
13	2	11	88.5	1113		11.611947	

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	7	76.7	1449	1574	1.061169	1
1	1	7	52			1.753596	
2	3	7	59.4	1959	1039	3.982148	
3	1	7	98.4			5.421207	
4	1	7	91.9			6.133011	
5	3	7	72.3	1972	1952	7.590886	
6	1	7	56.8			9.812572	
7	1	7	66.1			11.847515	

Bin5 Statistics 15

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	13	65.9			0.484717	
1	1	13	82.5			1.282921	
2	2	13	62.2	1179		1.811875	
3	1	13	56.3			2.722032	
4	3	13	55.1	1590	1473	2.962282	
5	3	13	93.5	1463	1159	3.842497	
6	3	13	95	1658	1681	4.56826	
7	2	13	62.5	1736		5.10133	
8	2	13	89.1	1261		6.033777	1
9	2	13	75.2	1410		6.464329	
10	2	13	60.8	1067		7.387444	
11	1	13	68.8			8.395853	
12	2	13	84.4	1253		8.521213	
13	1	13	86.8			9.350435	
14	1	13	98.9			10.088347	
15	2	13	92.6	1224		11.242412	
16	1	13	76.4			11.342166	

Bin5 Statistics 16

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	9	92.5			0.653344	
1	2	9	54	1376		1.481391	
2	2	9	87.1	1989		1.611282	
3	1	9	79.3			2.62248	
4	1	9	58.6			3.575366	
5	2	9	74.8	1818		4.395815	
6	2	9	67.8	1806		5.325249	
7	3	9	92	1788	1696	6.27817	1
8	2	9	83.3	1204		6.404268	
9	1	9	88.6			7.800643	
10	2	9	97.6	1858		8.56302	
11	1	9	58.7			8.978537	
12	3	9	67.8	1246	1686	10.062854	
13	2	9	51.9	1041		10.932281	
14	2	9	61.4	1195		11.909397	

Bin5 Statistics 17

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	16	52.2			0.207179	0
1	2	16	97.4	1862		1.088778	
2	1	16	65.9			1.378047	
3	2	16	87.6	1904		2.457443	
4	3	16	54.3	1698	1637	3.265806	
5	2	16	65.4	1621		3.831852	
6	3	16	80.1	1855	1076	4.490433	
7	1	16	63.2			4.813915	
8	1	16	54.2			5.455035	
9	1	16	78.9			6.199641	
10	2	16	60.8	1177		7.003163	
11	2	16	68.4	1602		7.652695	
12	1	16	97.6			8.055801	
13	3	16	86.7	1073	1864	8.726992	
14	2	16	72.9	1654		9.348536	
15	2	16	76.6	1566		10.071044	
16	1	16	96.7			10.975353	
17	1	16	55.6			11.46765	

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	51	1063		0.444665	1
1	2	9	51.5	1236		1.976407	
2	2	9	70.4	1025		2.729095	
3	2	9	88.1	1346		3.051431	
4	2	9	87.1	1865		4.703751	
5	2	9	82.5	1971		5.473392	
6	3	9	68.3	1273	1531	6.712766	
7	3	9	61.9	1729	1277	7.869989	
8	2	9	92.5	1438		8.712441	
9	1	9	57.7			9.094294	
10	1	9	99.3			10.162383	
11	2	9	89.4	1572		11.034748	

Bin5 Statistics 19

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	9	59.6	1642		0.152624	1
1	2	9	81.8	1984		1.190568	
2	1	9	50.2			1.508206	
3	3	9	82.1	1666	1235	2.344179	
4	3	9	55.8	1171	1603	3.100324	
5	3	9	62	1666	1451	3.793856	
6	3	9	63.7	1412	1606	4.93794	
7	2	9	96.9	1651		5.518405	
8	3	9	80.6	1132	1928	6.001557	
9	1	9	79.6			6.958496	
10	1	9	82.2			8.123992	
11	2	9	64	1624		8.853478	
12	2	9	65.5	1072		9.4612	
13	3	9	60.2	1418	1278	10.371543	
14	2	9	96.9	1539		11.012827	
15	3	9	60.2	1312	1108	11.902942	

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	6	93.2	1436	1394	0.218338	1
1	2	6	50.8	1088		1.499128	
2	2	6	58.5	1838		2.61073	
3	2	6	69	1048		3.085547	
4	1	6	83.8			3.697546	
5	2	6	97.6	1276		5.526359	
6	2	6	73.9	1394		6.056919	
7	2	6	56.5	1949		7.348533	
8	3	6	58.4	1955	1905	8.102033	
9	2	6	78	1780		8.537477	
10	3	6	86.6	1145	1994	9.748337	
11	3	6	78.2	1250	1920	10.504617	
12	2	6	93.4	1607		11.565441	

Bin5 Statistics 21

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	8	84.7			0.680211	
1	2	8	85.4	1208		1.492964	
2	1	8	77.2			2.982092	
3	2	8	97.4	1293		4.128539	
4	1	8	83.3			5.443958	1
5	2	8	94.5	1707		7.846201	
6	3	8	99.5	1985	1659	8.648819	
7	1	8	65.3			10.658565	
8	3	8	52.3	1196	1550	10.927804	

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	14	99.3			0.339059	
1	2	14	84.1	1315		1.186391	
2	2	14	86.7	1570		1.626025	
3	2	14	53.3	1340		2.437558	
4	1	14	77			3.498912	
5	1	14	61.6			4.176899	
6	2	14	61.9	1572		5.072573	
7	2	14	82.9	1828		5.49746	
8	2	14	96.4	1597		6.186666	1
9	3	14	76.3	1996	1772	6.995585	
10	1	14	62.3			7.74614	
11	2	14	70.3	1216		8.385553	
12	2	14	88.3	1600		9.168369	
13	2	14	92.4	1317		10.335112	
14	2	14	90.1	1678		10.903678	
15	3	14	86.2	1460	1769	11.750817	

Bin5 Statistics 23

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	10	65.7			0.177783	1
1	2	10	66	1222		0.686842	
2	2	10	68.7	1509		1.706358	
3	1	10	74.4			2.198071	
4	3	10	87.8	1493	1640	2.798727	
5	1	10	92.2			3.960925	
6	2	10	75.9	1756		4.141649	
7	2	10	56	1004		4.908199	
8	2	10	85	1904		5.563773	
9	2	10	67.7	1516		6.463777	
10	2	10	89.2	1138		7.196428	
11	2	10	65.2	1210		7.900495	
12	2	10	75.5	1106		8.456537	
13	1	10	76.3			8.955612	
14	2	10	75.4	1942		9.826796	
15	2	10	94.6	1568		10.562669	
16	2	10	95.7	1191		11.192899	
17	1	10	100			11.571141	

Bin5 Statistics 24

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	18	95.4	1315	1296	0.124116	1
1	2	18	79.9	1876		1.441892	
2	2	18	88.8	1707		2.11454	
3	2	18	90.4	1792		2.970392	
4	1	18	75.5			4.215214	
5	1	18	79.6			4.735438	
6	3	18	69.4	1532	1565	5.476929	
7	1	18	61			6.784573	
8	1	18	55.4			6.980443	
9	3	18	97.1	1995	1317	8.305525	
10	2	18	74.6	1438		9.363554	
11	1	18	65.6			9.810393	
12	3	18	92.7	1908	1114	10.531405	
13	2	18	76.7	1433		11.610597	

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	14	78.8	1760		0.693238	
1	2	14	80.3	1277		1.655471	
2	1	14	52.1			2.575859	
3	2	14	83.1	1171		3.560347	
4	3	14	72.7	1247	1486	3.995787	
5	1	14	58.4			4.688515	
6	2	14	71.9	1866		5.734781	1
7	1	14	98.4			7.363069	
8	2	14	51.7	1663		7.447123	
9	2	14	87.8	1127		9.051457	
10	1	14	64.5			9.434644	
11	3	14	98.3	1067	1234	10.473644	
12	2	14	81.3	1640		11.610839	

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	5	66.9	1888	1482	0.037718	
1	2	5	94.7	1603		1.435686	
2	1	5	66.1			2.48056	
3	1	5	95.6			3.98268	
4	2	5	92.2	1867		4.295457	
5	3	5	51.7	1618	1721	5.803166	
6	1	5	57.3			6.101554	1
7	1	5	83.3			7.230757	
8	2	5	56.9	1219		8.324757	
9	2	5	59.5	1532		9.748544	
10	2	5	92.1	1121		10.701067	
11	1	5	92.3			11.080237	

Bin5 Statistics 27

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	18	77.3	1892	1218	0.849628	1
1	1	18	76.6			2.078395	
2	3	18	90.5	1758	1811	2.976222	
3	2	18	74.3	1076		3.681346	
4	2	18	72.3	1121		5.045259	
5	1	18	98.9			6.815191	
6	2	18	93.4	1123		8.263815	
7	2	18	83.8	1320		8.722244	
8	3	18	50.6	1616	1098	9.800847	
9	3	18	65.6	1094	1456	11.709736	

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	14	57.7			0.660962	1
1	1	14	57.2			1.151316	
2	2	14	77.8	1561		2.328548	
3	1	14	60.8			3.210832	
4	2	14	92	1770		4.064953	
5	3	14	86.2	1021	1432	5.655036	
6	1	14	62.5			6.594343	
7	2	14	69.4	1171		7.238468	
8	2	14	99.1	1094		8.578945	
9	2	14	74.9	1894		9.976073	
10	3	14	69.1	1272	1938	10.504575	
11	3	14	66.2	1573	1842	11.0696	

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	6	97.5	1397		0.640326	
1	1	6	50.5			0.822105	
2	2	6	79.8	1467		1.416503	
3	3	6	93.2	1628	1838	2.580416	
4	3	6	53.8	1281	1755	3.214655	
5	2	6	83.3	1095		3.850302	
6	2	6	57	1726		4.583805	
7	1	6	83.1			5.091266	
8	2	6	98.3	1554		6.12017	1
9	2	6	53.3	1454		6.977547	
10	3	6	84.2	1155	1602	7.166379	
11	2	6	97.3	1915		8.356206	
12	3	6	58.1	1263	1339	9.112462	
13	3	6	75.9	1940	1554	9.267302	
14	1	6	75.6			10.408124	
15	2	6	96.6	1468		11.015886	
16	2	6	71.5	1302		11.303318	

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	12	90.6	1532	1917	0.584658	
1	3	12	64.5	1928	1748	1.449584	
2	2	12	88.2	1304		3.932449	
3	2	12	59.6	1631		4.670735	
4	3	12	68.3	1644	1422	6.38402	1
5	2	12	83.5	1207		7.517108	
6	2	12	51.5	1028		8.898033	
7	2	12	50.4	1680		9.589543	
8	1	12	94.7			11.961031	

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	5520	9	1	333	1	5653.0, 5652.0, 5577.0, 5542.0, 5602.0, 5355.0, 5635.0, 5312.0, 5453.0, 5641.0, 5285.0, 5346.0, 5446.0, 5377.0, 5679.0, 5279.0, 5486.0, 5492.0, 5670.0, 5628.0, 5412.0, 5490.0, 5655.0, 5433.0, 5529.0, 5472.0, 5362.0, 5469.0, 5611.0, 5371.0, 5666.0, 5586.0, 5291.0, 5284.0, 5350.0, 5677.0, 5356.0, 5722.0, 5525.0, 5514.0, 5604.0, 5373.0, 5335.0, 5365.0, 5259.0, 5603.0, 5326.0, 5347.0, 5455.0, 5351.0, 5393.0, 5584.0, 5499.0, 5442.0, 5576.0, 5711.0, 5567.0, 5481.0, 5585.0, 5700.0, 5477.0, 5646.0, 5392.0, 5476.0, 5614.0, 5627.0, 5708.0, 5354.0, 5713.0, 5485.0, 5329.0, 5520.0, 5528.0, 5417.0, 5553.0, 5510.0, 5508.0, 5465.0, 5449.0, 5596.0, 5422.0, 5527.0, 5308.0, 5695.0, 5419.0, 5452.0, 5396.0, 5681.0, 5402.0, 5657.0, 5521.0, 5386.0, 5302.0, 5360.0, 5484.0, 5689.0, 5698.0, 5559.0, 5662.0, 5340.0 (number of hits: 6)
2	5520	9	1	333	1	5532.0, 5295.0, 5362.0, 5512.0, 5460.0, 5571.0, 5630.0, 5716.0, 5412.0, 5616.0, 5282.0, 5425.0, 5620.0, 5577.0, 5419.0, 5682.0, 5370.0, 5590.0, 5410.0, 5428.0, 5623.0, 5261.0, 5604.0, 5302.0, 5378.0, 5299.0, 5319.0, 5654.0, 5594.0, 5653.0, 5585.0, 5606.0, 5471.0, 5655.0, 5434.0, 5431.0, 5402.0, 5397.0, 5674.0, 5551.0, 5566.0, 5380.0, 5445.0, 5292.0, 5343.0, 5274.0, 5533.0, 5368.0, 5286.0, 5255.0, 5688.0, 5382.0, 5331.0, 5644.0, 5257.0, 5309.0, 5527.0, 5645.0, 5628.0, 5575.0, 5517.0, 5652.0, 5626.0, 5675.0, 5365.0, 5572.0, 5278.0, 5703.0, 5385.0, 5544.0, 5270.0, 5327.0, 5263.0, 5705.0, 5371.0, 5374.0, 5413.0, 5573.0, 5461.0, 5352.0, 5487.0, 5306.0, 5484.0, 5528.0, 5252.0, 5297.0, 5622.0, 5637.0, 5436.0, 5695.0, 5345.0, 5552.0, 5567.0, 5304.0, 5311.0, 5293.0, 5638.0, 5301.0, 5324.0, 5289.0 (number of hits: 4)
3	5520	9	1	333	1	5274.0, 5359.0, 5315.0, 5624.0, 5373.0, 5416.0, 5561.0, 5637.0, 5273.0, 5707.0, 5279.0, 5490.0, 5557.0, 5517.0, 5723.0, 5410.0, 5322.0, 5262.0, 5641.0, 5329.0, 5362.0, 5650.0, 5678.0, 5519.0, 5256.0, 5529.0, 5566.0, 5504.0, 5713.0, 5398.0, 5646.0, 5424.0, 5402.0, 5263.0, 5384.0, 5446.0, 5371.0, 5540.0, 5505.0, 5441.0, 5316.0, 5660.0, 5599.0, 5271.0, 5370.0, 5706.0, 5257.0, 5625.0, 5471.0, 5458.0, 5436.0, 5311.0, 5547.0, 5400.0, 5613.0,

						5669.0, 5283.0, 5585.0, 5690.0, 5511.0, 5542.0, 5451.0, 5550.0, 5270.0, 5681.0, 5386.0, 5582.0, 5588.0, 5328.0, 5619.0, 5642.0, 5554.0, 5409.0, 5323.0, 5671.0, 5512.0, 5414.0, 5552.0, 5528.0, 5331.0, 5390.0, 5288.0, 5293.0, 5297.0, 5466.0, 5345.0, 5597.0, 5648.0, 5586.0, 5467.0, 5612.0, 5468.0, 5556.0, 5391.0, 5607.0, 5367.0, 5545.0, 5639.0, 5276.0, 5691.0 (number of hits: 5)
4	5520	9	1	333	1	5516.0, 5718.0, 5300.0, 5529.0, 5508.0, 5602.0, 5292.0, 5407.0, 5350.0, 5578.0, 5482.0, 5628.0, 5367.0, 5681.0, 5411.0, 5450.0, 5702.0, 5492.0, 5575.0, 5373.0, 5547.0, 5372.0, 5565.0, 5597.0, 5686.0, 5711.0, 5309.0, 5363.0, 5515.0, 5354.0, 5360.0, 5252.0, 5581.0, 5507.0, 5403.0, 5467.0, 5381.0, 5639.0, 5555.0, 5632.0, 5554.0, 5661.0, 5643.0, 5678.0, 5549.0, 5518.0, 5483.0, 5376.0, 5573.0, 5322.0, 5670.0, 5509.0, 5631.0, 5717.0, 5416.0, 5422.0, 5615.0, 5606.0, 5677.0, 5589.0, 5298.0, 5510.0, 5425.0, 5291.0, 5550.0, 5301.0, 5339.0, 5455.0, 5495.0, 5397.0, 5436.0, 5695.0, 5305.0, 5264.0, 5627.0, 5580.0, 5288.0, 5445.0, 5613.0, 5685.0, 5616.0, 5464.0, 5454.0, 5259.0, 5567.0, 5321.0, 5652.0, 5637.0, 5667.0, 5604.0, 5588.0, 5342.0, 5327.0, 5419.0, 5409.0, 5696.0, 5341.0, 5722.0, 5344.0, 5430.0 (number of hits: 3)
5	5520	9	1	333	1	5571.0, 5547.0, 5562.0, 5575.0, 5489.0, 5383.0, 5287.0, 5679.0, 5517.0, 5382.0, 5457.0, 5602.0, 5554.0, 5277.0, 5595.0, 5707.0, 5564.0, 5400.0, 5648.0, 5611.0, 5332.0, 5409.0, 5681.0, 5706.0, 5604.0, 5319.0, 5633.0, 5536.0, 5434.0, 5589.0, 5327.0, 5415.0, 5684.0, 5613.0, 5476.0, 5440.0, 5546.0, 5456.0, 5685.0, 5576.0, 5306.0, 5411.0, 5251.0, 5443.0, 5335.0, 5505.0, 5537.0, 5696.0, 5593.0, 5427.0, 5614.0, 5494.0, 5256.0, 5304.0, 5462.0, 5423.0, 5459.0, 5455.0, 5694.0, 5404.0, 5381.0, 5687.0, 5301.0, 5268.0, 5570.0, 5307.0, 5340.0, 5320.0, 5467.0, 5378.0, 5370.0, 5469.0, 5266.0, 5437.0, 5530.0, 5376.0, 5704.0, 5688.0, 5630.0, 5333.0, 5425.0, 5610.0, 5591.0, 5622.0, 5347.0, 5388.0, 5439.0, 5416.0, 5392.0, 5445.0, 5508.0, 5326.0, 5617.0, 5499.0, 5261.0, 5723.0, 5401.0, 5569.0, 5368.0, 5480.0 (number of hits: 1)
6	5520	9	1	333	1	5535.0, 5628.0, 5516.0, 5623.0, 5544.0, 5673.0, 5720.0, 5718.0, 5310.0, 5683.0, 5504.0, 5666.0, 5257.0, 5391.0, 5261.0, 5605.0, 5298.0, 5702.0, 5492.0, 5658.0, 5508.0, 5699.0, 5330.0, 5619.0, 5660.0, 5645.0, 5602.0, 5480.0, 5610.0, 5411.0, 5458.0, 5284.0, 5651.0, 5663.0, 5542.0,

						5409.0, 5489.0, 5523.0, 5530.0, 5517.0, 5442.0, 5299.0, 5531.0, 5454.0, 5363.0, 5353.0, 5609.0, 5364.0, 5378.0, 5380.0, 5652.0, 5534.0, 5455.0, 5441.0, 5685.0, 5551.0, 5471.0, 5697.0, 5498.0, 5327.0, 5400.0, 5631.0, 5520.0, 5337.0, 5421.0, 5570.0, 5338.0, 5684.0, 5700.0, 5260.0, 5370.0, 5333.0, 5722.0, 5538.0, 5548.0, 5359.0, 5593.0, 5282.0, 5529.0, 5565.0, 5554.0, 5426.0, 5346.0, 5559.0, 5447.0, 5351.0, 5314.0, 5502.0, 5499.0, 5343.0, 5687.0, 5279.0, 5546.0, 5522.0, 5383.0, 5321.0, 5661.0, 5328.0, 5306.0, 5636.0 (number of hits: 5)
7	5520	9	1	333	1	5622.0, 5657.0, 5279.0, 5468.0, 5433.0, 5272.0, 5547.0, 5374.0, 5308.0, 5632.0, 5319.0, 5398.0, 5268.0, 5394.0, 5574.0, 5445.0, 5684.0, 5717.0, 5669.0, 5330.0, 5307.0, 5392.0, 5533.0, 5517.0, 5403.0, 5428.0, 5288.0, 5600.0, 5258.0, 5577.0, 5628.0, 5446.0, 5612.0, 5506.0, 5647.0, 5582.0, 5365.0, 5570.0, 5601.0, 5348.0, 5512.0, 5672.0, 5653.0, 5293.0, 5696.0, 5520.0, 5440.0, 5652.0, 5265.0, 5351.0, 5519.0, 5665.0, 5250.0, 5363.0, 5277.0, 5525.0, 5675.0, 5513.0, 5317.0, 5586.0, 5597.0, 5664.0, 5497.0, 5599.0, 5400.0, 5441.0, 5281.0, 5395.0, 5716.0, 5637.0, 5397.0, 5466.0, 5535.0, 5668.0, 5720.0, 5614.0, 5584.0, 5639.0, 5401.0, 5421.0, 5616.0, 5487.0, 5602.0, 5564.0, 5537.0, 5527.0, 5485.0, 5504.0, 5491.0, 5629.0, 5681.0, 5673.0, 5511.0, 5606.0, 5571.0, 5461.0, 5507.0, 5691.0, 5343.0, 5273.0 (number of hits: 8)
8	5520	9	1	333	1	5625.0, 5342.0, 5647.0, 5385.0, 5380.0, 5306.0, 5469.0, 5657.0, 5679.0, 5595.0, 5329.0, 5585.0, 5683.0, 5477.0, 5336.0, 5381.0, 5677.0, 5406.0, 5282.0, 5668.0, 5512.0, 5258.0, 5255.0, 5303.0, 5466.0, 5568.0, 5345.0, 5312.0, 5470.0, 5427.0, 5606.0, 5425.0, 5722.0, 5259.0, 5525.0, 5502.0, 5325.0, 5458.0, 5687.0, 5645.0, 5457.0, 5643.0, 5661.0, 5651.0, 5386.0, 5464.0, 5311.0, 5572.0, 5536.0, 5300.0, 5265.0, 5289.0, 5272.0, 5443.0, 5332.0, 5614.0, 5656.0, 5442.0, 5691.0, 5714.0, 5708.0, 5313.0, 5701.0, 5376.0, 5399.0, 5334.0, 5711.0, 5696.0, 5295.0, 5410.0, 5428.0, 5588.0, 5253.0, 5603.0, 5462.0, 5532.0, 5564.0, 5688.0, 5447.0, 5288.0, 5655.0, 5697.0, 5593.0, 5682.0, 5520.0, 5355.0, 5393.0, 5594.0, 5694.0, 5478.0, 5599.0, 5377.0, 5490.0, 5534.0, 5544.0, 5517.0, 5387.0, 5364.0, 5581.0, 5570.0 (number of hits: 4)
9	5520	9	1	333	1	5297.0, 5714.0, 5550.0, 5636.0, 5328.0, 5626.0, 5332.0, 5477.0, 5606.0, 5267.0, 5423.0, 5310.0, 5551.0, 5607.0, 5544.0,

						5721.0, 5499.0, 5456.0, 5376.0, 5579.0, 5507.0, 5589.0, 5430.0, 5571.0, 5671.0, 5353.0, 5399.0, 5640.0, 5484.0, 5434.0, 5599.0, 5358.0, 5713.0, 5382.0, 5722.0, 5309.0, 5539.0, 5290.0, 5268.0, 5542.0, 5348.0, 5311.0, 5427.0, 5273.0, 5575.0, 5421.0, 5618.0, 5637.0, 5326.0, 5405.0, 5359.0, 5573.0, 5621.0, 5462.0, 5354.0, 5706.0, 5628.0, 5592.0, 5433.0, 5265.0, 5724.0, 5536.0, 5262.0, 5516.0, 5624.0, 5306.0, 5289.0, 5324.0, 5458.0, 5526.0, 5441.0, 5363.0, 5533.0, 5256.0, 5627.0, 5255.0, 5596.0, 5388.0, 5344.0, 5601.0, 5674.0, 5407.0, 5612.0, 5347.0, 5384.0, 5345.0, 5493.0, 5678.0, 5652.0, 5602.0, 5715.0, 5316.0, 5514.0, 5279.0, 5341.0, 5435.0, 5489.0, 5459.0, 5343.0, 5504.0 (number of hits: 3)
10	5520	9	1	333	1	5307.0, 5559.0, 5405.0, 5515.0, 5657.0, 5705.0, 5635.0, 5426.0, 5442.0, 5270.0, 5446.0, 5613.0, 5256.0, 5344.0, 5490.0, 5511.0, 5570.0, 5454.0, 5717.0, 5713.0, 5263.0, 5551.0, 5536.0, 5687.0, 5251.0, 5671.0, 5380.0, 5518.0, 5493.0, 5503.0, 5311.0, 5338.0, 5296.0, 5494.0, 5381.0, 5676.0, 5333.0, 5441.0, 5318.0, 5618.0, 5365.0, 5599.0, 5480.0, 5628.0, 5302.0, 5621.0, 5285.0, 5463.0, 5379.0, 5620.0, 5334.0, 5614.0, 5360.0, 5268.0, 5363.0, 5402.0, 5557.0, 5376.0, 5583.0, 5259.0, 5279.0, 5364.0, 5692.0, 5622.0, 5665.0, 5464.0, 5550.0, 5540.0, 5411.0, 5366.0, 5588.0, 5350.0, 5324.0, 5667.0, 5623.0, 5373.0, 5715.0, 5607.0, 5265.0, 5413.0, 5354.0, 5403.0, 5395.0, 5666.0, 5509.0, 5527.0, 5681.0, 5397.0, 5297.0, 5616.0, 5284.0, 5645.0, 5663.0, 5601.0, 5467.0, 5479.0, 5343.0, 5429.0, 5445.0, 5600.0 (number of hits: 4)
11	5520	9	1	333	1	5503.0, 5416.0, 5497.0, 5283.0, 5717.0, 5471.0, 5506.0, 5441.0, 5593.0, 5411.0, 5540.0, 5281.0, 5475.0, 5678.0, 5627.0, 5505.0, 5571.0, 5349.0, 5429.0, 5620.0, 5722.0, 5519.0, 5537.0, 5324.0, 5581.0, 5458.0, 5694.0, 5386.0, 5558.0, 5373.0, 5343.0, 5689.0, 5309.0, 5469.0, 5317.0, 5636.0, 5291.0, 5366.0, 5547.0, 5679.0, 5305.0, 5359.0, 5345.0, 5436.0, 5431.0, 5631.0, 5697.0, 5357.0, 5491.0, 5692.0, 5648.0, 5383.0, 5350.0, 5447.0, 5653.0, 5272.0, 5628.0, 5538.0, 5488.0, 5404.0, 5472.0, 5570.0, 5423.0, 5542.0, 5567.0, 5489.0, 5596.0, 5304.0, 5577.0, 5462.0, 5672.0, 5708.0, 5517.0, 5378.0, 5698.0, 5484.0, 5253.0, 5422.0, 5275.0, 5612.0, 5611.0, 5466.0, 5554.0, 5609.0, 5468.0, 5485.0, 5668.0, 5720.0, 5501.0, 5606.0, 5388.0, 5657.0, 5534.0, 5347.0, 5492.0, 5498.0, 5428.0, 5600.0, 5529.0, 5346.0

						(number of hits: 2)
12	5520	9	1	333	1	5354.0, 5713.0, 5296.0, 5464.0, 5676.0, 5328.0, 5516.0, 5524.0, 5283.0, 5501.0, 5589.0, 5539.0, 5563.0, 5549.0, 5326.0, 5503.0, 5661.0, 5273.0, 5540.0, 5255.0, 5525.0, 5711.0, 5482.0, 5561.0, 5349.0, 5485.0, 5723.0, 5724.0, 5325.0, 5454.0, 5493.0, 5637.0, 5596.0, 5315.0, 5253.0, 5292.0, 5569.0, 5433.0, 5636.0, 5306.0, 5644.0, 5333.0, 5599.0, 5652.0, 5463.0, 5335.0, 5268.0, 5666.0, 5429.0, 5304.0, 5515.0, 5250.0, 5291.0, 5620.0, 5616.0, 5665.0, 5452.0, 5638.0, 5416.0, 5680.0, 5277.0, 5316.0, 5459.0, 5602.0, 5718.0, 5278.0, 5259.0, 5601.0, 5593.0, 5703.0, 5580.0, 5633.0, 5269.0, 5520.0, 5392.0, 5364.0, 5356.0, 5295.0, 5499.0, 5648.0, 5554.0, 5498.0, 5351.0, 5595.0, 5323.0, 5701.0, 5473.0, 5657.0, 5348.0, 5688.0, 5547.0, 5576.0, 5714.0, 5558.0, 5414.0, 5667.0, 5538.0, 5706.0, 5721.0, 5380.0 (number of hits: 5)
13	5520	9	1	333	1	5479.0, 5716.0, 5604.0, 5330.0, 5254.0, 5299.0, 5362.0, 5278.0, 5516.0, 5373.0, 5574.0, 5618.0, 5446.0, 5340.0, 5633.0, 5339.0, 5461.0, 5500.0, 5255.0, 5297.0, 5397.0, 5296.0, 5403.0, 5311.0, 5477.0, 5418.0, 5369.0, 5600.0, 5532.0, 5722.0, 5484.0, 5329.0, 5300.0, 5650.0, 5718.0, 5251.0, 5405.0, 5280.0, 5452.0, 5262.0, 5558.0, 5588.0, 5636.0, 5677.0, 5505.0, 5554.0, 5641.0, 5648.0, 5396.0, 5318.0, 5643.0, 5416.0, 5474.0, 5288.0, 5266.0, 5293.0, 5555.0, 5331.0, 5390.0, 5606.0, 5328.0, 5525.0, 5459.0, 5594.0, 5349.0, 5482.0, 5630.0, 5595.0, 5351.0, 5663.0, 5659.0, 5586.0, 5697.0, 5306.0, 5548.0, 5309.0, 5401.0, 5599.0, 5440.0, 5666.0, 5509.0, 5332.0, 5445.0, 5495.0, 5338.0, 5570.0, 5639.0, 5335.0, 5326.0, 5668.0, 5295.0, 5705.0, 5693.0, 5511.0, 5423.0, 5539.0, 5366.0, 5675.0, 5394.0, 5531.0 (number of hits: 3)
14	5520	9	1	333	1	5321.0, 5568.0, 5398.0, 5464.0, 5694.0, 5319.0, 5323.0, 5507.0, 5543.0, 5275.0, 5605.0, 5722.0, 5608.0, 5286.0, 5263.0, 5697.0, 5683.0, 5387.0, 5587.0, 5338.0, 5641.0, 5656.0, 5704.0, 5306.0, 5513.0, 5277.0, 5544.0, 5582.0, 5488.0, 5630.0, 5565.0, 5369.0, 5326.0, 5380.0, 5525.0, 5721.0, 5317.0, 5252.0, 5622.0, 5404.0, 5545.0, 5517.0, 5715.0, 5452.0, 5659.0, 5396.0, 5394.0, 5671.0, 5382.0, 5333.0, 5639.0, 5670.0, 5285.0, 5251.0, 5381.0, 5521.0, 5469.0, 5315.0, 5583.0, 5422.0, 5273.0, 5340.0, 5621.0, 5375.0, 5664.0, 5603.0, 5654.0, 5255.0, 5502.0, 5625.0, 5278.0, 5627.0, 5470.0, 5720.0, 5610.0, 5696.0, 5547.0, 5300.0, 5506.0, 5651.0,

						5254.0, 5352.0, 5705.0, 5487.0, 5688.0, 5359.0, 5687.0, 5647.0, 5558.0, 5677.0, 5405.0, 5680.0, 5485.0, 5620.0, 5367.0, 5447.0, 5527.0, 5292.0, 5473.0, 5328.0 (number of hits: 5)
15	5520	9	1	333	1	5585.0, 5550.0, 5695.0, 5497.0, 5285.0, 5677.0, 5421.0, 5662.0, 5686.0, 5608.0, 5281.0, 5639.0, 5463.0, 5538.0, 5661.0, 5533.0, 5658.0, 5355.0, 5700.0, 5646.0, 5614.0, 5575.0, 5449.0, 5660.0, 5363.0, 5707.0, 5641.0, 5434.0, 5473.0, 5521.0, 5368.0, 5362.0, 5295.0, 5600.0, 5278.0, 5652.0, 5444.0, 5571.0, 5439.0, 5454.0, 5513.0, 5619.0, 5465.0, 5342.0, 5453.0, 5628.0, 5352.0, 5647.0, 5590.0, 5250.0, 5683.0, 5624.0, 5300.0, 5566.0, 5722.0, 5601.0, 5649.0, 5271.0, 5635.0, 5697.0, 5663.0, 5633.0, 5493.0, 5667.0, 5582.0, 5393.0, 5258.0, 5366.0, 5613.0, 5400.0, 5284.0, 5361.0, 5717.0, 5402.0, 5290.0, 5385.0, 5692.0, 5564.0, 5637.0, 5470.0, 5344.0, 5708.0, 5511.0, 5496.0, 5354.0, 5573.0, 5321.0, 5655.0, 5380.0, 5467.0, 5338.0, 5297.0, 5554.0, 5688.0, 5543.0, 5333.0, 5341.0, 5693.0, 5417.0, 5580.0 (number of hits: 3)
16	5520	9	1	333	1	5399.0, 5457.0, 5534.0, 5670.0, 5621.0, 5477.0, 5612.0, 5279.0, 5286.0, 5390.0, 5522.0, 5626.0, 5357.0, 5474.0, 5515.0, 5331.0, 5530.0, 5435.0, 5543.0, 5695.0, 5677.0, 5524.0, 5313.0, 5295.0, 5513.0, 5647.0, 5250.0, 5473.0, 5678.0, 5707.0, 5342.0, 5709.0, 5537.0, 5658.0, 5341.0, 5493.0, 5501.0, 5300.0, 5444.0, 5575.0, 5597.0, 5580.0, 5479.0, 5487.0, 5526.0, 5360.0, 5362.0, 5723.0, 5668.0, 5495.0, 5574.0, 5699.0, 5289.0, 5642.0, 5553.0, 5572.0, 5460.0, 5440.0, 5510.0, 5297.0, 5346.0, 5675.0, 5549.0, 5386.0, 5483.0, 5649.0, 5323.0, 5459.0, 5671.0, 5475.0, 5562.0, 5633.0, 5502.0, 5377.0, 5654.0, 5291.0, 5683.0, 5343.0, 5603.0, 5615.0, 5335.0, 5310.0, 5376.0, 5345.0, 5651.0, 5321.0, 5665.0, 5368.0, 5694.0, 5329.0, 5381.0, 5364.0, 5422.0, 5717.0, 5373.0, 5461.0, 5488.0, 5640.0, 5260.0, 5273.0 (number of hits: 5)
17	5520	9	1	333	1	5323.0, 5660.0, 5666.0, 5712.0, 5470.0, 5506.0, 5554.0, 5471.0, 5280.0, 5652.0, 5659.0, 5354.0, 5273.0, 5687.0, 5258.0, 5543.0, 5611.0, 5528.0, 5377.0, 5392.0, 5609.0, 5608.0, 5692.0, 5359.0, 5304.0, 5376.0, 5383.0, 5519.0, 5604.0, 5325.0, 5329.0, 5269.0, 5477.0, 5514.0, 5311.0, 5612.0, 5575.0, 5516.0, 5654.0, 5465.0, 5438.0, 5252.0, 5463.0, 5672.0, 5556.0, 5434.0, 5297.0, 5520.0, 5408.0, 5669.0, 5337.0, 5511.0, 5625.0, 5494.0, 5462.0, 5461.0, 5385.0, 5401.0, 5704.0, 5379.0,

						5378.0, 5423.0, 5717.0, 5433.0, 5503.0, 5420.0, 5455.0, 5358.0, 5504.0, 5715.0, 5531.0, 5316.0, 5335.0, 5443.0, 5632.0, 5348.0, 5429.0, 5428.0, 5263.0, 5332.0, 5367.0, 5521.0, 5505.0, 5619.0, 5492.0, 5639.0, 5588.0, 5631.0, 5394.0, 5402.0, 5665.0, 5562.0, 5703.0, 5653.0, 5380.0, 5569.0, 5271.0, 5647.0, 5661.0, 5448.0 (number of hits: 7)
18	5520	9	1	333	1	5328.0, 5559.0, 5288.0, 5544.0, 5456.0, 5547.0, 5365.0, 5694.0, 5664.0, 5671.0, 5632.0, 5604.0, 5278.0, 5506.0, 5680.0, 5360.0, 5496.0, 5617.0, 5457.0, 5590.0, 5259.0, 5302.0, 5359.0, 5686.0, 5688.0, 5369.0, 5477.0, 5586.0, 5638.0, 5381.0, 5503.0, 5275.0, 5308.0, 5450.0, 5699.0, 5416.0, 5276.0, 5358.0, 5703.0, 5537.0, 5334.0, 5268.0, 5327.0, 5514.0, 5550.0, 5500.0, 5681.0, 5616.0, 5605.0, 5710.0, 5533.0, 5661.0, 5310.0, 5522.0, 5400.0, 5696.0, 5593.0, 5256.0, 5493.0, 5670.0, 5376.0, 5515.0, 5636.0, 5587.0, 5459.0, 5361.0, 5449.0, 5625.0, 5669.0, 5397.0, 5429.0, 5709.0, 5281.0, 5437.0, 5453.0, 5484.0, 5371.0, 5517.0, 5551.0, 5396.0, 5601.0, 5486.0, 5471.0, 5350.0, 5687.0, 5389.0, 5698.0, 5347.0, 5465.0, 5582.0, 5342.0, 5492.0, 5589.0, 5719.0, 5284.0, 5363.0, 5657.0, 5433.0, 5692.0, 5291.0 (number of hits: 4)
19	5520	9	1	333	1	5474.0, 5485.0, 5461.0, 5567.0, 5577.0, 5399.0, 5655.0, 5490.0, 5535.0, 5307.0, 5362.0, 5520.0, 5568.0, 5600.0, 5553.0, 5340.0, 5684.0, 5478.0, 5259.0, 5698.0, 5566.0, 5434.0, 5476.0, 5444.0, 5279.0, 5489.0, 5321.0, 5376.0, 5689.0, 5701.0, 5614.0, 5275.0, 5598.0, 5709.0, 5504.0, 5508.0, 5534.0, 5717.0, 5494.0, 5305.0, 5594.0, 5514.0, 5404.0, 5626.0, 5667.0, 5352.0, 5414.0, 5649.0, 5586.0, 5271.0, 5616.0, 5276.0, 5707.0, 5292.0, 5316.0, 5367.0, 5506.0, 5370.0, 5491.0, 5527.0, 5696.0, 5538.0, 5410.0, 5267.0, 5269.0, 5333.0, 5602.0, 5537.0, 5374.0, 5585.0, 5313.0, 5488.0, 5450.0, 5588.0, 5670.0, 5462.0, 5643.0, 5281.0, 5609.0, 5295.0, 5460.0, 5631.0, 5677.0, 5632.0, 5285.0, 5451.0, 5427.0, 5565.0, 5335.0, 5542.0, 5549.0, 5525.0, 5620.0, 5473.0, 5659.0, 5358.0, 5580.0, 5339.0, 5560.0, 5505.0 (number of hits: 4)
20	5520	9	1	333	1	5685.0, 5257.0, 5345.0, 5437.0, 5392.0, 5271.0, 5678.0, 5404.0, 5596.0, 5682.0, 5274.0, 5424.0, 5555.0, 5353.0, 5288.0, 5627.0, 5434.0, 5680.0, 5318.0, 5608.0, 5546.0, 5672.0, 5358.0, 5446.0, 5548.0, 5535.0, 5394.0, 5542.0, 5560.0, 5417.0, 5338.0, 5637.0, 5517.0, 5492.0, 5674.0, 5285.0, 5716.0, 5453.0, 5571.0, 5501.0,

						5703.0, 5624.0, 5510.0, 5427.0, 5557.0, 5712.0, 5527.0, 5456.0, 5277.0, 5362.0, 5651.0, 5465.0, 5343.0, 5386.0, 5582.0, 5320.0, 5256.0, 5402.0, 5411.0, 5590.0, 5330.0, 5485.0, 5585.0, 5478.0, 5356.0, 5691.0, 5482.0, 5551.0, 5366.0, 5432.0, 5409.0, 5525.0, 5322.0, 5593.0, 5325.0, 5646.0, 5491.0, 5301.0, 5419.0, 5578.0, 5426.0, 5261.0, 5643.0, 5530.0, 5406.0, 5717.0, 5407.0, 5581.0, 5720.0, 5262.0, 5521.0, 5495.0, 5471.0, 5334.0, 5699.0, 5558.0, 5316.0, 5263.0, 5499.0, 5654.0 (number of hits: 4)
21	5520	9	1	333	1	5270.0, 5416.0, 5667.0, 5301.0, 5685.0, 5567.0, 5295.0, 5718.0, 5410.0, 5391.0, 5479.0, 5610.0, 5323.0, 5462.0, 5599.0, 5379.0, 5447.0, 5297.0, 5621.0, 5334.0, 5422.0, 5602.0, 5628.0, 5703.0, 5551.0, 5607.0, 5388.0, 5553.0, 5684.0, 5643.0, 5504.0, 5483.0, 5322.0, 5392.0, 5285.0, 5657.0, 5365.0, 5409.0, 5296.0, 5465.0, 5705.0, 5298.0, 5314.0, 5627.0, 5532.0, 5547.0, 5698.0, 5724.0, 5682.0, 5446.0, 5668.0, 5499.0, 5574.0, 5623.0, 5541.0, 5345.0, 5309.0, 5505.0, 5609.0, 5315.0, 5423.0, 5535.0, 5598.0, 5539.0, 5666.0, 5589.0, 5487.0, 5660.0, 5626.0, 5564.0, 5521.0, 5459.0, 5401.0, 5362.0, 5353.0, 5269.0, 5276.0, 5450.0, 5665.0, 5662.0, 5546.0, 5624.0, 5601.0, 5586.0, 5341.0, 5357.0, 5346.0, 5466.0, 5498.0, 5286.0, 5428.0, 5406.0, 5306.0, 5305.0, 5696.0, 5387.0, 5476.0, 5622.0, 5529.0, 5337.0 (number of hits: 1)
22	5520	9	1	333	1	5723.0, 5465.0, 5639.0, 5362.0, 5461.0, 5272.0, 5438.0, 5271.0, 5649.0, 5274.0, 5495.0, 5315.0, 5412.0, 5460.0, 5524.0, 5388.0, 5654.0, 5623.0, 5459.0, 5502.0, 5293.0, 5436.0, 5400.0, 5372.0, 5268.0, 5603.0, 5385.0, 5621.0, 5551.0, 5713.0, 5655.0, 5445.0, 5393.0, 5571.0, 5316.0, 5342.0, 5636.0, 5425.0, 5541.0, 5452.0, 5343.0, 5693.0, 5583.0, 5540.0, 5329.0, 5376.0, 5510.0, 5254.0, 5575.0, 5306.0, 5653.0, 5506.0, 5721.0, 5319.0, 5662.0, 5700.0, 5337.0, 5406.0, 5714.0, 5494.0, 5457.0, 5403.0, 5368.0, 5681.0, 5667.0, 5676.0, 5449.0, 5413.0, 5437.0, 5604.0, 5433.0, 5383.0, 5267.0, 5585.0, 5544.0, 5722.0, 5573.0, 5358.0, 5251.0, 5607.0, 5350.0, 5305.0, 5434.0, 5313.0, 5279.0, 5478.0, 5701.0, 5411.0, 5556.0, 5635.0, 5283.0, 5392.0, 5405.0, 5493.0, 5414.0, 5451.0, 5332.0, 5326.0, 5262.0, 5591.0 (number of hits: 1)
23	5520	9	1	333	1	5679.0, 5527.0, 5515.0, 5458.0, 5448.0, 5707.0, 5703.0, 5300.0, 5688.0, 5559.0, 5624.0, 5628.0, 5539.0, 5450.0, 5267.0, 5399.0, 5658.0, 5602.0, 5518.0, 5489.0,

						5619.0, 5562.0, 5501.0, 5455.0, 5444.0, 5677.0, 5296.0, 5328.0, 5699.0, 5550.0, 5283.0, 5687.0, 5252.0, 5377.0, 5579.0, 5305.0, 5566.0, 5583.0, 5631.0, 5326.0, 5388.0, 5430.0, 5595.0, 5272.0, 5512.0, 5646.0, 5494.0, 5598.0, 5419.0, 5414.0, 5343.0, 5625.0, 5381.0, 5413.0, 5425.0, 5664.0, 5350.0, 5285.0, 5708.0, 5554.0, 5319.0, 5519.0, 5716.0, 5382.0, 5372.0, 5255.0, 5709.0, 5294.0, 5317.0, 5529.0, 5263.0, 5605.0, 5683.0, 5471.0, 5278.0, 5447.0, 5345.0, 5575.0, 5367.0, 5650.0, 5487.0, 5570.0, 5535.0, 5403.0, 5302.0, 5277.0, 5718.0, 5484.0, 5680.0, 5506.0, 5395.0, 5534.0, 5461.0, 5601.0, 5451.0, 5358.0, 5521.0, 5655.0, 5335.0, 5585.0 (number of hits: 6)
24	5520	9	1	333	1	5556.0, 5456.0, 5655.0, 5594.0, 5578.0, 5445.0, 5607.0, 5432.0, 5310.0, 5599.0, 5716.0, 5551.0, 5314.0, 5304.0, 5632.0, 5378.0, 5483.0, 5421.0, 5533.0, 5570.0, 5408.0, 5718.0, 5499.0, 5535.0, 5687.0, 5335.0, 5708.0, 5271.0, 5385.0, 5371.0, 5407.0, 5527.0, 5513.0, 5624.0, 5337.0, 5641.0, 5449.0, 5695.0, 5295.0, 5590.0, 5400.0, 5334.0, 5435.0, 5279.0, 5267.0, 5484.0, 5318.0, 5274.0, 5453.0, 5717.0, 5405.0, 5339.0, 5532.0, 5290.0, 5286.0, 5645.0, 5714.0, 5352.0, 5446.0, 5574.0, 5587.0, 5565.0, 5618.0, 5595.0, 5419.0, 5410.0, 5591.0, 5438.0, 5552.0, 5609.0, 5258.0, 5463.0, 5338.0, 5422.0, 5656.0, 5524.0, 5301.0, 5534.0, 5678.0, 5649.0, 5579.0, 5377.0, 5713.0, 5426.0, 5307.0, 5495.0, 5516.0, 5629.0, 5684.0, 5510.0, 5444.0, 5384.0, 5611.0, 5698.0, 5723.0, 5585.0, 5652.0, 5282.0, 5266.0, 5319.0 (number of hits: 4)
25	5520	9	1	333	1	5515.0, 5658.0, 5535.0, 5304.0, 5522.0, 5309.0, 5713.0, 5397.0, 5589.0, 5626.0, 5631.0, 5471.0, 5710.0, 5451.0, 5413.0, 5676.0, 5674.0, 5368.0, 5316.0, 5690.0, 5473.0, 5315.0, 5572.0, 5314.0, 5373.0, 5721.0, 5659.0, 5703.0, 5707.0, 5556.0, 5548.0, 5467.0, 5625.0, 5258.0, 5503.0, 5421.0, 5643.0, 5526.0, 5253.0, 5347.0, 5689.0, 5437.0, 5518.0, 5381.0, 5499.0, 5414.0, 5272.0, 5325.0, 5474.0, 5594.0, 5543.0, 5449.0, 5564.0, 5371.0, 5254.0, 5405.0, 5565.0, 5576.0, 5339.0, 5579.0, 5644.0, 5582.0, 5375.0, 5391.0, 5275.0, 5425.0, 5475.0, 5609.0, 5336.0, 5460.0, 5477.0, 5318.0, 5640.0, 5492.0, 5683.0, 5289.0, 5376.0, 5591.0, 5427.0, 5291.0, 5283.0, 5472.0, 5332.0, 5501.0, 5286.0, 5695.0, 5422.0, 5598.0, 5638.0, 5307.0, 5294.0, 5266.0, 5704.0, 5401.0, 5708.0, 5542.0, 5416.0, 5656.0, 5686.0, 5468.0 (number of hits: 4)

26	5520	9	1	333	1	5588.0, 5567.0, 5452.0, 5354.0, 5686.0, 5649.0, 5599.0, 5489.0, 5560.0, 5668.0, 5674.0, 5701.0, 5305.0, 5332.0, 5374.0, 5528.0, 5321.0, 5659.0, 5420.0, 5711.0, 5708.0, 5576.0, 5262.0, 5313.0, 5253.0, 5527.0, 5546.0, 5682.0, 5639.0, 5366.0, 5544.0, 5437.0, 5307.0, 5324.0, 5337.0, 5513.0, 5345.0, 5340.0, 5331.0, 5415.0, 5651.0, 5578.0, 5275.0, 5449.0, 5695.0, 5511.0, 5563.0, 5675.0, 5479.0, 5661.0, 5434.0, 5521.0, 5342.0, 5530.0, 5516.0, 5377.0, 5328.0, 5336.0, 5319.0, 5710.0, 5566.0, 5399.0, 5508.0, 5382.0, 5592.0, 5657.0, 5308.0, 5428.0, 5400.0, 5361.0, 5425.0, 5289.0, 5347.0, 5403.0, 5367.0, 5271.0, 5605.0, 5525.0, 5580.0, 5586.0, 5333.0, 5424.0, 5482.0, 5547.0, 5664.0, 5458.0, 5462.0, 5390.0, 5295.0, 5300.0, 5555.0, 5421.0, 5392.0, 5722.0, 5672.0, 5338.0, 5290.0, 5416.0, 5529.0, 5644.0 (number of hits: 7)
27	5520	9	1	333	1	5405.0, 5637.0, 5692.0, 5508.0, 5587.0, 5419.0, 5569.0, 5486.0, 5377.0, 5650.0, 5434.0, 5714.0, 5453.0, 5317.0, 5431.0, 5269.0, 5687.0, 5395.0, 5688.0, 5498.0, 5353.0, 5619.0, 5698.0, 5589.0, 5685.0, 5475.0, 5513.0, 5442.0, 5567.0, 5599.0, 5469.0, 5448.0, 5623.0, 5527.0, 5257.0, 5428.0, 5273.0, 5528.0, 5672.0, 5642.0, 5258.0, 5283.0, 5425.0, 5718.0, 5693.0, 5664.0, 5292.0, 5581.0, 5410.0, 5446.0, 5530.0, 5357.0, 5436.0, 5660.0, 5417.0, 5582.0, 5593.0, 5270.0, 5271.0, 5673.0, 5392.0, 5492.0, 5487.0, 5362.0, 5320.0, 5250.0, 5313.0, 5649.0, 5580.0, 5594.0, 5494.0, 5684.0, 5416.0, 5504.0, 5541.0, 5638.0, 5495.0, 5266.0, 5674.0, 5411.0, 5378.0, 5363.0, 5284.0, 5280.0, 5414.0, 5723.0, 5374.0, 5478.0, 5261.0, 5443.0, 5251.0, 5681.0, 5438.0, 5706.0, 5430.0, 5621.0, 5694.0, 5670.0, 5459.0, 5381.0 (number of hits: 3)
28	5520	9	1	333	1	5256.0, 5440.0, 5468.0, 5371.0, 5328.0, 5699.0, 5421.0, 5582.0, 5716.0, 5393.0, 5403.0, 5634.0, 5712.0, 5458.0, 5400.0, 5678.0, 5707.0, 5369.0, 5537.0, 5322.0, 5324.0, 5432.0, 5360.0, 5633.0, 5695.0, 5624.0, 5569.0, 5472.0, 5608.0, 5619.0, 5300.0, 5593.0, 5644.0, 5478.0, 5635.0, 5470.0, 5681.0, 5350.0, 5576.0, 5490.0, 5378.0, 5622.0, 5665.0, 5585.0, 5482.0, 5511.0, 5272.0, 5586.0, 5266.0, 5683.0, 5302.0, 5457.0, 5301.0, 5267.0, 5357.0, 5410.0, 5696.0, 5632.0, 5262.0, 5430.0, 5587.0, 5386.0, 5281.0, 5687.0, 5518.0, 5306.0, 5315.0, 5534.0, 5566.0, 5719.0, 5693.0, 5481.0, 5557.0, 5532.0, 5286.0, 5411.0, 5257.0, 5373.0, 5710.0, 5292.0, 5657.0, 5594.0, 5259.0, 5504.0, 5526.0,

						5325.0, 5553.0, 5471.0, 5253.0, 5697.0, 5459.0, 5616.0, 5405.0, 5631.0, 5661.0, 5630.0, 5539.0, 5675.0, 5485.0, 5285.0 (number of hits: 3)
29	5520	9	1	333	1	5375.0, 5412.0, 5551.0, 5442.0, 5680.0, 5602.0, 5632.0, 5690.0, 5305.0, 5588.0, 5366.0, 5480.0, 5300.0, 5655.0, 5469.0, 5538.0, 5302.0, 5699.0, 5334.0, 5284.0, 5435.0, 5319.0, 5459.0, 5601.0, 5717.0, 5470.0, 5701.0, 5628.0, 5666.0, 5558.0, 5402.0, 5649.0, 5648.0, 5617.0, 5718.0, 5578.0, 5681.0, 5337.0, 5561.0, 5499.0, 5603.0, 5677.0, 5371.0, 5303.0, 5314.0, 5525.0, 5279.0, 5594.0, 5437.0, 5652.0, 5642.0, 5479.0, 5320.0, 5270.0, 5325.0, 5260.0, 5613.0, 5535.0, 5599.0, 5415.0, 5359.0, 5486.0, 5306.0, 5312.0, 5431.0, 5568.0, 5362.0, 5709.0, 5336.0, 5673.0, 5607.0, 5534.0, 5280.0, 5298.0, 5532.0, 5460.0, 5406.0, 5704.0, 5658.0, 5388.0, 5326.0, 5545.0, 5392.0, 5657.0, 5640.0, 5556.0, 5684.0, 5639.0, 5671.0, 5683.0, 5526.0, 5257.0, 5318.0, 5573.0, 5327.0, 5672.0, 5511.0, 5541.0, 5662.0, 5400.0 (number of hits: 3)
30	5520	9	1	333	1	5430.0, 5664.0, 5293.0, 5429.0, 5460.0, 5308.0, 5428.0, 5299.0, 5285.0, 5434.0, 5509.0, 5500.0, 5368.0, 5474.0, 5625.0, 5712.0, 5409.0, 5412.0, 5517.0, 5419.0, 5705.0, 5508.0, 5376.0, 5586.0, 5645.0, 5477.0, 5630.0, 5281.0, 5504.0, 5342.0, 5271.0, 5251.0, 5363.0, 5601.0, 5447.0, 5516.0, 5565.0, 5647.0, 5291.0, 5358.0, 5254.0, 5551.0, 5469.0, 5302.0, 5548.0, 5345.0, 5611.0, 5616.0, 5540.0, 5488.0, 5393.0, 5280.0, 5513.0, 5295.0, 5380.0, 5537.0, 5695.0, 5266.0, 5354.0, 5377.0, 5306.0, 5379.0, 5487.0, 5440.0, 5528.0, 5471.0, 5582.0, 5337.0, 5277.0, 5692.0, 5650.0, 5564.0, 5467.0, 5690.0, 5492.0, 5421.0, 5439.0, 5265.0, 5359.0, 5329.0, 5402.0, 5713.0, 5543.0, 5599.0, 5519.0, 5652.0, 5653.0, 5572.0, 5676.0, 5658.0, 5574.0, 5523.0, 5609.0, 5449.0, 5661.0, 5674.0, 5446.0, 5660.0, 5276.0, 5673.0 (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	100 %	60%	Pass
Type 3	30	100 %	60%	Pass
Type 4	30	100 %	60%	Pass
Aggregate (Type1 to 4)	120	100 %	80%	Pass
Type 5	30	96.67 %	80%	Pass
Type 6	30	100 %	70%	Pass

Please refer to the following statistical tables:

5510 MHz, 40 MHz Bandwidth

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

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5510	68	1	778	1
2	5510	81	1	658	1
3	5510	78	1	678	1
4	5510	89	1	598	1
5	5510	62	1	858	1
6	5510	58	1	918	1
7	5510	102	1	518	1
8	5510	95	1	558	1
9	5510	76	1	698	1
10	5510	67	1	798	1
11	5510	63	1	838	1
12	5510	61	1	878	1
13	5510	72	1	738	1
14	5510	92	1	578	1
15	5510	70	1	758	1
16	5510	33	1	1628	1
17	5510	22	1	2464	1
18	5510	53	1	1001	1
19	5510	58	1	919	1
20	5510	30	1	1807	1
21	5510	95	1	559	1
22	5510	29	1	1869	1
23	5510	20	1	2714	1
24	5510	42	1	1261	1
25	5510	37	1	1435	1
26	5510	19	1	2850	1
27	5510	44	1	1214	1
28	5510	45	1	1176	1
29	5510	38	1	1413	1
30	5510	57	1	933	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	29	4.8	167	1
2	5510	29	2.8	166	1
3	5510	25	1.9	153	1
4	5510	23	2.7	195	1
5	5510	29	3.4	215	1
6	5510	25	1.2	224	1
7	5510	28	4.3	176	1
8	5510	26	4	209	1
9	5510	26	2.9	181	1
10	5510	25	2.9	211	1
11	5510	28	5	180	1
12	5510	26	1.5	172	1
13	5510	28	3	225	1
14	5510	29	3	157	1
15	5510	28	2.7	186	1
16	5510	26	4.7	217	1
17	5510	29	4.2	211	1
18	5510	29	2.2	221	1
19	5510	24	1.4	226	1
20	5510	24	1.5	199	1
21	5510	24	2.3	192	1
22	5510	24	2.8	198	1
23	5510	26	1.9	155	1
24	5510	24	4.8	196	1
25	5510	25	2.5	153	1
26	5510	28	2.6	195	1
27	5510	28	1.6	213	1
28	5510	23	2	154	1
29	5510	29	4.2	176	1
30	5510	29	2.7	151	1
Detection Percentage: 100 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5510	16	9.3	479	1
2	5510	17	6.6	339	1
3	5510	16	9.6	449	1
4	5510	17	8.7	271	1
5	5510	17	9.8	293	1
6	5510	16	6.5	429	1
7	5510	18	6.7	331	1
8	5510	16	9.5	372	1
9	5510	18	6.8	435	1
10	5510	18	8.6	271	1
11	5510	18	9.8	332	1
12	5510	18	8	454	1
13	5510	17	8.7	285	1
14	5510	16	6.2	341	1
15	5510	18	6	455	1
16	5510	16	7.6	399	1
17	5510	17	6.7	429	1
18	5510	16	6.9	306	1
19	5510	16	7.2	385	1
20	5510	16	7.9	416	1
21	5510	16	7.2	353	1
22	5510	18	6.9	484	1
23	5510	18	9.7	303	1
24	5510	16	8.1	439	1
25	5510	16	7.1	217	1
26	5510	16	9.4	219	1
27	5510	16	8	424	1
28	5510	16	6.1	477	1
29	5510	18	7.1	346	1
30	5510	16	8.4	438	1
Detection Percentage: 100 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5510	15	11.6	418	1
2	5510	12	13.2	354	1
3	5510	16	16.7	200	1
4	5510	15	11.4	348	1
5	5510	16	11.4	284	1
6	5510	15	12.6	432	1
7	5510	15	11.9	438	1
8	5510	14	17.5	414	1
9	5510	16	19.6	263	1
10	5510	12	11.3	426	1
11	5510	14	14.6	373	1
12	5510	16	19.3	471	1
13	5510	16	16.9	464	1
14	5510	15	15.2	425	1
15	5510	16	16.6	400	1
16	5510	12	12.1	327	1
17	5510	12	19	207	1
18	5510	12	14	490	1
19	5510	12	14.4	499	1
20	5510	16	11.6	276	1
21	5510	14	11.7	304	1
22	5510	14	17.6	204	1
23	5510	13	18.2	231	1
24	5510	14	12.5	300	1
25	5510	13	15	414	1
26	5510	12	15.7	242	1
27	5510	16	18.9	464	1
28	5510	15	18.9	498	1
29	5510	12	19.1	478	1
30	5510	16	18.4	273	1
Detection Percentage: 100 % (>60%)					

Table-5 Radar Type 5 Statistical Performance

Trial #	Fc (MHz)	Detection (1:yes; 0:no)
1	5510	1
2	5510	1
3	5510	1
4	5510	1
5	5510	1
6	5510	1
7	5510	1
8	5510	1
9	5510	1
10	5510	1
11	5494.2	1
12	5495.8	1
13	5497.8	0
14	5494.2	1
15	5497.0	1
16	5495.8	1
17	5497.4	1
18	5495.0	1
19	5493.4	1
20	5493.8	1
21	5524.2	1
22	5527.0	1
23	5524.2	1
24	5522.2	1
25	5521.0	1
26	5525.0	1
27	5526.2	1
28	5525.8	1
29	5525.4	1
30	5522.2	1
Detection Percentage: 96.67 % (>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	16	53.7	1370		0.396117	
1	1	16	65.8			0.885383	
2	1	16	78.6			1.83205	
3	2	16	62.5	1379		2.855249	
4	1	16	64.1			3.930421	
5	3	16	76.1	1010	1241	4.162219	
6	2	16	69	1940		5.276012	
7	3	16	63.3	1648	1957	5.811201	1
8	3	16	56.2	1140	1805	6.595906	
9	1	16	94.7			7.437553	
10	1	16	94.7			8.644167	
11	2	16	93.9	1462		8.814671	
12	1	16	86.1			9.946271	
13	2	16	53.4	1150		10.558386	
14	2	16	95.5	1141		11.53299	

Bin5 Statistics 2

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	14	73	1566	1045	0.539714	
1	2	14	56.3	1347		0.983352	
2	2	14	52.2	1070		1.671394	
3	3	14	58.3	1239	1712	1.991323	
4	3	14	88.9	1876	1692	2.453846	
5	2	14	98.7	1625		3.291962	
6	3	14	80	1265	1431	4.114383	
7	3	14	85.4	1833	1824	4.404221	
8	3	14	88.9	1371	1656	4.819133	
9	3	14	78.9	1494	1922	5.513828	
10	3	14	75.4	1083	1788	6.53138	1
11	1	14	75.8			6.738499	
12	2	14	68.2	1152		7.611625	
13	2	14	70.3	1157		8.371712	
14	2	14	80.4	1156		8.670549	
15	2	14	68.3	1195		9.42215	
16	2	14	56.6	1263		9.797699	
17	2	14	83.8	1730		10.585727	
18	3	14	52.9	1314	1794	10.800652	
19	3	14	68.7	1268	1378	11.744491	

Bin5 Statistics 3

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	6	76.9			0.661827	
1	1	6	76.5			0.767595	
2	2	6	89.4	1660		1.374095	
3	2	6	80.4	1566		2.590198	
4	1	6	96.8			2.758679	
5	2	6	75	1839		3.7922	
6	2	6	90	1441		4.405234	
7	2	6	69.7	1915		4.714983	
8	1	6	87.4			5.435251	
9	2	6	85.5	1870		6.10806	1
10	3	6	61.3	1308	1513	6.757454	
11	1	6	95.4			7.641077	
12	2	6	86.1	1280		8.27198	
13	2	6	63.7	1951		8.871936	
14	2	6	73.8	1086		9.914667	
15	3	6	97.6	1754	1924	10.565779	
16	1	6	72.6			11.319867	
17	3	6	80.3	1742	1493	11.702956	

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	95.9	1812		0.401415	
1	2	11	98.1	1410		0.704658	
2	1	11	89.4			1.978372	
3	2	11	71.7	1808		2.559553	
4	1	11	65.6			2.877897	
5	2	11	78.6	1129		3.549896	
6	2	11	86	1774		4.255641	
7	1	11	59.5			4.89634	
8	1	11	82.9			5.814179	
9	2	11	50.2	1171		6.29679	1
10	3	11	60.9	1306	1304	6.9241	
11	1	11	81.1			7.563612	
12	3	11	61.6	1003	1119	8.374328	
13	2	11	88.3	1945		9.225156	
14	3	11	51.1	1332	1295	9.848163	
15	1	11	64.9			10.129393	
16	2	11	92.6	1477		11.25864	
17	2	11	53.3	1229		11.780084	

Bin5 Statistics 5

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	9	56.5	1876		0.244878	1
1	1	9	93.1			1.047535	
2	1	9	57.5			2.113568	
3	2	9	99.1	1208		3.857358	
4	3	9	62.7	1680	1850	4.026155	
5	2	9	55.1	1194		5.164685	
6	2	9	99.4	1097		6.233575	
7	2	9	97.5	1542		7.833507	
8	2	9	55.5	1509		8.942808	
9	3	9	52.7	1071	1417	9.968797	
10	3	9	92.6	1889	1193	10.636441	
11	1	9	99.4			11.936573	

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	8	85.8			0.413508	1
1	3	8	55.2	1027	1703	1.193192	
2	1	8	89.3			1.690279	
3	2	8	87.5	1707		2.520467	
4	1	8	81.1			2.787843	
5	2	8	97	1721		3.718266	
6	2	8	56	1393		4.188614	
7	1	8	82.3			4.933744	
8	2	8	89.2	1130		5.757953	
9	1	8	53.8			6.319949	
10	3	8	63.5	1171	1465	6.676261	
11	2	8	56.2	1748		7.608686	
12	2	8	99	1493		8.033485	
13	2	8	81.1	1846		9.307514	
14	2	8	68.8	1339		9.476102	
15	2	8	95.7	1414		10.580608	
16	3	8	52.4	1635	1938	11.160503	
17	2	8	82.5	1555		11.81619	

Bin5 Statistics 7

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	7	80.7	1551		0.742215	1
1	3	7	50.5	1275	1819	1.283664	
2	2	7	97.7	1069		2.252548	
3	2	7	60	1710		2.830583	
4	2	7	68.3	1465		3.264046	
5	3	7	75.7	1624	1769	4.41227	
6	3	7	98.1	1495	1636	5.008203	
7	2	7	57	1607		6.202655	
8	2	7	88.4	1014		6.581868	
9	1	7	66.9			7.628656	
10	1	7	70.1			8.731173	
11	3	7	58.2	1698	1807	9.077773	
12	3	7	75.6	1339	1274	10.02044	
13	1	7	83.3			10.956807	
14	2	7	68.4	1640		11.283772	

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	8	59.1	1575	1390	0.888737	1
1	3	8	72.9	1335	1804	1.364116	
2	2	8	75.9	1406		3.513012	
3	2	8	63.7	1437		3.630175	
4	2	8	75.3	1753		5.73163	
5	1	8	53.7			6.256398	
6	2	8	86.6	1054		8.096091	
7	2	8	65.5	1861		9.405983	
8	2	8	77.1	1587		9.764245	
9	1	8	67.7			11.426349	

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	10	54.6	1606		0.137242	1
1	2	10	63	1898		0.924423	
2	3	10	78	1643	1846	2.227332	
3	1	10	71.9			3.511919	
4	3	10	92	1321	1954	3.823296	
5	1	10	80.9			4.800976	
6	2	10	72.9	1725		5.775453	
7	3	10	50.1	1057	1133	7.217393	
8	2	10	53.3	1039		7.758456	
9	3	10	77.1	1343	1010	8.841869	
10	2	10	54.3	1388		9.380608	
11	3	10	61.3	1028	1538	10.434316	
12	3	10	52.6	1392	1841	11.689495	

Bin5 Statistics 10

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	11	76.3	1440	1972	1.049481	1
1	3	11	86.6	1943	1335	2.129125	
2	2	11	75.9	1784		3.380761	
3	2	11	86.2	1592		3.677385	
4	3	11	82.2	1532	1991	5.691741	
5	2	11	65.9	1748		6.130193	
6	1	11	59			8.152913	
7	2	11	90	1263		8.515193	
8	3	11	99.9	1433	1843	10.279409	
9	3	11	96.7	1986	1662	11.617109	

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	8	94	1268	1465	0.039597	
1	2	8	65.4	1760		0.900234	
2	3	8	81.2	1036	1472	1.49796	
3	2	8	63.5	1137		2.394029	
4	2	8	83.3	1887		3.069361	
5	2	8	92.9	1338		3.424788	
6	1	8	58.8			4.19243	
7	2	8	73.3	1337		4.85218	
8	1	8	77.5			5.114529	
9	1	8	96.1			6.103211	1
10	2	8	92.4	1169		6.646591	
11	2	8	56.8	1970		7.116125	
12	2	8	89	1673		7.707647	
13	2	8	88.4	1148		8.768181	
14	2	8	86.8	1920		9.376104	
15	3	8	84.7	1968	1833	9.976998	
16	3	8	52.3	1261	1128	10.187846	
17	3	8	89.2	1938	1170	11.20314	
18	1	8	82.4			11.425777	

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	12	94.9	1656		0.463983	1
1	2	12	61.2	1525		1.877092	
2	2	12	85	1491		2.971305	
3	2	12	60.8	1820		3.500812	
4	2	12	84.9	1661		4.591993	
5	2	12	88.8	1319		5.295086	
6	1	12	82.1			6.847329	
7	2	12	55.5	1448		7.700729	
8	3	12	88.9	1439	1474	8.249911	
9	1	12	59.5			9.401362	
10	2	12	94.2	1296		10.041539	
11	2	12	68.1	1824		11.28556	

Bin5 Statistics 13

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	17	89.5	1895		0.197359	0
1	1	17	77.3			1.044263	
2	1	17	78.8			2.806153	
3	2	17	88.4	1637		3.20027	
4	2	17	60	1964		4.583621	
5	1	17	82.4			5.670799	
6	3	17	76.9	1293	1610	6.953003	
7	2	17	57	1664		7.31856	
8	2	17	61.7	1305		8.104597	
9	1	17	71.2			9.197363	
10	1	17	69.5			10.569609	
11	2	17	81.7	1810		11.301292	

Bin5 Statistics 14

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	8	51.3	1317	1566	0.39935	1
1	2	8	52.8	1322		1.052176	
2	2	8	70.8	1818		2.677333	
3	2	8	64	1742		3.504285	
4	2	8	50.5	1242		4.583751	
5	1	8	76.2			4.94723	
6	3	8	51.9	1968	1402	5.826813	
7	1	8	79.2			7.085967	
8	2	8	97.5	1598		7.412429	
9	1	8	65.1			8.458164	
10	2	8	81.4	1504		9.858871	
11	1	8	95.8			11.051434	
12	2	8	50.1	1897		11.419235	

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	15	87.7	1912		0.632723	1
1	1	15	55			1.106612	
2	1	15	89.8			2.481444	
3	1	15	89.5			3.96974	
4	2	15	96.2	1129		4.871756	
5	1	15	67.8			5.901781	
6	2	15	94.9	1941		6.76497	
7	2	15	93.1	1713		7.933149	
8	3	15	95.7	1871	1126	8.204606	
9	3	15	65.8	1137	1532	9.544853	
10	2	15	70.2	1855		10.710528	
11	2	15	83.6	1083		11.117212	

Bin5 Statistics 16

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	12	53			0.088073	1
1	3	12	76.9	1476	1277	0.69146	
2	2	12	81.8	1976		1.64598	
3	2	12	86	1238		2.309997	
4	2	12	99.7	1548		3.041643	
5	1	12	51.1			3.362101	
6	2	12	92.3	1055		4.647351	
7	2	12	96.3	1209		5.054679	
8	2	12	82.2	1032		5.816486	
9	3	12	67.8	1645	1125	6.10525	
10	2	12	96	1509		7.104627	
11	1	12	57.5			7.873989	
12	2	12	71	1388		8.601356	
13	1	12	58.5			9.026857	
14	3	12	96.3	1003	1598	9.43685	
15	3	12	88.5	1117	1679	10.561731	
16	2	12	81.9	1397		10.699008	
17	1	12	97.2			11.754203	

Bin5 Statistics 17

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	16	75.6	1206		0.083325	
1	3	16	92.2	1381	1113	0.973809	
2	3	16	83.4	1398	1065	2.200139	
3	1	16	79.5			2.870961	
4	2	16	76.6	1106		3.535343	
5	3	16	57	1284	1192	4.118937	
6	3	16	54.4	1469	1397	5.386299	
7	1	16	52.2			6.239366	1
8	3	16	94.2	1627	1426	6.691466	
9	3	16	89.1	1891	1315	7.942793	
10	1	16	97.7			8.71862	
11	2	16	94.9	1759		9.138502	
12	2	16	86.2	1758		10.284286	
13	3	16	70	1181	1085	10.413067	
14	2	16	85.5	1973		11.966996	

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	10	83.8	1090		0.111905	
1	1	10	80.1			1.386068	
2	2	10	70	1770		2.528559	
3	3	10	55.3	1230	1035	3.88535	
4	3	10	50.9	1530	1482	4.700849	
5	3	10	53.8	1905	1218	5.123289	
6	2	10	87.1	1991		6.473369	1
7	1	10	57.9			7.42527	
8	1	10	84.5			8.307777	
9	3	10	65.7	1633	1523	9.666962	
10	2	10	82.6	1938		10.549659	
11	1	10	74.5			11.693785	

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	6	93.2	1217		0.538729	
1	2	6	94.5	1901		0.784398	
2	2	6	79.5	1162		1.535237	
3	2	6	65.6	1483		2.25334	
4	2	6	94.8	1115		3.283108	
5	3	6	80.1	1526	1959	3.352244	
6	2	6	73	1733		4.233896	
7	2	6	58.3	1576		5.324035	
8	1	6	53			5.562998	
9	1	6	65.3			6.019212	1
10	2	6	68.2	1538		7.084683	
11	3	6	69.2	1776	1329	7.961487	
12	2	6	76.9	1343		8.12433	
13	2	6	91.3	1728		9.14329	
14	1	6	71.8			9.492166	
15	1	6	78			10.472597	
16	1	6	55.2			11.048054	
17	1	6	64.2			11.735265	

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	7	82.2			0.170779	
1	1	7	96.7			0.973434	
2	1	7	89.7			1.683745	
3	1	7	88.7			2.699685	
4	3	7	86.9	1631	1482	3.517329	
5	3	7	81.8	1119	1997	3.579354	
6	1	7	97.5			4.266256	
7	3	7	70.7	1585	1654	5.077541	
8	2	7	83.7	1469		6.316085	1
9	3	7	64.5	1565	1960	6.490638	
10	2	7	61.9	1296		7.729614	
11	1	7	66.8			7.799669	
12	2	7	92.2	1048		9.117734	
13	1	7	94.9			9.221124	
14	2	7	79.1	1348		10.371254	
15	2	7	72.8	1221		10.698336	
16	1	7	55.6			11.804252	

Bin5 Statistics 21

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	12	94.1	1965		0.187837	
1	2	12	75.8	1073		2.000525	
2	2	12	51.7	1223		3.250032	
3	2	12	98.2	1918		3.512264	
4	2	12	75.2	1144		4.546714	
5	2	12	70.1	1006		5.961055	1
6	3	12	90.1	1852	1759	6.875079	
7	3	12	62.6	1932	1021	8.052524	
8	1	12	99.3			8.989594	
9	2	12	62.1	1787		10.653118	
10	1	12	89.3			11.504287	

Bin5 Statistics 22

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	5	70.5	1826	1021	0.192433	
1	2	5	54.4	1894		1.222936	
2	1	5	57			1.498097	
3	3	5	69.8	1507	1509	2.55721	
4	2	5	67.5	1228		3.029242	
5	2	5	54.4	1529		3.860532	
6	3	5	71.7	1096	1185	4.696166	
7	2	5	91.6	1563		5.254817	
8	3	5	72.8	1031	1115	5.852307	1
9	2	5	90.3	1005		6.811614	
10	2	5	89.5	1693		7.709046	
11	3	5	80.2	1068	1936	8.285772	
12	3	5	59.9	1021	1767	9.164199	
13	2	5	57.5	1848		9.598154	
14	1	5	56.7			10.511827	
15	1	5	60.5			10.635951	
16	2	5	82.5	1639		11.669665	

Bin5 Statistics 23

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	12	91.6			0.879717	
1	2	12	79.3	1952		1.854635	
2	3	12	83.5	1395	1756	3.590195	
3	2	12	84.6	1939		5.226771	
4	3	12	91.4	1657	1447	6.585842	1
5	2	12	52.2	1364		7.667315	
6	3	12	64.1	1020	1687	9.026797	
7	2	12	82.1	1671		9.503545	
8	2	12	52.3	1889		11.17774	

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	17	50.4	1042	1285	0.198754	
1	3	17	54.9	1237	1742	1.636869	
2	2	17	62.3	1111		2.420743	
3	1	17	58.9			3.814176	
4	2	17	81.5	1629		5.247573	
5	2	17	69.9	1188		6.236291	1
6	2	17	94.4	1478		7.535812	
7	2	17	59.4	1402		8.635614	
8	2	17	67.4	1988		9.075852	
9	2	17	93.2	1911		10.359474	
10	1	17	60.2			11.374342	

Bin5 Statistics 25

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	20	82.8			0.312965	
1	2	20	59	1182		2.547656	
2	2	20	97.4	1673		3.236411	
3	2	20	75.2	1371		5.188701	
4	2	20	56.3	1884		5.851094	1
5	3	20	78	1288	1972	7.485054	
6	2	20	58.6	1160		8.944398	
7	3	20	77.2	1642	1554	10.406071	
8	1	20	50.1			11.575232	

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	10	57.1			0.501217	
1	2	10	88	1431		1.483918	
2	2	10	92.7	1782		3.739822	
3	1	10	88.6			4.464585	
4	3	10	86.9	1726	1580	6.173792	1
5	2	10	57.7	1505		7.074063	
6	2	10	91.2	1201		9.162379	
7	1	10	58.5			10.637508	
8	3	10	94.4	1527	1366	11.861345	

Bin5 Statistics 27

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	7	63.2	1648		0.565564	
1	2	7	66.2	1805		2.375549	
2	2	7	51.2	1602		3.394913	
3	2	7	91.9	1811		4.299607	
4	2	7	75.3	1024		5.601331	1
5	2	7	76.9	1773		6.766336	
6	1	7	51.1			8.529212	
7	1	7	62.7			9.393777	
8	2	7	70.4	1604		10.861588	

Bin5 Statistics 28

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	8	96.2			0.214584	
1	2	8	69.1	1242		1.106249	
2	3	8	59.4	1655	1443	1.897192	
3	2	8	83.1	1283		2.376535	
4	1	8	99.5			3.440728	
5	2	8	82.7	1480		3.590477	
6	3	8	63.4	1408	1980	4.729984	
7	2	8	95.7	1851		5.334792	
8	3	8	64.9	1067	1037	6.273605	1
9	3	8	59.6	1005	1790	6.598317	
10	2	8	57.6	1077		7.073436	
11	1	8	65.7			8.220681	
12	1	8	84.7			8.676619	
13	2	8	77.4	1018		9.74409	
14	2	8	94.9	1475		10.41177	
15	2	8	97.9	1808		11.079458	
16	2	8	82.9	1300		11.327275	

Bin5 Statistics 29

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	9	93	1814	1613	0.41343	
1	2	9	74.8	1859		0.932411	
2	1	9	70.3			1.423988	
3	3	9	92.4	1658	1176	2.678554	
4	3	9	55.3	1283	1125	3.277757	
5	2	9	53	1325		3.846018	
6	2	9	79.3	1398		4.395765	
7	2	9	84.7	1484		5.203974	
8	1	9	77.2			6.242954	1
9	2	9	81	1232		6.518054	
10	1	9	53.1			7.298324	
11	2	9	87.4	1959		7.889109	
12	2	9	92.8	1709		8.545312	
13	2	9	80.7	1918		9.824684	
14	3	9	64.6	1211	1306	10.187416	
15	1	9	52.3			11.055263	
16	2	9	60	1061		11.609368	

Bin5 Statistics 30

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	17	95.8			0.118191	
1	2	17	97.8	1236		0.86862	
2	3	17	88.3	1716	1743	1.456901	
3	2	17	75.9	1383		2.012687	
4	2	17	95.4	1787		2.89855	
5	1	17	56.3			3.213562	
6	2	17	63.8	1142		4.036578	
7	2	17	92.8	1287		4.675501	
8	1	17	62.2			5.434165	
9	1	17	98.5			5.983638	1
10	2	17	62.8	1697		6.685123	
11	3	17	63.5	1027	1793	7.142995	
12	2	17	65.8	1064		7.803705	
13	1	17	78.6			8.270868	
14	2	17	67.5	1813		9.017607	
15	2	17	81.8	1478		9.478891	
16	2	17	56.9	1723		10.350403	
17	2	17	68.6	1726		11.139054	
18	1	17	59.2			11.647127	

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	5674.0, 5589.0, 5318.0, 5615.0, 5311.0, 5545.0, 5575.0, 5533.0, 5697.0, 5491.0, 5664.0, 5644.0, 5563.0, 5619.0, 5383.0, 5485.0, 5424.0, 5296.0, 5438.0, 5709.0, 5449.0, 5421.0, 5277.0, 5315.0, 5255.0, 5275.0, 5310.0, 5325.0, 5305.0, 5520.0, 5568.0, 5605.0, 5508.0, 5336.0, 5710.0, 5604.0, 5626.0, 5688.0, 5312.0, 5347.0, 5343.0, 5708.0, 5451.0, 5432.0, 5361.0, 5309.0, 5349.0, 5683.0, 5554.0, 5486.0, 5320.0, 5641.0, 5456.0, 5376.0, 5573.0, 5576.0, 5360.0, 5257.0, 5492.0, 5354.0, 5649.0, 5500.0, 5525.0, 5574.0, 5662.0, 5623.0, 5651.0, 5418.0, 5368.0, 5398.0, 5397.0, 5487.0, 5416.0, 5284.0, 5362.0, 5628.0, 5542.0, 5660.0, 5369.0, 5718.0, 5317.0, 5600.0, 5714.0, 5706.0, 5646.0, 5459.0, 5502.0, 5558.0, 5386.0, 5531.0, 5534.0, 5548.0, 5501.0, 5572.0, 5440.0, 5490.0, 5433.0, 5322.0, 5540.0, 5526.0 (number of hits: 9)
2	5510	9	1	333	1	5705.0, 5629.0, 5627.0, 5679.0, 5350.0, 5584.0, 5304.0, 5479.0, 5461.0, 5663.0, 5714.0, 5574.0, 5562.0, 5495.0, 5276.0, 5333.0, 5294.0, 5284.0, 5596.0, 5423.0, 5340.0, 5671.0, 5621.0, 5720.0, 5567.0, 5513.0, 5429.0, 5628.0, 5595.0, 5712.0, 5703.0, 5313.0, 5251.0, 5523.0, 5466.0, 5258.0, 5699.0, 5535.0, 5609.0, 5390.0, 5537.0, 5615.0, 5469.0, 5533.0, 5707.0, 5420.0, 5521.0, 5322.0, 5309.0, 5451.0, 5298.0, 5467.0, 5598.0, 5717.0, 5366.0, 5360.0, 5497.0, 5376.0, 5253.0, 5367.0, 5432.0, 5349.0, 5504.0, 5359.0, 5551.0, 5539.0, 5604.0, 5716.0, 5320.0, 5380.0, 5597.0, 5431.0, 5473.0, 5651.0, 5563.0, 5647.0, 5566.0, 5552.0, 5541.0, 5623.0, 5676.0, 5334.0, 5659.0, 5464.0, 5443.0, 5501.0, 5287.0, 5500.0, 5618.0, 5493.0, 5630.0, 5475.0, 5662.0, 5675.0, 5644.0, 5364.0, 5291.0, 5572.0, 5378.0, 5576.0 (number of hits: 9)
3	5510	9	1	333	1	5534.0, 5642.0, 5289.0, 5541.0, 5403.0, 5549.0, 5398.0, 5526.0, 5609.0, 5291.0, 5527.0, 5315.0, 5457.0, 5522.0, 5512.0, 5699.0, 5593.0, 5276.0, 5487.0, 5636.0, 5517.0, 5331.0, 5269.0, 5409.0, 5505.0, 5376.0, 5422.0, 5402.0, 5321.0, 5509.0, 5662.0, 5690.0, 5661.0, 5251.0, 5406.0, 5595.0, 5427.0, 5498.0, 5702.0, 5669.0, 5634.0, 5424.0, 5605.0, 5463.0, 5267.0, 5419.0, 5305.0, 5382.0, 5678.0, 5722.0, 5278.0, 5530.0, 5555.0, 5352.0, 5412.0,

						5610.0, 5559.0, 5446.0, 5524.0, 5346.0, 5296.0, 5324.0, 5656.0, 5545.0, 5290.0, 5579.0, 5542.0, 5337.0, 5295.0, 5576.0, 5256.0, 5677.0, 5474.0, 5600.0, 5682.0, 5660.0, 5280.0, 5385.0, 5580.0, 5310.0, 5645.0, 5265.0, 5399.0, 5298.0, 5519.0, 5357.0, 5603.0, 5612.0, 5470.0, 5543.0, 5693.0, 5679.0, 5568.0, 5404.0, 5684.0, 5501.0, 5268.0, 5408.0, 5500.0, 5700.0 (number of hits: 12)
4	5510	9	1	333	1	5569.0, 5640.0, 5693.0, 5576.0, 5478.0, 5658.0, 5416.0, 5327.0, 5666.0, 5358.0, 5424.0, 5298.0, 5589.0, 5294.0, 5610.0, 5630.0, 5597.0, 5353.0, 5621.0, 5374.0, 5447.0, 5708.0, 5413.0, 5482.0, 5530.0, 5720.0, 5471.0, 5551.0, 5329.0, 5306.0, 5321.0, 5703.0, 5538.0, 5429.0, 5657.0, 5383.0, 5654.0, 5564.0, 5509.0, 5365.0, 5524.0, 5481.0, 5278.0, 5717.0, 5259.0, 5265.0, 5674.0, 5357.0, 5252.0, 5318.0, 5724.0, 5582.0, 5456.0, 5641.0, 5305.0, 5355.0, 5421.0, 5368.0, 5281.0, 5634.0, 5316.0, 5713.0, 5276.0, 5558.0, 5493.0, 5692.0, 5322.0, 5400.0, 5723.0, 5629.0, 5251.0, 5512.0, 5603.0, 5514.0, 5627.0, 5395.0, 5690.0, 5376.0, 5507.0, 5485.0, 5446.0, 5543.0, 5404.0, 5719.0, 5324.0, 5673.0, 5513.0, 5463.0, 5465.0, 5625.0, 5684.0, 5363.0, 5428.0, 5287.0, 5606.0, 5320.0, 5411.0, 5678.0, 5559.0, 5704.0 (number of hits: 7)
5	5510	9	1	333	1	5580.0, 5392.0, 5484.0, 5473.0, 5255.0, 5711.0, 5521.0, 5554.0, 5403.0, 5528.0, 5661.0, 5512.0, 5483.0, 5308.0, 5277.0, 5602.0, 5694.0, 5479.0, 5449.0, 5699.0, 5494.0, 5715.0, 5495.0, 5675.0, 5655.0, 5552.0, 5428.0, 5427.0, 5681.0, 5278.0, 5359.0, 5486.0, 5329.0, 5285.0, 5558.0, 5505.0, 5295.0, 5288.0, 5363.0, 5341.0, 5553.0, 5333.0, 5638.0, 5562.0, 5391.0, 5551.0, 5549.0, 5377.0, 5420.0, 5422.0, 5411.0, 5523.0, 5712.0, 5456.0, 5653.0, 5666.0, 5448.0, 5561.0, 5414.0, 5592.0, 5281.0, 5351.0, 5658.0, 5339.0, 5453.0, 5569.0, 5684.0, 5451.0, 5289.0, 5670.0, 5541.0, 5574.0, 5362.0, 5256.0, 5595.0, 5718.0, 5623.0, 5340.0, 5550.0, 5407.0, 5354.0, 5585.0, 5567.0, 5356.0, 5335.0, 5607.0, 5698.0, 5687.0, 5672.0, 5279.0, 5336.0, 5471.0, 5635.0, 5559.0, 5682.0, 5321.0, 5502.0, 5506.0, 5596.0, 5323.0 (number of hits: 9)
6	5510	9	1	333	1	5609.0, 5359.0, 5558.0, 5459.0, 5397.0, 5614.0, 5439.0, 5431.0, 5566.0, 5382.0, 5611.0, 5681.0, 5618.0, 5462.0, 5648.0, 5377.0, 5316.0, 5678.0, 5501.0, 5587.0, 5432.0, 5560.0, 5710.0, 5646.0, 5335.0, 5610.0, 5299.0, 5669.0, 5653.0, 5353.0, 5480.0, 5546.0, 5498.0, 5549.0, 5654.0,

						5538.0, 5685.0, 5582.0, 5331.0, 5472.0, 5682.0, 5460.0, 5475.0, 5568.0, 5262.0, 5405.0, 5426.0, 5277.0, 5296.0, 5622.0, 5636.0, 5410.0, 5425.0, 5628.0, 5575.0, 5416.0, 5478.0, 5467.0, 5488.0, 5413.0, 5446.0, 5330.0, 5490.0, 5429.0, 5531.0, 5590.0, 5322.0, 5620.0, 5656.0, 5293.0, 5325.0, 5283.0, 5415.0, 5328.0, 5633.0, 5290.0, 5512.0, 5583.0, 5504.0, 5670.0, 5334.0, 5390.0, 5524.0, 5268.0, 5693.0, 5486.0, 5363.0, 5267.0, 5516.0, 5711.0, 5631.0, 5544.0, 5449.0, 5677.0, 5367.0, 5665.0, 5314.0, 5458.0, 5639.0, 5402.0 (number of hits: 6)
7	5510	9	1	333	1	5270.0, 5376.0, 5485.0, 5690.0, 5395.0, 5470.0, 5412.0, 5408.0, 5521.0, 5578.0, 5312.0, 5401.0, 5315.0, 5285.0, 5610.0, 5638.0, 5498.0, 5666.0, 5278.0, 5253.0, 5658.0, 5588.0, 5544.0, 5685.0, 5600.0, 5562.0, 5300.0, 5649.0, 5403.0, 5531.0, 5440.0, 5541.0, 5348.0, 5279.0, 5381.0, 5418.0, 5499.0, 5529.0, 5688.0, 5365.0, 5632.0, 5525.0, 5528.0, 5309.0, 5444.0, 5349.0, 5406.0, 5378.0, 5472.0, 5336.0, 5593.0, 5673.0, 5454.0, 5294.0, 5436.0, 5659.0, 5441.0, 5449.0, 5452.0, 5362.0, 5520.0, 5332.0, 5561.0, 5298.0, 5575.0, 5385.0, 5634.0, 5697.0, 5523.0, 5699.0, 5652.0, 5519.0, 5318.0, 5630.0, 5367.0, 5478.0, 5326.0, 5351.0, 5591.0, 5391.0, 5319.0, 5280.0, 5421.0, 5645.0, 5486.0, 5642.0, 5684.0, 5679.0, 5451.0, 5492.0, 5291.0, 5538.0, 5676.0, 5269.0, 5334.0, 5609.0, 5261.0, 5573.0, 5505.0, 5693.0 (number of hits: 10)
8	5510	9	1	333	1	5497.0, 5604.0, 5570.0, 5601.0, 5260.0, 5541.0, 5280.0, 5333.0, 5482.0, 5657.0, 5485.0, 5631.0, 5440.0, 5299.0, 5284.0, 5365.0, 5468.0, 5597.0, 5436.0, 5557.0, 5668.0, 5402.0, 5481.0, 5552.0, 5605.0, 5456.0, 5328.0, 5690.0, 5360.0, 5607.0, 5532.0, 5695.0, 5422.0, 5416.0, 5460.0, 5700.0, 5308.0, 5677.0, 5551.0, 5582.0, 5301.0, 5665.0, 5430.0, 5697.0, 5595.0, 5414.0, 5556.0, 5536.0, 5425.0, 5350.0, 5383.0, 5542.0, 5401.0, 5673.0, 5400.0, 5629.0, 5283.0, 5342.0, 5587.0, 5335.0, 5435.0, 5621.0, 5420.0, 5655.0, 5410.0, 5491.0, 5293.0, 5255.0, 5316.0, 5609.0, 5565.0, 5364.0, 5391.0, 5647.0, 5363.0, 5714.0, 5289.0, 5325.0, 5357.0, 5253.0, 5455.0, 5279.0, 5313.0, 5478.0, 5520.0, 5500.0, 5683.0, 5638.0, 5580.0, 5431.0, 5507.0, 5516.0, 5618.0, 5337.0, 5411.0, 5676.0, 5489.0, 5506.0, 5454.0, 5329.0 (number of hits: 7)
9	5510	9	1	333	1	5550.0, 5694.0, 5500.0, 5334.0, 5486.0, 5553.0, 5481.0, 5561.0, 5373.0, 5597.0, 5470.0, 5692.0, 5520.0, 5513.0, 5604.0,

						5544.0, 5686.0, 5412.0, 5682.0, 5298.0, 5537.0, 5543.0, 5269.0, 5512.0, 5714.0, 5706.0, 5493.0, 5472.0, 5548.0, 5296.0, 5558.0, 5479.0, 5291.0, 5602.0, 5270.0, 5487.0, 5299.0, 5648.0, 5365.0, 5643.0, 5639.0, 5348.0, 5375.0, 5267.0, 5689.0, 5461.0, 5260.0, 5606.0, 5448.0, 5339.0, 5318.0, 5258.0, 5655.0, 5401.0, 5388.0, 5441.0, 5465.0, 5669.0, 5616.0, 5519.0, 5565.0, 5389.0, 5716.0, 5525.0, 5568.0, 5474.0, 5625.0, 5362.0, 5408.0, 5527.0, 5451.0, 5691.0, 5687.0, 5491.0, 5631.0, 5698.0, 5444.0, 5674.0, 5442.0, 5359.0, 5325.0, 5576.0, 5349.0, 5586.0, 5425.0, 5618.0, 5454.0, 5342.0, 5595.0, 5658.0, 5666.0, 5499.0, 5431.0, 5429.0, 5340.0, 5458.0, 5504.0, 5482.0, 5262.0, 5319.0 (number of hits: 11)
10	5510	9	1	333	1	5536.0, 5349.0, 5326.0, 5593.0, 5583.0, 5568.0, 5283.0, 5646.0, 5493.0, 5395.0, 5275.0, 5280.0, 5425.0, 5566.0, 5464.0, 5682.0, 5314.0, 5558.0, 5310.0, 5373.0, 5661.0, 5262.0, 5468.0, 5659.0, 5610.0, 5402.0, 5483.0, 5381.0, 5400.0, 5299.0, 5514.0, 5699.0, 5601.0, 5307.0, 5289.0, 5602.0, 5680.0, 5500.0, 5636.0, 5341.0, 5306.0, 5649.0, 5653.0, 5286.0, 5662.0, 5707.0, 5440.0, 5338.0, 5711.0, 5554.0, 5455.0, 5559.0, 5355.0, 5270.0, 5461.0, 5478.0, 5570.0, 5393.0, 5626.0, 5346.0, 5668.0, 5378.0, 5691.0, 5603.0, 5548.0, 5292.0, 5551.0, 5317.0, 5334.0, 5459.0, 5596.0, 5415.0, 5663.0, 5344.0, 5701.0, 5353.0, 5564.0, 5686.0, 5723.0, 5475.0, 5517.0, 5684.0, 5594.0, 5251.0, 5674.0, 5390.0, 5274.0, 5506.0, 5713.0, 5469.0, 5697.0, 5313.0, 5639.0, 5347.0, 5489.0, 5621.0, 5576.0, 5642.0, 5304.0, 5534.0 (number of hits: 5)
11	5510	9	1	333	1	5609.0, 5623.0, 5567.0, 5441.0, 5562.0, 5522.0, 5292.0, 5647.0, 5715.0, 5660.0, 5610.0, 5596.0, 5688.0, 5287.0, 5473.0, 5542.0, 5361.0, 5502.0, 5406.0, 5269.0, 5254.0, 5376.0, 5392.0, 5266.0, 5483.0, 5432.0, 5516.0, 5475.0, 5490.0, 5253.0, 5316.0, 5472.0, 5553.0, 5564.0, 5260.0, 5261.0, 5358.0, 5390.0, 5367.0, 5607.0, 5543.0, 5444.0, 5585.0, 5572.0, 5574.0, 5347.0, 5629.0, 5282.0, 5704.0, 5533.0, 5277.0, 5460.0, 5631.0, 5672.0, 5295.0, 5673.0, 5599.0, 5565.0, 5554.0, 5251.0, 5414.0, 5496.0, 5387.0, 5278.0, 5274.0, 5493.0, 5267.0, 5459.0, 5340.0, 5691.0, 5664.0, 5536.0, 5608.0, 5399.0, 5388.0, 5523.0, 5703.0, 5710.0, 5362.0, 5606.0, 5351.0, 5511.0, 5405.0, 5675.0, 5332.0, 5612.0, 5605.0, 5322.0, 5507.0, 5449.0, 5352.0, 5284.0, 5568.0, 5508.0, 5296.0, 5453.0, 5307.0, 5283.0, 5457.0, 5719.0

						(number of hits: 9)
12	5510	9	1	333	1	5596.0, 5280.0, 5267.0, 5603.0, 5359.0, 5444.0, 5667.0, 5389.0, 5685.0, 5703.0, 5673.0, 5369.0, 5707.0, 5720.0, 5324.0, 5621.0, 5652.0, 5397.0, 5525.0, 5482.0, 5714.0, 5420.0, 5606.0, 5463.0, 5570.0, 5510.0, 5332.0, 5623.0, 5376.0, 5618.0, 5295.0, 5535.0, 5572.0, 5275.0, 5310.0, 5356.0, 5470.0, 5319.0, 5585.0, 5272.0, 5449.0, 5483.0, 5468.0, 5271.0, 5624.0, 5634.0, 5331.0, 5474.0, 5558.0, 5668.0, 5283.0, 5478.0, 5550.0, 5329.0, 5480.0, 5403.0, 5601.0, 5416.0, 5467.0, 5473.0, 5442.0, 5644.0, 5309.0, 5452.0, 5400.0, 5313.0, 5587.0, 5405.0, 5662.0, 5497.0, 5561.0, 5434.0, 5543.0, 5613.0, 5645.0, 5345.0, 5294.0, 5419.0, 5580.0, 5622.0, 5509.0, 5366.0, 5547.0, 5546.0, 5286.0, 5595.0, 5537.0, 5404.0, 5696.0, 5349.0, 5363.0, 5631.0, 5551.0, 5626.0, 5380.0, 5498.0, 5339.0, 5289.0, 5723.0, 5579.0 (number of hits: 5)
13	5510	9	1	333	1	5269.0, 5346.0, 5301.0, 5538.0, 5696.0, 5319.0, 5574.0, 5571.0, 5516.0, 5657.0, 5502.0, 5557.0, 5439.0, 5550.0, 5722.0, 5359.0, 5706.0, 5599.0, 5388.0, 5541.0, 5663.0, 5295.0, 5358.0, 5302.0, 5413.0, 5300.0, 5489.0, 5289.0, 5400.0, 5689.0, 5501.0, 5476.0, 5680.0, 5287.0, 5641.0, 5448.0, 5315.0, 5695.0, 5603.0, 5527.0, 5312.0, 5619.0, 5385.0, 5713.0, 5278.0, 5526.0, 5337.0, 5380.0, 5410.0, 5318.0, 5556.0, 5275.0, 5253.0, 5630.0, 5454.0, 5291.0, 5320.0, 5711.0, 5395.0, 5351.0, 5322.0, 5626.0, 5409.0, 5444.0, 5384.0, 5440.0, 5529.0, 5638.0, 5580.0, 5656.0, 5348.0, 5624.0, 5714.0, 5653.0, 5535.0, 5505.0, 5512.0, 5330.0, 5353.0, 5273.0, 5515.0, 5602.0, 5396.0, 5333.0, 5705.0, 5415.0, 5370.0, 5283.0, 5707.0, 5406.0, 5425.0, 5566.0, 5391.0, 5549.0, 5655.0, 5688.0, 5462.0, 5525.0, 5478.0, 5678.0 (number of hits: 9)
14	5510	9	1	333	1	5496.0, 5651.0, 5353.0, 5262.0, 5519.0, 5255.0, 5339.0, 5609.0, 5276.0, 5614.0, 5562.0, 5362.0, 5522.0, 5699.0, 5369.0, 5624.0, 5707.0, 5289.0, 5446.0, 5510.0, 5653.0, 5321.0, 5403.0, 5288.0, 5441.0, 5552.0, 5465.0, 5298.0, 5491.0, 5543.0, 5485.0, 5320.0, 5436.0, 5681.0, 5685.0, 5412.0, 5580.0, 5397.0, 5686.0, 5358.0, 5458.0, 5692.0, 5571.0, 5508.0, 5520.0, 5641.0, 5337.0, 5292.0, 5712.0, 5526.0, 5675.0, 5342.0, 5463.0, 5599.0, 5720.0, 5625.0, 5535.0, 5416.0, 5331.0, 5476.0, 5617.0, 5628.0, 5328.0, 5636.0, 5390.0, 5459.0, 5721.0, 5670.0, 5432.0, 5482.0, 5631.0, 5473.0, 5615.0, 5464.0, 5396.0, 5443.0, 5306.0, 5480.0, 5622.0, 5404.0,

						5421.0, 5649.0, 5537.0, 5643.0, 5311.0, 5312.0, 5524.0, 5322.0, 5548.0, 5498.0, 5417.0, 5662.0, 5359.0, 5450.0, 5600.0, 5453.0, 5704.0, 5377.0, 5275.0, 5558.0 (number of hits: 10)
15	5510	9	1	333	1	5433.0, 5452.0, 5702.0, 5398.0, 5690.0, 5672.0, 5269.0, 5350.0, 5263.0, 5617.0, 5587.0, 5558.0, 5300.0, 5360.0, 5336.0, 5275.0, 5417.0, 5635.0, 5429.0, 5598.0, 5304.0, 5696.0, 5693.0, 5712.0, 5527.0, 5718.0, 5650.0, 5654.0, 5568.0, 5555.0, 5677.0, 5305.0, 5335.0, 5589.0, 5711.0, 5553.0, 5615.0, 5290.0, 5688.0, 5691.0, 5375.0, 5395.0, 5419.0, 5389.0, 5564.0, 5648.0, 5715.0, 5518.0, 5316.0, 5640.0, 5547.0, 5447.0, 5611.0, 5489.0, 5402.0, 5358.0, 5343.0, 5405.0, 5324.0, 5348.0, 5597.0, 5674.0, 5637.0, 5631.0, 5623.0, 5380.0, 5435.0, 5377.0, 5320.0, 5583.0, 5321.0, 5450.0, 5526.0, 5281.0, 5683.0, 5521.0, 5618.0, 5703.0, 5534.0, 5277.0, 5349.0, 5441.0, 5658.0, 5560.0, 5627.0, 5354.0, 5363.0, 5483.0, 5296.0, 5298.0, 5517.0, 5503.0, 5682.0, 5486.0, 5260.0, 5449.0, 5329.0, 5332.0, 5252.0, 5426.0 (number of hits: 6)
16	5510	9	1	333	1	5571.0, 5685.0, 5719.0, 5493.0, 5564.0, 5288.0, 5650.0, 5314.0, 5676.0, 5405.0, 5604.0, 5415.0, 5262.0, 5444.0, 5472.0, 5447.0, 5321.0, 5476.0, 5429.0, 5548.0, 5365.0, 5452.0, 5532.0, 5672.0, 5343.0, 5494.0, 5315.0, 5478.0, 5442.0, 5623.0, 5453.0, 5412.0, 5437.0, 5500.0, 5439.0, 5504.0, 5252.0, 5647.0, 5610.0, 5586.0, 5597.0, 5636.0, 5450.0, 5286.0, 5463.0, 5398.0, 5583.0, 5316.0, 5693.0, 5330.0, 5677.0, 5513.0, 5648.0, 5347.0, 5374.0, 5540.0, 5624.0, 5711.0, 5477.0, 5523.0, 5584.0, 5556.0, 5506.0, 5541.0, 5557.0, 5549.0, 5570.0, 5432.0, 5713.0, 5562.0, 5585.0, 5708.0, 5534.0, 5318.0, 5377.0, 5486.0, 5302.0, 5468.0, 5575.0, 5680.0, 5596.0, 5333.0, 5603.0, 5645.0, 5266.0, 5342.0, 5335.0, 5268.0, 5448.0, 5306.0, 5351.0, 5485.0, 5669.0, 5694.0, 5550.0, 5369.0, 5537.0, 5368.0, 5390.0, 5608.0 (number of hits: 7)
17	5510	9	1	333	1	5300.0, 5713.0, 5404.0, 5365.0, 5701.0, 5663.0, 5431.0, 5547.0, 5709.0, 5339.0, 5433.0, 5469.0, 5586.0, 5532.0, 5280.0, 5548.0, 5533.0, 5514.0, 5500.0, 5556.0, 5320.0, 5343.0, 5672.0, 5465.0, 5557.0, 5591.0, 5511.0, 5408.0, 5579.0, 5407.0, 5274.0, 5311.0, 5410.0, 5332.0, 5558.0, 5399.0, 5549.0, 5576.0, 5669.0, 5470.0, 5413.0, 5336.0, 5580.0, 5377.0, 5478.0, 5538.0, 5670.0, 5373.0, 5600.0, 5526.0, 5534.0, 5502.0, 5319.0, 5485.0, 5652.0, 5710.0, 5513.0, 5626.0, 5313.0, 5283.0,

						5657.0, 5495.0, 5397.0, 5664.0, 5612.0, 5554.0, 5505.0, 5691.0, 5305.0, 5442.0, 5662.0, 5642.0, 5685.0, 5705.0, 5492.0, 5425.0, 5623.0, 5455.0, 5678.0, 5621.0, 5346.0, 5417.0, 5632.0, 5461.0, 5383.0, 5351.0, 5629.0, 5302.0, 5278.0, 5628.0, 5641.0, 5708.0, 5598.0, 5271.0, 5422.0, 5379.0, 5369.0, 5665.0, 5400.0, 5265.0 (number of hits: 9)
18	5510	9	1	333	1	5617.0, 5589.0, 5338.0, 5462.0, 5529.0, 5490.0, 5548.0, 5374.0, 5573.0, 5575.0, 5606.0, 5647.0, 5533.0, 5352.0, 5381.0, 5372.0, 5583.0, 5652.0, 5334.0, 5550.0, 5618.0, 5263.0, 5393.0, 5479.0, 5306.0, 5484.0, 5496.0, 5560.0, 5395.0, 5318.0, 5660.0, 5577.0, 5655.0, 5650.0, 5605.0, 5310.0, 5693.0, 5626.0, 5587.0, 5297.0, 5408.0, 5594.0, 5378.0, 5415.0, 5541.0, 5535.0, 5520.0, 5335.0, 5710.0, 5376.0, 5570.0, 5522.0, 5274.0, 5653.0, 5627.0, 5643.0, 5358.0, 5288.0, 5298.0, 5706.0, 5268.0, 5443.0, 5580.0, 5576.0, 5525.0, 5276.0, 5259.0, 5485.0, 5279.0, 5371.0, 5317.0, 5494.0, 5608.0, 5407.0, 5442.0, 5508.0, 5315.0, 5456.0, 5301.0, 5564.0, 5476.0, 5466.0, 5383.0, 5398.0, 5388.0, 5325.0, 5444.0, 5619.0, 5599.0, 5339.0, 5674.0, 5390.0, 5634.0, 5380.0, 5489.0, 5640.0, 5437.0, 5414.0, 5458.0, 5435.0 (number of hits: 6)
19	5510	9	1	333	1	5357.0, 5518.0, 5722.0, 5495.0, 5574.0, 5499.0, 5367.0, 5706.0, 5626.0, 5401.0, 5539.0, 5628.0, 5266.0, 5564.0, 5405.0, 5491.0, 5399.0, 5665.0, 5671.0, 5375.0, 5423.0, 5514.0, 5426.0, 5597.0, 5708.0, 5685.0, 5432.0, 5352.0, 5403.0, 5435.0, 5321.0, 5537.0, 5274.0, 5719.0, 5377.0, 5418.0, 5410.0, 5677.0, 5308.0, 5501.0, 5511.0, 5559.0, 5312.0, 5548.0, 5304.0, 5373.0, 5294.0, 5654.0, 5315.0, 5651.0, 5460.0, 5659.0, 5424.0, 5694.0, 5251.0, 5437.0, 5252.0, 5268.0, 5298.0, 5345.0, 5421.0, 5325.0, 5408.0, 5484.0, 5697.0, 5381.0, 5328.0, 5599.0, 5254.0, 5624.0, 5502.0, 5425.0, 5340.0, 5406.0, 5359.0, 5285.0, 5492.0, 5613.0, 5699.0, 5348.0, 5641.0, 5364.0, 5465.0, 5478.0, 5448.0, 5429.0, 5692.0, 5361.0, 5593.0, 5516.0, 5602.0, 5603.0, 5262.0, 5326.0, 5464.0, 5617.0, 5667.0, 5604.0, 5589.0, 5688.0 (number of hits: 10)
20	5510	9	1	333	1	5342.0, 5679.0, 5539.0, 5650.0, 5626.0, 5672.0, 5252.0, 5623.0, 5474.0, 5668.0, 5715.0, 5269.0, 5388.0, 5577.0, 5584.0, 5433.0, 5553.0, 5602.0, 5638.0, 5548.0, 5596.0, 5666.0, 5307.0, 5371.0, 5473.0, 5605.0, 5695.0, 5450.0, 5492.0, 5521.0, 5491.0, 5436.0, 5337.0, 5597.0, 5720.0, 5325.0, 5654.0, 5280.0, 5459.0, 5535.0,

						5416.0, 5344.0, 5603.0, 5645.0, 5447.0, 5381.0, 5574.0, 5569.0, 5710.0, 5424.0, 5326.0, 5610.0, 5320.0, 5558.0, 5684.0, 5499.0, 5314.0, 5279.0, 5615.0, 5315.0, 5258.0, 5480.0, 5485.0, 5421.0, 5536.0, 5410.0, 5469.0, 5413.0, 5531.0, 5604.0, 5259.0, 5607.0, 5277.0, 5552.0, 5718.0, 5290.0, 5404.0, 5329.0, 5632.0, 5587.0, 5254.0, 5617.0, 5600.0, 5579.0, 5503.0, 5440.0, 5462.0, 5302.0, 5437.0, 5613.0, 5677.0, 5373.0, 5593.0, 5257.0, 5619.0, 5538.0, 5633.0, 5301.0, 5628.0, 5511.0 (number of hits: 6)
21	5510	9	1	333	1	5432.0, 5438.0, 5639.0, 5467.0, 5637.0, 5531.0, 5403.0, 5309.0, 5360.0, 5477.0, 5563.0, 5476.0, 5513.0, 5328.0, 5286.0, 5334.0, 5679.0, 5577.0, 5587.0, 5251.0, 5542.0, 5336.0, 5540.0, 5571.0, 5562.0, 5484.0, 5358.0, 5674.0, 5465.0, 5332.0, 5307.0, 5463.0, 5700.0, 5520.0, 5450.0, 5449.0, 5377.0, 5598.0, 5503.0, 5617.0, 5446.0, 5464.0, 5718.0, 5631.0, 5270.0, 5342.0, 5295.0, 5442.0, 5620.0, 5510.0, 5419.0, 5543.0, 5456.0, 5333.0, 5647.0, 5591.0, 5472.0, 5595.0, 5378.0, 5532.0, 5400.0, 5478.0, 5534.0, 5362.0, 5330.0, 5596.0, 5619.0, 5536.0, 5602.0, 5514.0, 5455.0, 5406.0, 5680.0, 5404.0, 5495.0, 5530.0, 5608.0, 5615.0, 5669.0, 5437.0, 5410.0, 5292.0, 5471.0, 5689.0, 5254.0, 5612.0, 5706.0, 5645.0, 5708.0, 5381.0, 5528.0, 5668.0, 5275.0, 5429.0, 5462.0, 5483.0, 5459.0, 5354.0, 5681.0, 5380.0 (number of hits: 7)
22	5510	9	1	333	1	5549.0, 5435.0, 5517.0, 5278.0, 5512.0, 5259.0, 5375.0, 5480.0, 5665.0, 5440.0, 5412.0, 5608.0, 5590.0, 5446.0, 5545.0, 5485.0, 5532.0, 5669.0, 5422.0, 5343.0, 5274.0, 5510.0, 5353.0, 5676.0, 5565.0, 5294.0, 5691.0, 5443.0, 5379.0, 5473.0, 5706.0, 5696.0, 5392.0, 5588.0, 5535.0, 5638.0, 5347.0, 5585.0, 5469.0, 5710.0, 5424.0, 5251.0, 5506.0, 5631.0, 5487.0, 5580.0, 5380.0, 5419.0, 5444.0, 5481.0, 5307.0, 5295.0, 5382.0, 5671.0, 5596.0, 5345.0, 5466.0, 5364.0, 5421.0, 5634.0, 5456.0, 5612.0, 5358.0, 5656.0, 5316.0, 5370.0, 5432.0, 5604.0, 5331.0, 5291.0, 5699.0, 5569.0, 5400.0, 5556.0, 5587.0, 5389.0, 5627.0, 5369.0, 5460.0, 5527.0, 5533.0, 5348.0, 5354.0, 5275.0, 5346.0, 5674.0, 5613.0, 5530.0, 5605.0, 5649.0, 5529.0, 5675.0, 5376.0, 5297.0, 5623.0, 5640.0, 5268.0, 5318.0, 5298.0, 5429.0 (number of hits: 5)
23	5510	9	1	333	1	5520.0, 5474.0, 5390.0, 5703.0, 5423.0, 5354.0, 5495.0, 5503.0, 5550.0, 5666.0, 5681.0, 5554.0, 5562.0, 5670.0, 5552.0, 5711.0, 5330.0, 5505.0, 5655.0, 5515.0,

						5449.0, 5492.0, 5632.0, 5518.0, 5507.0, 5635.0, 5588.0, 5414.0, 5491.0, 5315.0, 5631.0, 5451.0, 5308.0, 5284.0, 5592.0, 5573.0, 5437.0, 5357.0, 5619.0, 5654.0, 5685.0, 5612.0, 5558.0, 5340.0, 5705.0, 5268.0, 5548.0, 5689.0, 5270.0, 5630.0, 5290.0, 5258.0, 5413.0, 5594.0, 5339.0, 5649.0, 5529.0, 5291.0, 5288.0, 5586.0, 5608.0, 5574.0, 5526.0, 5422.0, 5304.0, 5447.0, 5295.0, 5636.0, 5575.0, 5318.0, 5323.0, 5640.0, 5279.0, 5417.0, 5596.0, 5485.0, 5269.0, 5580.0, 5412.0, 5349.0, 5601.0, 5566.0, 5369.0, 5606.0, 5470.0, 5425.0, 5406.0, 5609.0, 5578.0, 5465.0, 5303.0, 5643.0, 5307.0, 5456.0, 5411.0, 5345.0, 5617.0, 5342.0, 5708.0, 5626.0 (number of hits: 10)
24	5510	9	1	333	1	5470.0, 5512.0, 5430.0, 5323.0, 5290.0, 5561.0, 5462.0, 5503.0, 5670.0, 5651.0, 5617.0, 5438.0, 5401.0, 5596.0, 5550.0, 5311.0, 5546.0, 5342.0, 5296.0, 5632.0, 5341.0, 5307.0, 5507.0, 5701.0, 5683.0, 5502.0, 5639.0, 5286.0, 5459.0, 5614.0, 5519.0, 5556.0, 5360.0, 5631.0, 5684.0, 5326.0, 5652.0, 5697.0, 5494.0, 5603.0, 5525.0, 5689.0, 5696.0, 5718.0, 5719.0, 5557.0, 5622.0, 5289.0, 5578.0, 5428.0, 5698.0, 5496.0, 5279.0, 5449.0, 5514.0, 5523.0, 5571.0, 5648.0, 5331.0, 5298.0, 5277.0, 5274.0, 5456.0, 5399.0, 5374.0, 5582.0, 5304.0, 5343.0, 5650.0, 5419.0, 5444.0, 5340.0, 5661.0, 5681.0, 5485.0, 5615.0, 5319.0, 5656.0, 5591.0, 5466.0, 5460.0, 5709.0, 5377.0, 5478.0, 5673.0, 5676.0, 5575.0, 5555.0, 5634.0, 5292.0, 5310.0, 5295.0, 5505.0, 5723.0, 5627.0, 5587.0, 5581.0, 5682.0, 5380.0, 5293.0 (number of hits: 11)
25	5510	9	1	333	1	5565.0, 5251.0, 5426.0, 5671.0, 5534.0, 5324.0, 5723.0, 5299.0, 5594.0, 5298.0, 5491.0, 5318.0, 5626.0, 5434.0, 5535.0, 5432.0, 5300.0, 5561.0, 5462.0, 5395.0, 5567.0, 5291.0, 5336.0, 5603.0, 5273.0, 5617.0, 5275.0, 5392.0, 5560.0, 5282.0, 5659.0, 5601.0, 5358.0, 5254.0, 5313.0, 5517.0, 5453.0, 5512.0, 5431.0, 5394.0, 5669.0, 5537.0, 5519.0, 5449.0, 5706.0, 5489.0, 5428.0, 5521.0, 5628.0, 5634.0, 5563.0, 5503.0, 5265.0, 5643.0, 5252.0, 5719.0, 5334.0, 5624.0, 5679.0, 5357.0, 5423.0, 5389.0, 5579.0, 5286.0, 5256.0, 5722.0, 5386.0, 5648.0, 5555.0, 5546.0, 5554.0, 5327.0, 5559.0, 5664.0, 5721.0, 5429.0, 5507.0, 5340.0, 5632.0, 5668.0, 5333.0, 5465.0, 5283.0, 5332.0, 5571.0, 5667.0, 5583.0, 5463.0, 5344.0, 5317.0, 5698.0, 5550.0, 5370.0, 5703.0, 5348.0, 5498.0, 5331.0, 5406.0, 5310.0, 5341.0 (number of hits: 8)

26	5510	9	1	333	1	5615.0, 5432.0, 5570.0, 5669.0, 5723.0, 5501.0, 5311.0, 5361.0, 5377.0, 5642.0, 5326.0, 5479.0, 5628.0, 5255.0, 5283.0, 5257.0, 5677.0, 5319.0, 5523.0, 5347.0, 5416.0, 5382.0, 5322.0, 5482.0, 5253.0, 5287.0, 5491.0, 5409.0, 5513.0, 5452.0, 5608.0, 5321.0, 5337.0, 5292.0, 5343.0, 5290.0, 5348.0, 5569.0, 5519.0, 5585.0, 5505.0, 5447.0, 5672.0, 5493.0, 5488.0, 5437.0, 5289.0, 5601.0, 5366.0, 5372.0, 5551.0, 5497.0, 5464.0, 5498.0, 5404.0, 5425.0, 5363.0, 5262.0, 5520.0, 5656.0, 5600.0, 5562.0, 5602.0, 5694.0, 5544.0, 5468.0, 5700.0, 5716.0, 5474.0, 5587.0, 5330.0, 5555.0, 5646.0, 5638.0, 5657.0, 5653.0, 5470.0, 5684.0, 5284.0, 5303.0, 5630.0, 5637.0, 5423.0, 5655.0, 5524.0, 5605.0, 5473.0, 5599.0, 5440.0, 5591.0, 5486.0, 5526.0, 5264.0, 5367.0, 5580.0, 5317.0, 5712.0, 5699.0, 5515.0, 5561.0 (number of hits: 13)
27	5510	9	1	333	1	5481.0, 5344.0, 5592.0, 5266.0, 5385.0, 5353.0, 5477.0, 5584.0, 5669.0, 5705.0, 5575.0, 5451.0, 5646.0, 5272.0, 5636.0, 5303.0, 5470.0, 5431.0, 5267.0, 5624.0, 5365.0, 5512.0, 5416.0, 5719.0, 5278.0, 5548.0, 5381.0, 5661.0, 5558.0, 5356.0, 5337.0, 5582.0, 5291.0, 5698.0, 5566.0, 5298.0, 5428.0, 5509.0, 5302.0, 5468.0, 5671.0, 5264.0, 5600.0, 5687.0, 5274.0, 5392.0, 5338.0, 5268.0, 5363.0, 5519.0, 5433.0, 5514.0, 5415.0, 5400.0, 5547.0, 5673.0, 5666.0, 5540.0, 5405.0, 5494.0, 5466.0, 5407.0, 5605.0, 5713.0, 5507.0, 5518.0, 5444.0, 5417.0, 5273.0, 5463.0, 5343.0, 5601.0, 5277.0, 5576.0, 5515.0, 5658.0, 5588.0, 5285.0, 5275.0, 5377.0, 5715.0, 5286.0, 5425.0, 5517.0, 5284.0, 5259.0, 5368.0, 5505.0, 5295.0, 5506.0, 5398.0, 5395.0, 5480.0, 5563.0, 5357.0, 5613.0, 5626.0, 5511.0, 5391.0, 5334.0 (number of hits: 12)
28	5510	9	1	333	1	5603.0, 5296.0, 5489.0, 5689.0, 5254.0, 5274.0, 5487.0, 5402.0, 5545.0, 5572.0, 5639.0, 5409.0, 5458.0, 5531.0, 5287.0, 5569.0, 5701.0, 5521.0, 5670.0, 5614.0, 5585.0, 5327.0, 5308.0, 5345.0, 5644.0, 5713.0, 5376.0, 5360.0, 5317.0, 5285.0, 5676.0, 5431.0, 5620.0, 5253.0, 5313.0, 5550.0, 5264.0, 5272.0, 5491.0, 5578.0, 5523.0, 5539.0, 5588.0, 5347.0, 5594.0, 5336.0, 5633.0, 5663.0, 5435.0, 5312.0, 5413.0, 5378.0, 5271.0, 5318.0, 5511.0, 5706.0, 5298.0, 5406.0, 5430.0, 5461.0, 5628.0, 5589.0, 5634.0, 5288.0, 5425.0, 5323.0, 5534.0, 5386.0, 5530.0, 5282.0, 5591.0, 5629.0, 5678.0, 5538.0, 5598.0, 5708.0, 5717.0, 5344.0, 5334.0, 5436.0, 5331.0, 5410.0, 5507.0, 5404.0, 5498.0,

						5524.0, 5377.0, 5640.0, 5655.0, 5649.0, 5387.0, 5520.0, 5328.0, 5434.0, 5270.0, 5309.0, 5637.0, 5448.0, 5393.0, 5526.0 (number of hits: 9)
29	5510	9	1	333	1	5305.0, 5618.0, 5499.0, 5378.0, 5494.0, 5446.0, 5476.0, 5484.0, 5319.0, 5556.0, 5451.0, 5449.0, 5477.0, 5266.0, 5286.0, 5604.0, 5370.0, 5438.0, 5275.0, 5412.0, 5474.0, 5545.0, 5309.0, 5334.0, 5284.0, 5587.0, 5375.0, 5669.0, 5470.0, 5304.0, 5403.0, 5575.0, 5263.0, 5704.0, 5314.0, 5493.0, 5561.0, 5537.0, 5595.0, 5701.0, 5723.0, 5455.0, 5623.0, 5528.0, 5312.0, 5282.0, 5339.0, 5354.0, 5482.0, 5337.0, 5410.0, 5551.0, 5261.0, 5517.0, 5420.0, 5513.0, 5439.0, 5644.0, 5497.0, 5532.0, 5262.0, 5306.0, 5289.0, 5331.0, 5425.0, 5421.0, 5490.0, 5350.0, 5559.0, 5345.0, 5485.0, 5351.0, 5472.0, 5486.0, 5462.0, 5302.0, 5631.0, 5382.0, 5276.0, 5690.0, 5467.0, 5531.0, 5324.0, 5636.0, 5379.0, 5676.0, 5668.0, 5586.0, 5316.0, 5524.0, 5373.0, 5359.0, 5547.0, 5625.0, 5635.0, 5307.0, 5323.0, 5705.0, 5330.0, 5615.0 (number of hits: 8)
30	5510	9	1	333	1	5576.0, 5424.0, 5400.0, 5328.0, 5503.0, 5689.0, 5511.0, 5714.0, 5711.0, 5324.0, 5572.0, 5335.0, 5697.0, 5720.0, 5498.0, 5304.0, 5577.0, 5453.0, 5570.0, 5624.0, 5586.0, 5594.0, 5270.0, 5504.0, 5583.0, 5438.0, 5450.0, 5701.0, 5516.0, 5628.0, 5525.0, 5340.0, 5409.0, 5524.0, 5574.0, 5502.0, 5433.0, 5442.0, 5363.0, 5470.0, 5627.0, 5314.0, 5473.0, 5590.0, 5447.0, 5642.0, 5401.0, 5296.0, 5309.0, 5437.0, 5670.0, 5560.0, 5610.0, 5678.0, 5534.0, 5302.0, 5378.0, 5467.0, 5461.0, 5669.0, 5491.0, 5494.0, 5322.0, 5377.0, 5362.0, 5375.0, 5549.0, 5293.0, 5258.0, 5289.0, 5344.0, 5617.0, 5364.0, 5436.0, 5295.0, 5463.0, 5699.0, 5663.0, 5512.0, 5359.0, 5651.0, 5430.0, 5347.0, 5373.0, 5522.0, 5551.0, 5501.0, 5456.0, 5505.0, 5417.0, 5254.0, 5329.0, 5542.0, 5454.0, 5662.0, 5708.0, 5316.0, 5521.0, 5262.0, 5612.0 (number of hits: 15)

5530 MHz, 80 MHz Bandwidth

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1A/1B	30	100 %	60%	Pass
Type 2	30	100 %	60%	Pass
Type 3	30	100 %	60%	Pass
Type 4	30	100 %	60%	Pass
Aggregate (Type1 to 4)	120	100 %	80%	Pass
Type 5	30	96.67 %	80%	Pass
Type 6	30	100 %	70%	Pass

Please refer to the following statistical tables:

5290 MHz, 80 MHz Bandwidth

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

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5530	81	1	658	1
2	5530	65	1	818	1
3	5530	67	1	798	1
4	5530	78	1	678	1
5	5530	63	1	838	1
6	5530	86	1	618	1
7	5530	61	1	878	1
8	5530	95	1	558	1
9	5530	74	1	718	1
10	5530	76	1	698	1
11	5530	18	1	3066	1
12	5530	58	1	918	1
13	5530	92	1	578	1
14	5530	70	1	758	1
15	5530	57	1	938	1
16	5530	25	1	2192	1
17	5530	27	1	2023	1
18	5530	38	1	1392	1
19	5530	25	1	2131	1
20	5530	55	1	974	1
21	5530	97	1	549	1
22	5530	25	1	2115	1
23	5530	29	1	1843	1
24	5530	27	1	1999	1
25	5530	18	1	2952	1
26	5530	25	1	2175	1
27	5530	59	1	909	1
28	5530	58	1	920	1
29	5530	24	1	2220	1
30	5530	23	1	2347	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	5530	23	3.2	193	1
2	5530	26	2	209	1
3	5530	26	3.6	219	1
4	5530	29	4.2	202	1
5	5530	24	3.8	205	1
6	5530	24	4	197	1
7	5530	23	2.1	214	1
8	5530	23	1.6	191	1
9	5530	26	1.6	205	1
10	5530	25	3.3	204	1
11	5530	25	2.3	191	1
12	5530	25	4.4	162	1
13	5530	23	3.5	201	1
14	5530	23	5	153	1
15	5530	24	4	186	1
16	5530	24	3.3	183	1
17	5530	28	4.3	206	1
18	5530	28	3.4	185	1
19	5530	28	2.6	162	1
20	5530	28	2	152	1
21	5530	26	2.8	162	1
22	5530	23	4.9	198	1
23	5530	25	4.4	211	1
24	5530	26	1.8	174	1
25	5530	24	3.9	183	1
26	5530	29	1.8	203	1
27	5530	27	4.7	167	1
28	5530	23	1.6	195	1
29	5530	23	1	171	1
30	5530	27	3.4	188	1
Detection Percentage: 100 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5530	17	6.4	484	1
2	5530	17	8	369	1
3	5530	17	10	493	1
4	5530	16	8.9	267	1
5	5530	17	9	500	1
6	5530	17	8.8	271	1
7	5530	17	9.3	370	1
8	5530	17	6.7	294	1
9	5530	18	8.6	336	1
10	5530	16	7.3	416	1
11	5530	16	7.1	411	1
12	5530	17	7.4	344	1
13	5530	17	8.2	431	1
14	5530	18	6.9	235	1
15	5530	17	8.8	351	1
16	5530	16	9.5	425	1
17	5530	17	9.2	309	1
18	5530	17	9.8	338	1
19	5530	16	9.1	253	1
20	5530	17	9.8	201	1
21	5530	17	9.5	224	1
22	5530	18	9	466	1
23	5530	17	9.3	481	1
24	5530	16	9.7	303	1
25	5530	16	9.9	389	1
26	5530	18	8.7	458	1
27	5530	16	6.5	407	1
28	5530	18	9.1	351	1
29	5530	18	6.2	437	1
30	5530	16	8.2	422	1
Detection Percentage: 100 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5530	13	17.8	373	1
2	5530	16	15	209	1
3	5530	15	11.2	420	1
4	5530	12	14.1	382	1
5	5530	15	17.6	408	1
6	5530	15	19.3	286	1
7	5530	14	15.6	250	1
8	5530	14	19.5	480	1
9	5530	13	19	229	1
10	5530	15	16	377	1
11	5530	13	12.6	491	1
12	5530	13	12.4	477	1
13	5530	13	16.9	298	1
14	5530	13	17.8	297	1
15	5530	15	13.4	339	1
16	5530	12	14.6	493	1
17	5530	12	16.2	365	1
18	5530	15	12.7	458	1
19	5530	13	18.7	321	1
20	5530	15	17.9	250	1
21	5530	12	15.6	495	1
22	5530	13	19.8	356	1
23	5530	14	19.9	338	1
24	5530	14	15.4	336	1
25	5530	14	17.5	391	1
26	5530	13	16.1	295	1
27	5530	12	17	380	1
28	5530	16	18.2	348	1
29	5530	15	16.2	399	1
30	5530	12	15	261	1
Detection Percentage: 100 % (>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	5498.2	0
12	5495.0	1
13	5495.8	1
14	5493.0	1
15	5493.8	1
16	5497.4	1
17	5493.8	1
18	5496.2	1
19	5499.0	1
20	5495.4	1
21	5564.6	1
22	5566.2	1
23	5562.6	1
24	5566.2	1
25	5565.8	1
26	5564.6	1
27	5562.6	1
28	5567.0	1
29	5564.2	1
30	5563.0	1
Detection Percentage: 96.67% (>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	10	53.6	1710		0.204713	1
1	1	10	62.8			1.408911	
2	3	10	70.5	1601	1656	1.502879	
3	2	10	60.3	1098		2.503503	
4	2	10	77.1	1132		3.23521	
5	1	10	91.8			4.292956	
6	2	10	50.4	1341		5.23037	
7	2	10	74	1930		5.538425	
8	2	10	55.3	1638		6.094375	
9	1	10	57.3			7.462713	
10	2	10	77.4	1809		7.849934	
11	1	10	64.5			8.61073	
12	2	10	50.5	1623		9.471625	
13	2	10	93.5	1655		10.184723	
14	1	10	53.9			10.875773	
15	1	10	62.1			11.410933	

Bin5 Statistics 2

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	8	68.7			0.183534	1
1	2	8	88.1	1460		1.419672	
2	2	8	88.8	1134		1.992469	
3	1	8	53.1			2.900123	
4	2	8	59.9	1195		3.196739	
5	2	8	89.9	1684		3.877477	
6	3	8	76.4	1255	1044	4.896344	
7	2	8	52.2	1194		5.801202	
8	1	8	93.1			6.456881	
9	2	8	92.5	1115		7.389757	
10	3	8	90	1863	1882	7.513	
11	1	8	69.4			8.637938	
12	3	8	73.8	1986	1946	9.042449	
13	2	8	64.7	1899		10.033177	
14	2	8	82.1	1566		10.808385	
15	2	8	95.3	1360		11.772828	

Bin5 Statistics 3

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	16	83.6			0.643414	1
1	2	16	70.2	1512		1.462713	
2	1	16	98.7			1.722009	
3	1	16	94.1			2.521109	
4	2	16	57.3	1284		3.646698	
5	2	16	93.3	1590		4.248025	
6	1	16	77.5			5.214734	
7	2	16	95.3	1002		6.307308	
8	2	16	55.6	1325		6.83165	
9	2	16	72.7	1433		7.628599	
10	2	16	89.5	1691		8.739107	
11	2	16	88.5	1452		8.817615	
12	3	16	50.1	1855	1633	9.918522	
13	3	16	53.3	1271	1142	10.661065	
14	3	16	96.4	1789	1804	11.42319	

Bin5 Statistics 4

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	8	77.7	1051		0.521694	1
1	3	8	73.5	1214	1469	1.354565	
2	2	8	57.4	1728		1.748873	
3	2	8	59	1115		3.387486	
4	1	8	73.8			3.493608	
5	2	8	74.9	1763		4.579071	
6	1	8	78.7			5.527918	
7	2	8	75.1	1429		6.258798	
8	2	8	77.7	1521		7.150372	
9	1	8	61.9			8.167461	
10	1	8	67.9			9.276584	
11	2	8	98.9	1103		9.539987	
12	2	8	89.3	1297		10.68153	
13	3	8	54.4	1604	1262	11.278923	

Bin5 Statistics 5

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	7	52.8			0.358493	1
1	1	7	94.9			1.43998	
2	3	7	63.9	1568	1915	2.166059	
3	2	7	85.9	1836		3.111846	
4	1	7	89.6			3.784319	
5	2	7	65.7	1764		5.066306	
6	2	7	72.5	1430		5.68494	
7	2	7	67	1570		6.466366	
8	2	7	91.1	1637		7.140602	
9	2	7	56.3	1153		8.124539	
10	3	7	92.4	1709	1282	8.804949	
11	2	7	88	1108		10.107773	
12	3	7	84.8	1952	1148	10.985117	
13	2	7	85.7	1128		11.474183	

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	16	75.2	1389	1843	0.157007	1
1	3	16	58.4	1062	1151	1.14037	
2	3	16	50.6	1242	1863	2.230732	
3	2	16	68.9	1814		3.327511	
4	2	16	51.7	1273		3.713697	
5	2	16	89.2	1692		5.359495	
6	3	16	60.9	1826	1350	6.34566	
7	2	16	70.1	1328		7.350235	
8	3	16	96.7	1631	1009	8.124225	
9	3	16	53.4	1585	1377	8.566753	
10	2	16	58.5	1255		10.1363	
11	1	16	90.3			10.180868	
12	3	16	66.7	1206	1983	11.844082	

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	6	69.5	1902	1762	1.059221	1
1	3	6	71	1887	1993	1.528345	
2	2	6	81.4	1664		3.031959	
3	2	6	78.1	1095		4.072201	
4	2	6	85.9	1630		5.722818	
5	3	6	77.5	1392	1104	6.108564	
6	2	6	99.8	1793		8.052551	
7	1	6	68.2			8.785799	
8	2	6	66.2	1761		9.634239	
9	3	6	62.4	1811	1902	11.829944	

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	15	88.4			0.109181	1
1	2	15	73.1	1772		0.725213	
2	2	15	50.5	1077		1.97553	
3	3	15	82.5	1897	1828	2.55427	
4	3	15	93.6	1287	1048	3.299473	
5	2	15	51.9	1743		4.063214	
6	2	15	54.7	1182		4.774957	
7	2	15	75.5	1813		5.63428	
8	1	15	92.6			5.748943	
9	2	15	93.6	1595		6.999086	
10	2	15	59.3	1678		7.068773	
11	1	15	77.1			8.108704	
12	2	15	54.5	1724		8.807699	
13	2	15	61.5	1033		9.384689	
14	3	15	53.9	1443	1232	10.417156	
15	3	15	77.8	1105	1243	11.140195	
16	3	15	89	1802	1881	11.356493	

Bin5 Statistics 9

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	9	73.5	1676		0.510441	
1	1	9	94.6			0.749085	
2	2	9	56	1060		1.557925	
3	1	9	60.6			2.636837	
4	3	9	71.9	1785	1063	3.169669	
5	1	9	79			4.057063	
6	1	9	75.3			4.467612	
7	3	9	73.2	1116	1933	5.373764	
8	1	9	74.4			6.053485	1
9	2	9	75.4	1374		6.504162	
10	1	9	74.6			7.570893	
11	3	9	75.6	1915	1976	8.005925	
12	2	9	95.1	1359		8.628228	
13	2	9	70.3	1223		9.847326	
14	1	9	91.6			10.42181	
15	2	9	73.6	1870		11.127776	
16	2	9	95.5	1848		11.52716	

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	7	90.9	1321		0.65572	
1	1	7	58			2.239631	
2	2	7	73.5	1494		3.508081	
3	2	7	60.5	1266		4.270878	
4	1	7	80.7			6.142744	1
5	2	7	56.1	1355		7.066801	
6	1	7	85			8.992219	
7	1	7	86.7			10.329708	
8	2	7	80.5	1329		11.335684	

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	18	90.3	1868		0.514215	0
1	3	18	52.8	1934	1862	1.221852	
2	2	18	91	1423		1.572038	
3	2	18	86.7	1404		2.594693	
4	2	18	72	1399		3.07378	
5	2	18	82.4	1832		3.353131	
6	1	18	74.6			4.409229	
7	2	18	76.6	1880		5.005315	
8	3	18	81.9	1473	1701	5.447926	
9	3	18	97.9	1621	1327	6.155691	
10	1	18	78.1			7.08945	
11	1	18	87.9			7.557766	
12	3	18	75.8	1741	1634	8.233579	
13	3	18	69.1	1638	1658	8.872834	
14	3	18	65.7	1242	1812	9.348329	
15	2	18	56.8	1178		10.241047	
16	2	18	91.2	1580		10.96569	
17	1	18	57.8			11.958127	

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	10	55.3	1342		0.964218	
1	1	10	93.8			1.602639	
2	2	10	60.7	1195		3.178757	
3	2	10	92.7	1689		4.621853	
4	1	10	99.3			5.542681	1
5	1	10	56.6			7.620847	
6	3	10	53.7	1275	1891	8.263837	
7	2	10	60.4	1622		10.009121	
8	3	10	96.3	1618	1680	10.838039	

Bin5 Statistics 13

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	12	75.7	1159	1797	0.264595	
1	2	12	54.8	1424		1.087918	
2	1	12	81.1			2.041587	
3	3	12	82.7	1821	1111	2.916368	
4	1	12	68.2			3.718443	
5	2	12	56.4	1575		3.978926	
6	3	12	62.8	1352	1804	4.686544	1
7	1	12	95.4			5.504432	
8	2	12	76.5	1577		6.241096	
9	3	12	85.6	1734	1693	7.385039	
10	1	12	71			7.969297	
11	1	12	68.7			8.638066	
12	1	12	79.3			9.322866	
13	2	12	80.4	1642		10.246247	

Bin5 Statistics 14

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	5	71.3	1306		0.445642	
1	2	5	61.8	1005		1.123936	
2	3	5	85	1794	1434	2.240216	
3	2	5	92.8	1504		3.414292	
4	1	5	65.2			4.525737	
5	1	5	58.2			5.626427	1
6	2	5	53	1730		7.279373	
7	2	5	56.9	1477		7.975534	
8	3	5	87.9	1828	1770	8.83311	
9	3	5	76	1712	1741	10.705204	
10	2	5	51.9	1897		11.655987	

Bin5 Statistics 15

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	7	88.8	1028		0.684716	
1	2	7	64.1	1587		0.98325	
2	3	7	73.2	1862	1188	2.321426	
3	2	7	67.1	1735		2.555642	
4	1	7	63.7			3.711404	
5	2	7	86.3	1783		4.313535	
6	2	7	97.4	1279		5.543374	
7	3	7	77.1	1741	1749	6.233091	1
8	1	7	57.5			6.524785	
9	1	7	59.2			7.96586	
10	3	7	75.8	1207	1808	8.209047	
11	2	7	61.9	1902		9.184875	
12	2	7	74	1968		9.837594	
13	1	7	85			11.007603	
14	1	7	63.7			11.476535	

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	16	52.1	1163	1540	0.887033	1
1	2	16	78.7	1810		1.235048	
2	3	16	88.7	1160	1066	3.135094	
3	1	16	63.3			3.999754	
4	2	16	72.6	1758		4.826297	
5	3	16	61.5	1236	1228	6.687123	
6	2	16	75.7	1968		8.068401	
7	2	16	51.3	1548		8.471602	
8	1	16	75.3			10.373955	
9	1	16	68.6			11.225561	

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	67.3			0.582006	1
1	2	7	65.9	1083		1.379067	
2	1	7	99.3			1.934052	
3	2	7	94	1740		2.573405	
4	2	7	88.7	1065		3.081166	
5	3	7	99.9	1803	1277	4.46329	
6	1	7	86.7			4.703705	
7	1	7	68.7			5.348596	
8	2	7	83.3	1332		6.170554	
9	3	7	95.3	1524	1762	7.394678	
10	2	7	65.3	1380		7.763991	
11	3	7	76.7	1167	1710	8.642074	
12	2	7	99.1	1066		9.312367	
13	2	7	63.2	1439		10.491309	
14	3	7	87.4	1498	1343	10.517601	
15	2	7	57.8	1905		11.66923	

Bin5 Statistics 18

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	13	99.8	1263		0.173873	
1	2	13	85	1563		2.045469	
2	3	13	90.9	1547	1323	2.234412	
3	1	13	56.1			4.261454	
4	2	13	58.8	1659		5.264736	
5	3	13	64.1	1332	1953	6.234295	1
6	2	13	62.7	1875		7.400042	
7	2	13	55.8	1284		8.637999	
8	2	13	57.7	1040		9.623508	
9	1	13	50.7			10.644794	
10	2	13	82.8	1193		11.248622	

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	20	83.2	1398		0.14082	
1	1	20	94.6			0.930375	
2	2	20	86.7	1304		1.479058	
3	3	20	73.8	1393	1222	2.304686	
4	1	20	85.7			3.058901	
5	1	20	81.8			3.358712	
6	3	20	94.1	1021	1577	4.049649	
7	1	20	98			5.073639	
8	1	20	65.7			5.884334	
9	1	20	68.9			6.533274	1
10	3	20	83.3	1964	1460	6.967311	
11	3	20	70.6	1047	1869	7.948718	
12	2	20	62.5	1006		8.349902	
13	2	20	53.1	1713		9.098933	
14	2	20	84.6	1306		9.588969	
15	2	20	80.9	1906		10.521547	
16	3	20	76.8	1080	1786	10.799083	
17	2	20	92.6	1631		11.338592	

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	11	50.7	1418		0.425689	
1	1	11	71.4			2.090013	
2	1	11	59.6			2.9964	
3	2	11	56	1733		3.980557	
4	2	11	52	1581		4.715615	
5	2	11	80.6	1578		6.080451	1
6	3	11	89.6	1181	1680	6.602443	
7	2	11	57.2	1317		8.719908	
8	2	11	83.4	1486		9.636478	
9	1	11	74.5			10.71906	
10	1	11	77.8			11.745934	

Bin5 Statistics 21

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	11	70.5	1473	1887	0.30212	
1	2	11	71.4	1569		1.201153	
2	1	11	58			1.459585	
3	1	11	79.2			2.098781	
4	2	11	54.6	1533		2.609715	
5	2	11	81.1	1605		3.490404	
6	2	11	89.7	1076		3.811343	
7	1	11	51.9			4.646651	
8	2	11	97.1	1007		5.624618	
9	2	11	67.3	1214		5.880367	1
10	2	11	81	1144		6.768891	
11	1	11	97.9			7.443893	
12	1	11	81.9			7.948506	
13	2	11	67.6	1284		8.676288	
14	2	11	99.2	1772		9.132283	
15	1	11	96.6			9.934409	
16	1	11	93			10.666512	
17	3	11	76	1289	1196	11.235276	
18	2	11	86.5	1878		11.735494	

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	7	93.5	1048		0.538222	
1	1	7	73.4			1.011024	
2	2	7	79	1320		2.337625	
3	3	7	93.6	1097	1776	3.189348	
4	3	7	68.5	1049	1530	3.722009	
5	3	7	69	1949	1969	4.461772	
6	2	7	68.4	1110		5.274467	
7	2	7	65.6	1558		5.782303	1
8	2	7	92.4	1020		6.600771	
9	2	7	50.4	1225		7.894612	
10	1	7	91.4			8.53072	
11	2	7	59.9	1304		9.565215	
12	2	7	84.8	1941		9.777117	
13	3	7	62.9	1516	1883	10.571467	
14	3	7	99.1	1344	1117	11.802213	

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	16	54.2	1392		0.911932	
1	3	16	65.7	1854	1153	1.567374	
2	2	16	81.9	1149		2.529012	
3	2	16	84.2	1230		3.434581	
4	1	16	77.1			4.477636	
5	1	16	84.8			4.741689	
6	2	16	99.8	1380		6.240886	1
7	2	16	92.3	1643		6.697615	
8	2	16	53.4	1726		7.516024	
9	2	16	93.4	1229		8.519047	
10	2	16	63.4	1080		10.145144	
11	2	16	91.6	1998		10.669925	
12	2	16	77.6	1117		11.890937	

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	7	52.2	1327	1828	0.118426	1
1	2	7	57.7	1083		1.890453	
2	2	7	52.2	1424		2.226293	
3	2	7	97.1	1934		3.87125	
4	2	7	66.2	1644		4.65146	
5	2	7	85.1	1687		5.687872	
6	2	7	88	1737		7.167302	
7	2	7	83.2	1027		8.620565	
8	3	7	73.8	1278	1148	9.643126	
9	2	7	87.2	1443		10.229639	
10	1	7	84.4			11.682273	

Bin5 Statistics 25

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	8	94.2			0.501932	1
1	1	8	54.1			1.157637	
2	2	8	96.4	1530		2.109812	
3	2	8	91.7	1070		3.215186	
4	3	8	54.1	1508	1760	3.570552	
5	2	8	85.8	1224		4.719759	
6	3	8	70.5	1663	1514	5.365644	
7	1	8	67.1			6.74164	
8	2	8	86.7	1651		6.908811	
9	3	8	51.7	1060	1779	7.90374	
10	2	8	97.9	1913		8.849881	
11	1	8	92.4			10.136968	
12	2	8	55.2	1366		10.881717	
13	3	8	96.9	1510	1527	11.457967	

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	11	71.2	1067	1292	0.323844	1
1	2	11	51.3	1239		0.777153	
2	3	11	63.4	1113	1807	1.386794	
3	3	11	62.2	1306	1414	2.250759	
4	2	11	93.6	1511		3.181546	
5	2	11	76.7	1382		3.52682	
6	1	11	72.4			4.2151	
7	2	11	69.2	1742		4.723157	
8	3	11	96	1506	1808	5.787794	
9	1	11	73.2			6.140573	
10	2	11	68.5	1463		6.690799	
11	3	11	92.7	1131	1641	7.411146	
12	3	11	62.6	1541	1437	8.381867	
13	3	11	84.9	1997	1289	9.263119	
14	3	11	65.1	1374	1259	9.449359	
15	2	11	75.1	1413		10.583196	
16	3	11	56.9	1702	1633	11.239913	
17	3	11	53.7	1497	1503	11.807805	

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	16	65.7	1029	1012	0.772947	1
1	3	16	89.4	1631	1699	2.309671	
2	2	16	74.5	1998		3.129084	
3	3	16	73.7	1100	1476	4.481767	
4	1	16	91.4			5.621007	
5	2	16	62.2	1630		7.477111	
6	2	16	91.4	1784		8.516924	
7	2	16	67.7	1491		9.482948	
8	2	16	93.1	1324		11.252898	

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	5	99.6	1608		0.219736	
1	3	5	62.9	1635	1245	1.309817	
2	2	5	81.9	1944		2.104877	
3	2	5	81.8	1107		2.499454	
4	1	5	67.2			3.805653	
5	3	5	79.2	1643	1068	4.505799	
6	1	5	77.6			5.26459	
7	1	5	72.9			5.6637	1
8	1	5	65.8			6.981736	
9	3	5	68.2	1540	1318	7.648484	
10	2	5	90.5	1881		8.760018	
11	3	5	51.4	1543	1387	9.281372	
12	1	5	65.3			9.701901	
13	2	5	64.7	1907		10.606041	
14	2	5	64.2	1311		11.805326	

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	12	88.1	1629		0.780593	
1	3	12	93	1410	1711	1.215038	
2	2	12	81.4	1936		2.013022	
3	3	12	94.1	1535	1581	2.725709	
4	2	12	68.6	1328		3.880788	
5	1	12	60.2			4.732668	
6	1	12	59.3			5.004619	
7	1	12	80.6			6.278066	1
8	2	12	50.8	1168		6.927493	
9	3	12	62.5	1041	1982	7.278296	
10	2	12	64.8	1038		8.763779	
11	3	12	84.9	1882	1442	9.121639	
12	2	12	73	1789		10.190419	
13	3	12	50.4	1807	1546	10.967206	
14	2	12	54.9	1778		11.619056	

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	15	82.2	1538	1334	0.289276	1
1	1	15	75.7			0.956633	
2	2	15	76.7	1596		2.11791	
3	2	15	51.4	1569		2.905762	
4	2	15	67.5	1482		4.232968	
5	2	15	60.8	1957		5.102468	
6	1	15	85.5			5.58392	
7	1	15	92			6.191252	
8	1	15	64.3			6.947891	
9	2	15	77.6	1052		7.800487	
10	1	15	58.5			8.615207	
11	3	15	83.5	1189	1163	9.799205	
12	1	15	53.5			10.992778	
13	2	15	64.8	1753		11.767864	

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	5448.0, 5531.0, 5251.0, 5393.0, 5685.0, 5577.0, 5658.0, 5348.0, 5398.0, 5449.0, 5596.0, 5567.0, 5346.0, 5390.0, 5635.0, 5314.0, 5454.0, 5680.0, 5573.0, 5333.0, 5485.0, 5461.0, 5456.0, 5279.0, 5418.0, 5642.0, 5627.0, 5717.0, 5400.0, 5285.0, 5690.0, 5268.0, 5652.0, 5720.0, 5636.0, 5688.0, 5616.0, 5599.0, 5260.0, 5483.0, 5499.0, 5665.0, 5701.0, 5396.0, 5588.0, 5702.0, 5266.0, 5374.0, 5281.0, 5320.0, 5300.0, 5549.0, 5601.0, 5645.0, 5476.0, 5352.0, 5661.0, 5439.0, 5673.0, 5666.0, 5472.0, 5674.0, 5397.0, 5623.0, 5267.0, 5565.0, 5541.0, 5408.0, 5705.0, 5634.0, 5431.0, 5586.0, 5611.0, 5332.0, 5619.0, 5310.0, 5378.0, 5264.0, 5392.0, 5657.0, 5271.0, 5497.0, 5668.0, 5643.0, 5686.0, 5451.0, 5654.0, 5715.0, 5687.0, 5298.0, 5455.0, 5625.0, 5675.0, 5648.0, 5399.0, 5421.0, 5653.0, 5707.0, 5275.0, 5345.0 (number of hits: 5)
2	5530	9	1	333	1	5691.0, 5459.0, 5418.0, 5595.0, 5558.0, 5375.0, 5438.0, 5315.0, 5553.0, 5275.0, 5264.0, 5466.0, 5412.0, 5493.0, 5332.0, 5427.0, 5649.0, 5571.0, 5568.0, 5326.0, 5529.0, 5385.0, 5393.0, 5267.0, 5423.0, 5261.0, 5285.0, 5606.0, 5387.0, 5331.0, 5668.0, 5279.0, 5383.0, 5678.0, 5695.0, 5365.0, 5413.0, 5344.0, 5282.0, 5470.0, 5680.0, 5522.0, 5658.0, 5302.0, 5297.0, 5615.0, 5675.0, 5256.0, 5448.0, 5431.0, 5603.0, 5409.0, 5392.0, 5640.0, 5311.0, 5316.0, 5597.0, 5653.0, 5632.0, 5662.0, 5320.0, 5366.0, 5380.0, 5480.0, 5525.0, 5508.0, 5600.0, 5280.0, 5665.0, 5684.0, 5561.0, 5634.0, 5699.0, 5334.0, 5616.0, 5722.0, 5372.0, 5333.0, 5638.0, 5432.0, 5455.0, 5681.0, 5314.0, 5532.0, 5693.0, 5462.0, 5417.0, 5425.0, 5667.0, 5262.0, 5317.0, 5388.0, 5442.0, 5580.0, 5703.0, 5456.0, 5618.0, 5574.0, 5420.0, 5400.0 (number of hits: 5)
3	5530	9	1	333	1	5525.0, 5316.0, 5459.0, 5564.0, 5389.0, 5683.0, 5473.0, 5261.0, 5501.0, 5629.0, 5331.0, 5492.0, 5295.0, 5486.0, 5665.0, 5555.0, 5572.0, 5343.0, 5350.0, 5265.0, 5308.0, 5301.0, 5370.0, 5655.0, 5368.0, 5627.0, 5511.0, 5429.0, 5498.0, 5580.0, 5515.0, 5334.0, 5679.0, 5366.0, 5313.0, 5512.0, 5280.0, 5530.0, 5293.0, 5556.0, 5393.0, 5310.0, 5392.0, 5514.0, 5278.0, 5502.0, 5542.0, 5451.0, 5430.0, 5547.0, 5253.0, 5505.0, 5609.0, 5419.0, 5710.0,

						5325.0, 5329.0, 5497.0, 5255.0, 5560.0, 5381.0, 5658.0, 5681.0, 5704.0, 5702.0, 5466.0, 5425.0, 5355.0, 5605.0, 5475.0, 5371.0, 5568.0, 5678.0, 5327.0, 5534.0, 5646.0, 5286.0, 5406.0, 5270.0, 5360.0, 5326.0, 5287.0, 5487.0, 5573.0, 5590.0, 5411.0, 5516.0, 5391.0, 5395.0, 5645.0, 5537.0, 5641.0, 5662.0, 5553.0, 5420.0, 5621.0, 5256.0, 5321.0, 5444.0, 5644.0 (number of hits: 8)
4	5530	9	1	333	1	5359.0, 5519.0, 5293.0, 5651.0, 5443.0, 5430.0, 5464.0, 5679.0, 5573.0, 5628.0, 5497.0, 5481.0, 5594.0, 5462.0, 5354.0, 5529.0, 5648.0, 5718.0, 5565.0, 5711.0, 5665.0, 5683.0, 5582.0, 5667.0, 5592.0, 5549.0, 5294.0, 5453.0, 5275.0, 5322.0, 5269.0, 5501.0, 5303.0, 5459.0, 5585.0, 5520.0, 5632.0, 5372.0, 5458.0, 5352.0, 5403.0, 5607.0, 5384.0, 5455.0, 5273.0, 5586.0, 5532.0, 5674.0, 5553.0, 5498.0, 5391.0, 5694.0, 5640.0, 5435.0, 5548.0, 5345.0, 5472.0, 5601.0, 5581.0, 5588.0, 5433.0, 5415.0, 5291.0, 5709.0, 5680.0, 5545.0, 5334.0, 5697.0, 5302.0, 5524.0, 5450.0, 5253.0, 5423.0, 5707.0, 5427.0, 5661.0, 5722.0, 5456.0, 5380.0, 5717.0, 5376.0, 5616.0, 5491.0, 5556.0, 5353.0, 5503.0, 5344.0, 5626.0, 5647.0, 5476.0, 5550.0, 5705.0, 5432.0, 5591.0, 5577.0, 5659.0, 5538.0, 5612.0, 5593.0, 5599.0 (number of hits: 5)
5	5530	9	1	333	1	5407.0, 5285.0, 5339.0, 5616.0, 5436.0, 5348.0, 5576.0, 5701.0, 5697.0, 5315.0, 5404.0, 5533.0, 5654.0, 5462.0, 5496.0, 5477.0, 5714.0, 5438.0, 5482.0, 5547.0, 5640.0, 5464.0, 5382.0, 5589.0, 5519.0, 5349.0, 5609.0, 5550.0, 5558.0, 5504.0, 5452.0, 5569.0, 5269.0, 5679.0, 5495.0, 5594.0, 5302.0, 5666.0, 5321.0, 5564.0, 5678.0, 5328.0, 5422.0, 5612.0, 5500.0, 5331.0, 5412.0, 5286.0, 5347.0, 5677.0, 5370.0, 5512.0, 5355.0, 5583.0, 5474.0, 5516.0, 5606.0, 5265.0, 5431.0, 5629.0, 5546.0, 5645.0, 5298.0, 5468.0, 5260.0, 5447.0, 5562.0, 5336.0, 5457.0, 5549.0, 5360.0, 5574.0, 5289.0, 5294.0, 5423.0, 5660.0, 5268.0, 5387.0, 5637.0, 5700.0, 5535.0, 5683.0, 5401.0, 5710.0, 5253.0, 5273.0, 5258.0, 5720.0, 5610.0, 5548.0, 5325.0, 5659.0, 5393.0, 5513.0, 5358.0, 5684.0, 5591.0, 5446.0, 5276.0, 5685.0 (number of hits: 6)
6	5530	9	1	333	1	5711.0, 5372.0, 5436.0, 5487.0, 5563.0, 5636.0, 5423.0, 5650.0, 5616.0, 5627.0, 5696.0, 5623.0, 5685.0, 5576.0, 5382.0, 5502.0, 5551.0, 5539.0, 5594.0, 5530.0, 5334.0, 5586.0, 5532.0, 5651.0, 5422.0, 5694.0, 5346.0, 5374.0, 5598.0, 5575.0, 5509.0, 5250.0, 5499.0, 5345.0, 5648.0,

						5452.0, 5479.0, 5570.0, 5621.0, 5548.0, 5702.0, 5451.0, 5463.0, 5438.0, 5583.0, 5407.0, 5471.0, 5626.0, 5272.0, 5468.0, 5429.0, 5557.0, 5533.0, 5402.0, 5252.0, 5309.0, 5254.0, 5641.0, 5337.0, 5628.0, 5348.0, 5492.0, 5562.0, 5359.0, 5585.0, 5370.0, 5649.0, 5295.0, 5448.0, 5363.0, 5443.0, 5351.0, 5644.0, 5475.0, 5512.0, 5264.0, 5693.0, 5298.0, 5661.0, 5698.0, 5305.0, 5459.0, 5484.0, 5308.0, 5703.0, 5592.0, 5489.0, 5324.0, 5349.0, 5569.0, 5516.0, 5333.0, 5329.0, 5381.0, 5715.0, 5646.0, 5257.0, 5520.0, 5535.0, 5300.0 (number of hits: 6)
7	5530	9	1	333	1	5596.0, 5625.0, 5341.0, 5478.0, 5502.0, 5342.0, 5493.0, 5348.0, 5293.0, 5586.0, 5665.0, 5544.0, 5352.0, 5708.0, 5572.0, 5278.0, 5433.0, 5343.0, 5371.0, 5410.0, 5345.0, 5347.0, 5456.0, 5398.0, 5524.0, 5337.0, 5279.0, 5686.0, 5365.0, 5678.0, 5669.0, 5445.0, 5364.0, 5295.0, 5658.0, 5284.0, 5590.0, 5600.0, 5672.0, 5712.0, 5459.0, 5593.0, 5311.0, 5575.0, 5559.0, 5369.0, 5253.0, 5716.0, 5670.0, 5385.0, 5422.0, 5332.0, 5679.0, 5707.0, 5487.0, 5346.0, 5325.0, 5718.0, 5635.0, 5618.0, 5723.0, 5601.0, 5396.0, 5378.0, 5693.0, 5565.0, 5643.0, 5488.0, 5498.0, 5539.0, 5547.0, 5614.0, 5660.0, 5701.0, 5258.0, 5616.0, 5355.0, 5402.0, 5379.0, 5585.0, 5450.0, 5497.0, 5441.0, 5505.0, 5291.0, 5334.0, 5282.0, 5628.0, 5714.0, 5504.0, 5467.0, 5602.0, 5542.0, 5517.0, 5477.0, 5359.0, 5395.0, 5675.0, 5319.0, 5349.0 (number of hits: 4)
8	5530	9	1	333	1	5578.0, 5328.0, 5610.0, 5719.0, 5416.0, 5438.0, 5640.0, 5723.0, 5393.0, 5339.0, 5351.0, 5685.0, 5556.0, 5367.0, 5410.0, 5636.0, 5513.0, 5309.0, 5604.0, 5531.0, 5630.0, 5650.0, 5552.0, 5284.0, 5267.0, 5631.0, 5435.0, 5269.0, 5579.0, 5422.0, 5532.0, 5392.0, 5526.0, 5461.0, 5666.0, 5436.0, 5709.0, 5430.0, 5585.0, 5293.0, 5616.0, 5601.0, 5642.0, 5447.0, 5527.0, 5696.0, 5487.0, 5550.0, 5279.0, 5483.0, 5457.0, 5482.0, 5700.0, 5611.0, 5542.0, 5632.0, 5549.0, 5477.0, 5386.0, 5287.0, 5266.0, 5595.0, 5597.0, 5544.0, 5454.0, 5280.0, 5374.0, 5303.0, 5485.0, 5390.0, 5546.0, 5663.0, 5676.0, 5625.0, 5591.0, 5677.0, 5270.0, 5633.0, 5686.0, 5437.0, 5389.0, 5353.0, 5695.0, 5715.0, 5708.0, 5523.0, 5711.0, 5606.0, 5619.0, 5268.0, 5668.0, 5693.0, 5404.0, 5469.0, 5674.0, 5627.0, 5417.0, 5273.0, 5662.0, 5285.0 (number of hits: 5)
9	5530	9	1	333	1	5261.0, 5552.0, 5344.0, 5648.0, 5500.0, 5488.0, 5654.0, 5556.0, 5507.0, 5440.0, 5290.0, 5336.0, 5270.0, 5527.0, 5446.0,

						5665.0, 5698.0, 5697.0, 5642.0, 5582.0, 5653.0, 5324.0, 5520.0, 5508.0, 5362.0, 5511.0, 5467.0, 5638.0, 5401.0, 5663.0, 5305.0, 5275.0, 5451.0, 5623.0, 5307.0, 5606.0, 5469.0, 5345.0, 5350.0, 5272.0, 5619.0, 5303.0, 5262.0, 5464.0, 5565.0, 5482.0, 5636.0, 5503.0, 5268.0, 5537.0, 5544.0, 5693.0, 5551.0, 5436.0, 5380.0, 5545.0, 5635.0, 5589.0, 5611.0, 5419.0, 5372.0, 5251.0, 5368.0, 5577.0, 5538.0, 5705.0, 5553.0, 5557.0, 5431.0, 5437.0, 5316.0, 5573.0, 5327.0, 5616.0, 5296.0, 5555.0, 5629.0, 5294.0, 5514.0, 5394.0, 5323.0, 5363.0, 5684.0, 5273.0, 5687.0, 5672.0, 5643.0, 5259.0, 5534.0, 5353.0, 5450.0, 5378.0, 5281.0, 5699.0, 5418.0, 5260.0, 5340.0, 5254.0, 5325.0, 5366.0 (number of hits: 6)
10	5530	9	1	333	1	5368.0, 5435.0, 5639.0, 5451.0, 5439.0, 5493.0, 5442.0, 5464.0, 5654.0, 5398.0, 5599.0, 5547.0, 5584.0, 5275.0, 5391.0, 5509.0, 5699.0, 5308.0, 5337.0, 5379.0, 5575.0, 5298.0, 5264.0, 5690.0, 5544.0, 5644.0, 5627.0, 5570.0, 5333.0, 5569.0, 5395.0, 5315.0, 5648.0, 5408.0, 5296.0, 5325.0, 5542.0, 5251.0, 5430.0, 5579.0, 5341.0, 5304.0, 5587.0, 5405.0, 5362.0, 5718.0, 5610.0, 5440.0, 5563.0, 5402.0, 5367.0, 5697.0, 5363.0, 5586.0, 5638.0, 5449.0, 5458.0, 5572.0, 5688.0, 5531.0, 5353.0, 5549.0, 5664.0, 5687.0, 5433.0, 5250.0, 5528.0, 5453.0, 5323.0, 5497.0, 5519.0, 5416.0, 5366.0, 5344.0, 5499.0, 5324.0, 5384.0, 5496.0, 5399.0, 5512.0, 5711.0, 5254.0, 5322.0, 5475.0, 5503.0, 5331.0, 5390.0, 5348.0, 5516.0, 5557.0, 5345.0, 5513.0, 5617.0, 5712.0, 5299.0, 5457.0, 5555.0, 5258.0, 5375.0, 5444.0 (number of hits: 5)
11	5530	9	1	333	1	5269.0, 5466.0, 5393.0, 5634.0, 5284.0, 5480.0, 5370.0, 5424.0, 5664.0, 5646.0, 5531.0, 5388.0, 5572.0, 5351.0, 5439.0, 5706.0, 5263.0, 5702.0, 5445.0, 5402.0, 5384.0, 5279.0, 5549.0, 5457.0, 5300.0, 5709.0, 5592.0, 5320.0, 5409.0, 5680.0, 5668.0, 5420.0, 5310.0, 5389.0, 5521.0, 5277.0, 5503.0, 5292.0, 5346.0, 5276.0, 5367.0, 5537.0, 5613.0, 5337.0, 5575.0, 5306.0, 5341.0, 5260.0, 5714.0, 5469.0, 5334.0, 5542.0, 5317.0, 5565.0, 5673.0, 5324.0, 5363.0, 5425.0, 5596.0, 5434.0, 5610.0, 5495.0, 5605.0, 5288.0, 5456.0, 5681.0, 5399.0, 5282.0, 5707.0, 5621.0, 5640.0, 5261.0, 5612.0, 5677.0, 5623.0, 5649.0, 5719.0, 5547.0, 5578.0, 5626.0, 5481.0, 5345.0, 5603.0, 5496.0, 5315.0, 5568.0, 5523.0, 5606.0, 5353.0, 5422.0, 5504.0, 5467.0, 5387.0, 5656.0, 5694.0, 5498.0, 5430.0, 5287.0, 5516.0, 5450.0

						(number of hits: 6)
12	5530	9	1	333	1	5712.0, 5274.0, 5543.0, 5575.0, 5655.0, 5577.0, 5614.0, 5278.0, 5426.0, 5323.0, 5304.0, 5722.0, 5448.0, 5689.0, 5652.0, 5435.0, 5717.0, 5645.0, 5723.0, 5432.0, 5477.0, 5505.0, 5288.0, 5556.0, 5446.0, 5475.0, 5567.0, 5703.0, 5669.0, 5372.0, 5682.0, 5609.0, 5421.0, 5499.0, 5377.0, 5656.0, 5314.0, 5250.0, 5295.0, 5440.0, 5535.0, 5558.0, 5686.0, 5569.0, 5620.0, 5268.0, 5564.0, 5375.0, 5306.0, 5497.0, 5376.0, 5612.0, 5257.0, 5632.0, 5413.0, 5439.0, 5514.0, 5702.0, 5479.0, 5568.0, 5561.0, 5275.0, 5654.0, 5300.0, 5693.0, 5457.0, 5534.0, 5269.0, 5487.0, 5688.0, 5523.0, 5378.0, 5496.0, 5590.0, 5601.0, 5373.0, 5681.0, 5366.0, 5576.0, 5606.0, 5486.0, 5332.0, 5589.0, 5538.0, 5462.0, 5276.0, 5615.0, 5355.0, 5532.0, 5671.0, 5417.0, 5367.0, 5573.0, 5481.0, 5407.0, 5525.0, 5647.0, 5396.0, 5489.0, 5333.0 (number of hits: 6)
13	5530	9	1	333	1	5629.0, 5428.0, 5456.0, 5426.0, 5678.0, 5263.0, 5264.0, 5468.0, 5471.0, 5273.0, 5359.0, 5438.0, 5673.0, 5391.0, 5588.0, 5699.0, 5459.0, 5328.0, 5525.0, 5520.0, 5587.0, 5410.0, 5401.0, 5572.0, 5561.0, 5711.0, 5714.0, 5514.0, 5348.0, 5503.0, 5624.0, 5311.0, 5535.0, 5266.0, 5442.0, 5376.0, 5642.0, 5251.0, 5384.0, 5308.0, 5626.0, 5648.0, 5566.0, 5606.0, 5433.0, 5656.0, 5294.0, 5545.0, 5458.0, 5332.0, 5614.0, 5300.0, 5620.0, 5432.0, 5423.0, 5397.0, 5427.0, 5374.0, 5253.0, 5615.0, 5687.0, 5679.0, 5261.0, 5646.0, 5569.0, 5649.0, 5354.0, 5722.0, 5619.0, 5653.0, 5516.0, 5403.0, 5488.0, 5670.0, 5596.0, 5381.0, 5601.0, 5640.0, 5686.0, 5383.0, 5585.0, 5630.0, 5595.0, 5301.0, 5632.0, 5635.0, 5605.0, 5361.0, 5579.0, 5368.0, 5475.0, 5655.0, 5269.0, 5281.0, 5676.0, 5481.0, 5443.0, 5571.0, 5519.0, 5622.0 (number of hits: 5)
14	5530	9	1	333	1	5558.0, 5354.0, 5661.0, 5411.0, 5430.0, 5455.0, 5671.0, 5318.0, 5680.0, 5632.0, 5713.0, 5458.0, 5382.0, 5286.0, 5581.0, 5326.0, 5591.0, 5703.0, 5712.0, 5282.0, 5340.0, 5544.0, 5552.0, 5701.0, 5356.0, 5644.0, 5368.0, 5401.0, 5659.0, 5454.0, 5492.0, 5450.0, 5442.0, 5507.0, 5267.0, 5513.0, 5460.0, 5357.0, 5263.0, 5572.0, 5699.0, 5708.0, 5652.0, 5664.0, 5268.0, 5331.0, 5434.0, 5505.0, 5294.0, 5653.0, 5257.0, 5362.0, 5538.0, 5299.0, 5439.0, 5641.0, 5688.0, 5542.0, 5484.0, 5274.0, 5497.0, 5269.0, 5590.0, 5316.0, 5327.0, 5367.0, 5502.0, 5609.0, 5570.0, 5635.0, 5474.0, 5494.0, 5694.0, 5706.0, 5381.0, 5503.0, 5612.0, 5283.0, 5426.0, 5514.0,

						5413.0, 5539.0, 5379.0, 5628.0, 5536.0, 5677.0, 5402.0, 5422.0, 5371.0, 5270.0, 5547.0, 5569.0, 5308.0, 5705.0, 5622.0, 5687.0, 5526.0, 5684.0, 5465.0, 5672.0 (number of hits: 4)
15	5530	9	1	333	1	5329.0, 5674.0, 5376.0, 5556.0, 5307.0, 5308.0, 5530.0, 5686.0, 5409.0, 5699.0, 5622.0, 5658.0, 5486.0, 5585.0, 5541.0, 5696.0, 5690.0, 5449.0, 5259.0, 5507.0, 5280.0, 5399.0, 5336.0, 5586.0, 5526.0, 5457.0, 5331.0, 5514.0, 5636.0, 5672.0, 5580.0, 5476.0, 5509.0, 5588.0, 5431.0, 5270.0, 5682.0, 5720.0, 5499.0, 5614.0, 5391.0, 5317.0, 5361.0, 5421.0, 5441.0, 5640.0, 5528.0, 5340.0, 5712.0, 5610.0, 5666.0, 5704.0, 5612.0, 5338.0, 5319.0, 5305.0, 5292.0, 5406.0, 5582.0, 5291.0, 5368.0, 5550.0, 5487.0, 5267.0, 5353.0, 5552.0, 5628.0, 5563.0, 5420.0, 5495.0, 5445.0, 5379.0, 5611.0, 5490.0, 5467.0, 5312.0, 5330.0, 5381.0, 5532.0, 5548.0, 5474.0, 5565.0, 5538.0, 5360.0, 5412.0, 5688.0, 5364.0, 5657.0, 5546.0, 5700.0, 5523.0, 5544.0, 5633.0, 5442.0, 5418.0, 5722.0, 5263.0, 5493.0, 5320.0, 5709.0 (number of hits: 6)
16	5530	9	1	333	1	5351.0, 5326.0, 5502.0, 5252.0, 5422.0, 5298.0, 5355.0, 5323.0, 5672.0, 5390.0, 5352.0, 5448.0, 5679.0, 5652.0, 5273.0, 5332.0, 5471.0, 5518.0, 5521.0, 5640.0, 5470.0, 5267.0, 5573.0, 5720.0, 5702.0, 5426.0, 5708.0, 5437.0, 5529.0, 5658.0, 5576.0, 5321.0, 5458.0, 5365.0, 5328.0, 5596.0, 5259.0, 5542.0, 5325.0, 5563.0, 5441.0, 5701.0, 5485.0, 5713.0, 5705.0, 5555.0, 5369.0, 5607.0, 5373.0, 5344.0, 5314.0, 5512.0, 5372.0, 5654.0, 5433.0, 5483.0, 5572.0, 5719.0, 5651.0, 5587.0, 5621.0, 5415.0, 5285.0, 5472.0, 5294.0, 5582.0, 5400.0, 5339.0, 5559.0, 5509.0, 5378.0, 5272.0, 5583.0, 5473.0, 5284.0, 5408.0, 5682.0, 5487.0, 5282.0, 5394.0, 5692.0, 5516.0, 5392.0, 5633.0, 5315.0, 5391.0, 5508.0, 5452.0, 5552.0, 5406.0, 5469.0, 5382.0, 5674.0, 5681.0, 5707.0, 5567.0, 5357.0, 5439.0, 5665.0, 5541.0 (number of hits: 4)
17	5530	9	1	333	1	5708.0, 5522.0, 5605.0, 5681.0, 5383.0, 5543.0, 5426.0, 5620.0, 5596.0, 5622.0, 5600.0, 5608.0, 5500.0, 5553.0, 5428.0, 5398.0, 5650.0, 5331.0, 5589.0, 5569.0, 5384.0, 5645.0, 5468.0, 5688.0, 5303.0, 5389.0, 5675.0, 5544.0, 5518.0, 5344.0, 5660.0, 5251.0, 5439.0, 5457.0, 5529.0, 5554.0, 5719.0, 5429.0, 5339.0, 5349.0, 5411.0, 5257.0, 5407.0, 5279.0, 5412.0, 5614.0, 5351.0, 5603.0, 5511.0, 5254.0, 5477.0, 5654.0, 5365.0, 5625.0, 5577.0, 5538.0, 5505.0, 5480.0, 5323.0, 5624.0,

						5691.0, 5353.0, 5578.0, 5452.0, 5435.0, 5487.0, 5694.0, 5319.0, 5634.0, 5557.0, 5255.0, 5378.0, 5484.0, 5661.0, 5713.0, 5324.0, 5593.0, 5612.0, 5462.0, 5515.0, 5431.0, 5320.0, 5427.0, 5350.0, 5402.0, 5655.0, 5549.0, 5636.0, 5641.0, 5637.0, 5445.0, 5693.0, 5302.0, 5458.0, 5568.0, 5555.0, 5459.0, 5310.0, 5470.0, 5701.0 (number of hits: 3)
18	5530	9	1	333	1	5638.0, 5546.0, 5507.0, 5490.0, 5423.0, 5636.0, 5685.0, 5466.0, 5430.0, 5599.0, 5625.0, 5523.0, 5374.0, 5690.0, 5565.0, 5634.0, 5429.0, 5445.0, 5649.0, 5604.0, 5480.0, 5411.0, 5528.0, 5702.0, 5459.0, 5298.0, 5494.0, 5410.0, 5296.0, 5595.0, 5284.0, 5646.0, 5336.0, 5476.0, 5375.0, 5619.0, 5687.0, 5400.0, 5647.0, 5710.0, 5442.0, 5340.0, 5542.0, 5327.0, 5697.0, 5331.0, 5311.0, 5659.0, 5271.0, 5250.0, 5489.0, 5582.0, 5711.0, 5452.0, 5387.0, 5291.0, 5591.0, 5385.0, 5346.0, 5628.0, 5665.0, 5434.0, 5700.0, 5344.0, 5335.0, 5319.0, 5524.0, 5497.0, 5302.0, 5485.0, 5288.0, 5424.0, 5676.0, 5337.0, 5396.0, 5723.0, 5683.0, 5597.0, 5556.0, 5471.0, 5703.0, 5538.0, 5437.0, 5467.0, 5295.0, 5478.0, 5630.0, 5262.0, 5552.0, 5403.0, 5562.0, 5415.0, 5719.0, 5496.0, 5577.0, 5460.0, 5275.0, 5571.0, 5280.0, 5506.0 (number of hits: 7)
19	5530	9	1	333	1	5511.0, 5703.0, 5397.0, 5679.0, 5583.0, 5610.0, 5627.0, 5622.0, 5353.0, 5492.0, 5642.0, 5410.0, 5432.0, 5563.0, 5635.0, 5665.0, 5289.0, 5413.0, 5611.0, 5570.0, 5387.0, 5348.0, 5332.0, 5317.0, 5555.0, 5261.0, 5539.0, 5264.0, 5430.0, 5373.0, 5647.0, 5581.0, 5644.0, 5470.0, 5620.0, 5459.0, 5661.0, 5312.0, 5524.0, 5309.0, 5285.0, 5716.0, 5513.0, 5369.0, 5532.0, 5681.0, 5304.0, 5637.0, 5613.0, 5425.0, 5402.0, 5568.0, 5713.0, 5455.0, 5263.0, 5552.0, 5253.0, 5496.0, 5519.0, 5590.0, 5381.0, 5293.0, 5435.0, 5427.0, 5322.0, 5573.0, 5721.0, 5439.0, 5386.0, 5670.0, 5650.0, 5370.0, 5504.0, 5385.0, 5281.0, 5445.0, 5468.0, 5482.0, 5699.0, 5724.0, 5277.0, 5421.0, 5688.0, 5389.0, 5720.0, 5265.0, 5259.0, 5330.0, 5422.0, 5475.0, 5301.0, 5379.0, 5618.0, 5494.0, 5390.0, 5399.0, 5257.0, 5327.0, 5501.0, 5367.0 (number of hits: 7)
20	5530	9	1	333	1	5366.0, 5349.0, 5703.0, 5641.0, 5299.0, 5531.0, 5602.0, 5529.0, 5569.0, 5325.0, 5546.0, 5697.0, 5437.0, 5311.0, 5681.0, 5537.0, 5286.0, 5485.0, 5673.0, 5395.0, 5289.0, 5563.0, 5499.0, 5319.0, 5432.0, 5592.0, 5479.0, 5684.0, 5512.0, 5701.0, 5369.0, 5487.0, 5455.0, 5553.0, 5654.0, 5534.0, 5640.0, 5310.0, 5708.0, 5448.0,

						5296.0, 5620.0, 5278.0, 5591.0, 5642.0, 5273.0, 5587.0, 5542.0, 5495.0, 5330.0, 5470.0, 5373.0, 5689.0, 5686.0, 5431.0, 5318.0, 5387.0, 5500.0, 5605.0, 5651.0, 5515.0, 5538.0, 5484.0, 5365.0, 5612.0, 5386.0, 5705.0, 5549.0, 5715.0, 5316.0, 5457.0, 5494.0, 5417.0, 5340.0, 5545.0, 5604.0, 5382.0, 5699.0, 5516.0, 5337.0, 5581.0, 5619.0, 5672.0, 5565.0, 5454.0, 5685.0, 5308.0, 5547.0, 5562.0, 5288.0, 5302.0, 5509.0, 5506.0, 5560.0, 5389.0, 5698.0, 5721.0, 5561.0, 5348.0, 5328.0 (number of hits: 9)
21	5530	9	1	333	1	5686.0, 5401.0, 5699.0, 5296.0, 5386.0, 5575.0, 5705.0, 5305.0, 5458.0, 5297.0, 5573.0, 5449.0, 5568.0, 5327.0, 5256.0, 5514.0, 5342.0, 5332.0, 5470.0, 5681.0, 5532.0, 5495.0, 5610.0, 5309.0, 5258.0, 5703.0, 5625.0, 5537.0, 5668.0, 5443.0, 5382.0, 5722.0, 5518.0, 5430.0, 5497.0, 5717.0, 5476.0, 5291.0, 5643.0, 5277.0, 5488.0, 5419.0, 5483.0, 5721.0, 5338.0, 5698.0, 5596.0, 5570.0, 5468.0, 5406.0, 5261.0, 5527.0, 5471.0, 5398.0, 5611.0, 5517.0, 5285.0, 5255.0, 5655.0, 5678.0, 5701.0, 5674.0, 5320.0, 5252.0, 5613.0, 5352.0, 5455.0, 5496.0, 5581.0, 5374.0, 5259.0, 5491.0, 5710.0, 5472.0, 5475.0, 5300.0, 5307.0, 5312.0, 5545.0, 5459.0, 5494.0, 5314.0, 5687.0, 5466.0, 5329.0, 5650.0, 5385.0, 5547.0, 5469.0, 5682.0, 5586.0, 5541.0, 5719.0, 5646.0, 5672.0, 5571.0, 5281.0, 5323.0, 5394.0, 5409.0 (number of hits: 10)
22	5530	9	1	333	1	5593.0, 5399.0, 5594.0, 5291.0, 5684.0, 5705.0, 5685.0, 5524.0, 5671.0, 5446.0, 5616.0, 5437.0, 5462.0, 5689.0, 5465.0, 5339.0, 5712.0, 5699.0, 5319.0, 5693.0, 5463.0, 5274.0, 5458.0, 5661.0, 5286.0, 5368.0, 5639.0, 5688.0, 5324.0, 5571.0, 5503.0, 5261.0, 5642.0, 5327.0, 5657.0, 5255.0, 5526.0, 5342.0, 5370.0, 5656.0, 5691.0, 5486.0, 5710.0, 5328.0, 5680.0, 5455.0, 5470.0, 5515.0, 5422.0, 5427.0, 5386.0, 5478.0, 5288.0, 5406.0, 5349.0, 5711.0, 5556.0, 5435.0, 5643.0, 5335.0, 5394.0, 5722.0, 5634.0, 5473.0, 5605.0, 5631.0, 5424.0, 5611.0, 5608.0, 5269.0, 5591.0, 5417.0, 5551.0, 5574.0, 5297.0, 5265.0, 5402.0, 5431.0, 5615.0, 5651.0, 5652.0, 5461.0, 5409.0, 5333.0, 5296.0, 5352.0, 5362.0, 5531.0, 5702.0, 5579.0, 5377.0, 5581.0, 5273.0, 5412.0, 5281.0, 5445.0, 5414.0, 5418.0, 5629.0, 5701.0 (number of hits: 5)
23	5530	9	1	333	1	5623.0, 5279.0, 5371.0, 5267.0, 5393.0, 5459.0, 5255.0, 5721.0, 5583.0, 5320.0, 5663.0, 5582.0, 5648.0, 5567.0, 5318.0, 5461.0, 5422.0, 5295.0, 5359.0, 5599.0,

						5457.0, 5637.0, 5356.0, 5592.0, 5672.0, 5347.0, 5545.0, 5681.0, 5515.0, 5404.0, 5396.0, 5495.0, 5319.0, 5625.0, 5398.0, 5714.0, 5263.0, 5261.0, 5699.0, 5317.0, 5647.0, 5266.0, 5645.0, 5490.0, 5405.0, 5308.0, 5367.0, 5348.0, 5530.0, 5270.0, 5716.0, 5384.0, 5668.0, 5691.0, 5296.0, 5315.0, 5402.0, 5483.0, 5539.0, 5389.0, 5454.0, 5692.0, 5311.0, 5466.0, 5708.0, 5269.0, 5300.0, 5531.0, 5652.0, 5676.0, 5321.0, 5285.0, 5553.0, 5492.0, 5554.0, 5502.0, 5594.0, 5331.0, 5474.0, 5512.0, 5611.0, 5302.0, 5522.0, 5479.0, 5666.0, 5516.0, 5653.0, 5513.0, 5403.0, 5410.0, 5306.0, 5312.0, 5609.0, 5537.0, 5646.0, 5523.0, 5493.0, 5644.0, 5604.0, 5361.0 (number of hits: 9)
24	5530	9	1	333	1	5253.0, 5446.0, 5581.0, 5456.0, 5598.0, 5419.0, 5503.0, 5341.0, 5494.0, 5409.0, 5654.0, 5401.0, 5451.0, 5590.0, 5563.0, 5605.0, 5626.0, 5455.0, 5480.0, 5259.0, 5315.0, 5710.0, 5613.0, 5528.0, 5565.0, 5531.0, 5492.0, 5621.0, 5683.0, 5407.0, 5557.0, 5693.0, 5469.0, 5712.0, 5344.0, 5348.0, 5697.0, 5721.0, 5709.0, 5670.0, 5402.0, 5612.0, 5500.0, 5515.0, 5467.0, 5720.0, 5594.0, 5576.0, 5577.0, 5711.0, 5620.0, 5422.0, 5370.0, 5667.0, 5568.0, 5277.0, 5509.0, 5266.0, 5382.0, 5355.0, 5484.0, 5272.0, 5493.0, 5352.0, 5578.0, 5704.0, 5260.0, 5399.0, 5365.0, 5269.0, 5723.0, 5297.0, 5271.0, 5342.0, 5638.0, 5533.0, 5359.0, 5288.0, 5586.0, 5625.0, 5349.0, 5615.0, 5608.0, 5542.0, 5562.0, 5488.0, 5622.0, 5694.0, 5611.0, 5335.0, 5334.0, 5674.0, 5440.0, 5541.0, 5678.0, 5279.0, 5282.0, 5599.0, 5601.0, 5715.0 (number of hits: 2)
25	5530	9	1	333	1	5551.0, 5360.0, 5514.0, 5507.0, 5707.0, 5617.0, 5576.0, 5683.0, 5300.0, 5376.0, 5722.0, 5657.0, 5271.0, 5505.0, 5654.0, 5262.0, 5438.0, 5586.0, 5254.0, 5564.0, 5417.0, 5687.0, 5310.0, 5441.0, 5433.0, 5675.0, 5668.0, 5694.0, 5491.0, 5608.0, 5653.0, 5721.0, 5393.0, 5520.0, 5550.0, 5601.0, 5609.0, 5421.0, 5680.0, 5291.0, 5399.0, 5340.0, 5490.0, 5506.0, 5648.0, 5284.0, 5629.0, 5701.0, 5427.0, 5343.0, 5619.0, 5407.0, 5263.0, 5479.0, 5258.0, 5686.0, 5493.0, 5708.0, 5621.0, 5623.0, 5282.0, 5599.0, 5472.0, 5552.0, 5655.0, 5697.0, 5287.0, 5385.0, 5712.0, 5296.0, 5640.0, 5690.0, 5658.0, 5431.0, 5391.0, 5459.0, 5495.0, 5508.0, 5367.0, 5536.0, 5556.0, 5293.0, 5437.0, 5432.0, 5425.0, 5338.0, 5369.0, 5561.0, 5620.0, 5302.0, 5542.0, 5642.0, 5311.0, 5436.0, 5641.0, 5294.0, 5681.0, 5267.0, 5404.0, 5354.0 (number of hits: 9)

26	5530	9	1	333	1	5665.0, 5269.0, 5330.0, 5424.0, 5304.0, 5594.0, 5309.0, 5360.0, 5333.0, 5489.0, 5327.0, 5618.0, 5490.0, 5703.0, 5494.0, 5679.0, 5720.0, 5647.0, 5450.0, 5464.0, 5455.0, 5586.0, 5668.0, 5454.0, 5372.0, 5559.0, 5340.0, 5483.0, 5470.0, 5306.0, 5283.0, 5313.0, 5651.0, 5673.0, 5654.0, 5411.0, 5575.0, 5567.0, 5361.0, 5709.0, 5391.0, 5565.0, 5451.0, 5605.0, 5364.0, 5642.0, 5723.0, 5406.0, 5262.0, 5430.0, 5271.0, 5322.0, 5579.0, 5480.0, 5496.0, 5417.0, 5288.0, 5631.0, 5711.0, 5447.0, 5521.0, 5550.0, 5615.0, 5603.0, 5541.0, 5478.0, 5525.0, 5588.0, 5264.0, 5716.0, 5387.0, 5643.0, 5267.0, 5321.0, 5538.0, 5472.0, 5292.0, 5607.0, 5492.0, 5415.0, 5632.0, 5611.0, 5659.0, 5453.0, 5598.0, 5452.0, 5385.0, 5449.0, 5544.0, 5572.0, 5561.0, 5587.0, 5695.0, 5425.0, 5574.0, 5600.0, 5347.0, 5589.0, 5326.0, 5721.0 (number of hits: 6)
27	5530	9	1	333	1	5538.0, 5428.0, 5602.0, 5590.0, 5396.0, 5380.0, 5575.0, 5364.0, 5393.0, 5661.0, 5510.0, 5282.0, 5392.0, 5543.0, 5432.0, 5336.0, 5685.0, 5721.0, 5714.0, 5331.0, 5506.0, 5589.0, 5513.0, 5595.0, 5338.0, 5366.0, 5660.0, 5377.0, 5697.0, 5502.0, 5571.0, 5276.0, 5305.0, 5529.0, 5535.0, 5354.0, 5578.0, 5352.0, 5294.0, 5414.0, 5416.0, 5254.0, 5278.0, 5286.0, 5487.0, 5609.0, 5287.0, 5488.0, 5623.0, 5273.0, 5464.0, 5266.0, 5265.0, 5389.0, 5279.0, 5634.0, 5412.0, 5498.0, 5312.0, 5559.0, 5585.0, 5612.0, 5441.0, 5526.0, 5600.0, 5643.0, 5425.0, 5486.0, 5553.0, 5635.0, 5496.0, 5413.0, 5666.0, 5627.0, 5290.0, 5689.0, 5410.0, 5532.0, 5325.0, 5650.0, 5610.0, 5631.0, 5327.0, 5508.0, 5622.0, 5398.0, 5478.0, 5552.0, 5656.0, 5447.0, 5558.0, 5301.0, 5403.0, 5645.0, 5490.0, 5636.0, 5335.0, 5262.0, 5374.0, 5676.0 (number of hits: 7)
28	5530	9	1	333	1	5327.0, 5255.0, 5388.0, 5463.0, 5448.0, 5698.0, 5412.0, 5408.0, 5373.0, 5535.0, 5435.0, 5687.0, 5355.0, 5641.0, 5436.0, 5628.0, 5617.0, 5488.0, 5485.0, 5499.0, 5414.0, 5377.0, 5723.0, 5577.0, 5433.0, 5671.0, 5302.0, 5294.0, 5330.0, 5721.0, 5646.0, 5362.0, 5262.0, 5649.0, 5424.0, 5661.0, 5283.0, 5276.0, 5347.0, 5304.0, 5715.0, 5459.0, 5701.0, 5357.0, 5407.0, 5543.0, 5611.0, 5514.0, 5494.0, 5364.0, 5380.0, 5513.0, 5366.0, 5601.0, 5318.0, 5599.0, 5654.0, 5612.0, 5370.0, 5524.0, 5648.0, 5676.0, 5476.0, 5593.0, 5409.0, 5281.0, 5251.0, 5668.0, 5403.0, 5663.0, 5704.0, 5395.0, 5351.0, 5385.0, 5383.0, 5679.0, 5420.0, 5531.0, 5480.0, 5311.0, 5719.0, 5483.0, 5422.0, 5427.0, 5450.0,

						5445.0, 5594.0, 5404.0, 5695.0, 5279.0, 5688.0, 5289.0, 5268.0, 5300.0, 5343.0, 5658.0, 5271.0, 5259.0, 5308.0, 5596.0 (number of hits: 7)
29	5530	9	1	333	1	5320.0, 5657.0, 5451.0, 5399.0, 5666.0, 5632.0, 5461.0, 5712.0, 5251.0, 5275.0, 5495.0, 5342.0, 5691.0, 5482.0, 5260.0, 5466.0, 5281.0, 5683.0, 5687.0, 5479.0, 5716.0, 5677.0, 5590.0, 5347.0, 5355.0, 5313.0, 5487.0, 5291.0, 5585.0, 5628.0, 5371.0, 5592.0, 5448.0, 5656.0, 5453.0, 5416.0, 5361.0, 5317.0, 5658.0, 5586.0, 5301.0, 5690.0, 5527.0, 5374.0, 5345.0, 5538.0, 5322.0, 5303.0, 5389.0, 5685.0, 5524.0, 5253.0, 5570.0, 5617.0, 5410.0, 5372.0, 5438.0, 5694.0, 5622.0, 5689.0, 5722.0, 5436.0, 5430.0, 5507.0, 5325.0, 5595.0, 5601.0, 5675.0, 5256.0, 5397.0, 5367.0, 5670.0, 5580.0, 5551.0, 5643.0, 5563.0, 5612.0, 5500.0, 5333.0, 5718.0, 5398.0, 5546.0, 5378.0, 5671.0, 5366.0, 5648.0, 5414.0, 5539.0, 5351.0, 5613.0, 5255.0, 5493.0, 5556.0, 5508.0, 5636.0, 5340.0, 5468.0, 5681.0, 5609.0, 5562.0 (number of hits: 4)
30	5530	9	1	333	1	5474.0, 5349.0, 5702.0, 5358.0, 5353.0, 5309.0, 5376.0, 5453.0, 5368.0, 5356.0, 5722.0, 5293.0, 5638.0, 5663.0, 5718.0, 5400.0, 5461.0, 5340.0, 5532.0, 5386.0, 5351.0, 5647.0, 5473.0, 5374.0, 5467.0, 5662.0, 5393.0, 5695.0, 5444.0, 5614.0, 5588.0, 5274.0, 5419.0, 5531.0, 5319.0, 5513.0, 5422.0, 5425.0, 5354.0, 5466.0, 5696.0, 5723.0, 5292.0, 5481.0, 5658.0, 5714.0, 5268.0, 5291.0, 5348.0, 5593.0, 5406.0, 5576.0, 5618.0, 5388.0, 5261.0, 5454.0, 5457.0, 5693.0, 5541.0, 5436.0, 5517.0, 5507.0, 5434.0, 5459.0, 5495.0, 5571.0, 5665.0, 5521.0, 5424.0, 5512.0, 5314.0, 5265.0, 5527.0, 5634.0, 5339.0, 5529.0, 5715.0, 5673.0, 5553.0, 5574.0, 5369.0, 5508.0, 5719.0, 5655.0, 5503.0, 5323.0, 5589.0, 5344.0, 5494.0, 5399.0, 5627.0, 5383.0, 5669.0, 5709.0, 5491.0, 5639.0, 5625.0, 5451.0, 5551.0, 5659.0 (number of hits: 5)