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

For

Fortinet, Inc.

899 Kifer Road,

Sunnyvale, CA 94086, USA

FCC ID: TVE-2417T112
IC: 7280B-2507T121
Models: FAP-221E+, FAP-223E+

Report Type:	**Product Type:**
DFS Report	Secured Wireless Access Point

Prepared By:	Frank Wang RF Engineer
Report Number:	R1808244-DFS Rev A
Report Date:	2018-12-14
Reviewed By:	Simon Ma RF Lead

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	R1808244-DFS	DFS Report	2018-10-10
1	R1808244-DFS Rev A	Corrected general information in Section 2.3, 2.4, and 2.5 Corrected typo on Page 224-227 of the report	2018-12-14

1 General Description

1.1 Product Description for Equipment under Test (EUT)

This test and measurement report was prepared on behalf of Fortinet, Inc., and their product models: FAP-221E+; FAP-223E+, FCC ID: TVE-2417T112, IC: 7280B-2507T121, or the "EUT" as referred to in this report. The EUT is a secured wireless access point.

1.2 Objective

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

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

1.3 Related Submittal(s)/Grant(s)

N/A

1.4 Test Methodology

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

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

1.5 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in the field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Parameter	Measurement uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.57 dB
Power Spectral Density, conducted	±1.48dB
Unwanted Emissions, conducted	±1.57dB
All emissions, radiated	±4.0 dB
AC power line Conducted Emission	±2.0 dB
Temperature	±2 º C
Humidity	±5 %
DC and low frequency voltages	±1.0 %
Time	±2 %
Duty Cycle	±3 %

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 Appendix B, Phase I Procedures of the APEC Mutual Recognition Arrangement (MRA). BACL's BSMI Lab Code Number is: SL2-IN-E-1002R

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

1.7 Test Facility Accreditations

Bay Area Compliance Laboratories Corp. (BACL) is:

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

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

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

- For the USA (Federal Communications Commission):
    1- All Unlicensed radio frequency devices within FCC Scopes A1, A2, A3, and A4;
    2- All Licensed radio frequency devices within FCC Scopes B1, B2, B3, and B4;
    3- All Telephone Terminal Equipment within FCC Scope C.
- For the Canada (Innovation, Science and Economic development Canada - ISEDC):
    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 (Infocomm Media Development Authority (IMDA)):
    1 All Line Terminal Equipment: All Technical Specifications for Line Terminal Equipment – Table 1 of IDA MRA Recognition Scheme: 2011, Annex 2
    2. All Radio-Communication Equipment: All Technical Specifications for Radio-Communication Equipment – Table 2 of IDA MRA Recognition Scheme: 2011, Annex 2

- For the Hong Kong Special Administrative Region:
  1 All Radio Equipment, per KHCA 10XX-series Specifications;
  2 All GMDSS Marine Radio Equipment, per HKCA 12XX-series Specifications;
  3 All Fixed Network Equipment, per HKCA 20XX-series Specifications.
- For Japan:
  1 MIC Telecommunication Business Law (Terminal Equipment):
  - All Scope A1 - Terminal Equipment for the Purpose of Calls;
  - All Scope A2 - Other Terminal Equipment
  2 Radio Law (Radio Equipment):
  - All Scope B1 - Specified Radio Equipment specified in Article 38-2-2, paragraph 1, item 1 of the Radio Law
  - All Scope B2 - Specified Radio Equipment specified in Article 38-2-2, paragraph 1, item 2 of the Radio Law
  - All Scope B3 - Specified Radio Equipment specified in Article 38-2-2, paragraph 1, item 3 of the Radio Law

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

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

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

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

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

5 Other
- For Water Coolers (ver. 3.0)

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

- Australia: ACMA (Australian Communication and Media Authority) – APEC Tel MRA -Phase I;
- Canada: (Innovation, Science and Economic development Canada - ISEDC) Foreign Certification Body – FCB – APEC Tel MRA -Phase I & Phase II;
- Chinese Taipei (Republic of China – Taiwan):
  - BSMI (Bureau of Standards, Metrology and Inspection) APEC Tel MRA -Phase I;

  - NCC (National Communications Commission) APEC Tel MRA -Phase I;
- European Union:
  - EMC Directive 2014/30/EU US-EU EMC & Telecom MRA CAB (NB)
  - Radio Equipment (RE) Directive 2014/53/EU US-EU EMC & Telecom MRA CAB (NB)
  - Low Voltage Directive (LVD) 2014/35/EU
- Hong Kong Special Administrative Region: (Office of the Telecommunications Authority – OFTA) APEC Tel MRA -Phase I & Phase II
- Israel – US-Israel MRA Phase I
- Republic of Korea (Ministry of Communications - Radio Research Laboratory) APEC Tel MRA -Phase I
- Singapore: (Infocomm Media Development Authority (IMDA)) APEC Tel MRA -Phase I & Phase II;
- Japan: VCCI - Voluntary Control Council for Interference US-Japan Telecom Treaty VCCI Side Letter-
- USA:
  - ENERGY STAR Recognized Test Laboratory – US EPA
  - Telecommunications Certification Body (TCB) – US FCC;
  - Nationally Recognized Test Laboratory (NRTL) – US OSHA
- Vietnam: APEC Tel MRA -Phase I;

2 EUT Test Configuration

2.1 Justification

The EUT was configured for testing according to FCC CFR47 §15.407 (h), RSS-247 Issue 2and KDB: 905462 D02 UNII DFS Compliance Procedures New Rules v02.

2.2 EUT Exercise Software

The test firmware used was Putty.exe provided by *Fortinet Inc.*, the software is comply with the standard requirements being tested against.

2.3 Local Support Equipment

Manufacturer	Description	Model
Dell	Laptop	Latitude 7480
Dell	Laptop	Latitude E7470
Fortinet	Controller	FWF-60D-POE

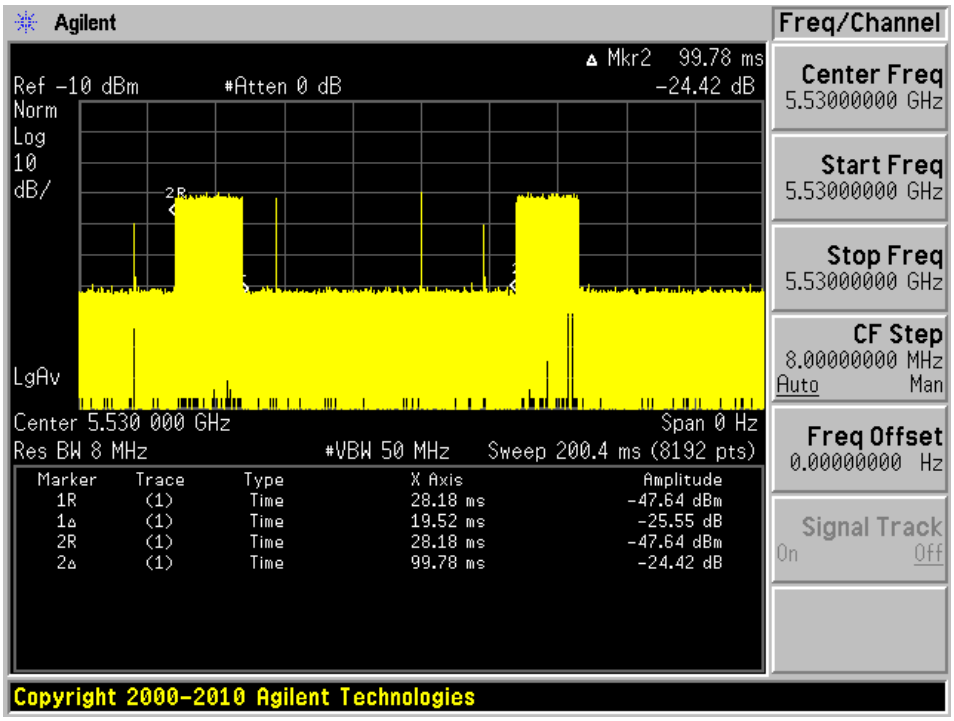
2.4 Interface Ports and Cabling

Cable Description	Length (M)	From	To
RJ 45 (CAT 5)	<3	Controller	POE
RJ 45 (CAT 5)	<3	UUT	POE
RJ 45 (CAT 5)	<3	Controller	Supporting Laptop

2.5 Power Supply and Line Filters

Manufacturer	Description	Model
MICROSEMI CORP	POE injector	PD-3501G/AC

2.6 Duty Cycle



3 Summary of Test Results

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

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

4 Applicable Standards

4.1 DFS Requirement

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

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

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

Table 2: Applicability of DFS requirements during normal operation

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

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

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

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

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

Table 4: DFS Response Requirement Values

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

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

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

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

Table 5: Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (Microseconds)	PRI (Microseconds)	Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a Test B: 15 unique PRI values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A	$\text{Roundup}\left\{\left(\frac{1}{360}\right)\cdot\left(\frac{19\cdot 10^6}{\text{PRI}_{\mu\text{sec}}}\right)\right\}$	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

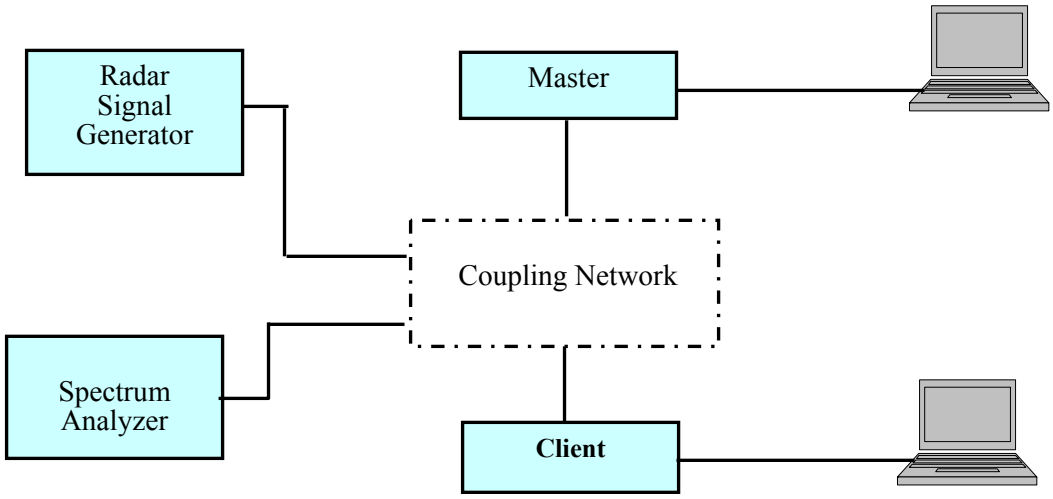
Table 7: Frequency Hopping Radar Test Signal

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

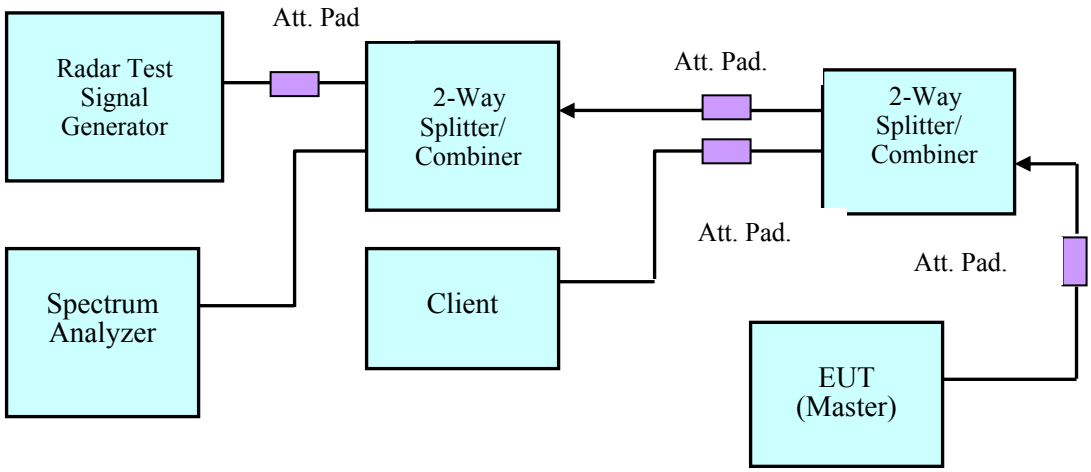
4.2 DFS Measurement System

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

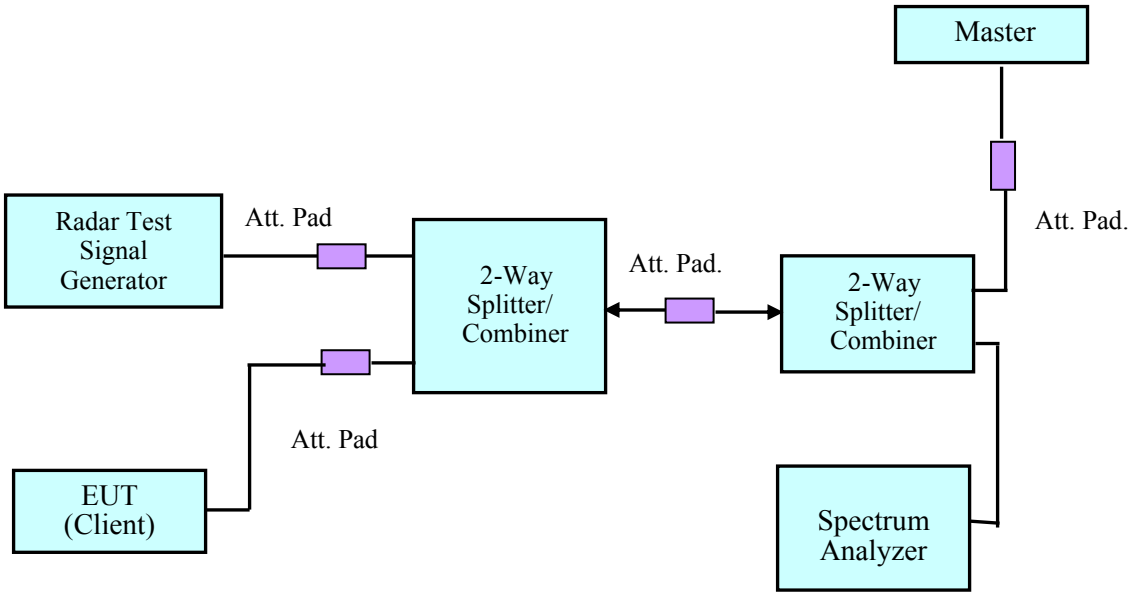
4.3 System Block Diagram



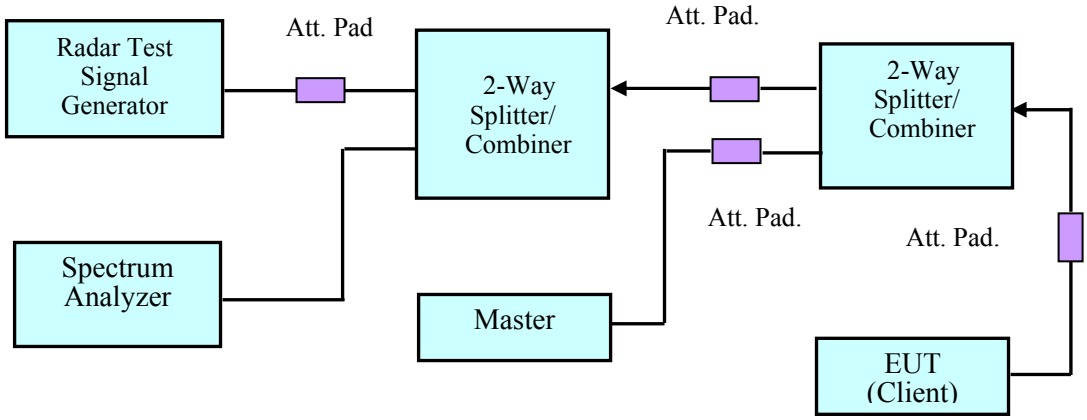
4.4 Conducted Method



Setup for Master with injection at the Master

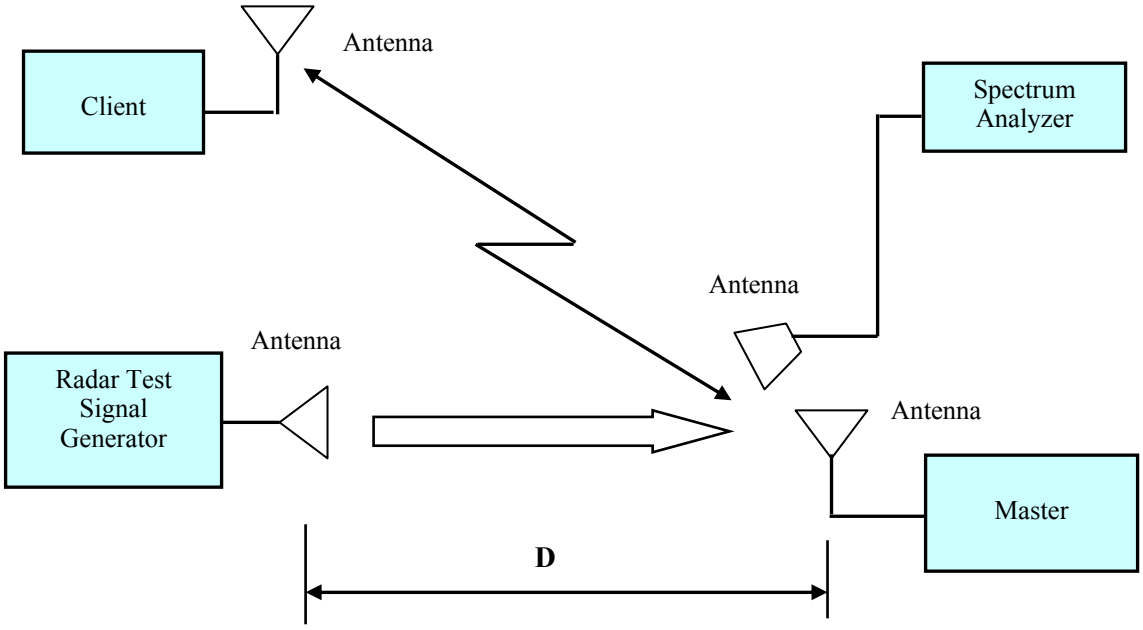


Setup for Client with injection at the Master



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 wass generated by using Iperf.

5.2 Antenna Description

The brand/model names in the following table are all refer to the identical product.

Brand Name	Model Name	Difference	
		Internal antenna	External antenna
Fortinet	FAP-221E+	V	
Fortinet	FAP-223E+		V
Note 1: The only difference between FAP-221E+ and FAP-223E+ is the layout of the antenna.			

FAP-221E+

Antenna	Port	Brand	Mode Name	Antenna Type	Connector
1	1	InPaq	WA-M-LA-01-036	PIFA Antenna	I-PEX
2	2	InPaq	WA-M-LA-06-002	PIFA Antenna	I-PEX
3	1	InPaq	WA-M-LC-05-002	PIFA Antenna	I-PEX
4	2	InPaq	WA-M-LC-02-008	PIFA Antenna	I-PEX
5	1	InPaq	ACA-5036-A2-CC-S	Chip	I-PEX

Antenna	Gain (dBi)		
	2.4 GHz	BT	5 GHz
1	3.89	-	-
2	3.89	-	-
3	-	-	5.55
4	-	-	5.55
5	-	2.93	-

FAP-223E+

Antenna	Port	Brand	Mode Name	Antenna Type	Connector
1	1	WHA YU	C107-511533-A	Dipole Antenna	I-PEX
2	2	WHA YU	C107-511533-A	Dipole Antenna	I-PEX
3	1	WHA YU	C107-511533-A	Dipole Antenna	I-PEX
4	2	WHA YU	C107-511533-A	Dipole Antenna	I-PEX
5	1	InPaq	ACA-5036-A2-CC-S	Chip	I-PEX

Antenna	Gain (dBi)		
	2.4G	BT	5G
1	2.0	-	-
2	2.0	-	-
3	-	-	3.0
4	-	-	3.0
5	-	2.93	-

For 5GHz function:

For IEEE 802.11 a/n/ac mode (2TX/2RX)
Ant.1 and Ant.2 could transmit/receive simultaneously.

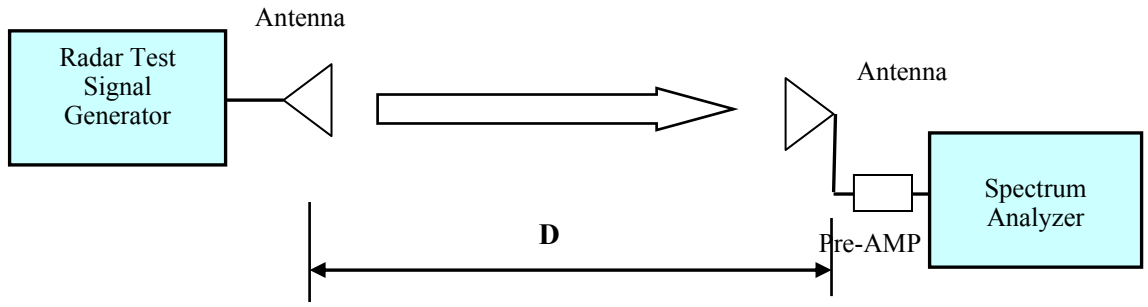
FAP-223E+ is used for DFS testing as it has smaller antenna gain which is worst case.

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	E4446A	MY48250238	2018-05-18	1 year
A. H. Systems	Antenna Horn	SAS-200/571	261	2017-05-16	2 years
EMCO	Antenna Horn	3115	9511-4627	2018-03-28	2 years
Mini-Circuits	Splitter/Combiner	2FSC-2-10G	0349	N/A	N/A
Narda	Splitter/Combiner	4326B-2	03514	N/A	N/A
Midwest	Attenuator	290-30	N/A	N/A	N/A
Mini-Circuits	Attenuator	BW-S30W2	N/A	N/A	N/A

Statement of Traceability: BACL Corp. *attests that all of the calibrations on the equipment items listed above were traceable to NIST or to another internationally recognized National Metrology Institute (NMI), and were compliant with A2LA Policy P102 (dated 09 June 2016) "A2LA Policy on Metrological Traceability".*

5.4 Radar Waveform Calibration



Radiated Calibration Setup Block Diagram

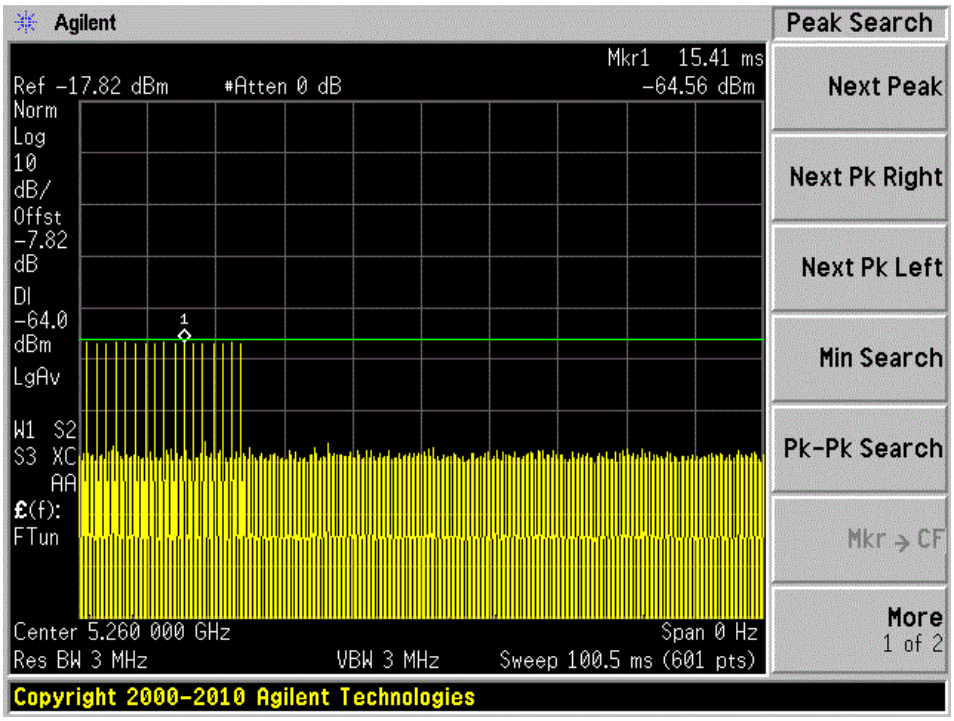
5.5 Test Environmental Conditions

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

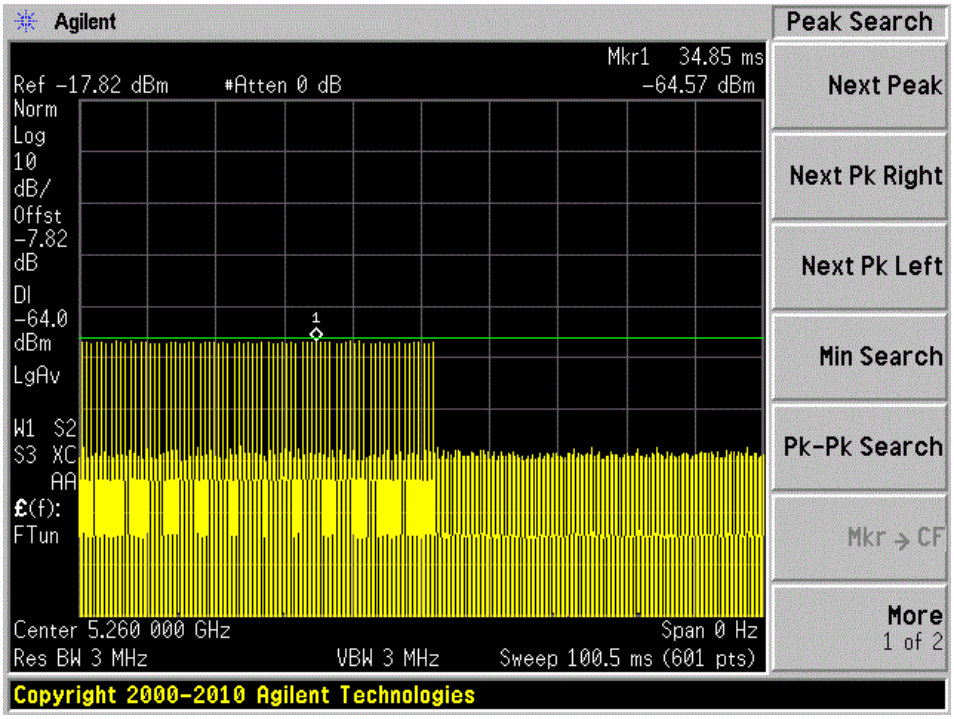
Testing was performed by Frank from 2018-08-24 to 2018-09-19 at the DFS site.

Plots of Radar Waveforms

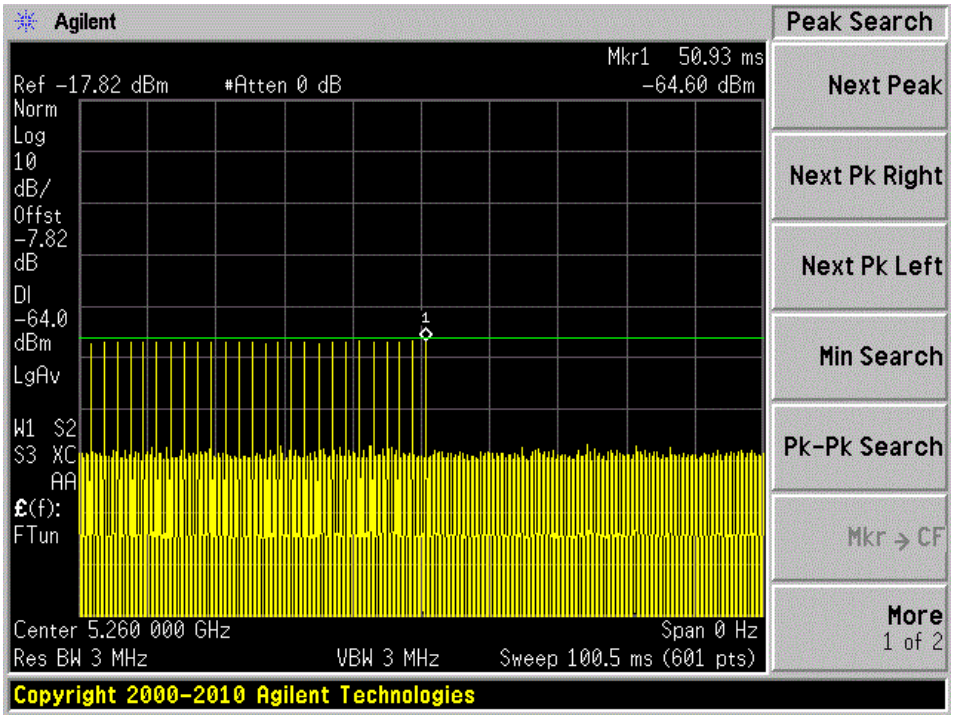
5260 MHz Type 0 Calibration



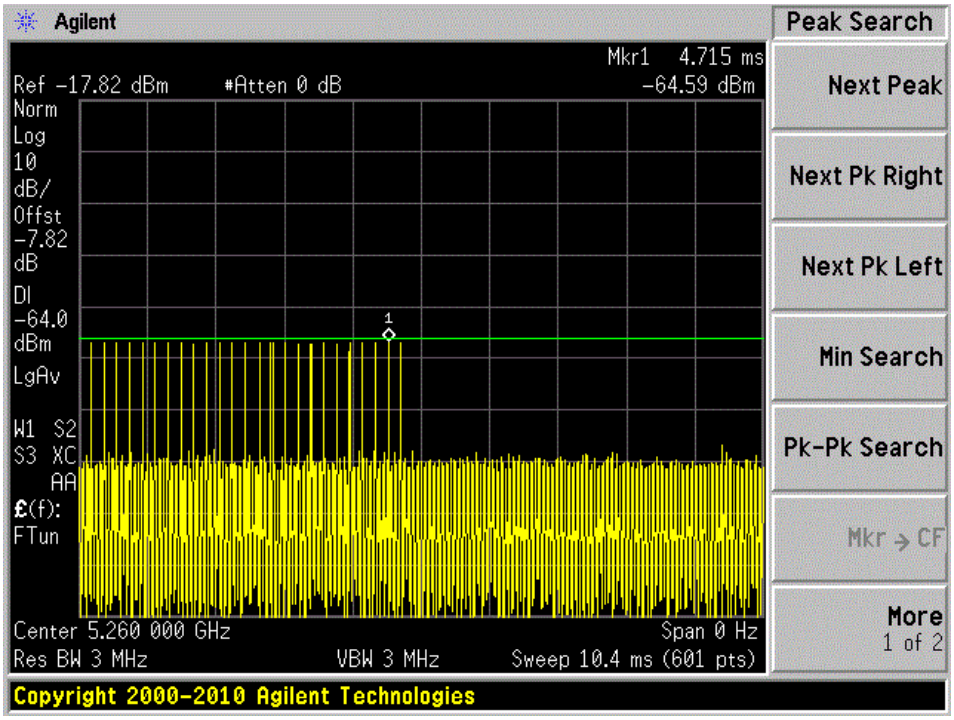
5260 MHz Type 1A Calibration



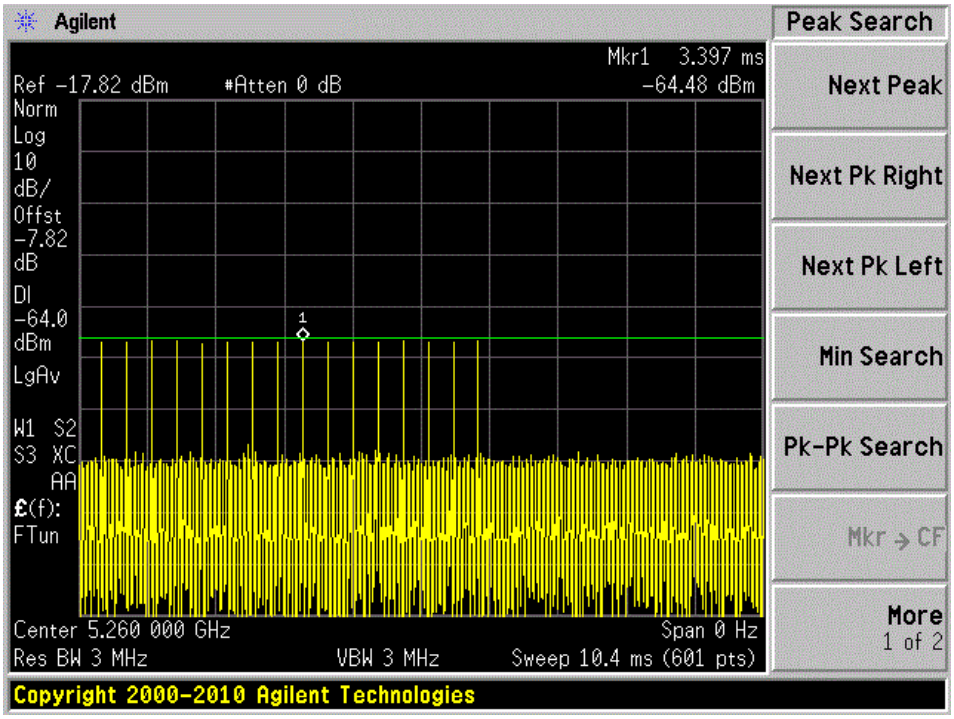
5260 MHz Type 1B Calibration



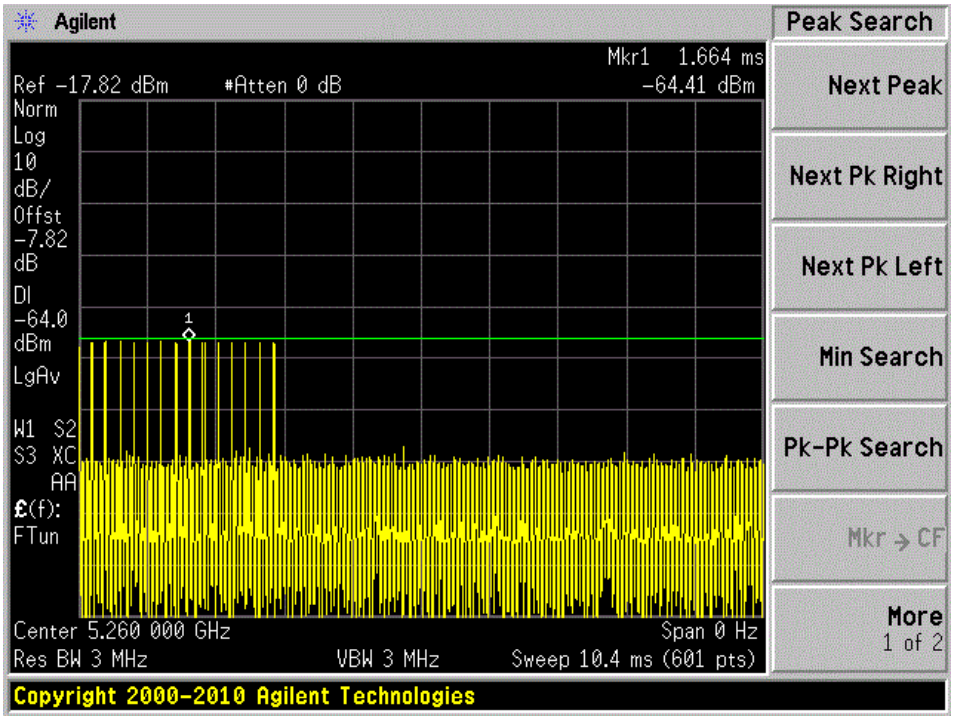
5260 MHz Type 2 Calibration



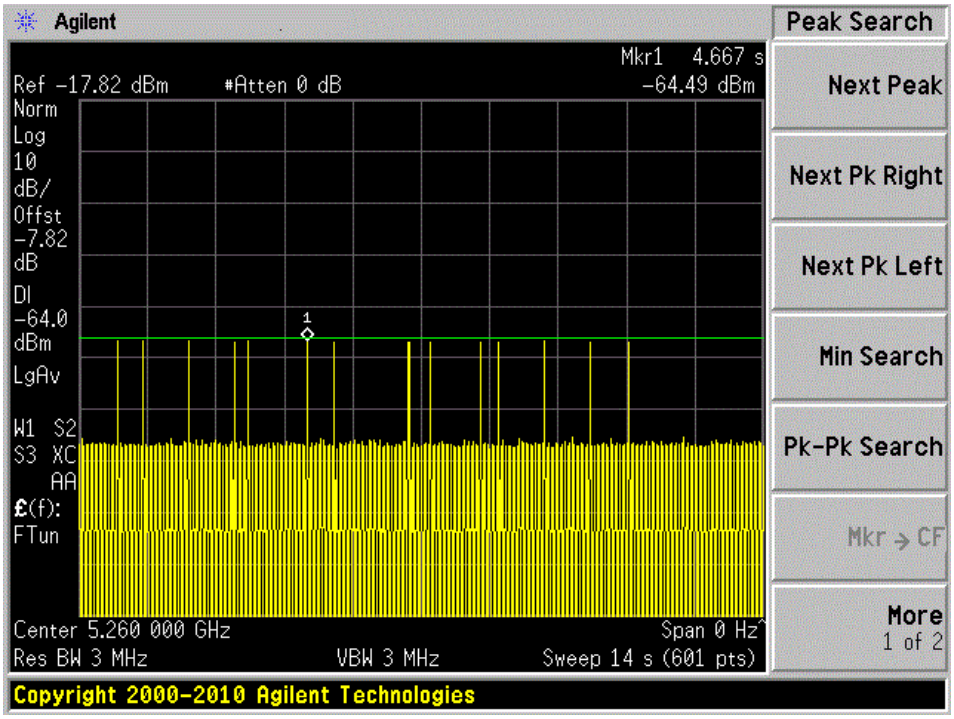
5260 MHz Type 3 Calibration



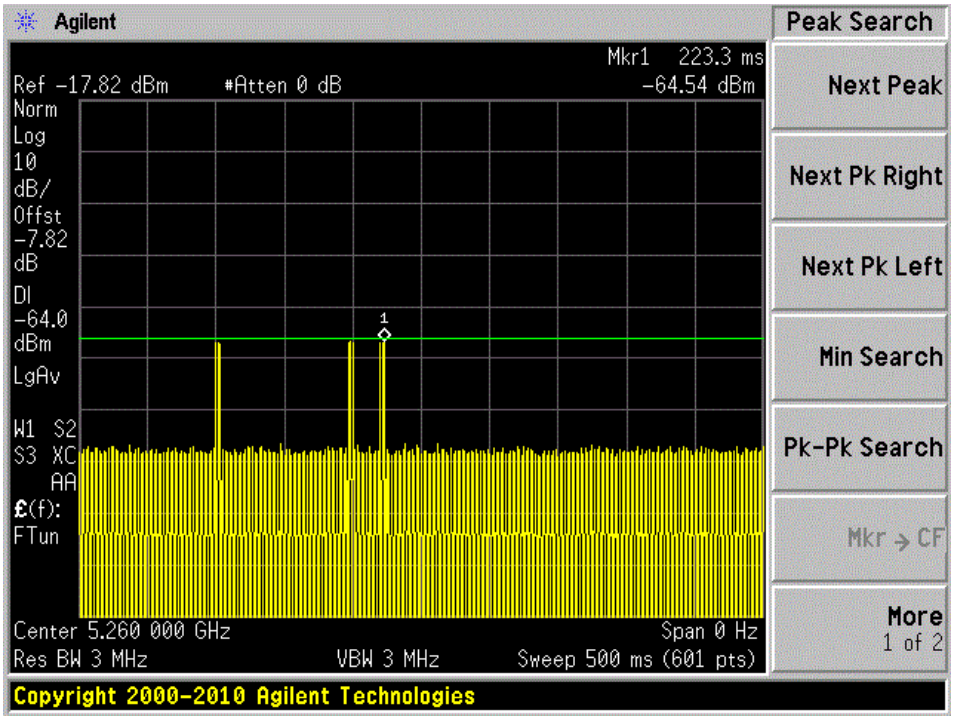
5260 MHz Type 4 Calibration



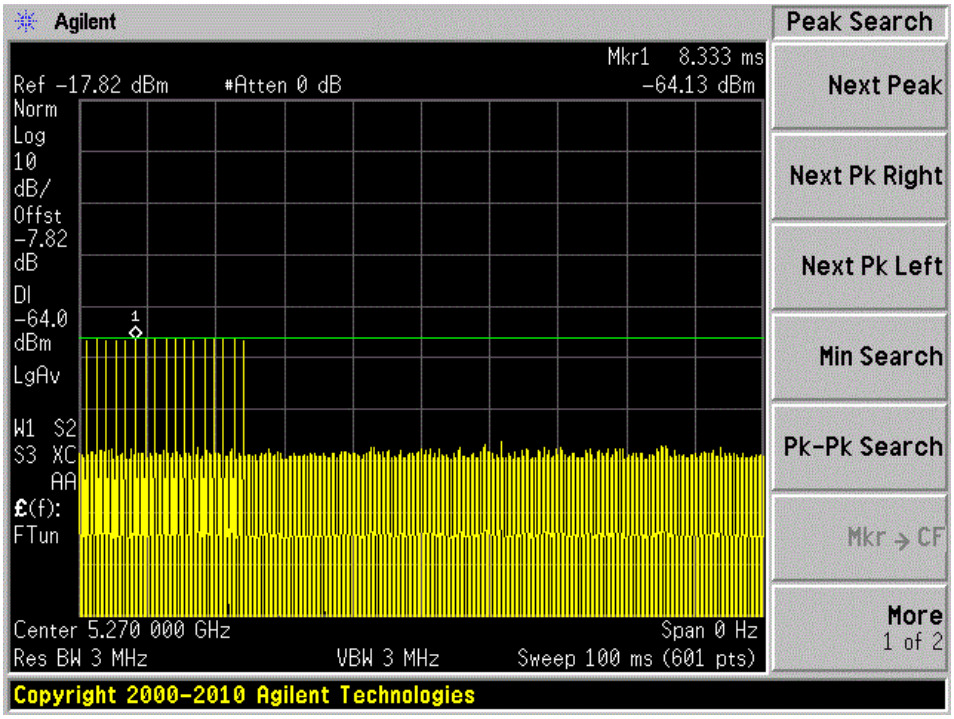
5260 MHz Type 5 Calibration



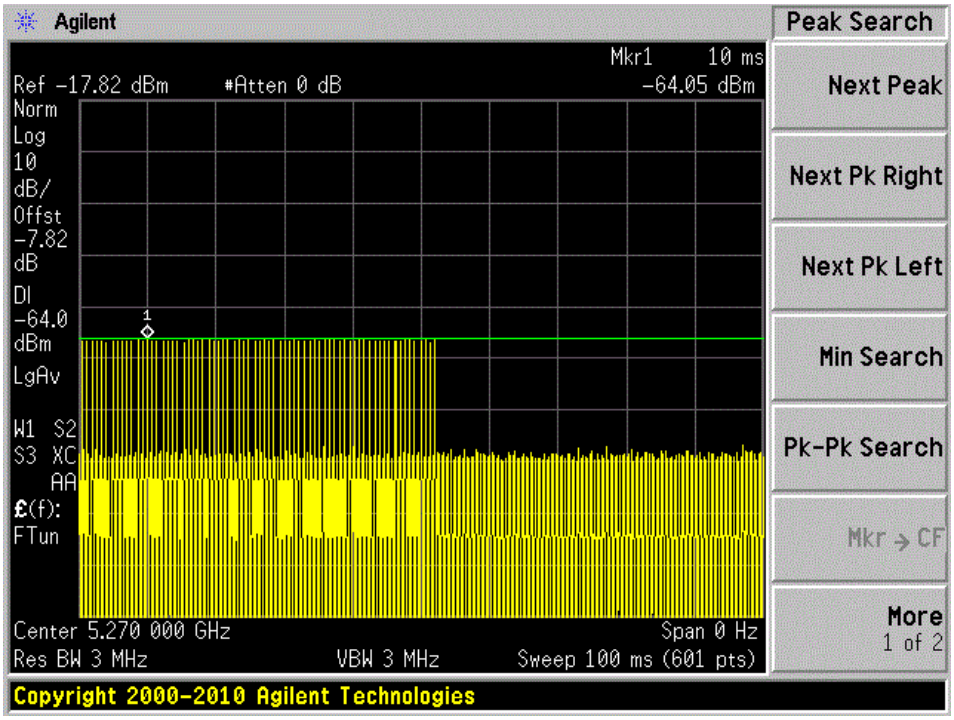
5260 MHz Type 6 Calibration



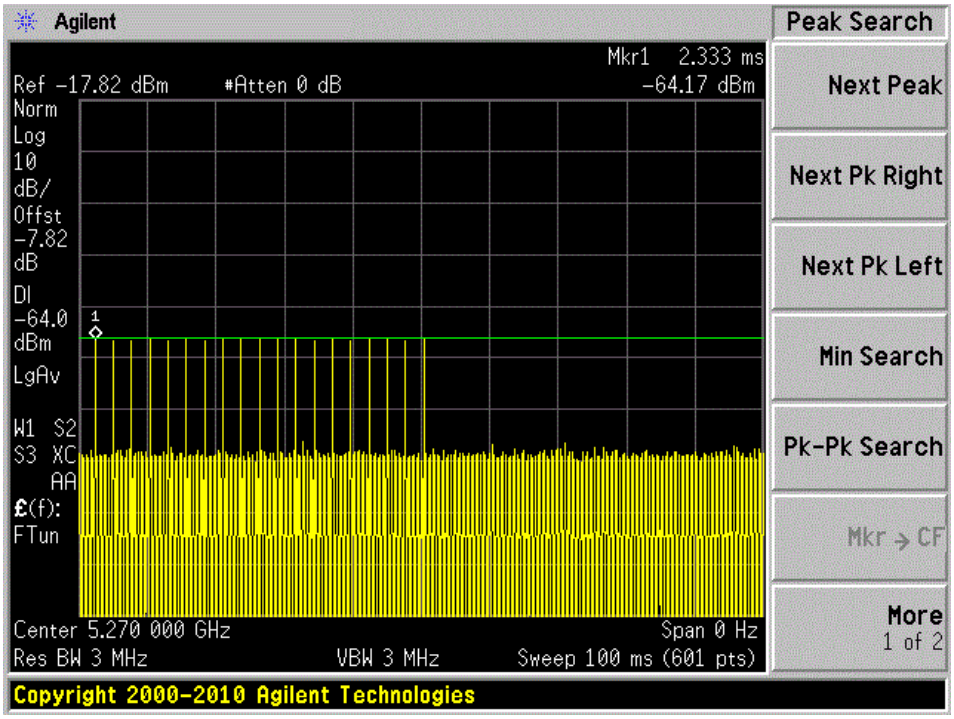
5270 MHz Type 0 Calibration



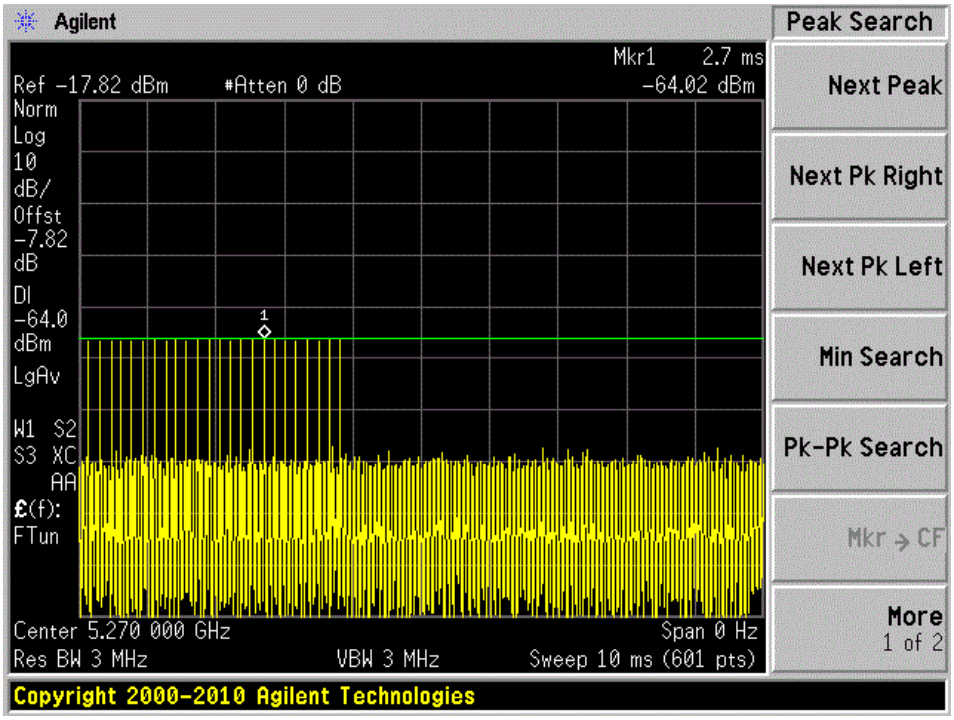
5270 MHz Type 1A Calibration



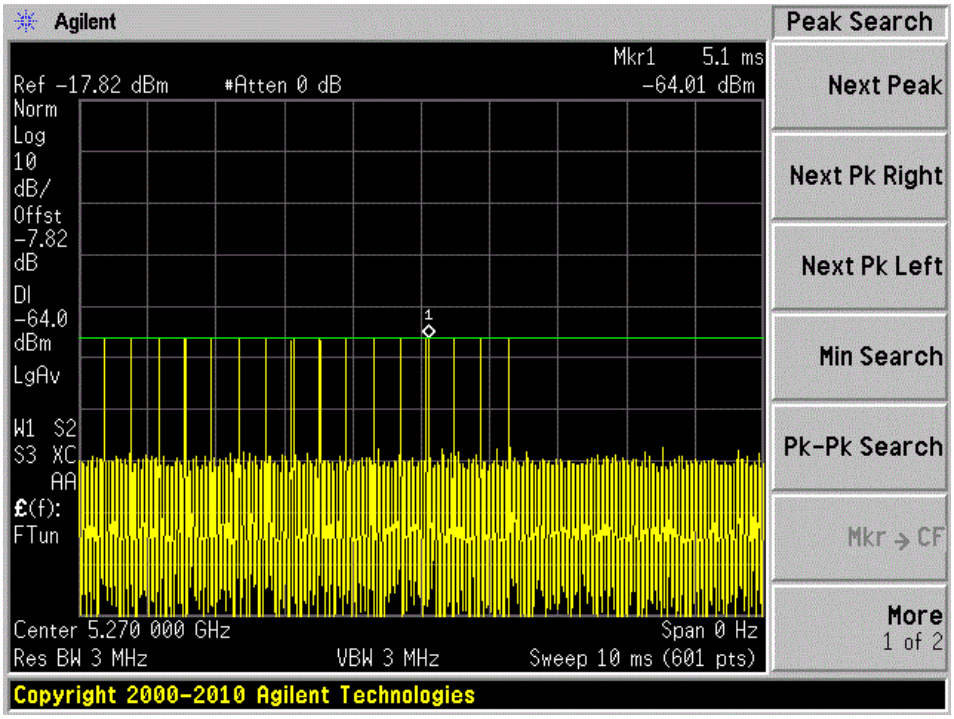
5270 MHz Type 1B Calibration



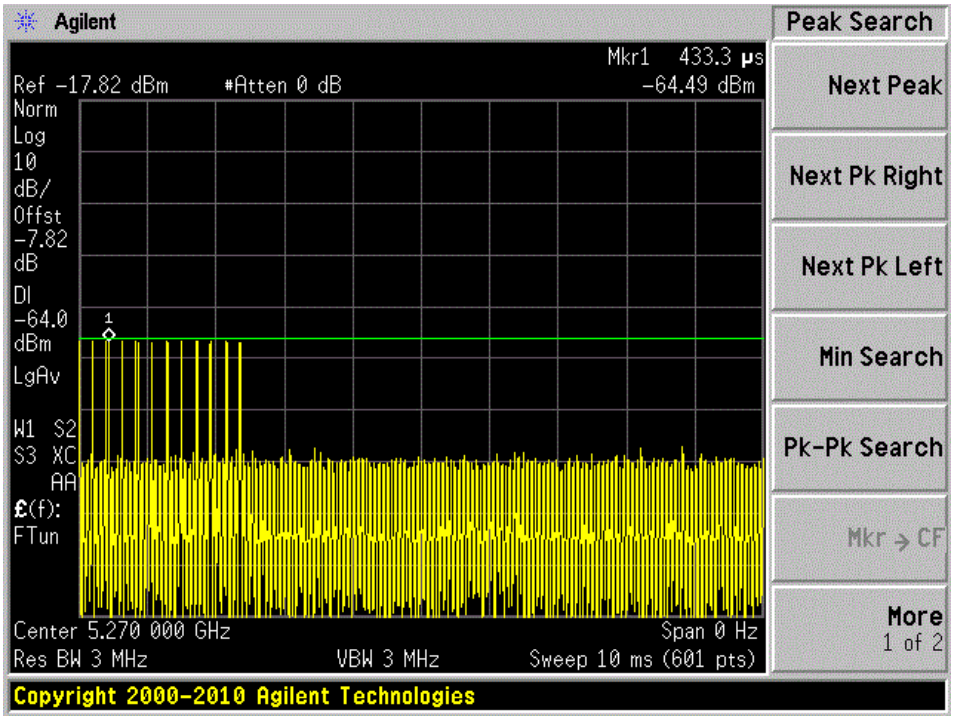
5270 MHz Type 2 Calibration



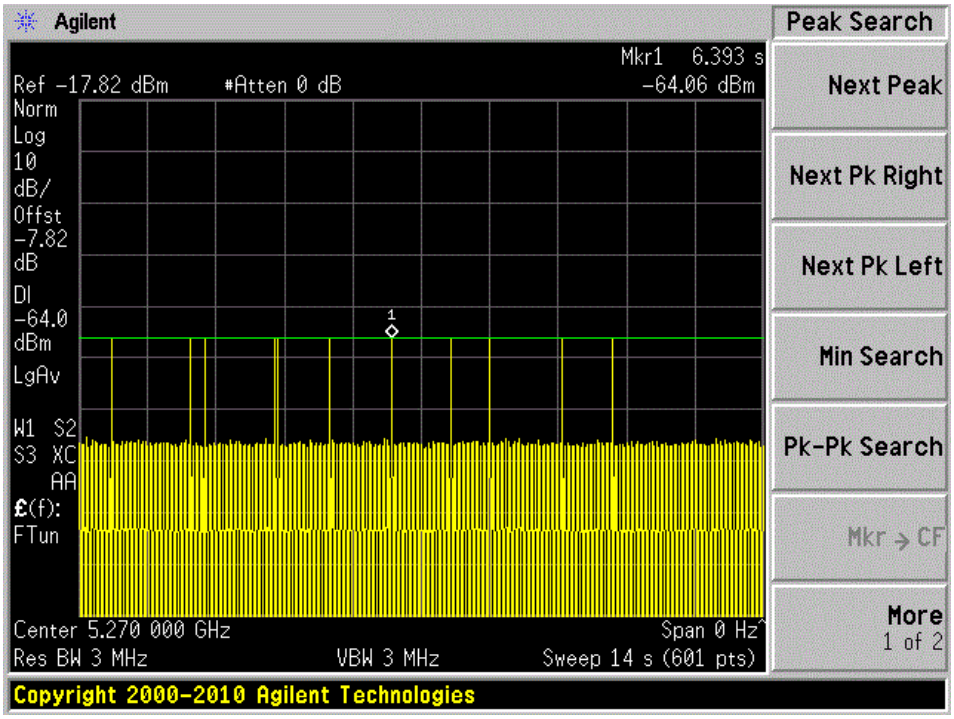
5270 MHz Type 3 Calibration



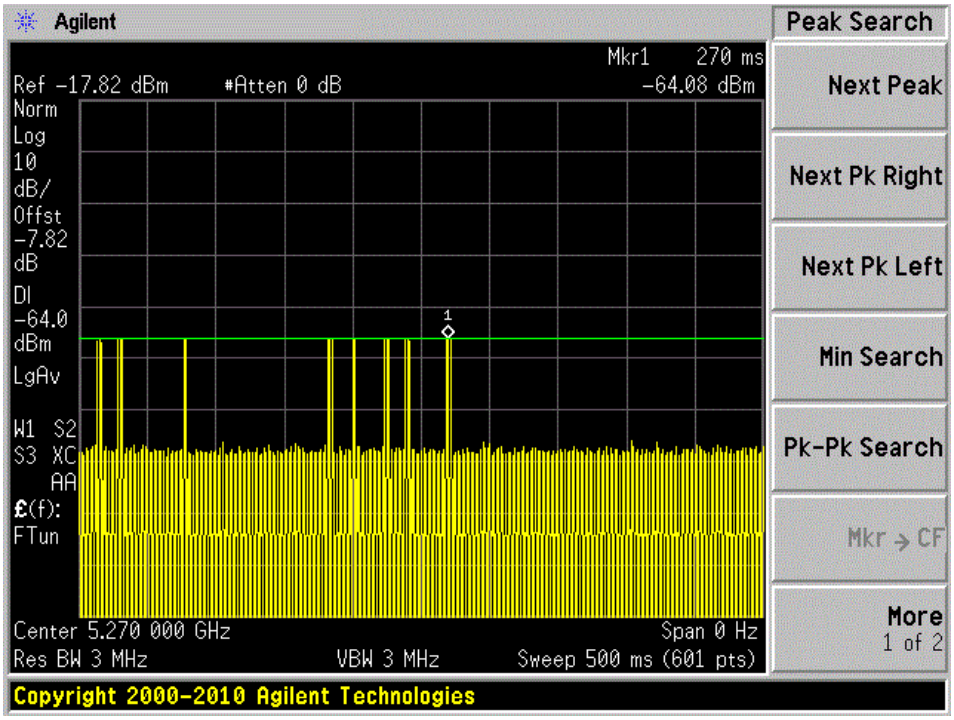
5270 MHz Type 4 Calibration



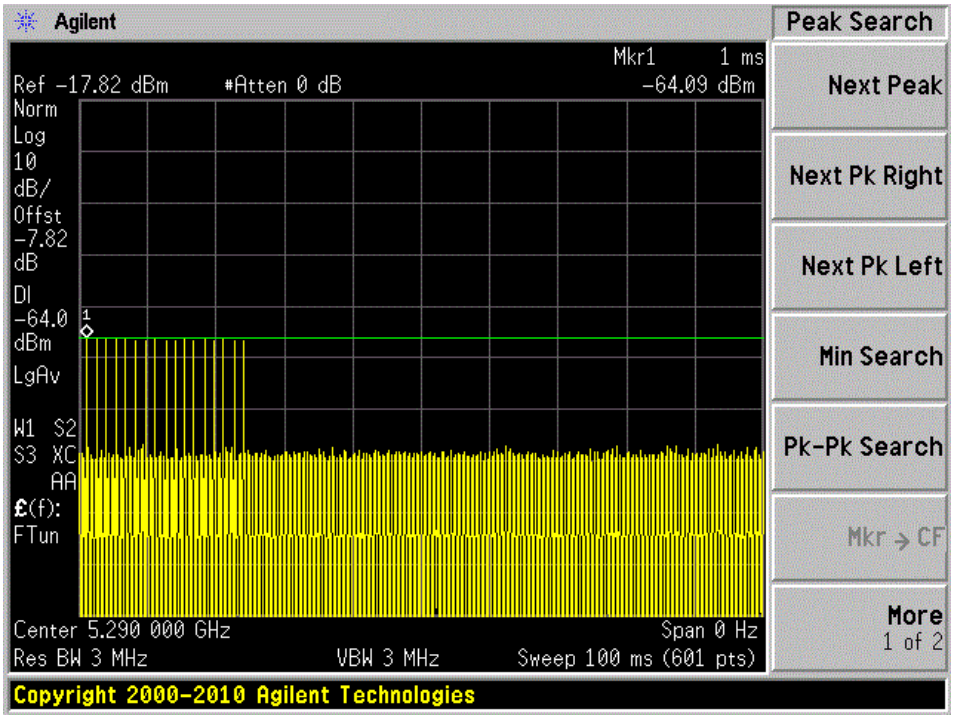
5270 MHz Type 5 Calibration



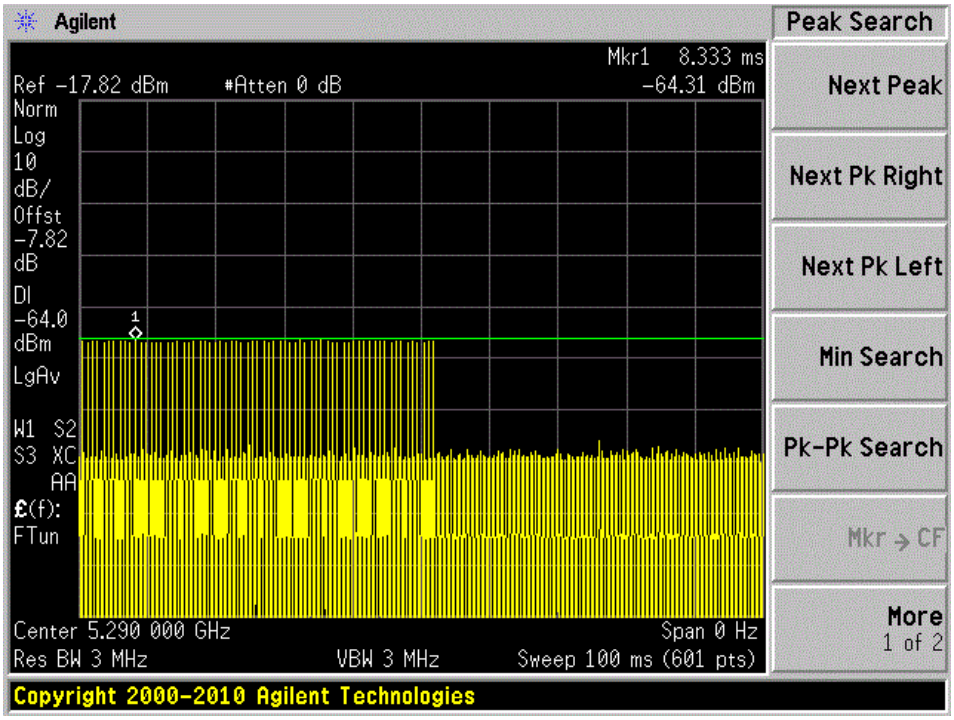
5270 MHz Type 6 Calibration



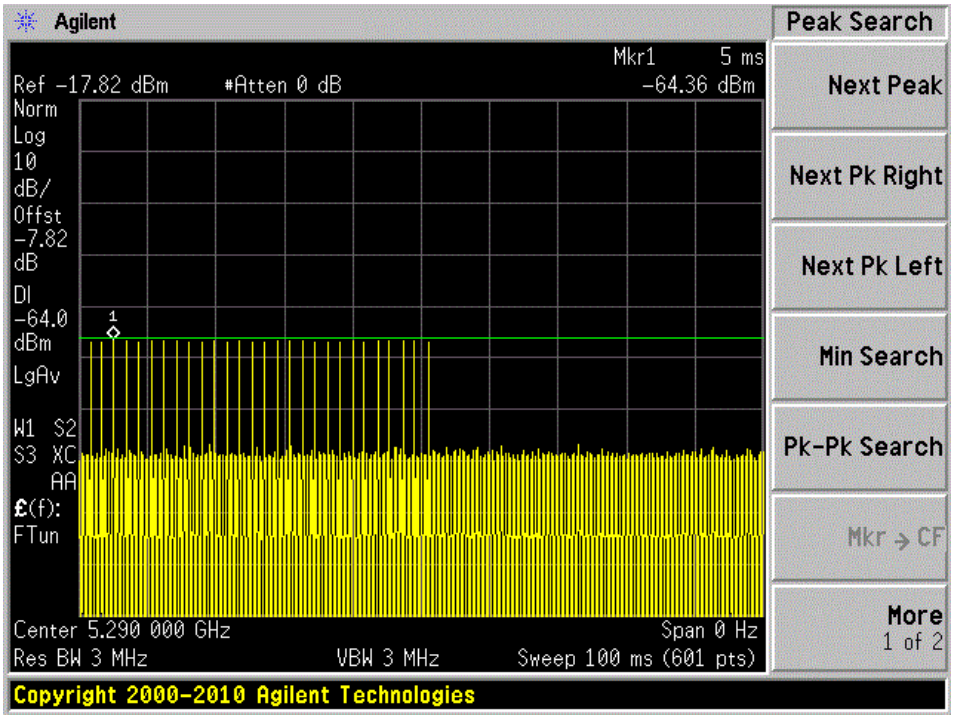
5290 MHz Type 0 Calibration



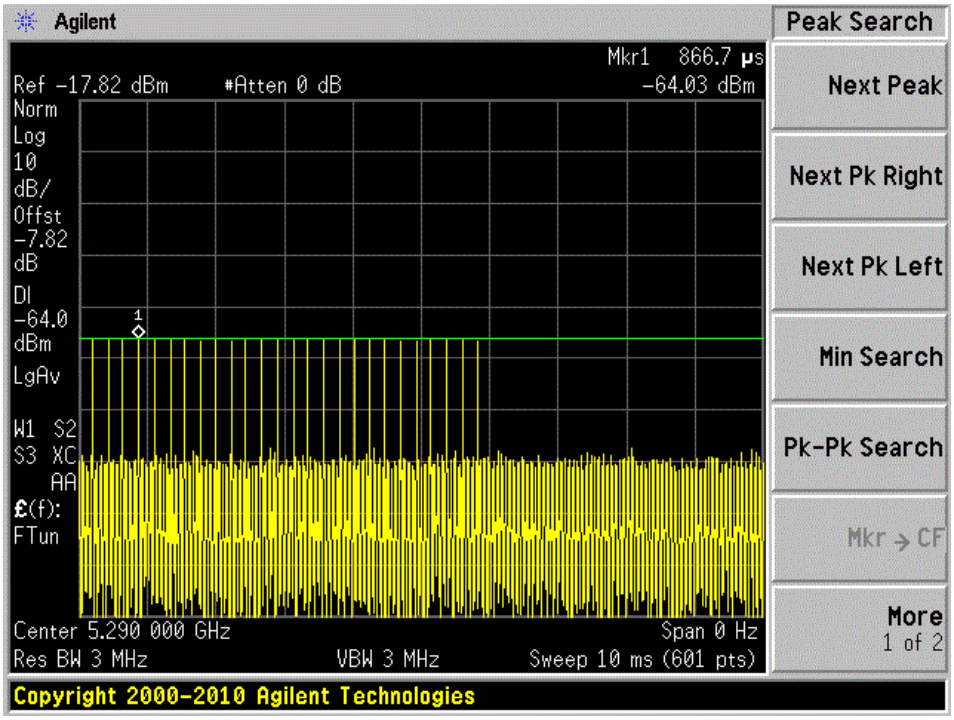
5290 MHz Type 1A Calibration



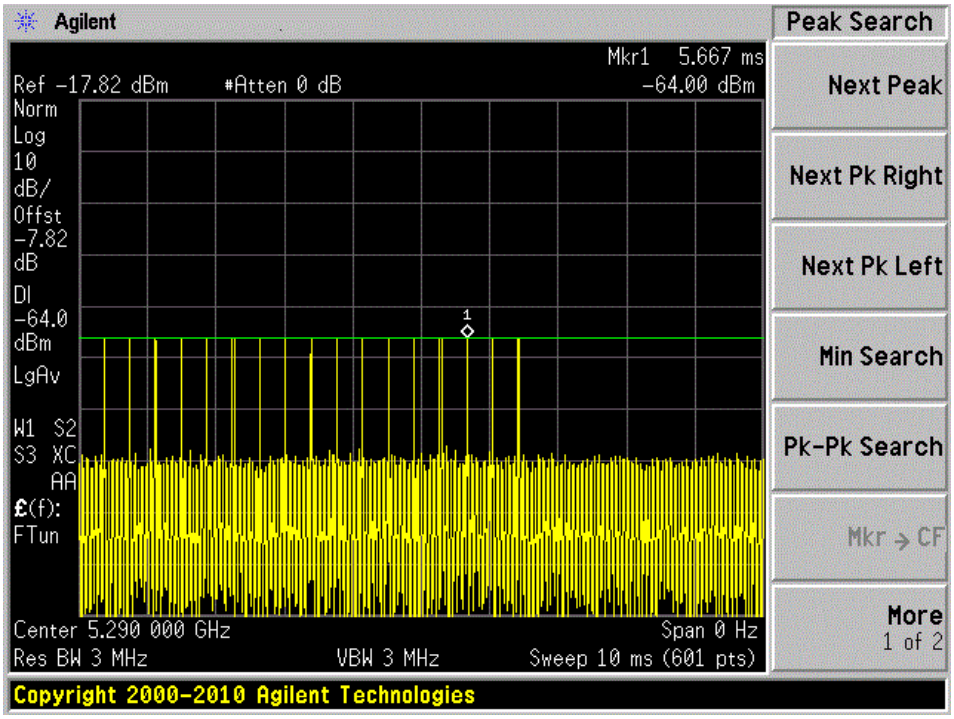
5290 MHz Type 1B Calibration



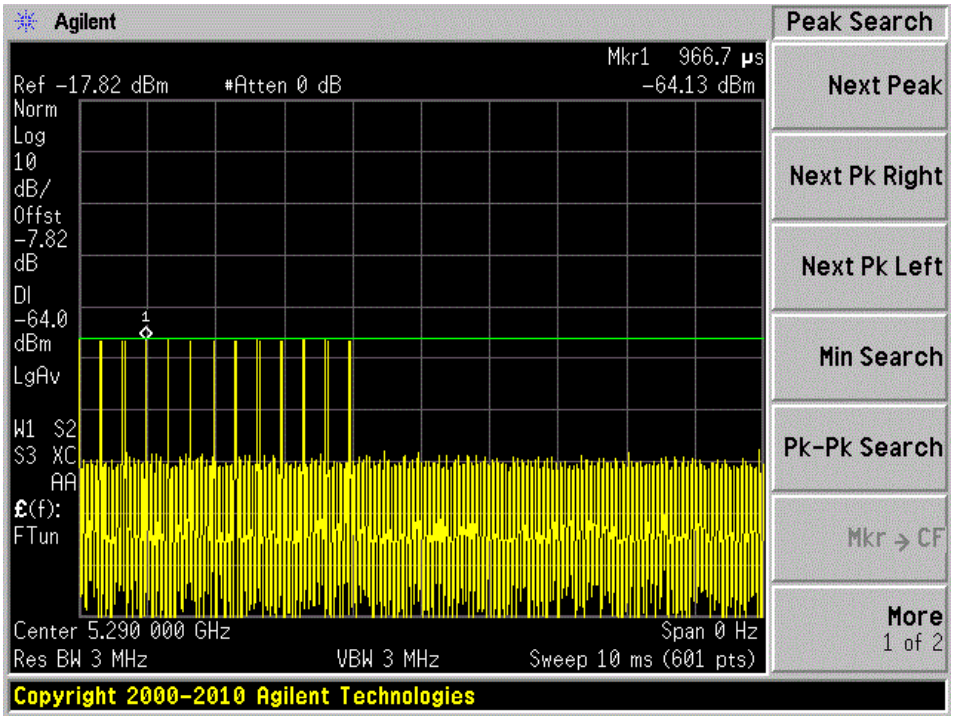
5290 MHz Type 2 Calibration



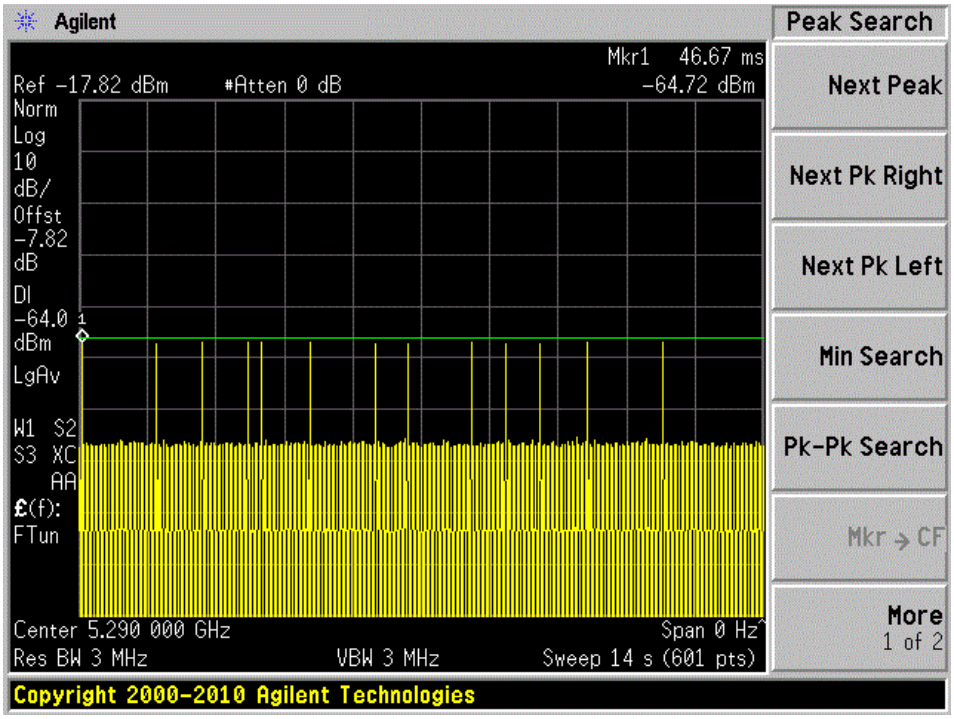
5290 MHz Type 3 Calibration



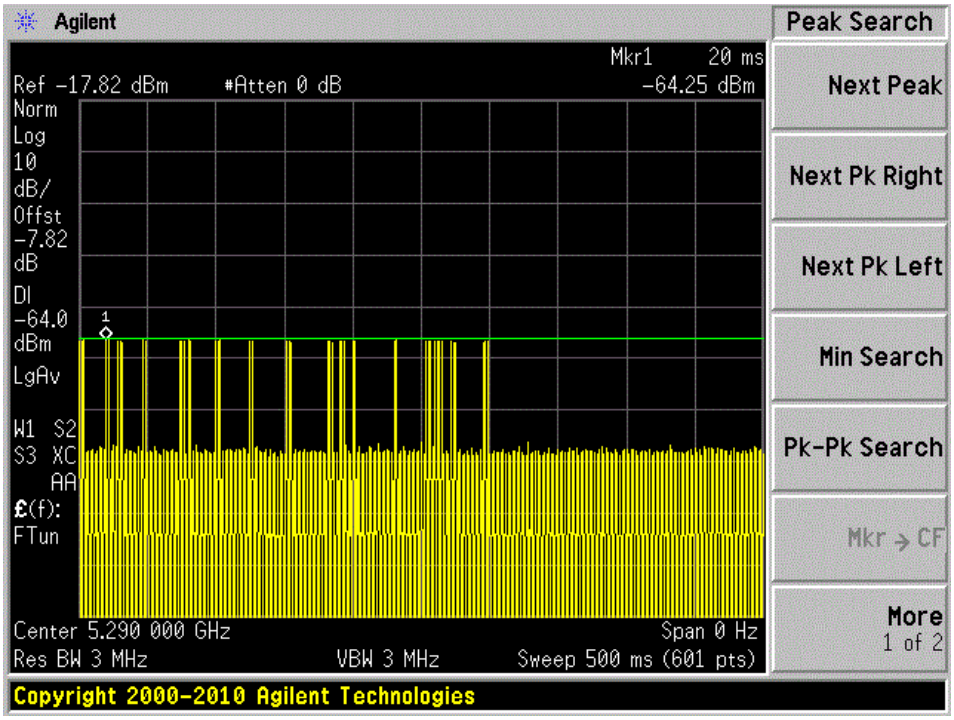
5290 MHz Type 4 Calibration



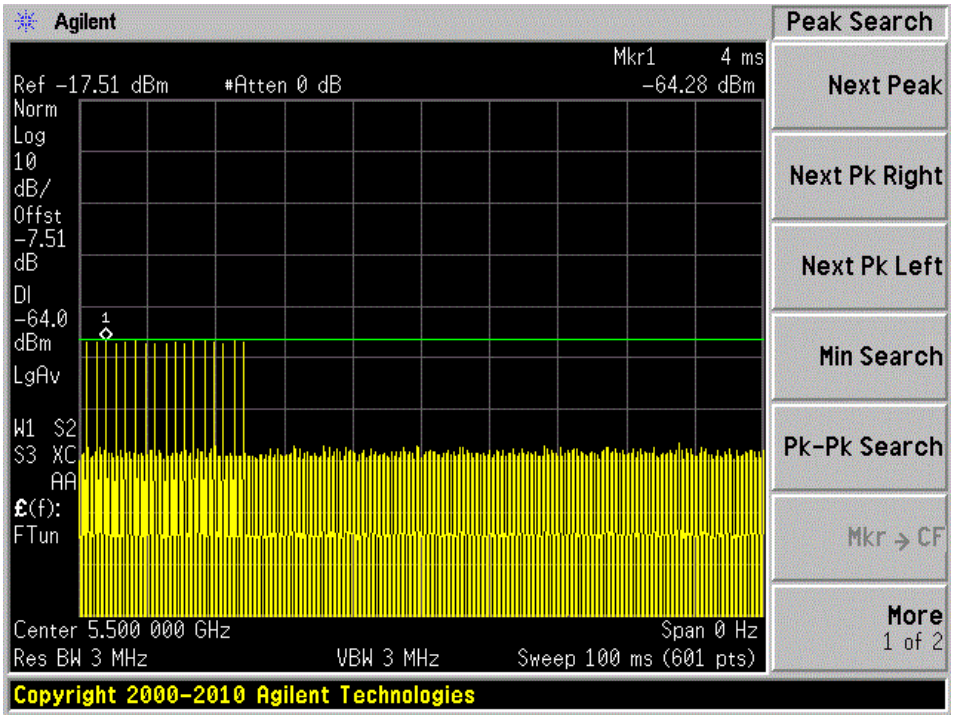
5290 MHz Type 5 Calibration



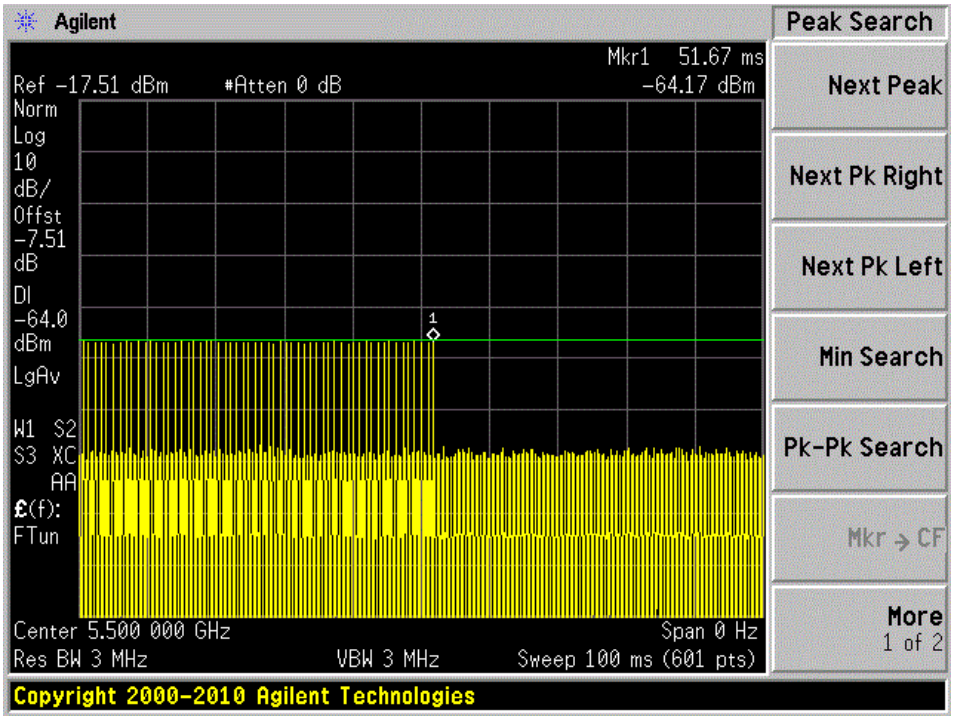
5290 MHz Type 6 Calibration



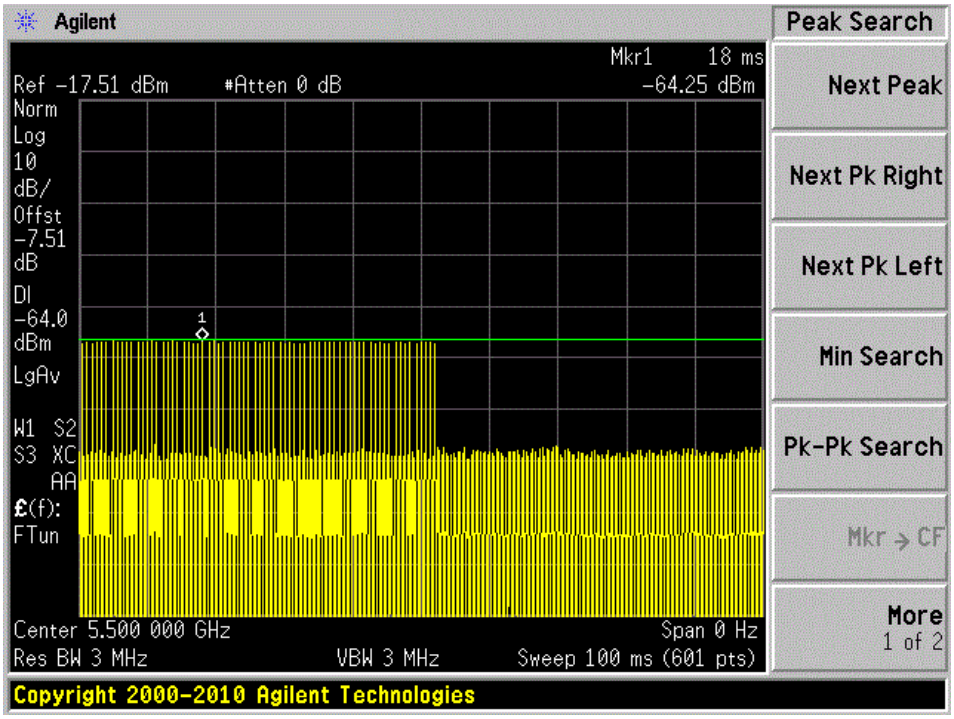
5500 MHz Type 0 Calibration



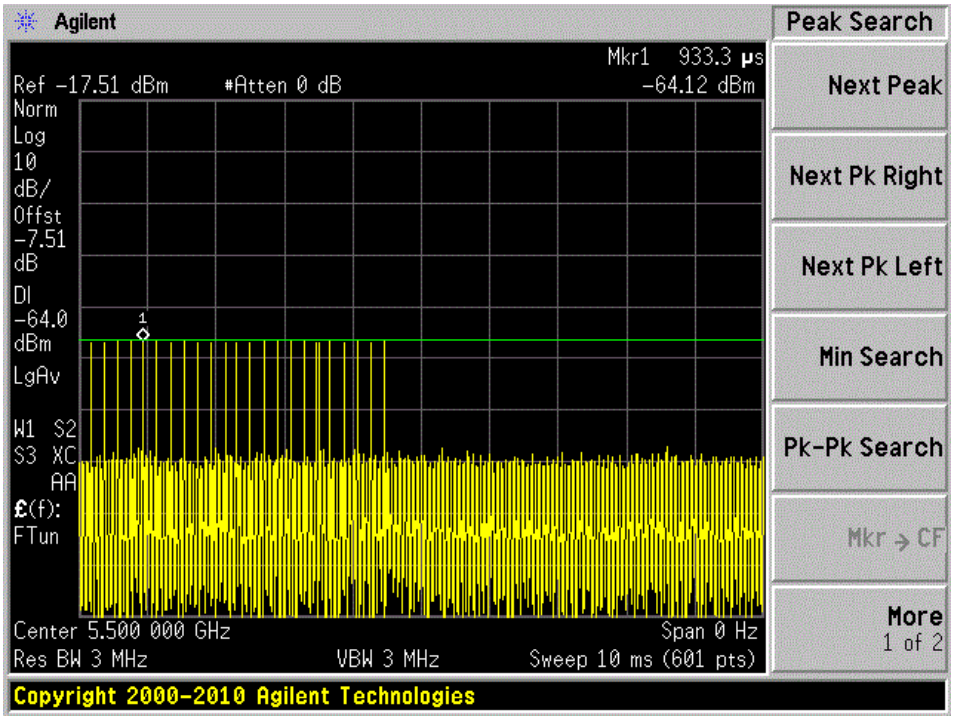
5500 MHz Type 1A Calibration



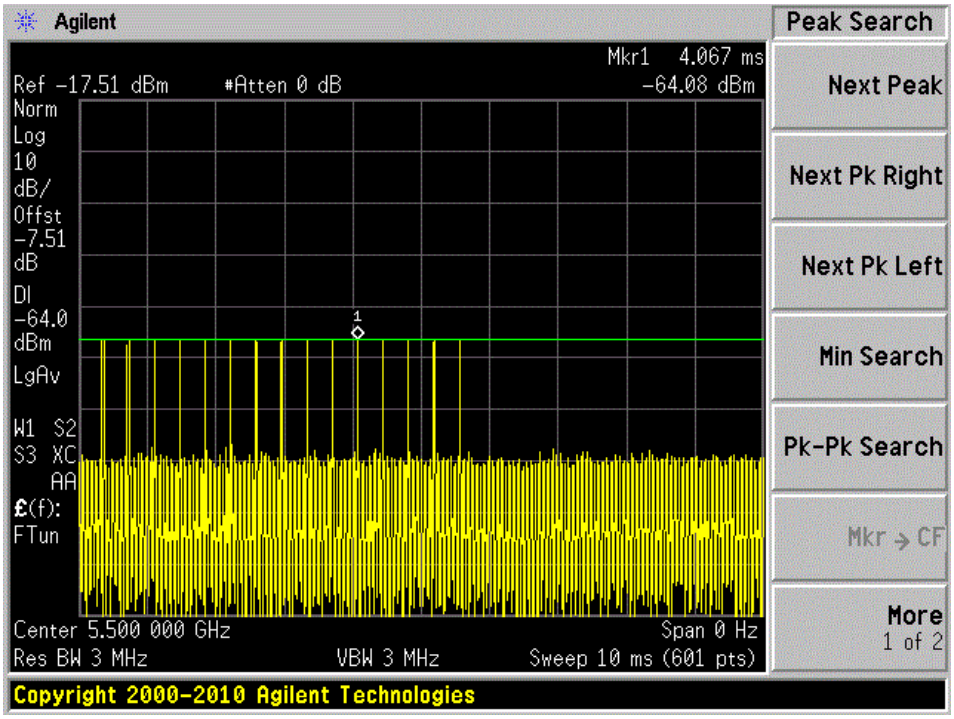
5500 MHz Type 1B Calibration



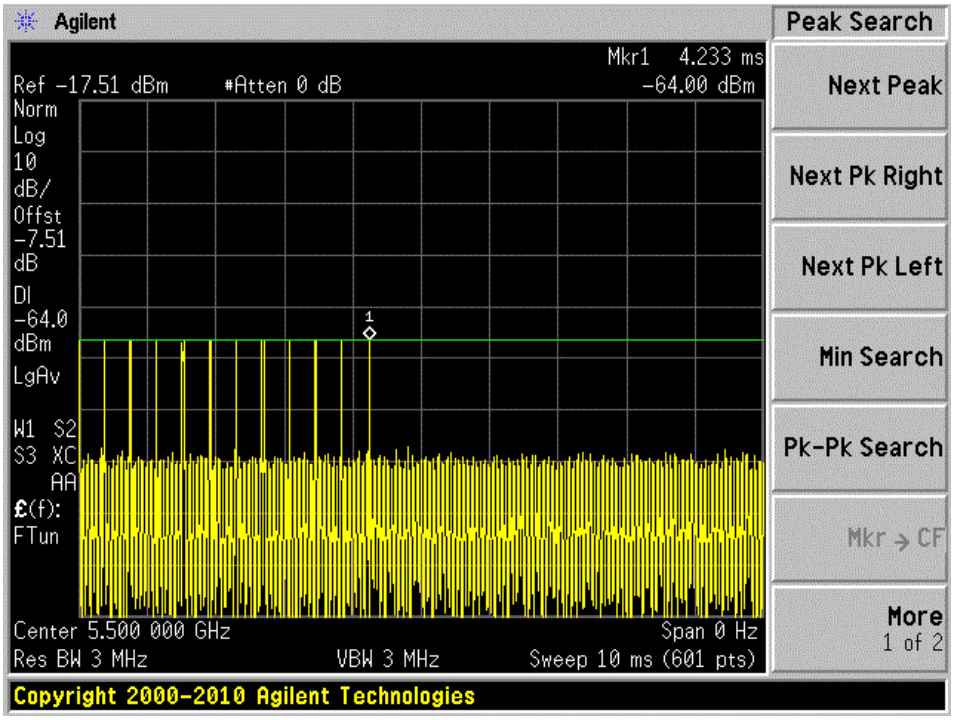
5500 MHz Type 2 Calibration



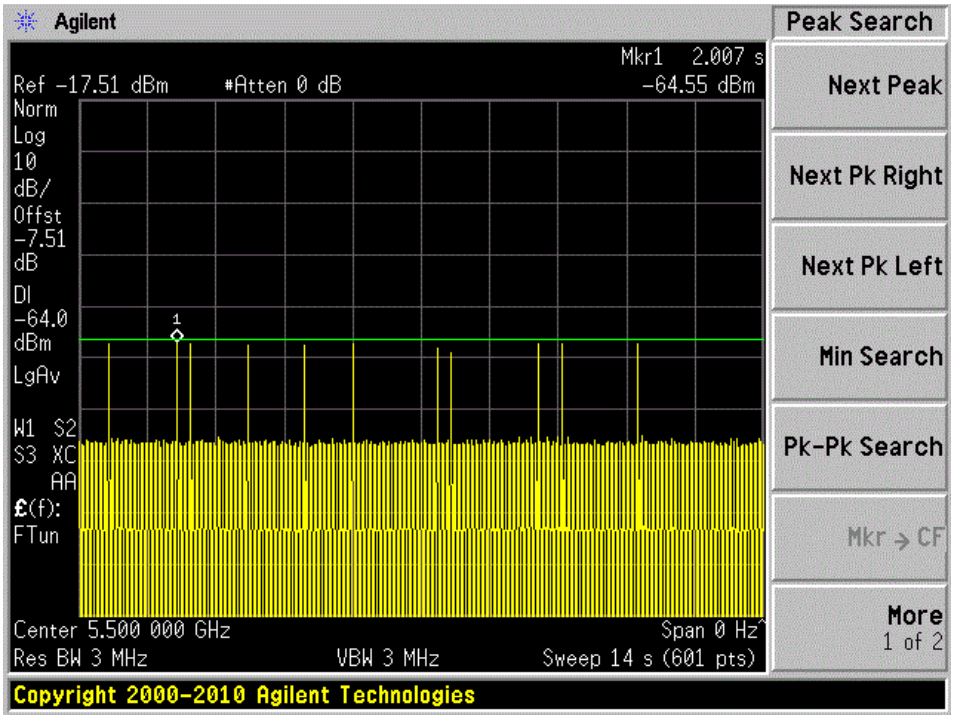
5500 MHz Type 3 Calibration



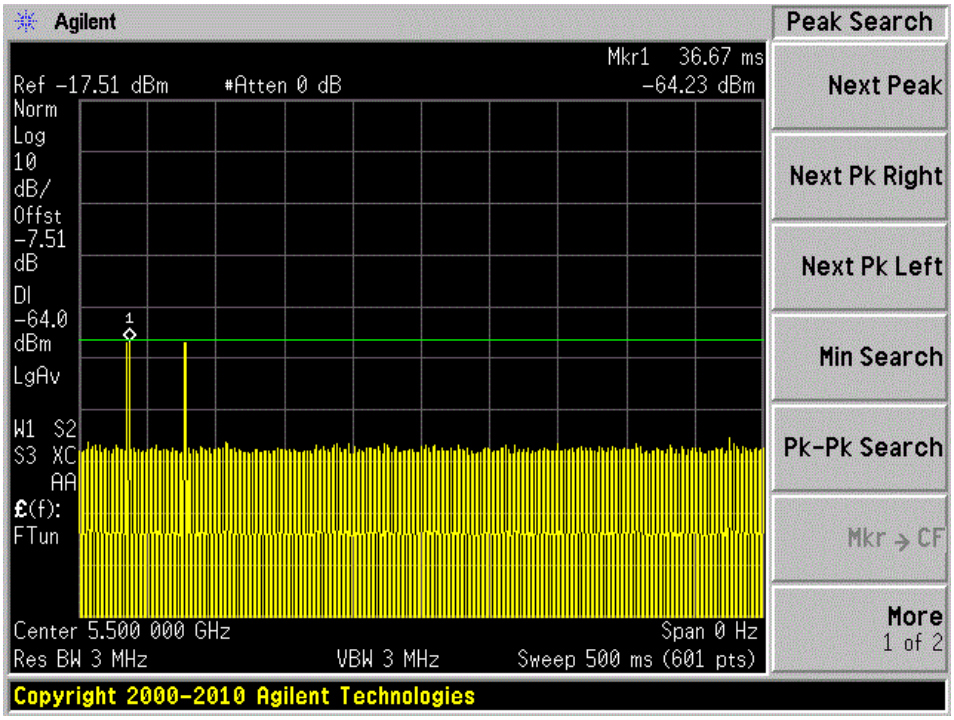
5500 MHz Type 4 Calibration



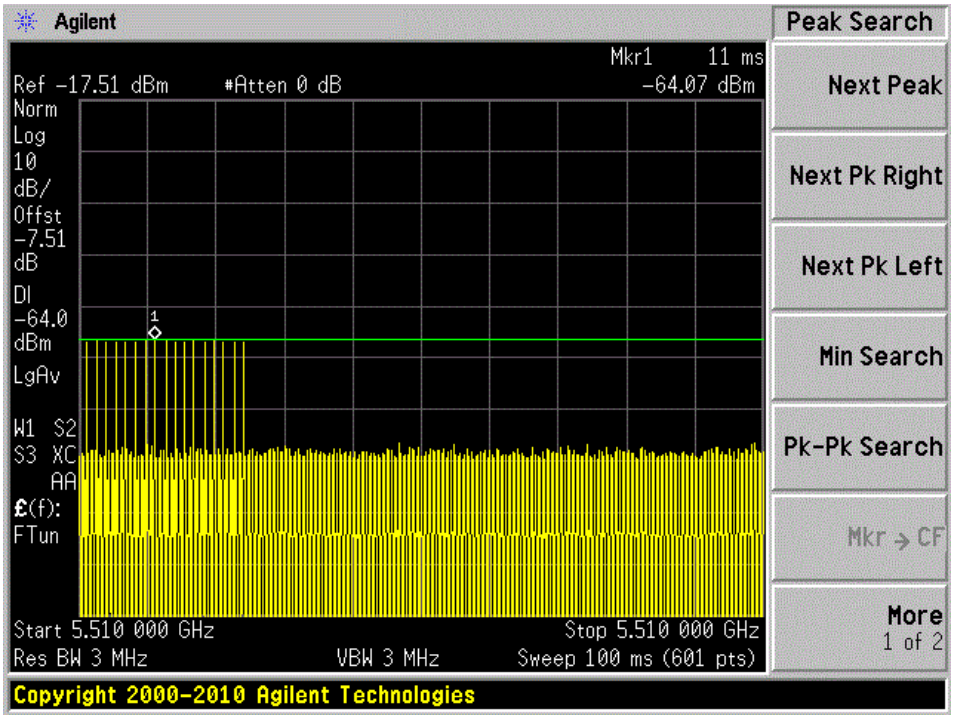
5500 MHz Type 5 Calibration



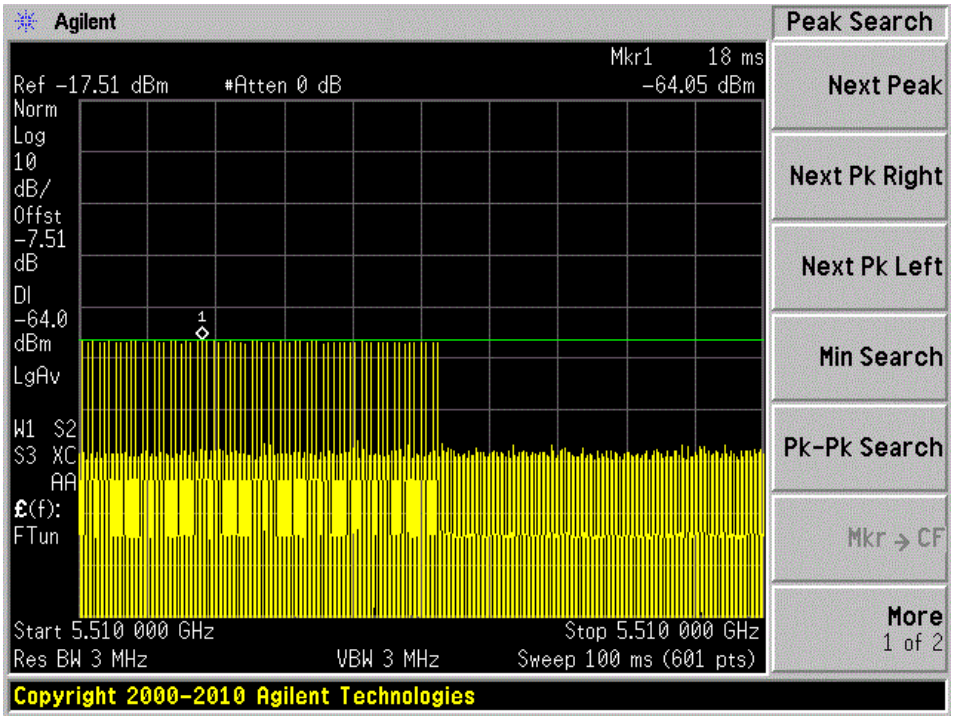
5500 MHz Type 6 Calibration



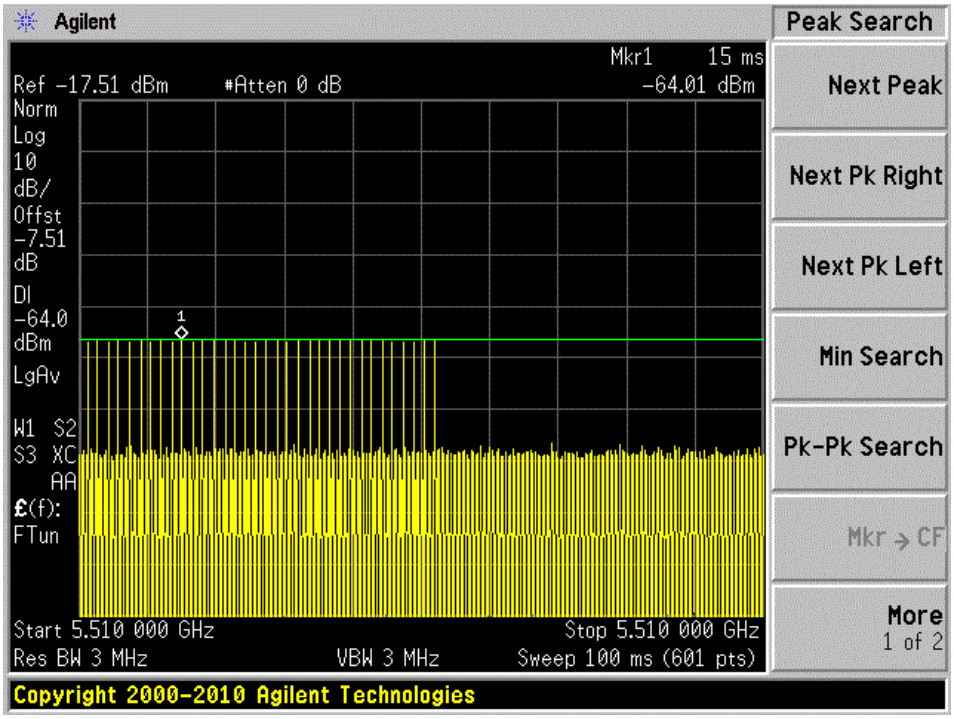
5510 MHz Type 0 Calibration



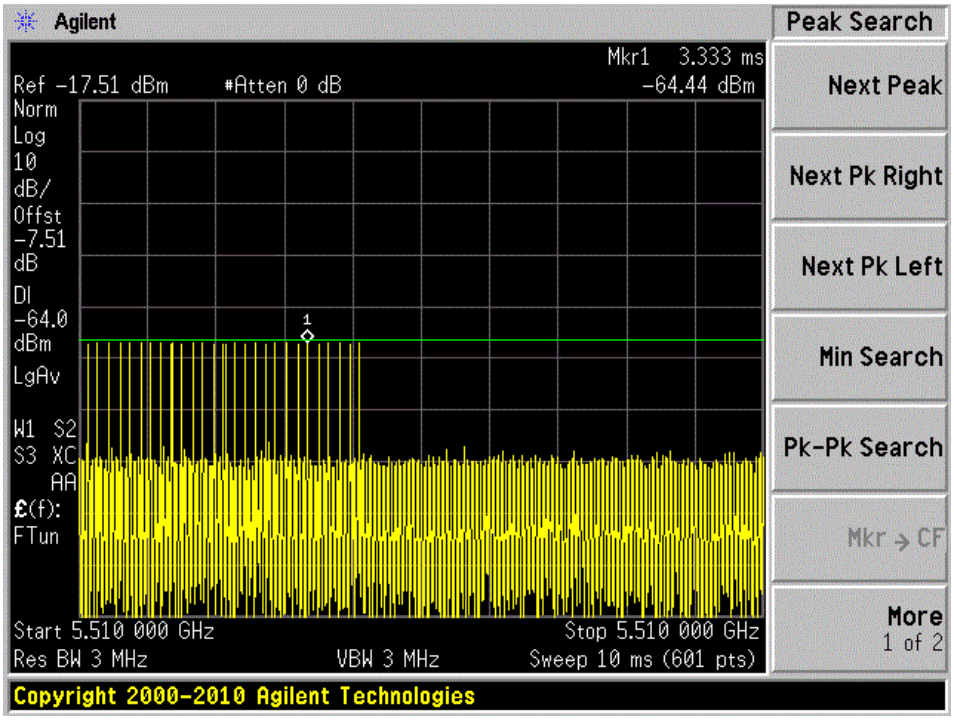
5510 MHz Type 1A Calibration



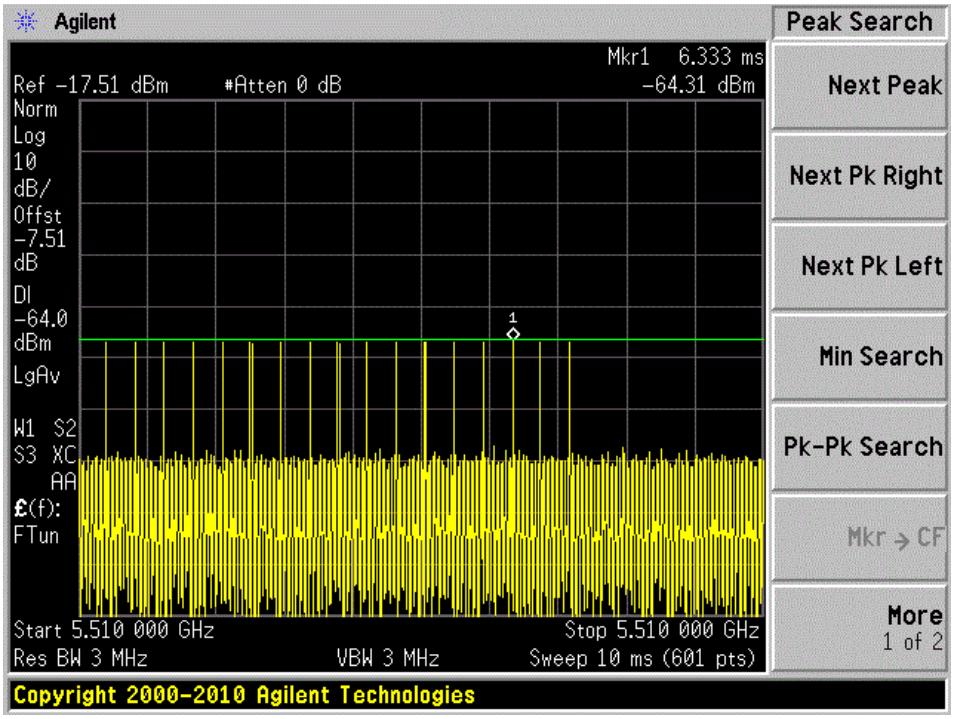
5510 MHz Type 1B Calibration



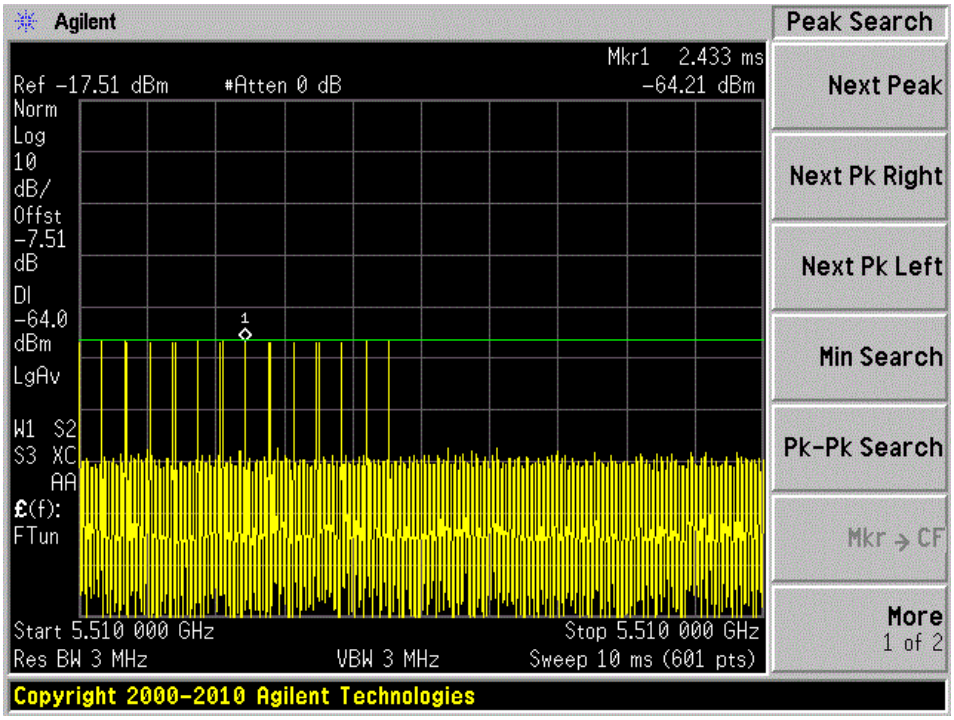
5510 MHz Type 2 Calibration



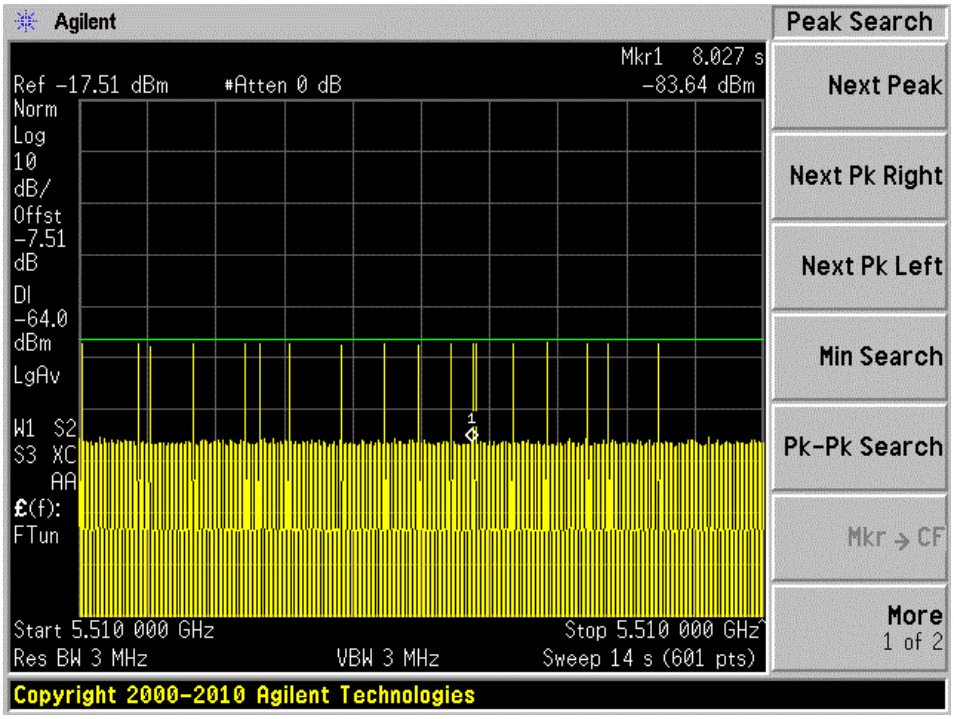
5510 MHz Type 3 Calibration



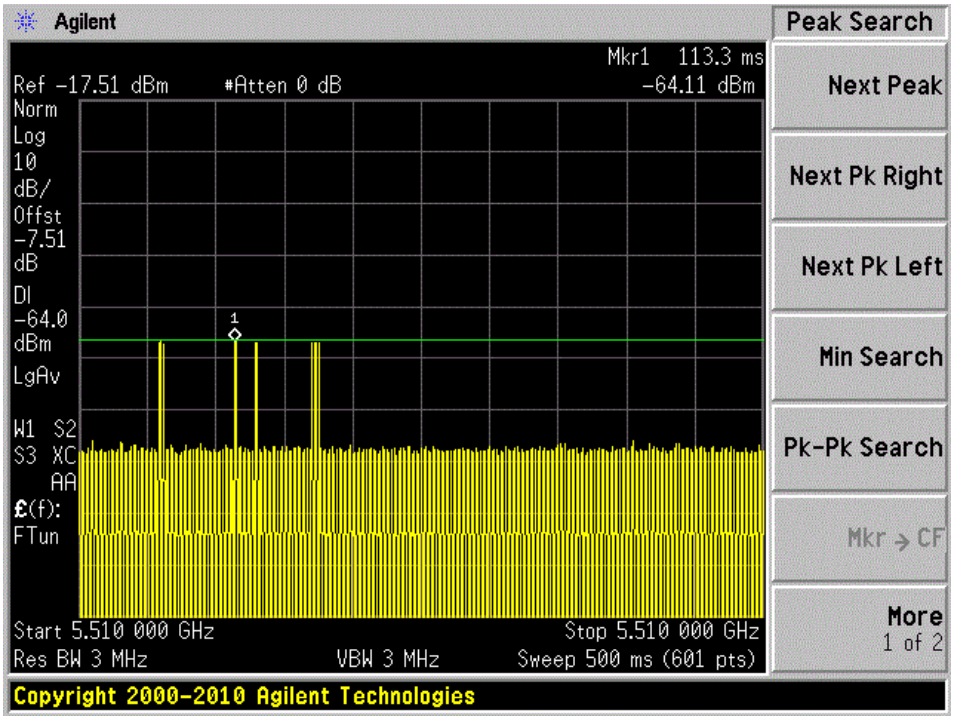
5510 MHz Type 4 Calibration



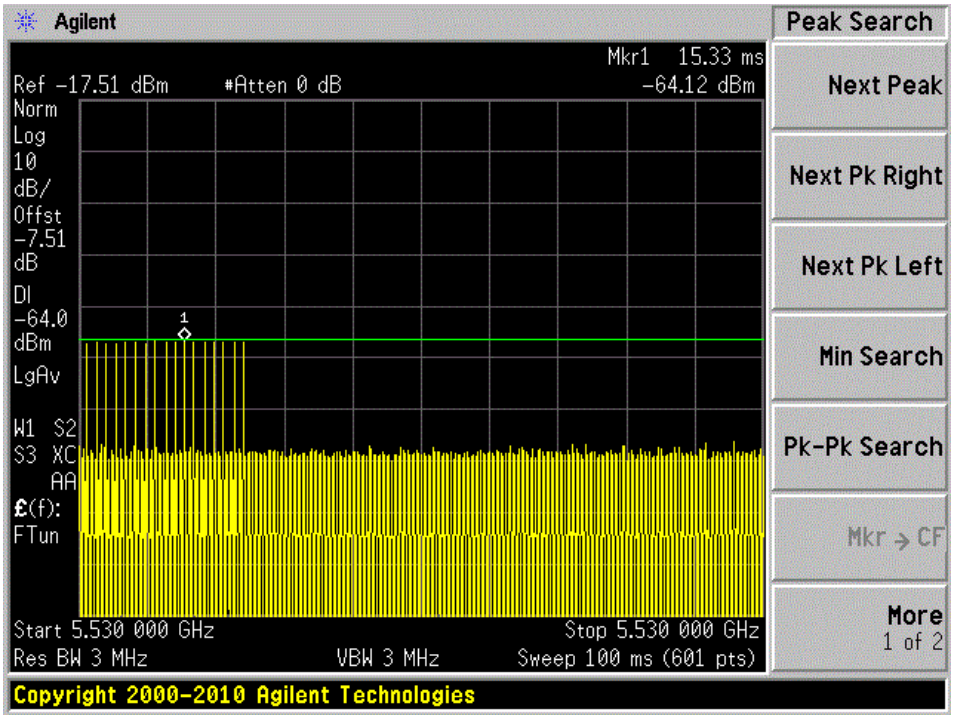
5510 MHz Type 5 Calibration



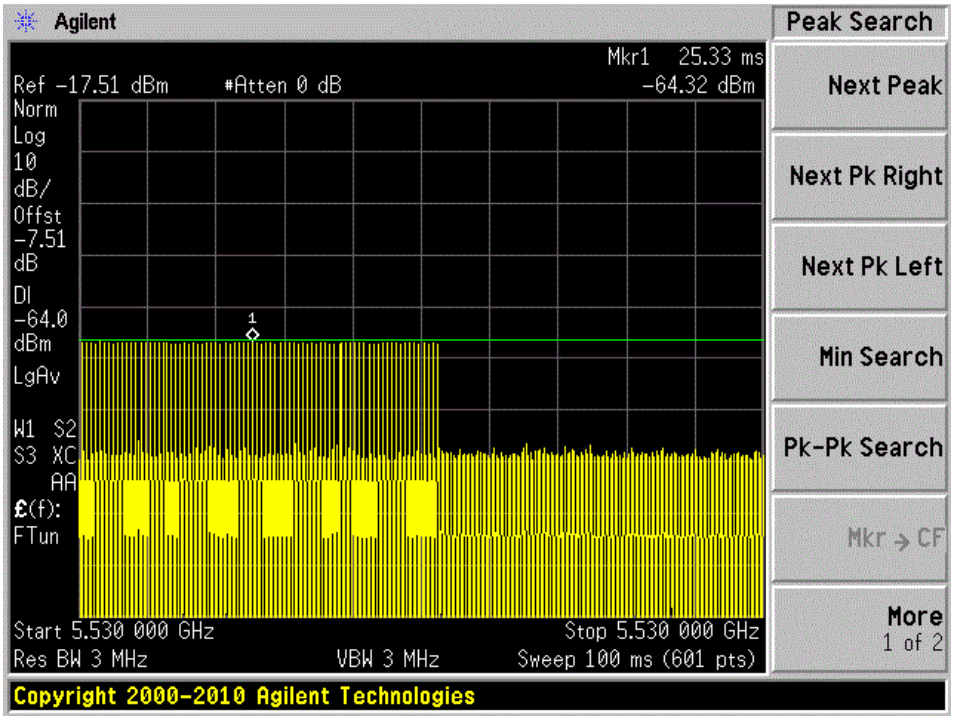
5510 MHz Type 6 Calibration



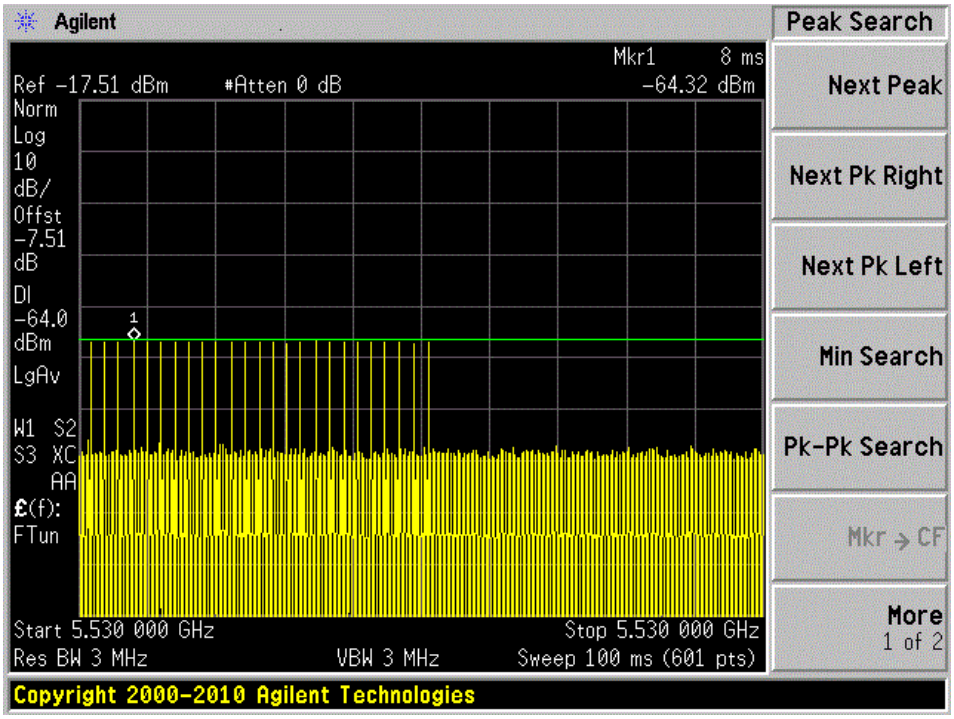
5530 MHz Type 0 Calibration



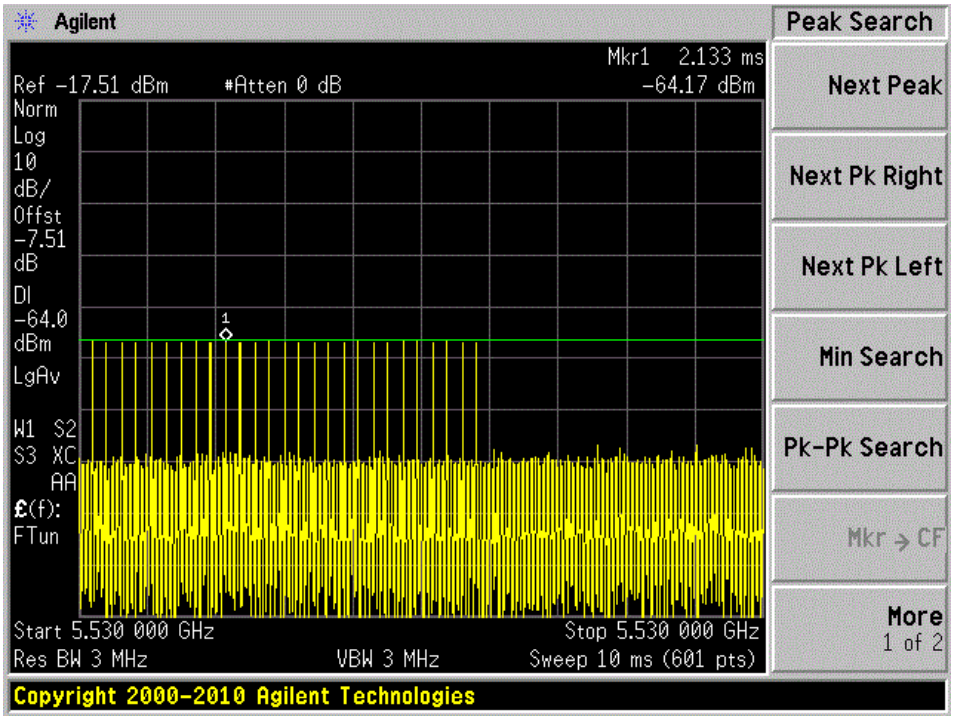
5530 MHz Type 1A Calibration



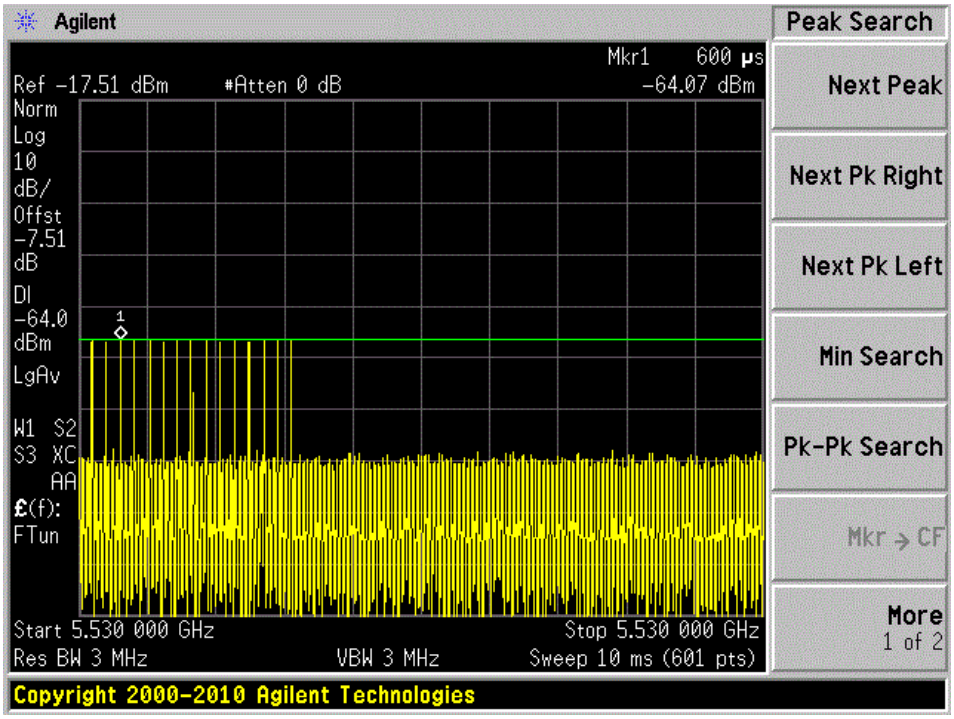
5530 MHz Type 1B Calibration



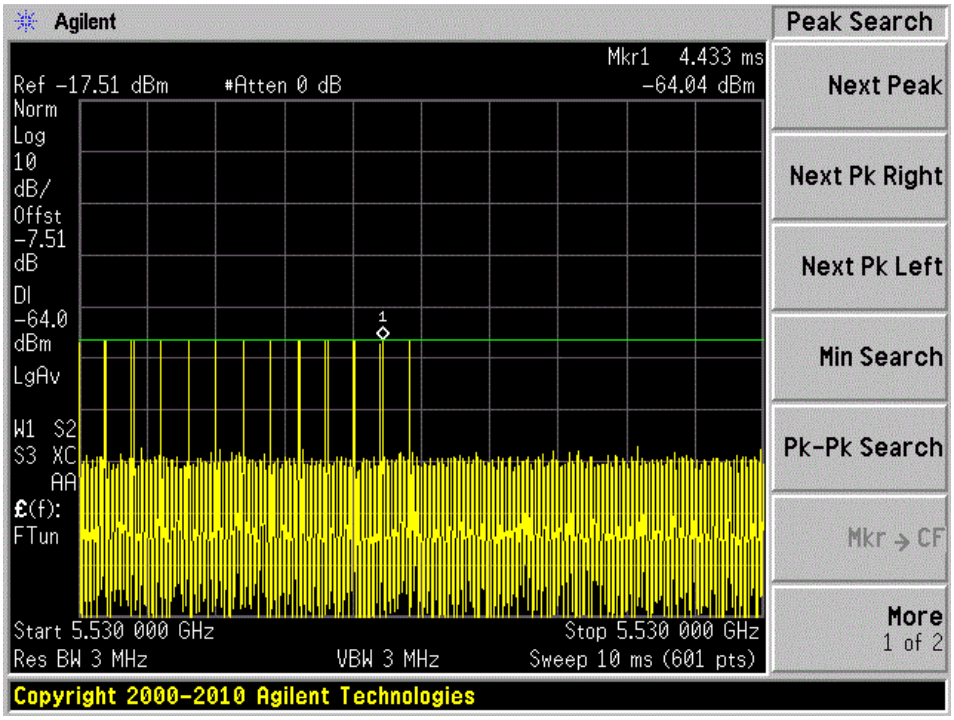
5530 MHz Type 2 Calibration



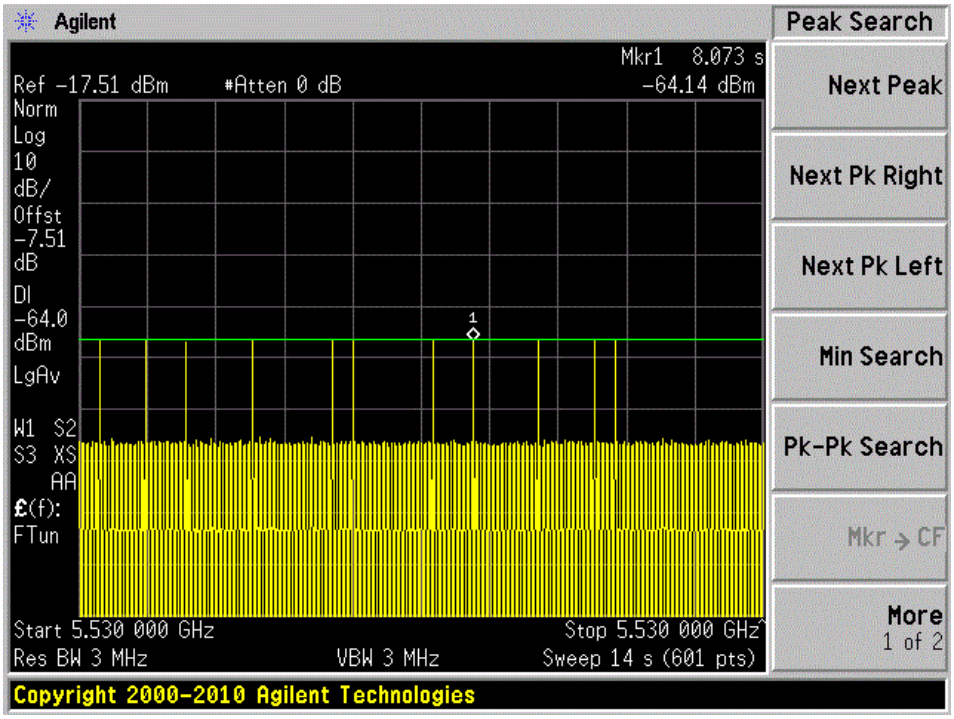
5530 MHz Type 3 Calibration



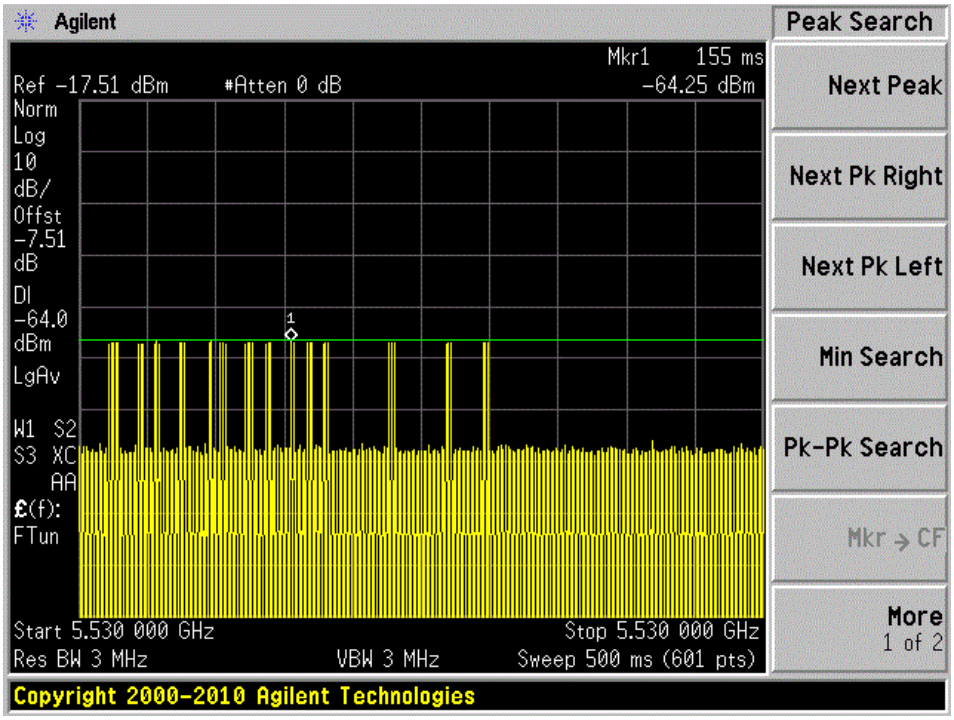
5530 MHz Type 4 Calibration



5530 MHz Type 5 Calibration



5530 MHz Type 6 Calibration



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.

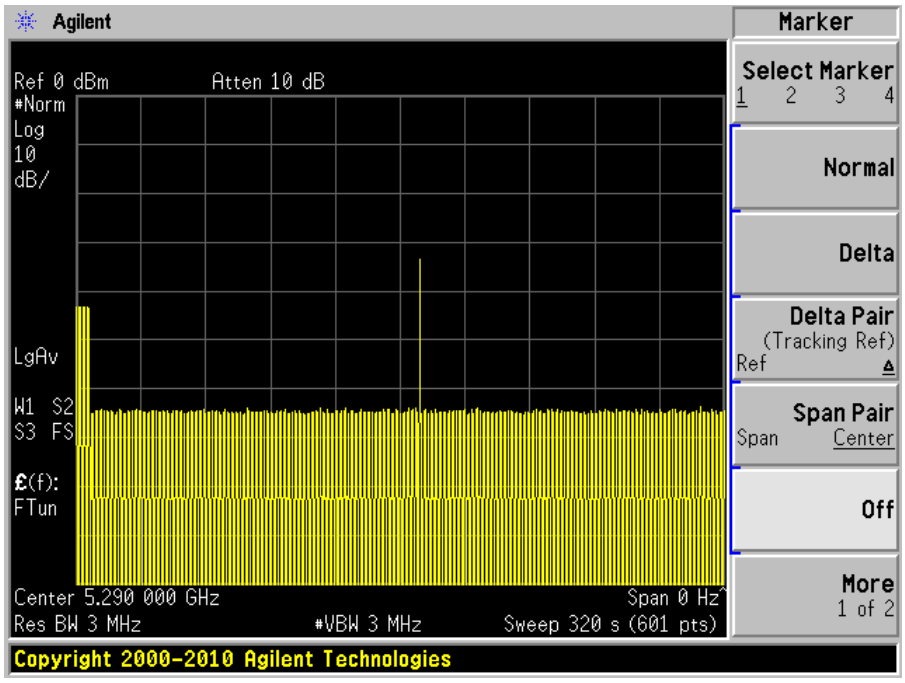
Results:

Timing of Radar Burst	Spectrum Analyzer Display	Result
No Radar Triggered	Transmission begin after power-up cycle +60 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 testing is performed with the Radar type 0.

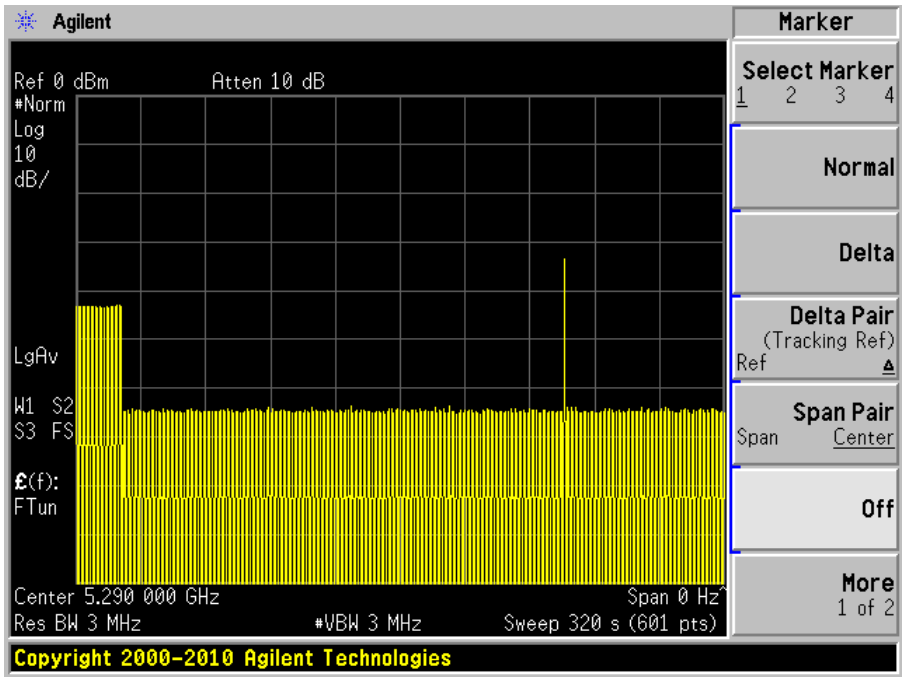
5290 MHz

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



No transmissions found after radar signal applied.

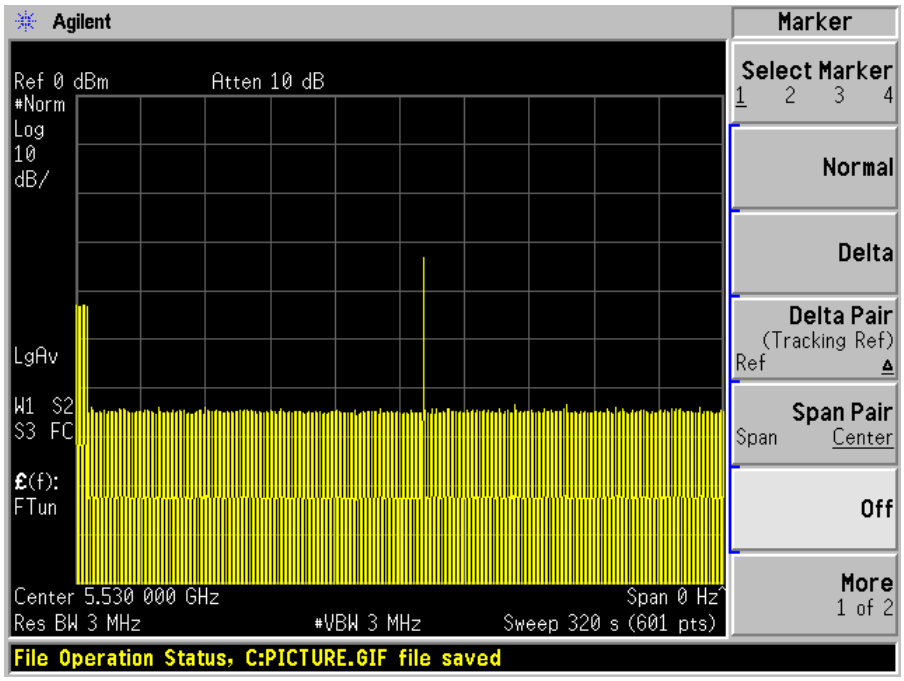
Plot of Radar signal applied at the end of 6 seconds of CAC



No transmissions found after radar signal applied.

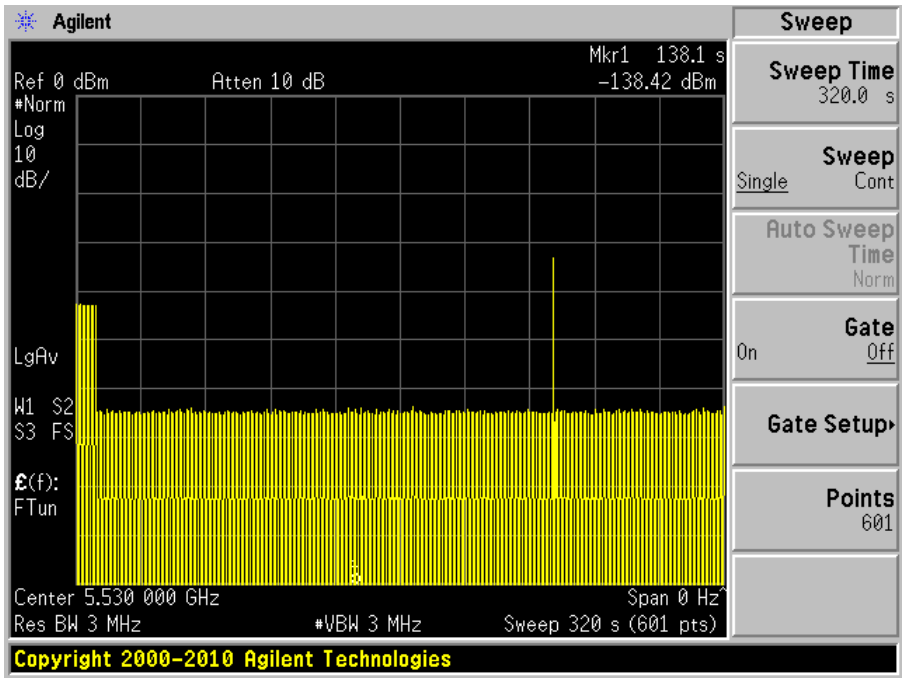
5530 MHz

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



No transmissions found after radar signal applied.

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



No transmissions found after radar signal applied.

7 Channel Move Time and Channel Closing Transmission Time

7.1 Test Procedure

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

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time = N * Dwell Time

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

7.2 Test Results

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

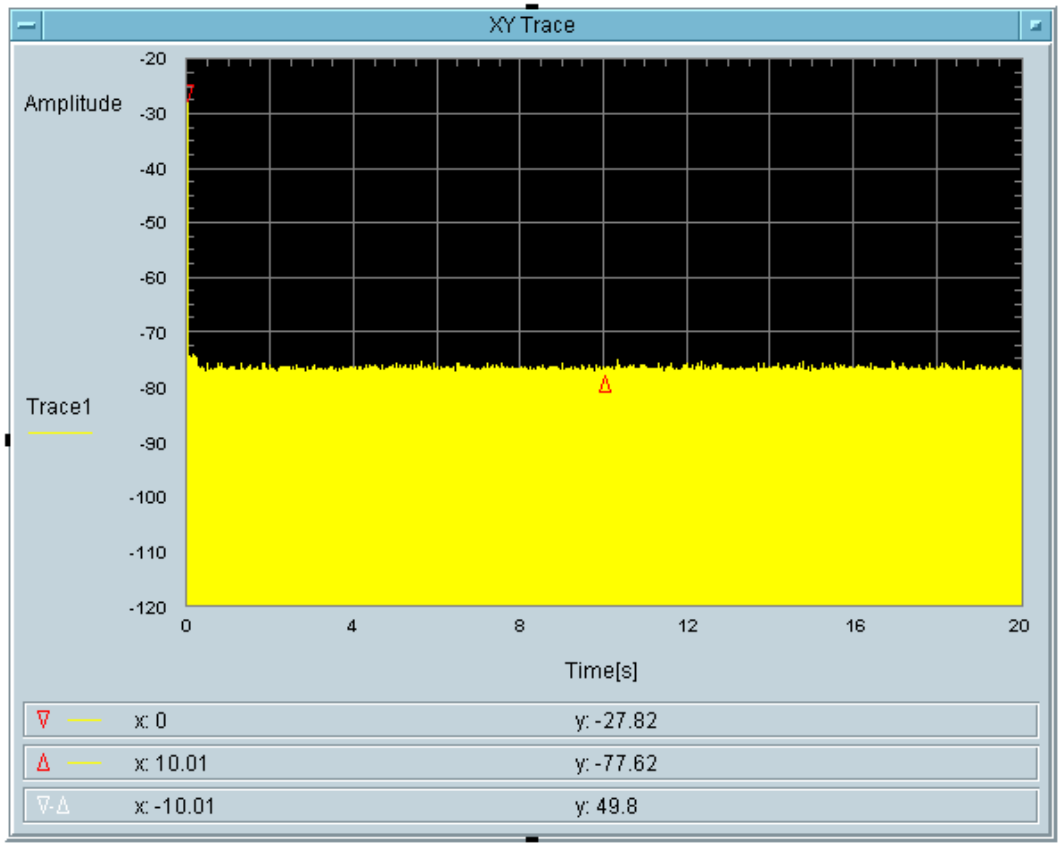
Please refer to the following tables and plots.

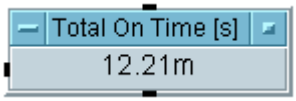
5290 MHz, Bandwidth 80 MHz,

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

Channel closing transmitting time (ms)	Limit (ms)	Result
12.21+0	200+60	Pass

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



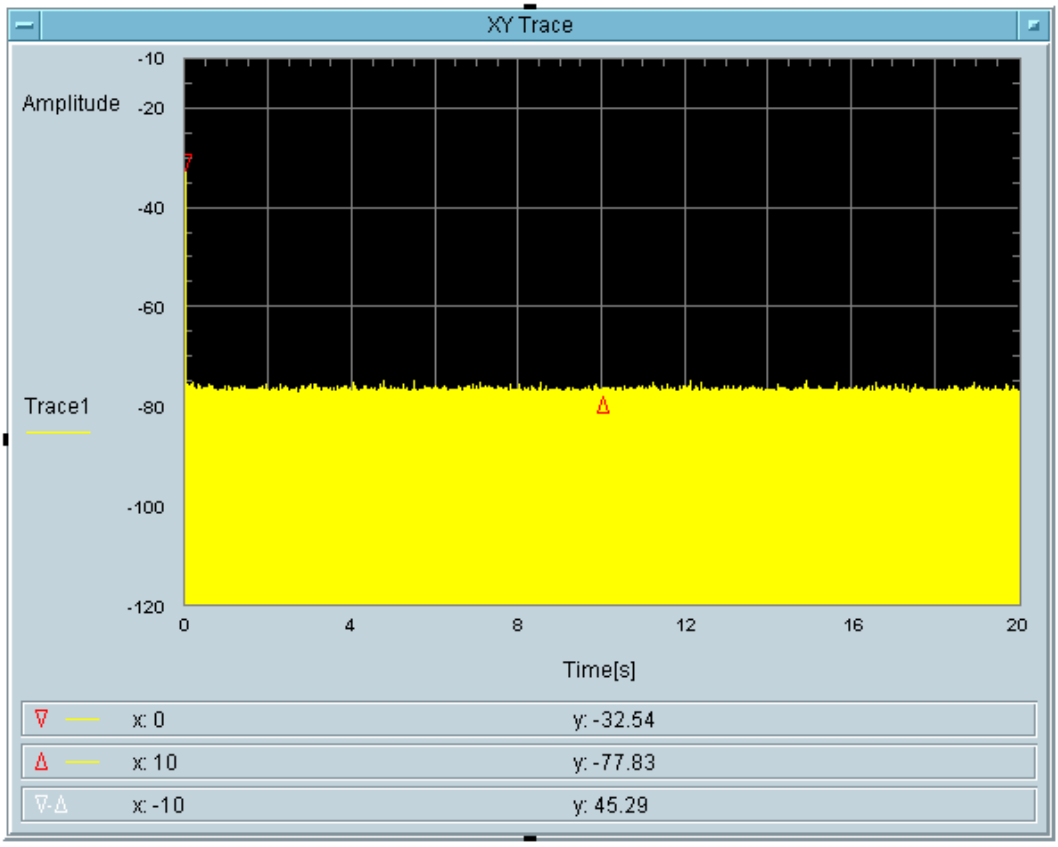


5530 MHz, Bandwidth 80 MHz,

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

Channel closing transmitting time (ms)	Limit (ms)	Result
12.21+0	200+60	Pass

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



8 Non-Occupancy Period

8.1 Test Procedure

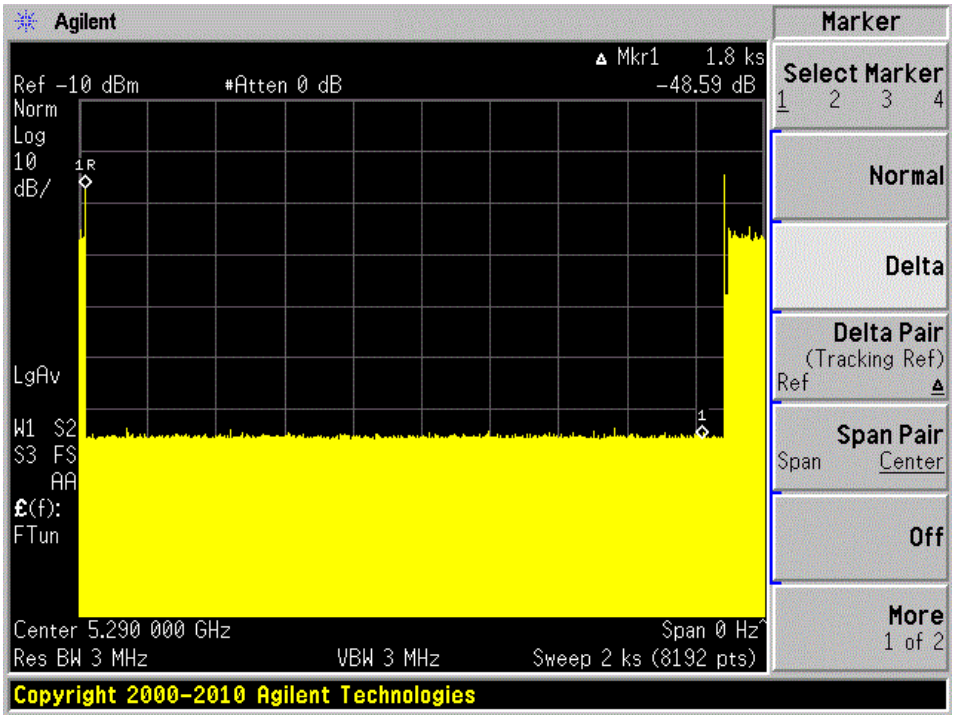
Measure the EUT for more than 30 minutes following the channel close/move time to very that the EUT does not resume any transmissions on this channel. Provide one plot to demonstrate no transmission on the channel for the non-occupancy period (30 minutes observation time)

8.2 Test Results

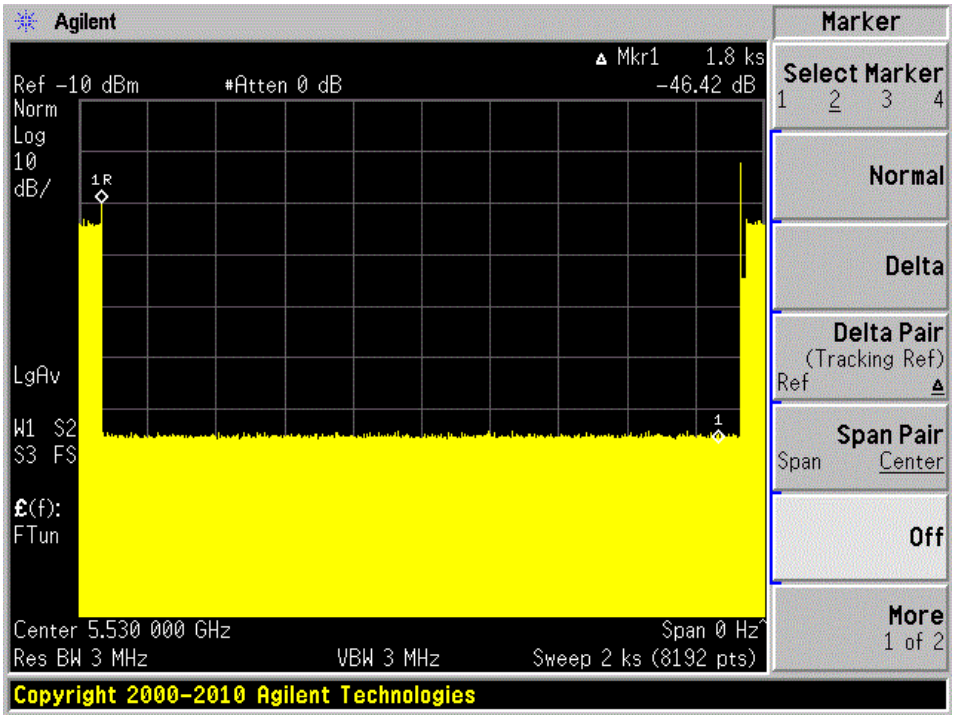
Frequency (MHz)	Bandwidth (MHz)	Spectrum Analyzer Display
5290	80	No transmission within 30 minutes
5530	80	No transmission within 30 minutes

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
5260	5250	5270	20	100%	Compliance
5270	5250	5290	40	100%	Compliance
5290	5250	5330	80	100%	Compliance
5500	5490	5510	20	100%	Compliance
5510	5490	5530	40	100%	Compliance
5530	5490	5570	80	100%	Compliance

Please refer to the following tables.

Results of Detection Bandwidth:

EUT Frequency = 5260 MHz											
DFS Detection Trials (1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5249	0	0	0	0	0	0	0	0	0	0	0 %
5250(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5255	1	1	1	1	1	1	1	1	1	1	100 %
5260(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5265	1	1	1	1	1	1	1	1	1	1	100 %
5270(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5271	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = $F_H - F_L$=5270-5250=20 MHz											
EUT 99% OBW = 17.8 MHz; 17.8 x 100% = 17.8 MHz **Result:** Pass											

EUT Frequency = 5500 MHz											
DFS Detection Trials (1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5489	0	0	0	0	0	0	0	0	0	0	0 %
5490(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5495	1	1	1	1	1	1	1	1	1	1	100 %
5500(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5505	1	1	1	1	1	1	1	1	1	1	100 %
5510 (F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5511	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = $F_H - F_L$=5510-5490=20 MHz											
EUT 99% OBW = 17.8 MHz; 17.8 x 100% = 17.8 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

5260 MHz, 20 MHz Bandwidth

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

Please refer to the following statistical tables:

5260 MHz, 20 MHz Bandwidth

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

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5260	68	1	778	1
2	5260	83	1	638	1
3	5260	67	1	798	1
4	5260	89	1	598	1
5	5260	59	1	898	1
6	5250	92	1	578	1
7	5250	58	1	918	1
8	5250	70	1	758	1
9	5250	76	1	698	1
10	5250	95	1	558	1
11	5270	102	1	518	1
12	5270	57	1	938	1
13	5270	65	1	818	1
14	5270	86	1	618	1
15	5270	61	1	878	1
16	5260	63	1	849	1
17	5260	25	1	2184	1
18	5260	43	1	1252	1
19	5260	18	1	3035	1
20	5260	25	1	2197	1
21	5250	22	1	2465	1
22	5250	45	1	1197	1
23	5250	84	1	634	1
24	5250	18	1	2967	1
25	5250	19	1	2849	1
26	5270	19	1	2867	1
27	5270	50	1	1074	1
28	5270	73	1	727	1
29	5270	21	1	2594	1
30	5270	20	1	2731	1
Detection Percentage: 100 % (>60%)					

Table-2 Radar Type 2 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5260	25	1.7	197	1
2	5260	25	1.5	212	1
3	5260	29	4.4	165	1
4	5260	27	2.1	161	1
5	5260	24	1.1	169	1
6	5260	23	3.6	224	1
7	5260	27	2.8	229	0
8	5260	29	1.5	180	0
9	5260	28	4.8	204	0
10	5260	23	2.6	172	1
11	5250	26	4.7	210	1
12	5250	29	2.4	194	1
13	5250	23	2.3	188	1
14	5250	26	2.3	226	1
15	5250	24	2.8	217	1
16	5250	27	4.2	219	1
17	5250	28	1.7	204	1
18	5250	28	2.5	186	1
19	5250	29	4.1	170	1
20	5250	28	3.7	219	0
21	5270	23	3.1	218	1
22	5270	26	3.3	184	1
23	5270	23	3	155	1
24	5270	26	4.5	217	1
25	5270	24	4.2	174	1
26	5270	24	1.7	173	0
27	5270	26	3	153	1
28	5270	26	1.4	155	1
29	5270	27	4.3	174	1
30	5270	28	4.9	170	1
Detection Percentage: 83.33 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5260	17	6.3	374	1
2	5260	17	9.4	440	1
3	5260	18	9.3	265	1
4	5260	18	7.9	439	1
5	5260	18	8.3	202	1
6	5260	18	7.3	201	1
7	5260	17	9.9	355	0
8	5260	18	9.5	227	1
9	5260	18	6.1	235	1
10	5260	17	6.2	232	1
11	5250	16	6.3	499	1
12	5250	16	8.1	214	1
13	5250	17	6	383	1
14	5250	16	8.7	216	1
15	5250	16	8.7	325	1
16	5250	18	7.8	348	1
17	5250	16	9.1	219	1
18	5250	17	9.3	363	1
19	5250	17	9.4	495	1
20	5250	17	8.5	400	1
21	5270	17	6	476	1
22	5270	17	6.8	310	1
23	5270	17	9.1	351	1
24	5270	16	8	364	1
25	5270	18	7.4	429	1
26	5270	16	8.1	322	1
27	5270	16	7.9	466	1
28	5270	16	9.8	285	1
29	5270	18	9.9	356	1
30	5270	16	8.8	293	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	5260	15	18.1	411	1
2	5260	16	16.1	313	1
3	5260	15	18.2	388	1
4	5260	15	11.1	498	1
5	5260	13	17.2	407	1
6	5260	13	15.5	434	1
7	5260	12	11.8	432	1
8	5260	12	16.3	429	1
9	5260	14	12	307	0
10	5260	12	13.9	452	1
11	5250	14	19.7	332	1
12	5250	14	14	205	0
13	5250	16	13.4	306	1
14	5250	15	15	249	0
15	5250	13	16.7	491	1
16	5250	14	12.7	347	0
17	5250	12	15.4	209	1
18	5250	16	11.6	413	1
19	5250	12	16.5	240	0
20	5250	15	18.4	214	1
21	5270	13	19.7	270	1
22	5270	13	17.2	327	1
23	5270	15	11.4	309	1
24	5270	12	14	438	1
25	5270	13	19.3	309	1
26	5270	13	11.4	220	1
27	5270	14	14.8	457	1
28	5270	12	17.2	241	1
29	5270	16	18.6	326	0
30	5270	13	18.1	397	1
Detection Percentage: 80% (>60%)					

Table-5 Radar Type 5 Statistical Performance

Trial #	Fc (MHz)	Detection (1:yes; 0:no)
1	5260	1
2	5260	1
3	5260	1
4	5260	1
5	5260	1
6	5260	1
7	5260	1
8	5260	1
9	5260	1
10	5260	1
11	5257.1	1
12	5258.8	1
13	5254.3	1
14	5255.9	1
15	5253.9	1
16	5255.9	1
17	5255.1	1
18	5253.1	1
19	5255.9	1
20	5256.8	1
21	5266.9	1
22	5263.7	1
23	5261.7	1
24	5266.5	1
25	5264.9	1
26	5262.1	1
27	5262.5	1
28	5264.5	1
29	5265.2	1
30	5263.2	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	10	51.2	1813	1468	1.158055	
1	2	10	61.1	1812		1.618838	
2	2	10	98.3	1399		3.671719	
3	2	10	68.8	1866		4.315062	
4	3	10	62.3	1474	1659	5.428536	1
5	2	10	66.5	1892		7.142034	
6	2	10	89.2	1211		8.492033	
7	2	10	88.8	1014		10.586683	
8	3	10	80.1	1515	1506	10.771998	

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	8	99.1	1698		0.701795	
1	3	8	96.4	1438	1875	1.072866	
2	2	8	65.6	1679		1.667888	
3	1	8	72.1			2.978352	
4	2	8	58.8	1698		3.49879	
5	2	8	94.4	1044		4.220299	
6	3	8	76.2	1154	1201	4.947472	
7	3	8	78.2	1053	1670	5.989675	
8	2	8	91.4	1330		6.479085	1
9	2	8	56	1094		7.147158	
10	1	8	78.1			7.933722	
11	3	8	97.2	1444	1595	8.958667	
12	1	8	96.7			9.634732	
13	1	8	54.4			9.882934	
14	1	8	51.7			11.102025	
15	1	8	57.7			11.680815	

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	13	80.3	1818		0.379777	
1	1	13	87.4			1.315579	
2	2	13	96.7	1003		2.239439	
3	1	13	98.1			3.172965	
4	2	13	80.9	1684		3.349011	
5	2	13	59.7	1496		4.180529	
6	2	13	62.9	1577		5.317857	
7	3	13	67.4	1057	1677	6.142448	1
8	3	13	68.9	1898	1461	7.014951	
9	3	13	85	1858	1329	7.79806	
10	3	13	58.6	1631	1095	8.681818	
11	1	13	73.1			9.58034	
12	1	13	98.4			9.672017	
13	2	13	85.3	1729		10.452883	
14	3	13	86.4	1747	1533	11.715739	

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	7	80.3	1826		0.432635	
1	1	7	61.2			0.739296	
2	3	7	86.8	1136	1239	1.496828	
3	1	7	71.8			1.976199	
4	2	7	87	1609		2.553017	
5	2	7	59.5	1066		3.207785	
6	2	7	55.2	1520		4.011772	
7	1	7	66.1			4.923496	
8	3	7	90	1736	1490	5.190172	
9	3	7	52.7	1742	1259	6.217239	1
10	2	7	85.1	1171		6.539225	
11	1	7	80.1			7.135821	
12	3	7	67.8	1028	1726	7.747361	
13	1	7	73.6			8.506243	
14	1	7	61.3			8.955101	
15	2	7	50	1602		9.678492	
16	2	7	65.1	1849		10.701097	
17	2	7	59.8	1089		11.191742	
18	3	7	72.2	1319	1836	11.774288	

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	14	62.6	1583		0.421812	1
1	2	14	68.6	1027		1.018702	
2	2	14	56.6	1144		1.720094	
3	3	14	70.9	1585	1057	2.524016	
4	2	14	58.7	1037		2.7688	
5	2	14	90.9	1950		3.478376	
6	2	14	91.6	1378		4.327303	
7	1	14	94.1			5.028731	
8	2	14	87.6	1089		5.918622	
9	1	14	87.1			6.220094	
10	2	14	99	1945		6.962788	
11	1	14	86.1			7.580036	
12	1	14	79.4			8.306995	
13	1	14	68			9.060853	
14	2	14	60.2	1749		9.552586	
15	2	14	86.6	1263		10.270298	
16	3	14	57.9	1437	1480	11.103084	
17	1	14	52.1			11.940488	

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	11	55.6	1876	1079	0.785089	1
1	2	11	59.7	1492		2.044587	
2	2	11	88.1	1275		2.417601	
3	2	11	97.5	1089		4.226947	
4	2	11	56.5	1030		5.689773	
5	3	11	80.3	1483	1128	7.026913	
6	2	11	98.6	1474		8.302604	
7	2	11	89.1	1166		9.464884	
8	2	11	54	1667		9.99252	
9	1	11	58.3			11.540949	

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	10	97.5			0.281418	1
1	1	10	93.7			1.537984	
2	3	10	67	1438	1853	2.829975	
3	2	10	62.9	1764		4.056186	
4	3	10	72.3	1401	1837	4.53989	
5	2	10	98.7	1132		6.035064	
6	2	10	72.2	1053		7.237601	
7	3	10	53.8	1736	1827	8.542797	
8	1	10	52.9			9.577483	
9	3	10	75.9	1951	1645	10.519184	
10	2	10	75.2	1034		11.071924	

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	7	51.4			1.351287	1
1	2	7	80.2	1057		2.907761	
2	2	7	79.7	1519		4.308403	
3	1	7	97.3			4.830238	
4	2	7	82.1	1907		6.844419	
5	3	7	66.6	1404	1162	7.942866	
6	2	7	81.1	1628		9.456127	
7	1	7	77.2			10.876351	

Bin5 Statistics 9

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	9	69.9			0.523861	1
1	2	9	88.8	1704		2.419148	
2	1	9	64			4.278726	
3	2	9	53.6	1024		4.612759	
4	2	9	79.1	1907		6.709141	
5	2	9	99.4	1430		7.797561	
6	1	9	83.7			9.531607	
7	2	9	58.7	1855		11.95947	

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	12	85.6	1047		0.56669	1
1	2	12	84.2	1128		1.114476	
2	2	12	68.7	1133		1.804328	
3	1	12	67.9			2.284014	
4	1	12	60.3			3.152612	
5	1	12	74.5			3.33952	
6	2	12	62.9	1349		4.453911	
7	2	12	79.1	1092		5.284411	
8	2	12	75.8	1304		5.502488	
9	3	12	58.8	1273	1481	6.258191	
10	2	12	69.9	1400		6.693781	
11	3	12	72.2	1935	1512	7.594516	
12	2	12	50.7	1771		8.309355	
13	2	12	92.6	1560		9.137984	
14	1	12	59.1			9.936199	
15	2	12	63.4	1744		10.646302	
16	3	12	58.4	1582	1796	11.020475	
17	3	12	81.3	1574	1849	11.371539	

Bin5 Statistics 11

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	15	51.6	1227	1420	0.48083	
1	2	15	97.6	1202		1.426305	
2	3	15	58.9	1161	1140	1.962743	
3	2	15	70.6	1434		3.142026	
4	3	15	89.7	1804	1926	3.684468	
5	2	15	54.2	1276		4.377298	
6	2	15	85.6	1697		4.876887	
7	2	15	81.5	1546		5.653217	1
8	2	15	72.2	1159		6.506459	
9	2	15	97.6	1744		7.253614	
10	3	15	52.5	1671	1405	8.550424	
11	3	15	86.2	1605	1807	9.032014	
12	2	15	58.6	1471		10.171475	
13	1	15	97.4			10.819923	
14	3	15	53.8	1048	1158	11.62804	

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	19	60.8	1560		0.961646	
1	3	19	97.2	1144	1409	1.595583	
2	1	19	90			2.709906	
3	2	19	91.1	1106		3.766088	
4	3	19	69.4	1520	1617	4.407448	
5	2	19	56.5	1383		5.979387	
6	2	19	88.7	1287		6.923782	1
7	3	19	70	1891	1479	7.628435	
8	2	19	81.3	1020		8.367922	
9	1	19	93.7			9.393407	
10	3	19	59.9	1306	1579	10.485299	
11	3	19	83.7	1590	1598	11.445204	

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	62.2	1440		0.354639	
1	3	8	69	1712	1094	0.848212	
2	3	8	52.3	1691	1093	1.694352	
3	2	8	78.2	1394		2.704641	
4	3	8	80.5	1809	1202	3.276613	
5	3	8	93.2	1009	1248	4.762129	
6	2	8	69.5	1063		4.831521	
7	2	8	97.9	1613		5.791419	1
8	1	8	71.7			7.096473	
9	2	8	87	1877		7.201896	
10	2	8	72.4	1316		8.389532	
11	1	8	82.1			9.430339	
12	2	8	89	1193		10.230794	
13	1	8	84.8			11.175461	
14	1	8	93.6			11.853395	

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	12	87.8	1543		0.107564	
1	2	12	67.1	1701		1.057257	
2	2	12	92.8	1163		2.537095	
3	3	12	79.1	1508	1944	3.828285	
4	1	12	52.5			4.211166	
5	3	12	70.5	1957	1028	5.383696	1
6	3	12	56.6	1544	1792	6.952131	
7	1	12	84.6			7.861402	
8	3	12	99.8	1137	1446	8.381054	
9	3	12	57.3	1071	1645	9.894293	
10	3	12	77.8	1750	1584	10.605634	
11	2	12	70.7	1701		11.185811	

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	7	91.5			0.548554	
1	2	7	63.8	1363		0.790754	
2	3	7	89.3	1024	1766	2.060567	
3	1	7	88.4			2.157769	
4	2	7	58	1064		3.326295	
5	2	7	72.4	1450		3.690391	
6	3	7	97.9	1908	1582	4.552404	
7	3	7	55.4	1314	1769	5.280843	
8	2	7	89.6	1694		5.820317	1
9	2	7	83.6	1373		6.82382	
10	2	7	70.3	1768		7.400155	
11	1	7	97.3			8.246558	
12	2	7	73.2	1654		8.994145	
13	2	7	79.2	1114		9.646096	
14	3	7	67.2	1356	1018	10.410386	
15	2	7	80.8	1780		11.087225	
16	3	7	98.5	1659	1096	11.368354	

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	12	95.3	1110	1869	0.543247	
1	3	12	68.1	1700	1227	1.346061	
2	1	12	76.3			2.059869	
3	1	12	90.8			2.918935	
4	3	12	79.8	1645	1311	3.234926	
5	2	12	68.5	1676		4.002883	
6	3	12	81.9	1878	1676	5.092816	
7	2	12	96.2	1419		6.302713	1
8	3	12	58.5	1994	1462	6.806114	
9	1	12	82.4			7.335853	
10	2	12	78.7	1505		8.419577	
11	1	12	90.9			9.537108	
12	2	12	53.1	1225		10.061881	
13	2	12	59.7	1552		10.714994	
14	3	12	91.9	1148	1943	11.963072	

Bin5 Statistics 17

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	10	51.8	1609		0.071515	
1	3	10	72.4	1316	1337	0.856644	
2	2	10	90.3	1118		1.6213	
3	2	10	51.6	1126		2.313197	
4	2	10	96.4	1103		2.944699	
5	2	10	80.6	1736		3.424778	
6	3	10	87.3	1910	1283	4.233901	
7	3	10	52.2	1527	1566	5.03761	
8	2	10	74.9	1795		5.107917	
9	1	10	93.1			6.164242	1
10	2	10	79.9	1218		6.862745	
11	2	10	56.5	1444		7.46874	
12	2	10	94	1684		7.669079	
13	2	10	96.7	1632		8.507385	
14	2	10	51.5	1257		9.040507	
15	2	10	74.6	1326		9.787909	
16	2	10	64.1	1156		10.590522	
17	2	10	78.9	1591		11.333682	
18	1	10	82.6			11.636899	

Bin5 Statistics 18

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	5	85.5	1604		0.910234	
1	2	5	85.6	1798		1.786144	
2	2	5	88.5	1697		1.909894	
3	1	5	91.1			3.636403	
4	1	5	50.3			4.292027	
5	2	5	51.4	1183		5.340078	
6	1	5	74.2			5.660125	1
7	1	5	80.7			7.000428	
8	3	5	86.3	1855	1244	7.854289	
9	1	5	64.8			8.536081	
10	2	5	64	1836		9.759848	
11	3	5	72	1411	1901	10.936617	
12	2	5	74.1	1364		11.379536	

Bin5 Statistics 19

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	12	58.3			0.162071	
1	2	12	66.1	1065		1.186364	
2	3	12	61.4	1204	1624	1.472136	
3	3	12	68.6	1715	1629	2.638373	
4	3	12	64.1	1493	1757	3.043929	
5	1	12	86.7			4.073148	
6	1	12	89.7			4.403427	
7	1	12	91.6			5.483885	
8	2	12	71	1571		6.251368	1
9	3	12	51.9	1808	1944	6.5828	
10	2	12	75.4	1444		7.331436	
11	3	12	90.4	1488	1279	8.070868	
12	1	12	53.7			9.072089	
13	2	12	74.5	1276		9.333822	
14	3	12	92.9	1441	1742	10.128306	
15	1	12	53.8			11.140229	
16	2	12	80.6	1530		11.678531	

Bin5 Statistics 20

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	14	66.5	1818		0.006367	
1	2	14	55.6	1669		1.264436	
2	2	14	51.1	1082		2.714661	
3	2	14	52.2	1418		3.448794	
4	2	14	58.6	1426		4.289801	
5	2	14	72	1406		5.811035	
6	2	14	97.4	1356		6.957767	1
7	3	14	87.2	1659	1625	7.430627	
8	1	14	67.3			8.504446	
9	1	14	97			9.146634	
10	3	14	78.1	1540	1842	10.98139	
11	2	14	86.1	1946		11.935441	

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	56.7	1972		0.517185	1
1	2	5	86.8	1272		1.14027	
2	2	5	66.6	1710		1.817899	
3	2	5	57.3	1876		2.831572	
4	2	5	64.1	1487		3.662587	
5	3	5	52.3	1510	1105	3.8141	
6	2	5	81.8	1762		4.532586	
7	2	5	58.7	1088		5.851234	
8	2	5	54	1010		6.340403	
9	3	5	59.6	1471	1860	6.758002	
10	2	5	82.2	1292		7.773841	
11	2	5	58.4	1080		8.975188	
12	3	5	76.1	1291	1701	9.222974	
13	2	5	54.4	1018		10.345656	
14	1	5	59.3			10.985867	
15	2	5	72	1744		11.803912	

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	13	62.1	1468		0.108958	1
1	2	13	64.6	1853		1.287794	
2	3	13	99.3	1271	1398	1.636475	
3	2	13	55.3	1288		2.7981	
4	1	13	57.5			3.091451	
5	2	13	86.3	1464		4.38646	
6	2	13	52	1225		5.185838	
7	3	13	63.6	1978	1240	5.560155	
8	2	13	58.7	1751		6.463602	
9	1	13	91.4			6.820078	
10	2	13	75.1	1769		7.650516	
11	1	13	54.9			8.488046	
12	1	13	65.4			9.697146	
13	2	13	54	1592		10.360728	
14	2	13	65	1303		11.199453	
15	3	13	96	1969	1850	11.689944	

Bin5 Statistics 23

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	18	56.7	1654	1038	0.370493	1
1	2	18	81.3	1473		0.900508	
2	1	18	84			1.551032	
3	3	18	76.2	1724	1791	2.601918	
4	3	18	52.3	1221	1970	2.94119	
5	2	18	98.5	1060		3.765221	
6	3	18	67.8	1511	1274	4.232857	
7	2	18	53.6	1331		4.748989	
8	2	18	96	1550		5.966683	
9	2	18	67.5	1943		6.563882	
10	1	18	68.1			6.926271	
11	2	18	67.9	1507		7.977991	
12	3	18	58.5	1194	1587	8.240265	
13	2	18	54.2	1374		9.00422	
14	3	18	73.2	1010	1419	9.594721	
15	3	18	94.7	1295	1047	10.658918	
16	1	18	83.9			11.109357	
17	3	18	94.5	1361	1760	11.647449	

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	6	93.6	1981		0.46626	1
1	3	6	59.5	1785	1092	0.846893	
2	3	6	94.3	1007	1544	1.469314	
3	1	6	76.2			2.566759	
4	3	6	74.8	1112	1143	3.074595	
5	2	6	98.9	1173		3.417124	
6	2	6	83.5	1248		4.650327	
7	2	6	81.5	1229		5.196841	
8	3	6	56.3	1515	1024	5.722544	
9	3	6	62.4	1054	1684	6.572463	
10	1	6	96.3			7.016828	
11	3	6	76.4	1461	1286	7.571611	
12	3	6	71.6	1032	1044	8.197375	
13	1	6	69.3			8.857897	
14	2	6	51	1642		9.915837	
15	1	6	62.8			10.023719	
16	2	6	74.6	1232		11.211984	
17	3	6	79.4	1382	1435	11.862328	

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	10	88.7			0.527501	1
1	1	10	78.3			1.964016	
2	3	10	84.8	1109	1503	3.804238	
3	2	10	89.3	1153		4.794144	
4	1	10	57			6.000115	
5	2	10	57.9	1119		7.272429	
6	3	10	83.9	1610	1983	8.408599	
7	1	10	73.2			9.903214	
8	1	10	73.5			11.12082	

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	17	63.9	1961	1095	0.463803	
1	2	17	56.2	1507		0.643017	
2	1	17	81.1			1.672854	
3	2	17	57.4	1538		2.403864	
4	2	17	62.6	1361		3.058347	
5	3	17	84.5	1379	1500	3.655346	
6	3	17	99.3	1131	1539	4.242604	
7	3	17	60	1885	1937	4.51144	
8	1	17	50.9			5.446024	
9	1	17	99.3			6.079653	1
10	2	17	70.8	1537		6.336416	
11	3	17	85.3	1042	1700	6.98865	
12	1	17	52.6			7.591425	
13	2	17	99.3	1883		8.338029	
14	3	17	52.6	1229	1023	9.316765	
15	2	17	86.6	1003		9.48471	
16	3	17	50.2	1903	1955	10.618045	
17	2	17	76.9	1831		11.358852	
18	1	17	66.1			11.580863	

Bin5 Statistics 27

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	16	87.6			0.887271	
1	2	16	86.9	1531		1.449525	
2	1	16	84.6			2.527955	
3	1	16	59.9			3.019189	
4	2	16	86.5	1614		4.464746	
5	3	16	67	1687	1426	5.012518	
6	2	16	55.2	1649		6.909895	1
7	2	16	70.4	1404		7.126779	
8	2	16	87.3	1955		8.508535	
9	3	16	68	1701	1226	9.037719	
10	2	16	59.2	1277		10.552196	
11	1	16	71.2			11.297178	

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	11	67.6	1834		0.143418	1
1	3	11	54.8	1951	1263	2.485539	
2	1	11	83.1			2.76522	
3	1	11	65.5			5.176225	
4	1	11	50.7			5.788796	
5	1	11	60.2			7.845488	
6	2	11	56.4	1717		8.83423	
7	1	11	78.9			10.021601	
8	2	11	58.4	1351		11.256259	

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	9	52.5	1887		0.621679	1
1	3	9	66.7	1551	1182	0.711882	
2	1	9	69.4			1.505428	
3	2	9	58.2	1092		2.654061	
4	2	9	82.5	1327		2.680263	
5	2	9	90	1855		3.991624	
6	3	9	99.3	1013	1071	4.156347	
7	3	9	98	1764	1980	5.169981	
8	2	9	73.9	1803		5.434148	
9	2	9	64.4	1886		6.141532	
10	2	9	90.6	1430		7.008849	
11	1	9	62.5			7.641524	
12	3	9	67.5	1564	1320	8.023966	
13	1	9	64.7			8.897625	
14	3	9	90.9	1541	1529	9.497273	
15	3	9	50	1056	1573	10.302275	
16	1	9	51.3			11.121292	
17	1	9	89.5			11.930647	

Bin5 Statistics 30

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	14	96	1868	1447	0.445384	
1	2	14	89.5	1624		0.853077	
2	1	14	82.6			2.388927	
3	3	14	52.3	1294	1689	3.004603	
4	3	14	83.1	1165	1793	3.273217	
5	2	14	92.5	1322		4.655647	
6	1	14	73.2			5.358294	
7	3	14	99.8	1280	1020	5.721889	1
8	1	14	96.7			7.085815	
9	3	14	70.2	1494	1302	7.496663	
10	2	14	52.6	1998		8.595013	
11	2	14	80.9	1730		9.133974	
12	2	14	57.7	1498		9.717878	
13	3	14	51.7	1626	1543	11.036566	
14	1	14	98.5			11.592763	

Table-6 Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)	Hopping Sequence
1	5260	9	1	333	1	5496.0, 5641.0, 5541.0, 5722.0, 5596.0, 5682.0, 5527.0, 5326.0, 5414.0, 5553.0, 5679.0, 5690.0, 5489.0, 5340.0, 5602.0, 5368.0, 5350.0, 5318.0, 5336.0, 5292.0, 5404.0, 5327.0, 5554.0, 5608.0, 5656.0, 5455.0, 5423.0, 5465.0, 5454.0, 5626.0, 5686.0, 5524.0, 5281.0, 5551.0, 5375.0, 5516.0, 5665.0, 5387.0, 5582.0, 5482.0, 5322.0, 5287.0, 5543.0, 5655.0, 5623.0, 5635.0, 5330.0, 5664.0, 5486.0, 5538.0, 5362.0, 5640.0, 5335.0, 5513.0, 5277.0, 5275.0, 5662.0, 5681.0, 5503.0, 5558.0, 5440.0, 5680.0, 5459.0, 5549.0, 5534.0, 5466.0, 5542.0, 5499.0, 5348.0, 5501.0, 5588.0, 5610.0, 5637.0, 5695.0, 5652.0, 5257.0, 5435.0, 5358.0, 5374.0, 5450.0, 5270.0, 5528.0, 5611.0, 5598.0, 5539.0, 5372.0, 5634.0, 5492.0, 5529.0, 5644.0, 5310.0, 5347.0, 5314.0, 5498.0, 5258.0, 5595.0, 5396.0, 5286.0, 5663.0, 5295.0 (number of hits: 2)
2	5260	9	1	333	1	5354.0, 5461.0, 5441.0, 5692.0, 5356.0, 5685.0, 5592.0, 5490.0, 5423.0, 5494.0, 5448.0, 5453.0, 5702.0, 5365.0, 5619.0, 5391.0, 5344.0, 5561.0, 5381.0, 5424.0, 5715.0, 5609.0, 5514.0, 5467.0, 5481.0, 5254.0, 5383.0, 5324.0, 5385.0, 5473.0, 5618.0, 5694.0, 5522.0, 5406.0, 5392.0, 5574.0, 5299.0, 5309.0, 5542.0, 5543.0, 5308.0, 5566.0, 5427.0, 5569.0, 5521.0, 5273.0, 5616.0, 5411.0, 5325.0, 5647.0, 5550.0, 5352.0, 5491.0, 5591.0, 5585.0, 5634.0, 5547.0, 5590.0, 5422.0, 5492.0, 5691.0, 5326.0, 5401.0, 5434.0, 5711.0, 5386.0, 5568.0, 5629.0, 5664.0, 5617.0, 5445.0, 5716.0, 5358.0, 5408.0, 5472.0, 5699.0, 5707.0, 5515.0, 5412.0, 5567.0, 5278.0, 5677.0, 5588.0, 5657.0, 5339.0, 5648.0, 5654.0, 5268.0, 5476.0, 5263.0, 5440.0, 5316.0, 5303.0, 5644.0, 5260.0, 5296.0, 5539.0, 5661.0, 5384.0, 5328.0 (number of hits: 4)
3	5260	9	1	333	1	5484.0, 5321.0, 5340.0, 5389.0, 5354.0, 5458.0, 5626.0, 5254.0, 5606.0, 5293.0, 5495.0, 5633.0, 5261.0, 5518.0, 5285.0, 5330.0, 5689.0, 5432.0, 5665.0, 5478.0, 5333.0, 5391.0, 5558.0, 5534.0, 5332.0, 5660.0, 5430.0, 5444.0, 5716.0, 5654.0, 5310.0, 5463.0, 5541.0, 5468.0, 5642.0, 5693.0, 5678.0, 5520.0, 5631.0, 5273.0, 5537.0, 5705.0, 5545.0, 5475.0, 5492.0, 5356.0, 5717.0, 5359.0, 5647.0, 5686.0, 5554.0, 5419.0, 5692.0, 5369.0, 5304.0,

						5380.0, 5627.0, 5280.0, 5363.0, 5412.0, 5670.0, 5253.0, 5589.0, 5612.0, 5323.0, 5557.0, 5374.0, 5696.0, 5447.0, 5278.0, 5324.0, 5659.0, 5300.0, 5570.0, 5269.0, 5309.0, 5367.0, 5472.0, 5282.0, 5428.0, 5453.0, 5506.0, 5373.0, 5317.0, 5548.0, 5494.0, 5565.0, 5536.0, 5308.0, 5615.0, 5382.0, 5394.0, 5397.0, 5358.0, 5355.0, 5708.0, 5619.0, 5347.0, 5519.0, 5298.0 (number of hits: 3)
4	5260	9	1	333	1	5710.0, 5614.0, 5352.0, 5289.0, 5373.0, 5372.0, 5459.0, 5711.0, 5267.0, 5450.0, 5676.0, 5668.0, 5498.0, 5472.0, 5467.0, 5555.0, 5709.0, 5654.0, 5379.0, 5606.0, 5460.0, 5665.0, 5366.0, 5520.0, 5269.0, 5251.0, 5412.0, 5471.0, 5509.0, 5503.0, 5573.0, 5632.0, 5651.0, 5695.0, 5421.0, 5390.0, 5317.0, 5656.0, 5416.0, 5308.0, 5282.0, 5561.0, 5453.0, 5692.0, 5354.0, 5485.0, 5496.0, 5280.0, 5723.0, 5527.0, 5396.0, 5500.0, 5488.0, 5250.0, 5622.0, 5487.0, 5543.0, 5689.0, 5681.0, 5294.0, 5596.0, 5599.0, 5580.0, 5256.0, 5329.0, 5511.0, 5305.0, 5635.0, 5456.0, 5638.0, 5684.0, 5340.0, 5361.0, 5582.0, 5513.0, 5686.0, 5452.0, 5545.0, 5486.0, 5315.0, 5290.0, 5261.0, 5537.0, 5363.0, 5641.0, 5639.0, 5687.0, 5273.0, 5698.0, 5721.0, 5463.0, 5400.0, 5491.0, 5493.0, 5274.0, 5553.0, 5697.0, 5577.0, 5253.0, 5525.0 (number of hits: 5)
5	5260	9	1	333	1	5723.0, 5396.0, 5383.0, 5254.0, 5722.0, 5411.0, 5442.0, 5312.0, 5286.0, 5477.0, 5678.0, 5681.0, 5290.0, 5581.0, 5368.0, 5483.0, 5491.0, 5380.0, 5419.0, 5542.0, 5401.0, 5495.0, 5426.0, 5587.0, 5718.0, 5695.0, 5492.0, 5435.0, 5694.0, 5666.0, 5609.0, 5712.0, 5453.0, 5293.0, 5536.0, 5524.0, 5321.0, 5484.0, 5657.0, 5328.0, 5600.0, 5338.0, 5533.0, 5281.0, 5672.0, 5451.0, 5580.0, 5425.0, 5652.0, 5255.0, 5539.0, 5507.0, 5575.0, 5351.0, 5400.0, 5519.0, 5438.0, 5574.0, 5659.0, 5314.0, 5309.0, 5320.0, 5604.0, 5660.0, 5685.0, 5532.0, 5566.0, 5508.0, 5490.0, 5353.0, 5537.0, 5485.0, 5479.0, 5363.0, 5297.0, 5573.0, 5431.0, 5630.0, 5543.0, 5638.0, 5339.0, 5522.0, 5534.0, 5300.0, 5529.0, 5326.0, 5298.0, 5423.0, 5264.0, 5252.0, 5572.0, 5615.0, 5535.0, 5262.0, 5588.0, 5276.0, 5424.0, 5625.0, 5333.0, 5648.0 (number of hits: 5)
6	5260	9	1	333	1	5706.0, 5578.0, 5393.0, 5452.0, 5286.0, 5339.0, 5490.0, 5408.0, 5347.0, 5560.0, 5551.0, 5503.0, 5504.0, 5709.0, 5607.0, 5577.0, 5359.0, 5589.0, 5472.0, 5637.0, 5509.0, 5570.0, 5635.0, 5455.0, 5610.0, 5440.0, 5530.0, 5694.0, 5523.0, 5663.0, 5289.0, 5559.0, 5608.0, 5350.0, 5284.0,

						5318.0, 5565.0, 5467.0, 5343.0, 5522.0, 5553.0, 5642.0, 5443.0, 5606.0, 5426.0, 5702.0, 5412.0, 5538.0, 5614.0, 5417.0, 5599.0, 5382.0, 5502.0, 5497.0, 5322.0, 5505.0, 5596.0, 5485.0, 5445.0, 5390.0, 5701.0, 5478.0, 5292.0, 5290.0, 5603.0, 5541.0, 5525.0, 5469.0, 5295.0, 5691.0, 5501.0, 5601.0, 5700.0, 5622.0, 5491.0, 5531.0, 5703.0, 5585.0, 5442.0, 5617.0, 5368.0, 5567.0, 5250.0, 5429.0, 5708.0, 5456.0, 5253.0, 5369.0, 5705.0, 5454.0, 5484.0, 5414.0, 5631.0, 5444.0, 5334.0, 5562.0, 5419.0, 5328.0, 5674.0, 5273.0 (number of hits: 1)
7	5260	9	1	333	1	5432.0, 5666.0, 5258.0, 5629.0, 5556.0, 5383.0, 5448.0, 5627.0, 5295.0, 5553.0, 5443.0, 5267.0, 5506.0, 5292.0, 5366.0, 5631.0, 5261.0, 5354.0, 5395.0, 5272.0, 5461.0, 5311.0, 5268.0, 5488.0, 5370.0, 5652.0, 5270.0, 5342.0, 5462.0, 5523.0, 5449.0, 5425.0, 5444.0, 5554.0, 5422.0, 5470.0, 5597.0, 5349.0, 5441.0, 5501.0, 5555.0, 5595.0, 5368.0, 5310.0, 5522.0, 5667.0, 5492.0, 5406.0, 5485.0, 5536.0, 5328.0, 5487.0, 5650.0, 5437.0, 5672.0, 5296.0, 5294.0, 5718.0, 5608.0, 5289.0, 5275.0, 5362.0, 5658.0, 5634.0, 5391.0, 5408.0, 5560.0, 5609.0, 5697.0, 5526.0, 5340.0, 5624.0, 5684.0, 5511.0, 5665.0, 5293.0, 5494.0, 5544.0, 5625.0, 5378.0, 5548.0, 5611.0, 5281.0, 5401.0, 5454.0, 5367.0, 5643.0, 5279.0, 5710.0, 5706.0, 5417.0, 5545.0, 5252.0, 5681.0, 5253.0, 5297.0, 5530.0, 5473.0, 5585.0, 5705.0 (number of hits: 6)
8	5260	9	1	333	1	5408.0, 5300.0, 5576.0, 5603.0, 5469.0, 5321.0, 5428.0, 5529.0, 5270.0, 5721.0, 5681.0, 5538.0, 5379.0, 5312.0, 5290.0, 5598.0, 5656.0, 5571.0, 5537.0, 5577.0, 5423.0, 5573.0, 5645.0, 5436.0, 5498.0, 5338.0, 5688.0, 5614.0, 5331.0, 5488.0, 5530.0, 5704.0, 5552.0, 5643.0, 5407.0, 5453.0, 5284.0, 5646.0, 5365.0, 5254.0, 5434.0, 5455.0, 5605.0, 5508.0, 5371.0, 5524.0, 5650.0, 5604.0, 5303.0, 5595.0, 5363.0, 5630.0, 5459.0, 5468.0, 5474.0, 5662.0, 5316.0, 5372.0, 5665.0, 5560.0, 5680.0, 5648.0, 5521.0, 5282.0, 5566.0, 5304.0, 5642.0, 5262.0, 5621.0, 5618.0, 5691.0, 5466.0, 5422.0, 5351.0, 5375.0, 5720.0, 5305.0, 5349.0, 5526.0, 5410.0, 5627.0, 5500.0, 5416.0, 5255.0, 5403.0, 5344.0, 5387.0, 5494.0, 5330.0, 5432.0, 5683.0, 5472.0, 5652.0, 5394.0, 5636.0, 5274.0, 5569.0, 5651.0, 5698.0, 5467.0 (number of hits: 3)
9	5260	9	1	333	1	5402.0, 5585.0, 5650.0, 5589.0, 5676.0, 5360.0, 5636.0, 5514.0, 5303.0, 5579.0, 5400.0, 5658.0, 5604.0, 5513.0, 5687.0,

						5542.0, 5362.0, 5299.0, 5699.0, 5297.0, 5328.0, 5592.0, 5597.0, 5352.0, 5261.0, 5414.0, 5624.0, 5290.0, 5723.0, 5661.0, 5293.0, 5683.0, 5330.0, 5588.0, 5423.0, 5553.0, 5339.0, 5285.0, 5482.0, 5250.0, 5575.0, 5670.0, 5692.0, 5471.0, 5564.0, 5580.0, 5437.0, 5410.0, 5270.0, 5282.0, 5497.0, 5586.0, 5309.0, 5582.0, 5700.0, 5612.0, 5615.0, 5584.0, 5393.0, 5538.0, 5272.0, 5268.0, 5641.0, 5355.0, 5256.0, 5544.0, 5354.0, 5416.0, 5499.0, 5312.0, 5353.0, 5561.0, 5430.0, 5543.0, 5440.0, 5366.0, 5519.0, 5384.0, 5478.0, 5407.0, 5387.0, 5436.0, 5566.0, 5594.0, 5574.0, 5600.0, 5539.0, 5721.0, 5341.0, 5487.0, 5640.0, 5618.0, 5257.0, 5420.0, 5391.0, 5648.0, 5590.0, 5455.0, 5704.0, 5672.0 (number of hits: 4)
10	5260	9	1	333	1	5656.0, 5701.0, 5555.0, 5544.0, 5662.0, 5626.0, 5352.0, 5250.0, 5530.0, 5655.0, 5387.0, 5393.0, 5628.0, 5562.0, 5709.0, 5579.0, 5540.0, 5528.0, 5599.0, 5439.0, 5471.0, 5497.0, 5422.0, 5594.0, 5552.0, 5467.0, 5419.0, 5589.0, 5351.0, 5598.0, 5702.0, 5255.0, 5444.0, 5502.0, 5717.0, 5639.0, 5608.0, 5397.0, 5595.0, 5699.0, 5653.0, 5679.0, 5366.0, 5371.0, 5441.0, 5312.0, 5326.0, 5596.0, 5469.0, 5427.0, 5622.0, 5481.0, 5490.0, 5686.0, 5587.0, 5672.0, 5323.0, 5443.0, 5358.0, 5412.0, 5607.0, 5417.0, 5512.0, 5300.0, 5691.0, 5445.0, 5341.0, 5577.0, 5529.0, 5504.0, 5295.0, 5344.0, 5566.0, 5507.0, 5650.0, 5509.0, 5448.0, 5464.0, 5479.0, 5404.0, 5613.0, 5644.0, 5418.0, 5539.0, 5517.0, 5584.0, 5636.0, 5285.0, 5458.0, 5384.0, 5581.0, 5425.0, 5621.0, 5297.0, 5347.0, 5353.0, 5556.0, 5643.0, 5382.0, 5291.0 (number of hits: 1)
11	5250	9	1	333	1	5672.0, 5657.0, 5478.0, 5418.0, 5631.0, 5451.0, 5335.0, 5305.0, 5323.0, 5265.0, 5476.0, 5432.0, 5698.0, 5296.0, 5675.0, 5465.0, 5449.0, 5527.0, 5552.0, 5665.0, 5713.0, 5522.0, 5519.0, 5579.0, 5404.0, 5662.0, 5502.0, 5547.0, 5555.0, 5671.0, 5626.0, 5560.0, 5320.0, 5551.0, 5329.0, 5617.0, 5349.0, 5536.0, 5381.0, 5676.0, 5664.0, 5584.0, 5399.0, 5292.0, 5295.0, 5679.0, 5717.0, 5559.0, 5455.0, 5277.0, 5454.0, 5419.0, 5553.0, 5695.0, 5558.0, 5591.0, 5548.0, 5670.0, 5667.0, 5297.0, 5372.0, 5369.0, 5580.0, 5600.0, 5533.0, 5566.0, 5324.0, 5442.0, 5315.0, 5345.0, 5458.0, 5441.0, 5634.0, 5472.0, 5481.0, 5708.0, 5706.0, 5346.0, 5674.0, 5348.0, 5673.0, 5383.0, 5629.0, 5365.0, 5604.0, 5474.0, 5563.0, 5302.0, 5503.0, 5491.0, 5325.0, 5358.0, 5356.0, 5439.0, 5262.0, 5652.0, 5464.0, 5338.0, 5337.0, 5253.0

						(number of hits: 1)
12	5250	9	1	333	1	5642.0, 5574.0, 5699.0, 5605.0, 5690.0, 5456.0, 5313.0, 5461.0, 5286.0, 5363.0, 5558.0, 5390.0, 5597.0, 5651.0, 5724.0, 5675.0, 5582.0, 5432.0, 5257.0, 5288.0, 5403.0, 5529.0, 5716.0, 5563.0, 5401.0, 5296.0, 5273.0, 5464.0, 5638.0, 5429.0, 5406.0, 5577.0, 5509.0, 5434.0, 5287.0, 5603.0, 5278.0, 5457.0, 5332.0, 5395.0, 5452.0, 5342.0, 5718.0, 5408.0, 5566.0, 5449.0, 5419.0, 5706.0, 5317.0, 5552.0, 5459.0, 5521.0, 5606.0, 5423.0, 5355.0, 5270.0, 5511.0, 5689.0, 5627.0, 5669.0, 5649.0, 5323.0, 5289.0, 5411.0, 5463.0, 5628.0, 5671.0, 5619.0, 5312.0, 5311.0, 5550.0, 5517.0, 5344.0, 5583.0, 5443.0, 5310.0, 5280.0, 5352.0, 5382.0, 5538.0, 5424.0, 5496.0, 5513.0, 5266.0, 5573.0, 5360.0, 5407.0, 5426.0, 5370.0, 5283.0, 5356.0, 5658.0, 5612.0, 5575.0, 5640.0, 5696.0, 5679.0, 5622.0, 5684.0, 5450.0 (number of hits: 1)
13	5250	9	1	333	1	5521.0, 5441.0, 5608.0, 5503.0, 5402.0, 5491.0, 5573.0, 5323.0, 5433.0, 5707.0, 5387.0, 5371.0, 5348.0, 5548.0, 5638.0, 5412.0, 5584.0, 5653.0, 5440.0, 5701.0, 5645.0, 5667.0, 5649.0, 5305.0, 5679.0, 5369.0, 5724.0, 5508.0, 5518.0, 5328.0, 5408.0, 5587.0, 5414.0, 5365.0, 5719.0, 5359.0, 5529.0, 5530.0, 5271.0, 5395.0, 5421.0, 5269.0, 5293.0, 5565.0, 5600.0, 5586.0, 5556.0, 5721.0, 5483.0, 5276.0, 5265.0, 5526.0, 5285.0, 5650.0, 5644.0, 5409.0, 5389.0, 5717.0, 5582.0, 5482.0, 5263.0, 5429.0, 5385.0, 5549.0, 5722.0, 5327.0, 5444.0, 5367.0, 5696.0, 5383.0, 5623.0, 5669.0, 5522.0, 5513.0, 5350.0, 5563.0, 5435.0, 5430.0, 5552.0, 5515.0, 5331.0, 5459.0, 5415.0, 5708.0, 5693.0, 5506.0, 5485.0, 5657.0, 5322.0, 5278.0, 5688.0, 5255.0, 5512.0, 5363.0, 5287.0, 5686.0, 5618.0, 5588.0, 5448.0, 5576.0 (number of hits: 1)
14	5250	9	1	333	1	5268.0, 5388.0, 5280.0, 5579.0, 5698.0, 5508.0, 5620.0, 5325.0, 5696.0, 5457.0, 5654.0, 5590.0, 5436.0, 5462.0, 5318.0, 5276.0, 5681.0, 5653.0, 5422.0, 5686.0, 5640.0, 5386.0, 5477.0, 5476.0, 5290.0, 5571.0, 5646.0, 5603.0, 5643.0, 5510.0, 5458.0, 5536.0, 5421.0, 5407.0, 5440.0, 5617.0, 5659.0, 5483.0, 5469.0, 5338.0, 5437.0, 5667.0, 5319.0, 5587.0, 5285.0, 5550.0, 5347.0, 5591.0, 5621.0, 5642.0, 5534.0, 5426.0, 5492.0, 5379.0, 5503.0, 5403.0, 5625.0, 5390.0, 5677.0, 5565.0, 5597.0, 5377.0, 5372.0, 5298.0, 5599.0, 5598.0, 5348.0, 5564.0, 5700.0, 5315.0, 5635.0, 5486.0, 5584.0, 5714.0, 5463.0, 5254.0, 5540.0, 5629.0, 5502.0, 5491.0,

						5569.0, 5524.0, 5336.0, 5509.0, 5494.0, 5382.0, 5256.0, 5466.0, 5366.0, 5413.0, 5409.0, 5543.0, 5420.0, 5527.0, 5327.0, 5303.0, 5588.0, 5717.0, 5447.0, 5475.0 (number of hits: 2)
15	5250	9	1	333	1	5514.0, 5308.0, 5548.0, 5285.0, 5267.0, 5528.0, 5622.0, 5332.0, 5427.0, 5626.0, 5682.0, 5470.0, 5475.0, 5336.0, 5465.0, 5368.0, 5571.0, 5303.0, 5389.0, 5637.0, 5399.0, 5666.0, 5301.0, 5348.0, 5382.0, 5603.0, 5495.0, 5583.0, 5563.0, 5375.0, 5712.0, 5339.0, 5455.0, 5269.0, 5660.0, 5702.0, 5276.0, 5402.0, 5340.0, 5362.0, 5549.0, 5278.0, 5286.0, 5591.0, 5634.0, 5624.0, 5466.0, 5355.0, 5678.0, 5706.0, 5461.0, 5593.0, 5307.0, 5458.0, 5496.0, 5317.0, 5515.0, 5694.0, 5595.0, 5351.0, 5256.0, 5689.0, 5693.0, 5407.0, 5344.0, 5408.0, 5295.0, 5631.0, 5345.0, 5586.0, 5346.0, 5540.0, 5318.0, 5543.0, 5581.0, 5392.0, 5650.0, 5478.0, 5401.0, 5320.0, 5506.0, 5367.0, 5538.0, 5384.0, 5541.0, 5573.0, 5700.0, 5529.0, 5632.0, 5508.0, 5668.0, 5290.0, 5585.0, 5444.0, 5349.0, 5672.0, 5520.0, 5620.0, 5415.0, 5673.0 (number of hits: 1)
16	5250	9	1	333	1	5255.0, 5600.0, 5510.0, 5615.0, 5434.0, 5266.0, 5421.0, 5588.0, 5718.0, 5332.0, 5595.0, 5612.0, 5306.0, 5623.0, 5698.0, 5454.0, 5285.0, 5704.0, 5265.0, 5592.0, 5684.0, 5397.0, 5293.0, 5319.0, 5268.0, 5270.0, 5712.0, 5489.0, 5687.0, 5372.0, 5269.0, 5647.0, 5292.0, 5430.0, 5532.0, 5699.0, 5481.0, 5713.0, 5320.0, 5716.0, 5448.0, 5572.0, 5438.0, 5385.0, 5345.0, 5514.0, 5368.0, 5695.0, 5506.0, 5603.0, 5423.0, 5656.0, 5484.0, 5620.0, 5646.0, 5400.0, 5289.0, 5518.0, 5295.0, 5673.0, 5337.0, 5389.0, 5361.0, 5335.0, 5378.0, 5350.0, 5263.0, 5432.0, 5594.0, 5386.0, 5353.0, 5461.0, 5511.0, 5677.0, 5675.0, 5669.0, 5590.0, 5472.0, 5608.0, 5541.0, 5464.0, 5534.0, 5676.0, 5376.0, 5426.0, 5450.0, 5316.0, 5276.0, 5307.0, 5563.0, 5290.0, 5652.0, 5638.0, 5686.0, 5715.0, 5601.0, 5696.0, 5697.0, 5264.0, 5708.0 (number of hits: 1)
17	5250	9	1	333	1	5437.0, 5585.0, 5566.0, 5571.0, 5427.0, 5470.0, 5411.0, 5447.0, 5606.0, 5397.0, 5408.0, 5626.0, 5339.0, 5627.0, 5267.0, 5460.0, 5550.0, 5381.0, 5719.0, 5679.0, 5284.0, 5718.0, 5389.0, 5448.0, 5561.0, 5465.0, 5385.0, 5512.0, 5477.0, 5263.0, 5256.0, 5622.0, 5526.0, 5373.0, 5544.0, 5324.0, 5689.0, 5720.0, 5266.0, 5565.0, 5615.0, 5666.0, 5329.0, 5382.0, 5686.0, 5630.0, 5595.0, 5576.0, 5588.0, 5405.0, 5396.0, 5669.0, 5328.0, 5506.0, 5325.0, 5300.0, 5413.0, 5499.0, 5345.0, 5469.0,

						5279.0, 5705.0, 5631.0, 5409.0, 5331.0, 5341.0, 5581.0, 5536.0, 5398.0, 5275.0, 5342.0, 5414.0, 5514.0, 5491.0, 5636.0, 5479.0, 5698.0, 5269.0, 5659.0, 5662.0, 5307.0, 5510.0, 5453.0, 5271.0, 5516.0, 5293.0, 5524.0, 5333.0, 5426.0, 5638.0, 5617.0, 5400.0, 5723.0, 5363.0, 5417.0, 5655.0, 5422.0, 5343.0, 5421.0, 5457.0 (number of hits: 1)
18	5250	9	1	333	1	5550.0, 5382.0, 5626.0, 5607.0, 5522.0, 5282.0, 5515.0, 5501.0, 5685.0, 5425.0, 5660.0, 5489.0, 5604.0, 5531.0, 5451.0, 5283.0, 5444.0, 5266.0, 5291.0, 5582.0, 5646.0, 5581.0, 5560.0, 5363.0, 5400.0, 5674.0, 5490.0, 5372.0, 5527.0, 5584.0, 5630.0, 5398.0, 5504.0, 5592.0, 5379.0, 5355.0, 5456.0, 5366.0, 5577.0, 5427.0, 5263.0, 5529.0, 5443.0, 5588.0, 5318.0, 5483.0, 5508.0, 5325.0, 5603.0, 5437.0, 5565.0, 5375.0, 5418.0, 5276.0, 5435.0, 5612.0, 5611.0, 5694.0, 5403.0, 5568.0, 5693.0, 5524.0, 5628.0, 5562.0, 5412.0, 5533.0, 5506.0, 5468.0, 5572.0, 5407.0, 5721.0, 5424.0, 5683.0, 5671.0, 5701.0, 5601.0, 5453.0, 5304.0, 5336.0, 5618.0, 5700.0, 5401.0, 5666.0, 5502.0, 5679.0, 5317.0, 5373.0, 5555.0, 5690.0, 5288.0, 5579.0, 5354.0, 5543.0, 5521.0, 5487.0, 5546.0, 5429.0, 5505.0, 5384.0, 5252.0 (number of hits: 1)
19	5250	9	1	333	1	5688.0, 5466.0, 5386.0, 5408.0, 5422.0, 5541.0, 5281.0, 5294.0, 5415.0, 5715.0, 5392.0, 5363.0, 5535.0, 5631.0, 5557.0, 5340.0, 5507.0, 5366.0, 5425.0, 5431.0, 5685.0, 5509.0, 5427.0, 5673.0, 5418.0, 5525.0, 5382.0, 5555.0, 5592.0, 5395.0, 5635.0, 5483.0, 5443.0, 5703.0, 5304.0, 5723.0, 5534.0, 5484.0, 5578.0, 5412.0, 5614.0, 5611.0, 5409.0, 5540.0, 5526.0, 5571.0, 5274.0, 5311.0, 5332.0, 5558.0, 5672.0, 5575.0, 5334.0, 5587.0, 5426.0, 5556.0, 5498.0, 5433.0, 5343.0, 5356.0, 5252.0, 5595.0, 5300.0, 5461.0, 5355.0, 5259.0, 5612.0, 5471.0, 5681.0, 5349.0, 5362.0, 5337.0, 5517.0, 5338.0, 5480.0, 5692.0, 5365.0, 5305.0, 5532.0, 5407.0, 5648.0, 5527.0, 5447.0, 5621.0, 5298.0, 5704.0, 5348.0, 5272.0, 5628.0, 5626.0, 5451.0, 5375.0, 5489.0, 5687.0, 5347.0, 5495.0, 5446.0, 5654.0, 5263.0, 5434.0 (number of hits: 1)
20	5250	9	1	333	1	5441.0, 5535.0, 5617.0, 5413.0, 5463.0, 5638.0, 5548.0, 5478.0, 5318.0, 5524.0, 5581.0, 5654.0, 5655.0, 5536.0, 5308.0, 5508.0, 5312.0, 5595.0, 5291.0, 5583.0, 5621.0, 5505.0, 5701.0, 5265.0, 5271.0, 5711.0, 5627.0, 5599.0, 5316.0, 5515.0, 5389.0, 5552.0, 5363.0, 5584.0, 5419.0, 5577.0, 5578.0, 5657.0, 5457.0, 5624.0,

						5488.0, 5648.0, 5556.0, 5425.0, 5361.0, 5417.0, 5456.0, 5511.0, 5346.0, 5492.0, 5379.0, 5377.0, 5618.0, 5367.0, 5464.0, 5629.0, 5261.0, 5430.0, 5448.0, 5672.0, 5342.0, 5674.0, 5278.0, 5305.0, 5373.0, 5540.0, 5605.0, 5277.0, 5462.0, 5403.0, 5340.0, 5560.0, 5347.0, 5668.0, 5378.0, 5288.0, 5408.0, 5708.0, 5682.0, 5423.0, 5559.0, 5337.0, 5386.0, 5714.0, 5615.0, 5532.0, 5634.0, 5715.0, 5353.0, 5268.0, 5428.0, 5362.0, 5435.0, 5646.0, 5522.0, 5420.0, 5306.0, 5688.0, 5416.0, 5258.0 (number of hits: 1)
21	5270	9	1	333	1	5601.0, 5637.0, 5409.0, 5280.0, 5351.0, 5523.0, 5496.0, 5298.0, 5407.0, 5481.0, 5487.0, 5627.0, 5505.0, 5647.0, 5454.0, 5679.0, 5453.0, 5253.0, 5257.0, 5542.0, 5395.0, 5469.0, 5717.0, 5317.0, 5341.0, 5308.0, 5482.0, 5283.0, 5611.0, 5347.0, 5356.0, 5657.0, 5345.0, 5370.0, 5623.0, 5718.0, 5694.0, 5634.0, 5524.0, 5289.0, 5668.0, 5304.0, 5411.0, 5357.0, 5596.0, 5613.0, 5344.0, 5339.0, 5268.0, 5582.0, 5605.0, 5721.0, 5514.0, 5274.0, 5349.0, 5643.0, 5302.0, 5578.0, 5346.0, 5648.0, 5641.0, 5616.0, 5553.0, 5681.0, 5511.0, 5653.0, 5343.0, 5628.0, 5693.0, 5724.0, 5683.0, 5716.0, 5644.0, 5533.0, 5443.0, 5265.0, 5586.0, 5419.0, 5508.0, 5585.0, 5391.0, 5404.0, 5307.0, 5602.0, 5631.0, 5498.0, 5448.0, 5531.0, 5712.0, 5425.0, 5671.0, 5388.0, 5333.0, 5423.0, 5284.0, 5335.0, 5710.0, 5705.0, 5277.0, 5521.0 (number of hits: 4)
22	5270	9	1	333	1	5499.0, 5395.0, 5251.0, 5510.0, 5709.0, 5343.0, 5265.0, 5551.0, 5696.0, 5624.0, 5653.0, 5595.0, 5400.0, 5579.0, 5592.0, 5532.0, 5489.0, 5531.0, 5252.0, 5483.0, 5501.0, 5614.0, 5662.0, 5643.0, 5423.0, 5325.0, 5487.0, 5648.0, 5295.0, 5376.0, 5520.0, 5680.0, 5390.0, 5461.0, 5279.0, 5383.0, 5632.0, 5384.0, 5341.0, 5357.0, 5611.0, 5651.0, 5642.0, 5365.0, 5366.0, 5545.0, 5554.0, 5538.0, 5508.0, 5319.0, 5257.0, 5604.0, 5318.0, 5597.0, 5645.0, 5692.0, 5588.0, 5342.0, 5272.0, 5652.0, 5694.0, 5710.0, 5575.0, 5468.0, 5404.0, 5589.0, 5345.0, 5719.0, 5309.0, 5284.0, 5699.0, 5677.0, 5270.0, 5687.0, 5702.0, 5690.0, 5337.0, 5470.0, 5308.0, 5639.0, 5644.0, 5370.0, 5286.0, 5596.0, 5490.0, 5367.0, 5277.0, 5568.0, 5563.0, 5637.0, 5397.0, 5451.0, 5549.0, 5517.0, 5353.0, 5506.0, 5360.0, 5291.0, 5671.0, 5463.0 (number of hits: 4)
23	5270	9	1	333	1	5719.0, 5347.0, 5418.0, 5657.0, 5610.0, 5698.0, 5350.0, 5266.0, 5661.0, 5541.0, 5310.0, 5670.0, 5697.0, 5341.0, 5345.0, 5723.0, 5296.0, 5467.0, 5323.0, 5601.0,

						5705.0, 5479.0, 5677.0, 5421.0, 5703.0, 5537.0, 5269.0, 5446.0, 5343.0, 5294.0, 5570.0, 5643.0, 5555.0, 5505.0, 5276.0, 5571.0, 5503.0, 5717.0, 5277.0, 5545.0, 5579.0, 5659.0, 5523.0, 5618.0, 5368.0, 5602.0, 5423.0, 5321.0, 5458.0, 5534.0, 5267.0, 5406.0, 5346.0, 5325.0, 5578.0, 5585.0, 5448.0, 5468.0, 5649.0, 5556.0, 5331.0, 5634.0, 5381.0, 5311.0, 5622.0, 5476.0, 5275.0, 5367.0, 5355.0, 5283.0, 5666.0, 5587.0, 5707.0, 5652.0, 5450.0, 5692.0, 5435.0, 5637.0, 5480.0, 5318.0, 5431.0, 5640.0, 5335.0, 5683.0, 5593.0, 5531.0, 5722.0, 5461.0, 5594.0, 5251.0, 5690.0, 5626.0, 5391.0, 5716.0, 5681.0, 5600.0, 5590.0, 5563.0, 5520.0, 5633.0 (number of hits: 6)
24	5270	9	1	333	1	5273.0, 5406.0, 5444.0, 5399.0, 5401.0, 5360.0, 5466.0, 5397.0, 5363.0, 5621.0, 5665.0, 5278.0, 5632.0, 5599.0, 5517.0, 5499.0, 5562.0, 5641.0, 5255.0, 5639.0, 5546.0, 5548.0, 5631.0, 5557.0, 5302.0, 5619.0, 5650.0, 5603.0, 5352.0, 5699.0, 5716.0, 5502.0, 5470.0, 5361.0, 5314.0, 5544.0, 5701.0, 5488.0, 5589.0, 5373.0, 5326.0, 5374.0, 5251.0, 5483.0, 5282.0, 5518.0, 5258.0, 5433.0, 5592.0, 5478.0, 5640.0, 5439.0, 5583.0, 5591.0, 5694.0, 5721.0, 5579.0, 5674.0, 5495.0, 5322.0, 5274.0, 5281.0, 5474.0, 5614.0, 5308.0, 5479.0, 5654.0, 5429.0, 5649.0, 5440.0, 5354.0, 5471.0, 5345.0, 5570.0, 5708.0, 5299.0, 5382.0, 5272.0, 5572.0, 5696.0, 5651.0, 5376.0, 5415.0, 5256.0, 5424.0, 5420.0, 5371.0, 5446.0, 5338.0, 5695.0, 5325.0, 5317.0, 5320.0, 5710.0, 5663.0, 5294.0, 5637.0, 5353.0, 5511.0, 5423.0 (number of hits: 4)
25	5270	9	1	333	1	5431.0, 5695.0, 5686.0, 5526.0, 5717.0, 5315.0, 5292.0, 5301.0, 5406.0, 5723.0, 5280.0, 5561.0, 5486.0, 5575.0, 5321.0, 5278.0, 5290.0, 5569.0, 5660.0, 5291.0, 5283.0, 5461.0, 5624.0, 5484.0, 5456.0, 5346.0, 5443.0, 5642.0, 5586.0, 5454.0, 5472.0, 5302.0, 5713.0, 5402.0, 5674.0, 5552.0, 5488.0, 5544.0, 5541.0, 5697.0, 5528.0, 5394.0, 5420.0, 5614.0, 5647.0, 5355.0, 5279.0, 5551.0, 5593.0, 5505.0, 5342.0, 5310.0, 5521.0, 5401.0, 5336.0, 5380.0, 5419.0, 5692.0, 5440.0, 5599.0, 5664.0, 5303.0, 5252.0, 5527.0, 5357.0, 5672.0, 5356.0, 5589.0, 5721.0, 5580.0, 5376.0, 5637.0, 5432.0, 5722.0, 5533.0, 5447.0, 5537.0, 5416.0, 5610.0, 5650.0, 5648.0, 5285.0, 5594.0, 5331.0, 5352.0, 5435.0, 5620.0, 5445.0, 5555.0, 5364.0, 5469.0, 5418.0, 5463.0, 5596.0, 5465.0, 5655.0, 5511.0, 5635.0, 5634.0, 5344.0 (number of hits: 1)

26	5270	9	1	333	1	5625.0, 5480.0, 5469.0, 5588.0, 5522.0, 5604.0, 5680.0, 5493.0, 5449.0, 5512.0, 5303.0, 5525.0, 5633.0, 5396.0, 5314.0, 5377.0, 5662.0, 5660.0, 5558.0, 5638.0, 5358.0, 5321.0, 5465.0, 5463.0, 5339.0, 5438.0, 5276.0, 5686.0, 5624.0, 5717.0, 5566.0, 5320.0, 5258.0, 5288.0, 5347.0, 5461.0, 5518.0, 5329.0, 5408.0, 5607.0, 5679.0, 5709.0, 5336.0, 5282.0, 5274.0, 5650.0, 5685.0, 5676.0, 5592.0, 5304.0, 5355.0, 5470.0, 5280.0, 5530.0, 5360.0, 5672.0, 5302.0, 5425.0, 5710.0, 5527.0, 5704.0, 5464.0, 5349.0, 5693.0, 5665.0, 5300.0, 5350.0, 5617.0, 5699.0, 5383.0, 5427.0, 5658.0, 5311.0, 5389.0, 5481.0, 5551.0, 5287.0, 5312.0, 5612.0, 5708.0, 5705.0, 5687.0, 5532.0, 5629.0, 5267.0, 5348.0, 5630.0, 5315.0, 5531.0, 5324.0, 5404.0, 5422.0, 5426.0, 5524.0, 5386.0, 5580.0, 5584.0, 5361.0, 5435.0, 5516.0 (number of hits: 3)
27	5270	9	1	333	0	0
28	5270	9	1	333	1	5383.0, 5342.0, 5634.0, 5605.0, 5455.0, 5642.0, 5626.0, 5393.0, 5515.0, 5368.0, 5328.0, 5511.0, 5254.0, 5303.0, 5439.0, 5305.0, 5416.0, 5401.0, 5295.0, 5629.0, 5527.0, 5688.0, 5354.0, 5639.0, 5327.0, 5366.0, 5273.0, 5430.0, 5489.0, 5399.0, 5334.0, 5542.0, 5541.0, 5549.0, 5432.0, 5670.0, 5577.0, 5609.0, 5449.0, 5594.0, 5375.0, 5408.0, 5282.0, 5573.0, 5674.0, 5607.0, 5296.0, 5356.0, 5563.0, 5426.0, 5477.0, 5313.0, 5364.0, 5442.0, 5259.0, 5528.0, 5650.0, 5592.0, 5687.0, 5395.0, 5623.0, 5600.0, 5660.0, 5415.0, 5491.0, 5507.0, 5694.0, 5496.0, 5604.0, 5499.0, 5673.0, 5331.0, 5711.0, 5258.0, 5716.0, 5713.0, 5336.0, 5505.0, 5633.0, 5459.0, 5546.0, 5265.0, 5355.0, 5446.0, 5535.0, 5717.0, 5722.0, 5531.0, 5585.0, 5518.0, 5479.0, 5474.0, 5648.0, 5402.0, 5481.0, 5705.0, 5431.0, 5452.0, 5301.0, 5566.0 (number of hits: 2)
29	5270	9	1	333	1	5445.0, 5703.0, 5541.0, 5619.0, 5650.0, 5328.0, 5342.0, 5585.0, 5355.0, 5336.0, 5651.0, 5485.0, 5377.0, 5536.0, 5513.0, 5642.0, 5333.0, 5587.0, 5294.0, 5721.0, 5697.0, 5380.0, 5514.0, 5403.0, 5538.0, 5468.0, 5566.0, 5517.0, 5484.0, 5504.0, 5274.0, 5605.0, 5402.0, 5598.0, 5350.0, 5518.0, 5595.0, 5435.0, 5353.0, 5327.0, 5534.0, 5427.0, 5285.0, 5572.0, 5716.0, 5708.0, 5545.0, 5719.0, 5618.0, 5357.0, 5412.0, 5292.0, 5369.0, 5345.0, 5401.0, 5356.0, 5548.0, 5685.0, 5707.0, 5253.0, 5659.0, 5505.0, 5700.0, 5516.0, 5267.0, 5442.0, 5296.0, 5646.0, 5307.0, 5321.0, 5361.0, 5254.0, 5554.0, 5550.0, 5474.0, 5640.0, 5467.0, 5425.0, 5715.0, 5293.0,

						5400.0, 5439.0, 5558.0, 5382.0, 5470.0, 5326.0, 5437.0, 5669.0, 5668.0, 5705.0, 5259.0, 5599.0, 5479.0, 5399.0, 5251.0, 5495.0, 5417.0, 5578.0, 5284.0, 5419.0 (number of hits: 2)
30	5270	9	1	333	1	5552.0, 5461.0, 5410.0, 5560.0, 5481.0, 5276.0, 5380.0, 5633.0, 5251.0, 5411.0, 5593.0, 5253.0, 5643.0, 5487.0, 5407.0, 5256.0, 5414.0, 5590.0, 5558.0, 5454.0, 5310.0, 5381.0, 5356.0, 5412.0, 5509.0, 5281.0, 5326.0, 5555.0, 5717.0, 5403.0, 5409.0, 5613.0, 5631.0, 5456.0, 5440.0, 5288.0, 5450.0, 5285.0, 5518.0, 5375.0, 5345.0, 5596.0, 5537.0, 5564.0, 5459.0, 5262.0, 5358.0, 5419.0, 5696.0, 5379.0, 5372.0, 5475.0, 5303.0, 5660.0, 5346.0, 5476.0, 5520.0, 5478.0, 5722.0, 5445.0, 5460.0, 5677.0, 5374.0, 5576.0, 5567.0, 5701.0, 5682.0, 5561.0, 5551.0, 5525.0, 5495.0, 5684.0, 5315.0, 5508.0, 5617.0, 5275.0, 5577.0, 5488.0, 5430.0, 5675.0, 5532.0, 5330.0, 5668.0, 5321.0, 5720.0, 5389.0, 5394.0, 5713.0, 5348.0, 5514.0, 5306.0, 5583.0, 5500.0, 5435.0, 5538.0, 5277.0, 5608.0, 5286.0, 5464.0, 5492.0 (number of hits: 4)

5270 MHz, 40 MHz Bandwidth

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1A/1B	30	100 %	60%	Pass
Type 2	30	100 %	60%	Pass
Type 3	30	80 %	60%	Pass
Type 4	30	100 %	60%	Pass
Aggregate (Type1 to 4)	120	95 %	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	95	1	558	1
2	5270	18	1	3066	1
3	5270	86	1	618	1
4	5270	76	1	698	1
5	5270	70	1	758	1
6	5250	99	1	538	1
7	5250	65	1	818	1
8	5250	63	1	838	1
9	5250	61	1	878	1
10	5290	59	1	898	1
11	5290	81	1	658	1
12	5290	68	1	778	1
13	5290	67	1	798	1
14	5290	72	1	738	1
15	5290	92	1	578	1
16	5270	22	1	2479	1
17	5270	26	1	2099	1
18	5270	40	1	1345	1
19	5270	43	1	1235	1
20	5270	31	1	1728	1
21	5250	25	1	2141	1
22	5250	27	1	2004	1
23	5250	21	1	2589	1
24	5250	23	1	2304	1
25	5290	92	1	577	1
26	5290	48	1	1120	1
27	5290	28	1	1906	1
28	5290	19	1	2882	1
29	5290	38	1	1399	1
30	5290	18	1	3060	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	26	4.3	171	1
2	5270	27	1.2	184	1
3	5270	25	2.9	199	1
4	5270	26	1.4	150	1
5	5270	28	1.9	221	1
6	5270	25	2.1	224	1
7	5270	28	3.1	185	1
8	5270	23	2.5	181	1
9	5270	27	2.4	185	1
10	5270	25	4	165	1
11	5250	29	2.4	172	1
12	5250	24	1.3	162	1
13	5250	28	2.2	169	1
14	5250	28	2.5	220	1
15	5250	28	3.7	159	1
16	5250	24	3.4	219	1
17	5250	25	3.6	150	1
18	5250	29	2.3	191	1
19	5250	26	1.1	223	1
20	5250	27	3.3	229	1
21	5290	25	2.4	200	1
22	5290	24	1.6	222	1
23	5290	23	1.2	202	1
24	5290	25	1.6	211	1
25	5290	24	1.1	194	1
26	5290	25	1.7	179	1
27	5290	26	1.1	195	1
28	5290	27	2.3	179	1
29	5290	26	2.6	163	1
30	5290	27	3.6	153	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	18	7.6	280	1
2	5270	16	7.9	258	1
3	5270	16	6.5	249	1
4	5270	17	9.4	353	1
5	5270	16	6	284	1
6	5270	16	9.1	352	1
7	5270	18	8.8	239	1
8	5270	18	9.5	390	1
9	5270	17	7.7	389	1
10	5270	16	9.2	364	1
11	5250	17	6.6	374	0
12	5250	16	7.9	454	0
13	5250	17	8.5	492	1
14	5250	18	10	354	1
15	5250	17	9.5	209	0
16	5250	18	7.3	322	0
17	5250	18	9.9	482	1
18	5250	17	8.6	308	1
19	5250	18	9.1	272	1
20	5250	16	6.9	257	1
21	5290	18	6.7	368	1
22	5290	17	7.1	268	1
23	5290	16	9.7	325	0
24	5290	17	9.9	472	1
25	5290	17	9.3	211	1
26	5290	18	6	500	0
27	5290	16	7.8	285	1
28	5290	16	7.6	228	1
29	5290	18	8.2	291	1
30	5290	16	9.1	448	1
Detection Percentage: 80 % (>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	13	17.6	472	1
2	5270	12	11	327	1
3	5270	14	17.9	336	1
4	5270	14	17.5	424	1
5	5270	16	18.6	432	1
6	5270	14	11	233	1
7	5270	16	15.3	396	1
8	5270	14	19.1	331	1
9	5270	14	17.3	401	1
10	5270	15	15.4	301	1
11	5250	13	12.3	417	1
12	5250	14	12.3	202	1
13	5250	16	13.2	327	1
14	5250	16	18.1	344	1
15	5250	16	14.5	457	1
16	5250	16	18.1	355	1
17	5250	12	19.3	368	1
18	5250	16	15.3	429	1
19	5250	14	13.5	396	1
20	5250	15	18.2	292	1
21	5290	12	18.8	278	1
22	5290	15	13.5	318	1
23	5290	12	15.2	202	1
24	5290	13	14.7	400	1
25	5290	12	15.7	224	1
26	5290	15	11.2	201	1
27	5290	12	12.4	431	1
28	5290	13	16.7	271	1
29	5290	16	11.6	231	1
30	5290	14	15.7	272	1
Detection Percentage: 100 % (>60%)					

Table-5 Radar Type 5 Statistical Performance

Trial #	Fc (MHz)	Detection (1:yes; 0:no)
1	5270	1
2	5270	1
3	5270	1
4	5270	1
5	5270	1
6	5270	1
7	5270	1
8	5270	1
9	5270	1
10	5270	1
11	5256.3	1
12	5255.5	1
13	5255.9	1
14	5255.9	1
15	5256.3	1
16	5255.9	1
17	5259.1	1
18	5255.1	1
19	5255.9	1
20	5253.5	1
21	5282.5	1
22	5281.7	1
23	5280.9	1
24	5281.3	1
25	5281.7	1
26	5282.1	1
27	5282.5	1
28	5282.5	1
29	5282.5	1
30	5282.9	1
Detection Percentage: 100 % (>80%)		

Bin5 Statistics 1

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	10	52.6			0.413329	
1	2	10	73.8	1559		1.038841	
2	2	10	71.8	1855		2.606978	
3	2	10	78.8	1723		3.269471	
4	1	10	91.9			4.366056	
5	3	10	71.5	1984	1628	5.313308	
6	2	10	60.1	1806		6.442622	1
7	2	10	91.8	1556		6.91339	
8	3	10	78.9	1987	1832	7.872057	
9	2	10	66.9	1477		8.98593	
10	2	10	96.6	1049		9.38342	
11	1	10	57.8			10.401649	
12	2	10	85.8	1824		11.839929	

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	13	94	1380	1387	0.010122	
1	3	13	92.5	1202	1518	0.886679	
2	2	13	89.9	1433		1.757681	
3	3	13	76.3	1885	1939	2.54356	
4	2	13	71.9	1826		3.261159	
5	2	13	52.2	1458		4.006198	
6	2	13	86.4	1567		4.612321	
7	1	13	68.1			5.268126	
8	2	13	98.1	1956		6.177054	1
9	1	13	59.7			6.553575	
10	2	13	96.1	1711		7.23851	
11	2	13	52.2	1118		7.988196	
12	2	13	71.6	1942		8.706415	
13	2	13	74.7	1504		9.277125	
14	2	13	96.7	1225		10.137709	
15	2	13	91.6	1194		11.145899	
16	3	13	68.5	1339	1563	11.981584	

Bin5 Statistics 3

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	12	68.9	1997	1059	0.225067	1
1	3	12	74.5	1426	1768	1.378717	
2	2	12	52.8	1939		1.803814	
3	2	12	52.6	1667		2.559539	
4	2	12	65	1588		3.40119	
5	1	12	72.1			4.122986	
6	2	12	87.6	1317		4.954045	
7	1	12	83.2			5.853051	
8	2	12	67.6	1223		6.403852	
9	2	12	94.7	1785		7.458301	
10	3	12	87.4	1713	1826	7.943849	
11	2	12	98	1392		8.66187	
12	2	12	96.6	1732		9.170359	
13	2	12	51.6	1315		9.864278	
14	3	12	52.9	1286	1512	10.588939	
15	3	12	87.7	1886	1466	11.919906	

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	16	67			0.746782	1
1	2	16	83.5	1483		0.997046	
2	2	16	57	1716		1.950443	
3	2	16	72.7	1456		3.402862	
4	2	16	50.8	1586		4.064972	
5	2	16	78.9	1917		4.691668	
6	1	16	75.9			6.243111	
7	3	16	89.6	1366	1886	6.819594	
8	3	16	71.6	1741	1893	8.257666	
9	1	16	81.3			8.773622	
10	2	16	72	1922		9.327699	
11	3	16	69.5	1728	1081	10.858769	
12	2	16	69.6	1477		11.285169	

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	7	92.8	1056		0.117389	1
1	2	7	65.1	1580		1.153905	
2	3	7	53.5	1838	1576	1.703055	
3	2	7	69.1	1410		2.489775	
4	1	7	63.2			3.319804	
5	1	7	67.7			3.644097	
6	2	7	92.7	1940		4.260266	
7	2	7	78.2	1219		5.198219	
8	2	7	60.2	1739		5.45001	
9	2	7	78.6	1798		6.036796	
10	3	7	53.2	1155	1851	7.115307	
11	2	7	53.1	1941		7.723207	
12	2	7	74.9	1984		8.504494	
13	1	7	96.4			8.87294	
14	2	7	86.5	1767		9.613202	
15	2	7	58.1	1575		10.219407	
16	2	7	84.2	1109		11.225354	
17	1	7	61.9			11.622664	

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	7	75.8			0.447483	
1	1	7	95			0.939641	
2	2	7	68.5	1386		2.06046	
3	3	7	60.5	1301	1962	2.629993	
4	3	7	68.8	1346	1890	3.412114	
5	2	7	60.2	1390		4.020343	
6	1	7	72.2			4.548895	
7	1	7	99.1			5.091018	
8	3	7	84.7	1453	1528	6.2336	1
9	2	7	67.5	1770		6.721082	
10	2	7	72.8	1515		7.10344	
11	3	7	98.7	1794	1270	8.235281	
12	1	7	64.5			9.152892	
13	2	7	70.4	1155		9.689416	
14	2	7	88.3	1135		9.907352	
15	2	7	75.9	1626		10.788639	
16	2	7	95.1	1642		11.63418	

Bin5 Statistics 7

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	15	56.4			0.383243	
1	2	15	79.6	1693		1.500294	
2	3	15	87.3	1441	1067	2.552379	
3	2	15	64.2	1699		3.064777	
4	3	15	99.4	1376	1776	3.848328	
5	1	15	93.6			4.725749	
6	2	15	69.1	1952		6.407619	1
7	2	15	59	1893		6.495628	
8	3	15	77.1	1815	1204	8.166863	
9	1	15	84			9.087238	
10	2	15	98.9	1634		9.659848	
11	2	15	79.4	1077		10.38484	
12	2	15	56.5	1398		11.102875	

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	9	61.7	1312		0.242436	
1	2	9	87.6	1184		1.718595	
2	3	9	78.4	1130	1315	2.24321	
3	2	9	68.3	1840		2.9788	
4	2	9	98.9	1246		4.215427	
5	2	9	59.9	1075		4.809226	
6	1	9	84.4			6.131157	1
7	2	9	99.5	1560		6.499704	
8	2	9	76.3	1581		8.289994	
9	2	9	60.9	1078		9.063481	
10	2	9	55.8	1688		9.939211	
11	2	9	50.4	1907		10.908531	
12	2	9	88.3	1404		11.770383	

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	16	90.7			1.326625	
1	2	16	80	1602		2.845471	
2	2	16	80.9	1834		4.30896	
3	1	16	51.8			5.549624	
4	3	16	64.7	1465	1849	6.975479	1
5	2	16	90.7	1731		8.634292	
6	1	16	58.7			10.426532	
7	1	16	85.7			11.839046	

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	6	98.7			0.459139	
1	2	6	71.9	1374		1.23542	
2	1	6	80.9			2.020734	
3	3	6	66	1960	1130	2.679323	
4	2	6	94.2	1833		3.430007	
5	2	6	55.8	1343		4.127493	
6	3	6	55.8	1920	1926	5.532752	1
7	2	6	90.1	1481		5.857516	
8	2	6	97.8	1711		6.728656	
9	2	6	74.6	1111		7.33403	
10	2	6	73.2	1445		8.436183	
11	2	6	53.8	1846		9.207171	
12	2	6	84.3	1542		10.090329	

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	12	76.5			0.577105	
1	2	12	77.8	1429		1.306074	
2	2	12	59.7	1238		2.010938	
3	2	12	54.2	1894		3.057561	
4	1	12	93.1			3.619626	
5	1	12	54.1			4.385309	
6	1	12	94.5			5.226987	
7	2	12	96.6	1940		6.242372	1
8	2	12	57.8	1596		6.629974	
9	1	12	78.7			7.847194	
10	3	12	63.3	1712	1539	8.784436	
11	3	12	91.7	1229	1262	9.029651	
12	3	12	98.1	1756	1516	9.966841	
13	3	12	96.3	1833	1824	10.454594	
14	2	12	72.4	1389		11.925168	

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	79	1559		0.905746	
1	2	10	55.3	1124		1.01866	
2	3	10	77.5	1856	1891	2.743024	
3	3	10	95.8	1009	1348	2.952267	
4	2	10	63.2	1323		3.720547	
5	1	10	89.3			4.870349	
6	2	10	52.5	1543		6.302671	1
7	2	10	85.2	1885		7.10193	
8	2	10	79.4	1510		7.765708	
9	3	10	73.1	1660	1369	8.80788	
10	1	10	64.3			9.441627	
11	1	10	61.1			10.968398	
12	3	10	69.1	1877	1296	11.275831	

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	60.5	1720		0.489488	
1	3	11	50.5	1966	1895	0.849333	
2	2	11	64.5	1759		1.340277	
3	2	11	96.4	1801		1.960125	
4	2	11	88	1296		3.129696	
5	2	11	65	1558		3.775975	
6	1	11	96.8			4.133568	
7	1	11	62.3			4.984086	
8	1	11	95.6			5.618352	
9	1	11	91.2			6.016949	1
10	3	11	85.6	1809	1824	6.526362	
11	3	11	96	1610	1674	7.462358	
12	2	11	52.9	1427		7.976287	
13	1	11	60.1			8.437386	
14	2	11	66.9	1670		9.101778	
15	2	11	52.9	1218		9.832557	
16	2	11	66.4	1534		10.108013	
17	2	11	98	1481		10.949191	
18	2	11	79.5	1632		11.832005	

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	11	78.9			0.501268	
1	3	11	59.1	1910	1769	1.670593	
2	1	11	52.1			3.060284	
3	2	11	73.1	1107		4.416936	
4	3	11	68.2	1406	1664	5.348357	1
5	2	11	67.7	1353		6.752199	
6	1	11	71.9			8.567722	
7	1	11	87.3			10.579957	
8	1	11	72.2			11.386091	

Bin5 Statistics 15

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	12	81	1250		0.087062	
1	1	12	64.7			1.370247	
2	2	12	73.7	1665		2.060795	
3	2	12	60.5	1093		2.607272	
4	1	12	79.1			4.178775	
5	1	12	96			4.791372	
6	2	12	96	1106		5.442097	
7	1	12	92.6			6.336892	
8	3	12	71	1817	1049	6.98148	1
9	1	12	66.8			8.133667	
10	3	12	54.5	1814	1611	9.387448	
11	2	12	55.5	1032		9.83826	
12	1	12	71.5			10.999248	
13	2	12	99.7	1749		11.399994	
14	2	11	66.9	1670		9.101778	
15	2	11	52.9	1218		9.832557	

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	11	57.4	1074	1978	0.113367	1
1	2	11	76.6	1137		0.8212	
2	1	11	92.7			1.799236	
3	2	11	73.2	1117		2.377972	
4	2	11	86.6	1934		3.050825	
5	1	11	89.9			4.231466	
6	1	11	98			5.183018	
7	2	11	88.7	1390		5.796543	
8	1	11	83.8			6.308989	
9	1	11	70.8			7.004261	
10	1	11	80.9			7.921284	
11	2	11	76	1908		8.477977	
12	2	11	89.2	1617		9.357354	
13	2	11	87.9	1470		10.436596	
14	2	11	89.5	1921		10.932459	
15	2	11	64.7	1209		11.340821	

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	19	90.7			0.662776	
1	2	19	64.7	1090		1.183483	
2	2	19	74.7	1473		3.226904	
3	2	19	83	1881		4.122768	
4	2	19	54	1245		4.864205	
5	2	19	93.5	1450		6.150647	1
6	3	19	56	1937	1517	7.381097	
7	2	19	59.8	1235		8.438438	
8	3	19	61.4	1038	1050	8.911855	
9	1	19	69.9			10.805729	
10	2	19	61.4	1546		11.342579	

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	79.6	1858		0.491953	
1	2	9	74	1564		1.29596	
2	2	9	68.1	1094		1.508754	
3	2	9	52	1350		2.408798	
4	1	9	89			2.899346	
5	2	9	60.7	1973		4.009	
6	2	9	71.6	1784		4.904577	
7	2	9	73.6	1286		5.097897	
8	2	9	57.8	1819		6.336743	1
9	1	9	84.6			6.699877	
10	2	9	59.5	1087		7.454835	
11	2	9	54.9	1765		8.178668	
12	2	9	58.5	1870		9.122797	
13	3	9	62.5	1188	1281	9.3514	
14	2	9	59.7	1712		10.416216	
15	3	9	84.9	1381	1546	10.8382	
16	1	9	50.3			11.926211	

Bin5 Statistics 19

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	11	87.6			0.852215	1
1	3	11	63.3	1067	1232	1.978887	
2	2	11	52.2	1296		3.059137	
3	2	11	57.5	1754		4.198411	
4	1	11	89.9			4.684317	
5	3	11	85.3	1821	1234	6.009887	
6	1	11	70.2			7.279386	
7	3	11	99.6	1012	1548	8.171936	
8	1	11	79.9			9.313891	
9	2	11	99.5	1479		10.249056	
10	2	11	50.1	1010		11.282897	

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	5	57.5	1705	1298	0.218384	1
1	3	5	85.9	1675	1401	0.904551	
2	2	5	86.7	1767		1.507873	
3	2	5	81	1624		1.900808	
4	3	5	99.7	1856	1856	2.510473	
5	2	5	99.8	1826		3.2872	
6	2	5	63.4	1123		4.090807	
7	2	5	79.7	1064		4.343528	
8	2	5	88.1	1672		5.074279	
9	2	5	73.8	1856		5.433768	
10	1	5	92.8			6.153696	
11	1	5	52.8			6.739575	
12	2	5	66.6	1928		7.35683	
13	2	5	77.3	1919		7.864611	
14	3	5	95.2	1309	1169	8.915263	
15	3	5	90	1905	1495	9.397109	
16	2	5	93	1632		10.046401	
17	2	5	59.4	1385		10.655328	
18	3	5	80	1137	1112	11.280254	
19	3	5	64.3	1959	1916	11.884423	

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	15	96.6	1003	1738	0.090154	
1	1	15	67.1			0.719996	
2	1	15	78.8			1.913514	
3	2	15	68.6	1661		2.728539	
4	1	15	64.1			2.971193	
5	3	15	97.6	1484	1710	3.645942	
6	2	15	69.3	1178		4.302979	
7	1	15	66.1			5.535118	
8	1	15	89.8			6.120948	1
9	2	15	94.3	1396		6.966956	
10	2	15	50.1	1061		7.49385	
11	2	15	85.7	1942		8.12751	
12	2	15	60.6	1254		9.137517	
13	3	15	78.6	1699	1309	9.68099	
14	2	15	63.4	1100		10.47032	
15	3	15	53.8	1566	1648	11.260146	
16	1	15	68.9			11.813535	

Bin5 Statistics 22

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	17	99.3	1041		0.179438	
1	2	17	94.7	1612		1.283563	
2	2	17	77.7	1759		1.691928	
3	2	17	92.4	1692		2.269458	
4	3	17	55.3	1109	1745	3.074684	
5	1	17	83.2			3.932132	
6	2	17	86.8	1187		4.540286	
7	2	17	75.4	1034		5.059983	
8	2	17	84.4	1652		6.039454	1
9	2	17	82.6	1939		6.367782	
10	1	17	58.1			7.75057	
11	2	17	74.7	1861		8.04908	
12	2	17	98.6	1692		8.742667	
13	2	17	51.4	1082		9.800449	
14	3	17	86.2	1239	1669	10.510756	
15	2	17	56.6	1477		10.604109	
16	2	17	77.7	1883		11.851895	

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	19	88.2	1366		0.909755	1
1	2	19	87.8	1959		1.158319	
2	2	19	73.2	1314		2.088426	
3	1	19	53.6			3.801962	
4	2	19	99.5	1038		4.649917	
5	3	19	81.3	1133	1698	5.13398	
6	2	19	93.5	1934		6.144381	
7	2	19	96	1316		7.230186	
8	1	19	52.2			8.993927	
9	3	19	70.3	1635	1701	9.196354	
10	3	19	96.3	1006	1165	10.761947	
11	2	19	77.5	1950		11.877441	

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	94.2	1374	1051	1.188739	1
1	1	18	75.7			2.398533	
2	2	18	67.8	1458		3.095537	
3	2	18	51.1	1281		4.038116	
4	3	18	61.6	1574	1074	6.241316	
5	2	18	98.7	1213		7.985365	
6	2	18	96.4	1460		8.952837	
7	2	18	88	1370		9.955529	
8	2	18	97.4	1214		11.077795	

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	17	57.7	1700		0.438042	
1	3	17	76.4	1629	1199	0.981517	
2	2	17	59.8	1240		1.8017	
3	1	17	71			2.607138	
4	2	17	88.1	1363		3.703726	
5	2	17	73.4	1399		4.262001	
6	3	17	77.3	1546	1167	5.181809	
7	2	17	69.1	1481		6.025905	1
8	1	17	79.9			6.99625	
9	3	17	69.2	1281	1847	7.8281	
10	1	17	77			8.545435	
11	2	17	78.9	1309		9.130474	
12	2	17	85.7	1866		9.846966	
13	1	17	65.1			10.732808	
14	1	17	60.4			11.21754	

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	16	84.4	1431	1305	0.324075	
1	1	16	56.7			1.417407	
2	2	16	56.8	1450		2.702098	
3	2	16	97.4	1149		3.073468	
4	2	16	77.9	1292		4.589144	
5	2	16	59.6	1001		5.70298	
6	2	16	58.9	1050		6.459539	1
7	2	16	91.5	1380		7.678025	
8	1	16	53.2			8.625955	
9	1	16	95.4			9.469207	
10	3	16	73.9	1062	1762	10.145498	
11	1	16	58.8			11.100491	

Bin5 Statistics 27

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	15	56.5	1809		0.047023	
1	2	15	85.6	1576		0.890868	
2	1	15	71.6			1.783824	
3	2	15	94.7	1902		2.728733	
4	2	15	98.7	1662		3.13934	
5	1	15	73.3			4.458105	
6	3	15	94.4	1263	1363	4.689976	
7	2	15	69.7	1532		5.810729	1
8	2	15	74.4	1193		6.698404	
9	2	15	85.7	1496		6.832905	
10	2	15	66.4	1162		8.207946	
11	2	15	66.8	1985		8.633937	
12	2	15	51.9	1750		9.611653	
13	1	15	97.5			10.222913	
14	3	15	59	1598	1371	10.63892	
15	2	15	59.2	1560		11.259683	

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	15	82.8	1532		0.80247	
1	2	15	57.6	1731		1.118815	
2	3	15	71.9	1610	1871	2.580583	
3	3	15	95.7	1339	1217	3.814164	
4	3	15	96.2	1172	1148	4.392789	
5	1	15	93.5			5.978143	1
6	3	15	74.4	1692	1556	6.271705	
7	1	15	84.7			7.103056	
8	2	15	84.8	1203		8.730459	
9	2	15	64.4	1477		9.462315	
10	3	15	55.3	1922	1634	10.630957	
11	3	15	83.4	1418	1105	11.180665	

Bin5 Statistics 29

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	15	89.7			0.252586	1
1	3	15	91.3	1283	1715	1.358784	
2	2	15	73.3	1384		1.688963	
3	1	15	51.4			2.704627	
4	1	15	79.4			3.564852	
5	2	15	96.5	1078		3.999262	
6	3	15	62.2	1945	1765	4.764196	
7	2	15	50.4	1416		5.560446	
8	3	15	87.9	1017	1925	6.643066	
9	3	15	61.1	1352	1566	7.137048	
10	1	15	74.2			7.820141	
11	1	15	66.3			8.944153	
12	1	15	93.8			9.72171	
13	1	15	67.9			10.145565	
14	2	15	80.1	1649		10.60737	
15	2	15	94.5	1224		11.973273	

Bin5 Statistics 30

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	14	69.3	1469		0.452604	1
1	2	14	56.1	1754		1.093355	
2	2	14	69.2	1700		1.641338	
3	3	14	95.9	1360	1387	1.950848	
4	3	14	86.1	1953	1680	2.598303	
5	2	14	56.8	1483		3.407524	
6	3	14	83.3	1280	1832	4.365002	
7	2	14	77.7	1637		4.643728	
8	2	14	84.1	1937		5.357878	
9	3	14	67.9	1214	1097	6.149671	
10	1	14	83.5			6.868837	
11	2	14	76.9	1343		6.998135	
12	2	14	92.5	1526		7.883718	
13	2	14	60	1858		8.513416	
14	3	14	98.5	1963	1428	8.86479	
15	2	14	89.8	1838		10.074409	
16	1	14	82.7			10.110564	
17	1	14	62.4			11.344557	
18	2	14	52.3	1592		11.54791	

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	5324.0, 5315.0, 5531.0, 5410.0, 5400.0, 5668.0, 5621.0, 5704.0, 5483.0, 5409.0, 5252.0, 5578.0, 5706.0, 5548.0, 5453.0, 5554.0, 5454.0, 5473.0, 5652.0, 5613.0, 5257.0, 5267.0, 5630.0, 5675.0, 5455.0, 5468.0, 5650.0, 5543.0, 5430.0, 5357.0, 5278.0, 5583.0, 5559.0, 5339.0, 5306.0, 5361.0, 5378.0, 5285.0, 5499.0, 5672.0, 5685.0, 5442.0, 5505.0, 5293.0, 5460.0, 5272.0, 5347.0, 5662.0, 5263.0, 5322.0, 5417.0, 5644.0, 5402.0, 5680.0, 5614.0, 5395.0, 5334.0, 5350.0, 5529.0, 5310.0, 5523.0, 5462.0, 5661.0, 5565.0, 5653.0, 5541.0, 5577.0, 5693.0, 5311.0, 5493.0, 5570.0, 5300.0, 5701.0, 5514.0, 5522.0, 5279.0, 5403.0, 5437.0, 5646.0, 5273.0, 5438.0, 5605.0, 5418.0, 5282.0, 5329.0, 5388.0, 5456.0, 5633.0, 5623.0, 5643.0, 5375.0, 5399.0, 5700.0, 5546.0, 5331.0, 5694.0, 5422.0, 5485.0, 5270.0, 5280.0 (number of hits: 12)
2	5270	9	1	333	1	5413.0, 5674.0, 5251.0, 5563.0, 5405.0, 5289.0, 5297.0, 5682.0, 5665.0, 5381.0, 5299.0, 5608.0, 5620.0, 5409.0, 5325.0, 5529.0, 5545.0, 5693.0, 5664.0, 5551.0, 5645.0, 5500.0, 5542.0, 5388.0, 5689.0, 5368.0, 5630.0, 5671.0, 5521.0, 5461.0, 5579.0, 5414.0, 5523.0, 5724.0, 5651.0, 5481.0, 5679.0, 5350.0, 5721.0, 5379.0, 5364.0, 5640.0, 5478.0, 5318.0, 5284.0, 5691.0, 5486.0, 5400.0, 5383.0, 5561.0, 5397.0, 5557.0, 5317.0, 5722.0, 5582.0, 5422.0, 5549.0, 5425.0, 5624.0, 5543.0, 5442.0, 5701.0, 5427.0, 5307.0, 5392.0, 5647.0, 5329.0, 5342.0, 5569.0, 5537.0, 5441.0, 5515.0, 5386.0, 5550.0, 5497.0, 5390.0, 5513.0, 5470.0, 5330.0, 5533.0, 5619.0, 5585.0, 5287.0, 5321.0, 5464.0, 5336.0, 5520.0, 5498.0, 5496.0, 5583.0, 5611.0, 5698.0, 5396.0, 5462.0, 5531.0, 5469.0, 5354.0, 5560.0, 5292.0, 5504.0 (number of hits: 2)
3	5270	9	1	333	1	5650.0, 5549.0, 5484.0, 5526.0, 5584.0, 5632.0, 5556.0, 5640.0, 5317.0, 5444.0, 5252.0, 5649.0, 5561.0, 5494.0, 5297.0, 5382.0, 5512.0, 5289.0, 5521.0, 5496.0, 5717.0, 5261.0, 5422.0, 5326.0, 5589.0, 5547.0, 5669.0, 5455.0, 5381.0, 5619.0, 5504.0, 5702.0, 5375.0, 5391.0, 5639.0, 5655.0, 5373.0, 5615.0, 5558.0, 5457.0, 5390.0, 5418.0, 5428.0, 5355.0, 5291.0, 5626.0, 5588.0, 5679.0, 5414.0, 5550.0, 5563.0, 5456.0, 5311.0, 5693.0, 5435.0, 5498.0, 5351.0, 5266.0, 5499.0, 5353.0,

						5656.0, 5591.0, 5701.0, 5416.0, 5501.0, 5333.0, 5275.0, 5452.0, 5678.0, 5707.0, 5410.0, 5546.0, 5513.0, 5464.0, 5644.0, 5471.0, 5652.0, 5676.0, 5675.0, 5358.0, 5695.0, 5420.0, 5478.0, 5442.0, 5426.0, 5363.0, 5624.0, 5454.0, 5406.0, 5603.0, 5510.0, 5642.0, 5421.0, 5703.0, 5684.0, 5637.0, 5328.0, 5586.0, 5613.0, 5704.0 (number of hits: 4)
4	5270	9	1	333	1	5446.0, 5506.0, 5288.0, 5720.0, 5563.0, 5355.0, 5670.0, 5664.0, 5650.0, 5505.0, 5519.0, 5596.0, 5434.0, 5470.0, 5400.0, 5542.0, 5593.0, 5292.0, 5253.0, 5481.0, 5491.0, 5721.0, 5410.0, 5318.0, 5332.0, 5317.0, 5343.0, 5703.0, 5495.0, 5334.0, 5574.0, 5527.0, 5602.0, 5353.0, 5535.0, 5395.0, 5536.0, 5425.0, 5483.0, 5710.0, 5713.0, 5439.0, 5452.0, 5692.0, 5283.0, 5486.0, 5551.0, 5460.0, 5624.0, 5306.0, 5554.0, 5518.0, 5376.0, 5509.0, 5265.0, 5251.0, 5275.0, 5640.0, 5513.0, 5588.0, 5295.0, 5368.0, 5559.0, 5686.0, 5263.0, 5466.0, 5449.0, 5668.0, 5673.0, 5564.0, 5428.0, 5303.0, 5328.0, 5398.0, 5507.0, 5341.0, 5304.0, 5584.0, 5344.0, 5369.0, 5553.0, 5329.0, 5633.0, 5409.0, 5254.0, 5489.0, 5373.0, 5697.0, 5269.0, 5605.0, 5337.0, 5695.0, 5451.0, 5671.0, 5597.0, 5366.0, 5680.0, 5696.0, 5654.0, 5264.0 (number of hits: 8)
5	5270	9	1	333	1	5460.0, 5717.0, 5658.0, 5321.0, 5573.0, 5424.0, 5441.0, 5634.0, 5343.0, 5723.0, 5663.0, 5413.0, 5322.0, 5284.0, 5618.0, 5656.0, 5653.0, 5497.0, 5459.0, 5332.0, 5391.0, 5344.0, 5679.0, 5482.0, 5454.0, 5642.0, 5505.0, 5467.0, 5304.0, 5381.0, 5616.0, 5402.0, 5428.0, 5272.0, 5350.0, 5689.0, 5415.0, 5251.0, 5511.0, 5442.0, 5633.0, 5327.0, 5532.0, 5543.0, 5354.0, 5252.0, 5414.0, 5369.0, 5301.0, 5540.0, 5630.0, 5654.0, 5583.0, 5418.0, 5437.0, 5581.0, 5665.0, 5542.0, 5471.0, 5289.0, 5513.0, 5577.0, 5544.0, 5269.0, 5554.0, 5262.0, 5366.0, 5494.0, 5266.0, 5498.0, 5439.0, 5648.0, 5564.0, 5425.0, 5324.0, 5690.0, 5292.0, 5328.0, 5594.0, 5320.0, 5333.0, 5587.0, 5533.0, 5591.0, 5330.0, 5593.0, 5519.0, 5383.0, 5546.0, 5348.0, 5685.0, 5489.0, 5411.0, 5571.0, 5698.0, 5293.0, 5445.0, 5323.0, 5545.0, 5270.0 (number of hits: 7)
6	5270	9	1	333	1	5275.0, 5657.0, 5679.0, 5321.0, 5513.0, 5538.0, 5544.0, 5643.0, 5647.0, 5322.0, 5542.0, 5436.0, 5552.0, 5712.0, 5462.0, 5619.0, 5360.0, 5317.0, 5584.0, 5512.0, 5530.0, 5499.0, 5567.0, 5531.0, 5320.0, 5708.0, 5480.0, 5652.0, 5573.0, 5719.0, 5470.0, 5461.0, 5527.0, 5540.0, 5410.0, 5592.0, 5699.0, 5577.0, 5409.0, 5501.0,

						5407.0, 5506.0, 5692.0, 5471.0, 5610.0, 5487.0, 5602.0, 5579.0, 5611.0, 5706.0, 5270.0, 5721.0, 5394.0, 5286.0, 5606.0, 5626.0, 5472.0, 5363.0, 5294.0, 5672.0, 5523.0, 5594.0, 5464.0, 5675.0, 5474.0, 5478.0, 5710.0, 5428.0, 5663.0, 5548.0, 5490.0, 5724.0, 5264.0, 5313.0, 5387.0, 5391.0, 5649.0, 5601.0, 5276.0, 5662.0, 5571.0, 5335.0, 5568.0, 5326.0, 5440.0, 5595.0, 5511.0, 5402.0, 5521.0, 5456.0, 5705.0, 5496.0, 5593.0, 5342.0, 5588.0, 5452.0, 5686.0, 5546.0, 5418.0, 5433.0 (number of hits: 5)
7	5270	9	1	333	1	5696.0, 5477.0, 5292.0, 5324.0, 5278.0, 5716.0, 5474.0, 5597.0, 5306.0, 5392.0, 5387.0, 5547.0, 5345.0, 5636.0, 5349.0, 5483.0, 5645.0, 5681.0, 5273.0, 5543.0, 5520.0, 5639.0, 5618.0, 5357.0, 5708.0, 5652.0, 5567.0, 5284.0, 5382.0, 5351.0, 5624.0, 5488.0, 5677.0, 5571.0, 5660.0, 5485.0, 5664.0, 5514.0, 5492.0, 5598.0, 5717.0, 5460.0, 5482.0, 5542.0, 5394.0, 5706.0, 5328.0, 5545.0, 5604.0, 5371.0, 5548.0, 5595.0, 5647.0, 5623.0, 5330.0, 5340.0, 5321.0, 5268.0, 5331.0, 5389.0, 5377.0, 5560.0, 5322.0, 5638.0, 5669.0, 5354.0, 5448.0, 5493.0, 5421.0, 5276.0, 5420.0, 5431.0, 5336.0, 5491.0, 5334.0, 5592.0, 5518.0, 5711.0, 5600.0, 5388.0, 5373.0, 5666.0, 5596.0, 5363.0, 5427.0, 5367.0, 5499.0, 5463.0, 5552.0, 5490.0, 5551.0, 5290.0, 5408.0, 5380.0, 5684.0, 5398.0, 5454.0, 5255.0, 5298.0, 5687.0 (number of hits: 6)
8	5270	9	1	333	1	5622.0, 5519.0, 5444.0, 5652.0, 5677.0, 5319.0, 5314.0, 5579.0, 5386.0, 5359.0, 5575.0, 5401.0, 5343.0, 5257.0, 5432.0, 5645.0, 5703.0, 5494.0, 5708.0, 5433.0, 5675.0, 5690.0, 5352.0, 5467.0, 5366.0, 5457.0, 5604.0, 5310.0, 5336.0, 5353.0, 5539.0, 5627.0, 5260.0, 5499.0, 5639.0, 5718.0, 5316.0, 5269.0, 5697.0, 5654.0, 5385.0, 5496.0, 5330.0, 5657.0, 5518.0, 5256.0, 5564.0, 5497.0, 5655.0, 5419.0, 5365.0, 5423.0, 5440.0, 5594.0, 5474.0, 5380.0, 5251.0, 5613.0, 5624.0, 5556.0, 5418.0, 5688.0, 5516.0, 5568.0, 5483.0, 5510.0, 5673.0, 5605.0, 5259.0, 5368.0, 5471.0, 5544.0, 5290.0, 5411.0, 5660.0, 5479.0, 5618.0, 5572.0, 5653.0, 5406.0, 5466.0, 5630.0, 5625.0, 5370.0, 5536.0, 5326.0, 5530.0, 5570.0, 5461.0, 5323.0, 5584.0, 5674.0, 5348.0, 5636.0, 5258.0, 5265.0, 5476.0, 5462.0, 5382.0, 5482.0 (number of hits: 7)
9	5270	9	1	333	1	5297.0, 5633.0, 5449.0, 5478.0, 5621.0, 5358.0, 5493.0, 5473.0, 5485.0, 5430.0, 5252.0, 5667.0, 5522.0, 5289.0, 5451.0, 5693.0, 5641.0, 5408.0, 5598.0, 5552.0,

						5634.0, 5461.0, 5700.0, 5717.0, 5585.0, 5697.0, 5480.0, 5333.0, 5588.0, 5323.0, 5691.0, 5704.0, 5428.0, 5421.0, 5458.0, 5302.0, 5337.0, 5532.0, 5573.0, 5689.0, 5456.0, 5336.0, 5482.0, 5686.0, 5338.0, 5287.0, 5645.0, 5293.0, 5320.0, 5648.0, 5589.0, 5359.0, 5439.0, 5414.0, 5530.0, 5362.0, 5499.0, 5405.0, 5582.0, 5272.0, 5579.0, 5647.0, 5386.0, 5423.0, 5432.0, 5463.0, 5536.0, 5549.0, 5481.0, 5390.0, 5271.0, 5544.0, 5565.0, 5696.0, 5683.0, 5586.0, 5372.0, 5673.0, 5505.0, 5707.0, 5649.0, 5346.0, 5431.0, 5620.0, 5527.0, 5281.0, 5564.0, 5525.0, 5261.0, 5720.0, 5459.0, 5268.0, 5550.0, 5688.0, 5475.0, 5319.0, 5403.0, 5335.0, 5682.0, 5429.0 (number of hits: 7)
10	5270	9	1	333	1	5525.0, 5670.0, 5559.0, 5319.0, 5574.0, 5650.0, 5326.0, 5446.0, 5681.0, 5689.0, 5300.0, 5579.0, 5459.0, 5637.0, 5476.0, 5314.0, 5587.0, 5572.0, 5444.0, 5382.0, 5669.0, 5417.0, 5287.0, 5308.0, 5472.0, 5475.0, 5379.0, 5567.0, 5534.0, 5496.0, 5499.0, 5378.0, 5428.0, 5676.0, 5321.0, 5400.0, 5647.0, 5312.0, 5345.0, 5429.0, 5433.0, 5488.0, 5405.0, 5402.0, 5643.0, 5716.0, 5642.0, 5449.0, 5684.0, 5554.0, 5588.0, 5342.0, 5511.0, 5582.0, 5617.0, 5532.0, 5491.0, 5483.0, 5616.0, 5698.0, 5414.0, 5415.0, 5478.0, 5576.0, 5640.0, 5687.0, 5423.0, 5533.0, 5288.0, 5482.0, 5460.0, 5477.0, 5360.0, 5468.0, 5515.0, 5480.0, 5544.0, 5259.0, 5707.0, 5268.0, 5677.0, 5420.0, 5392.0, 5421.0, 5408.0, 5660.0, 5267.0, 5584.0, 5461.0, 5455.0, 5263.0, 5474.0, 5703.0, 5613.0, 5338.0, 5467.0, 5322.0, 5333.0, 5431.0, 5295.0 (number of hits: 5)
11	5250	9	1	333	1	5341.0, 5441.0, 5267.0, 5516.0, 5405.0, 5342.0, 5465.0, 5470.0, 5381.0, 5309.0, 5515.0, 5689.0, 5696.0, 5315.0, 5290.0, 5483.0, 5346.0, 5641.0, 5273.0, 5398.0, 5426.0, 5527.0, 5549.0, 5456.0, 5252.0, 5419.0, 5548.0, 5324.0, 5578.0, 5674.0, 5718.0, 5561.0, 5664.0, 5509.0, 5605.0, 5397.0, 5282.0, 5629.0, 5261.0, 5587.0, 5486.0, 5607.0, 5651.0, 5636.0, 5300.0, 5453.0, 5389.0, 5355.0, 5533.0, 5620.0, 5435.0, 5688.0, 5420.0, 5621.0, 5319.0, 5553.0, 5672.0, 5679.0, 5317.0, 5598.0, 5297.0, 5665.0, 5701.0, 5625.0, 5482.0, 5656.0, 5565.0, 5683.0, 5306.0, 5525.0, 5692.0, 5663.0, 5477.0, 5601.0, 5594.0, 5489.0, 5574.0, 5434.0, 5602.0, 5349.0, 5623.0, 5519.0, 5374.0, 5617.0, 5699.0, 5690.0, 5503.0, 5386.0, 5380.0, 5291.0, 5633.0, 5512.0, 5343.0, 5687.0, 5535.0, 5256.0, 5370.0, 5487.0, 5705.0, 5289.0 (number of hits: 4)

12	5250	9	1	333	1	5531.0, 5605.0, 5645.0, 5602.0, 5695.0, 5463.0, 5709.0, 5446.0, 5462.0, 5269.0, 5507.0, 5473.0, 5544.0, 5721.0, 5329.0, 5703.0, 5296.0, 5487.0, 5619.0, 5398.0, 5391.0, 5417.0, 5465.0, 5626.0, 5701.0, 5648.0, 5702.0, 5551.0, 5686.0, 5515.0, 5654.0, 5323.0, 5254.0, 5315.0, 5360.0, 5529.0, 5577.0, 5374.0, 5569.0, 5558.0, 5270.0, 5593.0, 5670.0, 5639.0, 5651.0, 5260.0, 5581.0, 5541.0, 5292.0, 5297.0, 5537.0, 5305.0, 5342.0, 5552.0, 5409.0, 5497.0, 5663.0, 5546.0, 5617.0, 5588.0, 5644.0, 5364.0, 5669.0, 5433.0, 5696.0, 5647.0, 5407.0, 5522.0, 5436.0, 5550.0, 5700.0, 5538.0, 5532.0, 5723.0, 5377.0, 5534.0, 5380.0, 5419.0, 5587.0, 5416.0, 5600.0, 5460.0, 5594.0, 5614.0, 5506.0, 5653.0, 5319.0, 5503.0, 5275.0, 5548.0, 5454.0, 5388.0, 5643.0, 5511.0, 5294.0, 5353.0, 5496.0, 5280.0, 5498.0, 5690.0 (number of hits: 2)
13	5250	9	1	333	1	5638.0, 5700.0, 5486.0, 5296.0, 5413.0, 5500.0, 5438.0, 5578.0, 5693.0, 5521.0, 5327.0, 5620.0, 5497.0, 5480.0, 5691.0, 5373.0, 5443.0, 5267.0, 5552.0, 5422.0, 5718.0, 5399.0, 5506.0, 5588.0, 5354.0, 5708.0, 5316.0, 5347.0, 5520.0, 5359.0, 5647.0, 5335.0, 5367.0, 5573.0, 5456.0, 5611.0, 5404.0, 5442.0, 5559.0, 5292.0, 5426.0, 5377.0, 5448.0, 5615.0, 5687.0, 5665.0, 5252.0, 5315.0, 5440.0, 5362.0, 5558.0, 5640.0, 5491.0, 5344.0, 5664.0, 5434.0, 5495.0, 5628.0, 5337.0, 5595.0, 5410.0, 5393.0, 5724.0, 5433.0, 5473.0, 5577.0, 5261.0, 5490.0, 5287.0, 5435.0, 5401.0, 5467.0, 5517.0, 5548.0, 5547.0, 5484.0, 5499.0, 5649.0, 5356.0, 5602.0, 5276.0, 5637.0, 5458.0, 5539.0, 5251.0, 5257.0, 5690.0, 5309.0, 5580.0, 5294.0, 5406.0, 5308.0, 5512.0, 5270.0, 5569.0, 5600.0, 5487.0, 5678.0, 5322.0, 5432.0 (number of hits: 5)
14	5250	9	1	333	1	5622.0, 5296.0, 5279.0, 5602.0, 5651.0, 5724.0, 5301.0, 5299.0, 5694.0, 5630.0, 5454.0, 5403.0, 5283.0, 5306.0, 5449.0, 5577.0, 5452.0, 5295.0, 5346.0, 5521.0, 5710.0, 5688.0, 5317.0, 5697.0, 5433.0, 5563.0, 5467.0, 5464.0, 5409.0, 5362.0, 5545.0, 5575.0, 5588.0, 5507.0, 5339.0, 5391.0, 5606.0, 5610.0, 5363.0, 5601.0, 5699.0, 5341.0, 5502.0, 5535.0, 5635.0, 5525.0, 5422.0, 5351.0, 5568.0, 5465.0, 5434.0, 5664.0, 5558.0, 5530.0, 5307.0, 5538.0, 5344.0, 5267.0, 5692.0, 5495.0, 5421.0, 5367.0, 5470.0, 5396.0, 5450.0, 5708.0, 5384.0, 5286.0, 5340.0, 5355.0, 5592.0, 5695.0, 5382.0, 5491.0, 5500.0, 5584.0, 5407.0, 5504.0, 5493.0, 5343.0, 5345.0, 5430.0, 5599.0, 5721.0, 5460.0,

						5406.0, 5554.0, 5432.0, 5603.0, 5253.0, 5312.0, 5292.0, 5689.0, 5451.0, 5311.0, 5323.0, 5548.0, 5647.0, 5376.0, 5468.0 (number of hits: 2)
15	5250	9	1	333	1	5543.0, 5499.0, 5665.0, 5627.0, 5252.0, 5703.0, 5435.0, 5488.0, 5529.0, 5372.0, 5473.0, 5654.0, 5692.0, 5537.0, 5688.0, 5596.0, 5483.0, 5496.0, 5723.0, 5305.0, 5527.0, 5611.0, 5392.0, 5504.0, 5562.0, 5360.0, 5622.0, 5450.0, 5548.0, 5394.0, 5293.0, 5390.0, 5431.0, 5664.0, 5652.0, 5340.0, 5486.0, 5361.0, 5335.0, 5517.0, 5498.0, 5437.0, 5448.0, 5351.0, 5551.0, 5693.0, 5467.0, 5382.0, 5268.0, 5582.0, 5273.0, 5487.0, 5415.0, 5571.0, 5271.0, 5397.0, 5313.0, 5631.0, 5523.0, 5500.0, 5423.0, 5416.0, 5701.0, 5453.0, 5466.0, 5465.0, 5681.0, 5719.0, 5262.0, 5267.0, 5625.0, 5422.0, 5616.0, 5396.0, 5647.0, 5696.0, 5331.0, 5641.0, 5393.0, 5644.0, 5299.0, 5591.0, 5491.0, 5539.0, 5325.0, 5269.0, 5472.0, 5566.0, 5471.0, 5470.0, 5344.0, 5531.0, 5588.0, 5366.0, 5552.0, 5463.0, 5307.0, 5281.0, 5477.0, 5699.0 (number of hits: 3)
16	5250	9	1	333	1	5402.0, 5682.0, 5679.0, 5449.0, 5425.0, 5549.0, 5634.0, 5520.0, 5461.0, 5505.0, 5398.0, 5336.0, 5357.0, 5375.0, 5444.0, 5672.0, 5445.0, 5719.0, 5335.0, 5356.0, 5334.0, 5637.0, 5611.0, 5575.0, 5614.0, 5639.0, 5663.0, 5661.0, 5467.0, 5390.0, 5391.0, 5697.0, 5669.0, 5610.0, 5324.0, 5723.0, 5519.0, 5712.0, 5475.0, 5641.0, 5619.0, 5647.0, 5351.0, 5695.0, 5376.0, 5270.0, 5442.0, 5606.0, 5470.0, 5588.0, 5579.0, 5617.0, 5311.0, 5554.0, 5587.0, 5421.0, 5448.0, 5430.0, 5327.0, 5571.0, 5339.0, 5366.0, 5532.0, 5257.0, 5364.0, 5493.0, 5618.0, 5325.0, 5420.0, 5401.0, 5568.0, 5479.0, 5355.0, 5408.0, 5481.0, 5683.0, 5279.0, 5443.0, 5367.0, 5582.0, 5365.0, 5477.0, 5303.0, 5363.0, 5627.0, 5552.0, 5312.0, 5621.0, 5605.0, 5383.0, 5702.0, 5434.0, 5342.0, 5509.0, 5337.0, 5372.0, 5615.0, 5315.0, 5652.0, 5715.0 (number of hits: 1)
17	5250	9	1	333	1	5545.0, 5678.0, 5560.0, 5377.0, 5477.0, 5592.0, 5440.0, 5295.0, 5292.0, 5541.0, 5312.0, 5667.0, 5500.0, 5449.0, 5551.0, 5659.0, 5352.0, 5428.0, 5458.0, 5627.0, 5529.0, 5284.0, 5258.0, 5364.0, 5367.0, 5439.0, 5715.0, 5656.0, 5701.0, 5436.0, 5263.0, 5644.0, 5396.0, 5407.0, 5313.0, 5466.0, 5315.0, 5402.0, 5282.0, 5625.0, 5469.0, 5528.0, 5310.0, 5651.0, 5501.0, 5513.0, 5672.0, 5414.0, 5281.0, 5489.0, 5617.0, 5446.0, 5275.0, 5266.0, 5514.0, 5325.0, 5308.0, 5353.0, 5700.0, 5351.0, 5623.0, 5335.0, 5470.0, 5539.0, 5640.0,

						5607.0, 5397.0, 5461.0, 5459.0, 5465.0, 5385.0, 5565.0, 5381.0, 5638.0, 5571.0, 5285.0, 5311.0, 5569.0, 5473.0, 5366.0, 5483.0, 5371.0, 5252.0, 5410.0, 5272.0, 5574.0, 5664.0, 5639.0, 5611.0, 5532.0, 5421.0, 5615.0, 5339.0, 5260.0, 5547.0, 5460.0, 5378.0, 5543.0, 5561.0, 5632.0 (number of hits: 5)
18	5250	9	1	333	1	5388.0, 5306.0, 5643.0, 5683.0, 5658.0, 5524.0, 5267.0, 5268.0, 5597.0, 5472.0, 5568.0, 5632.0, 5476.0, 5362.0, 5299.0, 5531.0, 5492.0, 5311.0, 5403.0, 5434.0, 5699.0, 5422.0, 5570.0, 5371.0, 5335.0, 5675.0, 5514.0, 5648.0, 5334.0, 5655.0, 5295.0, 5705.0, 5700.0, 5681.0, 5361.0, 5310.0, 5326.0, 5552.0, 5641.0, 5325.0, 5517.0, 5542.0, 5640.0, 5333.0, 5540.0, 5544.0, 5341.0, 5708.0, 5266.0, 5285.0, 5364.0, 5501.0, 5386.0, 5255.0, 5347.0, 5717.0, 5471.0, 5373.0, 5670.0, 5481.0, 5419.0, 5305.0, 5674.0, 5661.0, 5668.0, 5257.0, 5446.0, 5599.0, 5549.0, 5467.0, 5308.0, 5416.0, 5560.0, 5274.0, 5262.0, 5383.0, 5452.0, 5429.0, 5322.0, 5260.0, 5566.0, 5423.0, 5293.0, 5441.0, 5576.0, 5718.0, 5324.0, 5288.0, 5600.0, 5411.0, 5456.0, 5575.0, 5405.0, 5307.0, 5530.0, 5709.0, 5660.0, 5338.0, 5375.0, 5450.0 (number of hits: 6)
19	5250	9	1	333	1	5586.0, 5543.0, 5283.0, 5585.0, 5472.0, 5577.0, 5375.0, 5368.0, 5587.0, 5537.0, 5381.0, 5304.0, 5622.0, 5620.0, 5505.0, 5310.0, 5700.0, 5406.0, 5270.0, 5311.0, 5382.0, 5356.0, 5559.0, 5718.0, 5429.0, 5521.0, 5436.0, 5512.0, 5496.0, 5350.0, 5502.0, 5306.0, 5713.0, 5482.0, 5423.0, 5308.0, 5693.0, 5421.0, 5568.0, 5315.0, 5531.0, 5518.0, 5468.0, 5431.0, 5711.0, 5499.0, 5464.0, 5595.0, 5498.0, 5327.0, 5553.0, 5438.0, 5365.0, 5580.0, 5460.0, 5363.0, 5305.0, 5699.0, 5525.0, 5561.0, 5504.0, 5474.0, 5501.0, 5523.0, 5292.0, 5349.0, 5627.0, 5702.0, 5664.0, 5679.0, 5520.0, 5646.0, 5329.0, 5682.0, 5362.0, 5366.0, 5323.0, 5551.0, 5264.0, 5275.0, 5372.0, 5258.0, 5584.0, 5393.0, 5376.0, 5296.0, 5326.0, 5361.0, 5370.0, 5250.0, 5392.0, 5516.0, 5710.0, 5286.0, 5489.0, 5360.0, 5447.0, 5706.0, 5491.0, 5506.0 (number of hits: 3)
20	5250	9	1	333	1	5301.0, 5314.0, 5376.0, 5518.0, 5711.0, 5426.0, 5448.0, 5367.0, 5329.0, 5559.0, 5388.0, 5285.0, 5532.0, 5289.0, 5537.0, 5323.0, 5612.0, 5451.0, 5478.0, 5272.0, 5553.0, 5524.0, 5688.0, 5385.0, 5495.0, 5363.0, 5389.0, 5597.0, 5346.0, 5386.0, 5624.0, 5269.0, 5313.0, 5606.0, 5646.0, 5345.0, 5402.0, 5405.0, 5391.0, 5680.0, 5312.0, 5698.0, 5516.0, 5392.0, 5641.0,

						5697.0, 5258.0, 5709.0, 5508.0, 5502.0, 5427.0, 5368.0, 5599.0, 5425.0, 5579.0, 5433.0, 5529.0, 5707.0, 5630.0, 5403.0, 5287.0, 5256.0, 5549.0, 5390.0, 5315.0, 5670.0, 5519.0, 5466.0, 5379.0, 5695.0, 5674.0, 5548.0, 5280.0, 5667.0, 5536.0, 5266.0, 5660.0, 5498.0, 5652.0, 5576.0, 5582.0, 5364.0, 5710.0, 5375.0, 5650.0, 5696.0, 5458.0, 5436.0, 5260.0, 5372.0, 5636.0, 5455.0, 5261.0, 5464.0, 5476.0, 5511.0, 5658.0, 5719.0, 5479.0, 5305.0 (number of hits: 5)
21	5290	9	1	333	1	5690.0, 5508.0, 5583.0, 5423.0, 5519.0, 5296.0, 5628.0, 5357.0, 5572.0, 5388.0, 5569.0, 5450.0, 5580.0, 5474.0, 5720.0, 5506.0, 5486.0, 5252.0, 5551.0, 5538.0, 5689.0, 5536.0, 5706.0, 5598.0, 5353.0, 5437.0, 5416.0, 5271.0, 5374.0, 5651.0, 5447.0, 5619.0, 5707.0, 5524.0, 5319.0, 5300.0, 5652.0, 5265.0, 5347.0, 5476.0, 5605.0, 5464.0, 5484.0, 5669.0, 5267.0, 5570.0, 5354.0, 5341.0, 5624.0, 5259.0, 5644.0, 5483.0, 5601.0, 5491.0, 5566.0, 5366.0, 5675.0, 5324.0, 5295.0, 5368.0, 5567.0, 5582.0, 5674.0, 5262.0, 5511.0, 5672.0, 5724.0, 5592.0, 5407.0, 5272.0, 5291.0, 5303.0, 5475.0, 5360.0, 5499.0, 5311.0, 5465.0, 5308.0, 5546.0, 5650.0, 5342.0, 5364.0, 5290.0, 5330.0, 5256.0, 5440.0, 5430.0, 5327.0, 5340.0, 5493.0, 5253.0, 5717.0, 5665.0, 5331.0, 5648.0, 5507.0, 5358.0, 5425.0, 5382.0, 5289.0 (number of hits: 8)
22	5290	9	1	333	1	5481.0, 5290.0, 5508.0, 5712.0, 5456.0, 5305.0, 5524.0, 5678.0, 5295.0, 5694.0, 5375.0, 5428.0, 5462.0, 5586.0, 5470.0, 5531.0, 5297.0, 5723.0, 5709.0, 5607.0, 5351.0, 5357.0, 5549.0, 5530.0, 5389.0, 5302.0, 5657.0, 5326.0, 5513.0, 5432.0, 5250.0, 5509.0, 5300.0, 5298.0, 5499.0, 5511.0, 5571.0, 5361.0, 5507.0, 5334.0, 5670.0, 5434.0, 5514.0, 5491.0, 5722.0, 5392.0, 5476.0, 5667.0, 5453.0, 5523.0, 5705.0, 5558.0, 5363.0, 5346.0, 5449.0, 5258.0, 5253.0, 5437.0, 5656.0, 5339.0, 5327.0, 5313.0, 5381.0, 5660.0, 5553.0, 5605.0, 5671.0, 5713.0, 5418.0, 5257.0, 5261.0, 5663.0, 5703.0, 5510.0, 5662.0, 5721.0, 5546.0, 5407.0, 5323.0, 5502.0, 5542.0, 5430.0, 5555.0, 5385.0, 5617.0, 5714.0, 5317.0, 5627.0, 5426.0, 5356.0, 5598.0, 5256.0, 5715.0, 5325.0, 5527.0, 5420.0, 5687.0, 5417.0, 5719.0, 5578.0 (number of hits: 7)
23	5290	9	1	333	1	5485.0, 5472.0, 5522.0, 5528.0, 5724.0, 5611.0, 5546.0, 5713.0, 5356.0, 5699.0, 5599.0, 5549.0, 5715.0, 5542.0, 5389.0, 5471.0, 5676.0, 5309.0, 5370.0, 5494.0, 5320.0, 5718.0, 5490.0, 5413.0, 5258.0,

						5483.0, 5399.0, 5721.0, 5318.0, 5479.0, 5436.0, 5256.0, 5518.0, 5630.0, 5519.0, 5362.0, 5604.0, 5714.0, 5601.0, 5388.0, 5590.0, 5392.0, 5661.0, 5272.0, 5653.0, 5543.0, 5390.0, 5261.0, 5375.0, 5316.0, 5636.0, 5305.0, 5283.0, 5279.0, 5600.0, 5707.0, 5280.0, 5642.0, 5557.0, 5476.0, 5629.0, 5613.0, 5685.0, 5327.0, 5618.0, 5649.0, 5312.0, 5385.0, 5656.0, 5681.0, 5646.0, 5536.0, 5654.0, 5269.0, 5512.0, 5405.0, 5595.0, 5481.0, 5432.0, 5711.0, 5623.0, 5352.0, 5547.0, 5348.0, 5657.0, 5640.0, 5409.0, 5666.0, 5568.0, 5570.0, 5535.0, 5452.0, 5427.0, 5255.0, 5586.0, 5276.0, 5717.0, 5521.0, 5488.0, 5306.0 (number of hits: 7)
24	5290	9	1	333	1	5293.0, 5300.0, 5534.0, 5269.0, 5644.0, 5474.0, 5341.0, 5638.0, 5509.0, 5547.0, 5462.0, 5687.0, 5276.0, 5381.0, 5627.0, 5354.0, 5304.0, 5702.0, 5674.0, 5477.0, 5308.0, 5660.0, 5426.0, 5574.0, 5642.0, 5454.0, 5614.0, 5438.0, 5584.0, 5279.0, 5331.0, 5518.0, 5594.0, 5709.0, 5485.0, 5686.0, 5496.0, 5481.0, 5375.0, 5516.0, 5507.0, 5511.0, 5376.0, 5619.0, 5255.0, 5330.0, 5635.0, 5522.0, 5601.0, 5717.0, 5624.0, 5510.0, 5440.0, 5653.0, 5586.0, 5703.0, 5413.0, 5323.0, 5415.0, 5706.0, 5497.0, 5643.0, 5501.0, 5414.0, 5569.0, 5617.0, 5258.0, 5340.0, 5650.0, 5544.0, 5291.0, 5529.0, 5538.0, 5688.0, 5429.0, 5466.0, 5696.0, 5369.0, 5322.0, 5636.0, 5252.0, 5592.0, 5539.0, 5704.0, 5335.0, 5290.0, 5491.0, 5675.0, 5515.0, 5267.0, 5561.0, 5321.0, 5591.0, 5351.0, 5618.0, 5621.0, 5387.0, 5571.0, 5527.0, 5310.0 (number of hits: 7)
25	5290	9	1	333	1	5539.0, 5430.0, 5595.0, 5360.0, 5363.0, 5530.0, 5525.0, 5453.0, 5401.0, 5574.0, 5256.0, 5556.0, 5418.0, 5306.0, 5278.0, 5634.0, 5527.0, 5581.0, 5275.0, 5502.0, 5640.0, 5475.0, 5264.0, 5416.0, 5472.0, 5712.0, 5522.0, 5509.0, 5420.0, 5379.0, 5560.0, 5339.0, 5294.0, 5358.0, 5267.0, 5658.0, 5372.0, 5484.0, 5452.0, 5448.0, 5630.0, 5651.0, 5395.0, 5681.0, 5643.0, 5547.0, 5347.0, 5389.0, 5476.0, 5478.0, 5696.0, 5544.0, 5596.0, 5404.0, 5636.0, 5517.0, 5684.0, 5266.0, 5649.0, 5311.0, 5670.0, 5588.0, 5514.0, 5391.0, 5664.0, 5316.0, 5503.0, 5383.0, 5274.0, 5280.0, 5690.0, 5465.0, 5424.0, 5482.0, 5454.0, 5407.0, 5462.0, 5512.0, 5708.0, 5304.0, 5279.0, 5399.0, 5583.0, 5298.0, 5506.0, 5554.0, 5550.0, 5411.0, 5629.0, 5460.0, 5605.0, 5655.0, 5535.0, 5568.0, 5288.0, 5699.0, 5283.0, 5647.0, 5385.0, 5402.0 (number of hits: 11)
26	5290	9	1	333	1	5547.0, 5648.0, 5614.0, 5441.0, 5668.0,

						5432.0, 5406.0, 5464.0, 5420.0, 5702.0, 5701.0, 5669.0, 5512.0, 5572.0, 5587.0, 5585.0, 5429.0, 5310.0, 5316.0, 5610.0, 5282.0, 5509.0, 5283.0, 5500.0, 5337.0, 5372.0, 5504.0, 5312.0, 5336.0, 5710.0, 5643.0, 5317.0, 5300.0, 5407.0, 5680.0, 5537.0, 5498.0, 5559.0, 5319.0, 5380.0, 5462.0, 5396.0, 5495.0, 5459.0, 5373.0, 5401.0, 5535.0, 5288.0, 5326.0, 5488.0, 5450.0, 5409.0, 5548.0, 5263.0, 5289.0, 5616.0, 5617.0, 5590.0, 5708.0, 5652.0, 5458.0, 5677.0, 5723.0, 5366.0, 5583.0, 5274.0, 5515.0, 5357.0, 5645.0, 5273.0, 5528.0, 5538.0, 5485.0, 5430.0, 5473.0, 5544.0, 5296.0, 5615.0, 5497.0, 5471.0, 5483.0, 5470.0, 5687.0, 5388.0, 5527.0, 5556.0, 5311.0, 5674.0, 5360.0, 5395.0, 5519.0, 5467.0, 5706.0, 5253.0, 5294.0, 5382.0, 5619.0, 5295.0, 5491.0, 5716.0 (number of hits: 10)
27	5290	9	1	333	1	5434.0, 5357.0, 5461.0, 5349.0, 5648.0, 5602.0, 5651.0, 5532.0, 5296.0, 5351.0, 5557.0, 5439.0, 5474.0, 5617.0, 5527.0, 5505.0, 5275.0, 5363.0, 5563.0, 5294.0, 5547.0, 5589.0, 5266.0, 5259.0, 5413.0, 5485.0, 5697.0, 5578.0, 5342.0, 5432.0, 5252.0, 5704.0, 5719.0, 5306.0, 5444.0, 5639.0, 5350.0, 5256.0, 5647.0, 5696.0, 5656.0, 5681.0, 5663.0, 5538.0, 5521.0, 5419.0, 5311.0, 5550.0, 5269.0, 5678.0, 5472.0, 5320.0, 5322.0, 5257.0, 5333.0, 5542.0, 5383.0, 5525.0, 5295.0, 5585.0, 5332.0, 5394.0, 5443.0, 5307.0, 5591.0, 5529.0, 5710.0, 5575.0, 5469.0, 5344.0, 5566.0, 5318.0, 5669.0, 5488.0, 5721.0, 5658.0, 5400.0, 5503.0, 5475.0, 5595.0, 5610.0, 5280.0, 5473.0, 5465.0, 5481.0, 5655.0, 5496.0, 5376.0, 5621.0, 5402.0, 5330.0, 5470.0, 5399.0, 5694.0, 5604.0, 5511.0, 5437.0, 5288.0, 5395.0, 5441.0 (number of hits: 8)
28	5290	9	1	333	1	5409.0, 5260.0, 5385.0, 5305.0, 5651.0, 5282.0, 5259.0, 5459.0, 5703.0, 5587.0, 5418.0, 5348.0, 5509.0, 5500.0, 5354.0, 5572.0, 5464.0, 5599.0, 5496.0, 5591.0, 5365.0, 5519.0, 5280.0, 5297.0, 5390.0, 5577.0, 5692.0, 5491.0, 5304.0, 5501.0, 5440.0, 5647.0, 5414.0, 5643.0, 5397.0, 5324.0, 5328.0, 5446.0, 5460.0, 5693.0, 5296.0, 5716.0, 5521.0, 5684.0, 5531.0, 5344.0, 5317.0, 5425.0, 5558.0, 5366.0, 5257.0, 5493.0, 5407.0, 5392.0, 5592.0, 5411.0, 5369.0, 5302.0, 5339.0, 5316.0, 5450.0, 5416.0, 5694.0, 5420.0, 5338.0, 5417.0, 5708.0, 5520.0, 5620.0, 5250.0, 5635.0, 5676.0, 5355.0, 5434.0, 5627.0, 5278.0, 5537.0, 5527.0, 5383.0, 5539.0, 5711.0, 5543.0, 5362.0, 5524.0, 5616.0, 5621.0, 5252.0, 5376.0, 5595.0, 5436.0,

						5458.0, 5722.0, 5388.0, 5298.0, 5622.0, 5370.0, 5618.0, 5261.0, 5429.0, 5690.0 (number of hits: 9)
29	5290	9	1	333	1	5640.0, 5654.0, 5630.0, 5485.0, 5397.0, 5409.0, 5595.0, 5386.0, 5259.0, 5276.0, 5482.0, 5345.0, 5714.0, 5529.0, 5400.0, 5713.0, 5366.0, 5647.0, 5661.0, 5710.0, 5498.0, 5537.0, 5373.0, 5629.0, 5590.0, 5631.0, 5424.0, 5569.0, 5408.0, 5567.0, 5608.0, 5539.0, 5451.0, 5564.0, 5686.0, 5662.0, 5704.0, 5683.0, 5320.0, 5706.0, 5612.0, 5524.0, 5534.0, 5306.0, 5646.0, 5599.0, 5297.0, 5515.0, 5558.0, 5462.0, 5682.0, 5621.0, 5457.0, 5442.0, 5721.0, 5637.0, 5425.0, 5573.0, 5653.0, 5676.0, 5341.0, 5587.0, 5669.0, 5478.0, 5658.0, 5256.0, 5321.0, 5528.0, 5291.0, 5403.0, 5546.0, 5469.0, 5616.0, 5359.0, 5495.0, 5639.0, 5298.0, 5575.0, 5584.0, 5459.0, 5707.0, 5334.0, 5371.0, 5659.0, 5336.0, 5660.0, 5594.0, 5444.0, 5410.0, 5545.0, 5476.0, 5722.0, 5262.0, 5452.0, 5344.0, 5596.0, 5535.0, 5513.0, 5506.0, 5715.0 (number of hits: 5)
30	5290	9	1	333	1	5545.0, 5613.0, 5383.0, 5480.0, 5411.0, 5453.0, 5640.0, 5428.0, 5593.0, 5381.0, 5361.0, 5311.0, 5310.0, 5600.0, 5541.0, 5271.0, 5455.0, 5447.0, 5397.0, 5482.0, 5439.0, 5688.0, 5701.0, 5562.0, 5363.0, 5493.0, 5440.0, 5374.0, 5606.0, 5303.0, 5400.0, 5392.0, 5306.0, 5364.0, 5619.0, 5339.0, 5536.0, 5614.0, 5258.0, 5403.0, 5710.0, 5347.0, 5296.0, 5295.0, 5280.0, 5451.0, 5714.0, 5385.0, 5605.0, 5475.0, 5340.0, 5529.0, 5464.0, 5654.0, 5684.0, 5595.0, 5618.0, 5479.0, 5633.0, 5378.0, 5330.0, 5460.0, 5279.0, 5394.0, 5450.0, 5707.0, 5526.0, 5535.0, 5281.0, 5322.0, 5433.0, 5599.0, 5481.0, 5530.0, 5602.0, 5287.0, 5459.0, 5518.0, 5568.0, 5497.0, 5713.0, 5289.0, 5368.0, 5328.0, 5657.0, 5345.0, 5325.0, 5550.0, 5341.0, 5461.0, 5635.0, 5546.0, 5337.0, 5507.0, 5305.0, 5588.0, 5262.0, 5597.0, 5508.0, 5350.0 (number of hits: 10)

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	86.7 %	60%	Pass
Type 3	30	93.3 %	60%	Pass
Type 4	30	73.3 %	60%	Pass
Aggregate (Type1 to 4)	120	88.325 %	80%	Pass
Type 5	30	100 %	80%	Pass
Type 6	30	93.3 %	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	62	1	858	1
2	5290	68	1	778	1
3	5290	81	1	658	1
4	5290	95	1	558	1
5	5290	59	1	898	1
6	5251	57	1	938	1
7	5251	18	1	3066	1
8	5251	70	1	758	1
9	5251	99	1	538	1
10	5251	78	1	678	1
11	5329	67	1	798	1
12	5329	58	1	918	1
13	5329	83	1	638	1
14	5329	65	1	818	1
15	5329	86	1	618	1
16	5290	31	1	1749	1
17	5290	65	1	819	1
18	5290	70	1	754	1
19	5290	20	1	2674	1
20	5290	48	1	1107	1
21	5251	25	1	2156	1
22	5251	29	1	1827	1
23	5251	29	1	1872	1
24	5251	45	1	1188	1
25	5251	81	1	654	1
26	5329	28	1	1933	1
27	5329	21	1	2595	1
28	5329	25	1	2116	1
29	5329	20	1	2648	1
30	5329	27	1	1987	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	28	1.3	215	1
2	5290	29	4.5	175	1
3	5290	29	4.5	169	1
4	5290	27	4.7	228	1
5	5290	25	1.3	219	1
6	5290	26	2.2	199	1
7	5290	27	5	172	1
8	5290	26	2.2	193	1
9	5290	27	1.4	165	1
10	5290	25	2.2	150	1
11	5251	29	4.9	222	1
12	5251	28	1.7	165	1
13	5251	23	1.5	168	1
14	5251	26	1.3	204	1
15	5251	23	2.4	227	1
16	5251	23	4.2	150	1
17	5251	29	1.5	183	1
18	5251	26	4.6	175	1
19	5251	27	3	174	0
20	5251	28	1	209	1
21	5329	24	4.7	211	0
22	5329	23	5	168	0
23	5329	23	2.1	203	1
24	5329	26	2.3	171	0
25	5329	26	1.2	187	1
26	5329	23	1.2	211	1
27	5329	28	4.9	168	1
28	5329	28	4.5	192	1
29	5329	26	3.7	195	1
30	5329	24	1.3	229	1
Detection Percentage: 86.7 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5290	16	8.9	482	1
2	5290	16	6.9	483	0
3	5290	18	7.6	359	1
4	5290	17	6.3	234	1
5	5290	16	8.6	451	1
6	5290	18	6.1	439	1
7	5290	18	8.5	237	0
8	5290	16	8.8	256	1
9	5290	16	9.6	211	1
10	5290	16	6	483	1
11	5251	17	8	248	1
12	5251	17	8.3	277	1
13	5251	17	9.1	235	1
14	5251	17	9.5	313	1
15	5251	16	6.5	287	1
16	5251	17	8.6	366	1
17	5251	18	9.4	219	1
18	5251	17	9	264	1
19	5251	17	10	229	1
20	5251	17	8.7	289	1
21	5329	18	7.8	452	1
22	5329	18	9.9	417	1
23	5329	18	9.4	351	1
24	5329	18	6.1	344	1
25	5329	16	9.2	348	1
26	5329	17	9.8	365	1
27	5329	18	9.5	223	1
28	5329	16	9.7	479	1
29	5329	18	8	231	1
30	5329	18	8.1	454	1
Detection Percentage: 93.3 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5290	12	17.8	485	1
2	5290	14	15.1	233	0
3	5290	14	14.4	310	1
4	5290	14	16	489	1
5	5290	12	13.8	347	0
6	5290	14	15.6	494	1
7	5290	13	12.5	394	0
8	5290	16	15.9	385	1
9	5290	14	18.5	405	1
10	5290	16	19.2	375	1
11	5251	14	19.8	289	1
12	5251	16	15.5	398	1
13	5251	15	18.4	374	1
14	5251	16	13	382	1
15	5251	14	15.9	450	1
16	5251	12	17.8	350	1
17	5251	15	13.7	203	1
18	5251	12	15.7	364	1
19	5251	15	11.9	200	1
20	5251	15	15.3	461	0
21	5329	16	11.6	342	1
22	5329	13	16	479	1
23	5329	14	19.8	497	1
24	5329	12	15.1	239	1
25	5329	16	17	315	0
26	5329	12	13.8	459	1
27	5329	15	18.8	301	0
28	5329	14	14.3	239	0
29	5329	15	19.8	279	0
30	5329	13	17.3	407	1
Detection Percentage: 73.3 % (>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	5258.0	1
12	5257.6	1
13	5259.2	1
14	5256.4	1
15	5258.0	1
16	5260.0	1
17	5256.0	1
18	5256.8	1
19	5254.0	1
20	5254.8	1
21	5323.2	1
22	5322.8	1
23	5325.2	1
24	5322.8	1
25	5321.6	1
26	5320.8	1
27	5324.0	1
28	5320.8	1
29	5320.8	1
30	5323.6	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	5	93.3	1079		0.744611	
1	3	5	77	1842	1150	0.982498	
2	2	5	93.4	1594		2.186201	
3	2	5	77.3	1621		2.847525	
4	2	5	91.1	1199		3.517692	
5	3	5	88.3	1718	1769	4.12492	
6	2	5	54.2	1128		5.237923	
7	1	5	73.2			6.103642	1
8	2	5	90.4	1448		6.588834	
9	2	5	92.3	1584		7.859134	
10	3	5	76.5	1497	1931	8.503944	
11	3	5	65.8	1960	1847	8.945968	
12	2	5	56.3	1765		9.756518	
13	1	5	71.2			10.945432	
14	1	5	71.4			11.470565	

Bin5 Statistics 2

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	6	84.5	1412		0.674006	
1	3	6	82.2	1875	1066	1.400849	
2	1	6	58.3			1.719652	
3	2	6	86.4	1505		2.43534	
4	2	6	70.3	1394		3.65929	
5	2	6	62.5	1214		4.159603	
6	2	6	59.1	1978		5.047445	
7	3	6	65.5	1359	1696	6.238401	1
8	2	6	60.6	1057		6.805615	
9	2	6	59.7	1950		7.939833	
10	2	6	51.1	1679		8.616932	
11	1	6	61.8			8.908693	
12	2	6	75.1	1359		9.937263	
13	2	6	80.1	1203		10.832111	
14	2	6	71.2	1805		11.410865	

Bin5 Statistics 3

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	15	76.8	1053		0.065614	
1	2	15	87.9	1565		1.497434	
2	2	15	57.4	1306		1.699188	
3	3	15	92.2	1608	1249	2.797682	
4	2	15	65.7	1978		3.897529	
5	2	15	63.2	1955		4.491264	
6	3	15	68.6	1775	1615	5.018729	
7	2	15	94	1895		6.073104	1
8	3	15	69.4	1462	1254	6.836844	
9	1	15	79.6			7.706265	
10	2	15	72.1	1202		8.154993	
11	1	15	99.3			9.326895	
12	2	15	87.3	1012		9.70469	
13	3	15	52.1	1660	1309	11.082345	
14	2	15	99.1	1487		11.650018	

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	82.6	1462	1614	0.038093	
1	3	10	83.3	1968	1576	1.973138	
2	1	10	86.2			3.442631	
3	2	10	67.2	1065		4.14446	
4	2	10	77.1	1621		4.954156	
5	2	10	72.9	1594		6.113765	1
6	2	10	60.4	1618		7.755976	
7	2	10	90.6	1166		8.973693	
8	2	10	71.8	1161		10.269335	
9	2	10	99.7	1968		11.163144	

Bin5 Statistics 5

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	15	65.6	1786		0.734286	1
1	3	15	60.7	1347	1767	1.355907	
2	2	15	76.5	1646		3.255356	
3	2	15	92.3	1898		3.675713	
4	3	15	61.1	1747	1161	5.020073	
5	1	15	81.1			6.807766	
6	1	15	76			7.636807	
7	3	15	81.5	1572	1893	9.496658	
8	2	15	72.6	1232		10.307181	
9	1	15	60.9			11.088332	

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	14	99.3			0.673263	1
1	1	14	68.3			1.324036	
2	2	14	52.4	1249		2.04775	
3	3	14	69.8	1770	1075	2.609382	
4	3	14	99.2	1064	1458	3.600623	
5	2	14	90.6	1303		4.930014	
6	2	14	67	1242		5.367686	
7	3	14	96.6	1213	1138	6.377315	
8	2	14	99.7	1370		7.363154	
9	2	14	58.9	1153		8.294016	
10	2	14	99.2	1809		9.297616	
11	2	14	95.5	1074		10.208657	
12	2	14	82.4	1814		10.704024	
13	2	14	78	1948		11.180563	

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	16	63.4	1812		0.138452	
1	3	16	52.9	1509	1432	1.120617	
2	3	16	64.7	1841	1160	1.431166	
3	2	16	83.8	1417		2.470413	
4	2	16	97.9	1364		2.775614	
5	3	16	66	1395	1155	3.406788	
6	1	16	93.2			4.269366	
7	2	16	64.6	1270		4.577064	
8	1	16	60.8			5.594665	
9	1	16	52.1			5.908597	1
10	2	16	75.4	1456		6.857357	
11	2	16	87.7	1499		7.53983	
12	2	16	68.1	1924		7.829766	
13	3	16	59.6	1252	1504	8.260919	
14	2	16	67.1	1801		9.242792	
15	3	16	94.7	1112	1367	9.7658	
16	1	16	53.7			10.651164	
17	2	16	82	1391		10.981307	
18	3	16	77.2	1124	1490	11.657304	

Bin5 Statistics 8

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	15	64.2	1900	1781	0.591139	
1	1	15	81.3			1.292743	
2	2	15	69.6	1172		2.399639	
3	1	15	77.4			2.917542	
4	1	15	66.5			4.405954	
5	1	15	58.1			4.928055	
6	2	15	54.4	1992		6.221273	1
7	2	15	69.2	1160		7.110684	
8	2	15	71.6	1173		7.589776	
9	2	15	90	1124		8.902453	
10	1	15	69			9.925985	
11	2	15	55.4	1698		10.783875	
12	2	15	60.4	1208		11.755894	

Bin5 Statistics 9

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	14	93	1469		0.522678	1
1	2	14	56.9	1753		0.737549	
2	1	14	94.9			1.612613	
3	3	14	87	1644	1708	2.414251	
4	2	14	80.4	1733		3.214961	
5	1	14	83.8			3.665342	
6	3	14	60.5	1852	1083	4.62049	
7	1	14	81.3			5.020998	
8	3	14	63.6	1321	1782	5.507929	
9	2	14	88	1746		6.52686	
10	2	14	75.1	1183		7.054862	
11	2	14	73.4	1948		7.454562	
12	3	14	60.2	1604	1056	8.501761	
13	2	14	71.8	1169		9.252778	
14	2	14	82.5	1242		9.347819	
15	2	14	77.6	1406		10.641519	
16	1	14	84.3			11.298508	
17	2	14	97	1984		11.955883	

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	63.8	1574	1884	0.25055	
1	1	11	70.8			1.186938	
2	2	11	79.8	1286		1.816901	
3	2	11	58.4	1407		2.173585	
4	3	11	97.4	1760	1968	2.901274	
5	1	11	70.2			4.001162	
6	1	11	88.4			4.805807	
7	2	11	97.1	1999		5.625244	
8	3	11	95	1264	1946	5.783211	1
9	3	11	65.1	1837	1116	7.008024	
10	2	11	77.5	1438		7.317478	
11	1	11	72.5			7.881386	
12	1	11	53.2			8.915049	
13	3	11	93.7	1092	1428	9.436742	
14	3	11	68.7	1504	1094	10.344869	
15	2	11	97.6	1741		11.011135	
16	2	11	62.5	1398		11.712368	

Bin5 Statistics 11

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	15	62.6	1676	1097	0.872329	
1	3	15	80.6	1808	1781	1.50768	
2	2	15	75	1543		2.389195	
3	2	15	52.2	1173		3.830224	
4	3	15	69	1348	1532	4.663358	
5	2	15	94.1	1439		5.626027	1
6	3	15	90	1387	1176	7.234566	
7	3	15	82.3	1984	1487	7.645554	
8	3	15	55.4	1243	1675	8.884072	
9	3	15	92.3	1620	1741	10.316986	
10	1	15	66.5			11.591634	

Bin5 Statistics 12

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	14	96.3	1174	1928	0.68334	
1	2	14	62.2	1203		0.927548	
2	1	14	85.9			2.090876	
3	1	14	70.6			2.91719	
4	1	14	70.9			3.881391	
5	2	14	67.4	1663		4.777384	
6	1	14	56.7			5.707176	1
7	2	14	53.4	1348		6.642936	
8	2	14	75.2	1124		7.990385	
9	3	14	54.5	1527	1652	8.714409	
10	3	14	75.9	1918	1880	9.348357	
11	2	14	77.4	1321		10.968382	
12	1	14	51.9			11.736269	

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	73.4	1582		0.388046	
1	2	18	87.2	1466		1.166943	
2	1	18	78.4			1.54168	
3	2	18	80.9	1998		1.889355	
4	2	18	61.1	1560		2.971646	
5	2	18	93.8	1826		3.046419	
6	1	18	65			4.009583	
7	1	18	95.5			4.491623	
8	3	18	79.5	1451	1229	5.328569	
9	2	18	82.5	1826		5.530745	
10	2	18	95.7	1178		6.01724	1
11	1	18	65.5			6.981883	
12	2	18	87.8	1299		7.264931	
13	3	18	68	1377	1285	7.891931	
14	2	18	89.5	1367		8.402693	
15	1	18	99.9			9.587004	
16	2	18	71.5	1096		10.042838	
17	2	18	93.8	1621		10.388387	
18	3	18	86	1359	1646	11.15481	
19	2	18	88.7	1712		11.841077	

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	11	71.3			0.453541	
1	3	11	84	1715	1140	1.258551	
2	3	11	95.6	1717	1591	1.927704	
3	3	11	52.9	1777	1549	3.259542	
4	2	11	82	1875		3.854	
5	3	11	90.1	1984	1173	5.088782	
6	2	11	53.5	1796		5.921396	
7	1	11	86.5			6.440009	1
8	3	11	97.9	1716	1358	7.681818	
9	3	11	87.9	1037	1377	8.127487	
10	1	11	62.9			8.578422	
11	3	11	86.8	1820	1769	10.182238	
12	2	11	82.1	1513		10.565078	
13	2	11	65.3	1481		11.953572	

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	15	98.9			0.013145	1
1	2	15	85.7	1388		1.88135	
2	2	15	73.9	1059		3.479259	
3	2	15	98.6	1842		4.110674	
4	3	15	86.3	1077	1112	5.369265	
5	3	15	55	1710	1342	6.896275	
6	3	15	76.4	1855	1210	8.32602	
7	3	15	78.7	1113	1265	8.927302	
8	1	15	72.2			9.699095	
9	3	15	66.3	1697	1224	11.670164	

Bin5 Statistics 16

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	20	65.1	1879		0.284402	1
1	2	20	59.8	1376		1.1897	
2	1	20	62			1.707004	
3	1	20	92.3			2.17282	
4	1	20	93.4			2.909717	
5	2	20	81.8	1430		3.179285	
6	1	20	58			3.907407	
7	2	20	95.8	1988		4.459542	
8	3	20	55.6	1730	1002	5.361042	
9	1	20	54.2			6.129296	
10	1	20	58.2			6.769322	
11	3	20	68.3	1622	1011	6.98	
12	1	20	55.9			7.683483	
13	1	20	62.4			8.210544	
14	3	20	94.9	1923	1929	9.284289	
15	1	20	75.8			9.512713	
16	2	20	62.3	1478		10.269026	
17	2	20	57.4	1047		10.832647	
18	1	20	67.1			11.400352	

Bin5 Statistics 17

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	10	77.3	1731		0.397121	
1	2	10	70.1	1636		1.586917	
2	2	10	79.9	1642		3.832917	
3	3	10	89	1678	1651	4.096692	
4	1	10	59.4			5.764073	1
5	2	10	75.3	1759		7.572121	
6	2	10	92.3	1630		8.663982	
7	1	10	92.5			9.552634	
8	2	10	92.4	1939		11.681786	

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	12	65.2	1391	1855	0.045693	
1	2	12	87.5	1092		1.214917	
2	1	12	97.2			1.708942	
3	3	12	65.2	1216	1550	2.355234	
4	2	12	97.9	1696		3.10642	
5	2	12	98.8	1494		3.493757	
6	3	12	76.7	1911	1753	4.062844	
7	2	12	61.8	1181		4.529562	
8	2	12	65.6	1712		5.224507	
9	2	12	70.8	1478		5.859281	1
10	3	12	51	1422	1445	6.372498	
11	2	12	66.6	1385		7.35021	
12	1	12	55.6			8.092935	
13	3	12	87.7	1404	1274	8.514824	
14	2	12	98.7	1753		8.963994	
15	2	12	99.3	1678		9.926183	
16	3	12	66.9	1535	1744	10.724643	
17	1	12	63.6			11.3354	
18	2	12	90	1248		11.568708	

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	5	96.1	1549		0.409934	
1	2	5	74.4	1509		0.923893	
2	2	5	57.5	1291		1.339843	
3	2	5	83.9	1631		2.067381	
4	2	5	79.7	1907		3.019588	
5	2	5	85	1995		3.579495	
6	3	5	61.8	1273	1992	4.405444	
7	2	5	95.1	1169		4.963002	
8	2	5	58.4	1561		5.964577	
9	3	5	86.8	1379	1139	6.135929	1
10	2	5	89.7	1496		6.84544	
11	2	5	70.6	1167		7.911713	
12	2	5	80	1146		8.093429	
13	3	5	97.6	1484	1597	9.153167	
14	3	5	93.4	1308	1575	9.831424	
15	2	5	80.7	1056		10.14852	
16	2	5	97.9	1182		10.699474	
17	2	5	64.9	1699		11.966082	

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	7	79.8	1254		0.52894	
1	2	7	60.7	1606		0.883917	
2	2	7	88.8	1786		2.115167	
3	3	7	52.8	1381	1687	2.957471	
4	3	7	92.4	1324	1982	3.280723	
5	2	7	91.6	1009		4.146438	
6	2	7	78.3	1654		5.163512	
7	3	7	64.8	1174	1302	6.020163	1
8	2	7	67.3	1252		6.943253	
9	3	7	89.2	1441	1377	7.735017	
10	3	7	94.4	1105	1789	8.399113	
11	1	7	66.9			9.426452	
12	3	7	58	1600	1386	10.067266	
13	3	7	78.8	1866	1320	10.482139	
14	3	7	91.6	1180	1870	11.368917	

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	92.4	1676		0.757979	
1	2	12	95.8	1701		1.381175	
2	2	12	71.7	1457		1.670656	
3	2	12	78	1799		2.528867	
4	1	12	83.3			3.935123	
5	2	12	72	1484		4.382083	
6	2	12	61.7	1813		5.577126	
7	2	12	68.4	1177		5.631817	1
8	1	12	74.7			6.888075	
9	2	12	86	1168		7.490846	
10	2	12	51.1	1627		8.697169	
11	1	12	60.6			9.224568	
12	2	12	94.8	1032		10.155753	
13	1	12	72.7			11.065538	
14	2	12	55.4	1925		11.56753	

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	13	68.9			0.096626	1
1	1	13	57.1			0.878663	
2	2	13	65.7	1173		1.979186	
3	3	13	82.2	1114	1356	2.496252	
4	3	13	59.9	1996	1045	3.584182	
5	2	13	76.6	1590		4.311154	
6	2	13	65.9	1377		4.679566	
7	3	13	54.9	1978	1865	5.701471	
8	3	13	90.8	1026	1676	6.344044	
9	1	13	58.8			7.413794	
10	3	13	79.5	1038	1180	7.537461	
11	2	13	90.1	1800		8.562509	
12	3	13	55.5	1312	1026	9.310717	
13	2	13	72.8	1494		10.230273	
14	2	13	58.5	1430		11.196166	
15	2	13	89.6	1219		11.938225	

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	7	83.5			0.992271	1
1	2	7	67	1241		1.84372	
2	3	7	93.1	1984	1154	2.908881	
3	3	7	55.6	1297	1516	3.85328	
4	3	7	97.5	1988	1527	4.731253	
5	2	7	97.7	1110		5.658353	
6	3	7	90.8	1172	1916	6.548096	
7	2	7	77.1	1420		7.960751	
8	1	7	78.4			8.508608	
9	1	7	91.3			9.909833	
10	3	7	69.1	1623	1858	10.060694	
11	2	7	87.9	1956		11.69501	

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	13	65.9	1631	1547	0.134523	1
1	2	13	63.8	1557		1.314312	
2	2	13	86.1	1687		1.336019	
3	3	13	67.3	1666	1595	2.372918	
4	3	13	90.1	1415	1304	3.241768	
5	2	13	65.4	1585		3.886256	
6	2	13	83.3	1390		4.647164	
7	1	13	98			4.906348	
8	2	13	61.1	1641		5.708194	
9	1	13	71.8			6.237402	
10	2	13	84.4	1943		7.101338	
11	3	13	71.3	1190	1544	7.823431	
12	2	13	50.3	1396		8.023983	
13	1	13	80.7			8.900969	
14	1	13	91.3			9.536728	
15	2	13	64.7	1119		10.184884	
16	2	13	72.3	1670		10.820777	
17	2	13	80.8	1537		11.690543	

Bin5 Statistics 25

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	16	84.2	1374	1769	0.705984	1
1	1	16	78.2			1.181956	
2	2	16	79.1	1624		1.525187	
3	1	16	67.8			2.553674	
4	3	16	91.3	1986	1681	3.739298	
5	1	16	62.6			4.083582	
6	1	16	55			5.180363	
7	3	16	85.3	1403	1375	5.759044	
8	2	16	81.2	1383		6.388999	
9	3	16	54.2	1603	1713	6.907756	
10	2	16	50.5	1859		7.993835	
11	2	16	97.2	1424		8.599434	
12	2	16	92.6	1448		9.089245	
13	2	16	62.1	1875		10.116621	
14	1	16	63.9			11.04919	
15	2	16	66.2	1789		11.901001	

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	18	73.1	1232		0.357755	
1	2	18	80.1	1946		0.928736	
2	1	18	55.8			1.413763	
3	2	18	87.2	1617		2.189229	
4	2	18	57.2	1830		2.994304	
5	1	18	91.3			3.754899	
6	3	18	91.4	1440	1394	4.589508	
7	1	18	65.3			5.056805	
8	2	18	67.8	1116		5.964096	1
9	1	18	59			6.691382	
10	2	18	84.2	1790		7.181044	
11	2	18	53.5	1357		8.073506	
12	2	18	59.9	1636		8.949887	
13	2	18	98	1457		9.589186	
14	3	18	55.3	1560	1893	10.291807	
15	2	18	88.7	1004		10.606003	
16	2	18	74	1243		11.78269	

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	10	61.4	1609		0.033984	
1	2	10	77.7	1989		0.985252	
2	1	10	65.1			1.754293	
3	2	10	61.9	1354		2.312674	
4	1	10	57.1			2.726871	
5	3	10	56.1	1144	1941	3.66579	
6	3	10	64.1	1450	1558	4.359454	
7	2	10	61	1962		4.868288	
8	3	10	55.6	1485	1139	5.541405	1
9	2	10	69.7	1414		6.180334	
10	2	10	76.3	1739		7.140292	
11	2	10	69	1142		7.817058	
12	1	10	63.3			8.622795	
13	3	10	68.5	1074	1728	8.817921	
14	3	10	72.1	1231	1533	9.571732	
15	3	10	64	1180	1455	10.350419	
16	3	10	51.7	1426	1460	11.070088	
17	1	10	82.8			11.903233	

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	18	60.8	1488		1.110136	
1	3	18	74.4	1801	1091	1.902397	
2	1	18	93.3			3.853618	
3	1	18	67.8			4.853817	
4	1	18	92.9			6.589894	1
5	2	18	55.2	1896		7.962006	
6	3	18	73.5	1101	1204	8.456356	
7	1	18	81			10.24318	
8	3	18	98.4	1044	1543	11.994137	

Bin5 Statistics 29

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	18	95.9	1508		0.814613	1
1	3	18	63.9	1720	1287	1.693063	
2	2	18	53.7	1780		2.486199	
3	2	18	60.9	1598		3.95669	
4	2	18	71	1283		4.758298	
5	2	18	54.7	1937		6.278835	
6	2	18	97.4	1402		7.244421	
7	3	18	63.3	1859	1077	8.676899	
8	1	18	53.9			9.481526	
9	2	18	79.1	1082		10.142913	
10	2	18	75.8	1569		11.312479	

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	11	80.1	1860		0.361394	1
1	3	11	83.8	1736	1081	1.067692	
2	2	11	84.3	1013		1.864722	
3	2	11	73.9	1054		2.555031	
4	2	11	70.5	1595		3.11955	
5	3	11	85.7	1406	1935	4.149725	
6	1	11	71.8			5.176461	
7	1	11	73.7			5.450249	
8	2	11	68.6	1799		6.501131	
9	1	11	63.8			6.751194	
10	1	11	54.5			7.556447	
11	2	11	92	1211		8.311954	
12	1	11	55.6			9.471828	
13	1	11	97.6			10.260308	
14	2	11	73.3	1967		11.111588	
15	3	11	61.1	1485	1877	11.926619	

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	5521.0, 5586.0, 5640.0, 5452.0, 5522.0, 5513.0, 5543.0, 5317.0, 5346.0, 5316.0, 5660.0, 5341.0, 5457.0, 5308.0, 5376.0, 5296.0, 5402.0, 5710.0, 5349.0, 5471.0, 5506.0, 5261.0, 5305.0, 5455.0, 5478.0, 5496.0, 5447.0, 5315.0, 5424.0, 5481.0, 5501.0, 5562.0, 5441.0, 5561.0, 5257.0, 5422.0, 5281.0, 5591.0, 5668.0, 5605.0, 5630.0, 5592.0, 5444.0, 5601.0, 5494.0, 5371.0, 5610.0, 5367.0, 5391.0, 5254.0, 5458.0, 5379.0, 5617.0, 5269.0, 5571.0, 5378.0, 5470.0, 5557.0, 5519.0, 5385.0, 5550.0, 5514.0, 5588.0, 5368.0, 5450.0, 5646.0, 5278.0, 5357.0, 5299.0, 5374.0, 5463.0, 5712.0, 5336.0, 5490.0, 5598.0, 5282.0, 5286.0, 5682.0, 5380.0, 5664.0, 5526.0, 5574.0, 5428.0, 5486.0, 5524.0, 5274.0, 5510.0, 5340.0, 5558.0, 5613.0, 5707.0, 5411.0, 5460.0, 5641.0, 5297.0, 5251.0, 5279.0, 5465.0, 5532.0, 5618.0 (number of hits: 18)
2	5290	9	1	333	1	5464.0, 5315.0, 5546.0, 5593.0, 5721.0, 5343.0, 5348.0, 5666.0, 5509.0, 5485.0, 5518.0, 5674.0, 5363.0, 5265.0, 5633.0, 5539.0, 5510.0, 5617.0, 5330.0, 5322.0, 5435.0, 5556.0, 5405.0, 5627.0, 5477.0, 5525.0, 5446.0, 5703.0, 5613.0, 5253.0, 5589.0, 5508.0, 5609.0, 5327.0, 5588.0, 5349.0, 5569.0, 5583.0, 5494.0, 5461.0, 5276.0, 5484.0, 5541.0, 5596.0, 5443.0, 5560.0, 5270.0, 5439.0, 5637.0, 5699.0, 5632.0, 5286.0, 5281.0, 5386.0, 5621.0, 5574.0, 5540.0, 5334.0, 5710.0, 5690.0, 5382.0, 5392.0, 5657.0, 5410.0, 5698.0, 5331.0, 5606.0, 5295.0, 5393.0, 5716.0, 5487.0, 5256.0, 5294.0, 5454.0, 5268.0, 5532.0, 5565.0, 5371.0, 5695.0, 5467.0, 5638.0, 5547.0, 5605.0, 5416.0, 5342.0, 5292.0, 5642.0, 5297.0, 5376.0, 5278.0, 5440.0, 5659.0, 5705.0, 5639.0, 5625.0, 5355.0, 5661.0, 5359.0, 5385.0, 5704.0 (number of hits: 16)
3	5290	9	1	333	1	5258.0, 5320.0, 5707.0, 5442.0, 5605.0, 5387.0, 5624.0, 5411.0, 5267.0, 5446.0, 5660.0, 5305.0, 5364.0, 5438.0, 5723.0, 5338.0, 5556.0, 5665.0, 5717.0, 5413.0, 5467.0, 5394.0, 5555.0, 5489.0, 5282.0, 5350.0, 5359.0, 5572.0, 5642.0, 5634.0, 5395.0, 5588.0, 5548.0, 5565.0, 5482.0, 5276.0, 5562.0, 5593.0, 5511.0, 5297.0, 5708.0, 5532.0, 5283.0, 5293.0, 5299.0, 5348.0, 5371.0, 5612.0, 5414.0, 5676.0, 5360.0, 5699.0, 5561.0, 5686.0, 5685.0, 5363.0, 5522.0, 5508.0, 5316.0, 5298.0,

						5703.0, 5382.0, 5601.0, 5543.0, 5675.0, 5265.0, 5645.0, 5714.0, 5669.0, 5488.0, 5656.0, 5570.0, 5497.0, 5584.0, 5523.0, 5546.0, 5474.0, 5550.0, 5405.0, 5408.0, 5499.0, 5585.0, 5695.0, 5646.0, 5455.0, 5380.0, 5494.0, 5361.0, 5502.0, 5591.0, 5560.0, 5268.0, 5719.0, 5493.0, 5260.0, 5663.0, 5458.0, 5367.0, 5448.0, 5435.0 (number of hits: 15)
4	5290	9	1	333	1	5425.0, 5543.0, 5658.0, 5427.0, 5383.0, 5713.0, 5354.0, 5264.0, 5292.0, 5635.0, 5628.0, 5403.0, 5624.0, 5571.0, 5651.0, 5440.0, 5516.0, 5253.0, 5607.0, 5611.0, 5609.0, 5491.0, 5391.0, 5521.0, 5407.0, 5664.0, 5356.0, 5359.0, 5446.0, 5313.0, 5418.0, 5705.0, 5662.0, 5414.0, 5582.0, 5723.0, 5661.0, 5520.0, 5367.0, 5595.0, 5601.0, 5657.0, 5650.0, 5306.0, 5390.0, 5530.0, 5386.0, 5649.0, 5324.0, 5404.0, 5633.0, 5506.0, 5406.0, 5369.0, 5495.0, 5621.0, 5702.0, 5321.0, 5688.0, 5412.0, 5268.0, 5260.0, 5417.0, 5612.0, 5325.0, 5373.0, 5466.0, 5512.0, 5270.0, 5572.0, 5334.0, 5697.0, 5578.0, 5320.0, 5710.0, 5546.0, 5700.0, 5588.0, 5679.0, 5421.0, 5504.0, 5583.0, 5289.0, 5437.0, 5478.0, 5602.0, 5615.0, 5675.0, 5496.0, 5469.0, 5683.0, 5605.0, 5252.0, 5311.0, 5329.0, 5484.0, 5523.0, 5542.0, 5459.0, 5455.0 (number of hits: 15)
5	5290	9	1	333	1	5548.0, 5678.0, 5377.0, 5256.0, 5684.0, 5560.0, 5719.0, 5416.0, 5538.0, 5716.0, 5467.0, 5510.0, 5676.0, 5413.0, 5490.0, 5259.0, 5277.0, 5605.0, 5706.0, 5391.0, 5542.0, 5511.0, 5592.0, 5589.0, 5266.0, 5660.0, 5641.0, 5288.0, 5555.0, 5639.0, 5479.0, 5323.0, 5551.0, 5272.0, 5452.0, 5297.0, 5595.0, 5669.0, 5547.0, 5371.0, 5306.0, 5257.0, 5582.0, 5606.0, 5647.0, 5440.0, 5380.0, 5422.0, 5598.0, 5386.0, 5409.0, 5651.0, 5385.0, 5713.0, 5313.0, 5638.0, 5378.0, 5581.0, 5532.0, 5302.0, 5348.0, 5685.0, 5652.0, 5363.0, 5515.0, 5688.0, 5356.0, 5718.0, 5361.0, 5307.0, 5406.0, 5559.0, 5357.0, 5448.0, 5432.0, 5632.0, 5280.0, 5649.0, 5724.0, 5278.0, 5499.0, 5670.0, 5435.0, 5679.0, 5254.0, 5309.0, 5514.0, 5431.0, 5489.0, 5437.0, 5346.0, 5518.0, 5358.0, 5627.0, 5315.0, 5531.0, 5635.0, 5294.0, 5650.0, 5628.0 (number of hits: 19)
6	5290	9	1	333	1	5690.0, 5347.0, 5378.0, 5503.0, 5566.0, 5624.0, 5583.0, 5622.0, 5404.0, 5299.0, 5375.0, 5582.0, 5623.0, 5400.0, 5541.0, 5576.0, 5414.0, 5335.0, 5708.0, 5355.0, 5350.0, 5370.0, 5696.0, 5660.0, 5264.0, 5533.0, 5484.0, 5417.0, 5437.0, 5536.0, 5675.0, 5665.0, 5710.0, 5497.0, 5614.0, 5362.0, 5396.0, 5451.0, 5502.0, 5480.0,

						5673.0, 5324.0, 5345.0, 5647.0, 5308.0, 5631.0, 5626.0, 5349.0, 5529.0, 5654.0, 5506.0, 5619.0, 5571.0, 5609.0, 5473.0, 5534.0, 5395.0, 5466.0, 5595.0, 5321.0, 5709.0, 5379.0, 5472.0, 5593.0, 5334.0, 5393.0, 5544.0, 5367.0, 5512.0, 5546.0, 5613.0, 5585.0, 5358.0, 5655.0, 5693.0, 5301.0, 5313.0, 5545.0, 5683.0, 5524.0, 5548.0, 5453.0, 5558.0, 5653.0, 5476.0, 5302.0, 5275.0, 5537.0, 5439.0, 5554.0, 5280.0, 5338.0, 5426.0, 5547.0, 5608.0, 5282.0, 5449.0, 5386.0, 5636.0, 5680.0 (number of hits: 11)
7	5290	9	1	333	1	5514.0, 5280.0, 5527.0, 5345.0, 5539.0, 5620.0, 5579.0, 5261.0, 5341.0, 5376.0, 5580.0, 5279.0, 5524.0, 5673.0, 5505.0, 5535.0, 5627.0, 5707.0, 5263.0, 5684.0, 5403.0, 5405.0, 5521.0, 5576.0, 5304.0, 5296.0, 5260.0, 5577.0, 5572.0, 5597.0, 5268.0, 5530.0, 5611.0, 5498.0, 5609.0, 5504.0, 5395.0, 5428.0, 5431.0, 5601.0, 5486.0, 5311.0, 5676.0, 5699.0, 5695.0, 5523.0, 5720.0, 5516.0, 5554.0, 5703.0, 5651.0, 5705.0, 5556.0, 5717.0, 5343.0, 5316.0, 5372.0, 5302.0, 5655.0, 5286.0, 5466.0, 5355.0, 5444.0, 5379.0, 5332.0, 5352.0, 5678.0, 5616.0, 5545.0, 5290.0, 5544.0, 5338.0, 5388.0, 5638.0, 5568.0, 5626.0, 5503.0, 5532.0, 5307.0, 5716.0, 5599.0, 5617.0, 5473.0, 5329.0, 5502.0, 5448.0, 5336.0, 5665.0, 5399.0, 5274.0, 5478.0, 5482.0, 5522.0, 5360.0, 5453.0, 5492.0, 5351.0, 5398.0, 5517.0, 5590.0 (number of hits: 15)
8	5290	9	1	333	1	5429.0, 5388.0, 5551.0, 5277.0, 5345.0, 5597.0, 5298.0, 5450.0, 5396.0, 5565.0, 5331.0, 5475.0, 5507.0, 5406.0, 5367.0, 5505.0, 5373.0, 5371.0, 5435.0, 5343.0, 5617.0, 5425.0, 5616.0, 5549.0, 5665.0, 5650.0, 5370.0, 5397.0, 5344.0, 5626.0, 5640.0, 5299.0, 5605.0, 5376.0, 5542.0, 5586.0, 5718.0, 5325.0, 5256.0, 5628.0, 5281.0, 5438.0, 5619.0, 5252.0, 5686.0, 5719.0, 5600.0, 5346.0, 5411.0, 5453.0, 5462.0, 5595.0, 5722.0, 5349.0, 5272.0, 5340.0, 5401.0, 5444.0, 5500.0, 5403.0, 5452.0, 5374.0, 5593.0, 5570.0, 5336.0, 5362.0, 5550.0, 5337.0, 5333.0, 5668.0, 5576.0, 5495.0, 5684.0, 5412.0, 5305.0, 5387.0, 5630.0, 5414.0, 5707.0, 5681.0, 5474.0, 5310.0, 5688.0, 5594.0, 5588.0, 5443.0, 5415.0, 5257.0, 5620.0, 5364.0, 5670.0, 5470.0, 5479.0, 5503.0, 5492.0, 5321.0, 5610.0, 5467.0, 5457.0, 5603.0 (number of hits: 12)
9	5290	9	1	333	1	5321.0, 5455.0, 5620.0, 5606.0, 5424.0, 5276.0, 5387.0, 5328.0, 5592.0, 5671.0, 5523.0, 5654.0, 5665.0, 5272.0, 5258.0, 5293.0, 5340.0, 5287.0, 5587.0, 5288.0,

						5412.0, 5443.0, 5642.0, 5713.0, 5630.0, 5621.0, 5527.0, 5533.0, 5346.0, 5314.0, 5327.0, 5552.0, 5388.0, 5574.0, 5442.0, 5401.0, 5260.0, 5596.0, 5333.0, 5659.0, 5643.0, 5609.0, 5503.0, 5690.0, 5594.0, 5332.0, 5367.0, 5568.0, 5505.0, 5524.0, 5650.0, 5549.0, 5353.0, 5501.0, 5429.0, 5304.0, 5472.0, 5267.0, 5707.0, 5679.0, 5700.0, 5422.0, 5570.0, 5558.0, 5544.0, 5585.0, 5624.0, 5703.0, 5355.0, 5535.0, 5385.0, 5436.0, 5640.0, 5555.0, 5331.0, 5317.0, 5361.0, 5465.0, 5396.0, 5404.0, 5486.0, 5301.0, 5253.0, 5684.0, 5393.0, 5368.0, 5280.0, 5575.0, 5500.0, 5603.0, 5284.0, 5471.0, 5371.0, 5711.0, 5625.0, 5512.0, 5618.0, 5614.0, 5431.0, 5290.0 (number of hits: 18)
10	5290	9	1	333	1	5694.0, 5310.0, 5324.0, 5521.0, 5666.0, 5275.0, 5612.0, 5431.0, 5530.0, 5430.0, 5352.0, 5371.0, 5618.0, 5567.0, 5569.0, 5252.0, 5581.0, 5481.0, 5720.0, 5600.0, 5302.0, 5405.0, 5340.0, 5414.0, 5682.0, 5599.0, 5721.0, 5506.0, 5388.0, 5540.0, 5606.0, 5488.0, 5537.0, 5651.0, 5393.0, 5495.0, 5453.0, 5423.0, 5526.0, 5687.0, 5274.0, 5645.0, 5390.0, 5678.0, 5563.0, 5471.0, 5578.0, 5707.0, 5441.0, 5583.0, 5706.0, 5671.0, 5456.0, 5633.0, 5408.0, 5292.0, 5516.0, 5305.0, 5605.0, 5588.0, 5576.0, 5652.0, 5570.0, 5699.0, 5323.0, 5384.0, 5659.0, 5619.0, 5374.0, 5291.0, 5409.0, 5360.0, 5561.0, 5642.0, 5464.0, 5315.0, 5653.0, 5400.0, 5611.0, 5592.0, 5638.0, 5356.0, 5357.0, 5362.0, 5635.0, 5255.0, 5575.0, 5504.0, 5613.0, 5615.0, 5349.0, 5331.0, 5303.0, 5272.0, 5573.0, 5696.0, 5368.0, 5365.0, 5433.0, 5491.0 (number of hits: 14)
11	5250	9	1	333	1	5453.0, 5514.0, 5535.0, 5621.0, 5373.0, 5591.0, 5275.0, 5450.0, 5354.0, 5486.0, 5406.0, 5335.0, 5541.0, 5280.0, 5333.0, 5534.0, 5366.0, 5618.0, 5537.0, 5547.0, 5654.0, 5703.0, 5364.0, 5639.0, 5525.0, 5625.0, 5288.0, 5306.0, 5712.0, 5620.0, 5494.0, 5709.0, 5480.0, 5266.0, 5632.0, 5543.0, 5367.0, 5414.0, 5331.0, 5332.0, 5670.0, 5661.0, 5602.0, 5617.0, 5290.0, 5455.0, 5363.0, 5647.0, 5636.0, 5291.0, 5679.0, 5642.0, 5714.0, 5412.0, 5522.0, 5612.0, 5442.0, 5410.0, 5416.0, 5330.0, 5358.0, 5653.0, 5696.0, 5478.0, 5407.0, 5292.0, 5584.0, 5690.0, 5396.0, 5439.0, 5559.0, 5506.0, 5698.0, 5402.0, 5307.0, 5610.0, 5692.0, 5341.0, 5652.0, 5687.0, 5717.0, 5389.0, 5581.0, 5394.0, 5441.0, 5701.0, 5631.0, 5385.0, 5640.0, 5622.0, 5531.0, 5674.0, 5587.0, 5507.0, 5677.0, 5444.0, 5598.0, 5641.0, 5523.0, 5347.0 (number of hits: 3)

12	5250	9	1	333	1	5548.0, 5555.0, 5336.0, 5250.0, 5600.0, 5343.0, 5512.0, 5635.0, 5592.0, 5513.0, 5612.0, 5498.0, 5303.0, 5711.0, 5348.0, 5439.0, 5496.0, 5563.0, 5414.0, 5620.0, 5569.0, 5274.0, 5325.0, 5651.0, 5304.0, 5402.0, 5451.0, 5659.0, 5340.0, 5720.0, 5456.0, 5714.0, 5716.0, 5703.0, 5320.0, 5316.0, 5603.0, 5608.0, 5685.0, 5480.0, 5403.0, 5534.0, 5474.0, 5653.0, 5367.0, 5452.0, 5523.0, 5431.0, 5681.0, 5457.0, 5369.0, 5553.0, 5646.0, 5285.0, 5509.0, 5588.0, 5701.0, 5459.0, 5578.0, 5345.0, 5526.0, 5574.0, 5570.0, 5540.0, 5505.0, 5586.0, 5277.0, 5637.0, 5694.0, 5599.0, 5379.0, 5463.0, 5697.0, 5657.0, 5490.0, 5360.0, 5296.0, 5700.0, 5619.0, 5606.0, 5387.0, 5323.0, 5460.0, 5672.0, 5328.0, 5713.0, 5636.0, 5408.0, 5339.0, 5568.0, 5528.0, 5344.0, 5517.0, 5481.0, 5464.0, 5664.0, 5609.0, 5579.0, 5682.0, 5489.0 (number of hits: 4)
13	5250	9	1	333	1	5594.0, 5408.0, 5300.0, 5706.0, 5429.0, 5638.0, 5489.0, 5432.0, 5434.0, 5405.0, 5385.0, 5608.0, 5543.0, 5270.0, 5456.0, 5487.0, 5454.0, 5317.0, 5536.0, 5494.0, 5666.0, 5529.0, 5724.0, 5355.0, 5492.0, 5387.0, 5416.0, 5371.0, 5448.0, 5634.0, 5435.0, 5401.0, 5343.0, 5710.0, 5333.0, 5722.0, 5674.0, 5441.0, 5528.0, 5677.0, 5556.0, 5639.0, 5304.0, 5709.0, 5527.0, 5251.0, 5585.0, 5614.0, 5516.0, 5443.0, 5720.0, 5699.0, 5586.0, 5299.0, 5506.0, 5328.0, 5473.0, 5701.0, 5344.0, 5550.0, 5690.0, 5286.0, 5567.0, 5293.0, 5444.0, 5297.0, 5320.0, 5269.0, 5382.0, 5334.0, 5276.0, 5502.0, 5411.0, 5296.0, 5538.0, 5560.0, 5656.0, 5652.0, 5581.0, 5330.0, 5418.0, 5347.0, 5669.0, 5305.0, 5703.0, 5627.0, 5281.0, 5488.0, 5338.0, 5327.0, 5295.0, 5483.0, 5632.0, 5294.0, 5459.0, 5517.0, 5617.0, 5678.0, 5423.0, 5280.0 (number of hits: 7)
14	5250	9	1	333	1	5538.0, 5502.0, 5583.0, 5251.0, 5280.0, 5258.0, 5650.0, 5544.0, 5257.0, 5491.0, 5440.0, 5363.0, 5269.0, 5688.0, 5499.0, 5339.0, 5322.0, 5516.0, 5628.0, 5468.0, 5593.0, 5539.0, 5703.0, 5261.0, 5467.0, 5621.0, 5630.0, 5655.0, 5504.0, 5496.0, 5334.0, 5645.0, 5683.0, 5394.0, 5567.0, 5444.0, 5612.0, 5682.0, 5299.0, 5473.0, 5272.0, 5675.0, 5540.0, 5511.0, 5378.0, 5601.0, 5507.0, 5479.0, 5716.0, 5519.0, 5380.0, 5457.0, 5449.0, 5488.0, 5568.0, 5352.0, 5609.0, 5309.0, 5569.0, 5265.0, 5371.0, 5711.0, 5459.0, 5421.0, 5356.0, 5420.0, 5587.0, 5374.0, 5330.0, 5448.0, 5574.0, 5633.0, 5631.0, 5416.0, 5646.0, 5684.0, 5351.0, 5342.0, 5456.0, 5602.0, 5458.0, 5572.0, 5604.0, 5438.0, 5273.0,

						5474.0, 5494.0, 5300.0, 5318.0, 5529.0, 5627.0, 5643.0, 5520.0, 5547.0, 5694.0, 5296.0, 5654.0, 5708.0, 5719.0, 5542.0 (number of hits: 9)
15	5250	9	1	333	1	5470.0, 5454.0, 5577.0, 5570.0, 5550.0, 5715.0, 5319.0, 5421.0, 5674.0, 5562.0, 5398.0, 5601.0, 5647.0, 5334.0, 5698.0, 5459.0, 5594.0, 5404.0, 5327.0, 5524.0, 5598.0, 5324.0, 5717.0, 5474.0, 5295.0, 5263.0, 5605.0, 5580.0, 5396.0, 5612.0, 5723.0, 5306.0, 5502.0, 5617.0, 5353.0, 5559.0, 5499.0, 5279.0, 5635.0, 5342.0, 5649.0, 5265.0, 5406.0, 5432.0, 5428.0, 5321.0, 5289.0, 5530.0, 5681.0, 5456.0, 5351.0, 5645.0, 5546.0, 5344.0, 5677.0, 5282.0, 5262.0, 5484.0, 5630.0, 5667.0, 5540.0, 5267.0, 5505.0, 5564.0, 5426.0, 5346.0, 5394.0, 5332.0, 5644.0, 5712.0, 5722.0, 5427.0, 5431.0, 5574.0, 5535.0, 5515.0, 5599.0, 5706.0, 5613.0, 5495.0, 5330.0, 5648.0, 5655.0, 5387.0, 5694.0, 5302.0, 5435.0, 5338.0, 5503.0, 5258.0, 5365.0, 5458.0, 5380.0, 5423.0, 5620.0, 5285.0, 5480.0, 5539.0, 5254.0, 5589.0 (number of hits: 9)
16	5250	9	1	333	0	0
17	5250	9	1	333	1	5644.0, 5620.0, 5334.0, 5521.0, 5304.0, 5258.0, 5435.0, 5678.0, 5687.0, 5509.0, 5656.0, 5570.0, 5413.0, 5351.0, 5444.0, 5539.0, 5262.0, 5625.0, 5396.0, 5550.0, 5634.0, 5368.0, 5610.0, 5278.0, 5598.0, 5485.0, 5473.0, 5388.0, 5453.0, 5459.0, 5561.0, 5392.0, 5533.0, 5401.0, 5487.0, 5527.0, 5303.0, 5572.0, 5411.0, 5295.0, 5364.0, 5593.0, 5423.0, 5627.0, 5451.0, 5517.0, 5723.0, 5287.0, 5673.0, 5472.0, 5650.0, 5684.0, 5639.0, 5437.0, 5579.0, 5564.0, 5721.0, 5403.0, 5457.0, 5712.0, 5530.0, 5433.0, 5470.0, 5400.0, 5703.0, 5447.0, 5506.0, 5419.0, 5300.0, 5405.0, 5324.0, 5350.0, 5281.0, 5671.0, 5387.0, 5556.0, 5315.0, 5531.0, 5333.0, 5308.0, 5439.0, 5651.0, 5438.0, 5664.0, 5408.0, 5566.0, 5601.0, 5353.0, 5402.0, 5702.0, 5507.0, 5600.0, 5488.0, 5662.0, 5332.0, 5256.0, 5272.0, 5253.0, 5441.0, 5534.0 (number of hits: 8)
18	5250	9	1	333	1	5707.0, 5671.0, 5586.0, 5517.0, 5413.0, 5281.0, 5470.0, 5685.0, 5505.0, 5348.0, 5628.0, 5297.0, 5539.0, 5287.0, 5314.0, 5300.0, 5566.0, 5424.0, 5412.0, 5623.0, 5252.0, 5575.0, 5360.0, 5343.0, 5292.0, 5674.0, 5436.0, 5283.0, 5399.0, 5516.0, 5595.0, 5497.0, 5494.0, 5290.0, 5493.0, 5526.0, 5693.0, 5308.0, 5417.0, 5310.0, 5320.0, 5327.0, 5538.0, 5513.0, 5349.0, 5479.0, 5363.0, 5286.0, 5622.0, 5639.0, 5601.0, 5599.0, 5574.0, 5618.0, 5698.0, 5527.0, 5420.0, 5654.0, 5463.0, 5579.0,

						5511.0, 5715.0, 5565.0, 5364.0, 5328.0, 5652.0, 5713.0, 5682.0, 5653.0, 5546.0, 5518.0, 5602.0, 5288.0, 5552.0, 5670.0, 5589.0, 5600.0, 5263.0, 5323.0, 5407.0, 5326.0, 5629.0, 5491.0, 5531.0, 5372.0, 5268.0, 5361.0, 5335.0, 5572.0, 5277.0, 5434.0, 5423.0, 5708.0, 5398.0, 5351.0, 5439.0, 5366.0, 5522.0, 5610.0, 5253.0 (number of hits: 9)
19	5250	9	1	333	1	5459.0, 5322.0, 5436.0, 5264.0, 5418.0, 5460.0, 5315.0, 5625.0, 5585.0, 5635.0, 5558.0, 5649.0, 5570.0, 5623.0, 5387.0, 5617.0, 5709.0, 5504.0, 5383.0, 5360.0, 5468.0, 5319.0, 5594.0, 5638.0, 5523.0, 5277.0, 5588.0, 5381.0, 5553.0, 5325.0, 5633.0, 5359.0, 5480.0, 5308.0, 5535.0, 5508.0, 5520.0, 5347.0, 5462.0, 5280.0, 5373.0, 5598.0, 5361.0, 5395.0, 5351.0, 5601.0, 5281.0, 5331.0, 5641.0, 5659.0, 5549.0, 5495.0, 5610.0, 5555.0, 5643.0, 5435.0, 5706.0, 5342.0, 5624.0, 5364.0, 5711.0, 5603.0, 5274.0, 5271.0, 5559.0, 5656.0, 5365.0, 5613.0, 5596.0, 5327.0, 5288.0, 5675.0, 5532.0, 5304.0, 5578.0, 5430.0, 5577.0, 5490.0, 5551.0, 5412.0, 5529.0, 5702.0, 5637.0, 5483.0, 5257.0, 5626.0, 5694.0, 5439.0, 5595.0, 5667.0, 5261.0, 5565.0, 5640.0, 5477.0, 5404.0, 5467.0, 5354.0, 5268.0, 5394.0, 5265.0 (number of hits: 10)
20	5250	9	1	333	0	0
21	5330	9	1	333	1	5696.0, 5553.0, 5261.0, 5334.0, 5298.0, 5281.0, 5417.0, 5549.0, 5568.0, 5708.0, 5505.0, 5683.0, 5502.0, 5389.0, 5692.0, 5508.0, 5314.0, 5666.0, 5669.0, 5365.0, 5436.0, 5489.0, 5695.0, 5311.0, 5371.0, 5641.0, 5348.0, 5713.0, 5376.0, 5288.0, 5270.0, 5595.0, 5454.0, 5338.0, 5589.0, 5510.0, 5673.0, 5551.0, 5482.0, 5647.0, 5598.0, 5527.0, 5266.0, 5703.0, 5491.0, 5455.0, 5282.0, 5656.0, 5465.0, 5292.0, 5547.0, 5450.0, 5631.0, 5305.0, 5308.0, 5339.0, 5543.0, 5456.0, 5313.0, 5649.0, 5297.0, 5575.0, 5278.0, 5285.0, 5466.0, 5275.0, 5658.0, 5257.0, 5721.0, 5632.0, 5529.0, 5625.0, 5346.0, 5719.0, 5252.0, 5446.0, 5492.0, 5474.0, 5670.0, 5715.0, 5469.0, 5594.0, 5640.0, 5483.0, 5592.0, 5327.0, 5512.0, 5448.0, 5414.0, 5573.0, 5576.0, 5460.0, 5545.0, 5484.0, 5548.0, 5357.0, 5577.0, 5467.0, 5583.0, 5706.0 (number of hits: 16)
22	5330	9	1	333	1	5263.0, 5564.0, 5618.0, 5317.0, 5277.0, 5683.0, 5686.0, 5376.0, 5506.0, 5645.0, 5355.0, 5260.0, 5566.0, 5626.0, 5418.0, 5685.0, 5416.0, 5580.0, 5482.0, 5670.0, 5695.0, 5633.0, 5390.0, 5548.0, 5368.0, 5278.0, 5433.0, 5443.0, 5528.0, 5347.0, 5389.0, 5549.0, 5287.0, 5261.0, 5636.0,

						5719.0, 5258.0, 5494.0, 5559.0, 5284.0, 5442.0, 5599.0, 5693.0, 5415.0, 5677.0, 5324.0, 5594.0, 5259.0, 5595.0, 5713.0, 5684.0, 5407.0, 5625.0, 5615.0, 5486.0, 5400.0, 5330.0, 5638.0, 5285.0, 5657.0, 5420.0, 5653.0, 5398.0, 5353.0, 5600.0, 5574.0, 5332.0, 5723.0, 5538.0, 5360.0, 5404.0, 5671.0, 5267.0, 5596.0, 5598.0, 5294.0, 5556.0, 5487.0, 5453.0, 5563.0, 5524.0, 5706.0, 5619.0, 5298.0, 5311.0, 5387.0, 5646.0, 5427.0, 5378.0, 5624.0, 5447.0, 5268.0, 5374.0, 5630.0, 5614.0, 5665.0, 5315.0, 5435.0, 5381.0, 5445.0 (number of hits: 12)
23	5330	9	1	333	1	5421.0, 5389.0, 5276.0, 5564.0, 5317.0, 5312.0, 5436.0, 5665.0, 5309.0, 5383.0, 5442.0, 5286.0, 5307.0, 5293.0, 5724.0, 5493.0, 5548.0, 5366.0, 5364.0, 5573.0, 5477.0, 5568.0, 5323.0, 5625.0, 5287.0, 5562.0, 5400.0, 5297.0, 5262.0, 5670.0, 5363.0, 5458.0, 5593.0, 5683.0, 5291.0, 5608.0, 5698.0, 5526.0, 5343.0, 5722.0, 5331.0, 5271.0, 5279.0, 5504.0, 5569.0, 5348.0, 5365.0, 5252.0, 5696.0, 5656.0, 5251.0, 5498.0, 5384.0, 5631.0, 5599.0, 5488.0, 5382.0, 5649.0, 5598.0, 5574.0, 5524.0, 5711.0, 5590.0, 5423.0, 5393.0, 5662.0, 5339.0, 5474.0, 5679.0, 5440.0, 5547.0, 5295.0, 5507.0, 5633.0, 5558.0, 5609.0, 5678.0, 5506.0, 5459.0, 5719.0, 5319.0, 5566.0, 5422.0, 5630.0, 5349.0, 5500.0, 5256.0, 5638.0, 5318.0, 5546.0, 5712.0, 5299.0, 5281.0, 5508.0, 5697.0, 5622.0, 5371.0, 5320.0, 5497.0, 5410.0 (number of hits: 21)
24	5330	9	1	333	1	5699.0, 5691.0, 5450.0, 5258.0, 5394.0, 5521.0, 5570.0, 5629.0, 5512.0, 5459.0, 5700.0, 5689.0, 5435.0, 5651.0, 5308.0, 5601.0, 5283.0, 5299.0, 5716.0, 5620.0, 5569.0, 5478.0, 5630.0, 5397.0, 5254.0, 5706.0, 5276.0, 5454.0, 5426.0, 5264.0, 5361.0, 5666.0, 5571.0, 5378.0, 5458.0, 5660.0, 5267.0, 5549.0, 5572.0, 5546.0, 5574.0, 5647.0, 5694.0, 5636.0, 5683.0, 5342.0, 5332.0, 5487.0, 5485.0, 5460.0, 5495.0, 5690.0, 5410.0, 5614.0, 5591.0, 5373.0, 5358.0, 5678.0, 5434.0, 5499.0, 5719.0, 5265.0, 5436.0, 5419.0, 5692.0, 5543.0, 5348.0, 5718.0, 5708.0, 5665.0, 5488.0, 5490.0, 5356.0, 5538.0, 5337.0, 5263.0, 5359.0, 5331.0, 5251.0, 5252.0, 5627.0, 5639.0, 5567.0, 5285.0, 5463.0, 5662.0, 5476.0, 5552.0, 5474.0, 5364.0, 5558.0, 5425.0, 5481.0, 5661.0, 5541.0, 5637.0, 5456.0, 5515.0, 5540.0, 5667.0 (number of hits: 12)
25	5330	9	1	333	1	5643.0, 5484.0, 5638.0, 5592.0, 5527.0, 5382.0, 5580.0, 5309.0, 5443.0, 5702.0, 5278.0, 5543.0, 5656.0, 5432.0, 5660.0,

						5287.0, 5678.0, 5372.0, 5705.0, 5528.0, 5466.0, 5684.0, 5386.0, 5404.0, 5357.0, 5649.0, 5322.0, 5334.0, 5486.0, 5505.0, 5375.0, 5633.0, 5717.0, 5642.0, 5499.0, 5356.0, 5569.0, 5600.0, 5630.0, 5493.0, 5447.0, 5696.0, 5475.0, 5673.0, 5721.0, 5655.0, 5674.0, 5488.0, 5327.0, 5326.0, 5692.0, 5391.0, 5444.0, 5440.0, 5688.0, 5297.0, 5641.0, 5628.0, 5653.0, 5434.0, 5690.0, 5298.0, 5502.0, 5351.0, 5545.0, 5416.0, 5410.0, 5452.0, 5531.0, 5647.0, 5610.0, 5254.0, 5724.0, 5691.0, 5551.0, 5274.0, 5369.0, 5316.0, 5491.0, 5359.0, 5572.0, 5492.0, 5394.0, 5519.0, 5668.0, 5536.0, 5335.0, 5462.0, 5449.0, 5664.0, 5264.0, 5429.0, 5338.0, 5648.0, 5383.0, 5457.0, 5293.0, 5539.0, 5340.0, 5511.0 (number of hits: 16)
26	5330	9	1	333	1	5293.0, 5489.0, 5663.0, 5363.0, 5554.0, 5505.0, 5353.0, 5640.0, 5478.0, 5576.0, 5333.0, 5589.0, 5364.0, 5393.0, 5527.0, 5666.0, 5283.0, 5381.0, 5673.0, 5250.0, 5572.0, 5377.0, 5346.0, 5498.0, 5467.0, 5688.0, 5720.0, 5614.0, 5677.0, 5437.0, 5549.0, 5406.0, 5349.0, 5634.0, 5261.0, 5435.0, 5332.0, 5425.0, 5368.0, 5390.0, 5339.0, 5280.0, 5701.0, 5652.0, 5718.0, 5267.0, 5457.0, 5484.0, 5535.0, 5499.0, 5310.0, 5476.0, 5290.0, 5530.0, 5270.0, 5421.0, 5369.0, 5503.0, 5431.0, 5544.0, 5482.0, 5254.0, 5638.0, 5385.0, 5417.0, 5507.0, 5647.0, 5341.0, 5579.0, 5453.0, 5562.0, 5285.0, 5493.0, 5432.0, 5458.0, 5262.0, 5670.0, 5350.0, 5685.0, 5593.0, 5721.0, 5534.0, 5705.0, 5469.0, 5252.0, 5401.0, 5694.0, 5446.0, 5415.0, 5366.0, 5465.0, 5411.0, 5510.0, 5555.0, 5700.0, 5691.0, 5451.0, 5552.0, 5470.0, 5704.0 (number of hits: 13)
27	5330	9	1	333	1	5290.0, 5636.0, 5259.0, 5278.0, 5597.0, 5651.0, 5449.0, 5499.0, 5319.0, 5640.0, 5723.0, 5297.0, 5718.0, 5436.0, 5569.0, 5669.0, 5418.0, 5345.0, 5694.0, 5360.0, 5458.0, 5301.0, 5302.0, 5677.0, 5295.0, 5477.0, 5269.0, 5443.0, 5412.0, 5706.0, 5600.0, 5655.0, 5709.0, 5298.0, 5601.0, 5657.0, 5395.0, 5335.0, 5558.0, 5528.0, 5348.0, 5705.0, 5588.0, 5676.0, 5625.0, 5441.0, 5339.0, 5615.0, 5599.0, 5591.0, 5624.0, 5635.0, 5343.0, 5695.0, 5427.0, 5438.0, 5344.0, 5318.0, 5305.0, 5573.0, 5307.0, 5261.0, 5557.0, 5379.0, 5351.0, 5409.0, 5572.0, 5399.0, 5609.0, 5355.0, 5644.0, 5548.0, 5316.0, 5311.0, 5535.0, 5359.0, 5566.0, 5653.0, 5336.0, 5488.0, 5578.0, 5286.0, 5495.0, 5354.0, 5273.0, 5462.0, 5346.0, 5552.0, 5672.0, 5545.0, 5716.0, 5317.0, 5562.0, 5440.0, 5579.0, 5700.0, 5646.0, 5674.0, 5708.0, 5555.0

						(number of hits: 25)
28	5330	9	1	333	1	5576.0, 5465.0, 5339.0, 5671.0, 5269.0, 5396.0, 5412.0, 5668.0, 5525.0, 5438.0, 5366.0, 5509.0, 5532.0, 5258.0, 5286.0, 5411.0, 5494.0, 5329.0, 5372.0, 5538.0, 5693.0, 5593.0, 5414.0, 5709.0, 5498.0, 5587.0, 5555.0, 5472.0, 5506.0, 5343.0, 5419.0, 5585.0, 5327.0, 5402.0, 5441.0, 5703.0, 5612.0, 5254.0, 5715.0, 5685.0, 5594.0, 5661.0, 5485.0, 5300.0, 5421.0, 5361.0, 5446.0, 5592.0, 5309.0, 5542.0, 5663.0, 5317.0, 5720.0, 5471.0, 5310.0, 5543.0, 5625.0, 5335.0, 5666.0, 5477.0, 5545.0, 5483.0, 5535.0, 5648.0, 5444.0, 5311.0, 5399.0, 5298.0, 5291.0, 5556.0, 5561.0, 5482.0, 5456.0, 5266.0, 5575.0, 5256.0, 5711.0, 5511.0, 5470.0, 5499.0, 5407.0, 5445.0, 5610.0, 5416.0, 5646.0, 5467.0, 5333.0, 5319.0, 5590.0, 5375.0, 5280.0, 5443.0, 5284.0, 5564.0, 5364.0, 5261.0, 5551.0, 5408.0, 5428.0, 5519.0 (number of hits: 16)
29	5330	9	1	333	1	5467.0, 5683.0, 5295.0, 5491.0, 5515.0, 5650.0, 5279.0, 5667.0, 5413.0, 5659.0, 5342.0, 5564.0, 5666.0, 5573.0, 5505.0, 5641.0, 5543.0, 5606.0, 5456.0, 5540.0, 5696.0, 5297.0, 5343.0, 5412.0, 5547.0, 5677.0, 5702.0, 5320.0, 5661.0, 5332.0, 5561.0, 5657.0, 5644.0, 5647.0, 5352.0, 5443.0, 5345.0, 5306.0, 5292.0, 5625.0, 5355.0, 5255.0, 5322.0, 5341.0, 5318.0, 5285.0, 5440.0, 5511.0, 5588.0, 5463.0, 5534.0, 5537.0, 5656.0, 5509.0, 5563.0, 5724.0, 5635.0, 5612.0, 5390.0, 5536.0, 5483.0, 5662.0, 5423.0, 5422.0, 5432.0, 5416.0, 5570.0, 5633.0, 5310.0, 5684.0, 5510.0, 5367.0, 5574.0, 5711.0, 5698.0, 5500.0, 5398.0, 5254.0, 5486.0, 5716.0, 5703.0, 5458.0, 5639.0, 5405.0, 5610.0, 5353.0, 5455.0, 5638.0, 5600.0, 5376.0, 5602.0, 5317.0, 5549.0, 5567.0, 5630.0, 5521.0, 5401.0, 5402.0, 5315.0, 5356.0 (number of hits: 20)
30	5330	9	1	333	1	5455.0, 5630.0, 5588.0, 5638.0, 5356.0, 5540.0, 5380.0, 5604.0, 5697.0, 5685.0, 5636.0, 5693.0, 5440.0, 5408.0, 5690.0, 5585.0, 5666.0, 5262.0, 5668.0, 5623.0, 5717.0, 5705.0, 5308.0, 5421.0, 5444.0, 5415.0, 5677.0, 5255.0, 5487.0, 5287.0, 5548.0, 5312.0, 5347.0, 5495.0, 5304.0, 5515.0, 5704.0, 5682.0, 5383.0, 5261.0, 5306.0, 5593.0, 5669.0, 5354.0, 5345.0, 5368.0, 5570.0, 5483.0, 5470.0, 5299.0, 5377.0, 5437.0, 5370.0, 5639.0, 5539.0, 5407.0, 5708.0, 5352.0, 5529.0, 5718.0, 5451.0, 5720.0, 5716.0, 5520.0, 5676.0, 5406.0, 5534.0, 5550.0, 5551.0, 5474.0, 5276.0, 5634.0, 5374.0, 5478.0, 5695.0, 5395.0, 5425.0, 5573.0, 5357.0, 5339.0,

						5707.0, 5512.0, 5327.0, 5521.0, 5484.0, 5711.0, 5361.0, 5460.0, 5366.0, 5608.0, 5625.0, 5389.0, 5461.0, 5384.0, 5679.0, 5314.0, 5560.0, 5400.0, 5353.0, 5590.0 (number of hits: 17)

5500 MHz, 20 MHz Bandwidth

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1A/1B	30	93.3 %	60%	Pass
Type 2	30	86.7 %	60%	Pass
Type 3	30	73.3 %	60%	Pass
Type 4	30	83.3 %	60%	Pass
Aggregate (Type1 to 4)	120	84.15 %	80%	Pass
Type 5	30	93.3 %	80%	Pass
Type 6	30	100 %	70%	Pass

Please refer to the following statistical tables:

5500 MHz, 20 MHz Bandwidth

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

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5500	99	1	538	1
2	5500	95	1	558	1
3	5500	89	1	598	1
4	5500	67	1	798	1
5	5500	62	1	858	1
6	5490	59	1	898	1
7	5490	102	1	518	1
8	5490	78	1	678	1
9	5490	58	1	918	1
10	5490	65	1	818	1
11	5510	63	1	838	1
12	5510	70	1	758	1
13	5510	86	1	618	1
14	5510	72	1	738	1
15	5510	74	1	718	1
16	5500	47	1	1141	1
17	5500	41	1	1300	1
18	5500	31	1	1747	1
19	5500	22	1	2426	1
20	5500	95	1	557	1
21	5490	18	1	2956	0
22	5490	38	1	1415	1
23	5490	58	1	920	1
24	5490	29	1	1832	0
25	5490	47	1	1133	1
26	5510	25	1	2141	1
27	5510	31	1	1706	1
28	5510	29	1	1831	1
29	5510	23	1	2385	1
30	5510	23	1	2324	1
Detection Percentage: 93.3 % (>60%)					

Table-2 Radar Type 2 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5500	29	2.9	153	1
2	5500	24	4.9	153	1
3	5500	28	4.9	218	1
4	5500	25	1.1	208	1
5	5500	23	2	154	1
6	5500	28	1.6	162	0
7	5500	29	3.3	214	1
8	5500	25	1.5	219	1
9	5500	27	4.9	169	1
10	5500	23	2	225	1
11	5490	27	1.3	160	1
12	5490	24	3.6	216	1
13	5490	26	3.6	169	1
14	5490	28	2.4	206	1
15	5490	28	1.6	151	1
16	5490	24	3.5	182	0
17	5490	24	1.1	219	1
18	5490	25	4.7	169	1
19	5490	27	1.5	158	1
20	5490	25	2.2	183	1
21	5510	23	2.1	202	0
22	5510	27	4.4	185	1
23	5510	25	4.1	207	1
24	5510	28	4.5	177	1
25	5510	24	4	218	1
26	5510	29	1.3	186	0
27	5510	26	5	193	1
28	5510	26	4.1	184	1
29	5510	27	3.6	201	1
30	5510	25	1.4	213	1
Detection Percentage: 86.7 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5500	18	8.9	243	1
2	5500	16	9.5	234	1
3	5500	18	8.4	355	1
4	5500	18	6.8	255	1
5	5500	16	8.1	302	1
6	5500	18	6	273	0
7	5500	16	7.3	418	1
8	5500	17	9.8	339	0
9	5500	17	7.3	338	0
10	5500	18	7.1	469	1
11	5490	16	6.1	243	1
12	5490	16	7.4	417	1
13	5490	16	9.7	456	1
14	5490	16	7.5	359	1
15	5490	18	6	444	1
16	5490	17	6.7	306	0
17	5490	17	9.8	361	1
18	5490	16	7.5	293	1
19	5490	17	6.9	315	1
20	5490	16	7.3	455	0
21	5510	16	7	210	1
22	5510	18	9.1	408	1
23	5510	17	9.4	490	1
24	5510	16	6.4	462	1
25	5510	18	8.7	383	1
26	5510	17	7	395	1
27	5510	17	6.5	419	0
28	5510	16	8.1	317	0
29	5510	16	8.2	365	0
30	5510	16	6.4	349	1
Detection Percentage: 73.3 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5500	15	14.1	356	1
2	5500	16	18.5	365	1
3	5500	16	11.7	431	1
4	5500	14	13.3	257	1
5	5500	15	17.2	249	1
6	5500	13	11.4	243	1
7	5500	16	14.9	438	1
8	5500	16	16.8	220	0
9	5500	16	17	413	1
10	5500	13	15.5	457	1
11	5490	13	16.5	335	1
12	5490	12	16.9	451	1
13	5490	16	11.2	296	1
14	5490	13	19.5	367	1
15	5490	16	11.3	229	0
16	5490	14	18.9	483	1
17	5490	16	12.7	228	1
18	5490	15	11.2	403	0
19	5490	13	16.2	424	1
20	5490	16	12.2	203	1
21	5510	14	13.5	237	1
22	5510	16	11.8	457	1
23	5510	14	19	461	1
24	5510	14	19.8	233	1
25	5510	12	18.4	459	0
26	5510	15	17.6	442	1
27	5510	13	19.3	245	0
28	5510	16	20	245	1
29	5510	13	15.8	206	1
30	5510	14	18.9	423	1
Detection Percentage: 83.3 % (>60%)					

Table-5 Radar Type 5 Statistical Performance

Trial #	Fc (MHz)	Detection (1:yes; 0:no)
1	5500	1
2	5500	1
3	5500	1
4	5500	1
5	5500	1
6	5500	1
7	5500	1
8	5500	1
9	5500	1
10	5500	1
11	5496.8	1
12	5494.3	1
13	5495.9	1
14	5496.3	1
15	5495.1	1
16	5495.9	0
17	5496.8	1
18	5496.8	1
19	5497.1	0
20	5494.8	1
21	5502.1	1
22	5502.5	1
23	5504.9	1
24	5502.9	1
25	5504.1	1
26	5506.5	1
27	5504.1	1
28	5506.1	1
29	5505.7	1
30	5504.5	1
Detection Percentage: 93.3 % (>80%)		

Bin5 Statistics 1

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	10	79.3	1559		0.300197	1
1	2	10	96.1	1582		2.235583	
2	2	10	75.1	1572		2.679578	
3	2	10	98.6	1765		4.235612	
4	2	10	76.2	1712		5.517676	
5	3	10	78.2	1683	1882	6.808712	
6	3	10	64.3	1516	1446	7.420743	
7	2	10	66.5	1356		9.123918	
8	2	10	64.6	1988		10.648477	
9	2	10	94.4	1057		10.982167	

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	8	78.9	1187		0.15318	1
1	2	8	86.4	1263		1.003452	
2	3	8	86.1	1116	1014	1.351674	
3	3	8	61.8	1351	1036	1.836673	
4	2	8	92.9	1490		2.887537	
5	2	8	79.8	1017		3.173825	
6	2	8	64	1832		3.616374	
7	3	8	98	1730	1828	4.791813	
8	3	8	72.6	1361	1423	5.180834	
9	3	8	61.7	1795	1201	5.836319	
10	2	8	88	1882		6.454415	
11	3	8	91.5	1250	1932	6.603857	
12	2	8	57.3	1409		7.759129	
13	1	8	61.4			8.276595	
14	1	8	92.2			8.816977	
15	2	8	97.5	1016		9.38958	
16	3	8	59.5	1742	1076	9.707114	
17	1	8	56.4			10.496595	
18	1	8	70			10.906621	
19	2	8	61.6	1185		11.49691	

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	6	53.2	1033		0.721152	1
1	1	6	60.1			1.676608	
2	2	6	51.2	1865		2.513095	
3	3	6	67.6	1882	1818	3.676393	
4	1	6	69.6			3.926646	
5	2	6	79.1	1168		4.955849	
6	3	6	96.6	1162	1616	5.719943	
7	1	6	89.6			6.506687	
8	2	6	91.1	1810		8.300244	
9	2	6	68.9	1677		9.202419	
10	3	6	95.9	1371	1762	9.63055	
11	3	6	70.7	1891	1106	10.576881	
12	3	6	67.7	1221	1272	11.805653	

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	5	73.4	1257		0.514667	1
1	1	5	67.5			1.418326	
2	3	5	58.2	1416	1733	2.521297	
3	1	5	80.7			3.32069	
4	1	5	75.7			3.907382	
5	3	5	78.6	1780	1355	4.599973	
6	1	5	51.6			5.321707	
7	2	5	76	1071		6.345657	
8	1	5	91.7			7.019944	
9	1	5	58			7.92742	
10	2	5	59.8	1383		8.800047	
11	2	5	69.8	1509		10.008588	
12	1	5	94.8			10.431159	
13	3	5	69.5	1005	1263	11.451842	

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	62.5	1164	1702	0.046552	1
1	2	12	96.2	1680		1.485999	
2	3	12	62.3	1354	1449	2.082424	
3	2	12	87.9	1972		2.958541	
4	2	12	57.4	1615		3.732062	
5	3	12	64.9	1490	1828	4.16258	
6	1	12	52.2			5.143093	
7	2	12	61.3	1703		5.683795	
8	2	12	78.4	1856		6.530259	
9	2	12	68.8	1326		7.43258	
10	2	12	50.6	1550		7.997147	
11	1	12	54.2			8.683688	
12	2	12	62.5	1178		9.017512	
13	2	12	72.8	1187		10.260405	
14	2	12	88.7	1075		10.933706	
15	2	12	69.8	1979		11.841659	

Bin5 Statistics 6

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	7	79.1	1700		0.426824	1
1	2	7	64.8	1593		1.040956	
2	2	7	98	1989		1.760968	
3	1	7	59.8			2.435661	
4	3	7	61.1	1997	1654	2.837302	
5	1	7	95.8			3.914845	
6	1	7	53.4			4.645946	
7	2	7	54.7	1894		5.112642	
8	2	7	95.3	1033		6.177374	
9	1	7	58.3			6.91532	
10	1	7	62.6			7.487655	
11	2	7	71.4	1424		8.279984	
12	2	7	57.1	1532		9.091421	
13	3	7	70.8	1797	1862	9.301021	
14	1	7	80.3			9.908203	
15	1	7	59.1			10.628707	
16	3	7	99.6	1828	1281	11.296415	

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	8	86.3			1.130541	1
1	3	8	87.4	1125	1492	1.238715	
2	3	8	84.1	1901	1739	2.828954	
3	3	8	61.6	1632	1615	4.388706	
4	2	8	69	1566		5.528235	
5	1	8	88.4			6.202713	
6	1	8	88.7			8.201926	
7	1	8	88.9			8.512754	
8	2	8	98.8	1168		10.75532	
9	3	8	89.5	1084	1618	11.801402	

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	75.8	1763		0.167895	1
1	2	6	76.9	1966		1.20256	
2	3	6	61.5	1547	1742	2.247827	
3	2	6	54.1	1353		2.56327	
4	2	6	59.1	1519		3.765734	
5	2	6	67.1	1430		4.623874	
6	1	6	67.5			5.533696	
7	1	6	69.5			6.147619	
8	3	6	86.1	1922	1385	7.061439	
9	2	6	93.3	1820		7.877584	
10	1	6	51.6			8.099969	
11	2	6	99.3	1982		8.94395	
12	2	6	96.1	1743		9.843563	
13	2	6	59.1	1566		10.550815	
14	2	6	52.2	1936		11.53895	

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	13	68.7	1055		0.42319	1
1	2	13	50.9	1709		1.231074	
2	2	13	69.1	1903		1.82415	
3	2	13	86.5	1129		2.36102	
4	2	13	96	1656		3.694343	
5	1	13	92			4.425456	
6	2	13	66.4	1956		5.200324	
7	3	13	76.7	1315	1515	5.88648	
8	2	13	71	1005		6.577036	
9	3	13	84.9	1203	1785	7.444235	
10	3	13	84.4	1915	1243	8.136128	
11	1	13	64.2			8.423053	
12	2	13	81.4	1305		9.297483	
13	2	13	75.8	1984		9.812226	
14	2	13	53.2	1913		11.19099	
15	2	13	64.5	1256		11.549065	

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	82	1422		1.181367	1
1	2	7	70.4	1186		2.216365	
2	3	7	90	1738	1166	3.007672	
3	3	7	91.7	1708	1368	4.699601	
4	3	7	80.3	1730	1388	5.964015	
5	2	7	95.2	1706		7.727228	
6	2	7	95.3	1634		8.921231	
7	3	7	88.8	1604	1941	9.991728	
8	3	7	57	1996	1101	10.91774	

Bin5 Statistics 11

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	14	52.8			0.599938	
1	3	14	88.5	1924	1846	0.803669	
2	2	14	85.9	1153		2.058634	
3	1	14	72.8			2.812227	
4	2	14	56.3	1637		3.465988	
5	3	14	58.7	1115	1654	4.135341	
6	2	14	76.5	1064		4.73044	
7	1	14	89.8			5.622019	
8	1	14	89.1			6.347317	1
9	2	14	66.4	1601		7.011627	
10	2	14	64	1504		7.417374	
11	2	14	92.7	1922		8.293504	
12	2	14	53.7	1876		8.842698	
13	2	14	84.2	1670		9.571911	
14	3	14	94.2	1264	1372	10.385778	
15	2	14	69.7	1347		10.715449	
16	1	14	61.3			11.29791	

Bin5 Statistics 12

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	8	53	1134	1874	0.637376	
1	2	8	91.4	1547		1.508191	
2	2	8	98.1	1136		3.2758	
3	2	8	64.4	1520		5.138383	
4	1	8	53.6			6.62231	1
5	3	8	53.5	1186	1108	7.076839	
6	1	8	95			8.222749	
7	2	8	80.3	1959		9.655421	
8	2	8	58	1045		11.10685	

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	67	1335	1127	0.174779	1
1	3	12	66.4	1294	1898	0.954084	
2	1	12	62.5			2.222651	
3	2	12	63.4	1851		2.269869	
4	2	12	95.9	1202		3.578161	
5	1	12	83.2			4.185324	
6	2	12	96.4	1692		4.841747	
7	2	12	58.4	1443		5.624039	
8	1	12	55.3			6.096767	
9	2	12	68.5	1663		7.30851	
10	2	12	83.1	1899		7.999378	
11	2	12	60.7	1616		8.626122	
12	2	12	85.2	1011		9.073459	
13	3	12	51.8	1596	1782	10.209728	
14	1	12	54.7			11.241872	
15	2	12	51.6	1392		11.509857	

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	13	67.6	1494	1777	0.391527	1
1	2	13	69.5	1006		1.356355	
2	3	13	70.8	1843	1545	3.277552	
3	2	13	90.8	1809		4.615971	
4	2	13	84.8	1440		5.794361	
5	2	13	92.4	1182		6.573708	
6	2	13	91	1992		8.017224	
7	2	13	76.8	1339		9.046222	
8	2	13	87	1166		10.071065	
9	2	13	85.5	1588		11.130125	

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	10	96	1135	1767	0.608161	
1	2	10	69.6	1400		0.729146	
2	2	10	99.6	1295		1.474554	
3	2	10	74.4	1218		2.361639	
4	2	10	73.1	1264		3.014707	
5	3	10	64.4	1368	1402	4.000798	
6	1	10	58.6			4.437219	
7	2	10	75.1	1630		5.585343	
8	2	10	87	1837		6.103577	1
9	1	10	91			6.829502	
10	2	10	69.5	1865		7.759453	
11	3	10	92.8	1563	1680	8.088288	
12	3	10	58.8	1606	1951	8.479469	
13	3	10	71.3	1374	1778	9.263895	
14	2	10	55.7	1119		10.061294	
15	2	10	93.6	1587		10.789718	
16	3	10	74.7	1794	1970	11.852535	

Bin5 Statistics 16

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	12	83.3	1510		0.558797	
1	2	12	71	1230		1.4286	
2	2	12	92.9	1006		2.851837	
3	1	12	83.9			3.492712	
4	1	12	98.5			4.896268	
5	2	12	60	1096		6.278191	0
6	3	12	79.5	1101	1752	7.040863	
7	2	12	58.4	1529		8.183525	
8	2	12	84.3	1080		9.047463	
9	2	12	98.8	1422		10.685182	
10	2	12	57.5	1869		11.730855	

Bin5 Statistics 17

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	14	99.4			0.00858	1
1	2	14	60.5	1992		0.808079	
2	2	14	66.4	1989		2.241484	
3	2	14	76.8	1604		2.353643	
4	2	14	64.3	1112		3.414823	
5	1	14	89.2			4.32981	
6	2	14	93.6	1870		4.760183	
7	2	14	65.2	1572		5.937936	
8	2	14	77.4	1800		6.506079	
9	2	14	67.3	1249		7.348449	
10	3	14	97.1	1873	1667	7.729625	
11	2	14	68.9	1775		8.399642	
12	1	14	92.6			9.053389	
13	2	14	65.5	1772		9.904356	
14	3	14	62	1653	1881	11.11805	
15	2	14	61.4	1095		11.920083	

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	14	55.8	1978		0.442454	1
1	1	14	76.4			1.282719	
2	3	14	95.2	1139	1867	1.550776	
3	1	14	61.9			2.293137	
4	1	14	72.3			3.390816	
5	2	14	96.1	1325		4.12458	
6	1	14	74.5			4.39451	
7	2	14	75.5	1768		5.037762	
8	2	14	97.2	1995		6.18973	
9	1	14	56.6			6.6956	
10	1	14	54.9			7.099521	
11	2	14	99.5	1797		7.823236	
12	2	14	96.2	1855		8.582088	
13	2	14	64.8	1961		9.483602	
14	3	14	65.8	1735	1403	10.404909	
15	1	14	95			11.179225	
16	1	14	70.2			11.634795	

Bin5 Statistics 19

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	15	89.6			0.080402	
1	1	15	97.1			1.022208	
2	1	15	92.6			1.731022	
3	3	15	80.7	1822	1937	2.053519	
4	1	15	78.4			3.000356	
5	2	15	73.7	1314		3.488129	
6	2	15	59.5	1328		3.945266	
7	2	15	72.4	1612		4.756066	
8	2	15	54.3	1035		5.241647	
9	2	15	50.5	1801		5.846718	0
10	3	15	98.5	1303	1512	6.333097	
11	1	15	85.7			7.04736	
12	1	15	82.7			7.778859	
13	1	15	50.1			8.578229	
14	2	15	55.6	1825		8.949562	
15	2	15	94.5	1751		9.888582	
16	1	15	61.7			10.34291	
17	1	15	68			10.857736	
18	2	15	67.8	1597		11.807919	

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	9	78.6			0.616675	1
1	1	9	81			1.133602	
2	1	9	61.7			1.660262	
3	2	9	91.6	1193		2.260009	
4	3	9	93.7	1484	1339	3.367748	
5	1	9	61.4			3.998898	
6	2	9	54.5	1445		4.821012	
7	2	9	81.2	1815		5.902227	
8	3	9	50.8	1359	1220	6.338286	
9	3	9	99.8	1339	1676	7.240086	
10	1	9	52.2			7.864876	
11	3	9	50.9	1634	1739	8.400023	
12	2	9	50.9	1892		9.059681	
13	3	9	62.6	1577	1538	9.757167	
14	3	9	67.7	1058	1796	11.127287	
15	2	9	73	1178		11.710457	

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	64.6	1686	1385	0.024257	1
1	2	17	51.8	1172		1.401437	
2	1	17	70.4			2.288297	
3	1	17	58.7			3.597822	
4	2	17	51.4	1358		4.502185	
5	2	17	60.8	1646		5.026452	
6	2	17	87.6	1817		5.865014	
7	2	17	50.3	1920		6.694154	
8	1	17	52.6			8.158247	
9	2	17	57.2	1786		8.35981	
10	1	17	61.5			9.646493	
11	1	17	74.3			10.218523	
12	2	17	52.5	1339		11.42415	

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	16	64.2	1731	1745	0.433779	
1	2	16	65.4	1372		0.837097	
2	1	16	93			1.81015	
3	2	16	95.7	1523		2.19188	
4	2	16	79	1050		2.974251	
5	2	16	67.9	1862		3.242574	
6	2	16	91.9	1896		4.296195	
7	1	16	89.7			4.832273	
8	3	16	89.5	1837	1810	5.348621	
9	2	16	78.5	1281		5.747147	1
10	3	16	55	1760	1168	6.456037	
11	2	16	58.3	1311		7.430225	
12	2	16	86.5	1519		7.604544	
13	2	16	69	1532		8.822754	
14	1	16	90.5			9.160117	
15	2	16	57.2	1279		10.054533	
16	2	16	98.4	1647		10.115773	
17	1	16	87.8			11.050399	
18	3	16	95.7	1663	1757	11.755893	

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	62.6			0.578942	
1	1	10	75			1.086969	
2	2	10	83.3	1078		2.029422	
3	2	10	91	1170		2.672022	
4	2	10	64.7	1176		2.935062	
5	2	10	61	1690		3.770997	
6	2	10	70.3	1902		4.889777	
7	1	10	55.7			5.381562	
8	3	10	77	1615	1455	6.001544	1
9	2	10	67.8	1632		6.732386	
10	2	10	95	1161		7.190163	
11	2	10	80	1602		7.849226	
12	2	10	77.9	1209		8.991339	
13	1	10	53.9			9.429064	
14	1	10	62.7			10.251657	
15	3	10	89.1	1173	1839	10.777674	
16	2	10	56.3	1420		11.537497	

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	15	75.9	1465	1041	0.224949	1
1	2	15	51.9	1280		1.009314	
2	2	15	60.4	1301		2.097037	
3	3	15	87.2	1548	1927	2.2166	
4	1	15	64.7			3.231977	
5	3	15	66.1	1626	1502	3.703225	
6	2	15	95	1108		4.670386	
7	3	15	70.3	1720	1157	5.190084	
8	1	15	59.4			5.823054	
9	1	15	51.5			6.920743	
10	2	15	50.4	1918		7.293177	
11	1	15	98.9			7.797633	
12	2	15	86.9	1283		8.684276	
13	3	15	93.5	1884	1883	9.561451	
14	2	15	63.9	1573		9.915007	
15	1	15	72.4			10.591297	
16	3	15	90.9	1872	1290	11.452754	

Bin5 Statistics 25

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	12	99.4	1713		0.24959	
1	1	12	55.7			1.191596	
2	1	12	100			2.060607	
3	2	12	55.1	1755		2.622529	
4	2	12	64.7	1214		3.123102	
5	3	12	61.5	1209	1675	4.004623	
6	2	12	71.3	1865		4.775771	
7	3	12	96.4	1944	1068	5.394962	
8	2	12	60.3	1739		6.338915	1
9	2	12	80.6	1388		6.805122	
10	1	12	92.5			7.071923	
11	2	12	60.2	1927		7.979747	
12	2	12	68.6	1292		8.541004	
13	2	12	77.8	1984		9.212525	
14	2	12	83.3	1714		10.086481	
15	1	12	53.7			10.897398	
16	3	12	53.2	1687	1386	11.529353	

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	6	61.8			0.507723	
1	3	6	84.5	1896	1918	1.110327	
2	2	6	80.6	1761		2.220322	
3	2	6	61.4	1804		3.291465	
4	2	6	98.6	1213		3.829608	
5	2	6	95.2	1560		4.618085	
6	3	6	51	1272	1265	5.918427	
7	2	6	64.8	1681		6.081836	1
8	2	6	78	1951		7.249294	
9	3	6	70.6	1023	1761	8.301527	
10	3	6	94	1222	1112	9.405607	
11	1	6	79			9.495153	
12	3	6	68	1835	1714	10.565366	
13	1	6	88.3			11.763513	

Bin5 Statistics 27

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	12	80	1954		0.116196	1
1	3	12	55.8	1911	1727	1.541785	
2	2	12	61.2	1261		2.212354	
3	1	12	96.8			3.986557	
4	2	12	80.7	1621		4.594328	
5	2	12	82.3	1319		5.749763	
6	3	12	87.2	1865	1821	6.250578	
7	2	12	99	1968		7.038155	
8	1	12	74.5			8.628051	
9	1	12	64.6			9.69186	
10	3	12	58	1369	1163	10.740946	
11	2	12	60.4	1158		11.81651	

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	62.6	1779		0.083235	1
1	1	7	64.3			0.931638	
2	2	7	50.8	1724		1.923024	
3	3	7	50.4	1059	1974	2.33311	
4	1	7	93.1			3.45286	
5	2	7	69.3	1441		4.121372	
6	2	7	98.2	1406		4.85922	
7	2	7	71.3	1961		5.387056	
8	1	7	67.1			5.773739	
9	2	7	98.2	1676		6.795782	
10	2	7	76.9	1004		7.429891	
11	2	7	62.1	1645		8.085128	
12	1	7	56.2			8.700289	
13	2	7	61.8	1402		9.247544	
14	1	7	73.6			10.35869	
15	3	7	69.2	1255	1901	11.218496	
16	3	7	93.5	1379	1437	11.718842	

Bin5 Statistics 29

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	8	60.5	1211	1721	0.202459	
1	2	8	72.3	1750		0.948135	
2	2	8	54.2	1757		2.422244	
3	2	8	70.6	1746		3.381005	
4	1	8	95.8			4.351904	
5	2	8	53.4	1138		5.310403	
6	1	8	52.7			5.896196	1
7	3	8	51.3	1474	1291	7.147565	
8	3	8	83.4	1870	1889	8.117552	
9	3	8	60.6	1785	1221	9.203792	
10	3	8	72.7	1809	1557	9.723453	
11	1	8	52.7			10.711236	
12	3	8	90.9	1048	1142	11.731338	

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	11	86.6	1922		0.369984	
1	1	11	91.1			1.218118	
2	3	11	56.9	1998	1906	1.642893	
3	1	11	50.7			2.491653	
4	2	11	55.3	1843		3.269595	
5	3	11	70.4	1111	1937	4.414685	
6	3	11	85.1	1027	1410	5.156503	
7	1	11	84.3			5.292053	
8	2	11	95	1193		6.728218	1
9	2	11	52.2	1956		6.849635	
10	2	11	61.4	1050		8.061018	
11	2	11	88.7	1947		8.662033	
12	2	11	89.7	1997		9.7374	
13	3	11	86.7	1941	1354	10.068604	
14	2	11	54.6	1269		10.537716	
15	1	11	60			11.893787	

Table-6 Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)	Hopping Sequence
1	5500	9	1	333	1	5436.0, 5488.0, 5449.0, 5626.0, 5438.0, 5462.0, 5499.0, 5338.0, 5594.0, 5710.0, 5526.0, 5255.0, 5696.0, 5700.0, 5326.0, 5522.0, 5414.0, 5572.0, 5400.0, 5356.0, 5415.0, 5463.0, 5566.0, 5420.0, 5501.0, 5508.0, 5571.0, 5412.0, 5722.0, 5609.0, 5267.0, 5277.0, 5703.0, 5576.0, 5428.0, 5713.0, 5649.0, 5679.0, 5426.0, 5392.0, 5457.0, 5674.0, 5263.0, 5528.0, 5691.0, 5482.0, 5474.0, 5540.0, 5288.0, 5444.0, 5692.0, 5366.0, 5306.0, 5498.0, 5491.0, 5683.0, 5407.0, 5663.0, 5442.0, 5647.0, 5460.0, 5274.0, 5432.0, 5411.0, 5390.0, 5671.0, 5380.0, 5618.0, 5377.0, 5719.0, 5437.0, 5319.0, 5403.0, 5489.0, 5687.0, 5627.0, 5645.0, 5358.0, 5302.0, 5334.0, 5688.0, 5479.0, 5260.0, 5321.0, 5425.0, 5536.0, 5686.0, 5353.0, 5487.0, 5507.0, 5363.0, 5673.0, 5538.0, 5638.0, 5509.0, 5354.0, 5493.0, 5490.0, 5389.0, 5276.0 (number of hits: 7)
2	5500	9	1	333	1	5694.0, 5638.0, 5374.0, 5354.0, 5695.0, 5277.0, 5350.0, 5543.0, 5595.0, 5614.0, 5490.0, 5672.0, 5470.0, 5403.0, 5551.0, 5590.0, 5631.0, 5624.0, 5487.0, 5668.0, 5533.0, 5508.0, 5408.0, 5542.0, 5504.0, 5452.0, 5511.0, 5619.0, 5534.0, 5285.0, 5318.0, 5584.0, 5701.0, 5558.0, 5691.0, 5327.0, 5526.0, 5720.0, 5474.0, 5390.0, 5612.0, 5545.0, 5676.0, 5722.0, 5630.0, 5325.0, 5702.0, 5662.0, 5426.0, 5571.0, 5724.0, 5596.0, 5602.0, 5330.0, 5335.0, 5284.0, 5661.0, 5484.0, 5598.0, 5525.0, 5338.0, 5315.0, 5492.0, 5607.0, 5379.0, 5617.0, 5347.0, 5389.0, 5367.0, 5340.0, 5660.0, 5685.0, 5603.0, 5398.0, 5324.0, 5256.0, 5421.0, 5675.0, 5418.0, 5604.0, 5380.0, 5500.0, 5255.0, 5461.0, 5652.0, 5331.0, 5501.0, 5654.0, 5259.0, 5462.0, 5583.0, 5712.0, 5679.0, 5634.0, 5412.0, 5528.0, 5503.0, 5621.0, 5360.0, 5477.0 (number of hits: 6)
3	5500	9	1	333	1	5435.0, 5551.0, 5341.0, 5723.0, 5586.0, 5637.0, 5528.0, 5628.0, 5666.0, 5497.0, 5622.0, 5512.0, 5450.0, 5282.0, 5543.0, 5597.0, 5680.0, 5649.0, 5469.0, 5669.0, 5378.0, 5537.0, 5626.0, 5671.0, 5530.0, 5691.0, 5270.0, 5411.0, 5700.0, 5647.0, 5706.0, 5555.0, 5631.0, 5476.0, 5277.0, 5523.0, 5615.0, 5392.0, 5256.0, 5385.0, 5437.0, 5375.0, 5293.0, 5521.0, 5509.0, 5458.0, 5658.0, 5656.0, 5388.0, 5448.0, 5342.0, 5500.0, 5322.0, 5614.0, 5308.0, 5439.0, 5667.0, 5664.0, 5572.0, 5395.0,

						5668.0, 5283.0, 5472.0, 5372.0, 5534.0, 5598.0, 5578.0, 5643.0, 5605.0, 5544.0, 5466.0, 5532.0, 5538.0, 5507.0, 5315.0, 5305.0, 5638.0, 5513.0, 5433.0, 5612.0, 5404.0, 5624.0, 5452.0, 5519.0, 5594.0, 5681.0, 5708.0, 5402.0, 5705.0, 5679.0, 5361.0, 5616.0, 5576.0, 5280.0, 5541.0, 5710.0, 5619.0, 5254.0, 5334.0, 5359.0 (number of hits: 3)
4	5500	9	1	333	1	5654.0, 5575.0, 5413.0, 5273.0, 5373.0, 5466.0, 5317.0, 5658.0, 5556.0, 5313.0, 5368.0, 5465.0, 5361.0, 5261.0, 5489.0, 5297.0, 5305.0, 5680.0, 5308.0, 5309.0, 5566.0, 5617.0, 5501.0, 5673.0, 5551.0, 5357.0, 5651.0, 5320.0, 5263.0, 5554.0, 5266.0, 5383.0, 5312.0, 5689.0, 5353.0, 5255.0, 5601.0, 5442.0, 5610.0, 5262.0, 5423.0, 5441.0, 5608.0, 5488.0, 5329.0, 5562.0, 5415.0, 5288.0, 5280.0, 5564.0, 5594.0, 5571.0, 5646.0, 5486.0, 5420.0, 5485.0, 5474.0, 5369.0, 5333.0, 5325.0, 5611.0, 5547.0, 5529.0, 5596.0, 5253.0, 5688.0, 5295.0, 5299.0, 5624.0, 5521.0, 5666.0, 5569.0, 5362.0, 5645.0, 5542.0, 5468.0, 5443.0, 5359.0, 5630.0, 5709.0, 5332.0, 5694.0, 5518.0, 5461.0, 5339.0, 5298.0, 5674.0, 5531.0, 5591.0, 5582.0, 5708.0, 5717.0, 5464.0, 5509.0, 5460.0, 5479.0, 5698.0, 5661.0, 5632.0, 5291.0 (number of hits: 1)
5	5500	9	1	333	1	5558.0, 5417.0, 5538.0, 5494.0, 5449.0, 5378.0, 5710.0, 5294.0, 5675.0, 5497.0, 5402.0, 5470.0, 5435.0, 5439.0, 5416.0, 5613.0, 5381.0, 5484.0, 5635.0, 5601.0, 5293.0, 5379.0, 5516.0, 5330.0, 5720.0, 5521.0, 5447.0, 5685.0, 5367.0, 5669.0, 5304.0, 5535.0, 5440.0, 5270.0, 5413.0, 5679.0, 5646.0, 5349.0, 5702.0, 5632.0, 5574.0, 5364.0, 5492.0, 5260.0, 5391.0, 5650.0, 5282.0, 5481.0, 5338.0, 5701.0, 5571.0, 5469.0, 5366.0, 5719.0, 5406.0, 5433.0, 5393.0, 5565.0, 5612.0, 5703.0, 5314.0, 5355.0, 5524.0, 5648.0, 5332.0, 5359.0, 5259.0, 5622.0, 5662.0, 5272.0, 5557.0, 5712.0, 5489.0, 5424.0, 5573.0, 5513.0, 5512.0, 5284.0, 5686.0, 5507.0, 5576.0, 5281.0, 5252.0, 5595.0, 5467.0, 5683.0, 5511.0, 5545.0, 5420.0, 5670.0, 5452.0, 5509.0, 5365.0, 5529.0, 5408.0, 5667.0, 5533.0, 5427.0, 5600.0, 5321.0 (number of hits: 4)
6	5500	9	1	333	1	5410.0, 5277.0, 5523.0, 5544.0, 5480.0, 5487.0, 5562.0, 5360.0, 5278.0, 5496.0, 5331.0, 5572.0, 5409.0, 5547.0, 5542.0, 5372.0, 5313.0, 5518.0, 5538.0, 5588.0, 5414.0, 5502.0, 5561.0, 5435.0, 5264.0, 5655.0, 5285.0, 5517.0, 5723.0, 5627.0, 5292.0, 5281.0, 5603.0, 5606.0, 5296.0, 5718.0, 5504.0, 5712.0, 5644.0, 5434.0,

						5252.0, 5595.0, 5401.0, 5338.0, 5306.0, 5462.0, 5613.0, 5384.0, 5347.0, 5348.0, 5628.0, 5332.0, 5311.0, 5387.0, 5701.0, 5260.0, 5383.0, 5585.0, 5463.0, 5337.0, 5716.0, 5631.0, 5545.0, 5620.0, 5481.0, 5693.0, 5461.0, 5355.0, 5626.0, 5632.0, 5685.0, 5488.0, 5466.0, 5592.0, 5703.0, 5629.0, 5458.0, 5250.0, 5625.0, 5546.0, 5503.0, 5420.0, 5621.0, 5377.0, 5580.0, 5366.0, 5690.0, 5392.0, 5352.0, 5509.0, 5342.0, 5289.0, 5604.0, 5443.0, 5329.0, 5428.0, 5450.0, 5499.0, 5295.0, 5654.0 (number of hits: 5)
7	5500	9	1	333	1	5519.0, 5317.0, 5696.0, 5274.0, 5716.0, 5394.0, 5413.0, 5643.0, 5605.0, 5501.0, 5723.0, 5576.0, 5374.0, 5573.0, 5345.0, 5470.0, 5571.0, 5484.0, 5562.0, 5717.0, 5494.0, 5451.0, 5343.0, 5583.0, 5411.0, 5566.0, 5672.0, 5424.0, 5649.0, 5660.0, 5633.0, 5290.0, 5715.0, 5338.0, 5620.0, 5410.0, 5435.0, 5575.0, 5622.0, 5563.0, 5420.0, 5608.0, 5448.0, 5430.0, 5433.0, 5458.0, 5520.0, 5276.0, 5305.0, 5407.0, 5292.0, 5267.0, 5434.0, 5527.0, 5412.0, 5474.0, 5266.0, 5309.0, 5346.0, 5603.0, 5680.0, 5286.0, 5320.0, 5281.0, 5530.0, 5610.0, 5302.0, 5577.0, 5314.0, 5639.0, 5301.0, 5363.0, 5517.0, 5495.0, 5673.0, 5695.0, 5467.0, 5271.0, 5659.0, 5400.0, 5298.0, 5632.0, 5445.0, 5588.0, 5637.0, 5476.0, 5516.0, 5366.0, 5368.0, 5507.0, 5522.0, 5480.0, 5668.0, 5395.0, 5574.0, 5721.0, 5406.0, 5550.0, 5627.0, 5367.0 (number of hits: 4)
8	5500	9	1	333	1	5699.0, 5330.0, 5412.0, 5588.0, 5395.0, 5682.0, 5680.0, 5469.0, 5555.0, 5637.0, 5410.0, 5432.0, 5307.0, 5300.0, 5572.0, 5279.0, 5666.0, 5275.0, 5675.0, 5504.0, 5562.0, 5630.0, 5717.0, 5335.0, 5321.0, 5456.0, 5664.0, 5604.0, 5418.0, 5299.0, 5510.0, 5537.0, 5582.0, 5693.0, 5334.0, 5578.0, 5298.0, 5628.0, 5614.0, 5324.0, 5532.0, 5280.0, 5302.0, 5282.0, 5522.0, 5312.0, 5516.0, 5488.0, 5645.0, 5443.0, 5534.0, 5398.0, 5360.0, 5337.0, 5256.0, 5576.0, 5560.0, 5409.0, 5719.0, 5654.0, 5451.0, 5425.0, 5536.0, 5722.0, 5314.0, 5364.0, 5633.0, 5427.0, 5481.0, 5286.0, 5329.0, 5289.0, 5397.0, 5553.0, 5550.0, 5579.0, 5342.0, 5347.0, 5475.0, 5568.0, 5260.0, 5463.0, 5341.0, 5349.0, 5653.0, 5450.0, 5497.0, 5327.0, 5527.0, 5332.0, 5478.0, 5708.0, 5644.0, 5461.0, 5569.0, 5373.0, 5464.0, 5356.0, 5540.0, 5660.0 (number of hits: 2)
9	5500	9	1	333	1	5484.0, 5629.0, 5428.0, 5506.0, 5633.0, 5602.0, 5422.0, 5525.0, 5454.0, 5452.0, 5537.0, 5409.0, 5647.0, 5698.0, 5283.0, 5665.0, 5459.0, 5630.0, 5545.0, 5587.0,

						5298.0, 5351.0, 5316.0, 5310.0, 5724.0, 5505.0, 5400.0, 5567.0, 5385.0, 5326.0, 5679.0, 5434.0, 5424.0, 5313.0, 5509.0, 5606.0, 5646.0, 5279.0, 5346.0, 5533.0, 5374.0, 5584.0, 5315.0, 5462.0, 5407.0, 5456.0, 5674.0, 5636.0, 5717.0, 5380.0, 5671.0, 5281.0, 5489.0, 5714.0, 5308.0, 5378.0, 5285.0, 5497.0, 5394.0, 5253.0, 5680.0, 5288.0, 5282.0, 5250.0, 5563.0, 5628.0, 5549.0, 5638.0, 5559.0, 5395.0, 5611.0, 5658.0, 5398.0, 5560.0, 5623.0, 5495.0, 5389.0, 5534.0, 5697.0, 5265.0, 5476.0, 5403.0, 5691.0, 5275.0, 5624.0, 5289.0, 5705.0, 5475.0, 5278.0, 5311.0, 5661.0, 5348.0, 5269.0, 5599.0, 5451.0, 5461.0, 5420.0, 5649.0, 5535.0, 5651.0 (number of hits: 4)
10	5500	9	1	333	1	5415.0, 5584.0, 5327.0, 5392.0, 5348.0, 5307.0, 5700.0, 5376.0, 5542.0, 5624.0, 5254.0, 5611.0, 5334.0, 5715.0, 5271.0, 5543.0, 5481.0, 5688.0, 5347.0, 5414.0, 5540.0, 5606.0, 5276.0, 5556.0, 5326.0, 5412.0, 5563.0, 5393.0, 5630.0, 5433.0, 5267.0, 5507.0, 5292.0, 5473.0, 5531.0, 5693.0, 5288.0, 5364.0, 5437.0, 5571.0, 5600.0, 5406.0, 5695.0, 5679.0, 5672.0, 5328.0, 5354.0, 5339.0, 5355.0, 5453.0, 5429.0, 5287.0, 5293.0, 5669.0, 5250.0, 5308.0, 5273.0, 5362.0, 5593.0, 5377.0, 5581.0, 5343.0, 5683.0, 5618.0, 5661.0, 5445.0, 5562.0, 5548.0, 5514.0, 5614.0, 5632.0, 5559.0, 5722.0, 5300.0, 5461.0, 5717.0, 5719.0, 5599.0, 5589.0, 5505.0, 5265.0, 5560.0, 5264.0, 5662.0, 5656.0, 5404.0, 5510.0, 5426.0, 5319.0, 5681.0, 5369.0, 5405.0, 5413.0, 5325.0, 5486.0, 5389.0, 5335.0, 5491.0, 5345.0, 5675.0 (number of hits: 3)
11	5491	9	1	333	1	5693.0, 5606.0, 5519.0, 5412.0, 5295.0, 5565.0, 5555.0, 5673.0, 5419.0, 5251.0, 5656.0, 5443.0, 5486.0, 5302.0, 5458.0, 5586.0, 5567.0, 5688.0, 5505.0, 5364.0, 5425.0, 5654.0, 5270.0, 5561.0, 5479.0, 5376.0, 5721.0, 5255.0, 5407.0, 5454.0, 5372.0, 5552.0, 5627.0, 5612.0, 5624.0, 5405.0, 5317.0, 5404.0, 5285.0, 5413.0, 5433.0, 5523.0, 5422.0, 5500.0, 5288.0, 5535.0, 5529.0, 5475.0, 5559.0, 5410.0, 5590.0, 5399.0, 5680.0, 5334.0, 5378.0, 5300.0, 5304.0, 5718.0, 5554.0, 5388.0, 5337.0, 5618.0, 5450.0, 5493.0, 5340.0, 5456.0, 5585.0, 5580.0, 5541.0, 5426.0, 5667.0, 5258.0, 5312.0, 5600.0, 5250.0, 5652.0, 5568.0, 5478.0, 5437.0, 5464.0, 5582.0, 5278.0, 5695.0, 5266.0, 5271.0, 5665.0, 5368.0, 5711.0, 5526.0, 5644.0, 5361.0, 5637.0, 5712.0, 5439.0, 5542.0, 5327.0, 5349.0, 5393.0, 5384.0, 5462.0 (number of hits: 2)

12	5491	9	1	333	1	5593.0, 5253.0, 5677.0, 5693.0, 5283.0, 5656.0, 5443.0, 5559.0, 5579.0, 5424.0, 5413.0, 5585.0, 5600.0, 5532.0, 5560.0, 5357.0, 5482.0, 5320.0, 5274.0, 5499.0, 5273.0, 5278.0, 5566.0, 5638.0, 5297.0, 5613.0, 5453.0, 5498.0, 5628.0, 5365.0, 5484.0, 5584.0, 5572.0, 5428.0, 5310.0, 5716.0, 5704.0, 5481.0, 5282.0, 5372.0, 5317.0, 5645.0, 5520.0, 5589.0, 5533.0, 5565.0, 5279.0, 5294.0, 5421.0, 5393.0, 5663.0, 5687.0, 5304.0, 5293.0, 5503.0, 5471.0, 5490.0, 5556.0, 5652.0, 5457.0, 5427.0, 5389.0, 5350.0, 5313.0, 5388.0, 5430.0, 5713.0, 5598.0, 5272.0, 5407.0, 5441.0, 5321.0, 5332.0, 5502.0, 5467.0, 5376.0, 5508.0, 5564.0, 5557.0, 5601.0, 5281.0, 5314.0, 5379.0, 5576.0, 5525.0, 5479.0, 5394.0, 5336.0, 5475.0, 5429.0, 5382.0, 5434.0, 5463.0, 5447.0, 5696.0, 5435.0, 5701.0, 5669.0, 5501.0, 5582.0 (number of hits: 5)
13	5491	9	1	333	1	5513.0, 5519.0, 5284.0, 5638.0, 5584.0, 5643.0, 5488.0, 5618.0, 5474.0, 5635.0, 5464.0, 5414.0, 5317.0, 5363.0, 5548.0, 5428.0, 5343.0, 5523.0, 5532.0, 5356.0, 5332.0, 5434.0, 5473.0, 5683.0, 5586.0, 5486.0, 5454.0, 5255.0, 5274.0, 5354.0, 5268.0, 5277.0, 5365.0, 5325.0, 5639.0, 5448.0, 5282.0, 5583.0, 5587.0, 5549.0, 5468.0, 5330.0, 5477.0, 5642.0, 5423.0, 5437.0, 5533.0, 5662.0, 5389.0, 5655.0, 5424.0, 5580.0, 5667.0, 5641.0, 5319.0, 5444.0, 5535.0, 5648.0, 5650.0, 5429.0, 5511.0, 5293.0, 5328.0, 5502.0, 5604.0, 5470.0, 5690.0, 5558.0, 5310.0, 5546.0, 5338.0, 5507.0, 5569.0, 5373.0, 5543.0, 5693.0, 5554.0, 5707.0, 5506.0, 5388.0, 5673.0, 5402.0, 5392.0, 5394.0, 5692.0, 5412.0, 5320.0, 5321.0, 5594.0, 5278.0, 5697.0, 5269.0, 5689.0, 5516.0, 5624.0, 5416.0, 5518.0, 5393.0, 5413.0, 5380.0 (number of hits: 2)
14	5491	9	1	333	1	5626.0, 5612.0, 5564.0, 5554.0, 5448.0, 5646.0, 5667.0, 5588.0, 5427.0, 5294.0, 5641.0, 5273.0, 5257.0, 5310.0, 5274.0, 5352.0, 5337.0, 5373.0, 5593.0, 5267.0, 5582.0, 5356.0, 5286.0, 5432.0, 5621.0, 5363.0, 5345.0, 5433.0, 5474.0, 5606.0, 5512.0, 5517.0, 5640.0, 5532.0, 5503.0, 5653.0, 5393.0, 5519.0, 5477.0, 5449.0, 5511.0, 5484.0, 5701.0, 5340.0, 5403.0, 5668.0, 5663.0, 5411.0, 5278.0, 5291.0, 5636.0, 5253.0, 5547.0, 5619.0, 5305.0, 5290.0, 5469.0, 5592.0, 5401.0, 5255.0, 5327.0, 5714.0, 5581.0, 5422.0, 5509.0, 5306.0, 5459.0, 5650.0, 5591.0, 5378.0, 5341.0, 5414.0, 5647.0, 5400.0, 5251.0, 5670.0, 5510.0, 5483.0, 5439.0, 5495.0, 5283.0, 5268.0, 5299.0, 5346.0, 5281.0,

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15	5491	9	1	333	1	5340.0, 5273.0, 5393.0, 5544.0, 5454.0, 5682.0, 5345.0, 5350.0, 5324.0, 5492.0, 5562.0, 5251.0, 5410.0, 5327.0, 5379.0, 5261.0, 5312.0, 5399.0, 5694.0, 5579.0, 5559.0, 5300.0, 5401.0, 5478.0, 5430.0, 5626.0, 5504.0, 5466.0, 5269.0, 5654.0, 5342.0, 5664.0, 5437.0, 5575.0, 5424.0, 5571.0, 5462.0, 5675.0, 5490.0, 5267.0, 5667.0, 5672.0, 5507.0, 5723.0, 5521.0, 5351.0, 5381.0, 5552.0, 5532.0, 5696.0, 5535.0, 5344.0, 5255.0, 5475.0, 5294.0, 5276.0, 5441.0, 5555.0, 5354.0, 5372.0, 5561.0, 5506.0, 5493.0, 5394.0, 5700.0, 5481.0, 5416.0, 5353.0, 5608.0, 5525.0, 5471.0, 5334.0, 5272.0, 5315.0, 5297.0, 5488.0, 5415.0, 5482.0, 5302.0, 5262.0, 5701.0, 5384.0, 5346.0, 5291.0, 5459.0, 5450.0, 5377.0, 5593.0, 5448.0, 5444.0, 5439.0, 5403.0, 5711.0, 5280.0, 5665.0, 5304.0, 5693.0, 5577.0, 5427.0, 5510.0 (number of hits: 5)
16	5491	9	1	333	1	5550.0, 5638.0, 5402.0, 5519.0, 5665.0, 5708.0, 5397.0, 5398.0, 5350.0, 5262.0, 5328.0, 5629.0, 5667.0, 5261.0, 5676.0, 5432.0, 5567.0, 5498.0, 5379.0, 5501.0, 5449.0, 5285.0, 5614.0, 5658.0, 5256.0, 5373.0, 5574.0, 5387.0, 5573.0, 5648.0, 5613.0, 5652.0, 5454.0, 5478.0, 5557.0, 5308.0, 5684.0, 5302.0, 5323.0, 5457.0, 5700.0, 5520.0, 5452.0, 5418.0, 5264.0, 5471.0, 5689.0, 5591.0, 5293.0, 5348.0, 5417.0, 5686.0, 5460.0, 5589.0, 5442.0, 5301.0, 5283.0, 5569.0, 5621.0, 5542.0, 5356.0, 5664.0, 5250.0, 5385.0, 5382.0, 5309.0, 5485.0, 5517.0, 5297.0, 5503.0, 5312.0, 5331.0, 5536.0, 5281.0, 5461.0, 5252.0, 5358.0, 5370.0, 5422.0, 5493.0, 5399.0, 5571.0, 5556.0, 5367.0, 5426.0, 5321.0, 5287.0, 5304.0, 5266.0, 5294.0, 5324.0, 5479.0, 5531.0, 5653.0, 5481.0, 5580.0, 5545.0, 5351.0, 5368.0, 5325.0 (number of hits: 3)
17	5491	9	1	333	1	5287.0, 5325.0, 5648.0, 5713.0, 5279.0, 5530.0, 5688.0, 5415.0, 5622.0, 5549.0, 5709.0, 5352.0, 5412.0, 5324.0, 5331.0, 5479.0, 5303.0, 5694.0, 5683.0, 5601.0, 5500.0, 5346.0, 5715.0, 5625.0, 5609.0, 5292.0, 5564.0, 5524.0, 5653.0, 5456.0, 5704.0, 5451.0, 5356.0, 5515.0, 5654.0, 5584.0, 5499.0, 5719.0, 5525.0, 5575.0, 5716.0, 5639.0, 5438.0, 5708.0, 5362.0, 5393.0, 5408.0, 5554.0, 5589.0, 5424.0, 5519.0, 5441.0, 5506.0, 5342.0, 5269.0, 5581.0, 5686.0, 5417.0, 5493.0, 5440.0, 5452.0, 5391.0, 5409.0, 5692.0, 5450.0,

						5606.0, 5443.0, 5647.0, 5666.0, 5392.0, 5349.0, 5297.0, 5267.0, 5604.0, 5364.0, 5665.0, 5615.0, 5359.0, 5312.0, 5275.0, 5572.0, 5717.0, 5630.0, 5259.0, 5551.0, 5566.0, 5255.0, 5336.0, 5504.0, 5459.0, 5680.0, 5401.0, 5291.0, 5320.0, 5430.0, 5278.0, 5512.0, 5629.0, 5670.0, 5435.0 (number of hits: 2)
18	5491	9	1	333	1	5327.0, 5251.0, 5518.0, 5300.0, 5463.0, 5394.0, 5315.0, 5365.0, 5628.0, 5706.0, 5377.0, 5486.0, 5527.0, 5485.0, 5674.0, 5322.0, 5334.0, 5430.0, 5458.0, 5721.0, 5409.0, 5686.0, 5719.0, 5603.0, 5497.0, 5482.0, 5519.0, 5679.0, 5388.0, 5542.0, 5454.0, 5537.0, 5559.0, 5632.0, 5578.0, 5597.0, 5462.0, 5421.0, 5548.0, 5252.0, 5573.0, 5517.0, 5700.0, 5310.0, 5605.0, 5320.0, 5433.0, 5524.0, 5626.0, 5405.0, 5504.0, 5396.0, 5690.0, 5336.0, 5538.0, 5656.0, 5314.0, 5698.0, 5525.0, 5386.0, 5391.0, 5359.0, 5253.0, 5316.0, 5339.0, 5417.0, 5338.0, 5471.0, 5449.0, 5549.0, 5263.0, 5269.0, 5469.0, 5584.0, 5355.0, 5557.0, 5591.0, 5708.0, 5467.0, 5501.0, 5453.0, 5638.0, 5437.0, 5366.0, 5481.0, 5651.0, 5436.0, 5693.0, 5658.0, 5531.0, 5650.0, 5540.0, 5452.0, 5611.0, 5516.0, 5372.0, 5435.0, 5677.0, 5564.0, 5440.0 (number of hits: 4)
19	5491	9	1	333	1	5536.0, 5703.0, 5484.0, 5299.0, 5403.0, 5719.0, 5670.0, 5623.0, 5649.0, 5634.0, 5541.0, 5353.0, 5397.0, 5374.0, 5520.0, 5338.0, 5503.0, 5617.0, 5609.0, 5663.0, 5627.0, 5579.0, 5488.0, 5595.0, 5384.0, 5683.0, 5543.0, 5549.0, 5286.0, 5584.0, 5431.0, 5498.0, 5714.0, 5522.0, 5674.0, 5443.0, 5587.0, 5491.0, 5296.0, 5583.0, 5538.0, 5556.0, 5691.0, 5517.0, 5598.0, 5378.0, 5723.0, 5334.0, 5283.0, 5531.0, 5688.0, 5602.0, 5474.0, 5496.0, 5692.0, 5294.0, 5472.0, 5467.0, 5401.0, 5686.0, 5578.0, 5359.0, 5282.0, 5411.0, 5596.0, 5398.0, 5436.0, 5659.0, 5445.0, 5660.0, 5274.0, 5327.0, 5432.0, 5278.0, 5442.0, 5357.0, 5582.0, 5405.0, 5417.0, 5379.0, 5600.0, 5611.0, 5570.0, 5565.0, 5409.0, 5622.0, 5574.0, 5590.0, 5414.0, 5335.0, 5440.0, 5601.0, 5550.0, 5332.0, 5662.0, 5280.0, 5464.0, 5528.0, 5687.0, 5680.0 (number of hits: 5)
20	5491	9	1	333	1	5261.0, 5490.0, 5432.0, 5419.0, 5469.0, 5661.0, 5277.0, 5460.0, 5313.0, 5504.0, 5667.0, 5483.0, 5386.0, 5323.0, 5539.0, 5657.0, 5351.0, 5282.0, 5333.0, 5528.0, 5319.0, 5515.0, 5609.0, 5361.0, 5638.0, 5329.0, 5310.0, 5489.0, 5579.0, 5613.0, 5417.0, 5306.0, 5535.0, 5393.0, 5668.0, 5278.0, 5550.0, 5626.0, 5619.0, 5492.0, 5288.0, 5416.0, 5611.0, 5633.0, 5589.0,

						5574.0, 5280.0, 5629.0, 5251.0, 5400.0, 5715.0, 5628.0, 5454.0, 5603.0, 5370.0, 5723.0, 5586.0, 5526.0, 5547.0, 5537.0, 5722.0, 5331.0, 5660.0, 5724.0, 5621.0, 5648.0, 5701.0, 5467.0, 5488.0, 5500.0, 5523.0, 5493.0, 5618.0, 5511.0, 5372.0, 5465.0, 5570.0, 5445.0, 5519.0, 5275.0, 5693.0, 5476.0, 5387.0, 5276.0, 5450.0, 5544.0, 5260.0, 5352.0, 5604.0, 5591.0, 5496.0, 5456.0, 5414.0, 5397.0, 5709.0, 5646.0, 5322.0, 5631.0, 5274.0, 5517.0 (number of hits: 7)
21	5509	9	1	333	1	5650.0, 5579.0, 5520.0, 5461.0, 5682.0, 5548.0, 5550.0, 5560.0, 5501.0, 5655.0, 5361.0, 5296.0, 5558.0, 5649.0, 5467.0, 5259.0, 5590.0, 5302.0, 5309.0, 5683.0, 5695.0, 5668.0, 5335.0, 5293.0, 5498.0, 5617.0, 5319.0, 5504.0, 5704.0, 5659.0, 5454.0, 5449.0, 5427.0, 5459.0, 5714.0, 5536.0, 5556.0, 5593.0, 5611.0, 5313.0, 5527.0, 5577.0, 5270.0, 5300.0, 5499.0, 5546.0, 5534.0, 5257.0, 5306.0, 5660.0, 5538.0, 5571.0, 5371.0, 5263.0, 5694.0, 5415.0, 5385.0, 5378.0, 5528.0, 5357.0, 5653.0, 5535.0, 5707.0, 5696.0, 5509.0, 5629.0, 5553.0, 5443.0, 5373.0, 5423.0, 5697.0, 5613.0, 5338.0, 5275.0, 5722.0, 5675.0, 5587.0, 5633.0, 5700.0, 5517.0, 5562.0, 5627.0, 5597.0, 5395.0, 5516.0, 5330.0, 5465.0, 5512.0, 5375.0, 5508.0, 5701.0, 5362.0, 5324.0, 5383.0, 5290.0, 5347.0, 5400.0, 5610.0, 5648.0, 5674.0 (number of hits: 7)
22	5509	9	1	333	1	5450.0, 5598.0, 5553.0, 5485.0, 5400.0, 5363.0, 5534.0, 5552.0, 5629.0, 5451.0, 5484.0, 5430.0, 5462.0, 5525.0, 5566.0, 5254.0, 5597.0, 5278.0, 5445.0, 5367.0, 5348.0, 5551.0, 5478.0, 5673.0, 5610.0, 5632.0, 5391.0, 5559.0, 5470.0, 5467.0, 5626.0, 5359.0, 5285.0, 5311.0, 5409.0, 5456.0, 5495.0, 5609.0, 5256.0, 5643.0, 5403.0, 5700.0, 5429.0, 5675.0, 5558.0, 5394.0, 5284.0, 5318.0, 5663.0, 5438.0, 5544.0, 5603.0, 5303.0, 5503.0, 5604.0, 5674.0, 5648.0, 5314.0, 5347.0, 5509.0, 5418.0, 5646.0, 5677.0, 5487.0, 5360.0, 5433.0, 5518.0, 5627.0, 5458.0, 5469.0, 5705.0, 5710.0, 5667.0, 5719.0, 5720.0, 5479.0, 5692.0, 5510.0, 5330.0, 5461.0, 5345.0, 5504.0, 5447.0, 5590.0, 5652.0, 5413.0, 5437.0, 5638.0, 5579.0, 5615.0, 5530.0, 5555.0, 5565.0, 5442.0, 5425.0, 5593.0, 5457.0, 5393.0, 5505.0, 5636.0 (number of hits: 5)
23	5509	9	1	333	1	5450.0, 5664.0, 5256.0, 5515.0, 5523.0, 5471.0, 5261.0, 5476.0, 5711.0, 5372.0, 5294.0, 5272.0, 5274.0, 5299.0, 5605.0, 5699.0, 5392.0, 5649.0, 5594.0, 5284.0, 5296.0, 5543.0, 5469.0, 5309.0, 5633.0,

						5683.0, 5416.0, 5364.0, 5441.0, 5681.0, 5443.0, 5546.0, 5632.0, 5713.0, 5307.0, 5347.0, 5501.0, 5516.0, 5424.0, 5609.0, 5601.0, 5577.0, 5607.0, 5259.0, 5314.0, 5719.0, 5710.0, 5608.0, 5288.0, 5351.0, 5386.0, 5283.0, 5518.0, 5552.0, 5334.0, 5390.0, 5533.0, 5663.0, 5573.0, 5473.0, 5336.0, 5444.0, 5701.0, 5362.0, 5625.0, 5519.0, 5660.0, 5481.0, 5397.0, 5377.0, 5619.0, 5563.0, 5339.0, 5268.0, 5627.0, 5415.0, 5645.0, 5429.0, 5559.0, 5286.0, 5724.0, 5359.0, 5290.0, 5614.0, 5668.0, 5524.0, 5340.0, 5262.0, 5529.0, 5485.0, 5318.0, 5679.0, 5295.0, 5324.0, 5628.0, 5685.0, 5622.0, 5419.0, 5365.0, 5452.0 (number of hits: 3)
24	5509	9	1	333	1	5652.0, 5392.0, 5634.0, 5367.0, 5440.0, 5555.0, 5424.0, 5618.0, 5550.0, 5455.0, 5358.0, 5393.0, 5394.0, 5631.0, 5294.0, 5389.0, 5419.0, 5516.0, 5596.0, 5380.0, 5312.0, 5578.0, 5451.0, 5323.0, 5369.0, 5581.0, 5601.0, 5400.0, 5284.0, 5280.0, 5307.0, 5388.0, 5467.0, 5718.0, 5453.0, 5273.0, 5576.0, 5693.0, 5337.0, 5488.0, 5653.0, 5470.0, 5465.0, 5687.0, 5405.0, 5425.0, 5487.0, 5641.0, 5541.0, 5289.0, 5299.0, 5460.0, 5603.0, 5437.0, 5428.0, 5518.0, 5310.0, 5593.0, 5318.0, 5628.0, 5607.0, 5376.0, 5665.0, 5679.0, 5494.0, 5303.0, 5413.0, 5659.0, 5272.0, 5448.0, 5620.0, 5542.0, 5270.0, 5363.0, 5590.0, 5274.0, 5416.0, 5500.0, 5449.0, 5577.0, 5595.0, 5525.0, 5426.0, 5325.0, 5354.0, 5338.0, 5651.0, 5643.0, 5579.0, 5637.0, 5614.0, 5524.0, 5685.0, 5403.0, 5454.0, 5715.0, 5282.0, 5332.0, 5522.0, 5362.0 (number of hits: 2)
25	5509	9	1	333	1	5430.0, 5686.0, 5469.0, 5376.0, 5286.0, 5505.0, 5461.0, 5287.0, 5534.0, 5263.0, 5424.0, 5495.0, 5259.0, 5360.0, 5599.0, 5329.0, 5497.0, 5293.0, 5515.0, 5550.0, 5620.0, 5254.0, 5500.0, 5694.0, 5680.0, 5639.0, 5677.0, 5608.0, 5426.0, 5678.0, 5436.0, 5625.0, 5355.0, 5714.0, 5551.0, 5651.0, 5516.0, 5297.0, 5619.0, 5276.0, 5290.0, 5409.0, 5281.0, 5675.0, 5644.0, 5433.0, 5437.0, 5339.0, 5330.0, 5596.0, 5373.0, 5313.0, 5273.0, 5637.0, 5388.0, 5337.0, 5343.0, 5574.0, 5486.0, 5493.0, 5661.0, 5592.0, 5529.0, 5344.0, 5487.0, 5412.0, 5688.0, 5362.0, 5312.0, 5304.0, 5333.0, 5256.0, 5645.0, 5453.0, 5666.0, 5578.0, 5623.0, 5671.0, 5676.0, 5690.0, 5392.0, 5262.0, 5636.0, 5315.0, 5517.0, 5695.0, 5341.0, 5566.0, 5466.0, 5657.0, 5366.0, 5365.0, 5491.0, 5685.0, 5655.0, 5425.0, 5602.0, 5660.0, 5448.0, 5571.0 (number of hits: 5)
26	5509	9	1	333	1	5627.0, 5406.0, 5486.0, 5337.0, 5311.0,

						5596.0, 5302.0, 5619.0, 5286.0, 5648.0, 5313.0, 5299.0, 5387.0, 5466.0, 5606.0, 5480.0, 5694.0, 5375.0, 5380.0, 5661.0, 5603.0, 5483.0, 5254.0, 5484.0, 5404.0, 5405.0, 5704.0, 5499.0, 5579.0, 5371.0, 5640.0, 5461.0, 5616.0, 5278.0, 5690.0, 5634.0, 5318.0, 5532.0, 5529.0, 5689.0, 5633.0, 5271.0, 5328.0, 5708.0, 5517.0, 5679.0, 5304.0, 5344.0, 5682.0, 5352.0, 5472.0, 5252.0, 5563.0, 5356.0, 5283.0, 5369.0, 5684.0, 5675.0, 5428.0, 5586.0, 5384.0, 5411.0, 5628.0, 5349.0, 5590.0, 5462.0, 5531.0, 5496.0, 5454.0, 5320.0, 5272.0, 5493.0, 5273.0, 5654.0, 5385.0, 5545.0, 5482.0, 5329.0, 5386.0, 5325.0, 5308.0, 5612.0, 5609.0, 5426.0, 5266.0, 5600.0, 5340.0, 5310.0, 5401.0, 5460.0, 5478.0, 5287.0, 5620.0, 5569.0, 5459.0, 5644.0, 5625.0, 5535.0, 5662.0, 5458.0 (number of hits: 1)
27	5509	9	1	333	1	5657.0, 5542.0, 5515.0, 5445.0, 5439.0, 5492.0, 5304.0, 5449.0, 5360.0, 5255.0, 5502.0, 5421.0, 5457.0, 5597.0, 5511.0, 5283.0, 5359.0, 5600.0, 5533.0, 5473.0, 5411.0, 5617.0, 5565.0, 5638.0, 5546.0, 5337.0, 5624.0, 5714.0, 5412.0, 5557.0, 5555.0, 5516.0, 5458.0, 5438.0, 5689.0, 5583.0, 5622.0, 5324.0, 5603.0, 5346.0, 5666.0, 5467.0, 5319.0, 5570.0, 5414.0, 5549.0, 5356.0, 5712.0, 5328.0, 5277.0, 5523.0, 5303.0, 5611.0, 5313.0, 5459.0, 5651.0, 5470.0, 5614.0, 5275.0, 5634.0, 5345.0, 5259.0, 5610.0, 5498.0, 5302.0, 5287.0, 5264.0, 5448.0, 5297.0, 5526.0, 5469.0, 5296.0, 5506.0, 5507.0, 5479.0, 5497.0, 5563.0, 5704.0, 5386.0, 5656.0, 5252.0, 5654.0, 5490.0, 5315.0, 5693.0, 5496.0, 5660.0, 5586.0, 5635.0, 5390.0, 5381.0, 5537.0, 5571.0, 5352.0, 5524.0, 5353.0, 5367.0, 5724.0, 5653.0, 5642.0 (number of hits: 6)
28	5509	9	1	333	1	5605.0, 5657.0, 5616.0, 5301.0, 5422.0, 5554.0, 5370.0, 5638.0, 5703.0, 5665.0, 5396.0, 5266.0, 5419.0, 5670.0, 5495.0, 5457.0, 5364.0, 5389.0, 5510.0, 5349.0, 5525.0, 5590.0, 5371.0, 5299.0, 5455.0, 5544.0, 5582.0, 5316.0, 5260.0, 5515.0, 5656.0, 5369.0, 5298.0, 5530.0, 5436.0, 5552.0, 5700.0, 5585.0, 5332.0, 5378.0, 5381.0, 5569.0, 5374.0, 5393.0, 5489.0, 5444.0, 5497.0, 5356.0, 5619.0, 5566.0, 5506.0, 5589.0, 5596.0, 5386.0, 5512.0, 5384.0, 5581.0, 5265.0, 5718.0, 5282.0, 5437.0, 5475.0, 5401.0, 5430.0, 5526.0, 5559.0, 5573.0, 5325.0, 5664.0, 5626.0, 5620.0, 5303.0, 5693.0, 5365.0, 5592.0, 5309.0, 5461.0, 5342.0, 5274.0, 5641.0, 5492.0, 5584.0, 5323.0, 5481.0, 5275.0, 5716.0, 5428.0, 5395.0, 5706.0, 5394.0,

						5288.0, 5518.0, 5636.0, 5685.0, 5698.0, 5306.0, 5529.0, 5327.0, 5281.0, 5690.0 (number of hits: 4)
29	5509	9	1	333	1	5342.0, 5257.0, 5459.0, 5316.0, 5667.0, 5606.0, 5486.0, 5307.0, 5634.0, 5683.0, 5283.0, 5537.0, 5423.0, 5593.0, 5274.0, 5291.0, 5701.0, 5703.0, 5658.0, 5664.0, 5514.0, 5511.0, 5504.0, 5421.0, 5259.0, 5350.0, 5628.0, 5337.0, 5676.0, 5451.0, 5620.0, 5724.0, 5286.0, 5505.0, 5644.0, 5513.0, 5650.0, 5415.0, 5522.0, 5565.0, 5523.0, 5541.0, 5466.0, 5458.0, 5646.0, 5367.0, 5558.0, 5509.0, 5464.0, 5470.0, 5465.0, 5652.0, 5515.0, 5405.0, 5263.0, 5540.0, 5716.0, 5401.0, 5579.0, 5512.0, 5695.0, 5699.0, 5600.0, 5721.0, 5433.0, 5383.0, 5449.0, 5355.0, 5690.0, 5300.0, 5480.0, 5328.0, 5273.0, 5396.0, 5456.0, 5353.0, 5582.0, 5288.0, 5454.0, 5553.0, 5485.0, 5258.0, 5643.0, 5343.0, 5266.0, 5700.0, 5404.0, 5566.0, 5521.0, 5389.0, 5461.0, 5619.0, 5501.0, 5418.0, 5605.0, 5319.0, 5381.0, 5603.0, 5443.0, 5673.0 (number of hits: 9)
30	5509	9	1	333	1	5423.0, 5444.0, 5613.0, 5650.0, 5555.0, 5338.0, 5303.0, 5547.0, 5354.0, 5384.0, 5602.0, 5652.0, 5359.0, 5300.0, 5636.0, 5632.0, 5657.0, 5368.0, 5708.0, 5575.0, 5718.0, 5340.0, 5455.0, 5418.0, 5674.0, 5479.0, 5699.0, 5541.0, 5645.0, 5500.0, 5329.0, 5382.0, 5690.0, 5534.0, 5250.0, 5715.0, 5343.0, 5603.0, 5281.0, 5506.0, 5620.0, 5722.0, 5265.0, 5625.0, 5717.0, 5601.0, 5311.0, 5646.0, 5481.0, 5452.0, 5473.0, 5678.0, 5442.0, 5266.0, 5454.0, 5253.0, 5585.0, 5429.0, 5262.0, 5517.0, 5448.0, 5509.0, 5411.0, 5532.0, 5702.0, 5390.0, 5475.0, 5434.0, 5631.0, 5377.0, 5643.0, 5443.0, 5549.0, 5546.0, 5716.0, 5686.0, 5364.0, 5275.0, 5682.0, 5290.0, 5400.0, 5721.0, 5596.0, 5353.0, 5567.0, 5598.0, 5437.0, 5573.0, 5523.0, 5486.0, 5552.0, 5280.0, 5536.0, 5630.0, 5348.0, 5483.0, 5472.0, 5525.0, 5450.0, 5405.0 (number of hits: 4)

5510 MHz, 40 MHz Bandwidth

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1A/1B	30	100 %	60%	Pass
Type 2	30	100 %	60%	Pass
Type 3	30	93.3 %	60%	Pass
Type 4	30	100 %	60%	Pass
Aggregate (Type1 to 4)	120	98.33 %	80%	Pass
Type 5	30	100 %	80%	Pass
Type 6	30	100 %	70%	Pass

Please refer to the following statistical tables:

5510 MHz, 40 MHz Bandwidth

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

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5510	89	1	598	1
2	5510	58	1	918	1
3	5510	67	1	798	1
4	5510	63	1	838	1
5	5510	68	1	778	1
6	5490	86	1	618	1
7	5490	81	1	658	1
8	5490	57	1	938	1
9	5490	92	1	578	1
10	5490	61	1	878	1
11	5530	62	1	858	1
12	5530	78	1	678	1
13	5530	18	1	3066	1
14	5530	95	1	558	1
15	5530	102	1	518	1
16	5510	19	1	2786	1
17	5510	22	1	2443	1
18	5510	26	1	2047	1
19	5510	19	1	2894	1
20	5510	20	1	2686	1
21	5490	19	1	2870	1
22	5490	91	1	586	1
23	5490	25	1	2146	1
24	5490	37	1	1445	1
25	5490	90	1	592	1
26	5530	48	1	1118	1
27	5530	28	1	1886	1
28	5530	51	1	1048	1
29	5530	28	1	1896	1
30	5530	65	1	817	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	23	1.2	194	1
2	5510	23	1.5	214	1
3	5510	27	2.6	159	1
4	5510	26	4.6	201	1
5	5510	25	2.9	189	1
6	5510	24	2.4	195	1
7	5510	24	2.1	170	1
8	5510	28	1.6	181	1
9	5510	23	2.5	185	1
10	5510	26	1.4	170	1
11	5490	28	5	159	1
12	5490	25	1.2	182	1
13	5490	28	1.5	184	1
14	5490	23	1.2	229	1
15	5490	23	3.7	182	1
16	5490	27	1	150	1
17	5490	29	4	202	1
18	5490	23	3.6	163	1
19	5490	24	1.7	175	1
20	5490	26	2	187	1
21	5530	28	4.8	218	1
22	5530	29	2.7	198	1
23	5530	24	2.4	166	1
24	5530	25	1.3	201	1
25	5530	27	2.7	174	1
26	5530	29	2.7	228	1
27	5530	23	3.9	174	1
28	5530	28	2.7	214	1
29	5530	29	1.2	228	1
30	5530	25	1.2	168	1
Detection Percentage: 100 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5510	17	8.1	251	1
2	5510	16	9.2	251	1
3	5510	16	6.8	467	1
4	5510	18	8.8	365	1
5	5510	18	9	275	1
6	5510	18	8.9	225	1
7	5510	16	9.3	431	1
8	5510	18	6.5	200	1
9	5510	18	7.5	469	1
10	5510	16	9.7	418	1
11	5490	16	9.5	219	1
12	5490	17	9.8	308	1
13	5490	16	6	386	1
14	5490	18	9.7	209	1
15	5490	16	9.4	479	1
16	5490	18	8.7	258	1
17	5490	18	7.2	235	1
18	5490	16	6.3	247	1
19	5490	17	6.1	212	1
20	5490	16	9.3	245	1
21	5530	17	8.2	444	0
22	5530	17	6.7	284	1
23	5530	18	6.1	274	1
24	5530	16	9.6	415	1
25	5530	18	9.3	392	1
26	5530	16	6.1	388	1
27	5530	18	8.6	483	0
28	5530	17	7.7	211	1
29	5530	17	9.9	275	1
30	5530	16	6.7	292	1
Detection Percentage: 93.3 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5510	15	15.1	345	1
2	5510	16	17.3	441	1
3	5510	16	19.5	386	1
4	5510	13	13.8	422	1
5	5510	14	18.9	464	1
6	5510	16	16.5	411	1
7	5510	13	11	242	1
8	5510	14	16.8	239	1
9	5510	15	11.4	235	1
10	5510	16	19.7	399	1
11	5490	15	12.3	464	1
12	5490	14	19	308	1
13	5490	12	19.4	465	1
14	5490	12	16.8	315	1
15	5490	15	19.6	262	1
16	5490	13	18.7	233	1
17	5490	16	13.3	415	1
18	5490	16	11.2	373	1
19	5490	16	18.2	431	1
20	5490	12	11.8	235	1
21	5530	16	15.2	430	1
22	5530	12	12.5	326	1
23	5530	13	17.9	362	1
24	5530	13	15.1	349	1
25	5530	13	14.8	280	1
26	5530	16	17.9	371	1
27	5530	12	17.6	316	1
28	5530	16	18.7	263	1
29	5530	16	12.7	226	1
30	5530	15	17.6	264	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	5494.7	1
12	5493.9	1
13	5495.9	1
14	5499.5	1
15	5497.9	1
16	5499.1	1
17	5493.9	1
18	5499.5	1
19	5495.9	1
20	5493.5	1
21	5521.3	1
22	5523.7	1
23	5522.9	1
24	5522.5	1
25	5521.7	1
26	5520.9	1
27	5521.3	1
28	5524.1	1
29	5523.7	1
30	5521.7	1
Detection Percentage: 100 % (>80%)		

Bin5 Statistics 1

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	11	56.5	1217		0.688287	1
1	2	11	72.1	1029		0.97975	
2	3	11	91.4	1255	1941	1.807104	
3	3	11	53.6	1246	1889	2.174252	
4	3	11	98.4	1650	1564	3.235607	
5	2	11	90.4	1541		3.751442	
6	2	11	67.5	1418		4.653286	
7	1	11	86.8			5.064767	
8	1	11	97.5			6.077703	
9	2	11	94.5	1063		7.019574	
10	1	11	99			7.090264	
11	2	11	59.5	1177		8.10965	
12	2	11	66.2	1886		8.648296	
13	1	11	79.1			9.550499	
14	2	11	90.3	1569		10.132806	
15	2	11	50.7	1932		11.056144	
16	2	11	77.8	1017		11.678181	

Bin5 Statistics 2

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	7	77.7			0.848185	1
1	2	7	53	1674		1.859266	
2	1	7	66.4			4.107062	
3	2	7	75	1505		5.327213	
4	3	7	68.5	1669	1777	7.140317	
5	2	7	96.9	1969		7.99508	
6	3	7	95.6	1291	1824	10.476248	
7	1	7	66.8			11.971049	

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	6	67	1295	1018	0.598067	1
1	1	6	72.4			1.206214	
2	2	6	70.4	1902		1.975365	
3	1	6	93.9			2.353983	
4	2	6	52.2	1246		3.164451	
5	3	6	53.4	1138	1076	3.555781	
6	1	6	87.2			4.234164	
7	1	6	66.6			4.793948	
8	2	6	53.9	1796		5.441655	
9	3	6	66.6	1052	1433	6.116563	
10	2	6	51.4	1000		7.255767	
11	2	6	92.3	1943		7.775324	
12	2	6	53.3	1805		8.426741	
13	2	6	94.4	1874		9.271594	
14	1	6	89.3			9.902855	
15	3	6	95.5	1037	1968	10.0431	
16	1	6	83.8			10.758704	
17	3	6	86.4	1170	1016	11.662439	

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	78.1			0.124984	1
1	1	10	63.8			1.495686	
2	2	10	68	1080		2.006148	
3	3	10	56.6	1844	1836	3.103233	
4	2	10	77.6	1921		3.661256	
5	2	10	84.4	1050		4.092321	
6	1	10	71.1			4.884317	
7	3	10	80.1	1727	1384	6.21581	
8	2	10	99.8	1628		7.054903	
9	3	10	80	1413	1181	7.378383	
10	2	10	72	1251		8.001156	
11	3	10	94	1473	1053	9.25565	
12	3	10	75.7	1793	1940	9.783249	
13	2	10	87.9	1794		10.696049	
14	1	10	77.1			11.512155	

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	51.7			0.422527	1
1	2	7	75.1	1963		2.033761	
2	2	7	64.9	1512		2.839243	
3	2	7	72.2	1453		3.973271	
4	2	7	59.4	1244		5.42118	
5	3	7	83.1	1281	1716	6.318395	
6	1	7	96.9			7.353814	
7	1	7	56.6			8.362167	
8	2	7	71.9	1413		9.407151	
9	3	7	52.3	1142	1754	10.027255	
10	2	7	57.2	1442		11.549937	

Bin5 Statistics 6

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	12	70	1342		0.720755	1
1	1	12	78.8			0.977014	
2	3	12	72.3	1147	1651	1.525411	
3	3	12	52.7	1164	1005	2.88518	
4	2	12	74.5	1666		3.02629	
5	3	12	54.2	1775	1700	4.479502	
6	2	12	98.6	1065		4.683519	
7	2	12	68.6	1346		5.829293	
8	2	12	95.8	1687		6.738354	
9	1	12	92.4			6.828239	
10	3	12	85.2	1535	1554	7.783586	
11	2	12	71.2	1084		8.582719	
12	2	12	63	1811		9.135734	
13	3	12	77.6	1260	1567	10.150382	
14	2	12	53.6	1159		10.937288	
15	2	12	72.9	1321		11.443171	

Bin5 Statistics 7

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	6	55.4	1927		0.319963	1
1	2	6	97.6	1119		0.969823	
2	1	6	73.9			2.357246	
3	2	6	72.7	1811		2.805383	
4	3	6	50.8	1412	1032	3.703455	
5	1	6	68.8			4.143729	
6	1	6	87.2			5.265833	
7	1	6	87.7			6.081683	
8	1	6	98.2			6.921316	
9	1	6	74.8			7.897601	
10	1	6	67.8			8.738796	
11	3	6	77.3	1099	1177	9.279149	
12	2	6	94.5	1654		10.320064	
13	3	6	72.1	1607	1768	10.427065	
14	2	6	80.7	1396		11.381799	

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	9	53.6	1539		0.418119	1
1	2	9	69.8	1377		1.198376	
2	1	9	60.1			1.621525	
3	2	9	67.3	1423		2.357413	
4	3	9	51.2	1137	1017	2.767898	
5	2	9	87.2	1801		3.912079	
6	3	9	80.2	1135	1461	4.026807	
7	2	9	95.4	1633		5.284511	
8	2	9	87.7	1657		5.729643	
9	2	9	90.6	1397		6.011097	
10	3	9	53.7	1608	1541	6.868938	
11	1	9	94.9			7.67073	
12	1	9	61.8			8.594974	
13	2	9	70.1	1685		9.281837	
14	2	9	93.4	1720		9.58363	
15	2	9	52.9	1486		10.421	
16	1	9	60.1			10.998191	
17	2	9	80.5	1350		11.454933	

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	72.8	1141		0.185488	1
1	2	9	63.9	1860		2.374751	
2	2	9	62.1	1867		3.921434	
3	2	9	70.1	1252		5.181205	
4	3	9	88.2	1545	1075	6.151295	
5	3	9	72.7	1039	1492	6.750863	
6	3	9	79.1	1815	1522	8.819157	
7	2	9	68.8	1306		10.201932	
8	1	9	66.9			11.732773	

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	82.3	1190		0.28172	1
1	3	7	77.7	1077	1662	1.063382	
2	3	7	90.9	1932	1680	1.602541	
3	3	7	60.6	1161	1538	1.925009	
4	3	7	70.4	1155	1202	2.978487	
5	3	7	72.5	1442	1211	3.051468	
6	3	7	65.2	1712	1274	3.874728	
7	3	7	93.7	1642	1280	4.42309	
8	3	7	54.4	1365	1501	5.16336	
9	2	7	70.6	1407		5.638406	
10	1	7	57.8			6.06361	
11	2	7	85.2	1022		7.088894	
12	2	7	73.5	1687		7.412687	
13	2	7	69.2	1846		7.845774	
14	2	7	55.7	1574		8.640174	
15	3	7	98.1	1027	1953	9.289026	
16	1	7	80.1			9.860337	
17	2	7	76.1	1670		10.417489	
18	2	7	90.8	1771		10.807693	
19	3	7	72.2	1534	1255	11.524224	

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	8	55.2			1.047275	1
1	2	8	83.9	1419		1.303855	
2	2	8	94.4	1555		3.187823	
3	1	8	59.2			3.731155	
4	3	8	51.9	1260	1157	5.188106	
5	2	8	71.1	1208		6.536749	
6	2	8	74.8	1071		7.082123	
7	1	8	94.1			8.218966	
8	2	8	70.4	1855		9.812009	
9	1	8	90.6			9.846134	
10	1	8	88.1			11.101987	

Bin5 Statistics 12

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	6	92.5			0.292239	1
1	2	6	62.9	1317		2.217379	
2	2	6	93.1	1256		2.989758	
3	1	6	73.5			3.891767	
4	2	6	78.2	1965		4.926832	
5	3	6	73.2	1445	1703	6.954628	
6	3	6	77.6	1956	1888	7.89525	
7	3	6	54.9	1329	1716	8.642504	
8	2	6	53.9	1380		10.346833	
9	3	6	64.5	1479	1564	11.948019	

Bin5 Statistics 13

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	11	71.8			1.012376	1
1	2	11	74.9	1815		1.739776	
2	2	11	69.6	1252		2.950447	
3	3	11	80.3	1881	1815	4.026808	
4	1	11	80.8			4.783066	
5	3	11	77	1493	1400	5.532361	
6	2	11	55.3	1821		6.974519	
7	1	11	93.7			8.649769	
8	3	11	67.7	1775	1846	9.730565	
9	2	11	55.9	1565		10.32495	
10	3	11	98.2	1996	1908	10.982448	

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	20	84.1	1250		0.390936	1
1	2	20	52.5	1681		0.867354	
2	2	20	88.9	1251		1.377206	
3	2	20	81.6	1620		2.140106	
4	1	20	57.5			2.447469	
5	1	20	97.6			3.344267	
6	1	20	95.5			3.765595	
7	2	20	77.5	1237		4.515771	
8	1	20	73			5.241999	
9	2	20	84.7	1095		5.480232	
10	2	20	51.9	1347		6.481728	
11	2	20	51.4	1889		6.700336	
12	2	20	87.3	1775		7.384571	
13	2	20	88.5	1789		8.074518	
14	1	20	66.9			8.541831	
15	2	20	87.6	1445		9.121149	
16	2	20	62	1921		10.173994	
17	3	20	53.3	1364	1416	10.549273	
18	1	20	56.4			10.823299	
19	2	20	59.7	1531		11.834982	

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	16	70.8	1124	1953	0.982555	1
1	2	16	70.7	1481		2.811693	
2	2	16	96.2	1722		4.450942	
3	3	16	75.1	1794	1498	5.042189	
4	2	16	54.6	1926		6.131405	
5	3	16	93	1576	1200	8.457117	
6	1	16	81.8			10.360967	
7	2	16	74	1121		11.15696	

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	80.7	1959		0.572617	1
1	2	19	95.1	1200		0.933666	
2	3	19	94.2	1955	1088	1.968993	
3	2	19	76.7	1163		2.884485	
4	2	19	97.9	1711		3.221595	
5	1	19	89.3			4.722983	
6	3	19	76	1953	1660	5.354522	
7	3	19	72.1	1052	1571	5.889869	
8	1	19	57.8			7.079989	
9	1	19	96.7			7.922501	
10	3	19	69	1593	1711	8.767406	
11	3	19	56	1246	1293	9.293988	
12	1	19	64.9			9.665843	
13	3	19	69.2	1452	1743	10.485131	
14	2	19	89.6	1757		11.386479	

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	6	52.5	1625	1131	0.136337	1
1	3	6	78.1	1421	1583	1.446929	
2	1	6	63.7			2.170072	
3	3	6	88.8	1168	1509	3.065663	
4	2	6	50.3	1389		3.554917	
5	1	6	77.9			4.534188	
6	3	6	100	1621	1610	5.276914	
7	1	6	86.6			6.581663	
8	1	6	70.6			7.656267	
9	2	6	55.9	1606		8.520095	
10	2	6	75.9	1352		9.104496	
11	2	6	97	1053		10.239808	
12	1	6	56.5			10.298556	
13	2	6	93.6	1007		11.337587	

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	20	95.4	1140		0.197582	1
1	1	20	51.1			1.302093	
2	1	20	89.4			1.492709	
3	2	20	66.8	1167		2.529733	
4	3	20	78.9	1737	1445	2.942198	
5	3	20	88.7	1313	1317	4.094557	
6	3	20	50.6	1333	1557	4.355731	
7	2	20	96.3	1008		5.518205	
8	1	20	60.7			5.673448	
9	2	20	94.6	1855		6.584024	
10	2	20	67.6	1074		7.316923	
11	3	20	87.7	1491	1777	7.98724	
12	1	20	94.5			8.493795	
13	2	20	55.5	1380		9.431674	
14	2	20	69.8	1107		10.212205	
15	2	20	80.7	1869		11.249818	
16	2	20	60.1	1226		11.565773	

Bin5 Statistics 19

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	11	91.2			0.230609	1
1	1	11	97.2			1.077878	
2	1	11	92.2			1.839133	
3	2	11	86.7	1154		2.733625	
4	2	11	83.2	1732		3.993844	
5	3	11	61.3	1210	1424	4.198838	
6	1	11	80.8			5.29462	
7	3	11	84.6	1138	1478	5.926138	
8	2	11	50.1	1244		7.033356	
9	2	11	93.4	1630		7.389834	
10	2	11	71.2	1234		8.745907	
11	3	11	82.9	1620	1317	8.946871	
12	1	11	56.5			9.641419	
13	3	11	68.4	1511	1643	10.463537	
14	3	11	89	1496	1152	11.413089	

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	61.8	1586		0.498582	1
1	3	5	80.3	1460	1473	1.197726	
2	2	5	63.8	1678		2.721418	
3	2	5	74.8	1993		3.249319	
4	2	5	74.2	1180		4.326237	
5	3	5	62.2	1822	1339	5.607612	
6	3	5	62.7	1088	1818	6.789423	
7	2	5	85	1840		7.140968	
8	1	5	83.6			8.110892	
9	3	5	70	1325	1155	9.463852	
10	2	5	62	1743		10.863879	
11	2	5	96.5	1979		11.664539	

Bin5 Statistics 21

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	18	63.9	1795	1673	0.899851	
1	2	18	99.8	1750		1.475767	
2	2	18	59.8	1594		2.184433	
3	2	18	75.5	1624		3.149958	
4	2	18	88.2	1503		4.348637	
5	2	18	94.6	1862		5.527043	
6	3	18	70.5	1409	1611	5.934074	1
7	2	18	70	1322		6.853329	
8	3	18	82.7	1745	1115	7.68603	
9	2	18	94	1447		8.871615	
10	2	18	50.7	1973		10.049611	
11	2	18	63.5	1351		10.419555	
12	2	18	60.9	1664		11.294252	

Bin5 Statistics 22

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	12	60.4			0.373921	
1	3	12	90.2	1035	1839	1.217892	
2	1	12	61.1			1.340684	
3	2	12	94.5	1785		2.189909	
4	1	12	92.1			3.276313	
5	2	12	84.6	1570		3.662547	
6	1	12	51.6			4.148067	
7	2	12	83.3	1624		5.328034	
8	3	12	71.6	1884	1564	5.910717	
9	3	12	87.5	1695	1435	6.42804	1
10	2	12	88.2	1674		6.715625	
11	2	12	97.1	1573		7.705693	
12	2	12	65.7	1195		8.512439	
13	2	12	54.9	1665		9.308362	
14	1	12	69.1			9.43415	
15	3	12	98.2	1610	1970	10.443596	
16	2	12	79.9	1289		10.758016	
17	3	12	98.3	1937	1249	11.471123	

Bin5 Statistics 23

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	14	88.8	1450		0.620226	
1	1	14	71.9			1.601393	
2	3	14	65.5	1672	1026	2.134447	
3	3	14	91	1456	1830	3.520095	
4	1	14	52			3.693964	
5	2	14	91.6	1405		5.121436	
6	1	14	50.8			5.871057	1
7	2	14	70.9	1237		6.60322	
8	2	14	70.6	1049		7.462502	
9	2	14	75.1	1332		8.334517	
10	3	14	94.3	1841	1900	9.551848	
11	3	14	68.4	1852	1577	10.554092	
12	2	14	55.1	1945		11.299727	

Bin5 Statistics 24

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	15	77.5	1183		0.122295	
1	2	15	60.5	1551		1.341242	
2	2	15	54.1	1835		2.566516	
3	1	15	85.5			3.164245	
4	2	15	81.4	1307		4.01859	
5	1	15	86.5			4.795558	
6	3	15	77.1	1241	1650	6.293358	1
7	3	15	64.5	1608	1289	6.508069	
8	2	15	77.2	1443		8.028909	
9	2	15	98.8	1362		9.146732	
10	3	15	58.4	1252	1329	9.536202	
11	3	15	68.8	1506	1881	10.828933	
12	2	15	75.9	1120		11.096967	

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	17	58.5			0.328543	1
1	2	17	88.3	1679		1.325615	
2	2	17	88.3	1584		1.782573	
3	1	17	65.2			2.819004	
4	3	17	82.6	1563	1569	3.727793	
5	2	17	50.9	1079		4.884293	
6	1	17	50.8			5.398789	
7	2	17	96.6	1884		6.327522	
8	3	17	57.1	1506	1422	7.302751	
9	2	17	75.4	1700		8.535387	
10	2	17	81.7	1534		9.282443	
11	3	17	74.3	1906	1039	10.250955	
12	2	17	79	1255		10.965089	
13	2	17	73	1336		11.701462	

Bin5 Statistics 26

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	19	99.6			0.831906	1
1	2	19	81	1108		1.631138	
2	1	19	84.4			3.900828	
3	1	19	95.1			4.621695	
4	2	19	86.1	1076		5.700867	
5	2	19	57.9	1660		7.889645	
6	1	19	71.1			8.546944	
7	2	19	72.2	1453		9.713187	
8	2	19	52.4	1517		11.916668	

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	88.6	1983	1466	0.804698	1
1	2	18	98	1673		1.651711	
2	2	18	54.5	1584		3.447872	
3	3	18	95.1	1745	1025	4.318197	
4	2	18	92	1496		6.324612	
5	2	18	50.8	1190		6.97454	
6	1	18	100			8.594206	
7	2	18	55.4	1368		10.541981	
8	3	18	51.8	1954	1706	10.721573	

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	11	73.9	1128		0.642491	1
1	2	11	52.3	1738		1.027654	
2	2	11	95.7	1275		1.984073	
3	2	11	82.4	1270		2.59324	
4	2	11	60.3	1346		3.414393	
5	1	11	81.2			4.271726	
6	2	11	82.9	1767		4.751197	
7	2	11	52.9	1127		5.502485	
8	1	11	61.2			6.453765	
9	2	11	67.5	1908		7.308567	
10	2	11	70.6	1604		7.705531	
11	3	11	53.2	1665	1655	8.82765	
12	2	11	69.8	1539		9.419508	
13	3	11	63.6	1884	1624	10.257552	
14	1	11	96.8			10.576239	
15	1	11	94.7			11.96366	

Bin5 Statistics 29

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	12	55.7			0.721859	
1	3	12	64.2	1054	1496	1.239934	
2	1	12	70.5			2.134194	
3	1	12	74.1			2.940478	
4	2	12	63.9	1248		3.830851	
5	2	12	80.5	1150		4.636057	
6	2	12	87.8	1713		4.950397	
7	2	12	68.6	1099		5.90748	1
8	2	12	61.5	1157		7.003524	
9	3	12	69.3	1261	1308	7.388432	
10	2	12	90.1	1019		8.696034	
11	3	12	79.2	1884	1034	9.154459	
12	2	12	53	1923		9.984299	
13	2	12	57.5	1890		11.179034	
14	3	12	65.8	1243	1896	11.732523	

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	78.9			0.776301	
1	2	17	69.4	1257		1.278745	
2	3	17	90.8	1615	1478	2.183517	
3	2	17	74.8	1811		3.649598	
4	2	17	87.9	1688		4.496741	
5	3	17	87.8	1516	1760	5.44204	1
6	2	17	69.5	1000		6.848783	
7	3	17	89	1941	1534	7.190376	
8	3	17	77.3	1977	1251	8.341746	
9	2	17	72.7	1790		9.979897	
10	1	17	53.1			10.244482	
11	1	17	100			11.315166	

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	5301.0, 5261.0, 5321.0, 5438.0, 5432.0, 5445.0, 5349.0, 5433.0, 5337.0, 5450.0, 5599.0, 5386.0, 5639.0, 5579.0, 5696.0, 5657.0, 5685.0, 5376.0, 5360.0, 5305.0, 5358.0, 5659.0, 5575.0, 5583.0, 5568.0, 5364.0, 5304.0, 5645.0, 5537.0, 5650.0, 5623.0, 5476.0, 5385.0, 5619.0, 5381.0, 5393.0, 5343.0, 5689.0, 5382.0, 5402.0, 5298.0, 5671.0, 5374.0, 5665.0, 5658.0, 5698.0, 5339.0, 5346.0, 5430.0, 5447.0, 5553.0, 5262.0, 5300.0, 5413.0, 5564.0, 5464.0, 5426.0, 5373.0, 5378.0, 5320.0, 5631.0, 5263.0, 5314.0, 5684.0, 5614.0, 5554.0, 5297.0, 5398.0, 5541.0, 5271.0, 5519.0, 5407.0, 5569.0, 5511.0, 5516.0, 5561.0, 5389.0, 5702.0, 5498.0, 5463.0, 5551.0, 5359.0, 5594.0, 5513.0, 5524.0, 5692.0, 5439.0, 5697.0, 5272.0, 5705.0, 5486.0, 5586.0, 5722.0, 5362.0, 5576.0, 5494.0, 5462.0, 5567.0, 5530.0, 5682.0 (number of hits: 7)
2	5510	9	1	333	1	5658.0, 5503.0, 5329.0, 5640.0, 5253.0, 5333.0, 5477.0, 5467.0, 5439.0, 5310.0, 5673.0, 5359.0, 5322.0, 5373.0, 5522.0, 5660.0, 5415.0, 5396.0, 5593.0, 5338.0, 5464.0, 5252.0, 5702.0, 5397.0, 5388.0, 5650.0, 5520.0, 5512.0, 5263.0, 5620.0, 5508.0, 5425.0, 5552.0, 5711.0, 5630.0, 5432.0, 5675.0, 5337.0, 5704.0, 5680.0, 5408.0, 5487.0, 5609.0, 5300.0, 5710.0, 5353.0, 5530.0, 5551.0, 5378.0, 5619.0, 5588.0, 5685.0, 5667.0, 5559.0, 5438.0, 5560.0, 5565.0, 5427.0, 5674.0, 5541.0, 5277.0, 5601.0, 5268.0, 5721.0, 5550.0, 5267.0, 5611.0, 5631.0, 5533.0, 5700.0, 5471.0, 5652.0, 5567.0, 5581.0, 5556.0, 5594.0, 5547.0, 5618.0, 5349.0, 5371.0, 5478.0, 5405.0, 5440.0, 5659.0, 5272.0, 5584.0, 5534.0, 5668.0, 5436.0, 5505.0, 5506.0, 5350.0, 5604.0, 5454.0, 5633.0, 5368.0, 5305.0, 5314.0, 5472.0, 5291.0 (number of hits: 7)
3	5510	9	1	333	1	5566.0, 5563.0, 5359.0, 5267.0, 5653.0, 5367.0, 5565.0, 5561.0, 5532.0, 5366.0, 5486.0, 5680.0, 5535.0, 5705.0, 5303.0, 5270.0, 5319.0, 5266.0, 5666.0, 5555.0, 5697.0, 5372.0, 5463.0, 5264.0, 5608.0, 5364.0, 5520.0, 5301.0, 5574.0, 5617.0, 5528.0, 5450.0, 5708.0, 5722.0, 5604.0, 5441.0, 5572.0, 5253.0, 5592.0, 5545.0, 5704.0, 5371.0, 5407.0, 5657.0, 5331.0, 5693.0, 5421.0, 5409.0, 5521.0, 5483.0, 5659.0, 5406.0, 5374.0, 5652.0, 5622.0, 5721.0, 5263.0, 5560.0, 5558.0, 5390.0,

						5291.0, 5392.0, 5332.0, 5335.0, 5577.0, 5472.0, 5476.0, 5269.0, 5643.0, 5647.0, 5449.0, 5578.0, 5384.0, 5446.0, 5304.0, 5282.0, 5396.0, 5460.0, 5500.0, 5256.0, 5294.0, 5688.0, 5317.0, 5459.0, 5546.0, 5425.0, 5623.0, 5428.0, 5438.0, 5442.0, 5552.0, 5650.0, 5348.0, 5461.0, 5453.0, 5496.0, 5469.0, 5345.0, 5452.0, 5556.0 (number of hits: 4)
4	5510	9	1	333	1	5371.0, 5681.0, 5284.0, 5709.0, 5653.0, 5687.0, 5570.0, 5414.0, 5482.0, 5286.0, 5644.0, 5288.0, 5624.0, 5392.0, 5436.0, 5564.0, 5265.0, 5708.0, 5690.0, 5625.0, 5423.0, 5422.0, 5388.0, 5641.0, 5257.0, 5533.0, 5677.0, 5695.0, 5328.0, 5350.0, 5715.0, 5491.0, 5289.0, 5521.0, 5398.0, 5342.0, 5454.0, 5263.0, 5280.0, 5287.0, 5503.0, 5536.0, 5477.0, 5440.0, 5466.0, 5600.0, 5386.0, 5635.0, 5276.0, 5531.0, 5526.0, 5527.0, 5664.0, 5480.0, 5546.0, 5409.0, 5279.0, 5541.0, 5407.0, 5685.0, 5538.0, 5347.0, 5591.0, 5610.0, 5455.0, 5419.0, 5569.0, 5313.0, 5380.0, 5396.0, 5468.0, 5539.0, 5673.0, 5294.0, 5306.0, 5534.0, 5584.0, 5582.0, 5293.0, 5556.0, 5338.0, 5716.0, 5712.0, 5575.0, 5360.0, 5470.0, 5471.0, 5318.0, 5621.0, 5495.0, 5406.0, 5499.0, 5488.0, 5344.0, 5389.0, 5606.0, 5460.0, 5302.0, 5456.0, 5703.0 (number of hits: 6)
5	5510	9	1	333	1	5552.0, 5575.0, 5355.0, 5518.0, 5579.0, 5536.0, 5267.0, 5294.0, 5539.0, 5431.0, 5400.0, 5281.0, 5253.0, 5643.0, 5598.0, 5380.0, 5589.0, 5432.0, 5497.0, 5530.0, 5569.0, 5484.0, 5254.0, 5334.0, 5344.0, 5502.0, 5296.0, 5399.0, 5596.0, 5474.0, 5370.0, 5711.0, 5568.0, 5263.0, 5336.0, 5717.0, 5271.0, 5430.0, 5567.0, 5328.0, 5714.0, 5300.0, 5558.0, 5719.0, 5467.0, 5493.0, 5305.0, 5366.0, 5590.0, 5505.0, 5494.0, 5527.0, 5436.0, 5402.0, 5577.0, 5443.0, 5712.0, 5326.0, 5678.0, 5453.0, 5549.0, 5373.0, 5492.0, 5489.0, 5378.0, 5606.0, 5454.0, 5403.0, 5576.0, 5394.0, 5356.0, 5483.0, 5692.0, 5325.0, 5427.0, 5307.0, 5275.0, 5544.0, 5459.0, 5439.0, 5437.0, 5524.0, 5676.0, 5668.0, 5369.0, 5468.0, 5279.0, 5452.0, 5695.0, 5651.0, 5630.0, 5645.0, 5306.0, 5423.0, 5316.0, 5498.0, 5670.0, 5555.0, 5556.0, 5543.0 (number of hits: 10)
6	5510	9	1	333	1	5629.0, 5442.0, 5421.0, 5483.0, 5658.0, 5713.0, 5301.0, 5342.0, 5477.0, 5700.0, 5433.0, 5479.0, 5303.0, 5317.0, 5542.0, 5369.0, 5711.0, 5615.0, 5443.0, 5502.0, 5381.0, 5722.0, 5652.0, 5661.0, 5515.0, 5634.0, 5595.0, 5517.0, 5374.0, 5340.0, 5720.0, 5716.0, 5320.0, 5257.0, 5645.0, 5456.0, 5545.0, 5721.0, 5315.0, 5406.0,

						5412.0, 5488.0, 5532.0, 5478.0, 5589.0, 5655.0, 5295.0, 5390.0, 5603.0, 5571.0, 5376.0, 5360.0, 5635.0, 5610.0, 5296.0, 5448.0, 5567.0, 5654.0, 5531.0, 5637.0, 5543.0, 5620.0, 5690.0, 5359.0, 5570.0, 5623.0, 5507.0, 5464.0, 5400.0, 5441.0, 5687.0, 5339.0, 5371.0, 5277.0, 5306.0, 5694.0, 5607.0, 5649.0, 5580.0, 5554.0, 5308.0, 5646.0, 5521.0, 5702.0, 5375.0, 5455.0, 5703.0, 5258.0, 5431.0, 5370.0, 5666.0, 5514.0, 5537.0, 5499.0, 5490.0, 5278.0, 5434.0, 5435.0, 5715.0, 5578.0 (number of hits: 7)
7	5510	9	1	333	1	5691.0, 5621.0, 5497.0, 5378.0, 5482.0, 5477.0, 5372.0, 5287.0, 5595.0, 5374.0, 5611.0, 5344.0, 5450.0, 5472.0, 5695.0, 5540.0, 5299.0, 5296.0, 5322.0, 5716.0, 5326.0, 5443.0, 5544.0, 5568.0, 5563.0, 5681.0, 5339.0, 5631.0, 5295.0, 5490.0, 5453.0, 5402.0, 5519.0, 5404.0, 5464.0, 5465.0, 5455.0, 5367.0, 5645.0, 5630.0, 5276.0, 5527.0, 5659.0, 5429.0, 5505.0, 5523.0, 5589.0, 5441.0, 5600.0, 5426.0, 5466.0, 5436.0, 5648.0, 5719.0, 5566.0, 5415.0, 5717.0, 5571.0, 5609.0, 5345.0, 5400.0, 5484.0, 5522.0, 5277.0, 5457.0, 5643.0, 5349.0, 5713.0, 5435.0, 5626.0, 5479.0, 5549.0, 5395.0, 5444.0, 5639.0, 5577.0, 5674.0, 5515.0, 5305.0, 5323.0, 5662.0, 5461.0, 5509.0, 5625.0, 5641.0, 5486.0, 5422.0, 5578.0, 5711.0, 5419.0, 5525.0, 5592.0, 5418.0, 5494.0, 5271.0, 5480.0, 5460.0, 5667.0, 5264.0, 5293.0 (number of hits: 10)
8	5510	9	1	333	1	5723.0, 5274.0, 5520.0, 5363.0, 5378.0, 5351.0, 5550.0, 5449.0, 5500.0, 5506.0, 5686.0, 5419.0, 5365.0, 5677.0, 5522.0, 5441.0, 5295.0, 5330.0, 5711.0, 5318.0, 5440.0, 5530.0, 5705.0, 5320.0, 5540.0, 5269.0, 5465.0, 5694.0, 5591.0, 5580.0, 5259.0, 5648.0, 5689.0, 5519.0, 5251.0, 5606.0, 5709.0, 5702.0, 5521.0, 5450.0, 5336.0, 5400.0, 5636.0, 5695.0, 5355.0, 5714.0, 5493.0, 5289.0, 5502.0, 5545.0, 5571.0, 5479.0, 5302.0, 5261.0, 5256.0, 5356.0, 5321.0, 5516.0, 5630.0, 5529.0, 5510.0, 5716.0, 5719.0, 5390.0, 5532.0, 5313.0, 5275.0, 5425.0, 5414.0, 5435.0, 5409.0, 5255.0, 5509.0, 5436.0, 5461.0, 5575.0, 5582.0, 5263.0, 5309.0, 5395.0, 5660.0, 5358.0, 5316.0, 5487.0, 5387.0, 5674.0, 5476.0, 5411.0, 5654.0, 5701.0, 5566.0, 5558.0, 5312.0, 5360.0, 5698.0, 5311.0, 5614.0, 5598.0, 5294.0, 5651.0 (number of hits: 11)
9	5510	9	1	333	1	5386.0, 5562.0, 5275.0, 5599.0, 5609.0, 5284.0, 5568.0, 5583.0, 5564.0, 5425.0, 5393.0, 5359.0, 5642.0, 5700.0, 5505.0, 5588.0, 5382.0, 5495.0, 5285.0, 5622.0,

						5591.0, 5372.0, 5471.0, 5572.0, 5598.0, 5528.0, 5496.0, 5608.0, 5322.0, 5527.0, 5421.0, 5294.0, 5449.0, 5376.0, 5281.0, 5287.0, 5426.0, 5443.0, 5339.0, 5358.0, 5355.0, 5593.0, 5655.0, 5701.0, 5453.0, 5336.0, 5329.0, 5427.0, 5629.0, 5276.0, 5644.0, 5469.0, 5448.0, 5349.0, 5286.0, 5440.0, 5255.0, 5486.0, 5641.0, 5645.0, 5422.0, 5658.0, 5368.0, 5576.0, 5251.0, 5480.0, 5262.0, 5464.0, 5689.0, 5394.0, 5317.0, 5463.0, 5605.0, 5298.0, 5673.0, 5713.0, 5695.0, 5714.0, 5454.0, 5648.0, 5529.0, 5634.0, 5474.0, 5693.0, 5669.0, 5345.0, 5400.0, 5665.0, 5356.0, 5450.0, 5272.0, 5305.0, 5521.0, 5459.0, 5408.0, 5586.0, 5383.0, 5557.0, 5391.0, 5475.0 (number of hits: 5)
10	5510	9	1	333	1	5250.0, 5615.0, 5720.0, 5591.0, 5369.0, 5414.0, 5303.0, 5710.0, 5459.0, 5546.0, 5464.0, 5478.0, 5345.0, 5677.0, 5441.0, 5274.0, 5655.0, 5267.0, 5268.0, 5334.0, 5402.0, 5255.0, 5425.0, 5378.0, 5628.0, 5401.0, 5683.0, 5297.0, 5280.0, 5395.0, 5326.0, 5330.0, 5314.0, 5296.0, 5573.0, 5421.0, 5584.0, 5519.0, 5384.0, 5529.0, 5579.0, 5492.0, 5577.0, 5634.0, 5506.0, 5477.0, 5253.0, 5535.0, 5462.0, 5511.0, 5284.0, 5344.0, 5686.0, 5670.0, 5651.0, 5540.0, 5646.0, 5663.0, 5563.0, 5694.0, 5275.0, 5315.0, 5556.0, 5451.0, 5299.0, 5372.0, 5649.0, 5647.0, 5484.0, 5680.0, 5265.0, 5423.0, 5322.0, 5554.0, 5491.0, 5442.0, 5270.0, 5449.0, 5406.0, 5666.0, 5667.0, 5520.0, 5638.0, 5532.0, 5295.0, 5524.0, 5364.0, 5403.0, 5440.0, 5418.0, 5569.0, 5376.0, 5587.0, 5572.0, 5419.0, 5689.0, 5494.0, 5608.0, 5669.0, 5516.0 (number of hits: 8)
11	5490	9	1	333	1	5323.0, 5590.0, 5679.0, 5316.0, 5424.0, 5690.0, 5708.0, 5646.0, 5689.0, 5577.0, 5483.0, 5625.0, 5594.0, 5543.0, 5673.0, 5267.0, 5281.0, 5415.0, 5464.0, 5378.0, 5314.0, 5275.0, 5528.0, 5349.0, 5448.0, 5504.0, 5260.0, 5421.0, 5330.0, 5466.0, 5361.0, 5460.0, 5523.0, 5587.0, 5716.0, 5412.0, 5500.0, 5519.0, 5682.0, 5551.0, 5629.0, 5655.0, 5428.0, 5675.0, 5296.0, 5458.0, 5404.0, 5473.0, 5672.0, 5334.0, 5539.0, 5475.0, 5413.0, 5678.0, 5643.0, 5488.0, 5422.0, 5531.0, 5696.0, 5608.0, 5369.0, 5426.0, 5677.0, 5365.0, 5292.0, 5668.0, 5293.0, 5406.0, 5403.0, 5596.0, 5429.0, 5338.0, 5493.0, 5251.0, 5710.0, 5336.0, 5276.0, 5695.0, 5512.0, 5370.0, 5340.0, 5463.0, 5299.0, 5693.0, 5510.0, 5529.0, 5557.0, 5432.0, 5366.0, 5518.0, 5471.0, 5451.0, 5636.0, 5638.0, 5681.0, 5304.0, 5588.0, 5278.0, 5631.0, 5623.0 (number of hits: 7)

12	5490	9	1	333	1	5483.0, 5550.0, 5405.0, 5572.0, 5269.0, 5330.0, 5593.0, 5713.0, 5380.0, 5433.0, 5326.0, 5611.0, 5672.0, 5720.0, 5555.0, 5453.0, 5498.0, 5300.0, 5268.0, 5697.0, 5430.0, 5395.0, 5669.0, 5370.0, 5652.0, 5297.0, 5459.0, 5443.0, 5257.0, 5682.0, 5506.0, 5260.0, 5305.0, 5454.0, 5575.0, 5511.0, 5412.0, 5344.0, 5438.0, 5493.0, 5710.0, 5461.0, 5570.0, 5587.0, 5278.0, 5451.0, 5514.0, 5376.0, 5415.0, 5577.0, 5553.0, 5374.0, 5419.0, 5654.0, 5499.0, 5339.0, 5325.0, 5519.0, 5428.0, 5311.0, 5468.0, 5525.0, 5603.0, 5290.0, 5626.0, 5644.0, 5448.0, 5647.0, 5539.0, 5377.0, 5349.0, 5612.0, 5708.0, 5309.0, 5390.0, 5549.0, 5623.0, 5548.0, 5277.0, 5420.0, 5586.0, 5569.0, 5386.0, 5321.0, 5388.0, 5298.0, 5660.0, 5446.0, 5274.0, 5640.0, 5610.0, 5279.0, 5594.0, 5673.0, 5517.0, 5694.0, 5687.0, 5427.0, 5715.0, 5400.0 (number of hits: 5)
13	5490	9	1	333	1	5270.0, 5430.0, 5345.0, 5388.0, 5357.0, 5481.0, 5577.0, 5605.0, 5643.0, 5394.0, 5626.0, 5668.0, 5445.0, 5611.0, 5687.0, 5600.0, 5673.0, 5358.0, 5283.0, 5599.0, 5720.0, 5513.0, 5670.0, 5392.0, 5536.0, 5623.0, 5440.0, 5497.0, 5619.0, 5423.0, 5682.0, 5483.0, 5592.0, 5412.0, 5452.0, 5420.0, 5555.0, 5508.0, 5522.0, 5380.0, 5588.0, 5463.0, 5537.0, 5400.0, 5570.0, 5352.0, 5291.0, 5370.0, 5690.0, 5346.0, 5580.0, 5638.0, 5529.0, 5540.0, 5653.0, 5351.0, 5718.0, 5305.0, 5404.0, 5323.0, 5504.0, 5461.0, 5659.0, 5274.0, 5590.0, 5568.0, 5366.0, 5640.0, 5397.0, 5608.0, 5313.0, 5572.0, 5547.0, 5603.0, 5703.0, 5712.0, 5332.0, 5374.0, 5328.0, 5677.0, 5484.0, 5327.0, 5416.0, 5490.0, 5311.0, 5368.0, 5627.0, 5371.0, 5433.0, 5355.0, 5695.0, 5353.0, 5414.0, 5393.0, 5492.0, 5550.0, 5545.0, 5343.0, 5596.0, 5261.0 (number of hits: 7)
14	5490	9	1	333	1	5317.0, 5712.0, 5293.0, 5688.0, 5671.0, 5354.0, 5581.0, 5721.0, 5654.0, 5297.0, 5636.0, 5698.0, 5437.0, 5363.0, 5399.0, 5329.0, 5599.0, 5659.0, 5704.0, 5650.0, 5661.0, 5344.0, 5672.0, 5348.0, 5641.0, 5306.0, 5692.0, 5268.0, 5534.0, 5505.0, 5619.0, 5705.0, 5471.0, 5476.0, 5492.0, 5625.0, 5448.0, 5462.0, 5657.0, 5314.0, 5449.0, 5498.0, 5472.0, 5257.0, 5415.0, 5254.0, 5664.0, 5356.0, 5593.0, 5604.0, 5639.0, 5564.0, 5720.0, 5703.0, 5620.0, 5494.0, 5367.0, 5543.0, 5609.0, 5489.0, 5719.0, 5369.0, 5392.0, 5465.0, 5396.0, 5500.0, 5656.0, 5379.0, 5323.0, 5360.0, 5428.0, 5606.0, 5669.0, 5529.0, 5305.0, 5385.0, 5464.0, 5376.0, 5253.0, 5523.0, 5381.0, 5308.0, 5613.0, 5420.0, 5480.0,

						5284.0, 5628.0, 5264.0, 5678.0, 5273.0, 5714.0, 5508.0, 5285.0, 5701.0, 5258.0, 5256.0, 5393.0, 5261.0, 5682.0, 5571.0 (number of hits: 9)
15	5490	9	1	333	1	5712.0, 5433.0, 5271.0, 5259.0, 5582.0, 5445.0, 5721.0, 5291.0, 5324.0, 5657.0, 5625.0, 5534.0, 5618.0, 5659.0, 5610.0, 5678.0, 5439.0, 5312.0, 5333.0, 5295.0, 5387.0, 5605.0, 5284.0, 5372.0, 5560.0, 5379.0, 5317.0, 5615.0, 5466.0, 5306.0, 5430.0, 5536.0, 5690.0, 5547.0, 5274.0, 5620.0, 5542.0, 5470.0, 5301.0, 5252.0, 5338.0, 5656.0, 5369.0, 5557.0, 5559.0, 5278.0, 5606.0, 5391.0, 5437.0, 5263.0, 5717.0, 5580.0, 5286.0, 5272.0, 5347.0, 5348.0, 5421.0, 5321.0, 5429.0, 5360.0, 5700.0, 5326.0, 5351.0, 5514.0, 5404.0, 5646.0, 5405.0, 5255.0, 5644.0, 5408.0, 5256.0, 5591.0, 5616.0, 5703.0, 5546.0, 5639.0, 5440.0, 5456.0, 5499.0, 5308.0, 5491.0, 5564.0, 5510.0, 5613.0, 5665.0, 5327.0, 5283.0, 5298.0, 5332.0, 5619.0, 5522.0, 5631.0, 5648.0, 5401.0, 5381.0, 5585.0, 5685.0, 5358.0, 5693.0, 5540.0 (number of hits: 2)
16	5490	9	1	333	1	5476.0, 5486.0, 5469.0, 5454.0, 5517.0, 5674.0, 5309.0, 5423.0, 5613.0, 5266.0, 5440.0, 5370.0, 5312.0, 5304.0, 5422.0, 5707.0, 5505.0, 5275.0, 5610.0, 5437.0, 5345.0, 5307.0, 5612.0, 5470.0, 5559.0, 5250.0, 5718.0, 5308.0, 5715.0, 5666.0, 5301.0, 5506.0, 5605.0, 5573.0, 5562.0, 5328.0, 5478.0, 5300.0, 5649.0, 5598.0, 5655.0, 5594.0, 5291.0, 5340.0, 5445.0, 5601.0, 5258.0, 5618.0, 5484.0, 5365.0, 5383.0, 5255.0, 5629.0, 5501.0, 5344.0, 5425.0, 5357.0, 5480.0, 5585.0, 5565.0, 5494.0, 5290.0, 5577.0, 5403.0, 5645.0, 5355.0, 5722.0, 5575.0, 5471.0, 5669.0, 5708.0, 5415.0, 5542.0, 5578.0, 5518.0, 5441.0, 5503.0, 5617.0, 5452.0, 5299.0, 5667.0, 5349.0, 5347.0, 5256.0, 5439.0, 5646.0, 5603.0, 5348.0, 5411.0, 5698.0, 5444.0, 5373.0, 5377.0, 5270.0, 5262.0, 5295.0, 5672.0, 5276.0, 5680.0, 5274.0 (number of hits: 10)
17	5490	9	1	333	1	5589.0, 5511.0, 5704.0, 5298.0, 5577.0, 5699.0, 5341.0, 5623.0, 5522.0, 5641.0, 5423.0, 5582.0, 5501.0, 5355.0, 5705.0, 5557.0, 5387.0, 5554.0, 5374.0, 5391.0, 5581.0, 5533.0, 5590.0, 5667.0, 5543.0, 5307.0, 5604.0, 5636.0, 5445.0, 5691.0, 5458.0, 5619.0, 5389.0, 5579.0, 5398.0, 5416.0, 5703.0, 5550.0, 5285.0, 5646.0, 5354.0, 5475.0, 5261.0, 5603.0, 5400.0, 5369.0, 5496.0, 5362.0, 5523.0, 5499.0, 5323.0, 5488.0, 5573.0, 5306.0, 5605.0, 5406.0, 5507.0, 5638.0, 5537.0, 5405.0, 5710.0, 5504.0, 5714.0, 5338.0, 5678.0,

						5251.0, 5420.0, 5525.0, 5598.0, 5392.0, 5649.0, 5568.0, 5724.0, 5431.0, 5459.0, 5618.0, 5319.0, 5652.0, 5648.0, 5437.0, 5716.0, 5576.0, 5506.0, 5642.0, 5594.0, 5263.0, 5255.0, 5466.0, 5388.0, 5640.0, 5315.0, 5622.0, 5480.0, 5409.0, 5390.0, 5314.0, 5470.0, 5334.0, 5379.0, 5448.0 (number of hits: 9)
18	5490	9	1	333	1	5379.0, 5615.0, 5397.0, 5347.0, 5696.0, 5657.0, 5412.0, 5383.0, 5349.0, 5374.0, 5700.0, 5465.0, 5354.0, 5416.0, 5653.0, 5594.0, 5645.0, 5289.0, 5592.0, 5335.0, 5542.0, 5536.0, 5272.0, 5441.0, 5489.0, 5722.0, 5557.0, 5712.0, 5254.0, 5661.0, 5588.0, 5579.0, 5466.0, 5627.0, 5656.0, 5570.0, 5519.0, 5495.0, 5637.0, 5623.0, 5431.0, 5572.0, 5516.0, 5694.0, 5278.0, 5585.0, 5492.0, 5344.0, 5610.0, 5638.0, 5595.0, 5418.0, 5598.0, 5313.0, 5338.0, 5482.0, 5718.0, 5266.0, 5669.0, 5662.0, 5658.0, 5666.0, 5451.0, 5702.0, 5558.0, 5297.0, 5298.0, 5389.0, 5620.0, 5343.0, 5341.0, 5369.0, 5311.0, 5561.0, 5414.0, 5408.0, 5363.0, 5353.0, 5635.0, 5462.0, 5365.0, 5671.0, 5668.0, 5293.0, 5504.0, 5253.0, 5565.0, 5537.0, 5457.0, 5358.0, 5517.0, 5643.0, 5539.0, 5573.0, 5413.0, 5346.0, 5538.0, 5647.0, 5506.0, 5432.0 (number of hits: 6)
19	5490	9	1	333	1	5516.0, 5511.0, 5451.0, 5493.0, 5253.0, 5438.0, 5705.0, 5635.0, 5633.0, 5276.0, 5665.0, 5348.0, 5273.0, 5374.0, 5468.0, 5351.0, 5502.0, 5572.0, 5373.0, 5644.0, 5429.0, 5607.0, 5343.0, 5294.0, 5411.0, 5361.0, 5566.0, 5329.0, 5658.0, 5552.0, 5359.0, 5458.0, 5691.0, 5676.0, 5680.0, 5462.0, 5556.0, 5457.0, 5642.0, 5397.0, 5393.0, 5501.0, 5548.0, 5391.0, 5545.0, 5415.0, 5303.0, 5616.0, 5513.0, 5567.0, 5480.0, 5313.0, 5446.0, 5686.0, 5675.0, 5376.0, 5554.0, 5467.0, 5482.0, 5421.0, 5434.0, 5386.0, 5708.0, 5292.0, 5392.0, 5654.0, 5596.0, 5255.0, 5539.0, 5310.0, 5527.0, 5546.0, 5349.0, 5352.0, 5364.0, 5615.0, 5338.0, 5312.0, 5577.0, 5358.0, 5561.0, 5664.0, 5540.0, 5375.0, 5648.0, 5300.0, 5617.0, 5672.0, 5578.0, 5509.0, 5256.0, 5277.0, 5419.0, 5471.0, 5475.0, 5612.0, 5479.0, 5507.0, 5533.0, 5395.0 (number of hits: 8)
20	5490	9	1	333	1	5629.0, 5671.0, 5724.0, 5477.0, 5400.0, 5410.0, 5495.0, 5447.0, 5357.0, 5486.0, 5335.0, 5656.0, 5692.0, 5643.0, 5530.0, 5573.0, 5555.0, 5611.0, 5552.0, 5459.0, 5583.0, 5627.0, 5258.0, 5250.0, 5663.0, 5518.0, 5600.0, 5478.0, 5634.0, 5509.0, 5450.0, 5501.0, 5579.0, 5526.0, 5631.0, 5609.0, 5694.0, 5414.0, 5463.0, 5415.0, 5374.0, 5464.0, 5373.0, 5271.0, 5404.0,

						5565.0, 5348.0, 5491.0, 5669.0, 5508.0, 5595.0, 5608.0, 5287.0, 5588.0, 5461.0, 5386.0, 5269.0, 5393.0, 5360.0, 5682.0, 5457.0, 5407.0, 5512.0, 5320.0, 5331.0, 5516.0, 5285.0, 5296.0, 5391.0, 5661.0, 5667.0, 5700.0, 5722.0, 5474.0, 5424.0, 5394.0, 5480.0, 5321.0, 5355.0, 5377.0, 5316.0, 5617.0, 5624.0, 5519.0, 5572.0, 5550.0, 5319.0, 5291.0, 5655.0, 5365.0, 5699.0, 5678.0, 5280.0, 5337.0, 5423.0, 5350.0, 5437.0, 5279.0, 5324.0, 5687.0 (number of hits: 8)
21	5530	9	1	333	1	5270.0, 5495.0, 5265.0, 5700.0, 5593.0, 5526.0, 5298.0, 5326.0, 5417.0, 5698.0, 5640.0, 5428.0, 5566.0, 5367.0, 5706.0, 5434.0, 5620.0, 5705.0, 5312.0, 5613.0, 5671.0, 5515.0, 5582.0, 5430.0, 5377.0, 5690.0, 5442.0, 5713.0, 5625.0, 5565.0, 5405.0, 5615.0, 5327.0, 5470.0, 5643.0, 5418.0, 5306.0, 5657.0, 5439.0, 5710.0, 5672.0, 5694.0, 5691.0, 5341.0, 5562.0, 5676.0, 5294.0, 5490.0, 5717.0, 5371.0, 5342.0, 5343.0, 5452.0, 5279.0, 5410.0, 5518.0, 5513.0, 5310.0, 5293.0, 5344.0, 5284.0, 5487.0, 5472.0, 5573.0, 5356.0, 5719.0, 5511.0, 5576.0, 5619.0, 5596.0, 5322.0, 5684.0, 5296.0, 5677.0, 5419.0, 5432.0, 5621.0, 5404.0, 5468.0, 5491.0, 5589.0, 5414.0, 5373.0, 5463.0, 5631.0, 5598.0, 5610.0, 5536.0, 5608.0, 5288.0, 5510.0, 5347.0, 5451.0, 5703.0, 5683.0, 5695.0, 5447.0, 5334.0, 5605.0, 5508.0 (number of hits: 5)
22	5530	9	1	333	1	5301.0, 5475.0, 5345.0, 5354.0, 5584.0, 5504.0, 5665.0, 5588.0, 5300.0, 5627.0, 5396.0, 5714.0, 5331.0, 5419.0, 5373.0, 5420.0, 5495.0, 5682.0, 5316.0, 5429.0, 5614.0, 5259.0, 5387.0, 5623.0, 5698.0, 5439.0, 5710.0, 5486.0, 5470.0, 5333.0, 5407.0, 5472.0, 5720.0, 5711.0, 5446.0, 5553.0, 5686.0, 5359.0, 5563.0, 5617.0, 5440.0, 5353.0, 5596.0, 5557.0, 5626.0, 5392.0, 5648.0, 5458.0, 5662.0, 5635.0, 5426.0, 5533.0, 5629.0, 5673.0, 5450.0, 5269.0, 5267.0, 5364.0, 5454.0, 5503.0, 5490.0, 5325.0, 5362.0, 5489.0, 5343.0, 5281.0, 5630.0, 5645.0, 5442.0, 5528.0, 5639.0, 5250.0, 5700.0, 5676.0, 5408.0, 5613.0, 5329.0, 5633.0, 5718.0, 5290.0, 5465.0, 5463.0, 5571.0, 5314.0, 5276.0, 5643.0, 5393.0, 5397.0, 5339.0, 5561.0, 5644.0, 5574.0, 5547.0, 5680.0, 5414.0, 5406.0, 5668.0, 5340.0, 5695.0, 5620.0 (number of hits: 3)
23	5530	9	1	333	1	5393.0, 5470.0, 5456.0, 5666.0, 5673.0, 5510.0, 5497.0, 5462.0, 5711.0, 5701.0, 5266.0, 5541.0, 5543.0, 5566.0, 5360.0, 5495.0, 5611.0, 5529.0, 5272.0, 5704.0, 5278.0, 5380.0, 5294.0, 5434.0, 5256.0,

						5499.0, 5509.0, 5287.0, 5677.0, 5708.0, 5506.0, 5539.0, 5688.0, 5384.0, 5309.0, 5355.0, 5692.0, 5634.0, 5641.0, 5650.0, 5449.0, 5515.0, 5717.0, 5684.0, 5588.0, 5609.0, 5581.0, 5328.0, 5635.0, 5625.0, 5512.0, 5308.0, 5560.0, 5643.0, 5698.0, 5419.0, 5464.0, 5280.0, 5258.0, 5552.0, 5402.0, 5623.0, 5549.0, 5656.0, 5406.0, 5347.0, 5658.0, 5255.0, 5441.0, 5583.0, 5672.0, 5562.0, 5573.0, 5459.0, 5405.0, 5372.0, 5665.0, 5575.0, 5438.0, 5427.0, 5702.0, 5408.0, 5389.0, 5550.0, 5661.0, 5305.0, 5345.0, 5551.0, 5706.0, 5679.0, 5586.0, 5511.0, 5458.0, 5267.0, 5705.0, 5491.0, 5475.0, 5264.0, 5619.0, 5351.0 (number of hits: 6)
24	5530	9	1	333	1	5612.0, 5653.0, 5718.0, 5288.0, 5419.0, 5333.0, 5400.0, 5415.0, 5428.0, 5298.0, 5279.0, 5621.0, 5565.0, 5530.0, 5550.0, 5481.0, 5304.0, 5525.0, 5344.0, 5371.0, 5396.0, 5560.0, 5460.0, 5363.0, 5682.0, 5464.0, 5469.0, 5495.0, 5713.0, 5446.0, 5545.0, 5686.0, 5482.0, 5273.0, 5309.0, 5581.0, 5409.0, 5538.0, 5631.0, 5285.0, 5282.0, 5256.0, 5598.0, 5540.0, 5251.0, 5436.0, 5507.0, 5471.0, 5271.0, 5535.0, 5275.0, 5597.0, 5533.0, 5462.0, 5695.0, 5326.0, 5633.0, 5295.0, 5407.0, 5449.0, 5679.0, 5506.0, 5382.0, 5647.0, 5463.0, 5569.0, 5585.0, 5390.0, 5372.0, 5557.0, 5573.0, 5276.0, 5265.0, 5272.0, 5451.0, 5522.0, 5607.0, 5579.0, 5483.0, 5441.0, 5267.0, 5438.0, 5602.0, 5365.0, 5472.0, 5250.0, 5416.0, 5405.0, 5500.0, 5712.0, 5341.0, 5710.0, 5505.0, 5700.0, 5664.0, 5665.0, 5364.0, 5340.0, 5343.0, 5554.0 (number of hits: 8)
25	5530	9	1	333	1	5669.0, 5666.0, 5258.0, 5498.0, 5717.0, 5632.0, 5598.0, 5555.0, 5283.0, 5681.0, 5474.0, 5620.0, 5323.0, 5295.0, 5554.0, 5281.0, 5652.0, 5658.0, 5561.0, 5511.0, 5299.0, 5333.0, 5271.0, 5290.0, 5350.0, 5667.0, 5516.0, 5521.0, 5398.0, 5307.0, 5438.0, 5296.0, 5698.0, 5310.0, 5399.0, 5440.0, 5468.0, 5701.0, 5459.0, 5482.0, 5331.0, 5710.0, 5657.0, 5600.0, 5329.0, 5688.0, 5469.0, 5683.0, 5441.0, 5370.0, 5479.0, 5704.0, 5673.0, 5637.0, 5526.0, 5484.0, 5318.0, 5552.0, 5264.0, 5355.0, 5506.0, 5665.0, 5631.0, 5406.0, 5699.0, 5490.0, 5413.0, 5708.0, 5305.0, 5505.0, 5432.0, 5270.0, 5361.0, 5565.0, 5337.0, 5636.0, 5596.0, 5499.0, 5275.0, 5311.0, 5306.0, 5525.0, 5686.0, 5356.0, 5251.0, 5315.0, 5322.0, 5366.0, 5712.0, 5292.0, 5503.0, 5663.0, 5557.0, 5397.0, 5379.0, 5662.0, 5298.0, 5372.0, 5373.0, 5607.0 (number of hits: 4)
26	5530	9	1	333	1	5349.0, 5414.0, 5519.0, 5614.0, 5296.0,

						5679.0, 5328.0, 5432.0, 5354.0, 5430.0, 5451.0, 5690.0, 5602.0, 5543.0, 5710.0, 5643.0, 5488.0, 5646.0, 5413.0, 5594.0, 5408.0, 5316.0, 5306.0, 5429.0, 5256.0, 5347.0, 5309.0, 5624.0, 5570.0, 5424.0, 5375.0, 5460.0, 5700.0, 5556.0, 5418.0, 5356.0, 5415.0, 5625.0, 5533.0, 5445.0, 5670.0, 5338.0, 5716.0, 5621.0, 5641.0, 5261.0, 5583.0, 5294.0, 5528.0, 5677.0, 5298.0, 5319.0, 5416.0, 5694.0, 5324.0, 5386.0, 5530.0, 5535.0, 5297.0, 5368.0, 5377.0, 5551.0, 5390.0, 5600.0, 5362.0, 5706.0, 5267.0, 5596.0, 5585.0, 5438.0, 5651.0, 5325.0, 5308.0, 5350.0, 5539.0, 5586.0, 5532.0, 5722.0, 5508.0, 5487.0, 5425.0, 5587.0, 5693.0, 5526.0, 5288.0, 5392.0, 5500.0, 5271.0, 5563.0, 5471.0, 5389.0, 5673.0, 5314.0, 5353.0, 5427.0, 5369.0, 5277.0, 5707.0, 5444.0, 5549.0 (number of hits: 9)
27	5530	9	1	333	1	5355.0, 5666.0, 5656.0, 5530.0, 5709.0, 5705.0, 5635.0, 5388.0, 5624.0, 5664.0, 5518.0, 5689.0, 5462.0, 5631.0, 5551.0, 5519.0, 5501.0, 5376.0, 5285.0, 5567.0, 5292.0, 5718.0, 5499.0, 5647.0, 5592.0, 5358.0, 5724.0, 5525.0, 5677.0, 5667.0, 5520.0, 5679.0, 5250.0, 5359.0, 5430.0, 5602.0, 5332.0, 5658.0, 5347.0, 5345.0, 5489.0, 5364.0, 5533.0, 5417.0, 5460.0, 5386.0, 5506.0, 5559.0, 5441.0, 5620.0, 5513.0, 5381.0, 5583.0, 5341.0, 5616.0, 5652.0, 5589.0, 5707.0, 5252.0, 5660.0, 5304.0, 5414.0, 5461.0, 5387.0, 5517.0, 5473.0, 5659.0, 5514.0, 5528.0, 5547.0, 5687.0, 5311.0, 5272.0, 5429.0, 5715.0, 5319.0, 5396.0, 5695.0, 5683.0, 5454.0, 5438.0, 5542.0, 5719.0, 5366.0, 5566.0, 5371.0, 5404.0, 5686.0, 5645.0, 5502.0, 5256.0, 5333.0, 5452.0, 5557.0, 5654.0, 5596.0, 5389.0, 5610.0, 5574.0, 5320.0 (number of hits: 12)
28	5530	9	1	333	1	5426.0, 5294.0, 5672.0, 5528.0, 5506.0, 5545.0, 5502.0, 5698.0, 5715.0, 5674.0, 5573.0, 5643.0, 5704.0, 5720.0, 5557.0, 5267.0, 5410.0, 5297.0, 5398.0, 5651.0, 5485.0, 5617.0, 5691.0, 5268.0, 5409.0, 5719.0, 5552.0, 5296.0, 5274.0, 5496.0, 5449.0, 5455.0, 5348.0, 5423.0, 5319.0, 5341.0, 5435.0, 5379.0, 5388.0, 5706.0, 5307.0, 5481.0, 5254.0, 5371.0, 5668.0, 5710.0, 5270.0, 5353.0, 5377.0, 5278.0, 5262.0, 5276.0, 5600.0, 5454.0, 5592.0, 5596.0, 5613.0, 5439.0, 5465.0, 5581.0, 5623.0, 5699.0, 5467.0, 5429.0, 5696.0, 5301.0, 5702.0, 5412.0, 5649.0, 5387.0, 5275.0, 5347.0, 5554.0, 5603.0, 5501.0, 5497.0, 5361.0, 5329.0, 5556.0, 5619.0, 5382.0, 5622.0, 5359.0, 5302.0, 5659.0, 5260.0, 5509.0, 5629.0, 5714.0, 5620.0,

						5450.0, 5669.0, 5681.0, 5433.0, 5530.0, 5424.0, 5280.0, 5585.0, 5615.0, 5555.0 (number of hits: 3)
29	5530	9	1	333	1	5396.0, 5525.0, 5543.0, 5341.0, 5641.0, 5355.0, 5572.0, 5267.0, 5337.0, 5689.0, 5617.0, 5495.0, 5282.0, 5627.0, 5323.0, 5410.0, 5668.0, 5636.0, 5449.0, 5277.0, 5259.0, 5688.0, 5260.0, 5607.0, 5593.0, 5434.0, 5588.0, 5575.0, 5303.0, 5402.0, 5597.0, 5694.0, 5454.0, 5615.0, 5430.0, 5305.0, 5451.0, 5653.0, 5633.0, 5450.0, 5672.0, 5456.0, 5316.0, 5276.0, 5540.0, 5373.0, 5492.0, 5526.0, 5598.0, 5592.0, 5380.0, 5476.0, 5289.0, 5567.0, 5417.0, 5369.0, 5353.0, 5441.0, 5711.0, 5310.0, 5443.0, 5674.0, 5496.0, 5425.0, 5589.0, 5319.0, 5377.0, 5299.0, 5630.0, 5419.0, 5649.0, 5702.0, 5466.0, 5400.0, 5712.0, 5571.0, 5542.0, 5640.0, 5561.0, 5502.0, 5288.0, 5321.0, 5315.0, 5311.0, 5300.0, 5647.0, 5577.0, 5566.0, 5386.0, 5424.0, 5509.0, 5464.0, 5356.0, 5473.0, 5334.0, 5478.0, 5362.0, 5317.0, 5501.0, 5481.0 (number of hits: 5)
30	5530	9	1	333	1	5574.0, 5361.0, 5713.0, 5325.0, 5460.0, 5328.0, 5397.0, 5354.0, 5529.0, 5657.0, 5299.0, 5267.0, 5288.0, 5608.0, 5678.0, 5309.0, 5715.0, 5388.0, 5283.0, 5709.0, 5448.0, 5617.0, 5528.0, 5254.0, 5327.0, 5703.0, 5478.0, 5540.0, 5287.0, 5321.0, 5639.0, 5306.0, 5447.0, 5624.0, 5399.0, 5435.0, 5628.0, 5400.0, 5405.0, 5277.0, 5462.0, 5588.0, 5422.0, 5613.0, 5717.0, 5296.0, 5533.0, 5548.0, 5695.0, 5273.0, 5622.0, 5469.0, 5534.0, 5394.0, 5402.0, 5698.0, 5430.0, 5495.0, 5634.0, 5552.0, 5501.0, 5403.0, 5596.0, 5259.0, 5439.0, 5310.0, 5255.0, 5549.0, 5431.0, 5610.0, 5381.0, 5341.0, 5458.0, 5582.0, 5313.0, 5484.0, 5656.0, 5453.0, 5378.0, 5658.0, 5675.0, 5599.0, 5315.0, 5428.0, 5600.0, 5258.0, 5509.0, 5441.0, 5561.0, 5472.0, 5505.0, 5607.0, 5696.0, 5710.0, 5456.0, 5406.0, 5694.0, 5379.0, 5377.0, 5623.0 (number of hits: 5)

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	96.7 %	60%	Pass
Type 3	30	100 %	60%	Pass
Type 4	30	93.3 %	60%	Pass
Aggregate (Type1 to 4)	120	97.5 %	80%	Pass
Type 5	30	100 %	80%	Pass
Type 6	30	96.7 %	70%	Pass

Please refer to the following statistical tables:

5530 MHz, 80 MHz Bandwidth

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

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5530	78	1	678	1
2	5530	76	1	698	1
3	5530	68	1	778	1
4	5530	61	1	878	1
5	5530	65	1	818	1
6	5490	83	1	638	1
7	5490	92	1	578	1
8	5490	58	1	918	1
9	5490	102	1	518	1
10	5490	67	1	798	1
11	5570	57	1	938	1
12	5570	99	1	538	1
13	5570	72	1	738	1
14	5570	62	1	858	1
15	5570	86	1	618	1
16	5530	18	1	2947	1
17	5530	41	1	1290	1
18	5530	18	1	2963	1
19	5530	59	1	902	1
20	5530	21	1	2518	1
21	5490	100	1	533	1
22	5490	47	1	1123	1
23	5490	50	1	1071	1
24	5490	18	1	3003	1
25	5490	25	1	2197	1
26	5570	19	1	2914	1
27	5570	46	1	1163	1
28	5570	56	1	945	1
29	5570	22	1	2429	1
30	5570	25	1	2132	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	1.9	196	1
2	5530	25	2.1	184	1
3	5530	25	4.9	217	1
4	5530	24	1.3	202	1
5	5530	26	2.8	176	1
6	5530	29	1.5	190	1
7	5530	28	3	205	0
8	5530	25	2.5	161	1
9	5530	25	1.2	153	1
10	5530	26	3.8	192	1
11	5490	23	4.8	172	1
12	5490	24	3	179	1
13	5490	28	2.1	181	1
14	5490	29	1.9	159	1
15	5490	28	4	197	1
16	5490	29	3.6	206	1
17	5490	23	1.4	174	1
18	5490	25	1	168	1
19	5490	26	3.5	209	1
20	5490	24	2.8	205	1
21	5570	25	4	222	1
22	5570	23	4.5	197	1
23	5570	27	3.6	188	1
24	5570	24	2.1	189	1
25	5570	28	3.4	171	1
26	5570	29	3.2	164	1
27	5570	28	2.1	205	1
28	5570	25	3.1	167	1
29	5570	28	4.5	164	1
30	5570	27	3.6	214	1
Detection Percentage: 96.7 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5530	16	8.2	374	1
2	5530	16	9.1	372	1
3	5530	16	6.4	310	1
4	5530	18	9.5	487	1
5	5530	18	8.1	462	1
6	5530	18	7.5	329	1
7	5530	18	8.6	494	1
8	5530	17	8.9	463	1
9	5530	18	8.6	284	1
10	5530	16	8.4	482	1
11	5490	16	10	266	1
12	5490	18	8.3	439	1
13	5490	17	8.3	494	1
14	5490	18	9.3	237	1
15	5490	17	7.4	388	1
16	5490	18	9.1	245	1
17	5490	16	9.5	258	1
18	5490	16	9.1	336	1
19	5490	18	6	389	1
20	5490	18	6.5	382	1
21	5570	17	9	455	1
22	5570	17	8.6	417	1
23	5570	16	9.3	358	1
24	5570	18	7.7	229	1
25	5570	17	7	424	1
26	5570	16	6.6	297	1
27	5570	16	9.3	281	1
28	5570	17	6.1	210	1
29	5570	16	9	281	1
30	5570	17	9.3	486	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	12	18.3	424	1
2	5530	15	16.8	343	1
3	5530	12	11.3	223	1
4	5530	16	12.7	356	1
5	5530	16	17	210	1
6	5530	12	12.6	459	1
7	5530	12	13.6	207	1
8	5530	12	13.5	241	1
9	5530	13	18.5	209	1
10	5530	14	12.9	476	1
11	5490	16	13.4	230	1
12	5490	15	18.2	265	1
13	5490	14	17	288	1
14	5490	15	15.5	397	1
15	5490	14	15.8	379	1
16	5490	15	14	390	1
17	5490	14	18	354	1
18	5490	14	12.7	407	1
19	5490	13	13.4	308	0
20	5490	13	12.9	223	1
21	5570	16	18.7	249	1
22	5570	13	13.1	202	1
23	5570	14	17.5	305	1
24	5570	16	17.3	477	1
25	5570	16	15.4	484	1
26	5570	15	14	212	1
27	5570	13	13	262	1
28	5570	14	11.7	487	1
29	5570	14	13.5	399	1
30	5570	15	12.4	456	0
Detection Percentage: 93.3 % (>60%)					

Table-5 Radar Type 5 Statistical Performance

Trial #	Fc (MHz)	Detection (1:yes; 0:no)
1	5530	1
2	5530	1
3	5530	1
4	5530	1
5	5530	1
6	5530	1
7	5530	1
8	5530	1
9	5530	1
10	5530	1
11	5495.6	1
12	5494.0	1
13	5498.4	1
14	5497.2	1
15	5495.2	1
16	5497.2	1
17	5498.0	1
18	5499.2	1
19	5496.4	1
20	5494.0	1
21	5565.6	1
22	5560.8	1
23	5561.2	1
24	5562.8	1
25	5562.8	1
26	5565.6	1
27	5560.4	1
28	5562.4	1
29	5565.2	1
30	5562.8	1
Detection Percentage: 100 % (>80%)		

Bin5 Statistics 1

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	6	65.6	1900		0.803924	1
1	2	6	85.6	1061		1.019636	
2	3	6	63.6	1165	1953	2.037163	
3	2	6	95.2	1162		2.635319	
4	1	6	82.9			4.041843	
5	1	6	75.7			4.757299	
6	2	6	95.5	1768		5.73711	
7	3	6	77.7	1254	1576	6.24154	
8	3	6	63.2	1904	1047	7.148408	
9	1	6	56.3			8.365964	
10	2	6	61	1676		8.744651	
11	2	6	93.1	1641		9.999791	
12	2	6	97.9	1164		11.034989	
13	3	6	62.1	1498	1473	11.326828	

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	87.4	1356	1510	0.610793	1
1	3	18	82.7	1907	1868	0.988261	
2	3	18	87.1	1094	1232	2.157606	
3	1	18	97.7			3.048599	
4	2	18	51.7	1745		3.700974	
5	1	18	80.8			4.422512	
6	3	18	75.8	1550	1368	5.07335	
7	2	18	69.9	1106		5.790904	
8	1	18	72			6.772514	
9	2	18	85.4	1887		7.560108	
10	3	18	68.1	1174	1779	8.557271	
11	1	18	62.2			9.389644	
12	1	18	60.5			9.795657	
13	2	18	62.9	1886		10.529111	
14	3	18	67	1476	1936	11.235498	

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	17	58.4			0.308713	1
1	2	17	69.3	1208		1.082585	
2	1	17	71.1			2.021449	
3	2	17	99.6	1625		2.869582	
4	1	17	69.9			3.542865	
5	3	17	94.9	1440	1369	4.542112	
6	2	17	60.2	1194		5.536614	
7	3	17	68	1036	1127	6.817654	
8	2	17	77.4	1216		7.04108	
9	2	17	79.2	1083		8.375435	
10	2	17	86.7	1492		9.288728	
11	1	17	80.2			9.873743	
12	2	17	74.7	1612		10.982642	
13	2	17	60.5	1515		11.151131	

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	62.3	1205		0.367882	1
1	2	13	60.3	1528		1.159966	
2	2	13	79.2	1256		1.467368	
3	1	13	90.7			2.332783	
4	2	13	99.8	1713		2.730472	
5	2	13	64.8	1694		3.739418	
6	3	13	99.6	1141	1300	4.569573	
7	1	13	73.2			5.329153	
8	1	13	84.2			5.361738	
9	3	13	79.6	1053	1659	6.117203	
10	2	13	82.1	1386		7.261063	
11	3	13	59.2	1821	1614	7.688761	
12	1	13	54.1			8.341796	
13	3	13	93.6	1293	1381	8.974597	
14	2	13	78.9	1126		9.795531	
15	2	13	77.8	1981		10.394653	
16	2	13	84.2	1222		11.284954	
17	3	13	70.7	1276	1567	11.720126	

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	13	58.2	1915		0.570197	
1	2	13	85	1435		1.235668	
2	2	13	91.9	1133		2.101249	
3	1	13	98.2			3.45569	
4	3	13	59.9	1672	1137	3.997031	
5	2	13	54.5	1673		5.114073	
6	2	13	82.4	1536		6.242119	1
7	2	13	69.5	1498		6.787113	
8	2	13	99.1	1905		7.553589	
9	2	13	63.5	1240		8.517111	
10	2	13	98	1822		9.324461	
11	3	13	64.9	1907	1555	10.20824	
12	1	13	85.7			11.831314	

Bin5 Statistics 6

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	6	77.9	1871	1501	0.473488	
1	1	6	70.7			1.539436	
2	1	6	87.2			2.181237	
3	2	6	56.9	1325		3.621113	
4	2	6	87.2	1803		4.484911	
5	3	6	81.2	1143	1615	5.363945	
6	2	6	52.2	1048		6.925859	1
7	3	6	78.9	1035	1624	7.729471	
8	1	6	62			8.098185	
9	3	6	86.1	1140	1068	9.870949	
10	3	6	79.5	1566	1696	10.909529	
11	2	6	66.5	1107		11.969963	

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	19	72.5	1143		0.681056	
1	1	19	70.1			1.685577	
2	2	19	58.8	1805		3.756041	
3	2	19	55.1	1173		5.0892	
4	3	19	70.4	1775	1596	6.282682	1
5	1	19	59.5			6.710611	
6	1	19	70.6			8.336868	
7	2	19	89.2	1052		9.555152	
8	1	19	87.1			11.078505	

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	14	62.3	1089		0.265256	
1	1	14	65.6			1.6178	
2	2	14	61.1	1969		2.567	
3	2	14	82.7	1665		3.339656	
4	1	14	80.5			4.309596	
5	1	14	77.1			4.83846	
6	1	14	93.3			5.589236	1
7	2	14	81.8	1810		6.805091	
8	1	14	59			8.299989	
9	2	14	97.5	1446		9.019495	
10	2	14	56.2	1592		9.521435	
11	2	14	80.1	1278		10.532062	
12	3	14	84.7	1440	1047	11.599872	

Bin5 Statistics 9

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	7	56.1	1945		0.289655	1
1	3	7	57.6	1779	1294	0.750381	
2	1	7	79.9			1.848607	
3	1	7	65.5			2.125735	
4	3	7	88.3	1846	1368	2.686204	
5	3	7	54	1916	1802	3.321713	
6	3	7	92.2	1880	1777	4.181691	
7	3	7	76.3	1240	1126	4.578685	
8	1	7	87.5			5.187418	
9	2	7	64.5	1118		5.996228	
10	2	7	55.3	1441		6.447268	
11	2	7	70.3	1036		7.208701	
12	2	7	98.7	1499		7.706186	
13	2	7	92	1543		8.544634	
14	2	7	57.3	1362		9.221289	
15	2	7	94.6	1684		10.027495	
16	2	7	66.5	1522		10.418738	
17	3	7	96.3	1089	1803	11.110271	
18	1	7	99.2			11.690017	

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	72.6	1364		0.421964	1
1	2	13	58.3	1710		1.80961	
2	3	13	76	1119	1913	2.836934	
3	2	13	68.1	1352		3.215536	
4	2	13	50.7	1226		4.867907	
5	2	13	83.3	1345		5.383946	
6	2	13	96	1338		6.46128	
7	2	13	86.2	1621		7.817402	
8	1	13	92			8.408073	
9	2	13	60.2	1600		9.035915	
10	1	13	92.8			10.616624	
11	3	13	82.6	1462	1760	11.58621	

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	60.8	1161		0.385413	
1	1	9	85.2			1.398862	
2	1	9	67.3			2.349405	
3	2	9	97.2	1423		3.170113	
4	2	9	72.6	1061		3.739459	
5	2	9	99.3	1180		4.053106	
6	1	9	80.4			5.270202	
7	2	9	79.9	1671		6.206082	1
8	1	9	91.2			6.41051	
9	2	9	70.1	1949		7.743757	
10	1	9	84.2			8.642385	
11	2	9	63.9	1395		9.11809	
12	3	9	73	1895	1370	9.875777	
13	2	9	97.4	1126		10.451322	
14	2	9	88.9	1394		11.427197	

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	5	93.8	1253		0	
1	1	5	62.6			1	
2	2	5	75.9	1940		2	
3	2	5	95.5	1246		3	
4	2	5	60	1226		4	
5	1	5	87.4			5	
6	1	5	57.9			6	
7	3	5	92.1	1178	1595	7	1
8	3	5	51.8	1231	1195	8	
9	3	5	89	1677	1729	9	
10	2	5	51.2	1142		10	
11	2	5	95.8	1178		11	
12	1	5	57.6			12	
13	3	5	64.3	1899	1097	13	

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	16	66	1432		0.161778	
1	2	16	74.6	1353		1.202423	
2	2	16	68.2	1830		1.662814	
3	2	16	74.3	1189		2.322714	
4	2	16	90.8	1432		3.245384	
5	3	16	70.9	1702	1215	3.506123	
6	2	16	71.1	1937		4.037379	
7	3	16	74.6	1852	1792	4.794096	
8	1	16	96.9			5.360101	1
9	1	16	78.4			6.332131	
10	2	16	81.4	1212		6.686268	
11	2	16	62.4	1763		7.838544	
12	3	16	58.4	1611	1908	8.039839	
13	1	16	53.7			9.03527	
14	1	16	81.5			9.834345	
15	3	16	51.3	1356	1241	10.012558	
16	2	16	85.3	1635		11.091129	
17	2	16	76.9	1121		11.933957	

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	13	99.8	1805		0.674375	1
1	3	13	79.4	1420	1523	1.67914	
2	2	13	52.9	1112		1.789279	
3	2	13	85.1	1856		3.179657	
4	1	13	85.2			3.445459	
5	1	13	93.1			4.526907	
6	2	13	87.1	1787		5.438612	
7	2	13	72.7	1991		6.317197	
8	1	13	80.3			7.624934	
9	2	13	57.7	1921		8.164454	
10	3	13	50.3	1820	1754	8.922366	
11	2	13	54.5	1258		10.038319	
12	2	13	63.6	1587		10.671307	
13	2	13	64.6	1305		11.723482	

Bin5 Statistics 15

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	8	88.2	1147		0.022768	1
1	2	8	55.1	1737		1.516083	
2	2	8	89	1434		1.828714	
3	2	8	57.1	1271		3.169159	
4	3	8	66.5	1781	1397	3.826849	
5	1	8	70.5			4.190031	
6	1	8	69.6			5.568838	
7	1	8	96.1			6.210775	
8	2	8	93.4	1156		6.990216	
9	2	8	94.6	1674		7.741072	
10	2	8	51.1	1507		8.74635	
11	1	8	53.9			9.297387	
12	2	8	89.4	1202		10.062013	
13	2	8	63.3	1914		10.859761	
14	1	8	90.4			11.604881	

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	69.8	1758		0.160296	1
1	2	13	50.5	1968		1.00248	
2	2	13	96.2	1637		2.439475	
3	1	13	96.9			2.790995	
4	2	13	87	1964		3.575266	
5	3	13	52.7	1122	1553	4.614076	
6	2	13	99.7	1266		5.628002	
7	2	13	95.8	1148		6.752373	
8	3	13	55.2	1321	1843	7.6703	
9	2	13	63.8	1937		7.877963	
10	2	13	63.1	1260		8.829421	
11	3	13	87.2	1410	1018	9.95881	
12	3	13	97.1	1276	1586	10.721503	
13	2	13	51.7	1862		11.909821	

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	15	50.4	1560		0.723592	1
1	1	15	98.8			1.567502	
2	3	15	83.1	1378	1991	2.319075	
3	1	15	84.4			3.062737	
4	2	15	89.1	1674		3.733717	
5	1	15	97.9			5.056642	
6	3	15	91.2	1724	1903	6.318069	
7	2	15	91.4	1439		6.860557	
8	3	15	63.1	1506	1019	7.956137	
9	1	15	83.9			8.487124	
10	2	15	99.2	1836		10.062434	
11	2	15	55.6	1410		10.418537	
12	3	15	54.4	1179	1181	11.368978	

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	18	83.3	1198		0.319888	1
1	2	18	69.5	1727		1.540823	
2	1	18	59.5			2.672114	
3	3	18	99.3	1020	1860	3.731692	
4	2	18	62.4	1486		4.244032	
5	2	18	66.8	1251		5.054878	
6	1	18	73.4			6.044348	
7	1	18	54.7			7.688363	
8	2	18	57	1224		8.105341	
9	3	18	83.3	1241	1555	9.191598	
10	2	18	80.8	1245		10.100444	
11	1	18	52.5			11.103969	

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	11	71.1	1606		0.71218	1
1	2	11	65.7	1566		1.215347	
2	1	11	54.7			1.945588	
3	2	11	83	1488		2.876375	
4	2	11	52.5	1283		3.571281	
5	2	11	76	1457		3.823794	
6	1	11	89.4			4.992098	
7	2	11	71.6	1175		5.328832	
8	1	11	98.3			6.303183	
9	2	11	94	1252		7.284423	
10	2	11	95.8	1602		7.679242	
11	2	11	85.6	1930		8.642045	
12	1	11	96.6			9.427031	
13	3	11	69.6	1692	1351	9.893746	
14	1	11	55			11.032091	
15	2	11	84.8	1646		11.698726	

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	75.8	1768		0.123029	
1	3	5	65.5	1817	1228	0.918677	
2	3	5	73.4	1377	1009	1.996775	
3	1	5	87.2			2.420558	
4	3	5	76.2	1726	1647	3.055116	
5	2	5	64.4	1834		3.818497	
6	3	5	55.5	1651	1142	4.5484	
7	2	5	98.8	1041		5.580553	1
8	2	5	68.5	1891		6.32716	
9	2	5	63.1	1253		7.035957	
10	2	5	71.5	1494		7.781676	
11	1	5	96.8			8.566211	
12	1	5	54.7			9.416829	
13	2	5	58.9	1596		10.16229	
14	3	5	81.1	1580	1389	10.852707	
15	2	5	51.8	1170		11.656379	

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	6	65.6	1900		0.803924	
1	2	6	85.6	1061		1.019636	
2	3	6	63.6	1165	1953	2.037163	
3	2	6	95.2	1162		2.635319	
4	1	6	82.9			4.041843	
5	1	6	75.7			4.757299	
6	2	6	95.5	1768		5.73711	
7	3	6	77.7	1254	1576	6.24154	1
8	3	6	63.2	1904	1047	7.148408	
9	1	6	56.3			8.365964	
10	2	6	61	1676		8.744651	
11	2	6	93.1	1641		9.999791	
12	2	6	97.9	1164		11.034989	
13	3	6	62.1	1498	1473	11.326828	

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	18	87.4	1356	1510	0.610793	
1	3	18	82.7	1907	1868	0.988261	
2	3	18	87.1	1094	1232	2.157606	
3	1	18	97.7			3.048599	
4	2	18	51.7	1745		3.700974	
5	1	18	80.8			4.422512	
6	3	18	75.8	1550	1368	5.07335	
7	2	18	69.9	1106		5.790904	1
8	1	18	72			6.772514	
9	2	18	85.4	1887		7.560108	
10	3	18	68.1	1174	1779	8.557271	
11	1	18	62.2			9.389644	
12	1	18	60.5			9.795657	
13	2	18	62.9	1886		10.529111	
14	3	18	67	1476	1936	11.235498	

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	17	58.4			0.308713	
1	2	17	69.3	1208		1.082585	
2	1	17	71.1			2.021449	
3	2	17	99.6	1625		2.869582	
4	1	17	69.9			3.542865	
5	3	17	94.9	1440	1369	4.542112	
6	2	17	60.2	1194		5.536614	
7	3	17	68	1036	1127	6.817654	1
8	2	17	77.4	1216		7.04108	
9	2	17	79.2	1083		8.375435	
10	2	17	86.7	1492		9.288728	
11	1	17	80.2			9.873743	
12	2	17	74.7	1612		10.982642	
13	2	17	60.5	1515		11.151131	

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	13	62.3	1205		0.367882	
1	2	13	60.3	1528		1.159966	
2	2	13	79.2	1256		1.467368	
3	1	13	90.7			2.332783	
4	2	13	99.8	1713		2.730472	
5	2	13	64.8	1694		3.739418	
6	3	13	99.6	1141	1300	4.569573	
7	1	13	73.2			5.329153	
8	1	13	84.2			5.361738	1
9	3	13	79.6	1053	1659	6.117203	
10	2	13	82.1	1386		7.261063	
11	3	13	59.2	1821	1614	7.688761	
12	1	13	54.1			8.341796	
13	3	13	93.6	1293	1381	8.974597	
14	2	13	78.9	1126		9.795531	
15	2	13	77.8	1981		10.394653	
16	2	13	84.2	1222		11.284954	
17	3	13	70.7	1276	1567	11.720126	

Bin5 Statistics 25

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	13	58.2	1915		0.570197	
1	2	13	85	1435		1.235668	
2	2	13	91.9	1133		2.101249	
3	1	13	98.2			3.45569	
4	3	13	59.9	1672	1137	3.997031	
5	2	13	54.5	1673		5.114073	
6	2	13	82.4	1536		6.242119	1
7	2	13	69.5	1498		6.787113	
8	2	13	99.1	1905		7.553589	
9	2	13	63.5	1240		8.517111	
10	2	13	98	1822		9.324461	
11	3	13	64.9	1907	1555	10.20824	
12	1	13	85.7			11.831314	

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	6	77.9	1871	1501	0.473488	1
1	1	6	70.7			1.539436	
2	1	6	87.2			2.181237	
3	2	6	56.9	1325		3.621113	
4	2	6	87.2	1803		4.484911	
5	3	6	81.2	1143	1615	5.363945	
6	2	6	52.2	1048		6.925859	
7	3	6	78.9	1035	1624	7.729471	
8	1	6	62			8.098185	
9	3	6	86.1	1140	1068	9.870949	
10	3	6	79.5	1566	1696	10.909529	
11	2	6	66.5	1107		11.969963	

Bin5 Statistics 27

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	19	72.5	1143		0.681056	1
1	1	19	70.1			1.685577	
2	2	19	58.8	1805		3.756041	
3	2	19	55.1	1173		5.0892	
4	3	19	70.4	1775	1596	6.282682	
5	1	19	59.5			6.710611	
6	1	19	70.6			8.336868	
7	2	19	89.2	1052		9.555152	
8	1	19	87.1			11.078505	

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	14	62.3	1089		0.265256	
1	1	14	65.6			1.6178	
2	2	14	61.1	1969		2.567	
3	2	14	82.7	1665		3.339656	
4	1	14	80.5			4.309596	
5	1	14	77.1			4.83846	
6	1	14	93.3			5.589236	1
7	2	14	81.8	1810		6.805091	
8	1	14	59			8.299989	
9	2	14	97.5	1446		9.019495	
10	2	14	56.2	1592		9.521435	
11	2	14	80.1	1278		10.532062	
12	3	14	84.7	1440	1047	11.599872	

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	7	56.1	1945		0.289655	
1	3	7	57.6	1779	1294	0.750381	
2	1	7	79.9			1.848607	
3	1	7	65.5			2.125735	
4	3	7	88.3	1846	1368	2.686204	
5	3	7	54	1916	1802	3.321713	
6	3	7	92.2	1880	1777	4.181691	
7	3	7	76.3	1240	1126	4.578685	
8	1	7	87.5			5.187418	
9	2	7	64.5	1118		5.996228	1
10	2	7	55.3	1441		6.447268	
11	2	7	70.3	1036		7.208701	
12	2	7	98.7	1499		7.706186	
13	2	7	92	1543		8.544634	
14	2	7	57.3	1362		9.221289	
15	2	7	94.6	1684		10.027495	
16	2	7	66.5	1522		10.418738	
17	3	7	96.3	1089	1803	11.110271	
18	1	7	99.2			11.690017	

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	13	72.6	1364		0.421964	1
1	2	13	58.3	1710		1.80961	
2	3	13	76	1119	1913	2.836934	
3	2	13	68.1	1352		3.215536	
4	2	13	50.7	1226		4.867907	
5	2	13	83.3	1345		5.383946	
6	2	13	96	1338		6.46128	
7	2	13	86.2	1621		7.817402	
8	1	13	92			8.408073	
9	2	13	60.2	1600		9.035915	
10	1	13	92.8			10.616624	
11	3	13	82.6	1462	1760	11.58621	

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	5617.0, 5595.0, 5451.0, 5692.0, 5625.0, 5261.0, 5356.0, 5502.0, 5419.0, 5405.0, 5301.0, 5260.0, 5362.0, 5375.0, 5408.0, 5415.0, 5481.0, 5710.0, 5635.0, 5427.0, 5274.0, 5650.0, 5712.0, 5611.0, 5503.0, 5466.0, 5624.0, 5340.0, 5334.0, 5343.0, 5653.0, 5629.0, 5416.0, 5290.0, 5483.0, 5525.0, 5670.0, 5702.0, 5276.0, 5374.0, 5306.0, 5448.0, 5279.0, 5717.0, 5325.0, 5339.0, 5454.0, 5642.0, 5708.0, 5418.0, 5638.0, 5468.0, 5430.0, 5540.0, 5317.0, 5681.0, 5478.0, 5271.0, 5676.0, 5548.0, 5523.0, 5602.0, 5542.0, 5450.0, 5697.0, 5648.0, 5538.0, 5380.0, 5386.0, 5603.0, 5545.0, 5711.0, 5684.0, 5652.0, 5442.0, 5556.0, 5422.0, 5315.0, 5432.0, 5472.0, 5400.0, 5485.0, 5381.0, 5342.0, 5453.0, 5571.0, 5663.0, 5718.0, 5269.0, 5659.0, 5532.0, 5402.0, 5283.0, 5323.0, 5287.0, 5552.0, 5600.0, 5421.0, 5633.0, 5363.0 (number of hits: 12)
2	5530	9	1	333	1	5271.0, 5578.0, 5422.0, 5564.0, 5302.0, 5275.0, 5444.0, 5682.0, 5325.0, 5305.0, 5251.0, 5327.0, 5626.0, 5639.0, 5671.0, 5385.0, 5405.0, 5538.0, 5399.0, 5548.0, 5652.0, 5516.0, 5457.0, 5285.0, 5593.0, 5525.0, 5668.0, 5544.0, 5341.0, 5502.0, 5363.0, 5381.0, 5667.0, 5328.0, 5500.0, 5446.0, 5336.0, 5520.0, 5590.0, 5278.0, 5337.0, 5291.0, 5393.0, 5635.0, 5549.0, 5580.0, 5558.0, 5612.0, 5470.0, 5391.0, 5383.0, 5624.0, 5364.0, 5716.0, 5605.0, 5250.0, 5496.0, 5394.0, 5390.0, 5387.0, 5537.0, 5435.0, 5550.0, 5521.0, 5493.0, 5570.0, 5309.0, 5310.0, 5685.0, 5575.0, 5693.0, 5499.0, 5507.0, 5531.0, 5709.0, 5382.0, 5406.0, 5539.0, 5596.0, 5429.0, 5268.0, 5648.0, 5276.0, 5304.0, 5694.0, 5400.0, 5420.0, 5510.0, 5540.0, 5555.0, 5286.0, 5392.0, 5371.0, 5681.0, 5360.0, 5622.0, 5545.0, 5467.0, 5267.0, 5607.0 (number of hits: 24)
3	5530	9	1	333	1	5465.0, 5553.0, 5652.0, 5498.0, 5691.0, 5658.0, 5540.0, 5366.0, 5615.0, 5330.0, 5421.0, 5707.0, 5678.0, 5405.0, 5669.0, 5473.0, 5414.0, 5350.0, 5349.0, 5702.0, 5402.0, 5303.0, 5358.0, 5392.0, 5690.0, 5659.0, 5677.0, 5606.0, 5629.0, 5495.0, 5269.0, 5280.0, 5531.0, 5320.0, 5427.0, 5550.0, 5526.0, 5383.0, 5592.0, 5346.0, 5689.0, 5636.0, 5413.0, 5505.0, 5589.0, 5573.0, 5719.0, 5439.0, 5305.0, 5422.0, 5578.0, 5377.0, 5507.0, 5466.0, 5698.0, 5296.0, 5630.0, 5336.0, 5257.0, 5355.0,

						5478.0, 5676.0, 5319.0, 5662.0, 5475.0, 5522.0, 5276.0, 5587.0, 5665.0, 5446.0, 5451.0, 5357.0, 5452.0, 5272.0, 5539.0, 5705.0, 5538.0, 5471.0, 5679.0, 5509.0, 5318.0, 5376.0, 5406.0, 5289.0, 5650.0, 5297.0, 5378.0, 5461.0, 5337.0, 5595.0, 5464.0, 5501.0, 5713.0, 5516.0, 5345.0, 5277.0, 5445.0, 5511.0, 5545.0, 5554.0 (number of hits: 18)
4	5530	9	1	333	1	5385.0, 5355.0, 5377.0, 5703.0, 5489.0, 5593.0, 5474.0, 5702.0, 5419.0, 5435.0, 5374.0, 5477.0, 5460.0, 5574.0, 5343.0, 5718.0, 5384.0, 5561.0, 5700.0, 5448.0, 5396.0, 5497.0, 5360.0, 5624.0, 5272.0, 5450.0, 5673.0, 5326.0, 5630.0, 5421.0, 5564.0, 5298.0, 5647.0, 5475.0, 5394.0, 5388.0, 5371.0, 5537.0, 5573.0, 5688.0, 5465.0, 5283.0, 5490.0, 5579.0, 5562.0, 5338.0, 5440.0, 5375.0, 5329.0, 5358.0, 5398.0, 5487.0, 5485.0, 5479.0, 5559.0, 5273.0, 5261.0, 5682.0, 5551.0, 5634.0, 5587.0, 5582.0, 5589.0, 5274.0, 5521.0, 5402.0, 5530.0, 5409.0, 5644.0, 5616.0, 5544.0, 5679.0, 5552.0, 5553.0, 5674.0, 5303.0, 5467.0, 5481.0, 5500.0, 5709.0, 5503.0, 5588.0, 5722.0, 5390.0, 5337.0, 5429.0, 5615.0, 5279.0, 5723.0, 5591.0, 5578.0, 5665.0, 5603.0, 5296.0, 5504.0, 5699.0, 5623.0, 5373.0, 5335.0, 5331.0 (number of hits: 15)
5	5530	9	1	333	1	5290.0, 5566.0, 5696.0, 5311.0, 5431.0, 5691.0, 5299.0, 5335.0, 5392.0, 5461.0, 5441.0, 5615.0, 5570.0, 5460.0, 5472.0, 5617.0, 5487.0, 5358.0, 5367.0, 5581.0, 5382.0, 5527.0, 5436.0, 5325.0, 5641.0, 5416.0, 5601.0, 5694.0, 5528.0, 5634.0, 5413.0, 5402.0, 5543.0, 5302.0, 5648.0, 5300.0, 5309.0, 5321.0, 5318.0, 5503.0, 5350.0, 5437.0, 5565.0, 5451.0, 5614.0, 5669.0, 5497.0, 5351.0, 5250.0, 5530.0, 5705.0, 5316.0, 5590.0, 5366.0, 5476.0, 5498.0, 5605.0, 5579.0, 5668.0, 5336.0, 5486.0, 5368.0, 5574.0, 5516.0, 5554.0, 5673.0, 5261.0, 5260.0, 5447.0, 5575.0, 5440.0, 5558.0, 5283.0, 5517.0, 5458.0, 5491.0, 5572.0, 5285.0, 5643.0, 5622.0, 5676.0, 5490.0, 5541.0, 5602.0, 5469.0, 5547.0, 5580.0, 5342.0, 5513.0, 5660.0, 5432.0, 5323.0, 5636.0, 5661.0, 5390.0, 5540.0, 5515.0, 5502.0, 5625.0, 5551.0 (number of hits: 20)
6	5530	9	1	333	1	5660.0, 5443.0, 5689.0, 5668.0, 5304.0, 5277.0, 5427.0, 5651.0, 5378.0, 5682.0, 5302.0, 5375.0, 5479.0, 5363.0, 5452.0, 5647.0, 5590.0, 5553.0, 5509.0, 5524.0, 5344.0, 5583.0, 5570.0, 5329.0, 5519.0, 5511.0, 5503.0, 5455.0, 5420.0, 5298.0, 5591.0, 5624.0, 5617.0, 5454.0, 5352.0, 5678.0, 5367.0, 5472.0, 5594.0, 5685.0,

						5439.0, 5383.0, 5695.0, 5622.0, 5564.0, 5576.0, 5361.0, 5362.0, 5635.0, 5502.0, 5580.0, 5407.0, 5681.0, 5434.0, 5650.0, 5387.0, 5471.0, 5437.0, 5642.0, 5723.0, 5364.0, 5392.0, 5614.0, 5638.0, 5628.0, 5269.0, 5305.0, 5639.0, 5355.0, 5390.0, 5379.0, 5473.0, 5711.0, 5601.0, 5653.0, 5648.0, 5643.0, 5485.0, 5358.0, 5589.0, 5680.0, 5417.0, 5581.0, 5350.0, 5477.0, 5441.0, 5516.0, 5268.0, 5377.0, 5556.0, 5587.0, 5430.0, 5422.0, 5370.0, 5453.0, 5715.0, 5418.0, 5599.0, 5449.0, 5656.0 (number of hits: 10)
7	5530	9	1	333	1	5677.0, 5424.0, 5487.0, 5362.0, 5520.0, 5534.0, 5540.0, 5670.0, 5571.0, 5530.0, 5370.0, 5673.0, 5349.0, 5671.0, 5575.0, 5703.0, 5657.0, 5527.0, 5667.0, 5456.0, 5620.0, 5371.0, 5706.0, 5549.0, 5712.0, 5260.0, 5507.0, 5605.0, 5516.0, 5627.0, 5255.0, 5304.0, 5695.0, 5409.0, 5532.0, 5610.0, 5580.0, 5275.0, 5283.0, 5331.0, 5614.0, 5384.0, 5502.0, 5514.0, 5644.0, 5563.0, 5630.0, 5360.0, 5692.0, 5618.0, 5297.0, 5289.0, 5505.0, 5465.0, 5523.0, 5338.0, 5339.0, 5454.0, 5570.0, 5398.0, 5431.0, 5258.0, 5382.0, 5355.0, 5277.0, 5566.0, 5269.0, 5458.0, 5689.0, 5411.0, 5625.0, 5701.0, 5615.0, 5583.0, 5252.0, 5441.0, 5390.0, 5569.0, 5554.0, 5684.0, 5307.0, 5603.0, 5412.0, 5259.0, 5556.0, 5464.0, 5300.0, 5475.0, 5479.0, 5279.0, 5664.0, 5634.0, 5399.0, 5276.0, 5613.0, 5337.0, 5585.0, 5429.0, 5711.0, 5322.0 (number of hits: 17)
8	5530	9	1	333	1	5276.0, 5576.0, 5646.0, 5406.0, 5722.0, 5552.0, 5657.0, 5639.0, 5368.0, 5703.0, 5599.0, 5688.0, 5464.0, 5498.0, 5678.0, 5534.0, 5574.0, 5439.0, 5443.0, 5357.0, 5711.0, 5684.0, 5708.0, 5305.0, 5303.0, 5311.0, 5349.0, 5358.0, 5680.0, 5636.0, 5382.0, 5261.0, 5355.0, 5659.0, 5655.0, 5315.0, 5274.0, 5386.0, 5561.0, 5328.0, 5605.0, 5502.0, 5286.0, 5467.0, 5696.0, 5660.0, 5308.0, 5388.0, 5399.0, 5337.0, 5537.0, 5620.0, 5281.0, 5294.0, 5714.0, 5542.0, 5465.0, 5323.0, 5336.0, 5284.0, 5325.0, 5567.0, 5665.0, 5632.0, 5363.0, 5518.0, 5479.0, 5270.0, 5448.0, 5654.0, 5430.0, 5719.0, 5256.0, 5360.0, 5477.0, 5462.0, 5269.0, 5610.0, 5606.0, 5371.0, 5717.0, 5531.0, 5409.0, 5473.0, 5525.0, 5321.0, 5523.0, 5482.0, 5681.0, 5484.0, 5385.0, 5584.0, 5381.0, 5295.0, 5562.0, 5549.0, 5339.0, 5417.0, 5407.0, 5510.0 (number of hits: 15)
9	5530	9	1	333	1	5501.0, 5712.0, 5369.0, 5457.0, 5320.0, 5454.0, 5555.0, 5610.0, 5435.0, 5313.0, 5363.0, 5291.0, 5650.0, 5595.0, 5720.0, 5511.0, 5719.0, 5496.0, 5371.0, 5665.0,

						5260.0, 5271.0, 5376.0, 5445.0, 5597.0, 5325.0, 5423.0, 5499.0, 5427.0, 5609.0, 5274.0, 5638.0, 5401.0, 5480.0, 5430.0, 5483.0, 5510.0, 5307.0, 5531.0, 5590.0, 5476.0, 5335.0, 5466.0, 5538.0, 5309.0, 5662.0, 5266.0, 5549.0, 5688.0, 5619.0, 5264.0, 5592.0, 5561.0, 5250.0, 5283.0, 5467.0, 5596.0, 5613.0, 5606.0, 5633.0, 5493.0, 5709.0, 5345.0, 5258.0, 5707.0, 5290.0, 5529.0, 5475.0, 5612.0, 5700.0, 5599.0, 5436.0, 5695.0, 5594.0, 5279.0, 5679.0, 5331.0, 5322.0, 5299.0, 5330.0, 5317.0, 5603.0, 5270.0, 5710.0, 5348.0, 5269.0, 5505.0, 5699.0, 5366.0, 5434.0, 5297.0, 5553.0, 5278.0, 5636.0, 5280.0, 5586.0, 5484.0, 5487.0, 5563.0, 5486.0 (number of hits: 15)
10	5530	9	1	333	1	5683.0, 5506.0, 5553.0, 5405.0, 5255.0, 5413.0, 5296.0, 5298.0, 5628.0, 5321.0, 5688.0, 5533.0, 5414.0, 5278.0, 5696.0, 5668.0, 5673.0, 5368.0, 5316.0, 5665.0, 5401.0, 5495.0, 5482.0, 5257.0, 5419.0, 5349.0, 5613.0, 5326.0, 5300.0, 5578.0, 5532.0, 5497.0, 5604.0, 5342.0, 5518.0, 5474.0, 5636.0, 5483.0, 5416.0, 5303.0, 5616.0, 5490.0, 5547.0, 5519.0, 5410.0, 5330.0, 5714.0, 5310.0, 5356.0, 5369.0, 5339.0, 5452.0, 5440.0, 5450.0, 5664.0, 5468.0, 5546.0, 5379.0, 5347.0, 5677.0, 5596.0, 5331.0, 5382.0, 5531.0, 5700.0, 5556.0, 5492.0, 5666.0, 5694.0, 5607.0, 5659.0, 5421.0, 5366.0, 5350.0, 5690.0, 5526.0, 5641.0, 5274.0, 5619.0, 5649.0, 5315.0, 5404.0, 5323.0, 5515.0, 5344.0, 5435.0, 5267.0, 5279.0, 5430.0, 5661.0, 5453.0, 5638.0, 5520.0, 5535.0, 5434.0, 5721.0, 5524.0, 5566.0, 5275.0, 5685.0 (number of hits: 19)
11	5490	9	1	333	1	5449.0, 5544.0, 5442.0, 5525.0, 5313.0, 5348.0, 5499.0, 5385.0, 5703.0, 5584.0, 5398.0, 5405.0, 5417.0, 5681.0, 5451.0, 5527.0, 5437.0, 5571.0, 5295.0, 5343.0, 5564.0, 5598.0, 5464.0, 5677.0, 5532.0, 5262.0, 5570.0, 5476.0, 5344.0, 5315.0, 5468.0, 5366.0, 5431.0, 5407.0, 5441.0, 5685.0, 5356.0, 5365.0, 5329.0, 5284.0, 5302.0, 5557.0, 5432.0, 5256.0, 5433.0, 5622.0, 5648.0, 5662.0, 5692.0, 5515.0, 5369.0, 5305.0, 5555.0, 5349.0, 5531.0, 5519.0, 5702.0, 5655.0, 5388.0, 5341.0, 5269.0, 5371.0, 5430.0, 5560.0, 5670.0, 5719.0, 5704.0, 5590.0, 5621.0, 5410.0, 5611.0, 5296.0, 5345.0, 5581.0, 5253.0, 5663.0, 5494.0, 5536.0, 5267.0, 5582.0, 5675.0, 5614.0, 5713.0, 5340.0, 5378.0, 5282.0, 5652.0, 5712.0, 5679.0, 5600.0, 5589.0, 5631.0, 5337.0, 5495.0, 5347.0, 5381.0, 5301.0, 5554.0, 5290.0, 5434.0 (number of hits: 10)

12	5490	9	1	333	1	5484.0, 5609.0, 5449.0, 5690.0, 5452.0, 5513.0, 5426.0, 5639.0, 5495.0, 5589.0, 5271.0, 5695.0, 5518.0, 5533.0, 5372.0, 5255.0, 5323.0, 5259.0, 5605.0, 5329.0, 5269.0, 5453.0, 5483.0, 5650.0, 5337.0, 5350.0, 5357.0, 5457.0, 5422.0, 5285.0, 5318.0, 5590.0, 5288.0, 5664.0, 5537.0, 5530.0, 5544.0, 5559.0, 5293.0, 5719.0, 5256.0, 5627.0, 5381.0, 5403.0, 5515.0, 5707.0, 5617.0, 5274.0, 5581.0, 5287.0, 5468.0, 5628.0, 5295.0, 5376.0, 5324.0, 5722.0, 5351.0, 5347.0, 5517.0, 5464.0, 5528.0, 5642.0, 5505.0, 5576.0, 5481.0, 5380.0, 5615.0, 5625.0, 5296.0, 5345.0, 5379.0, 5432.0, 5682.0, 5463.0, 5569.0, 5416.0, 5319.0, 5276.0, 5490.0, 5552.0, 5602.0, 5409.0, 5648.0, 5685.0, 5525.0, 5447.0, 5646.0, 5692.0, 5585.0, 5394.0, 5497.0, 5355.0, 5268.0, 5397.0, 5486.0, 5701.0, 5630.0, 5314.0, 5291.0, 5360.0 (number of hits: 19)
13	5490	9	1	333	1	5516.0, 5403.0, 5309.0, 5632.0, 5705.0, 5707.0, 5616.0, 5434.0, 5298.0, 5560.0, 5688.0, 5413.0, 5324.0, 5536.0, 5266.0, 5592.0, 5563.0, 5540.0, 5604.0, 5565.0, 5442.0, 5307.0, 5562.0, 5376.0, 5659.0, 5481.0, 5541.0, 5647.0, 5571.0, 5334.0, 5530.0, 5482.0, 5486.0, 5689.0, 5611.0, 5340.0, 5458.0, 5430.0, 5496.0, 5425.0, 5613.0, 5495.0, 5595.0, 5534.0, 5418.0, 5715.0, 5519.0, 5297.0, 5449.0, 5460.0, 5491.0, 5683.0, 5370.0, 5549.0, 5255.0, 5294.0, 5473.0, 5251.0, 5384.0, 5535.0, 5518.0, 5669.0, 5668.0, 5385.0, 5625.0, 5623.0, 5619.0, 5656.0, 5303.0, 5411.0, 5590.0, 5280.0, 5492.0, 5341.0, 5364.0, 5584.0, 5527.0, 5318.0, 5457.0, 5513.0, 5417.0, 5421.0, 5617.0, 5706.0, 5302.0, 5377.0, 5573.0, 5389.0, 5306.0, 5554.0, 5436.0, 5576.0, 5362.0, 5690.0, 5493.0, 5521.0, 5290.0, 5702.0, 5691.0, 5452.0 (number of hits: 19)
14	5490	9	1	333	1	5452.0, 5534.0, 5471.0, 5316.0, 5390.0, 5490.0, 5402.0, 5626.0, 5343.0, 5512.0, 5364.0, 5385.0, 5585.0, 5336.0, 5660.0, 5281.0, 5620.0, 5278.0, 5370.0, 5256.0, 5535.0, 5328.0, 5536.0, 5556.0, 5331.0, 5411.0, 5574.0, 5491.0, 5252.0, 5615.0, 5494.0, 5448.0, 5456.0, 5305.0, 5691.0, 5319.0, 5570.0, 5427.0, 5404.0, 5588.0, 5664.0, 5313.0, 5462.0, 5704.0, 5495.0, 5625.0, 5399.0, 5273.0, 5553.0, 5374.0, 5441.0, 5457.0, 5530.0, 5677.0, 5724.0, 5453.0, 5578.0, 5665.0, 5330.0, 5589.0, 5540.0, 5547.0, 5394.0, 5715.0, 5642.0, 5304.0, 5493.0, 5415.0, 5630.0, 5410.0, 5498.0, 5697.0, 5445.0, 5515.0, 5712.0, 5703.0, 5662.0, 5422.0, 5701.0, 5710.0, 5309.0, 5347.0, 5481.0, 5275.0, 5276.0,

						5661.0, 5526.0, 5716.0, 5409.0, 5682.0, 5266.0, 5513.0, 5324.0, 5285.0, 5258.0, 5259.0, 5700.0, 5595.0, 5356.0, 5458.0 (number of hits: 18)
15	5490	9	1	333	1	5493.0, 5712.0, 5258.0, 5434.0, 5620.0, 5672.0, 5427.0, 5358.0, 5643.0, 5291.0, 5577.0, 5571.0, 5300.0, 5496.0, 5552.0, 5480.0, 5474.0, 5663.0, 5490.0, 5297.0, 5628.0, 5466.0, 5271.0, 5689.0, 5653.0, 5461.0, 5465.0, 5365.0, 5417.0, 5354.0, 5544.0, 5451.0, 5452.0, 5482.0, 5252.0, 5356.0, 5494.0, 5539.0, 5440.0, 5390.0, 5361.0, 5574.0, 5400.0, 5296.0, 5580.0, 5509.0, 5256.0, 5416.0, 5294.0, 5376.0, 5276.0, 5453.0, 5459.0, 5550.0, 5677.0, 5641.0, 5583.0, 5647.0, 5259.0, 5606.0, 5548.0, 5706.0, 5598.0, 5310.0, 5695.0, 5327.0, 5270.0, 5457.0, 5263.0, 5589.0, 5667.0, 5579.0, 5429.0, 5357.0, 5396.0, 5454.0, 5564.0, 5717.0, 5567.0, 5515.0, 5632.0, 5320.0, 5325.0, 5302.0, 5661.0, 5355.0, 5594.0, 5570.0, 5590.0, 5547.0, 5523.0, 5404.0, 5615.0, 5716.0, 5601.0, 5366.0, 5612.0, 5682.0, 5488.0, 5676.0 (number of hits: 19)
16	5490	9	1	333	1	5262.0, 5687.0, 5395.0, 5595.0, 5272.0, 5644.0, 5589.0, 5628.0, 5400.0, 5639.0, 5397.0, 5614.0, 5315.0, 5646.0, 5579.0, 5320.0, 5326.0, 5458.0, 5516.0, 5584.0, 5286.0, 5511.0, 5454.0, 5667.0, 5372.0, 5275.0, 5692.0, 5489.0, 5586.0, 5499.0, 5386.0, 5496.0, 5478.0, 5485.0, 5702.0, 5526.0, 5260.0, 5371.0, 5508.0, 5356.0, 5641.0, 5452.0, 5296.0, 5293.0, 5664.0, 5669.0, 5263.0, 5666.0, 5487.0, 5305.0, 5564.0, 5551.0, 5542.0, 5580.0, 5331.0, 5363.0, 5599.0, 5428.0, 5392.0, 5359.0, 5426.0, 5509.0, 5433.0, 5631.0, 5484.0, 5311.0, 5270.0, 5568.0, 5300.0, 5413.0, 5379.0, 5267.0, 5531.0, 5459.0, 5553.0, 5453.0, 5486.0, 5474.0, 5312.0, 5369.0, 5688.0, 5523.0, 5662.0, 5571.0, 5349.0, 5650.0, 5722.0, 5388.0, 5451.0, 5294.0, 5481.0, 5536.0, 5282.0, 5269.0, 5660.0, 5466.0, 5546.0, 5298.0, 5327.0, 5625.0 (number of hits: 22)
17	5490	9	1	333	1	5509.0, 5260.0, 5534.0, 5347.0, 5570.0, 5285.0, 5689.0, 5687.0, 5606.0, 5314.0, 5368.0, 5412.0, 5663.0, 5280.0, 5402.0, 5486.0, 5405.0, 5720.0, 5360.0, 5491.0, 5371.0, 5666.0, 5699.0, 5515.0, 5458.0, 5542.0, 5529.0, 5602.0, 5433.0, 5608.0, 5594.0, 5283.0, 5662.0, 5487.0, 5560.0, 5257.0, 5407.0, 5369.0, 5618.0, 5592.0, 5420.0, 5484.0, 5611.0, 5294.0, 5393.0, 5437.0, 5624.0, 5493.0, 5635.0, 5708.0, 5451.0, 5544.0, 5495.0, 5641.0, 5510.0, 5498.0, 5356.0, 5351.0, 5362.0, 5587.0, 5667.0, 5506.0, 5479.0, 5304.0, 5532.0,

						5448.0, 5483.0, 5456.0, 5408.0, 5704.0, 5417.0, 5637.0, 5445.0, 5391.0, 5620.0, 5268.0, 5377.0, 5253.0, 5259.0, 5443.0, 5718.0, 5577.0, 5603.0, 5460.0, 5696.0, 5654.0, 5411.0, 5311.0, 5434.0, 5421.0, 5719.0, 5613.0, 5468.0, 5535.0, 5701.0, 5692.0, 5400.0, 5265.0, 5664.0, 5372.0 (number of hits: 17)
18	5490	9	1	333	1	5489.0, 5446.0, 5684.0, 5523.0, 5624.0, 5476.0, 5618.0, 5285.0, 5559.0, 5554.0, 5538.0, 5700.0, 5420.0, 5547.0, 5718.0, 5632.0, 5473.0, 5675.0, 5270.0, 5291.0, 5305.0, 5484.0, 5336.0, 5513.0, 5723.0, 5630.0, 5413.0, 5451.0, 5580.0, 5626.0, 5461.0, 5611.0, 5579.0, 5557.0, 5321.0, 5577.0, 5457.0, 5368.0, 5310.0, 5406.0, 5674.0, 5502.0, 5620.0, 5603.0, 5666.0, 5664.0, 5649.0, 5589.0, 5545.0, 5325.0, 5584.0, 5340.0, 5320.0, 5655.0, 5408.0, 5439.0, 5493.0, 5658.0, 5487.0, 5479.0, 5533.0, 5289.0, 5709.0, 5275.0, 5454.0, 5673.0, 5682.0, 5508.0, 5575.0, 5428.0, 5647.0, 5475.0, 5553.0, 5708.0, 5610.0, 5265.0, 5680.0, 5685.0, 5593.0, 5687.0, 5329.0, 5653.0, 5331.0, 5443.0, 5254.0, 5535.0, 5541.0, 5672.0, 5427.0, 5421.0, 5483.0, 5582.0, 5391.0, 5506.0, 5561.0, 5389.0, 5697.0, 5322.0, 5256.0, 5252.0 (number of hits: 17)
19	5490	9	1	333	1	5273.0, 5271.0, 5419.0, 5492.0, 5400.0, 5586.0, 5695.0, 5656.0, 5568.0, 5607.0, 5289.0, 5325.0, 5596.0, 5650.0, 5552.0, 5349.0, 5579.0, 5344.0, 5467.0, 5515.0, 5594.0, 5603.0, 5314.0, 5679.0, 5627.0, 5477.0, 5517.0, 5641.0, 5330.0, 5620.0, 5469.0, 5628.0, 5470.0, 5484.0, 5713.0, 5337.0, 5286.0, 5538.0, 5438.0, 5619.0, 5466.0, 5561.0, 5532.0, 5448.0, 5652.0, 5701.0, 5557.0, 5317.0, 5407.0, 5506.0, 5307.0, 5683.0, 5588.0, 5341.0, 5287.0, 5494.0, 5696.0, 5389.0, 5614.0, 5553.0, 5430.0, 5461.0, 5592.0, 5429.0, 5698.0, 5387.0, 5316.0, 5537.0, 5554.0, 5490.0, 5655.0, 5483.0, 5712.0, 5637.0, 5444.0, 5403.0, 5661.0, 5544.0, 5306.0, 5392.0, 5644.0, 5648.0, 5292.0, 5342.0, 5709.0, 5313.0, 5426.0, 5646.0, 5347.0, 5577.0, 5512.0, 5326.0, 5318.0, 5394.0, 5674.0, 5298.0, 5662.0, 5381.0, 5653.0, 5404.0 (number of hits: 15)
20	5490	9	1	333	1	5359.0, 5341.0, 5669.0, 5652.0, 5334.0, 5605.0, 5644.0, 5256.0, 5363.0, 5543.0, 5276.0, 5620.0, 5259.0, 5699.0, 5591.0, 5488.0, 5521.0, 5565.0, 5354.0, 5530.0, 5278.0, 5674.0, 5481.0, 5672.0, 5353.0, 5661.0, 5555.0, 5388.0, 5596.0, 5709.0, 5436.0, 5501.0, 5410.0, 5589.0, 5376.0, 5619.0, 5440.0, 5715.0, 5710.0, 5664.0, 5581.0, 5281.0, 5284.0, 5329.0, 5319.0,

						5307.0, 5549.0, 5408.0, 5272.0, 5701.0, 5379.0, 5382.0, 5399.0, 5482.0, 5647.0, 5520.0, 5670.0, 5298.0, 5323.0, 5588.0, 5445.0, 5254.0, 5327.0, 5654.0, 5554.0, 5394.0, 5352.0, 5419.0, 5262.0, 5467.0, 5441.0, 5606.0, 5267.0, 5328.0, 5431.0, 5512.0, 5405.0, 5532.0, 5531.0, 5528.0, 5479.0, 5696.0, 5337.0, 5472.0, 5685.0, 5575.0, 5371.0, 5478.0, 5391.0, 5603.0, 5313.0, 5593.0, 5498.0, 5641.0, 5582.0, 5250.0, 5451.0, 5705.0, 5447.0, 5522.0 (number of hits: 13)
21	5570	9	1	333	1	5522.0, 5417.0, 5490.0, 5470.0, 5545.0, 5501.0, 5589.0, 5306.0, 5649.0, 5449.0, 5466.0, 5642.0, 5570.0, 5307.0, 5517.0, 5617.0, 5436.0, 5424.0, 5319.0, 5280.0, 5433.0, 5563.0, 5351.0, 5663.0, 5381.0, 5409.0, 5384.0, 5618.0, 5561.0, 5685.0, 5557.0, 5372.0, 5261.0, 5463.0, 5312.0, 5719.0, 5531.0, 5674.0, 5461.0, 5639.0, 5656.0, 5698.0, 5596.0, 5455.0, 5631.0, 5278.0, 5638.0, 5702.0, 5370.0, 5431.0, 5495.0, 5348.0, 5373.0, 5400.0, 5377.0, 5339.0, 5627.0, 5271.0, 5689.0, 5629.0, 5253.0, 5529.0, 5636.0, 5430.0, 5421.0, 5695.0, 5524.0, 5474.0, 5345.0, 5553.0, 5610.0, 5547.0, 5488.0, 5668.0, 5562.0, 5659.0, 5359.0, 5456.0, 5251.0, 5565.0, 5564.0, 5437.0, 5489.0, 5623.0, 5458.0, 5525.0, 5408.0, 5542.0, 5573.0, 5426.0, 5539.0, 5587.0, 5620.0, 5411.0, 5404.0, 5548.0, 5651.0, 5323.0, 5264.0, 5503.0 (number of hits: 17)
22	5570	9	1	333	1	5279.0, 5309.0, 5300.0, 5640.0, 5495.0, 5678.0, 5278.0, 5381.0, 5598.0, 5448.0, 5698.0, 5512.0, 5415.0, 5340.0, 5399.0, 5680.0, 5700.0, 5570.0, 5662.0, 5561.0, 5615.0, 5572.0, 5379.0, 5719.0, 5254.0, 5604.0, 5631.0, 5358.0, 5704.0, 5534.0, 5645.0, 5690.0, 5411.0, 5355.0, 5675.0, 5591.0, 5327.0, 5353.0, 5361.0, 5255.0, 5435.0, 5611.0, 5362.0, 5294.0, 5344.0, 5544.0, 5490.0, 5710.0, 5666.0, 5258.0, 5410.0, 5265.0, 5297.0, 5508.0, 5693.0, 5589.0, 5620.0, 5331.0, 5498.0, 5467.0, 5663.0, 5329.0, 5628.0, 5555.0, 5594.0, 5346.0, 5471.0, 5269.0, 5284.0, 5721.0, 5657.0, 5574.0, 5424.0, 5295.0, 5305.0, 5274.0, 5554.0, 5474.0, 5428.0, 5336.0, 5386.0, 5319.0, 5423.0, 5665.0, 5446.0, 5546.0, 5723.0, 5485.0, 5705.0, 5285.0, 5414.0, 5489.0, 5606.0, 5431.0, 5363.0, 5326.0, 5648.0, 5526.0, 5578.0, 5394.0 (number of hits: 16)
23	5570	9	1	333	1	5443.0, 5523.0, 5303.0, 5581.0, 5707.0, 5650.0, 5596.0, 5600.0, 5378.0, 5505.0, 5470.0, 5615.0, 5544.0, 5337.0, 5462.0, 5405.0, 5302.0, 5313.0, 5580.0, 5503.0, 5613.0, 5283.0, 5459.0, 5667.0, 5496.0,

						5341.0, 5591.0, 5414.0, 5309.0, 5371.0, 5261.0, 5718.0, 5315.0, 5561.0, 5448.0, 5318.0, 5415.0, 5345.0, 5697.0, 5632.0, 5291.0, 5258.0, 5626.0, 5557.0, 5434.0, 5682.0, 5472.0, 5598.0, 5618.0, 5411.0, 5484.0, 5645.0, 5417.0, 5634.0, 5306.0, 5606.0, 5687.0, 5607.0, 5547.0, 5551.0, 5548.0, 5425.0, 5635.0, 5391.0, 5419.0, 5690.0, 5437.0, 5683.0, 5586.0, 5393.0, 5588.0, 5418.0, 5399.0, 5631.0, 5294.0, 5335.0, 5651.0, 5497.0, 5316.0, 5300.0, 5324.0, 5451.0, 5409.0, 5287.0, 5331.0, 5330.0, 5512.0, 5695.0, 5450.0, 5661.0, 5567.0, 5601.0, 5686.0, 5659.0, 5633.0, 5282.0, 5536.0, 5488.0, 5702.0, 5560.0 (number of hits: 20)
24	5570	9	1	333	1	5346.0, 5713.0, 5293.0, 5375.0, 5461.0, 5577.0, 5592.0, 5529.0, 5289.0, 5557.0, 5670.0, 5719.0, 5522.0, 5382.0, 5552.0, 5682.0, 5621.0, 5599.0, 5292.0, 5632.0, 5603.0, 5449.0, 5604.0, 5512.0, 5267.0, 5498.0, 5612.0, 5497.0, 5570.0, 5503.0, 5664.0, 5559.0, 5525.0, 5672.0, 5330.0, 5351.0, 5463.0, 5429.0, 5366.0, 5367.0, 5662.0, 5353.0, 5265.0, 5687.0, 5638.0, 5569.0, 5681.0, 5721.0, 5294.0, 5650.0, 5397.0, 5580.0, 5421.0, 5440.0, 5459.0, 5693.0, 5486.0, 5300.0, 5466.0, 5594.0, 5562.0, 5401.0, 5470.0, 5505.0, 5474.0, 5514.0, 5419.0, 5379.0, 5475.0, 5477.0, 5680.0, 5654.0, 5639.0, 5589.0, 5251.0, 5520.0, 5338.0, 5509.0, 5657.0, 5507.0, 5371.0, 5701.0, 5582.0, 5591.0, 5383.0, 5323.0, 5523.0, 5431.0, 5317.0, 5365.0, 5668.0, 5571.0, 5711.0, 5303.0, 5653.0, 5390.0, 5281.0, 5648.0, 5282.0, 5377.0 (number of hits: 17)
25	5570	9	1	333	1	5625.0, 5319.0, 5684.0, 5594.0, 5489.0, 5257.0, 5276.0, 5398.0, 5590.0, 5265.0, 5433.0, 5722.0, 5390.0, 5417.0, 5606.0, 5394.0, 5578.0, 5259.0, 5472.0, 5318.0, 5366.0, 5491.0, 5430.0, 5480.0, 5495.0, 5719.0, 5707.0, 5405.0, 5479.0, 5628.0, 5457.0, 5565.0, 5602.0, 5258.0, 5315.0, 5663.0, 5471.0, 5301.0, 5273.0, 5277.0, 5354.0, 5439.0, 5632.0, 5503.0, 5568.0, 5308.0, 5542.0, 5362.0, 5454.0, 5373.0, 5399.0, 5716.0, 5409.0, 5620.0, 5701.0, 5721.0, 5293.0, 5490.0, 5481.0, 5591.0, 5436.0, 5424.0, 5588.0, 5538.0, 5509.0, 5261.0, 5361.0, 5264.0, 5331.0, 5577.0, 5554.0, 5483.0, 5493.0, 5462.0, 5352.0, 5355.0, 5397.0, 5566.0, 5477.0, 5552.0, 5615.0, 5389.0, 5525.0, 5711.0, 5592.0, 5600.0, 5595.0, 5623.0, 5253.0, 5263.0, 5664.0, 5474.0, 5653.0, 5712.0, 5546.0, 5455.0, 5657.0, 5374.0, 5541.0, 5497.0 (number of hits: 20)
26	5570	9	1	333	1	5339.0, 5635.0, 5661.0, 5621.0, 5502.0,

						5707.0, 5414.0, 5343.0, 5358.0, 5537.0, 5446.0, 5646.0, 5684.0, 5340.0, 5626.0, 5514.0, 5481.0, 5386.0, 5583.0, 5667.0, 5557.0, 5620.0, 5395.0, 5560.0, 5483.0, 5615.0, 5566.0, 5312.0, 5425.0, 5645.0, 5658.0, 5420.0, 5611.0, 5381.0, 5693.0, 5277.0, 5532.0, 5619.0, 5688.0, 5304.0, 5704.0, 5676.0, 5356.0, 5463.0, 5541.0, 5387.0, 5592.0, 5454.0, 5529.0, 5718.0, 5350.0, 5303.0, 5317.0, 5493.0, 5391.0, 5426.0, 5471.0, 5554.0, 5326.0, 5651.0, 5462.0, 5579.0, 5547.0, 5282.0, 5685.0, 5397.0, 5546.0, 5331.0, 5274.0, 5614.0, 5405.0, 5556.0, 5476.0, 5361.0, 5464.0, 5349.0, 5390.0, 5259.0, 5510.0, 5385.0, 5281.0, 5297.0, 5576.0, 5394.0, 5630.0, 5663.0, 5366.0, 5330.0, 5298.0, 5516.0, 5590.0, 5447.0, 5482.0, 5492.0, 5665.0, 5535.0, 5701.0, 5577.0, 5649.0, 5497.0 (number of hits: 17)
27	5570	9	1	333	1	5606.0, 5517.0, 5552.0, 5385.0, 5332.0, 5686.0, 5303.0, 5364.0, 5703.0, 5449.0, 5715.0, 5697.0, 5392.0, 5644.0, 5588.0, 5448.0, 5308.0, 5354.0, 5333.0, 5541.0, 5714.0, 5457.0, 5640.0, 5351.0, 5652.0, 5348.0, 5263.0, 5480.0, 5643.0, 5670.0, 5510.0, 5427.0, 5264.0, 5292.0, 5689.0, 5696.0, 5569.0, 5261.0, 5276.0, 5545.0, 5415.0, 5529.0, 5530.0, 5687.0, 5636.0, 5573.0, 5311.0, 5672.0, 5482.0, 5314.0, 5337.0, 5410.0, 5534.0, 5406.0, 5274.0, 5267.0, 5287.0, 5429.0, 5466.0, 5300.0, 5717.0, 5437.0, 5616.0, 5508.0, 5705.0, 5318.0, 5440.0, 5628.0, 5301.0, 5363.0, 5609.0, 5593.0, 5514.0, 5723.0, 5492.0, 5367.0, 5598.0, 5251.0, 5275.0, 5315.0, 5531.0, 5288.0, 5512.0, 5293.0, 5380.0, 5635.0, 5414.0, 5341.0, 5420.0, 5589.0, 5343.0, 5522.0, 5638.0, 5383.0, 5289.0, 5463.0, 5634.0, 5394.0, 5297.0, 5570.0 (number of hits: 12)
28	5570	9	1	333	0	0
29	5570	9	1	333	1	5399.0, 5259.0, 5390.0, 5516.0, 5688.0, 5708.0, 5261.0, 5360.0, 5525.0, 5292.0, 5333.0, 5536.0, 5313.0, 5439.0, 5337.0, 5463.0, 5710.0, 5338.0, 5266.0, 5582.0, 5322.0, 5446.0, 5714.0, 5464.0, 5608.0, 5386.0, 5690.0, 5276.0, 5294.0, 5472.0, 5423.0, 5306.0, 5348.0, 5272.0, 5539.0, 5681.0, 5309.0, 5683.0, 5392.0, 5277.0, 5592.0, 5434.0, 5718.0, 5314.0, 5403.0, 5425.0, 5642.0, 5483.0, 5404.0, 5286.0, 5658.0, 5554.0, 5435.0, 5564.0, 5436.0, 5370.0, 5331.0, 5520.0, 5328.0, 5291.0, 5707.0, 5599.0, 5300.0, 5716.0, 5413.0, 5609.0, 5571.0, 5414.0, 5501.0, 5393.0, 5336.0, 5657.0, 5384.0, 5613.0, 5527.0, 5281.0, 5351.0, 5280.0, 5354.0, 5600.0, 5499.0, 5614.0, 5418.0, 5500.0, 5526.0,

						5304.0, 5455.0, 5668.0, 5597.0, 5334.0, 5676.0, 5547.0, 5421.0, 5530.0, 5477.0, 5424.0, 5457.0, 5326.0, 5253.0, 5443.0 (number of hits: 11)
30	5570	9	1	333	1	5483.0, 5535.0, 5302.0, 5502.0, 5450.0, 5496.0, 5250.0, 5448.0, 5456.0, 5426.0, 5590.0, 5696.0, 5469.0, 5437.0, 5334.0, 5565.0, 5305.0, 5605.0, 5545.0, 5463.0, 5556.0, 5594.0, 5265.0, 5663.0, 5332.0, 5253.0, 5521.0, 5361.0, 5697.0, 5577.0, 5561.0, 5297.0, 5564.0, 5458.0, 5307.0, 5533.0, 5692.0, 5619.0, 5517.0, 5298.0, 5261.0, 5705.0, 5348.0, 5468.0, 5389.0, 5578.0, 5593.0, 5435.0, 5491.0, 5476.0, 5494.0, 5294.0, 5566.0, 5677.0, 5472.0, 5557.0, 5264.0, 5643.0, 5712.0, 5683.0, 5330.0, 5429.0, 5681.0, 5647.0, 5380.0, 5365.0, 5651.0, 5425.0, 5347.0, 5319.0, 5470.0, 5276.0, 5449.0, 5424.0, 5689.0, 5480.0, 5446.0, 5701.0, 5401.0, 5300.0, 5570.0, 5323.0, 5355.0, 5691.0, 5354.0, 5422.0, 5572.0, 5558.0, 5500.0, 5539.0, 5477.0, 5314.0, 5364.0, 5504.0, 5656.0, 5325.0, 5278.0, 5451.0, 5569.0, 5312.0 (number of hits: 20)

10 Appendix

The following exhibits can be found in R1808244-DFS Photo Reports:

- Annex B – EUT Test Setup Photographs

11 Annex A (Normative) - A2LA Electrical Testing Certificate

Accredited Laboratory

A2LA has accredited

BAY AREA COMPLIANCE LABORATORIES CORP.

Sunnyvale, CA

for technical competence in the field of

Electrical Testing

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

Presented this 2nd day of October 2018.

President and CEO
For the Accreditation Council
Certificate Number 3297.02
Valid to September 30, 2020

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

--- END OF REPORT ---