FCC PART 15.407
IC RSS-210, ISSUE 8
DYNAMIC FREQUENCY SELECTION
TEST AND MEASUREMENT REPORT

For

Mimosa Networks

300 Orchard City Dr., Suite 100, Campbell, CA 95008, USA

FCC ID: 2ABZJ-100-00001
IC: 11823A-10000001

Report Type:	**Equipment Type:**
Original Report	Point-to-point Device

Prepared By	Chen Ge
Report Number	R1402141-DFS
Report Date	2014-10-16
Reviewed By	Bo Li Test Engineer

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

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

TABLE OF CONTENTS

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	R1402141-DFS	Original Report	2014-04-08
A	R1402141-DFS	Removed Internal Photos	2014-10-16

1 General Description

1.1 Product Description for Equipment under Test (EUT)

This test and measurement report was prepared on behalf of *Mimosa Networks* And their product, model number: B5 or the "EUT" as referred on this report is point-to-point device. The device was tested with host Mimosa Networks.

1.2 Mechanical Description of EUT

The EUT measures approximately 17.3 cm (L) x 17.3 cm (W) x 7.3 cm (H) and weighs 3.2kg.

The test data gathered are from typical production sample, serial number: 1346101000017 assigned by manufacturer.

1.3 Objective

This report is prepared on behalf of *Mimosa Networks* in accordance with FCC CFR47 §15.407 (h), RSS-210, Issue 8, Dec 2010 and FCC 06-96 Appendix.

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

1.4 Related Submittal(s)/Grant(s)

N/A

1.5 Test Methodology

FCC CFR 47 Part2, Part15.407 (h)

FCC 06-96 Appendix "COMPLIANCE MEASUREMENT PROCEDURES FOR UNLICENSED NATIONAL INFORMATION INFRASTRUCTURE DEVICES OPERATING IN THE 5250-5350 MHz AND 5470-5725 MHz BANDS INCORPORATING DYNAMIC FREQUENCY SELECTION"

1.6 Test Facility

Bay Area Compliance Laboratories Corp. (BACL) is:

1- An independent Commercial Test Laboratory accredited to **ISO 17025: 2005** by **A2LA**, in the fields of: Electromagnetic Compatibility & Telecommunications covering Emissions, Immunity, Radio, RF Exposure, Safety and Telecom. This includes NEBS (Network Equipment Building System), Wireless RF, Telecommunications Terminal Equipment (TTE); Network Equipment; Information Technology Equipment (ITE); Medical Electrical Equipment; Industrial, Commercial, and Medical Test Equipment; Professional Audio and Video Equipment; Electronic (Digital) Products; Industrial and Scientific Instruments; Cabled Distribution Systems and Energy Efficiency Lighting.

2- An ENERGY STAR Recognized Laboratory, for the LM80 Testing, a wide variety of Luminaires and Computers.

3- A NIST Designated Phase-I and Phase-II CAB including: ACMA (Australian Communication and Media Authority), BSMI (Bureau of Standards, Metrology and Inspection of Taiwan), IDA (Infocomm Development Authority of Singapore), IC (Industry Canada), Korea (Ministry of Communications Radio Research Laboratory), NCC (Formerly DGT; Directorate General of Telecommunication of Chinese Taipei) OFTA (Office of the Telecommunications Authority of Hong Kong), Vietnam, VCCI - Voluntary Control Council for Interference of Japan and a designated EU CAB (Conformity Assessment Body) (Notified Body) for the EMC and R&TTE Directives.

4 - A Product Certification Body accredited to **ISO Guide 65: 1996** by **A2LA** to certify:
1- Unlicensed, Licensed radio frequency devices and Telephone Terminal Equipment for the FCC. Scope A1, A2, A3, A4, B1, B2, B3, B4 & C.
2. Radio Standards Specifications (RSS) in the Category I Equipment Standards List and All Broadcasting Technical Standards (BETS) in Category I Equipment Standards List for Industry Canada.
3. Radio Communication Equipment for Singapore.
4. Radio Equipment Specifications, GMDSS Marine Radio Equipment Specifications, and Fixed Network Equipment Specifications for Hong Kong.
5. Japan MIC Telecommunication Business Law (A1, A2) and Radio Law (B1, B2 and B3).
6. Audio/Video, Battery Charging Systems, Computers, Displays, Enterprise Servers, Imaging Equipment, Set-Top Boxes, Telephony, Televisions, Ceiling Fans, CFLs (including GU24s), Decorative Light Strings, Integral LED Lamps, Luminaires, Residential Ventilating Fans.

The test site used by BACL Corp. to collect radiated and conducted emissions measurement data is located at its facility in Sunnyvale, California, USA.

The test site at BACL Corp. has been fully described in reports submitted to the Federal Communication Commission (FCC) and Voluntary Control Council for Interference (VCCI). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 11 and December 10, 1997, and Article 8 of the VCCI regulations on December 25, 1997. The test site also complies with the test methods and procedures set forth in CISPR 22:2008 §10.4 for measurements below 1 GHz and §10.6 for measurements above 1 GHz, as well as ANSI C63.4-2009, ANSI C63.4-2009, TIA/EIA-603 & CISPR 24: 2010.

The Federal Communications Commission and Voluntary Control Council for Interference have the reports on file and they are listed under FCC registration number: 90464 and VCCI Registration No.: A-0027. The test site has been approved by the FCC and VCCI for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, BACL Corp. is an American Association for Laboratory Accreditation (A2LA) accredited laboratory (Lab Code 3297-02). The current scope of accreditations can be found at

http://www.a2la.org/scopepdf/3297-02.pdf?CFID=1132286&CFTOKEN=e42a3240dac3f6ba-6DE17DCB-1851-9E57-477422F667031258&jsessionid=8430d44f1f47cf2996124343c704b3678l6b

2 EUT TEST CONFIGURATION

2.1 Justification

The EUT was configured for testing according to FCC Part 15.407(H), RSS-210 and FCC 06-96 Standards.

2.2 EUT Exercise Software

The test utility used version was 00.10.00-5was provided by Mimosa Networks., and was verified Chen Ge to comply with the standard requirements being tested against.

2.3 Equipment Modifications

N/A

2.4 Local Support Equipment

Manufacturers	Description	Models	Serial Number
Lenovo	Laptop	T530	PK-0XD9H

2.5 Interface Ports and Cabling

Cable Description	Length (M)	From	To
RF Cable	<1.0	PSA	EUT

2.6 Power Supply and Line Filters

Manufacturer	Description	Model Number	Serial Number
Fortune Power	AC/DC Adaptor of POE	GRT 480125A	130669328

2.7 EUT Internal Configurations

Manufacturers	Descriptions	Models	Serial Numbers
Mimosa Networks	Main PCB Board	B5	1346101000017

3 Summary of Test Results

The following result table represents the list of measurements required under the CFR47 §47 Part15.407 (h), RSS-210 and FCC 06-96.

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-210 and FCC 06-96 Appendix.

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
Uniform Spreading	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	**Client** (Without DFS)	**Client** (With DFS)
DFS Detection Threshold	Yes	Not Required	Yes
Channel Closing Transmission Time	Yes	Yes	Yes
Channel Move Time	Yes	Yes	Yes

Table 3: Interference Threshold values, Master or Client incorporating In-Service Monitoring

Maximum Transmit Power	Value (See Notes 1 and 2)
≥ 200 milliwatt	-64 dBm
< 200 milliwatt	-62 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.

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 80% of the UNII 99% transmission power bandwidth. See Note 3.

Note 1: The instant that the *Channel Move Time* and the *Channel Closing Transmission Time* begins is as follows:
- For the Short Pulse Radar Test Signals this instant is the end of the *Burst*.
- For the Frequency Hopping radar Test Signal, this instant is the end of the last radar *Burst* generated.
- For the Long Pulse Radar Test Signal this instant is the end of the 12 second period defining the *Radar Waveform*.

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 1 is used and 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
1	1	1428	18	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

Table 6: Long Pulse Radar Test Signal

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

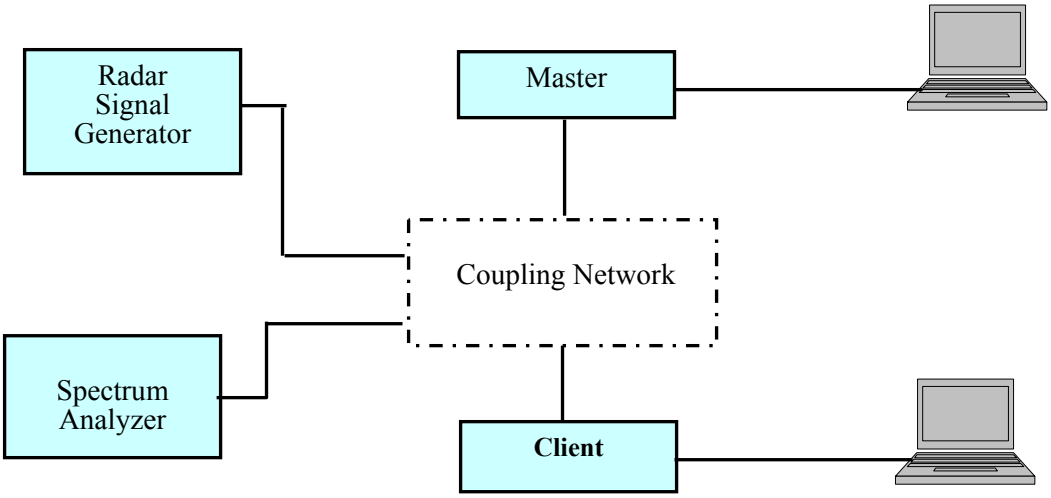
Table 7: Frequency Hopping Radar Test Signal

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

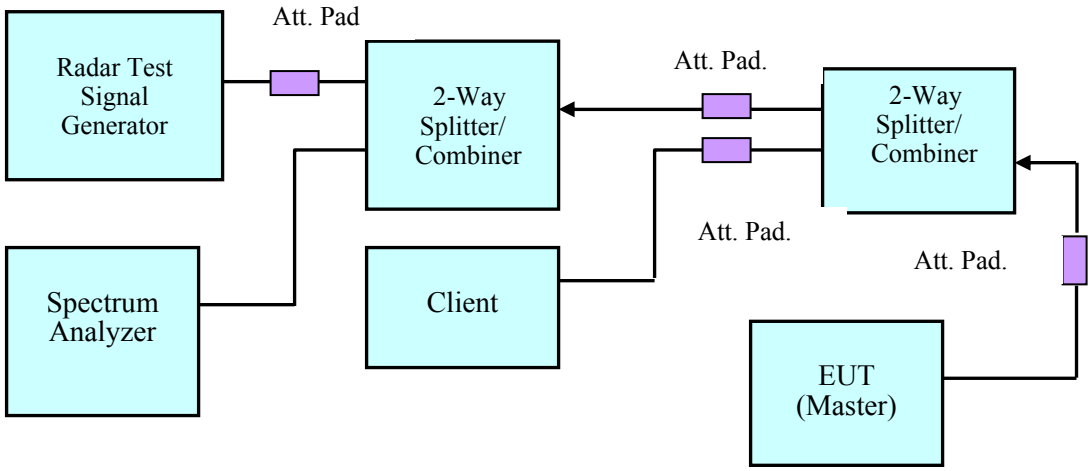
4.2 DFS Measurement System

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

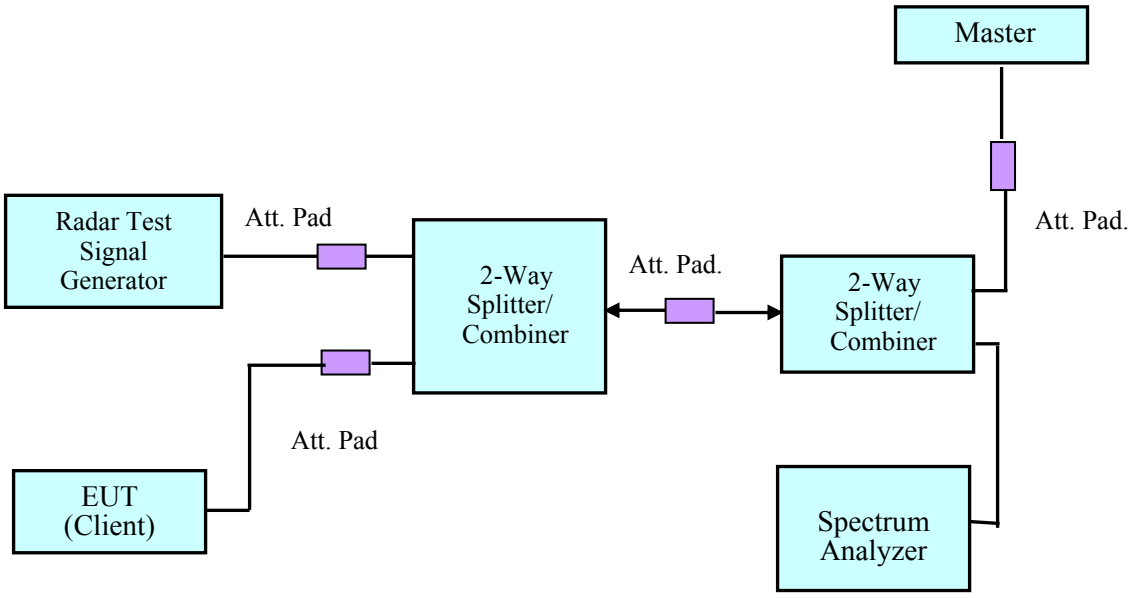
4.3 System Block Diagram



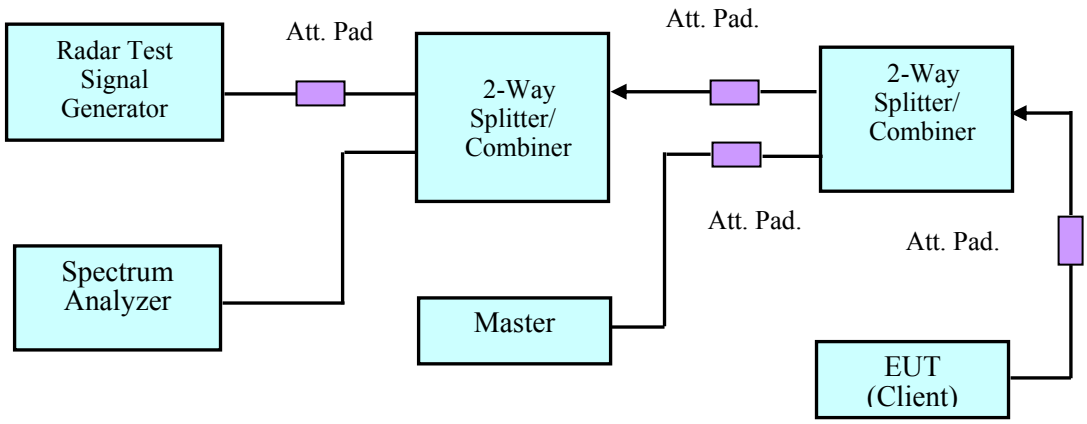
4.4 Conducted Method



Setup for Master with injection at the Master

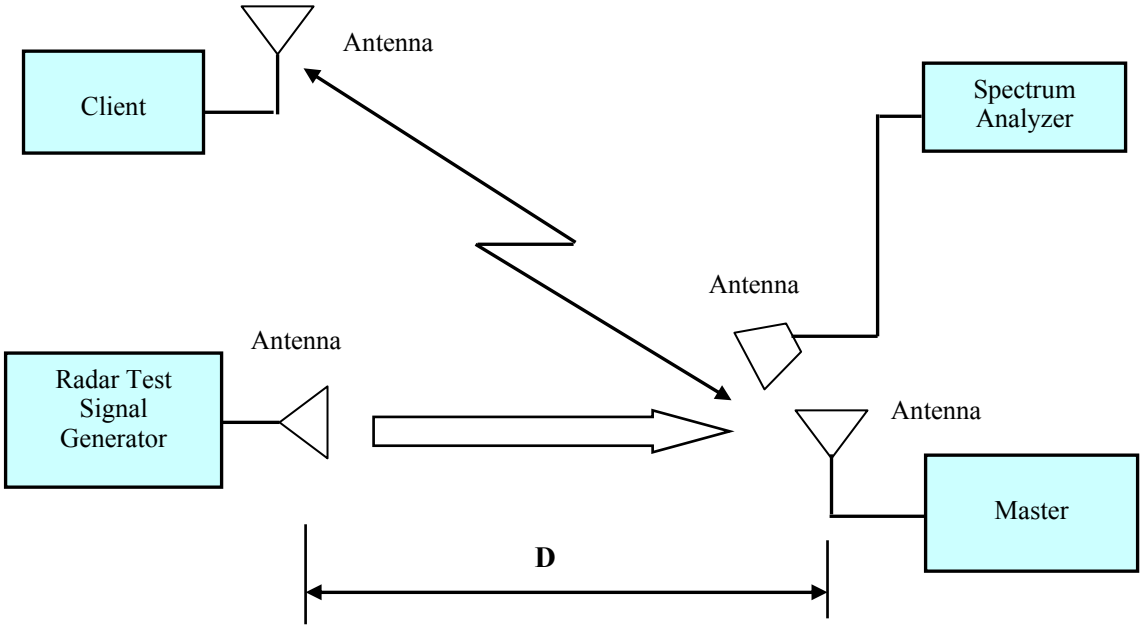


Setup for Client with injection at the Master



Setup for Client with injection at the Client

4.5 Radiated Method



4.6 Test Procedure

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

5 Test Results

5.1 Description of EUT

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

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

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

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

The EUT was tested with the 25 dBi gain antenna.

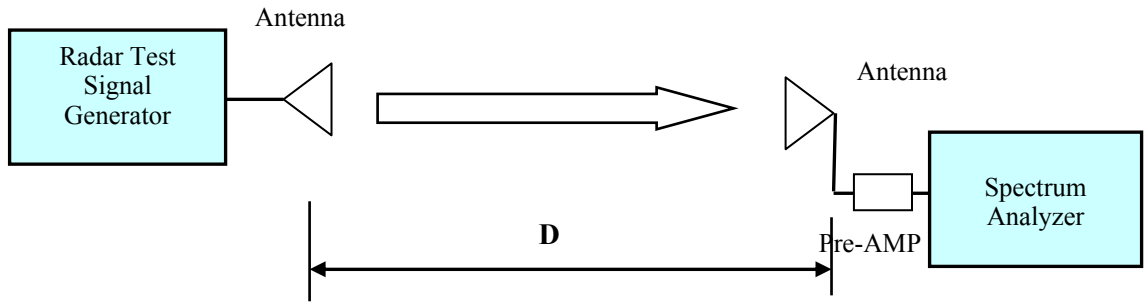
The EUT will not work in 5600-5650 MHz band.

5.2 Test Equipment List and Details

Manufacturer	Equipment Description	Model	S/N	Calibration Date
National Instruments	NI PXI-1042 8-Slot chassis	PXI-1042	V08X01EE1	N/A
National Instruments	Arbitrary Waveform Generator	PXI-5421	N/A	N/A
National Instruments	RF Upconverter	PXI-5610	N/A	N/A
ASCOR	Upconverter	AS-7206	N/A	N/A
Agilent	Spectrum Analyzer	E4440A	MY44303352	2013-10-16
A.R.A.	Antenna Horn	DRG-118/A	1132	2014-01-29
EMCO	Antenna Horn	3115	9511-4627	2013-10-17
Mini-Circuits	Splitter/Combiner	2FSC-2-10G	0349	N/A
Narda	Splitter/Combiner	4326B-2	03514	N/A
Midwest	Attenuator	290-30	N/A	N/A
Mini-Circuits	Attenuator	BW-S30W2	N/A	N/A
HP	Amplifier	8449B	3147A00400	2014-02-04

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

5.3 Radar Waveform Calibration



Radiated Calibration Setup Block Diagram

5.4 Test Environmental Conditions

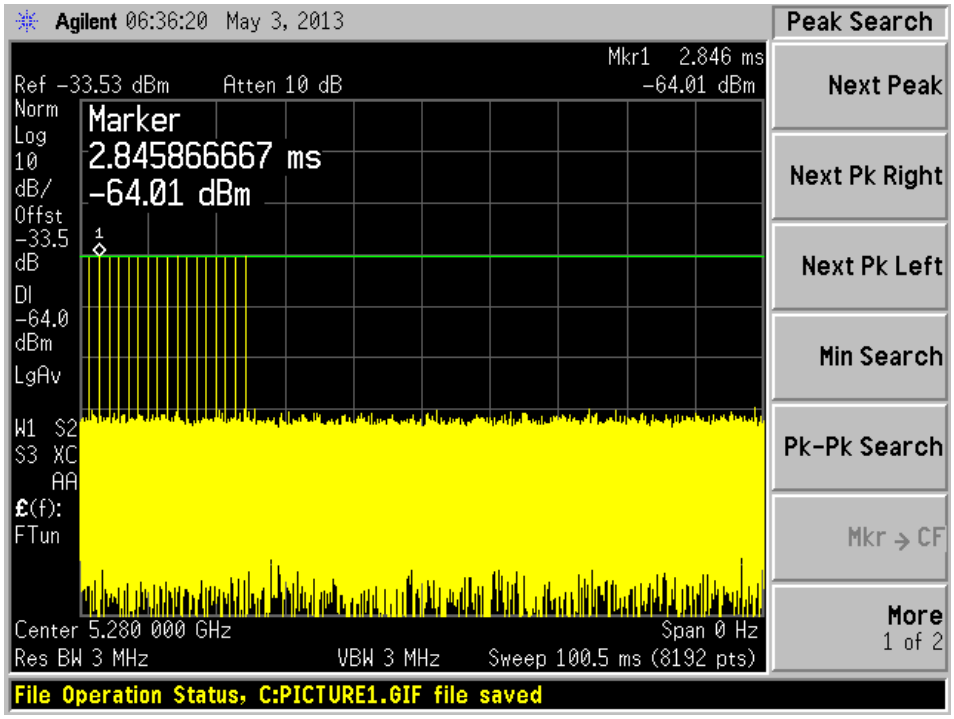
Temperature:	21° C
Relative Humidity:	33 %
ATM Pressure:	101.9 kPa

Testing performed by Chen Ge on 2014-03-18 at DFS testing site.

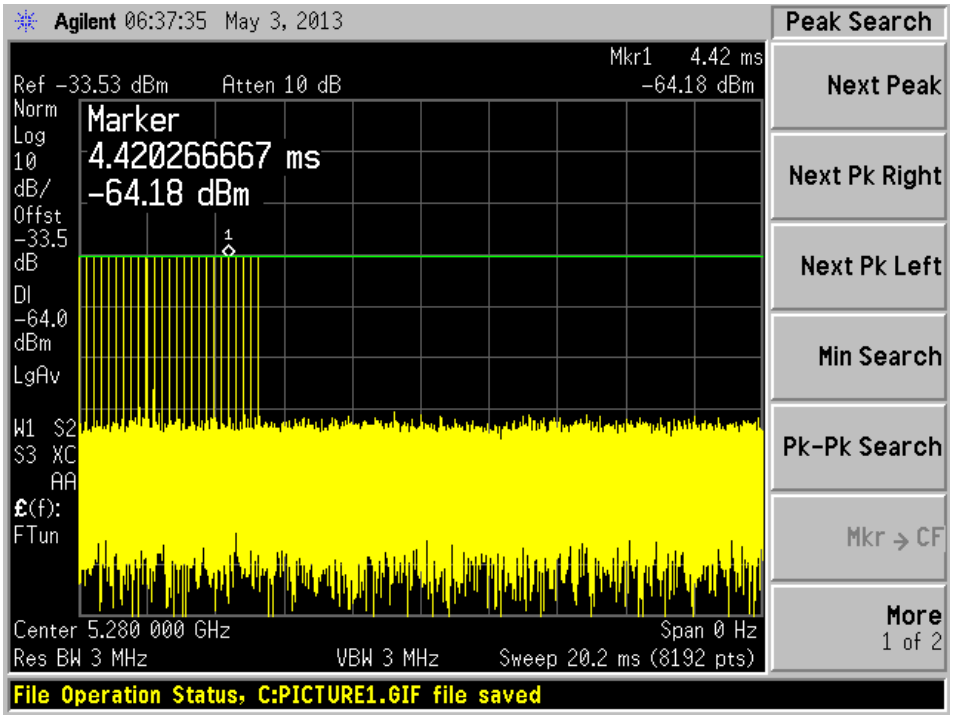
Plots of Radar Waveforms

5280 MHz

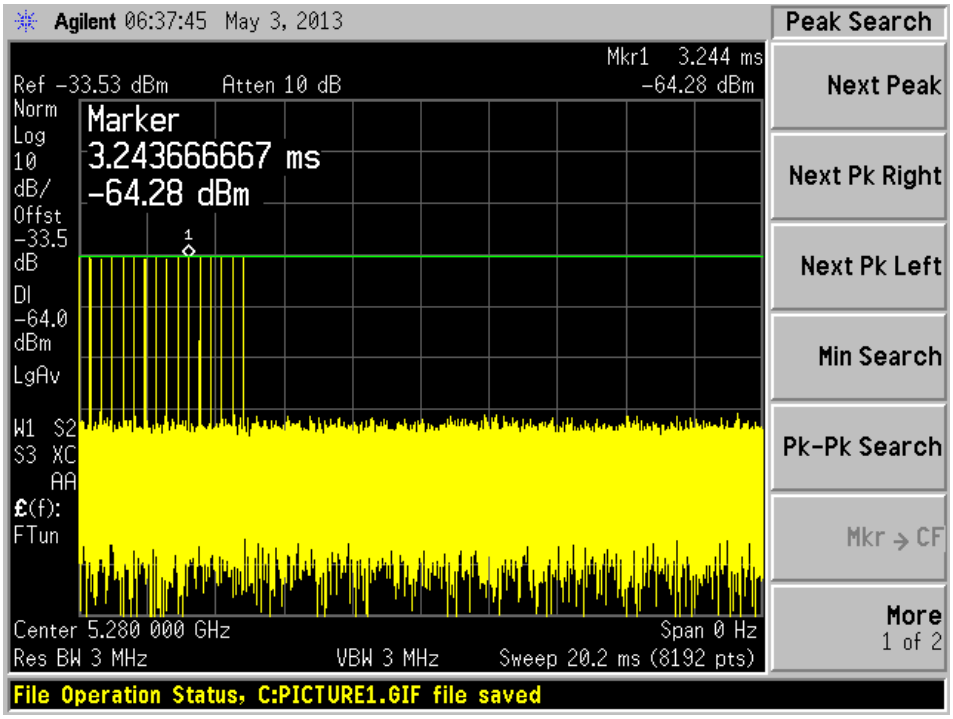
Radar Type 1



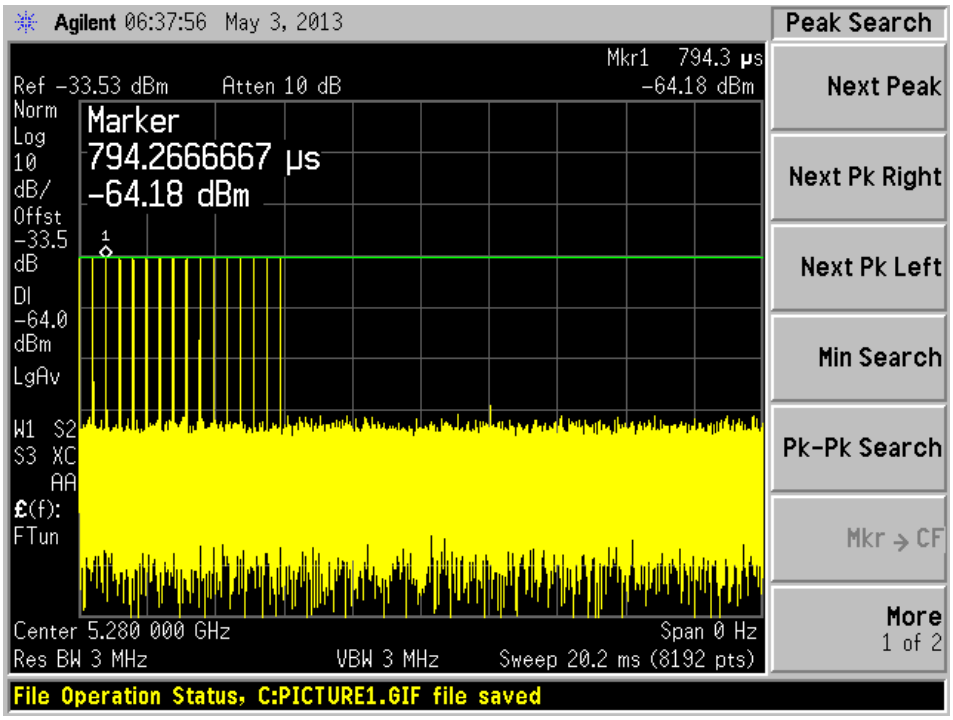
Radar Type 2



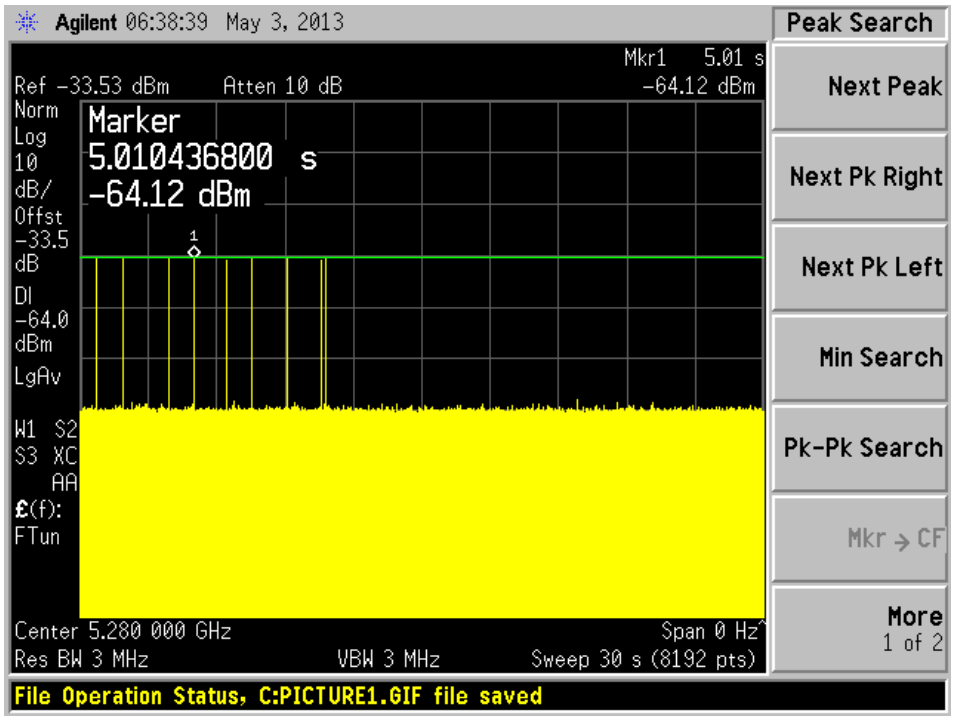
Radar Type 3



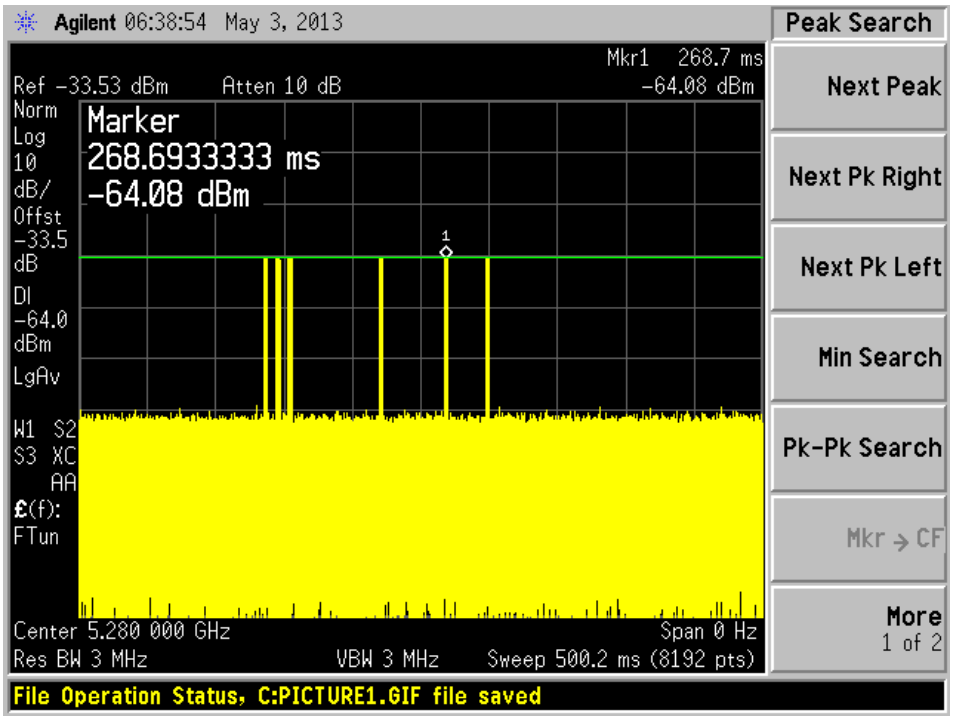
Radar Type 4



Radar Type 5

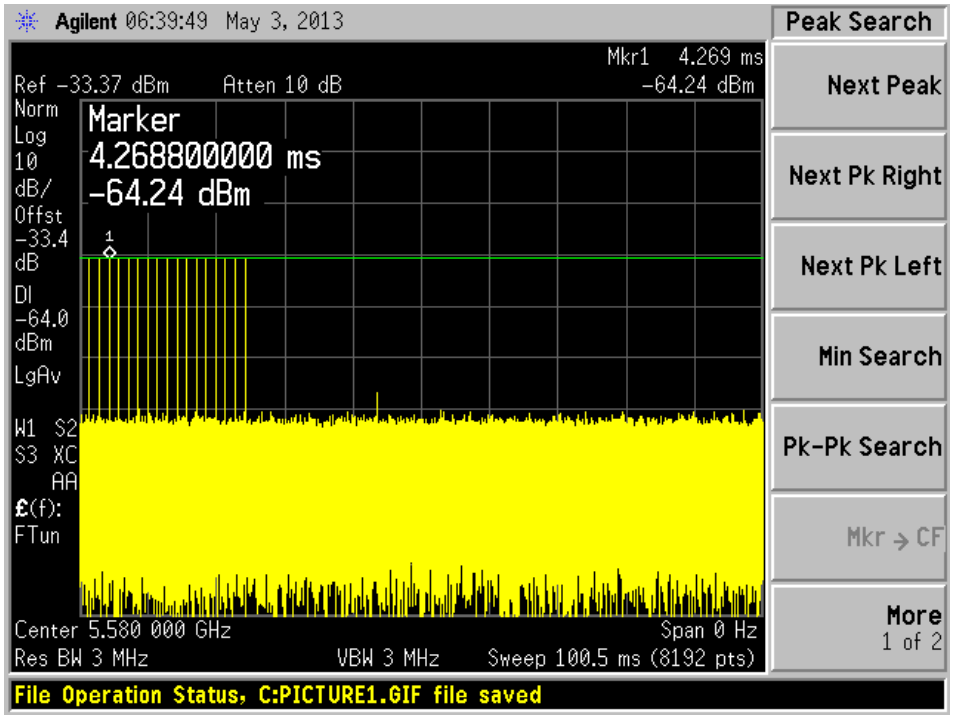


Radar Type 6

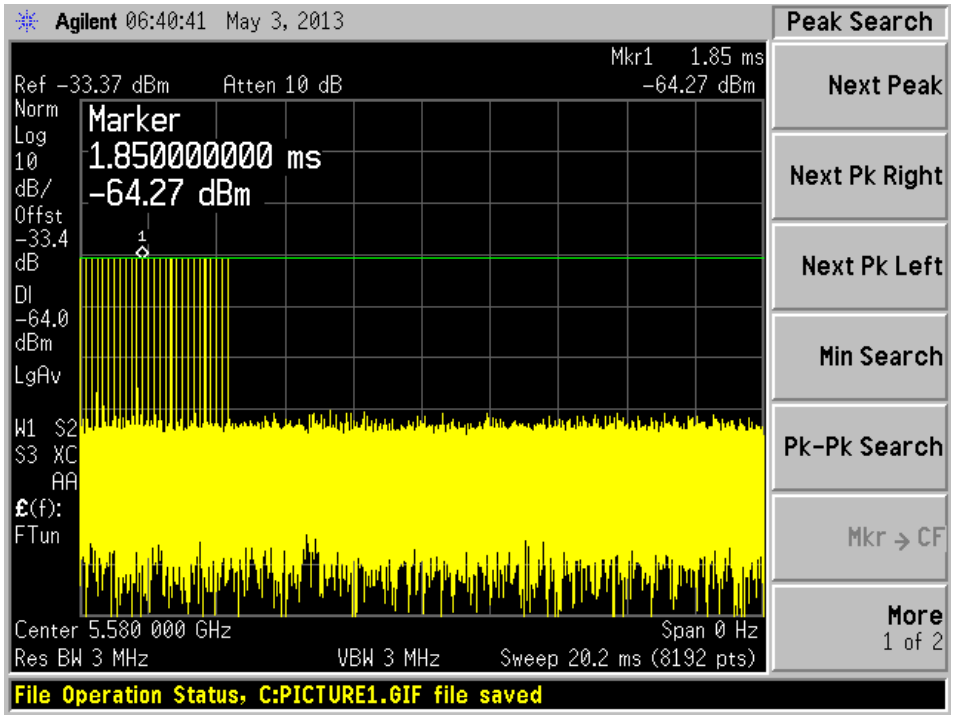


5580 MHz

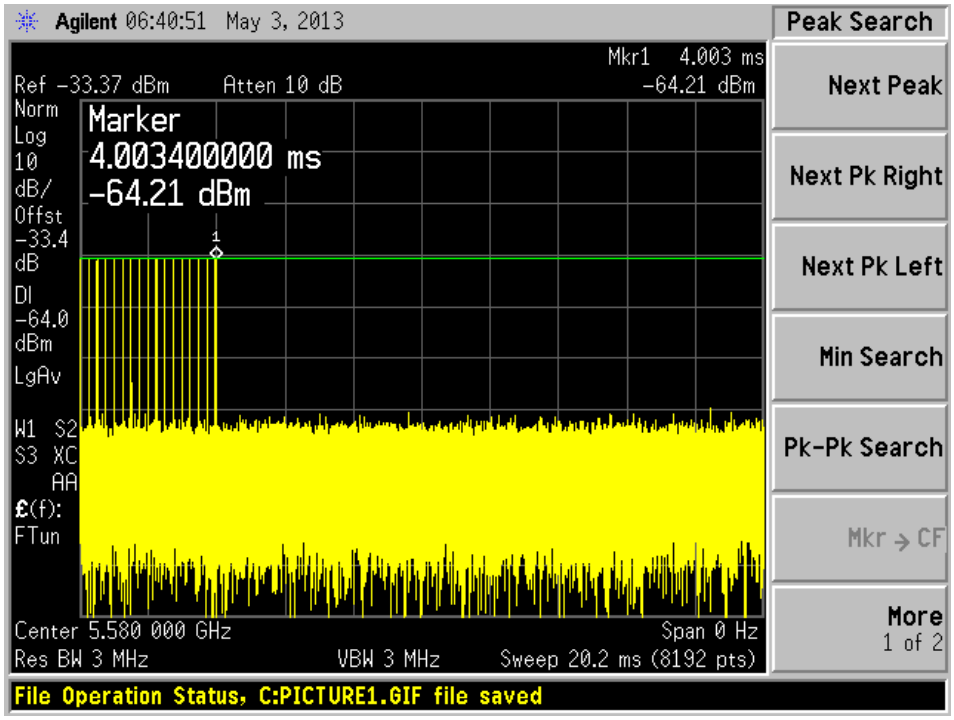
Radar Type 1



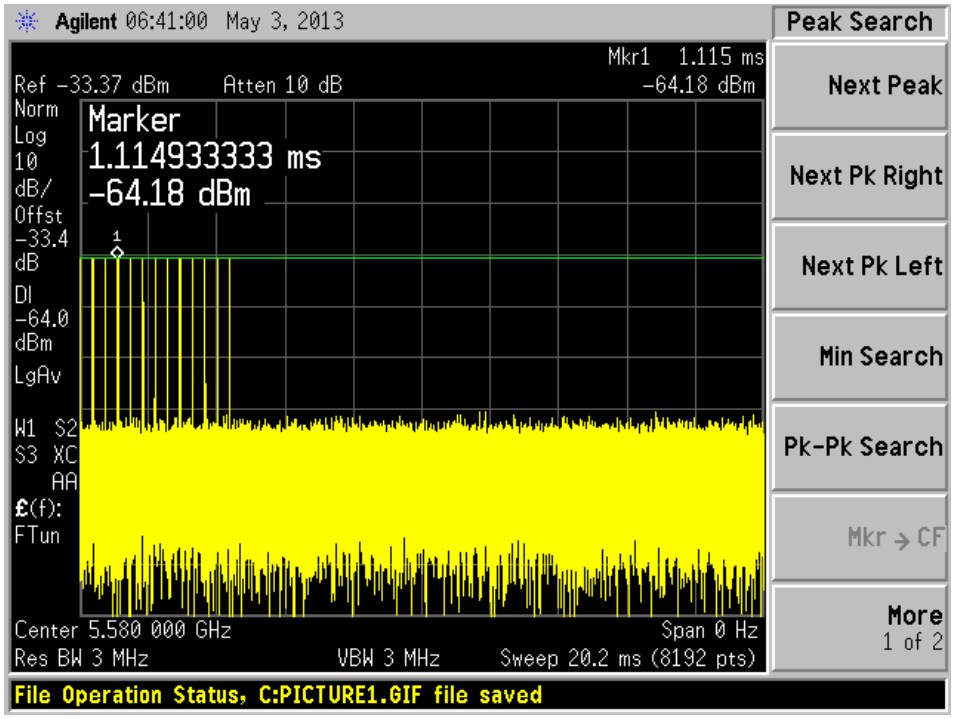
Radar Type 2



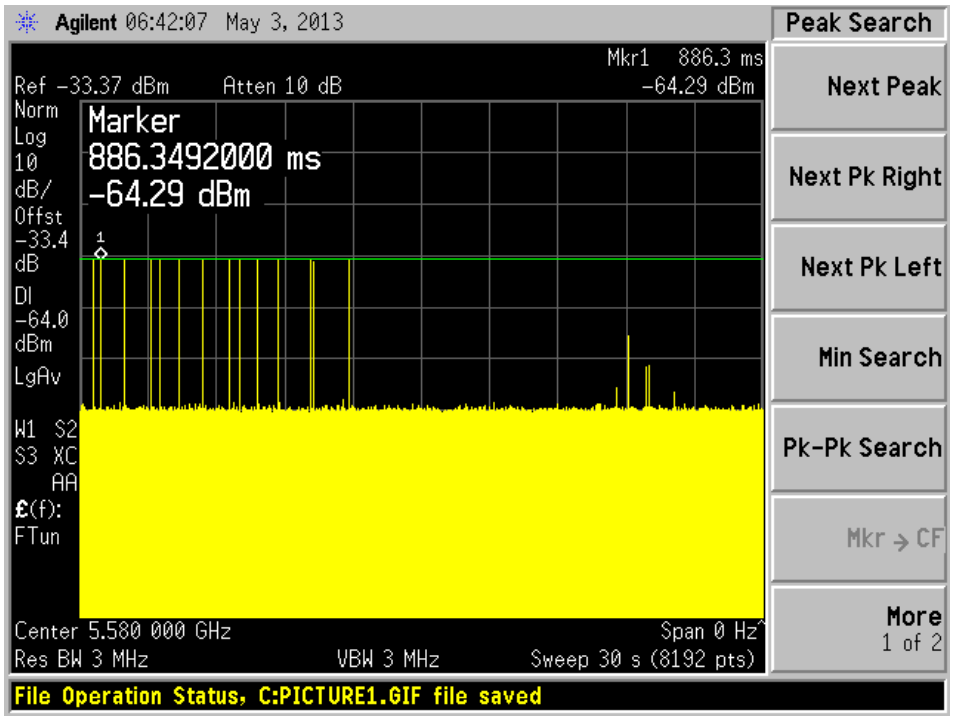
Radar Type 3



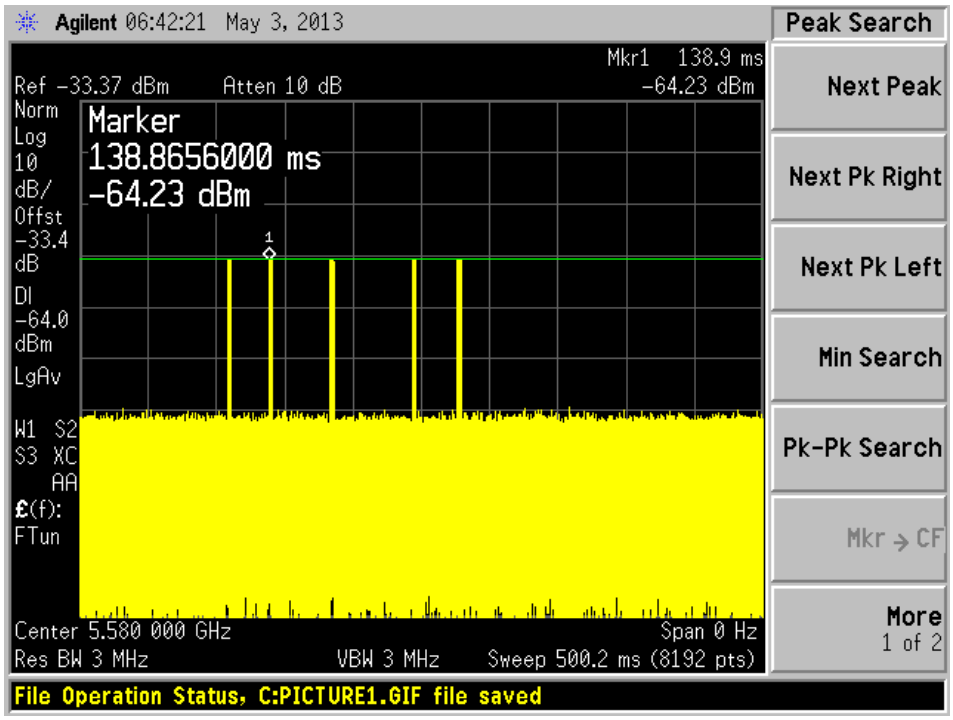
Radar Type 4



Radar Type 5



Radar Type 6



6 Channel Availability Check Time (CAC)

6.1 Test Procedure

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

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

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

EUT Initial power-up Cycle Time

5270 MHz and 5510 MHz Bandwidth 40 MHz

EUT initial Power-up cycle (Second)
66s, 65s

5290 MHz and 5530 MHz Bandwidth 80 MHz

EUT initial Power-up cycle (Second)
65

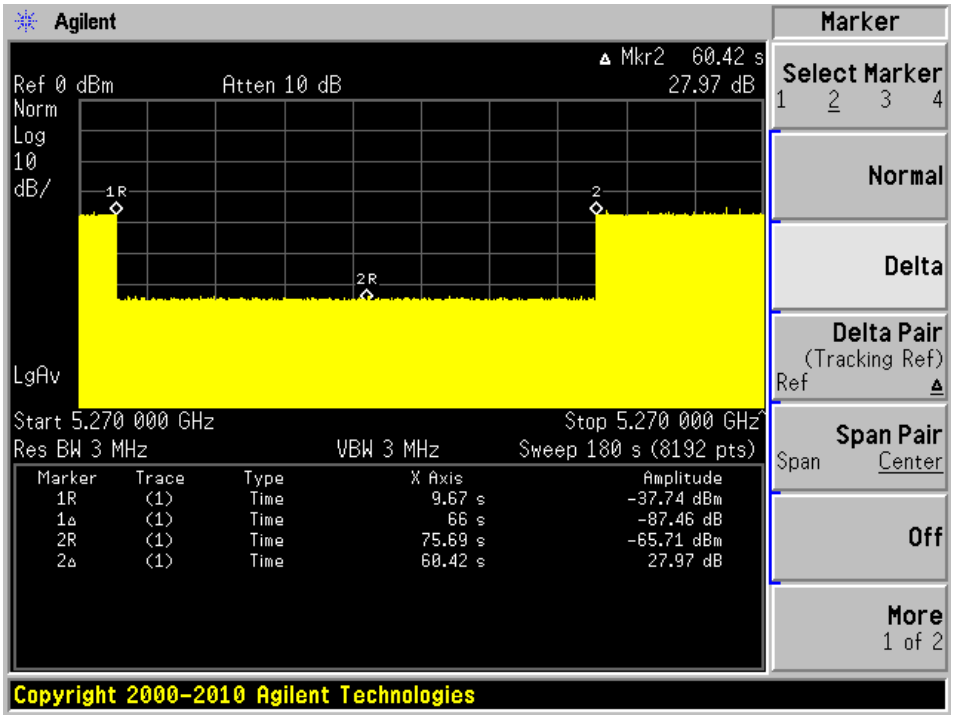
Results:

Timing of Radar Burst	Spectrum Analyzer Display
No Radar Triggered	Transmission begin after power-up cycle +60 seconds CAC
Within 2 seconds of the CAC starting	No transmission
Within the last 2 seconds of the CAC	No transmission

Please refer to the following plots.

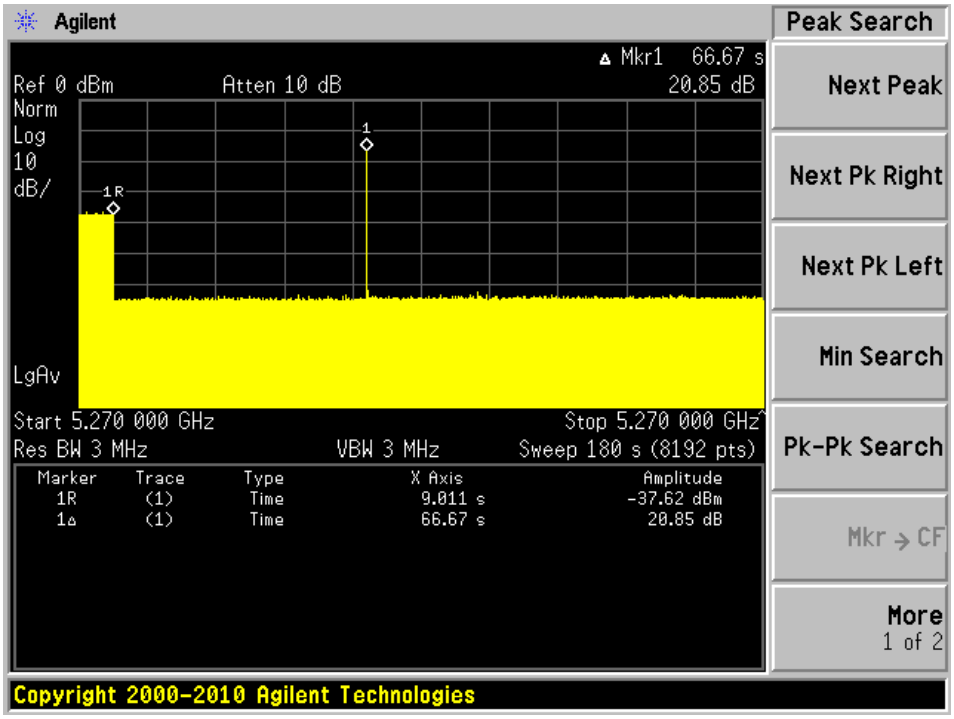
5270 MHz, Bandwidth 40 MHz

Plot of without Radar signal applied



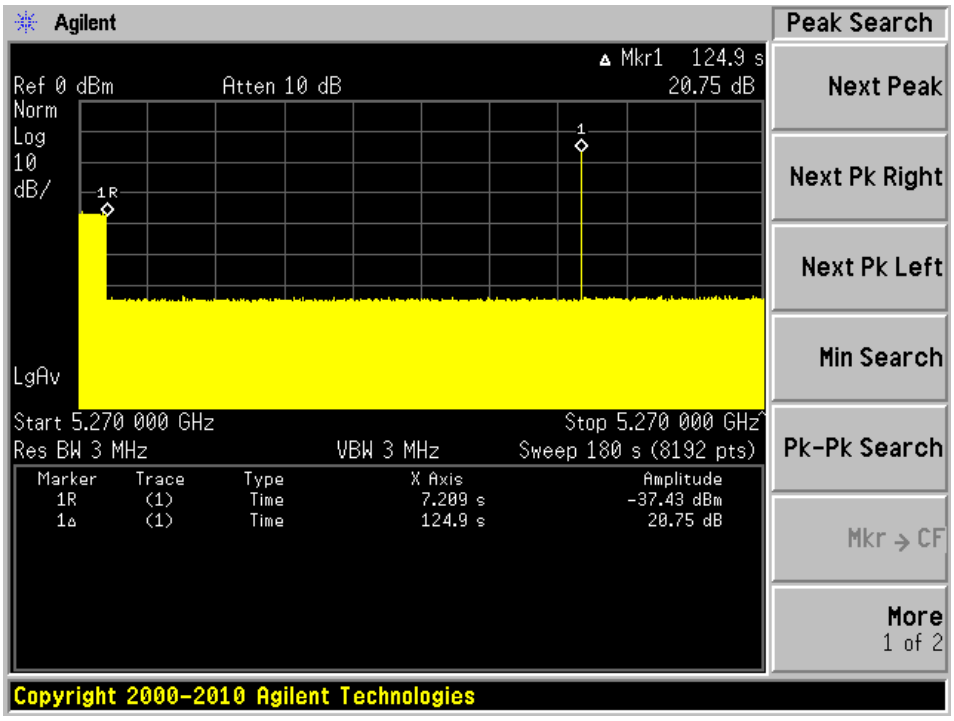
Note: The power-up cycle is 66 seconds.

Plot of Radar signal applied within 2 seconds of start of CAC



No transmissions found after radar signal applied.

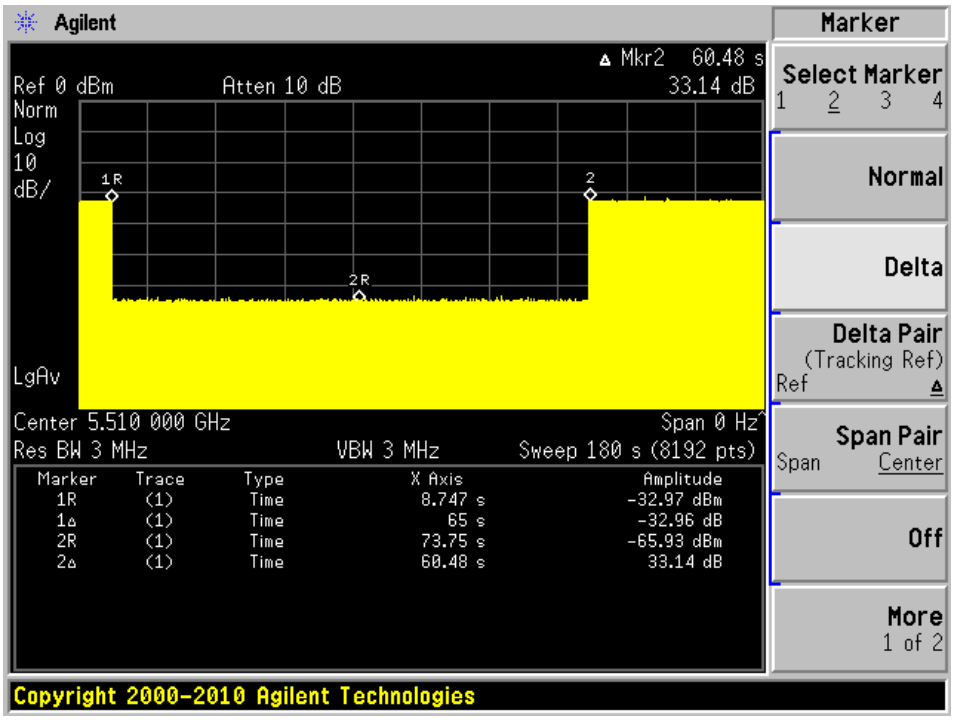
Plot of Radar signal applied at the end of 2 seconds of CAC



No transmissions found after radar signal applied.

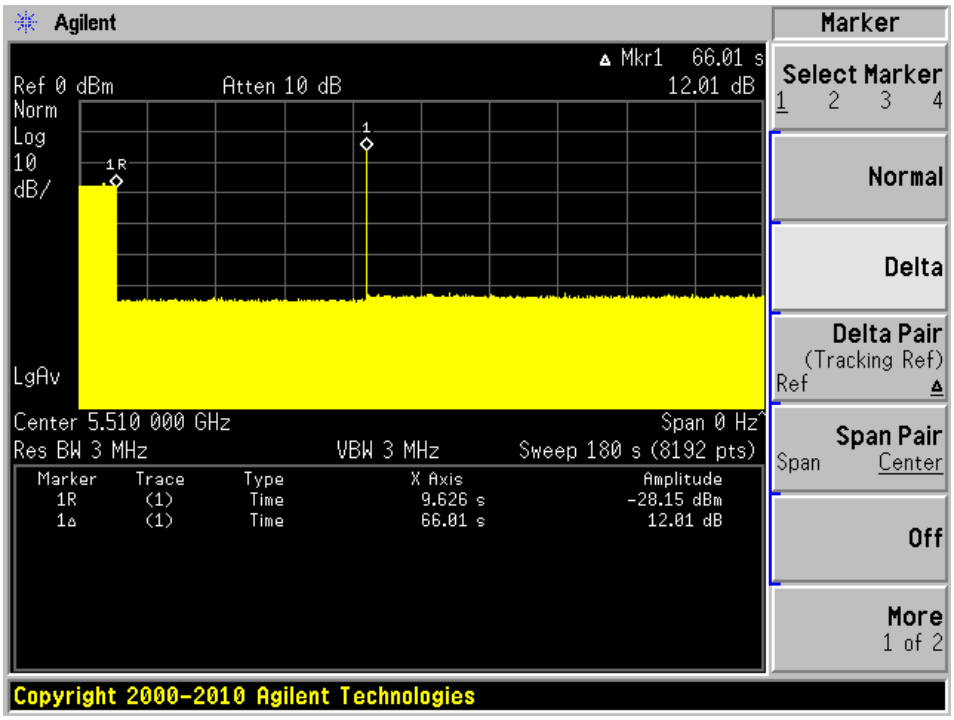
5510 MHz, Bandwidth 40 MHz

Plot of without Radar signal applied



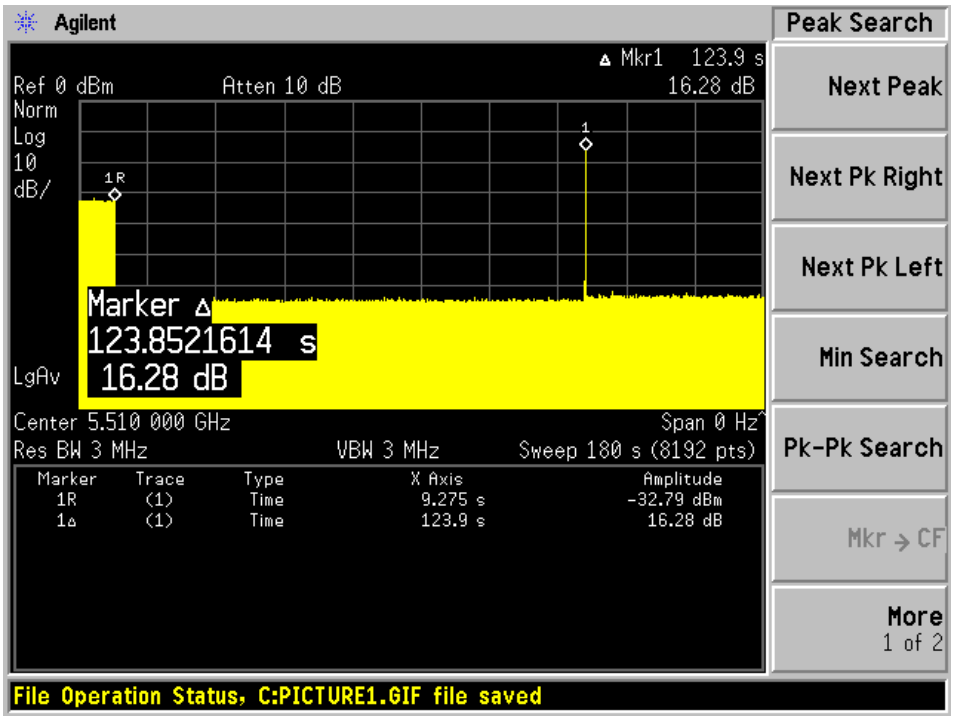
Note: The power-up cycle is 65 seconds.

Plot of Radar signal applied within 2 seconds of start of CAC



No transmissions found after radar signal applied.

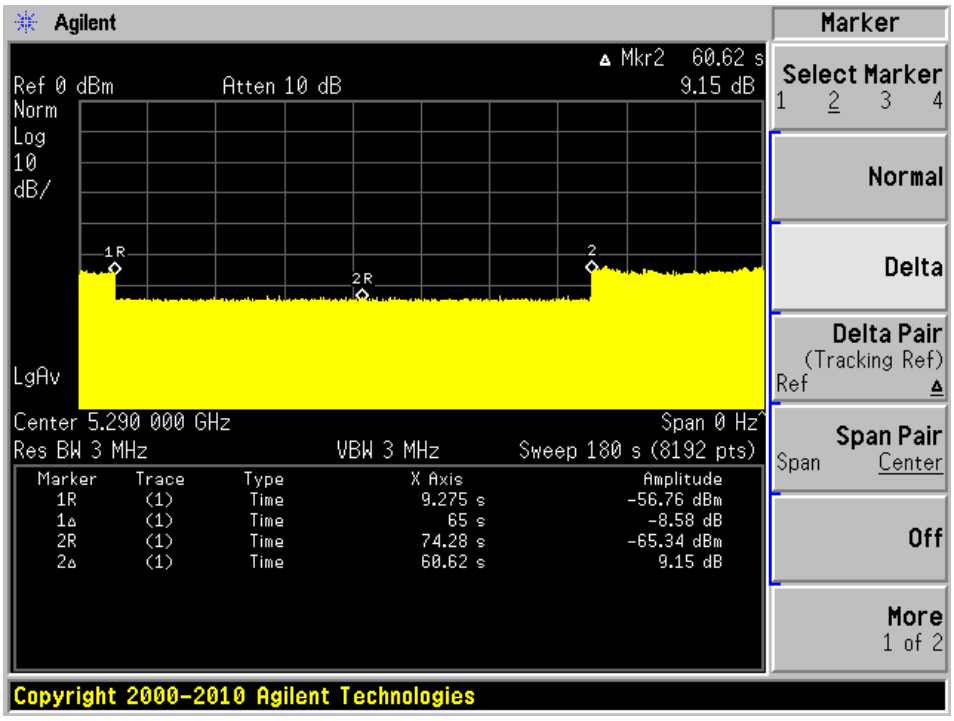
Plot of Radar signal applied at the end of 2 seconds of CAC



No transmissions found after radar signal applied.

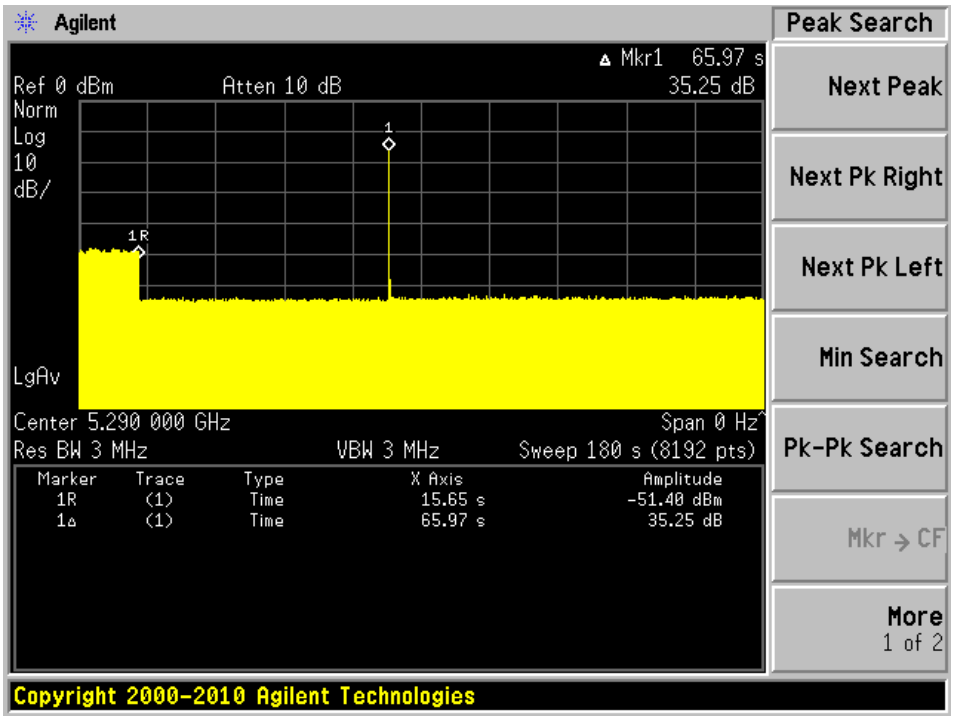
5290 MHz, Bandwidth 80 MHz

Plot of without Radar signal applied



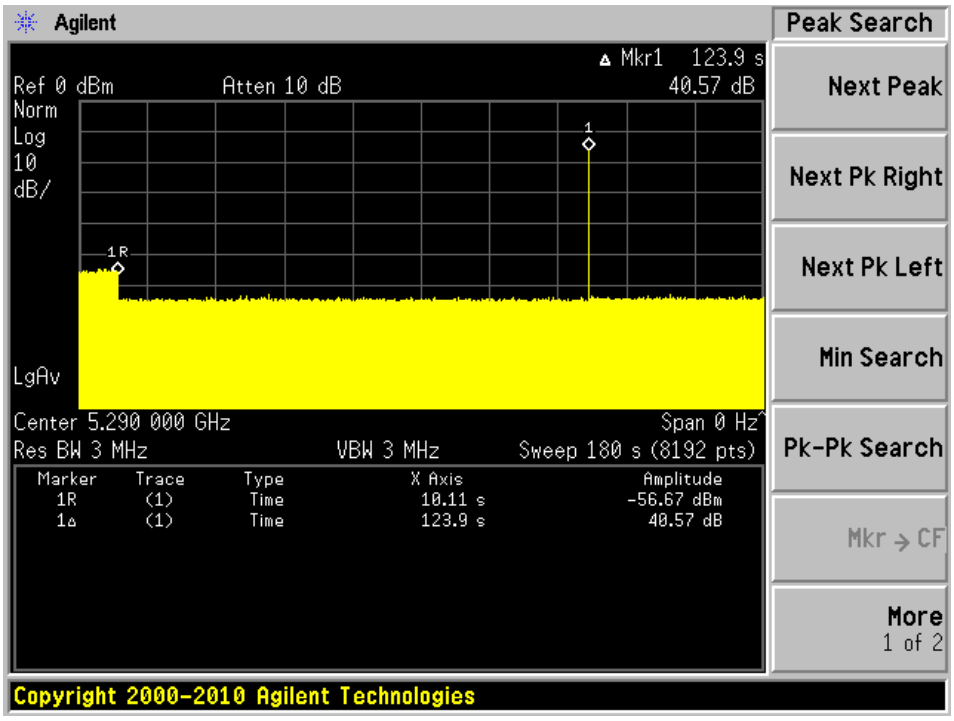
Note: The power-up cycle is 65 seconds.

Plot of Radar signal applied within 2 seconds of start of CAC



No transmissions found after radar signal applied.

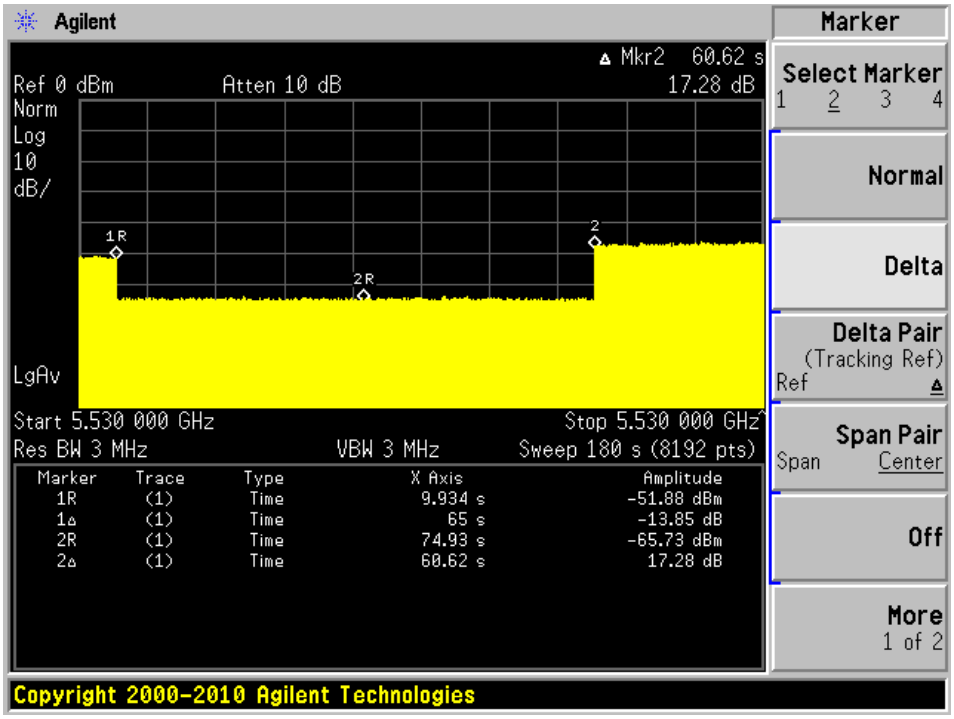
Plot of Radar signal applied at the end of 2 seconds of CAC



No transmissions found after radar signal applied.

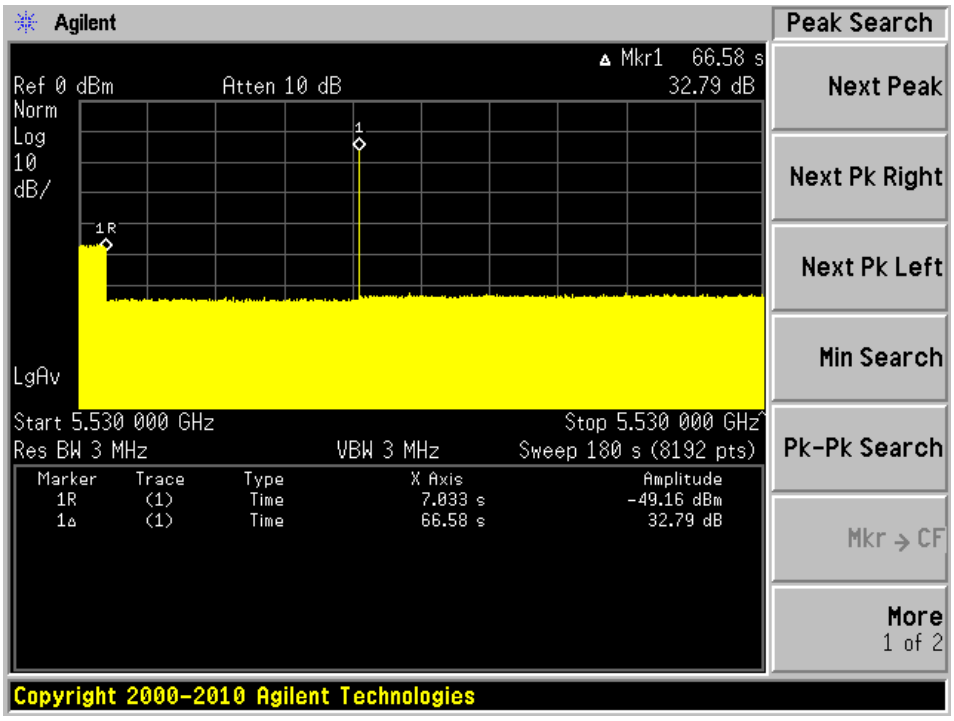
5530 MHz, Bandwidth 80 MHz

Plot of without Radar signal applied



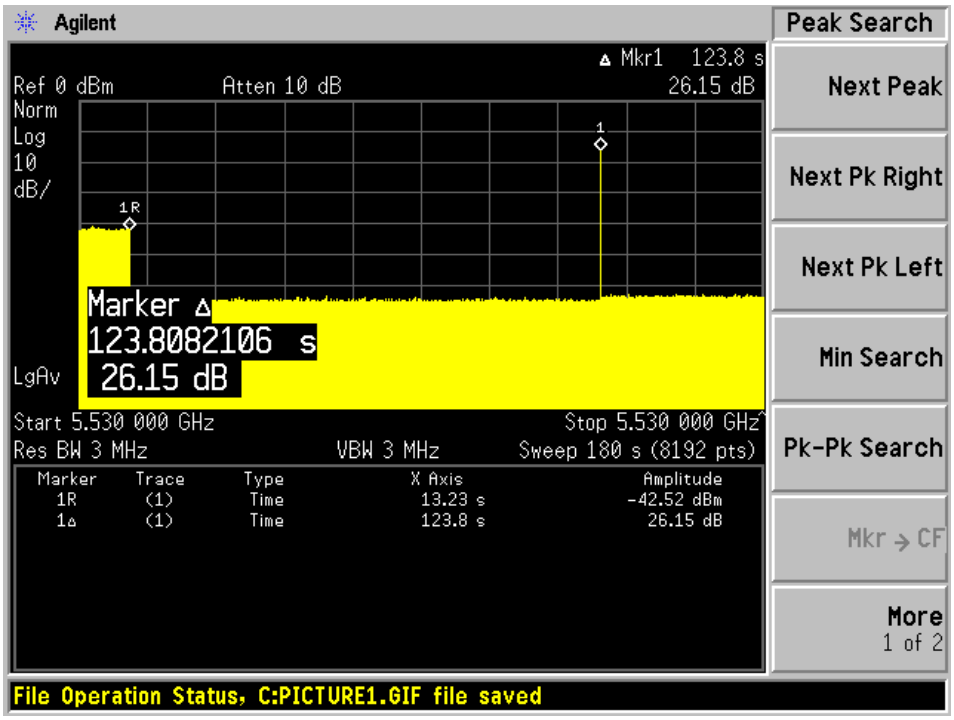
Note: The power-up cycle is 65 seconds.

Plot of Radar signal applied within 2 seconds of start of CAC



No transmissions found after radar signal applied.

Plot of Radar signal applied at the end of 2 seconds of CAC



No transmissions found after radar signal applied.

7 Channel Move Time and Channel Closing Transmission Time

7.1 Test Procedure

Perform one of the type1 to type 4 short pulse radar waveform, BACL use type 1 radar signal, repeat using a long pulse radar type5 waveform.

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)

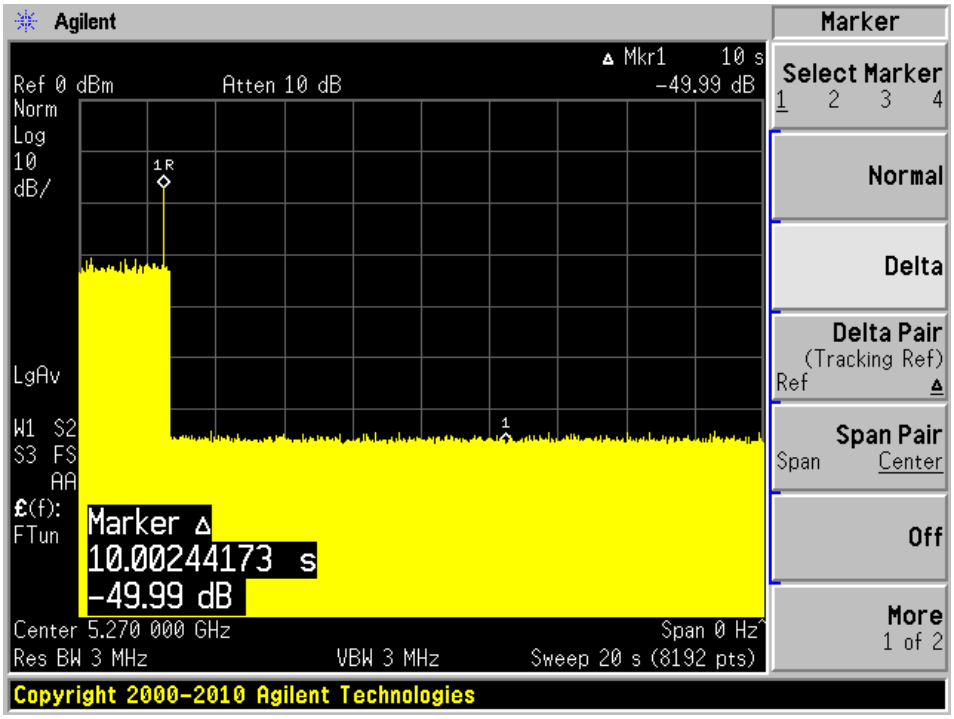
7.2 Test Results

Frequency (MHz)	Bandwidth (MHz)	Radar Type	Results
5270	40	Type 1	Compliant
		Type 5	Compliant
5510	40	Type 1	Compliant
		Type 5	Compliant
5290	80	Type 1	Compliant
		Type 5	Compliant
5530	80	Type 1	Compliant
		Type 5	Compliant

Please refer to the following tables and plots.

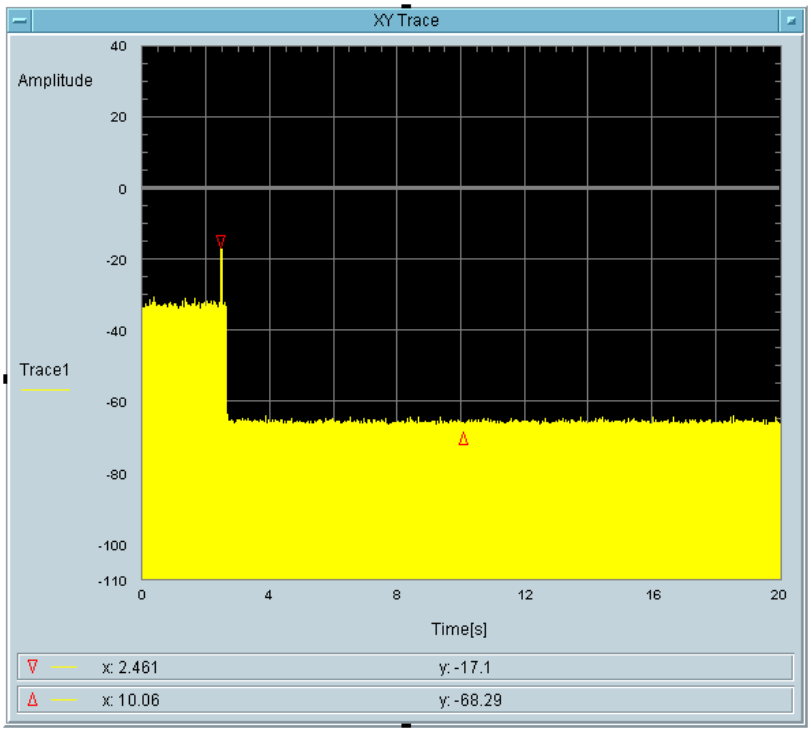
5270 MHz Bandwidth 40 MHz

Type 1 radar channel move time result:



Type1 radar channel closing transmission time result:

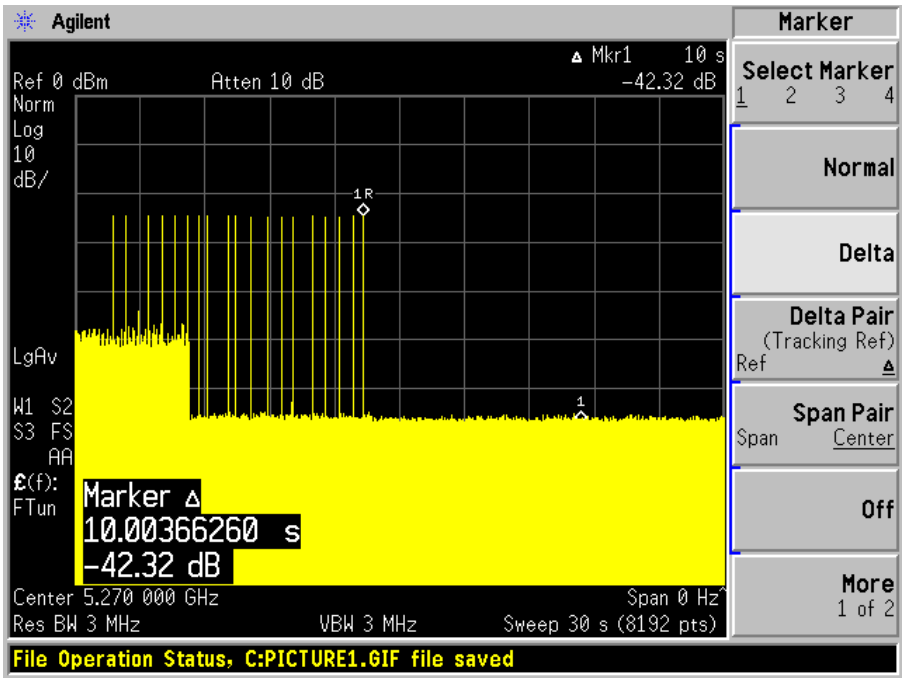
Frequency (MHz)	Radar Type	Channel Closing Transmission Time				Channel Move Time	
		Test	Limit	Aggregate Transmission Time	Limit	Test	Limit
5270	1	< 200 ms	200 ms	12.21 ms	60 ms	< 10 s	10 s



Type 5 radar channel move time result:

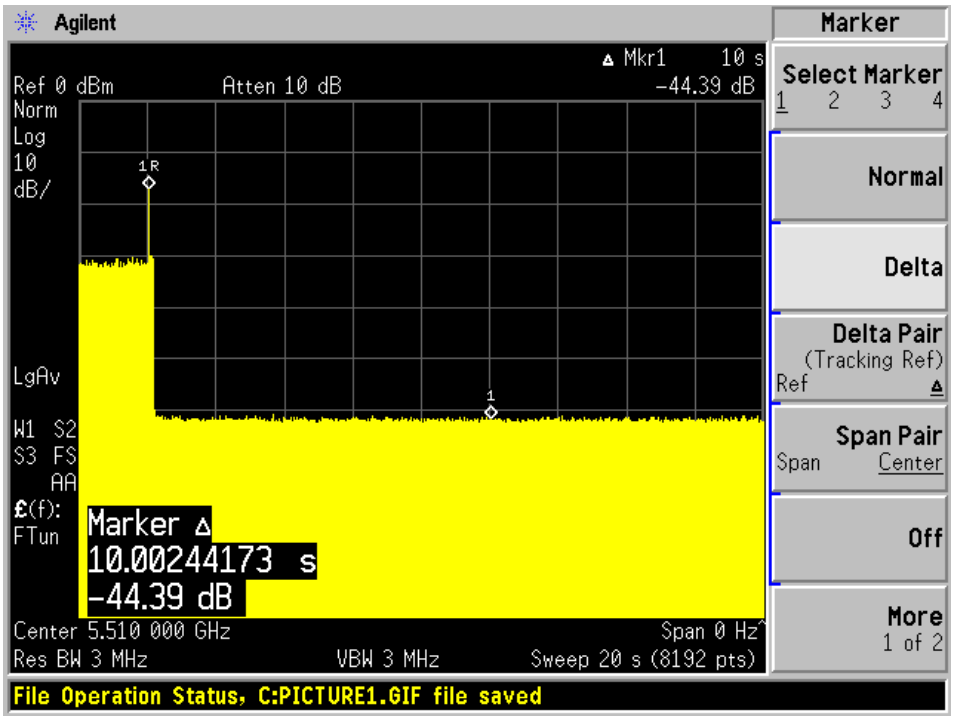
The traffic ceases at the end of the radar waveform, therefore it also ceases at 10 seconds after the end of the radar waveform.

Frequency (MHz)	Radar Type	Channel Closing Transmission Time				Channel Move Time	
		Test	Limit	Aggregate Transmission Time	Limit	Test	Limit
5270	5	< 200 ms	200 ms	0 ms	60 ms	< 10 s	10 s



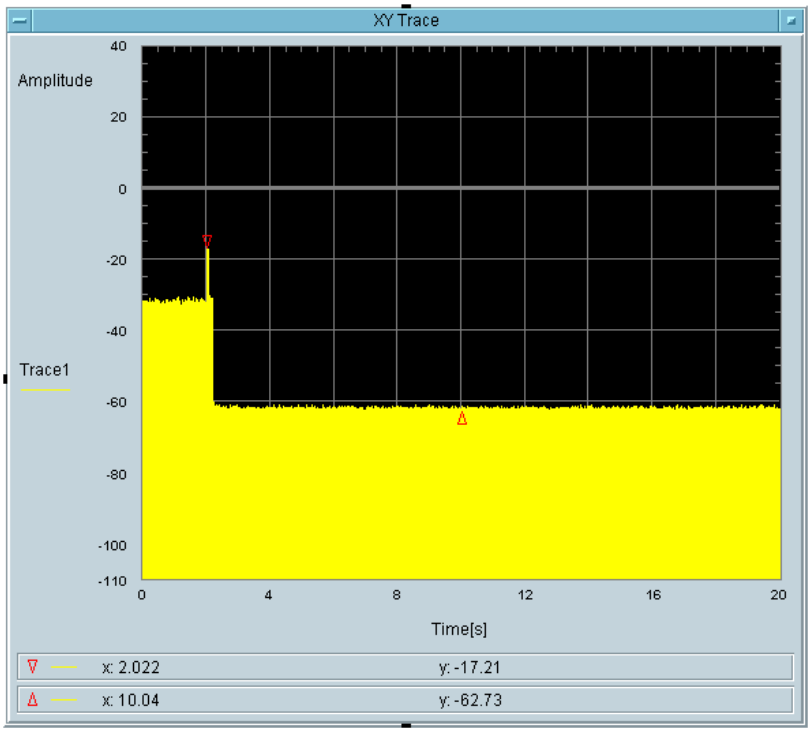
5510 MHz, Bandwidth 40 MHz

Type 1 radar channel move time result:



Type1 radar channel closing transmission time result:

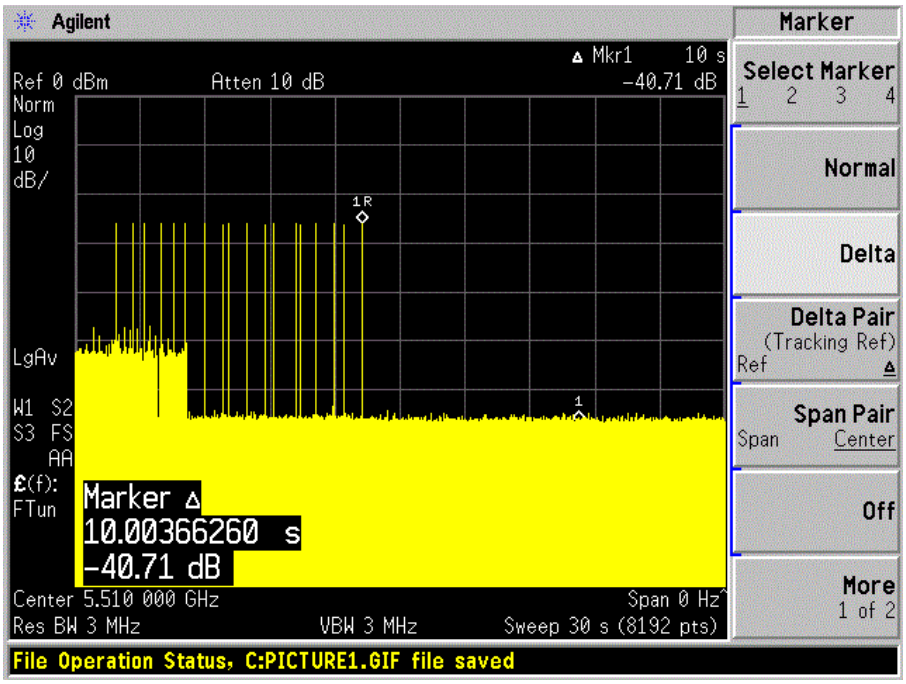
Frequency (MHz)	Radar Type	Channel Closing Transmission Time				Channel Move Time	
		Test	Limit	Aggregate Transmission Time	Limit	Test	Limit
5510	1	< 200 ms	200 ms	12.21 ms	60 ms	< 10 s	10 s



Type 5 radar channel move time result:

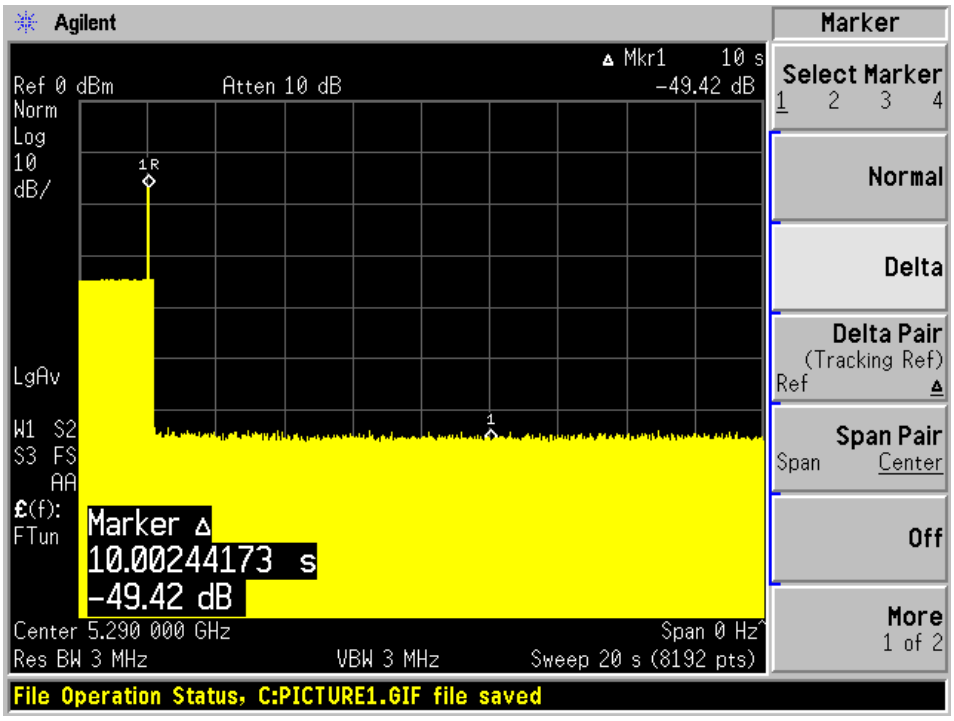
The traffic ceases at the end of the radar waveform, therefore it also ceases at 10 seconds after the end of the radar waveform.

Frequency (MHz)	Radar Type	Channel Closing Transmission Time				Channel Move Time	
		Test	Limit	Aggregate Transmission Time	Limit	Test	Limit
5510	5	< 200 ms	200 ms	0 ms	60 ms	< 10 s	10 s



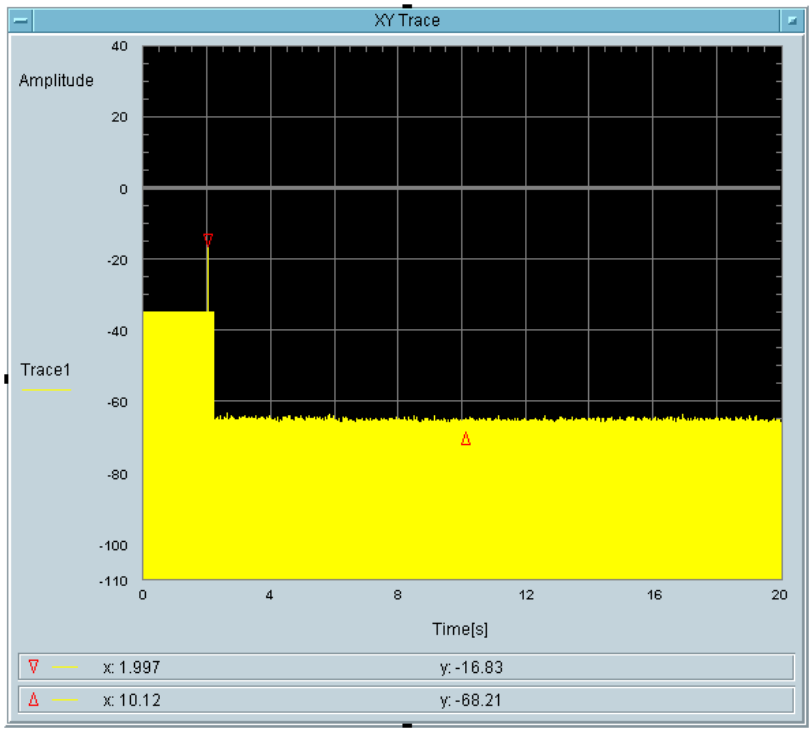
5290 MHz, Bandwidth 80 MHz

Type 1 radar channel move time result:



Type 1 radar channel closing transmission time result:

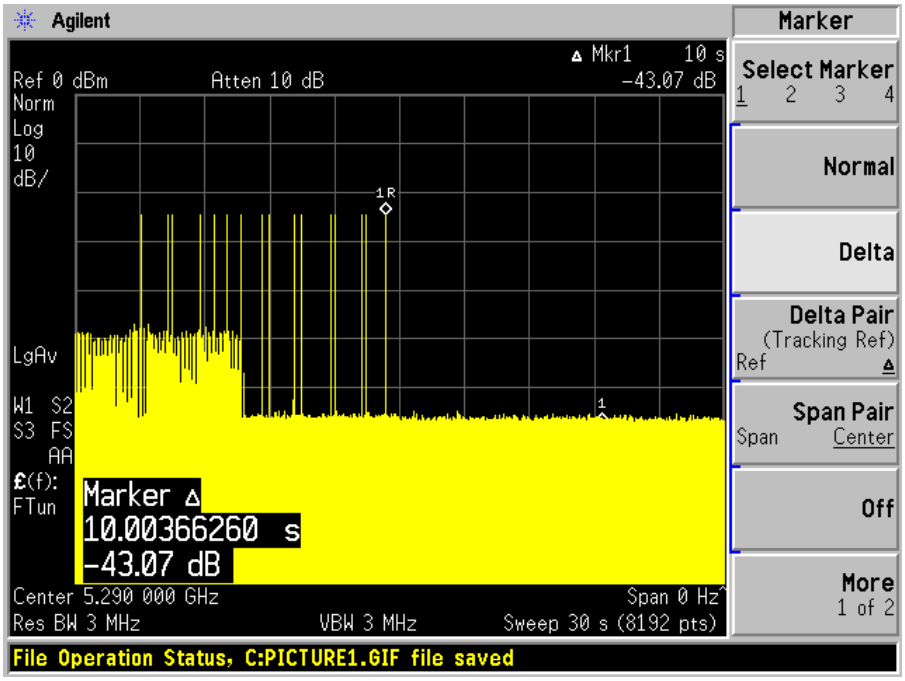
Frequency (MHz)	Radar Type	Channel Closing Transmission Time				Channel Move Time	
		Test	Limit	Aggregate Transmission Time	Limit	Test	Limit
5290	1	< 200 ms	200 ms	12.21 ms	60 ms	< 10 s	10 s



Type 5 radar channel move time result:

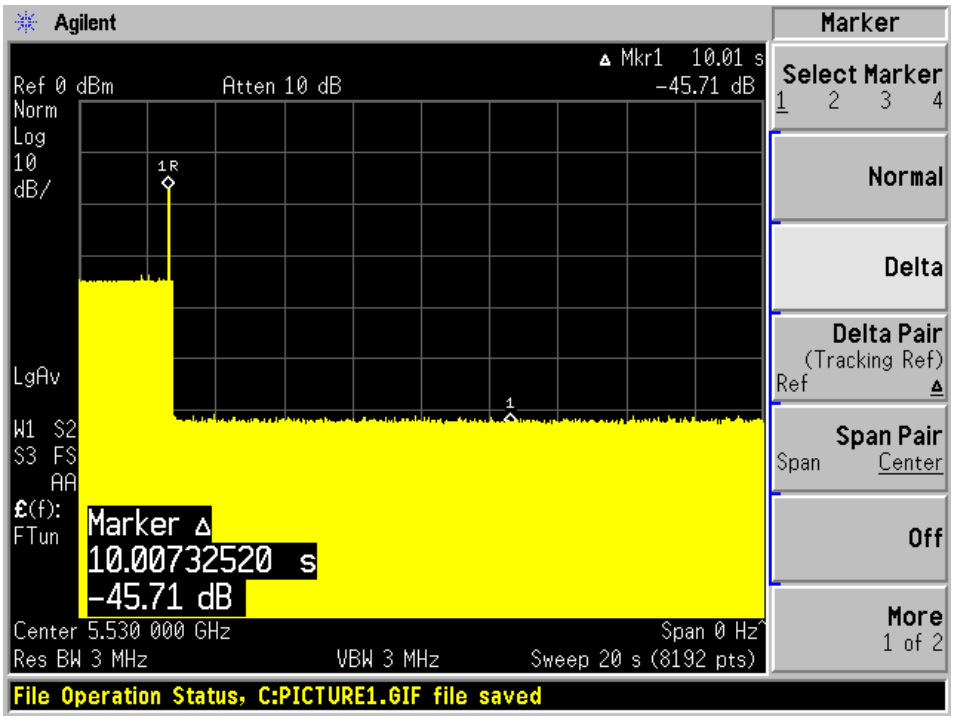
The traffic ceases at the end of the radar waveform, therefore it also ceases at 10 seconds after the end of the radar waveform.

Frequency (MHz)	Radar Type	Channel Closing Transmission Time				Channel Move Time	
		Test	Limit	Aggregate Transmission Time	Limit	Test	Limit
5290	5	< 200 ms	200 ms	0 ms	60 ms	< 10 s	10 s



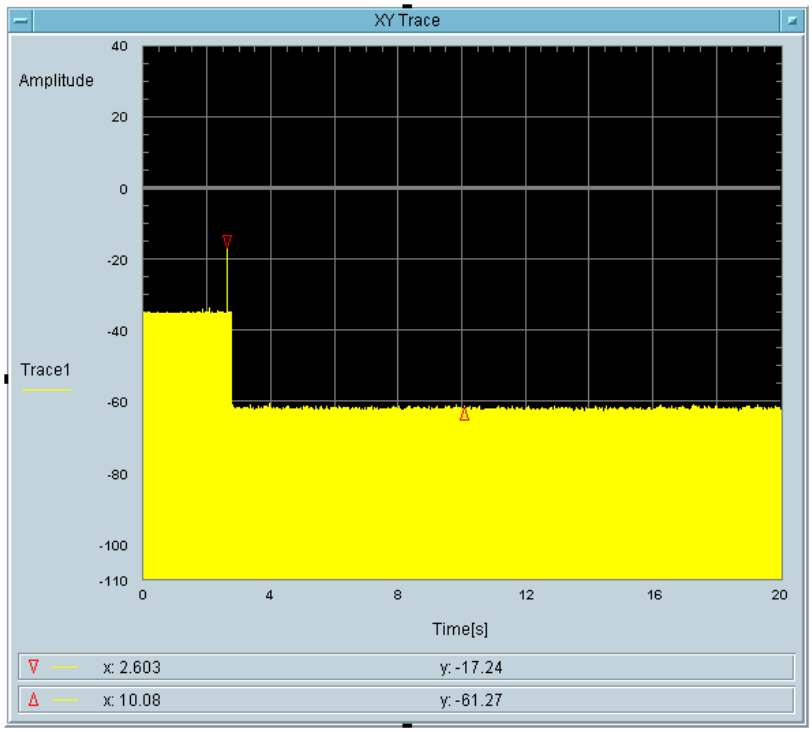
5530 MHz, Bandwidth 80 MHz

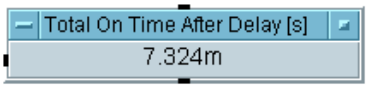
Type 1 radar channel move time result:



Type1 radar channel closing transmission time result:

Frequency (MHz)	Radar Type	Channel Closing Transmission Time				Channel Move Time	
		Test	Limit	Aggregate Transmission Time	Limit	Test	Limit
5530	1	< 200 ms	200 ms	7.324 ms	60 ms	< 10 s	10 s

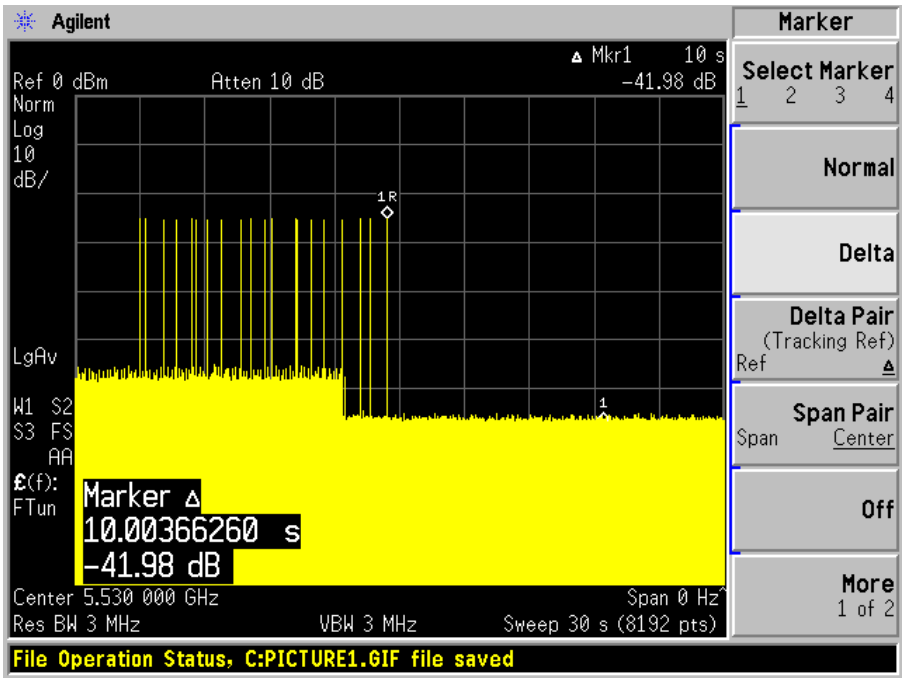




Type 5 radar channel move time result:

The traffic ceases at the end of the radar waveform, therefore it also ceases at 10 seconds after the end of the radar waveform.

Frequency (MHz)	Radar Type	Channel Closing Transmission Time				Channel Move Time	
		Test	Limit	Aggregate Transmission Time	Limit	Test	Limit
5530	5	< 200 ms	200 ms	0 ms	60 ms	< 10 s	10 s



8 Non-Occupancy Period

8.1 Test Procedure

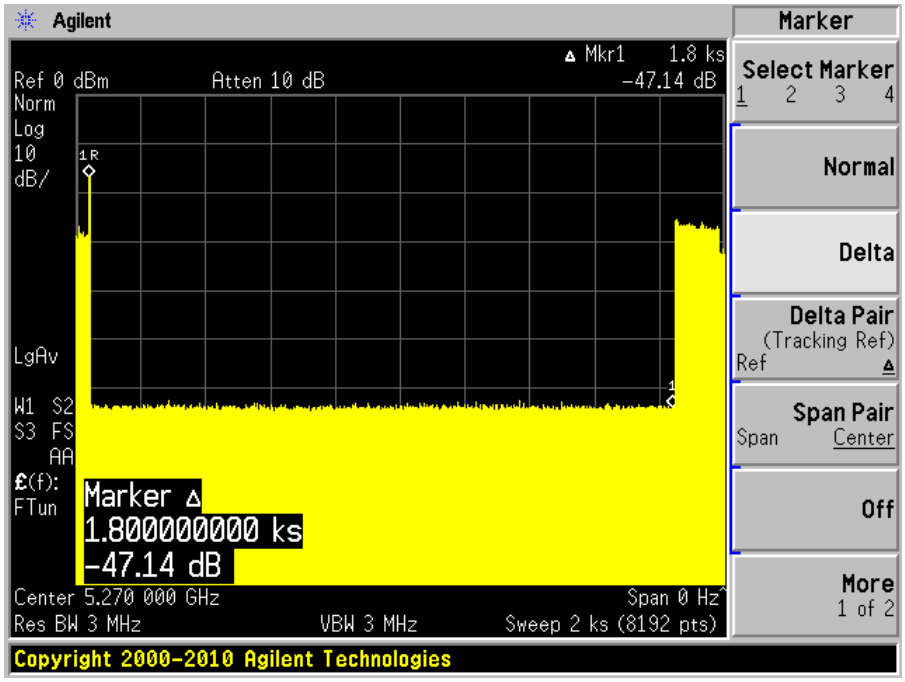
Measure the EUT for more than 30 minutes following the channel close/move time to very that the EUT does not resume any transmissions on this channel. Provide one plot to demonstrate no transmission on the channel for the non-occupancy period (30 minutes observation time)

8.2 Test Results

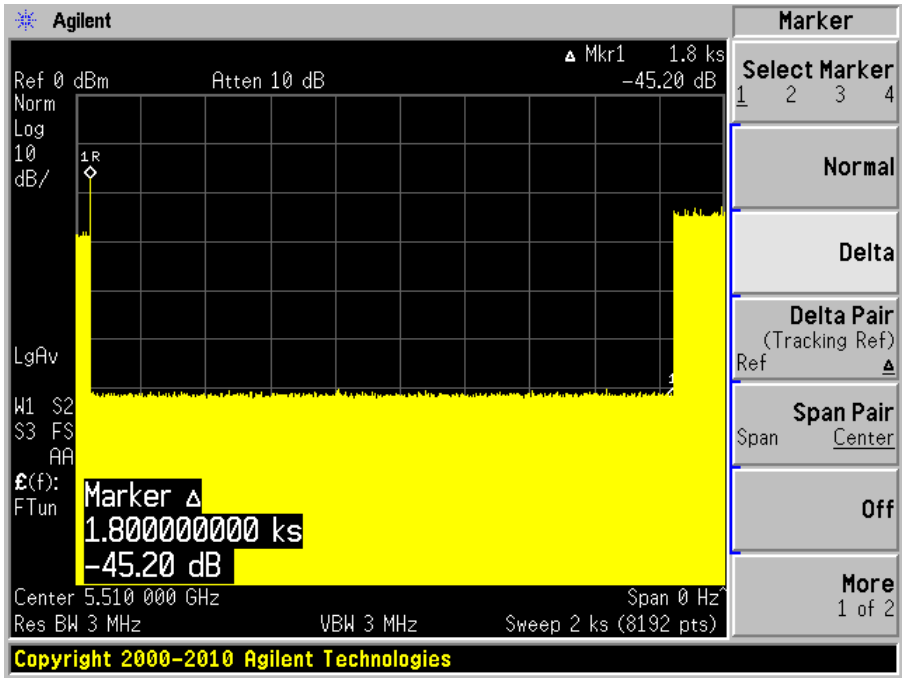
Frequency (MHz)	Bandwidth (MHz)	Spectrum Analyzer Display
5270	40	No transmission within 30 minutes
5510	40	No transmission within 30 minutes
5290	80	No transmission within 30 minutes
5530	80	No transmission within 30 minutes

Please refer to the following plots.

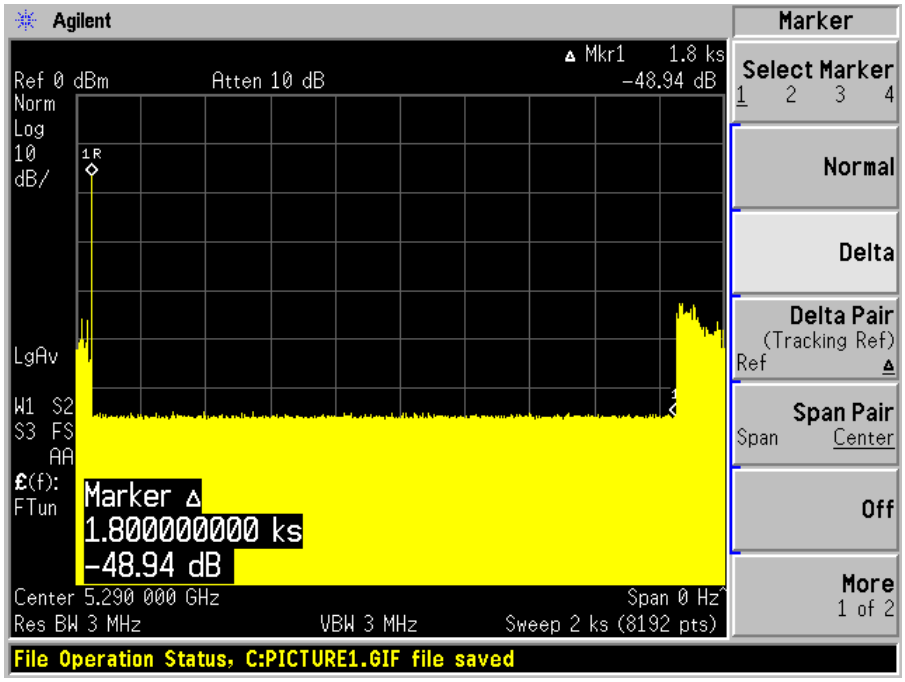
5270 MHz, Bandwidth 40 MHz



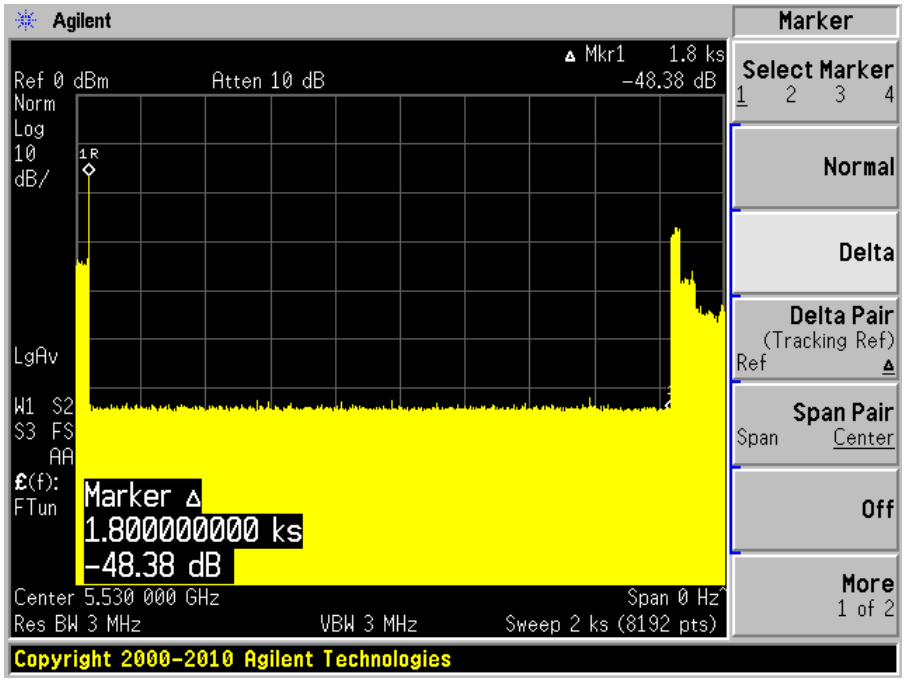
5510 MHz, Bandwidth 40 MHz



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 1, 2, 3 or 4)

Start with radar generator frequency set to the center of the channel (Fc)
Perform at least 10 trials and confirm at least 90% detected
Increment radar generator frequency by 1 MHz and repeat
Perform at least 10 trials and confirm at least 90% detected
Continue incrementing the radar frequency until detection rate falls below 90%

Starting at Fc - 1 MHz, repeat the process, this time decrementing the radar frequency by 1 MHz

F_L is the lowest frequency at which detection was 80% or better
F_H is the highest frequency at which detection was 80% or better

UNII Detection Bandwidth = $F_H - F_L$

Test Results

Frequency (MHz)	F_L (MHz)	F_H (MHz)	Detection Bandwidth (MHz)	Minimum Limit	Result
5270	5249	5291	42	80%	Compliance
5510	5489	5531	42	80%	Compliance
5290	5251	5330	79	80%	Compliance
5530	5491	5569	78	80%	Compliance

Please refer to the following tables and plots.

Results of Detection Bandwidth:

EUT Frequency = 5270 MHz											
DFS Detection Trials (1 = Detected, Blank = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5248	0	0	0	0	0	0	0	0	0	0	00 %
5249(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5250	1	1	1	1	1	1	1	1	1	1	100 %
5252	1	1	1	1	1	1	1	1	1	1	100 %
5254	1	1	1	1	1	1	1	1	1	1	100 %
5256	1	1	1	1	1	1	1	1	1	1	100 %
5258	1	1	1	1	1	1	1	1	1	1	100 %
5260	1	1	1	1	1	1	1	1	1	1	100 %
5262	1	1	1	1	1	1	1	1	1	1	100 %
5264	1	1	1	1	1	1	1	1	1	1	100 %
5266	1	1	1	1	1	1	1	1	1	1	100 %
5268	1	1	1	1	1	1	1	1	1	1	100 %
5270(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5272	1	1	1	1	1	1	1	1	1	1	100 %
5274	1	1	1	1	1	1	1	1	1	1	100 %
5276	1	1	1	1	1	1	1	1	1	1	100 %
5278	1	1	1	1	1	1	1	1	1	1	100 %
5280	1	1	1	1	1	1	1	1	1	1	100 %
5282	1	1	1	1	1	1	1	1	1	1	100 %
5284	1	1	1	1	1	1	1	1	1	1	100 %
5286	1	1	1	1	1	1	1	1	1	1	100 %
5288	1	1	1	1	1	1	1	1	1	1	100 %
5290	1	1	1	1	1	1	1	1	1	1	100 %
5291(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5292	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = $F_H - F_L$=5291-5249=42 MHz											
EUT 99% OBW = 36.3897 MHz; 36.3897 x 80% = 29.11176 MHz **Result:** Pass											

EUT Frequency = 5510 MHz											
DFS Detection Trials (1 = Detected, Blank = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5488	0	0	0	0	0	0	0	0	0	0	0 %
5489(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5490	1	1	1	1	1	1	1	1	1	1	100 %
5492	1	1	1	1	1	1	1	1	1	1	100 %
5494	1	1	1	1	1	1	1	1	1	1	100 %
5496	1	1	1	1	1	1	1	1	1	1	100 %
5498	1	1	1	1	1	1	1	1	1	1	100 %
5500	1	1	1	1	1	1	1	1	1	1	100 %
5502	1	1	1	1	1	1	1	1	1	1	100 %
5504	1	1	1	1	1	1	1	1	1	1	100 %
5506	1	1	1	1	1	1	1	1	1	1	100 %
5508	1	1	1	1	1	1	1	1	1	1	100 %
5510(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5512	1	1	1	1	1	1	1	1	1	1	100 %
5514	1	1	1	1	1	1	1	1	1	1	100 %
5516	1	1	1	1	1	1	1	1	1	1	100 %
5518	1	1	1	1	1	1	1	1	1	1	100 %
5520	1	1	1	1	1	1	1	1	1	1	100 %
5522	1	1	1	1	1	1	1	1	1	1	100 %
5524	1	1	1	1	1	1	1	1	1	1	100 %
5526	1	1	1	1	1	1	1	1	1	1	100 %
5528	1	1	1	1	1	1	1	1	1	1	100 %
5530	1	1	1	1	1	1	1	1	1	1	100 %
5531(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5532	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = $F_H - F_L$ =5531-5489=42 MHz											
EUT 99% OBW = 36.3836 MHz; 36.3836 x 80% = 29.10688 MHz **Result:** Pass											

EUT Frequency = 5290 MHz											
DFS Detection Trials (1 = Detected, Blank = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5250	0	0	0	0	0	0	0	0	0	0	0 %
5251(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5254	1	1	1	1	1	1	1	1	1	1	100 %
5258	1	1	1	1	1	1	1	1	1	1	100 %
5262	1	1	1	1	1	1	1	1	1	1	100 %
5266	1	1	1	1	1	1	1	1	1	1	100 %
5270	1	1	1	1	1	1	1	1	1	1	100 %
5274	1	1	1	1	1	1	1	1	1	1	100 %
5278	1	1	1	1	1	1	1	1	1	1	100 %
5282	1	1	1	1	1	1	1	1	1	1	100 %
5286	1	1	1	1	1	1	1	1	1	1	100 %
5290(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5294	1	1	1	1	1	1	1	1	1	1	100 %
5298	1	1	1	1	1	1	1	1	1	1	100 %
5302	1	1	1	1	1	1	1	1	1	1	100 %
5306	1	1	1	1	1	1	1	1	1	1	100 %
5310	1	1	1	1	1	1	1	1	1	1	100 %
5314	1	1	1	1	1	1	1	1	1	1	100 %
5318	1	1	1	1	1	1	1	1	1	1	100 %
5322	1	1	1	1	1	1	1	1	1	1	100 %
5326	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 = $F_H - F_L$ =5330-5251=79 MHz											
EUT 99% OBW = 75.4534 MHz; 75.4534 x 80% = 60.36288 MHz										**Result:**	Pass

EUT Frequency = 5530 MHz											
DFS Detection Trials (1 = Detected, Blank = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5490	0	0	0	0	0	0	0	0	0	0	0 %
5491(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5494	1	1	1	1	1	1	1	1	1	1	100 %
5498	1	1	1	1	1	1	1	1	1	1	100 %
5502	1	1	1	1	1	1	1	1	1	1	100 %
5506	1	1	1	1	1	1	1	1	1	1	100 %
5510	1	1	1	1	1	1	1	1	1	1	100 %
5514	1	1	1	1	1	1	1	1	1	1	100 %
5518	1	1	1	1	1	1	1	1	1	1	100 %
5522	1	1	1	1	1	1	1	1	1	1	100 %
5526	1	1	1	1	1	1	1	1	1	1	100 %
5530 (Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5534	1	1	1	1	1	1	1	1	1	1	100 %
5538	1	1	1	1	1	1	1	1	1	1	100 %
5542	1	1	1	1	1	1	1	1	1	1	100 %
5546	1	1	1	1	1	1	1	1	1	1	100 %
5550	1	1	1	1	1	1	1	1	1	1	100 %
5554	1	1	1	1	1	1	1	1	1	1	100 %
5558	1	1	1	1	1	1	1	1	1	1	100 %
5562	1	1	1	1	1	1	1	1	1	1	100 %
5566	1	1	1	1	1	1	1	1	1	1	100 %
5569(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5570	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = $F_H - F_L$ =5569–5491=78 MHz											
EUT 99% OBW =75.4654 MHz; 75.4654 x 80% = 60.37232 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 1, 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:

5270 MHz, 40 MHz Bandwidth

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

Please refer to the following statistical tables:

5270 MHz, 40 MHz Bandwidth

Table-1 Radar Type 1 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5270	18	1	1428	1
2	5270	18	1	1428	1
3	5270	18	1	1428	1
4	5270	18	1	1428	1
5	5270	18	1	1428	1
6	5270	18	1	1428	1
7	5270	18	1	1428	1
8	5270	18	1	1428	1
9	5270	18	1	1428	1
10	5270	18	1	1428	1
11	5270	18	1	1428	1
12	5270	18	1	1428	1
13	5270	18	1	1428	1
14	5270	18	1	1428	1
15	5270	18	1	1428	1
16	5270	18	1	1428	1
17	5270	18	1	1428	1
18	5270	18	1	1428	1
19	5270	18	1	1428	1
20	5270	18	1	1428	1
21	5270	18	1	1428	1
22	5270	18	1	1428	1
23	5270	18	1	1428	1
24	5270	18	1	1428	1
25	5270	18	1	1428	1
26	5270	18	1	1428	1
27	5270	18	1	1428	1
28	5270	18	1	1428	1
29	5270	18	1	1428	1
30	5270	18	1	1428	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	25	1.6	201	1
2	5270	25	4.2	212	1
3	5270	26	2.5	230	1
4	5270	26	3.1	195	1
5	5270	25	4.4	172	1
6	5270	23	2.3	204	1
7	5270	24	2.8	196	1
8	5270	23	2.4	156	1
9	5270	26	1.2	173	1
10	5270	25	5	163	1
11	5270	25	4.3	226	1
12	5270	24	1	226	1
13	5270	26	3.8	155	1
14	5270	28	1.7	180	1
15	5270	26	2.5	218	1
16	5270	28	4.7	170	1
17	5270	26	4.4	167	1
18	5270	26	2.6	220	1
19	5270	29	4	221	1
20	5270	25	4.9	150	1
21	5270	25	4.4	208	1
22	5270	23	2.5	181	1
23	5270	25	2.4	215	1
24	5270	26	2.3	209	1
25	5270	26	2.8	203	1
26	5270	27	4.1	189	0
27	5270	27	3.6	186	1
28	5270	28	2.7	172	1
29	5270	23	1.2	192	1
30	5270	25	1.5	230	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	5270	18	6.3	418	1
2	5270	18	6.8	216	1
3	5270	16	6.7	381	1
4	5270	17	8.3	310	1
5	5270	16	9	425	1
6	5270	17	6.5	324	1
7	5270	17	9	387	1
8	5270	16	8.7	349	1
9	5270	16	6.8	436	1
10	5270	17	6	234	1
11	5270	17	6.1	286	1
12	5270	18	9.3	405	1
13	5270	17	10	249	1
14	5270	18	6.8	499	1
15	5270	16	9.9	276	1
16	5270	16	7.5	430	1
17	5270	18	6.7	261	1
18	5270	16	6.7	296	1
19	5270	18	7.9	488	1
20	5270	17	6.1	208	1
21	5270	18	7.6	482	1
22	5270	16	9.2	405	1
23	5270	18	8.4	231	1
24	5270	16	8.4	241	1
25	5270	18	7.4	477	1
26	5270	17	7.3	260	1
27	5270	16	9.8	310	1
28	5270	17	6.1	366	1
29	5270	17	7	478	1
30	5270	18	9.3	216	1
Detection Percentage: 100 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5270	15	11.2	474	1
2	5270	16	18.1	284	0
3	5270	15	14	308	1
4	5270	13	19.2	328	0
5	5270	12	17.3	283	1
6	5270	14	19	401	0
7	5270	14	17.6	263	1
8	5270	13	16.7	311	1
9	5270	12	17.6	336	1
10	5270	13	15.7	252	1
11	5270	13	15	489	1
12	5270	15	13.4	337	1
13	5270	15	13	359	1
14	5270	14	15.5	458	1
15	5270	12	18.1	333	1
16	5270	12	17.2	346	1
17	5270	16	19.1	455	1
18	5270	13	17	468	1
19	5270	12	14.3	362	1
20	5270	16	14.4	220	1
21	5270	15	14.6	233	1
22	5270	16	16.8	494	1
23	5270	15	16.3	216	1
24	5270	13	17.5	253	1
25	5270	16	11.8	430	1
26	5270	14	19.5	209	1
27	5270	13	16.4	245	1
28	5270	13	17.9	287	1
29	5270	14	14	475	1
30	5270	16	18.3	255	1
Detection Percentage: 90 % (>60%)					

Table-5 Radar Type 5 Statistical Performance

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	62.7	1397		0.77376	1
1	2	11	87.8	1746		0.961509	
2	2	14	86.4	1669		2.342897	
3	2	11	92.6	1056		3.030215	
4	3	7	61.9	1670	1163	3.53481	
5	2	15	51.2	1485		4.419136	
6	2	7	59.2	1355		5.563064	
7	1	14	91.3			6.157782	
8	1	16	82.1			6.786346	
9	2	7	73.8	1319		7.652094	
10	1	6	66			8.006506	
11	1	18	89.4			9.415833	
12	2	13	62.1	1713		9.659118	
13	3	6	74.8	1711	1154	11.17213	
14	2	16	92.8	1112		11.6521	

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	19	92.7			0.305423	1
1	3	10	83.6	1173	1182	0.76999	
2	2	10	91.7	1156		1.645591	
3	2	15	73.2	1178		2.466575	
4	3	14	76.4	1179	1251	3.677868	
5	1	14	77			4.03857	
6	1	17	98.6			4.938699	
7	3	11	90	1026	1109	5.396627	
8	2	15	100	1289		6.165832	
9	3	13	95.2	1966	1171	7.104141	
10	2	7	98.9	1816		7.838466	
11	3	5	70.6	1151	1847	8.706604	
12	2	13	97.5	1676		9.15171	
13	1	19	71.1			9.912993	
14	3	8	89.2	1617	1789	10.92642	
15	2	9	88.2	1813		11.55348	

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	18	97.9	1538	1049	0.078144	
1	2	5	78.7	1576		2.613567	
2	2	6	78.7	1977		2.724402	
3	1	11	53.2			5.037422	
4	2	19	52	1939		6.620825	1
5	3	8	82.6	1353	1052	6.763081	
6	1	13	51.8			8.517722	
7	3	15	92	1741	1821	10.30285	
8	2	16	76.8	1381		11.90197	

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	14	87.4	1524		0.119018	
1	2	9	74.8	1529		1.715298	
2	2	20	55.2	1611		2.456721	
3	2	8	57.8	1983		3.070848	
4	3	15	60.3	1709	1361	4.309264	
5	2	17	75.8	1546		5.186489	
6	2	11	98.4	1904		5.856763	1
7	3	13	81.8	1364	1713	6.804604	
8	1	6	83.8			7.764075	
9	2	13	54.8	1425		9.191057	
10	2	12	82.2	1344		9.928666	
11	2	8	52.2	1785		10.88246	
12	1	17	55.8			11.60971	

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	12	98.2			0.429261	1
1	2	8	90.2	1033		1.196397	
2	2	13	57.1	1180		1.506246	
3	1	17	71.8			2.538092	
4	2	8	99.2	1024		2.997941	
5	3	8	84.1	1387	1408	3.584186	
6	3	5	77.5	1842	1492	4.285741	
7	2	12	50.9	1943		5.166626	
8	2	18	76.5	1359		5.661467	
9	1	16	77.7			6.22276	
10	2	14	86.1	1454		7.323123	
11	2	12	82.3	1337		7.738045	
12	2	18	92.1	1104		8.424012	
13	2	7	73.2	1979		9.266859	
14	2	16	57.9	1330		9.851427	
15	2	20	57.3	1491		10.38648	
16	2	10	87.2	1194		10.7425	
17	2	7	91.9	1493		11.50741	

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	67.7			0.327987	1
1	3	12	79.3	1499	1441	1.32347	
2	2	8	53.3	1415		1.966323	
3	3	12	96.8	1421	1866	2.398661	
4	2	14	69.5	1003		3.281958	
5	3	12	84.7	1724	1772	3.606078	
6	1	6	70.5			4.599568	
7	3	8	56.6	1527	1790	5.156705	
8	1	5	96.3			5.578206	
9	3	19	76.6	1774	1863	6.117603	
10	2	14	99.7	1599		7.290014	
11	2	17	71.3	1293		7.38666	
12	2	20	74.7	1972		8.511648	
13	2	14	71.3	1044		9.269018	
14	2	11	69.8	1394		9.461376	
15	2	7	75.5	1394		10.29515	
16	2	10	53.6	1213		10.81388	
17	3	13	84.3	1465	1052	11.77697	

Bin5 Statistics 7

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	19	87.6	1073	1926	0.213414	1
1	3	6	56.2	1606	1913	1.168353	
2	2	8	53.4	1045		2.460807	
3	3	15	86.3	1018	1073	3.171248	
4	2	6	81.7	1899		4.283139	
5	1	13	69.1			5.785372	
6	2	12	61	1127		6.908264	
7	2	15	79	1853		7.110928	
8	2	15	55.5	1635		8.429599	
9	1	8	80.1			9.027245	
10	2	10	94.6	1680		10.95999	
11	1	11	95.2			11.33849	

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	90	1232		0.333361	
1	2	12	77.3	1052		0.90471	
2	2	12	58.3	1972		2.100023	
3	2	6	99.5	1525		2.287236	
4	2	9	90.4	1131		3.3966	
5	2	14	52	1402		4.018361	
6	1	14	79.6			4.258131	
7	2	14	53.1	1638		5.127387	
8	1	7	82.5			5.8301	1
9	3	7	88.2	1408	1699	6.892247	
10	2	15	95.8	1711		7.303749	
11	2	20	68.3	1593		8.351289	
12	1	15	87.3			8.509737	
13	2	8	50.2	1175		9.341063	
14	2	7	72.1	1869		10.43946	
15	1	6	66.1			11.02601	
16	2	16	76.6	1379		11.38249	

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	83	1387		0.51176	
1	2	11	54.8	1717		1.445006	
2	2	17	87.5	1033		2.125226	
3	2	16	63.3	1661		2.375047	
4	2	12	95.5	1595		3.721473	
5	2	18	68.5	1056		4.489132	
6	3	19	85.5	1709	1932	4.57623	
7	3	16	94.4	1451	1275	5.329946	
8	3	7	77.6	1277	1098	6.495056	1
9	2	5	90.4	1042		6.948858	
10	2	17	55.2	1397		7.771537	
11	1	11	86			8.99	
12	3	13	57.7	1384	1763	9.555151	
13	3	17	83.9	1101	1936	9.89352	
14	2	10	56.1	1621		10.69334	
15	3	12	96.8	1688	1946	11.67953	

Bin5 Statistics 10

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	13	99			0.061984	1
1	1	6	59.8			1.168692	
2	2	11	100	1912		1.314629	
3	3	12	91.8	1933	1538	2.248903	
4	3	11	67.6	1229	1039	2.759781	
5	2	20	90.5	1017		3.277896	
6	1	13	98.5			3.702593	
7	2	6	53.6	1226		4.298841	
8	3	13	79.3	1653	1957	5.359136	
9	3	15	92.4	1194	1209	5.764384	
10	2	6	69.8	1510		6.2993	
11	2	5	66.4	1661		6.813703	
12	2	13	76	1182		7.664375	
13	3	7	95.6	1548	1172	8.360503	
14	2	17	53	1391		8.613835	
15	2	8	68.5	1068		9.274571	
16	2	16	62.4	1181		9.946132	
17	1	18	75.4			10.21247	
18	2	10	64.5	1193		10.97902	
19	2	12	58.6	1189		11.55116	

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	12	95.2	1220		0.737421	
1	3	17	70	1702	1138	1.409857	
2	3	16	84.2	1420	1560	1.557474	
3	3	13	58.1	1448	1261	2.643067	
4	3	16	67	1058	1179	3.283963	
5	1	10	67.2			4.010822	
6	3	13	56.8	1155	1337	4.964419	
7	3	16	67.4	1101	1568	5.273006	
8	2	19	88.9	1630		6.11439	1
9	1	10	54.3			7.485019	
10	2	6	94.1	1034		7.759236	
11	1	12	80.7			8.483431	
12	1	14	64			9.089535	
13	1	11	86.8			10.38728	
14	1	17	83.4			10.94512	
15	2	14	51.1	1986		11.78498	

Bin5 Statistics 12

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	8	66.3			0.354078	
1	3	10	97.1	1258	1628	2.264536	
2	1	6	51.4			2.757378	
3	3	13	82.8	1590	1457	4.132645	
4	2	7	91.3	1706		6.02317	1
5	3	16	61.7	1136	1759	7.176604	
6	1	16	91.7			9.233562	
7	2	14	89.9	1911		9.536751	
8	3	15	91.7	1950	1665	11.93195	

Bin5 Statistics 13

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	17	73	1682		0.238867	
1	1	20	60.6			1.691661	
2	2	19	75.1	1957		2.385773	
3	1	9	97.2			3.70901	
4	2	16	87.7	1426		4.677556	
5	2	6	80.6	1454		5.67169	1
6	1	10	86.8			7.366353	
7	2	13	76.3	1348		8.406879	
8	2	17	93	1838		8.763651	
9	1	10	64.4			10.15623	
10	2	7	86.1	1434		11.09608	

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	14	76.8	1382		0.170504	
1	2	11	86	1851		0.970509	
2	1	11	84.8			1.693268	
3	2	5	52.4	1258		2.40592	
4	1	19	93.4			3.512696	
5	1	17	61			4.018045	
6	3	6	97.4	1364	1449	4.290664	
7	2	15	68.5	1918		5.348814	
8	3	16	54.6	1886	1493	5.932599	0
9	3	20	80.5	1988	1672	6.862471	
10	2	20	55.3	1003		7.455762	
11	3	18	90.4	1108	1212	8.338655	
12	2	5	63.7	1664		8.536907	
13	3	8	71.2	1795	1292	9.718075	
14	1	15	62.9			10.5134	
15	2	7	52.9	1885		10.65326	
16	3	13	80.9	1773	1595	11.86147	

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	7	68.6	1944	1065	0.464553	1
1	2	8	58.9	1894		1.825019	
2	1	13	59.4			2.167751	
3	2	6	73.2	1326		3.102779	
4	1	10	74.1			4.369196	
5	3	11	70.5	1089	1378	5.371712	
6	2	19	77.5	1824		6.917224	
7	3	18	93.9	1441	1714	7.048913	
8	3	9	63.8	1793	1642	8.002987	
9	3	17	71.4	1423	1474	9.714513	
10	2	11	50	1203		10.83403	
11	2	16	99.7	1091		11.10245	

Bin5 Statistics 16

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	18	78.5			0.331427	1
1	2	17	84.2	1682		0.728814	
2	1	6	98.4			1.749632	
3	2	16	85.1	1607		2.557641	
4	1	13	84.7			2.826406	
5	2	8	93.3	1111		3.714825	
6	2	18	94.4	1603		4.567857	
7	2	18	82.9	1589		5.404123	
8	2	18	76.4	1559		6.032582	
9	3	14	76.1	1993	1550	6.428735	
10	2	10	87	1597		7.338604	
11	2	14	58.7	1660		8.005781	
12	2	7	93.2	1119		9.099905	
13	1	6	55.3			9.642081	
14	1	8	70.2			10.35973	
15	2	11	74.9	1579		10.91856	
16	1	17	93.8			11.33259	

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	6	57.3	1609		0.741587	
1	3	15	75.5	1502	1290	1.046967	
2	1	10	79.3			2.22137	
3	1	18	76.4			3.672171	
4	1	18	67.4			4.362611	
5	2	10	86.7	1586		5.134954	
6	3	18	72	1911	1537	5.985101	1
7	1	6	56.3			6.710329	
8	2	19	78.1	1143		7.889787	
9	2	10	60.8	1995		8.903433	
10	2	6	73.7	1099		9.402756	
11	3	12	57.4	1764	1891	10.72352	
12	2	8	55.7	1244		11.70088	

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	78	1566		1.20577	
1	2	7	57.8	1117		2.576991	
2	1	5	80.4			3.420908	
3	2	7	74.1	1185		5.864654	
4	2	18	75	1132		6.521664	1
5	2	17	83.8	1877		8.377258	
6	2	15	57.3	1392		10.17088	
7	2	14	97.3	1992		11.52023	

Bin5 Statistics 19

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	15	59.6	1275	1694	0.10074	
1	2	9	54	1611		0.656128	
2	2	12	95.7	1578		1.504089	
3	2	15	61.6	1288		2.025933	
4	1	9	97			2.879856	
5	2	6	66.8	1384		3.346209	
6	2	12	77.1	1293		4.205978	
7	2	7	71.3	1933		4.44367	
8	2	5	82.3	1700		5.528271	
9	2	11	80.1	1385		6.030979	1
10	1	8	58.8			6.396696	
11	2	16	85	1133		7.401607	
12	2	9	76.3	1148		7.872021	
13	2	7	84.3	1200		8.295916	
14	1	12	74.8			9.386679	
15	2	14	93.7	1674		9.826258	
16	2	17	82.5	1674		10.63655	
17	1	9	82.5			10.88556	
18	1	19	99.2			11.821	

Bin5 Statistics 20

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	15	79.8	1484	1175	1.065573	
1	3	11	72	1241	1964	1.872096	
2	2	17	67.1	1591		3.609679	
3	2	10	69.1	1555		4.753356	
4	3	10	62.1	1217	1655	6.17208	1
5	2	12	94.9	1081		6.89524	
6	3	6	86.4	1769	1142	8.825254	
7	3	9	91.6	1832	1655	9.425369	
8	3	9	74.9	1271	1594	10.76535	

Bin5 Statistics 21

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	13	82.9	1433		0.25269	
1	1	15	83.8			1.273888	
2	2	11	59.9	1765		2.083406	
3	1	13	97.4			2.882246	
4	1	15	50			4.024964	
5	3	14	75.3	1814	1480	4.699658	
6	1	18	94.5			5.636058	1
7	1	6	91.1			6.524523	
8	3	19	61.6	1215	1259	7.398058	
9	3	5	51.1	1797	1078	8.358764	
10	3	10	94.1	1630	1208	9.530301	
11	2	11	77.5	1616		10.19426	
12	3	19	63.2	1373	1627	11.47117	

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	6	95.8	1235		0.911588	
1	2	5	68.3	1800		1.825731	
2	2	11	84.6	1174		2.587288	
3	2	7	63.5	1897		4.351207	
4	2	14	79	1806		5.25816	
5	3	9	81	1543	1212	5.657687	1
6	2	13	90.7	1721		6.616768	
7	2	17	83.9	1346		7.743329	
8	2	9	52.4	1818		9.373868	
9	1	6	74			9.913801	
10	3	12	62.6	1551	1019	11.9885	

Bin5 Statistics 23

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	17	90	1697	1746	0.181666	0
1	2	17	67.7	1914		1.123369	
2	3	10	61.4	1542	1475	1.999766	
3	1	12	91.3			3.000023	
4	1	20	50.4			3.729719	
5	3	19	51.9	1172	1342	4.761004	
6	2	8	90.5	1984		4.865218	
7	2	17	56.2	1031		6.014297	
8	3	9	62.4	1029	1717	6.982927	
9	1	14	74.6			7.461169	
10	2	12	98.7	1573		8.353578	
11	1	10	66.3			9.099945	
12	2	11	63.2	1375		9.968835	
13	2	5	89.5	1690		10.98573	
14	3	20	95.2	1075	1173	11.27578	

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	89.8	1520		0.109735	1
1	2	20	56	1227		1.874777	
2	2	15	55	1270		2.710996	
3	2	16	86.4	1416		3.051689	
4	1	17	71			4.001403	
5	1	18	62.7			5.642549	
6	3	6	57.9	1756	1380	6.735476	
7	1	20	95.1			7.238173	
8	2	7	77.5	1482		8.433512	
9	2	19	69.9	1093		9.777674	
10	3	20	71.1	1570	1903	10.43843	
11	2	19	54.8	1941		11.87972	

Bin5 Statistics 25

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	8	53.8	1759		0.752259	
1	2	8	70.4	1027		1.981717	
2	2	5	56.1	1412		2.775191	
3	2	16	62.9	1547		4.705794	
4	3	5	99.6	1590	1671	5.660925	1
5	2	13	56.6	1448		7.804223	
6	2	8	53.4	1668		8.656508	
7	2	6	88.6	1932		9.564367	
8	2	6	58.6	1567		11.5935	

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	12	56.8			0.150444	
1	2	7	51.1	1149		1.268485	
2	1	20	68.7			2.63599	
3	3	17	88.8	1589	1145	3.277083	
4	2	8	59.8	1607		4.796027	
5	2	20	65	1994		6.098742	1
6	1	18	97.4			7.451943	
7	1	18	59.1			8.124501	
8	1	7	80.5			8.947732	
9	2	10	62.7	1466		10.28987	
10	2	16	87.3	1917		11.80146	

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	11	97.4			0.627153	1
1	2	16	53	1951		1.505847	
2	2	19	70.1	1468		1.733774	
3	1	11	73.4			3.117547	
4	3	19	96.5	1569	1322	3.51347	
5	2	13	87	1448		5.016401	
6	3	7	97.7	1705	1715	5.979126	
7	2	7	72.1	1899		6.553161	
8	1	16	95.2			7.025951	
9	1	18	97.4			8.039021	
10	2	14	79.1	1149		9.386701	
11	2	19	50.3	1832		10.01381	
12	2	8	75.5	1260		10.30713	
13	1	17	72.9			11.98654	

Bin5 Statistics 28

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	7	76.8			0.082412	1
1	2	19	99.9	1544		1.218724	
2	1	7	58.4			2.293179	
3	2	10	99.9	1757		3.398992	
4	1	10	97.7			5.226004	
5	3	17	53.7	1801	1859	5.965304	
6	3	13	69.6	1773	1976	6.770127	
7	2	19	67.5	1680		8.291426	
8	2	19	81.7	1876		9.805386	
9	3	12	91.1	1395	1627	10.62503	
10	1	18	75.8			11.53183	

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	8	69.4	1264		0.341597	1
1	2	6	94	1189		0.943901	
2	2	12	72.4	1070		1.332513	
3	2	16	96.9	1626		2.35258	
4	3	7	88	1611	1039	2.990556	
5	2	7	87.1	1194		3.382274	
6	3	6	75	1737	1690	3.835304	
7	1	6	92.5			5.045745	
8	2	13	90.5	1927		5.36579	
9	2	13	71.3	1307		6.240907	
10	3	17	75.8	1375	1790	6.357987	
11	2	19	81.6	1211		7.462602	
12	1	19	64.9			7.630242	
13	2	10	52.2	1482		8.651226	
14	2	16	79.8	1349		8.915807	
15	2	18	60.4	1564		9.585927	
16	2	15	71.3	1194		10.23828	
17	2	13	60.7	1820		10.82565	
18	2	16	71.6	1513		11.72195	

Bin5 Statistics 30

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	17	74.4	1530		0.556509	1
1	2	18	88.6	1164		1.302192	
2	2	18	96	1011		1.906845	
3	1	9	59.4			2.281213	
4	2	8	74.8	1533		2.767843	
5	3	19	76.6	1013	1339	3.833508	
6	3	13	66.5	1597	1361	4.022733	
7	3	11	90.2	1343	1550	5.047085	
8	3	6	83	1595	1435	5.627227	
9	2	19	70.6	1620		6.163811	
10	1	17	72.1			6.838429	
11	3	13	90.3	1316	1033	7.498411	
12	3	9	82.4	1504	1127	8.599169	
13	2	14	67	1891		8.822952	
14	2	6	53.8	1608		9.926407	
15	3	12	54.4	1925	1807	10.58019	
16	2	6	64.3	1665		10.80657	
17	1	15	96.7			11.60547	

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	0	
2	5270	9	1	333	1	5526.0, 5586.0, 5409.0, 5453.0, 5416.0, 5620.0, 5257.0, 5444.0, 5561.0, 5443.0, 5300.0, 5254.0, 5484.0, 5648.0, 5605.0, 5578.0, 5280.0, 5519.0, 5342.0, 5708.0, 5375.0, 5485.0, 5609.0, 5282.0, 5633.0, 5630.0, 5274.0, 5445.0, 5536.0, 5707.0, 5469.0, 5285.0, 5305.0, 5296.0, 5271.0, 5672.0, 5656.0, 5383.0, 5488.0, 5358.0, 5600.0, 5433.0, 5410.0, 5481.0, 5518.0, 5663.0, 5683.0, 5650.0, 5573.0, 5286.0, 5530.0, 5645.0, 5340.0, 5328.0, 5680.0, 5379.0, 5356.0, 5377.0, 5482.0, 5544.0, 5432.0, 5565.0, 5431.0, 5541.0, 5364.0, 5689.0, 5253.0, 5679.0, 5572.0, 5703.0, 5693.0, 5655.0, 5614.0, 5579.0, 5696.0, 5721.0, 5497.0, 5424.0, 5321.0, 5466.0, 5355.0, 5606.0, 5264.0, 5668.0, 5463.0, 5419.0, 5441.0, 5408.0, 5651.0, 5401.0, 5635.0, 5640.0, 5592.0, 5270.0, 5394.0, 5330.0, 5690.0, 5292.0, 5455.0, 5587.0 (number of hits: 6)
3	5270	9	1	333	1	5485.0, 5353.0, 5475.0, 5305.0, 5706.0, 5573.0, 5270.0, 5709.0, 5538.0, 5547.0, 5490.0, 5409.0, 5555.0, 5699.0, 5710.0, 5378.0, 5636.0, 5526.0, 5408.0, 5275.0, 5462.0, 5505.0, 5363.0, 5322.0, 5286.0, 5483.0, 5544.0, 5660.0, 5371.0, 5619.0, 5295.0, 5386.0, 5678.0, 5273.0, 5417.0, 5446.0, 5540.0, 5300.0, 5659.0, 5379.0, 5278.0, 5690.0, 5356.0, 5711.0, 5622.0, 5695.0, 5377.0, 5341.0, 5267.0, 5604.0, 5288.0, 5260.0, 5572.0, 5263.0, 5315.0, 5309.0, 5489.0, 5501.0, 5720.0, 5714.0, 5335.0, 5569.0, 5477.0, 5518.0, 5691.0, 5328.0, 5413.0, 5587.0, 5385.0, 5294.0, 5388.0, 5716.0, 5617.0, 5631.0, 5392.0, 5306.0, 5458.0, 5301.0, 5536.0, 5407.0, 5503.0, 5500.0, 5528.0, 5479.0, 5589.0, 5523.0, 5419.0, 5683.0, 5657.0, 5679.0, 5262.0, 5673.0, 5291.0, 5522.0, 5635.0, 5625.0, 5368.0, 5565.0, 5579.0, 5406.0 (number of hits: 10)
4	5270	9	1	333	1	5438.0, 5592.0, 5305.0, 5293.0, 5409.0, 5587.0, 5381.0, 5693.0, 5493.0, 5673.0, 5534.0, 5513.0, 5277.0, 5254.0, 5369.0, 5549.0, 5472.0, 5665.0, 5685.0, 5555.0, 5591.0, 5618.0, 5684.0, 5621.0, 5322.0, 5532.0, 5407.0, 5678.0, 5719.0, 5604.0, 5462.0, 5307.0, 5724.0, 5553.0, 5350.0, 5590.0, 5635.0, 5405.0, 5261.0, 5691.0, 5654.0, 5643.0, 5593.0, 5357.0, 5458.0, 5573.0, 5290.0, 5671.0, 5376.0, 5286.0, 5428.0, 5567.0, 5367.0, 5394.0, 5280.0,

						5491.0, 5672.0, 5521.0, 5517.0, 5574.0, 5418.0, 5420.0, 5645.0, 5306.0, 5446.0, 5400.0, 5343.0, 5690.0, 5646.0, 5717.0, 5317.0, 5615.0, 5721.0, 5374.0, 5723.0, 5594.0, 5351.0, 5300.0, 5443.0, 5416.0, 5356.0, 5361.0, 5610.0, 5542.0, 5291.0, 5427.0, 5524.0, 5326.0, 5273.0, 5308.0, 5585.0, 5489.0, 5520.0, 5303.0, 5312.0, 5302.0, 5429.0, 5337.0, 5562.0, 5674.0 (number of hits: 12)
5	5270	9	1	333	1	5375.0, 5676.0, 5262.0, 5699.0, 5441.0, 5568.0, 5658.0, 5540.0, 5330.0, 5535.0, 5396.0, 5536.0, 5477.0, 5394.0, 5319.0, 5707.0, 5372.0, 5307.0, 5611.0, 5632.0, 5273.0, 5724.0, 5417.0, 5622.0, 5723.0, 5382.0, 5569.0, 5302.0, 5628.0, 5672.0, 5716.0, 5671.0, 5314.0, 5529.0, 5566.0, 5511.0, 5467.0, 5575.0, 5567.0, 5539.0, 5442.0, 5355.0, 5476.0, 5630.0, 5487.0, 5656.0, 5493.0, 5400.0, 5496.0, 5437.0, 5322.0, 5453.0, 5266.0, 5706.0, 5602.0, 5646.0, 5426.0, 5582.0, 5402.0, 5318.0, 5363.0, 5337.0, 5482.0, 5409.0, 5624.0, 5589.0, 5432.0, 5662.0, 5563.0, 5368.0, 5650.0, 5334.0, 5413.0, 5389.0, 5619.0, 5450.0, 5311.0, 5605.0, 5669.0, 5343.0, 5527.0, 5651.0, 5321.0, 5288.0, 5679.0, 5277.0, 5465.0, 5642.0, 5415.0, 5578.0, 5391.0, 5647.0, 5571.0, 5533.0, 5502.0, 5484.0, 5510.0, 5518.0, 5543.0, 5541.0 (number of hits: 5)
6	5270	9	1	333	1	5501.0, 5477.0, 5701.0, 5410.0, 5672.0, 5666.0, 5721.0, 5439.0, 5261.0, 5724.0, 5327.0, 5489.0, 5329.0, 5339.0, 5639.0, 5508.0, 5448.0, 5687.0, 5351.0, 5488.0, 5649.0, 5594.0, 5720.0, 5314.0, 5355.0, 5622.0, 5574.0, 5310.0, 5502.0, 5499.0, 5570.0, 5404.0, 5272.0, 5332.0, 5655.0, 5630.0, 5540.0, 5409.0, 5322.0, 5637.0, 5343.0, 5454.0, 5471.0, 5299.0, 5601.0, 5705.0, 5360.0, 5527.0, 5709.0, 5632.0, 5702.0, 5389.0, 5588.0, 5250.0, 5421.0, 5401.0, 5548.0, 5708.0, 5364.0, 5368.0, 5703.0, 5415.0, 5512.0, 5633.0, 5467.0, 5542.0, 5515.0, 5483.0, 5394.0, 5713.0, 5356.0, 5600.0, 5405.0, 5568.0, 5331.0, 5274.0, 5399.0, 5425.0, 5623.0, 5523.0, 5487.0, 5532.0, 5362.0, 5458.0, 5524.0, 5717.0, 5711.0, 5292.0, 5276.0, 5511.0, 5381.0, 5383.0, 5609.0, 5388.0, 5648.0, 5545.0, 5475.0, 5443.0, 5503.0, 5620.0 (number of hits: 4)
7	5270	9	1	333	1	5608.0, 5497.0, 5378.0, 5391.0, 5492.0, 5670.0, 5455.0, 5552.0, 5569.0, 5618.0, 5709.0, 5304.0, 5527.0, 5648.0, 5719.0, 5476.0, 5504.0, 5317.0, 5371.0, 5534.0, 5252.0, 5480.0, 5631.0, 5438.0, 5363.0, 5693.0, 5580.0, 5532.0, 5645.0, 5433.0, 5498.0, 5372.0, 5483.0, 5616.0, 5560.0, 5338.0, 5686.0, 5531.0, 5582.0, 5508.0,

						5485.0, 5479.0, 5626.0, 5282.0, 5307.0, 5425.0, 5377.0, 5413.0, 5722.0, 5440.0, 5339.0, 5559.0, 5272.0, 5490.0, 5427.0, 5528.0, 5637.0, 5474.0, 5367.0, 5598.0, 5538.0, 5397.0, 5429.0, 5421.0, 5677.0, 5644.0, 5260.0, 5672.0, 5263.0, 5285.0, 5517.0, 5359.0, 5494.0, 5345.0, 5347.0, 5466.0, 5358.0, 5448.0, 5514.0, 5651.0, 5547.0, 5354.0, 5410.0, 5300.0, 5707.0, 5501.0, 5467.0, 5710.0, 5350.0, 5544.0, 5348.0, 5423.0, 5586.0, 5446.0, 5581.0, 5267.0, 5303.0, 5609.0, 5653.0, 5578.0 (number of hits: 5)
8	5270	9	1	333	1	5585.0, 5333.0, 5373.0, 5557.0, 5408.0, 5660.0, 5434.0, 5382.0, 5435.0, 5295.0, 5430.0, 5574.0, 5419.0, 5692.0, 5353.0, 5417.0, 5559.0, 5712.0, 5424.0, 5473.0, 5262.0, 5647.0, 5347.0, 5680.0, 5367.0, 5464.0, 5269.0, 5368.0, 5402.0, 5296.0, 5555.0, 5648.0, 5723.0, 5590.0, 5518.0, 5573.0, 5456.0, 5433.0, 5509.0, 5718.0, 5480.0, 5281.0, 5572.0, 5400.0, 5587.0, 5606.0, 5413.0, 5658.0, 5542.0, 5589.0, 5294.0, 5534.0, 5340.0, 5345.0, 5502.0, 5519.0, 5483.0, 5431.0, 5441.0, 5252.0, 5565.0, 5436.0, 5501.0, 5493.0, 5611.0, 5551.0, 5258.0, 5612.0, 5653.0, 5306.0, 5507.0, 5481.0, 5403.0, 5592.0, 5348.0, 5394.0, 5423.0, 5260.0, 5538.0, 5379.0, 5684.0, 5563.0, 5659.0, 5327.0, 5724.0, 5305.0, 5426.0, 5638.0, 5410.0, 5618.0, 5681.0, 5651.0, 5337.0, 5412.0, 5553.0, 5487.0, 5695.0, 5486.0, 5300.0, 5558.0 (number of hits: 6)
9	5270	9	1	333	1	5464.0, 5624.0, 5316.0, 5569.0, 5291.0, 5329.0, 5677.0, 5463.0, 5266.0, 5407.0, 5547.0, 5344.0, 5487.0, 5320.0, 5349.0, 5337.0, 5710.0, 5380.0, 5312.0, 5599.0, 5505.0, 5693.0, 5680.0, 5382.0, 5672.0, 5558.0, 5567.0, 5482.0, 5583.0, 5433.0, 5500.0, 5323.0, 5477.0, 5259.0, 5668.0, 5483.0, 5315.0, 5416.0, 5654.0, 5703.0, 5267.0, 5585.0, 5269.0, 5684.0, 5531.0, 5421.0, 5561.0, 5475.0, 5581.0, 5324.0, 5311.0, 5471.0, 5526.0, 5402.0, 5264.0, 5427.0, 5376.0, 5313.0, 5690.0, 5494.0, 5300.0, 5721.0, 5650.0, 5338.0, 5533.0, 5444.0, 5626.0, 5550.0, 5688.0, 5681.0, 5298.0, 5503.0, 5564.0, 5590.0, 5665.0, 5260.0, 5368.0, 5456.0, 5270.0, 5441.0, 5529.0, 5498.0, 5589.0, 5285.0, 5632.0, 5723.0, 5627.0, 5573.0, 5394.0, 5263.0, 5510.0, 5469.0, 5261.0, 5546.0, 5290.0, 5295.0, 5277.0, 5422.0, 5468.0, 5559.0 (number of hits: 9)
10	5270	9	1	333	1	5252.0, 5665.0, 5534.0, 5490.0, 5706.0, 5425.0, 5379.0, 5461.0, 5516.0, 5395.0, 5613.0, 5448.0, 5554.0, 5367.0, 5451.0, 5588.0, 5723.0, 5609.0, 5386.0, 5300.0, 5456.0, 5658.0, 5724.0, 5718.0, 5318.0,

						5431.0, 5329.0, 5320.0, 5429.0, 5681.0, 5287.0, 5614.0, 5284.0, 5295.0, 5602.0, 5527.0, 5685.0, 5639.0, 5273.0, 5401.0, 5394.0, 5668.0, 5543.0, 5502.0, 5674.0, 5250.0, 5529.0, 5701.0, 5494.0, 5403.0, 5565.0, 5460.0, 5488.0, 5560.0, 5595.0, 5686.0, 5465.0, 5496.0, 5712.0, 5542.0, 5568.0, 5393.0, 5349.0, 5610.0, 5504.0, 5326.0, 5293.0, 5657.0, 5492.0, 5341.0, 5351.0, 5497.0, 5650.0, 5269.0, 5255.0, 5430.0, 5616.0, 5626.0, 5344.0, 5505.0, 5392.0, 5343.0, 5263.0, 5330.0, 5485.0, 5409.0, 5286.0, 5612.0, 5467.0, 5677.0, 5664.0, 5526.0, 5541.0, 5374.0, 5608.0, 5599.0, 5469.0, 5662.0, 5719.0, 5424.0 (number of hits: 5)
11	5270	9	1	333	1	5273.0, 5450.0, 5600.0, 5399.0, 5306.0, 5412.0, 5285.0, 5586.0, 5402.0, 5574.0, 5465.0, 5680.0, 5648.0, 5610.0, 5477.0, 5623.0, 5422.0, 5676.0, 5420.0, 5251.0, 5456.0, 5598.0, 5581.0, 5668.0, 5582.0, 5712.0, 5601.0, 5527.0, 5695.0, 5671.0, 5305.0, 5383.0, 5645.0, 5320.0, 5326.0, 5670.0, 5344.0, 5455.0, 5419.0, 5597.0, 5573.0, 5564.0, 5302.0, 5531.0, 5350.0, 5374.0, 5557.0, 5395.0, 5460.0, 5683.0, 5327.0, 5262.0, 5384.0, 5304.0, 5494.0, 5518.0, 5288.0, 5550.0, 5626.0, 5583.0, 5523.0, 5391.0, 5660.0, 5475.0, 5321.0, 5438.0, 5519.0, 5277.0, 5551.0, 5713.0, 5360.0, 5543.0, 5351.0, 5652.0, 5709.0, 5613.0, 5453.0, 5397.0, 5355.0, 5375.0, 5406.0, 5257.0, 5372.0, 5576.0, 5513.0, 5373.0, 5346.0, 5546.0, 5694.0, 5394.0, 5570.0, 5545.0, 5615.0, 5538.0, 5451.0, 5476.0, 5473.0, 5442.0, 5497.0, 5495.0 (number of hits: 6)
12	5270	9	1	333	1	5417.0, 5613.0, 5455.0, 5328.0, 5669.0, 5536.0, 5461.0, 5498.0, 5679.0, 5356.0, 5449.0, 5439.0, 5333.0, 5428.0, 5292.0, 5687.0, 5315.0, 5473.0, 5420.0, 5358.0, 5426.0, 5612.0, 5271.0, 5466.0, 5565.0, 5547.0, 5376.0, 5639.0, 5593.0, 5484.0, 5339.0, 5438.0, 5300.0, 5538.0, 5474.0, 5325.0, 5503.0, 5571.0, 5580.0, 5385.0, 5559.0, 5617.0, 5618.0, 5464.0, 5257.0, 5265.0, 5625.0, 5686.0, 5596.0, 5587.0, 5697.0, 5317.0, 5676.0, 5721.0, 5664.0, 5334.0, 5324.0, 5609.0, 5251.0, 5349.0, 5424.0, 5577.0, 5644.0, 5514.0, 5542.0, 5483.0, 5290.0, 5677.0, 5313.0, 5556.0, 5256.0, 5543.0, 5678.0, 5309.0, 5269.0, 5592.0, 5500.0, 5259.0, 5663.0, 5289.0, 5638.0, 5273.0, 5603.0, 5506.0, 5402.0, 5668.0, 5696.0, 5575.0, 5487.0, 5723.0, 5380.0, 5258.0, 5471.0, 5436.0, 5360.0, 5655.0, 5693.0, 5643.0, 5698.0, 5517.0 (number of hits: 6)
13	5270	9	1	333	1	5282.0, 5356.0, 5457.0, 5345.0, 5439.0, 5501.0, 5336.0, 5400.0, 5264.0, 5505.0,

						5409.0, 5433.0, 5488.0, 5514.0, 5454.0, 5635.0, 5627.0, 5321.0, 5702.0, 5692.0, 5678.0, 5464.0, 5487.0, 5446.0, 5613.0, 5634.0, 5460.0, 5658.0, 5534.0, 5258.0, 5532.0, 5293.0, 5265.0, 5694.0, 5256.0, 5652.0, 5633.0, 5623.0, 5315.0, 5494.0, 5486.0, 5337.0, 5343.0, 5289.0, 5305.0, 5721.0, 5544.0, 5611.0, 5427.0, 5313.0, 5326.0, 5535.0, 5656.0, 5617.0, 5307.0, 5442.0, 5602.0, 5475.0, 5252.0, 5455.0, 5647.0, 5414.0, 5280.0, 5473.0, 5587.0, 5447.0, 5536.0, 5497.0, 5311.0, 5515.0, 5577.0, 5303.0, 5641.0, 5452.0, 5666.0, 5557.0, 5288.0, 5325.0, 5359.0, 5719.0, 5379.0, 5624.0, 5485.0, 5308.0, 5476.0, 5386.0, 5423.0, 5643.0, 5655.0, 5393.0, 5462.0, 5285.0, 5416.0, 5519.0, 5639.0, 5520.0, 5259.0, 5406.0, 5292.0, 5333.0 (number of hits: 11)
14	5270	9	1	333	1	5430.0, 5570.0, 5264.0, 5371.0, 5283.0, 5375.0, 5425.0, 5709.0, 5391.0, 5525.0, 5591.0, 5546.0, 5448.0, 5637.0, 5379.0, 5685.0, 5255.0, 5646.0, 5300.0, 5599.0, 5350.0, 5384.0, 5557.0, 5308.0, 5578.0, 5632.0, 5360.0, 5340.0, 5508.0, 5261.0, 5445.0, 5442.0, 5326.0, 5601.0, 5433.0, 5573.0, 5702.0, 5285.0, 5287.0, 5297.0, 5402.0, 5407.0, 5653.0, 5528.0, 5329.0, 5689.0, 5700.0, 5296.0, 5335.0, 5351.0, 5562.0, 5587.0, 5456.0, 5372.0, 5626.0, 5295.0, 5593.0, 5602.0, 5559.0, 5467.0, 5400.0, 5684.0, 5342.0, 5724.0, 5427.0, 5611.0, 5529.0, 5671.0, 5556.0, 5435.0, 5670.0, 5654.0, 5473.0, 5458.0, 5409.0, 5592.0, 5478.0, 5577.0, 5581.0, 5650.0, 5272.0, 5474.0, 5560.0, 5310.0, 5677.0, 5662.0, 5705.0, 5668.0, 5321.0, 5358.0, 5620.0, 5361.0, 5644.0, 5619.0, 5446.0, 5512.0, 5288.0, 5270.0, 5590.0, 5392.0 (number of hits: 9)
15	5270	9	1	333	1	5350.0, 5476.0, 5335.0, 5482.0, 5257.0, 5308.0, 5568.0, 5508.0, 5520.0, 5267.0, 5645.0, 5531.0, 5626.0, 5560.0, 5636.0, 5541.0, 5264.0, 5260.0, 5674.0, 5530.0, 5275.0, 5614.0, 5632.0, 5296.0, 5410.0, 5416.0, 5483.0, 5333.0, 5623.0, 5447.0, 5311.0, 5673.0, 5495.0, 5346.0, 5567.0, 5656.0, 5682.0, 5533.0, 5383.0, 5596.0, 5405.0, 5431.0, 5426.0, 5571.0, 5545.0, 5326.0, 5548.0, 5429.0, 5687.0, 5700.0, 5345.0, 5538.0, 5663.0, 5618.0, 5349.0, 5440.0, 5523.0, 5465.0, 5378.0, 5407.0, 5594.0, 5589.0, 5690.0, 5490.0, 5438.0, 5500.0, 5373.0, 5658.0, 5599.0, 5363.0, 5492.0, 5366.0, 5653.0, 5672.0, 5670.0, 5491.0, 5574.0, 5602.0, 5271.0, 5362.0, 5708.0, 5421.0, 5705.0, 5562.0, 5348.0, 5470.0, 5340.0, 5310.0, 5475.0, 5352.0, 5649.0, 5536.0, 5511.0, 5543.0, 5710.0, 5364.0, 5353.0, 5707.0, 5547.0, 5270.0

						(number of hits: 4)
16	5270	9	1	333	1	5320.0, 5258.0, 5305.0, 5421.0, 5666.0, 5253.0, 5716.0, 5379.0, 5256.0, 5274.0, 5389.0, 5498.0, 5527.0, 5363.0, 5695.0, 5713.0, 5683.0, 5400.0, 5404.0, 5490.0, 5664.0, 5487.0, 5257.0, 5526.0, 5647.0, 5665.0, 5381.0, 5406.0, 5700.0, 5434.0, 5515.0, 5477.0, 5572.0, 5312.0, 5301.0, 5499.0, 5260.0, 5617.0, 5328.0, 5652.0, 5369.0, 5557.0, 5646.0, 5272.0, 5317.0, 5348.0, 5333.0, 5565.0, 5564.0, 5354.0, 5701.0, 5679.0, 5512.0, 5714.0, 5262.0, 5657.0, 5501.0, 5598.0, 5481.0, 5631.0, 5293.0, 5507.0, 5428.0, 5285.0, 5522.0, 5511.0, 5351.0, 5339.0, 5574.0, 5550.0, 5277.0, 5654.0, 5703.0, 5585.0, 5614.0, 5715.0, 5555.0, 5626.0, 5623.0, 5548.0, 5269.0, 5401.0, 5445.0, 5287.0, 5452.0, 5418.0, 5473.0, 5690.0, 5720.0, 5424.0, 5606.0, 5643.0, 5346.0, 5620.0, 5603.0, 5521.0, 5251.0, 5542.0, 5587.0, 5338.0 (number of hits: 6)
17	5270	9	1	333	1	5301.0, 5315.0, 5654.0, 5564.0, 5384.0, 5651.0, 5636.0, 5565.0, 5580.0, 5292.0, 5695.0, 5554.0, 5586.0, 5449.0, 5327.0, 5522.0, 5480.0, 5624.0, 5282.0, 5622.0, 5599.0, 5637.0, 5287.0, 5368.0, 5606.0, 5711.0, 5357.0, 5510.0, 5375.0, 5457.0, 5350.0, 5663.0, 5569.0, 5668.0, 5451.0, 5615.0, 5643.0, 5294.0, 5401.0, 5533.0, 5645.0, 5369.0, 5421.0, 5524.0, 5337.0, 5466.0, 5426.0, 5264.0, 5345.0, 5288.0, 5409.0, 5316.0, 5546.0, 5452.0, 5398.0, 5521.0, 5474.0, 5605.0, 5625.0, 5602.0, 5593.0, 5470.0, 5680.0, 5491.0, 5689.0, 5673.0, 5552.0, 5431.0, 5326.0, 5317.0, 5696.0, 5626.0, 5676.0, 5404.0, 5562.0, 5706.0, 5646.0, 5639.0, 5697.0, 5425.0, 5432.0, 5707.0, 5485.0, 5596.0, 5722.0, 5460.0, 5492.0, 5543.0, 5281.0, 5263.0, 5662.0, 5511.0, 5684.0, 5614.0, 5658.0, 5267.0, 5716.0, 5410.0, 5627.0, 5661.0 (number of hits: 5)
18	5270	9	1	333	1	5487.0, 5461.0, 5503.0, 5439.0, 5331.0, 5373.0, 5507.0, 5324.0, 5372.0, 5708.0, 5706.0, 5307.0, 5655.0, 5476.0, 5491.0, 5537.0, 5584.0, 5697.0, 5683.0, 5518.0, 5320.0, 5659.0, 5349.0, 5500.0, 5447.0, 5393.0, 5441.0, 5416.0, 5299.0, 5431.0, 5351.0, 5341.0, 5663.0, 5384.0, 5250.0, 5619.0, 5401.0, 5472.0, 5285.0, 5317.0, 5481.0, 5386.0, 5660.0, 5618.0, 5314.0, 5719.0, 5397.0, 5278.0, 5592.0, 5270.0, 5510.0, 5647.0, 5459.0, 5316.0, 5654.0, 5251.0, 5456.0, 5321.0, 5455.0, 5319.0, 5513.0, 5604.0, 5623.0, 5274.0, 5672.0, 5280.0, 5676.0, 5409.0, 5426.0, 5293.0, 5284.0, 5629.0, 5608.0, 5624.0, 5539.0, 5698.0, 5323.0, 5648.0, 5281.0, 5560.0, 5272.0, 5577.0, 5568.0, 5467.0, 5692.0,

						5596.0, 5554.0, 5403.0, 5475.0, 5638.0, 5488.0, 5437.0, 5332.0, 5556.0, 5684.0, 5490.0, 5470.0, 5571.0, 5526.0, 5364.0 (number of hits: 5)
19	5270	9	1	333	1	5369.0, 5611.0, 5491.0, 5323.0, 5331.0, 5388.0, 5637.0, 5288.0, 5291.0, 5707.0, 5657.0, 5345.0, 5251.0, 5581.0, 5387.0, 5648.0, 5583.0, 5431.0, 5688.0, 5556.0, 5298.0, 5361.0, 5684.0, 5276.0, 5285.0, 5644.0, 5536.0, 5375.0, 5718.0, 5302.0, 5282.0, 5507.0, 5708.0, 5427.0, 5492.0, 5654.0, 5573.0, 5319.0, 5689.0, 5578.0, 5704.0, 5420.0, 5617.0, 5466.0, 5691.0, 5524.0, 5598.0, 5488.0, 5518.0, 5519.0, 5651.0, 5717.0, 5253.0, 5477.0, 5459.0, 5674.0, 5602.0, 5437.0, 5446.0, 5613.0, 5575.0, 5261.0, 5546.0, 5478.0, 5496.0, 5332.0, 5664.0, 5693.0, 5418.0, 5505.0, 5252.0, 5682.0, 5576.0, 5671.0, 5303.0, 5311.0, 5547.0, 5300.0, 5668.0, 5672.0, 5452.0, 5336.0, 5616.0, 5428.0, 5260.0, 5533.0, 5362.0, 5471.0, 5467.0, 5705.0, 5596.0, 5624.0, 5341.0, 5480.0, 5545.0, 5326.0, 5722.0, 5455.0, 5372.0, 5563.0 (number of hits: 8)
20	5270	9	1	333	1	5485.0, 5275.0, 5569.0, 5529.0, 5535.0, 5554.0, 5483.0, 5422.0, 5565.0, 5433.0, 5434.0, 5444.0, 5361.0, 5406.0, 5664.0, 5491.0, 5488.0, 5570.0, 5298.0, 5278.0, 5392.0, 5401.0, 5708.0, 5611.0, 5528.0, 5490.0, 5723.0, 5273.0, 5446.0, 5389.0, 5480.0, 5722.0, 5516.0, 5718.0, 5493.0, 5330.0, 5282.0, 5316.0, 5337.0, 5665.0, 5721.0, 5329.0, 5545.0, 5713.0, 5383.0, 5451.0, 5510.0, 5648.0, 5623.0, 5400.0, 5473.0, 5345.0, 5350.0, 5571.0, 5533.0, 5354.0, 5608.0, 5649.0, 5662.0, 5410.0, 5279.0, 5476.0, 5288.0, 5696.0, 5419.0, 5482.0, 5292.0, 5252.0, 5633.0, 5676.0, 5317.0, 5266.0, 5416.0, 5420.0, 5388.0, 5564.0, 5580.0, 5515.0, 5694.0, 5494.0, 5382.0, 5652.0, 5582.0, 5631.0, 5380.0, 5358.0, 5353.0, 5417.0, 5507.0, 5365.0, 5322.0, 5393.0, 5650.0, 5537.0, 5692.0, 5431.0, 5314.0, 5455.0, 5454.0, 5632.0 (number of hits: 4)
21	5270	9	1	333	1	5378.0, 5415.0, 5298.0, 5506.0, 5700.0, 5297.0, 5392.0, 5540.0, 5720.0, 5304.0, 5675.0, 5555.0, 5569.0, 5624.0, 5644.0, 5605.0, 5671.0, 5258.0, 5354.0, 5480.0, 5327.0, 5649.0, 5650.0, 5379.0, 5445.0, 5274.0, 5471.0, 5388.0, 5694.0, 5486.0, 5382.0, 5586.0, 5703.0, 5673.0, 5320.0, 5542.0, 5399.0, 5419.0, 5329.0, 5493.0, 5449.0, 5438.0, 5360.0, 5315.0, 5692.0, 5633.0, 5336.0, 5439.0, 5706.0, 5346.0, 5515.0, 5482.0, 5645.0, 5595.0, 5578.0, 5375.0, 5466.0, 5367.0, 5369.0, 5342.0, 5596.0, 5564.0, 5418.0, 5704.0, 5612.0, 5404.0, 5397.0, 5701.0, 5510.0, 5584.0,

						5380.0, 5604.0, 5356.0, 5311.0, 5560.0, 5577.0, 5384.0, 5496.0, 5487.0, 5477.0, 5608.0, 5456.0, 5434.0, 5648.0, 5554.0, 5479.0, 5583.0, 5454.0, 5714.0, 5490.0, 5507.0, 5469.0, 5521.0, 5688.0, 5440.0, 5394.0, 5485.0, 5263.0, 5355.0, 5306.0 (number of hits: 5)
22	5270	9	1	333	1	5407.0, 5477.0, 5586.0, 5648.0, 5487.0, 5545.0, 5480.0, 5532.0, 5403.0, 5646.0, 5571.0, 5690.0, 5463.0, 5462.0, 5681.0, 5533.0, 5336.0, 5293.0, 5645.0, 5458.0, 5289.0, 5431.0, 5701.0, 5558.0, 5705.0, 5549.0, 5675.0, 5386.0, 5670.0, 5694.0, 5304.0, 5260.0, 5709.0, 5343.0, 5379.0, 5389.0, 5547.0, 5622.0, 5316.0, 5569.0, 5485.0, 5653.0, 5294.0, 5590.0, 5435.0, 5443.0, 5296.0, 5401.0, 5376.0, 5548.0, 5353.0, 5409.0, 5348.0, 5491.0, 5449.0, 5425.0, 5395.0, 5572.0, 5308.0, 5349.0, 5666.0, 5390.0, 5517.0, 5530.0, 5470.0, 5291.0, 5674.0, 5305.0, 5438.0, 5290.0, 5697.0, 5457.0, 5271.0, 5619.0, 5459.0, 5317.0, 5433.0, 5693.0, 5695.0, 5628.0, 5486.0, 5617.0, 5508.0, 5723.0, 5368.0, 5567.0, 5453.0, 5658.0, 5625.0, 5454.0, 5600.0, 5380.0, 5455.0, 5563.0, 5295.0, 5432.0, 5484.0, 5535.0, 5632.0, 5483.0 (number of hits: 10)
23	5270	9	1	333	1	5593.0, 5680.0, 5474.0, 5690.0, 5393.0, 5389.0, 5293.0, 5481.0, 5619.0, 5532.0, 5468.0, 5682.0, 5415.0, 5518.0, 5431.0, 5442.0, 5636.0, 5425.0, 5583.0, 5587.0, 5353.0, 5356.0, 5605.0, 5453.0, 5305.0, 5303.0, 5254.0, 5667.0, 5460.0, 5275.0, 5333.0, 5281.0, 5360.0, 5588.0, 5723.0, 5366.0, 5519.0, 5422.0, 5618.0, 5549.0, 5403.0, 5581.0, 5250.0, 5563.0, 5480.0, 5548.0, 5268.0, 5505.0, 5427.0, 5696.0, 5328.0, 5436.0, 5710.0, 5373.0, 5273.0, 5430.0, 5267.0, 5592.0, 5631.0, 5656.0, 5671.0, 5633.0, 5311.0, 5484.0, 5435.0, 5615.0, 5590.0, 5641.0, 5404.0, 5510.0, 5270.0, 5620.0, 5261.0, 5702.0, 5472.0, 5499.0, 5491.0, 5700.0, 5388.0, 5648.0, 5335.0, 5655.0, 5576.0, 5698.0, 5665.0, 5643.0, 5424.0, 5708.0, 5283.0, 5722.0, 5612.0, 5437.0, 5495.0, 5347.0, 5362.0, 5718.0, 5707.0, 5288.0, 5552.0, 5323.0 (number of hits: 5)
24	5270	9	1	333	1	5377.0, 5325.0, 5693.0, 5345.0, 5421.0, 5471.0, 5623.0, 5550.0, 5609.0, 5438.0, 5669.0, 5497.0, 5472.0, 5571.0, 5611.0, 5306.0, 5408.0, 5341.0, 5502.0, 5430.0, 5574.0, 5655.0, 5618.0, 5672.0, 5274.0, 5365.0, 5364.0, 5615.0, 5491.0, 5302.0, 5273.0, 5590.0, 5281.0, 5416.0, 5624.0, 5465.0, 5385.0, 5712.0, 5527.0, 5599.0, 5495.0, 5504.0, 5717.0, 5603.0, 5638.0, 5682.0, 5543.0, 5452.0, 5327.0, 5540.0, 5420.0, 5263.0, 5301.0, 5583.0, 5417.0,

						5271.0, 5539.0, 5403.0, 5284.0, 5648.0, 5537.0, 5684.0, 5598.0, 5447.0, 5445.0, 5608.0, 5630.0, 5714.0, 5402.0, 5601.0, 5556.0, 5541.0, 5676.0, 5706.0, 5607.0, 5348.0, 5525.0, 5311.0, 5253.0, 5483.0, 5674.0, 5506.0, 5313.0, 5613.0, 5562.0, 5560.0, 5276.0, 5331.0, 5481.0, 5272.0, 5361.0, 5702.0, 5356.0, 5619.0, 5487.0, 5646.0, 5371.0, 5498.0, 5434.0, 5261.0 (number of hits: 5)
25	5270	9	1	333	1	5631.0, 5431.0, 5391.0, 5293.0, 5664.0, 5498.0, 5344.0, 5484.0, 5422.0, 5351.0, 5440.0, 5474.0, 5497.0, 5547.0, 5629.0, 5427.0, 5621.0, 5357.0, 5627.0, 5606.0, 5593.0, 5525.0, 5641.0, 5316.0, 5407.0, 5292.0, 5430.0, 5289.0, 5410.0, 5600.0, 5503.0, 5500.0, 5660.0, 5262.0, 5408.0, 5258.0, 5602.0, 5504.0, 5318.0, 5613.0, 5425.0, 5329.0, 5388.0, 5372.0, 5396.0, 5417.0, 5586.0, 5323.0, 5405.0, 5252.0, 5630.0, 5387.0, 5667.0, 5349.0, 5524.0, 5270.0, 5383.0, 5637.0, 5662.0, 5659.0, 5402.0, 5619.0, 5598.0, 5605.0, 5434.0, 5691.0, 5451.0, 5478.0, 5701.0, 5633.0, 5684.0, 5553.0, 5657.0, 5432.0, 5722.0, 5529.0, 5315.0, 5374.0, 5634.0, 5420.0, 5643.0, 5448.0, 5437.0, 5378.0, 5353.0, 5538.0, 5286.0, 5557.0, 5390.0, 5319.0, 5676.0, 5494.0, 5505.0, 5294.0, 5342.0, 5515.0, 5653.0, 5436.0, 5334.0, 5640.0 (number of hits: 5)
26	5270	9	1	333	1	5340.0, 5632.0, 5415.0, 5664.0, 5607.0, 5299.0, 5289.0, 5670.0, 5329.0, 5363.0, 5399.0, 5658.0, 5537.0, 5646.0, 5405.0, 5260.0, 5675.0, 5705.0, 5706.0, 5421.0, 5258.0, 5327.0, 5549.0, 5269.0, 5359.0, 5637.0, 5412.0, 5318.0, 5595.0, 5301.0, 5305.0, 5290.0, 5484.0, 5332.0, 5519.0, 5546.0, 5492.0, 5669.0, 5345.0, 5594.0, 5615.0, 5530.0, 5426.0, 5628.0, 5419.0, 5626.0, 5443.0, 5500.0, 5714.0, 5572.0, 5563.0, 5470.0, 5401.0, 5649.0, 5272.0, 5577.0, 5579.0, 5633.0, 5375.0, 5518.0, 5275.0, 5682.0, 5416.0, 5622.0, 5309.0, 5697.0, 5599.0, 5583.0, 5642.0, 5413.0, 5293.0, 5538.0, 5608.0, 5522.0, 5384.0, 5489.0, 5611.0, 5314.0, 5639.0, 5574.0, 5612.0, 5570.0, 5427.0, 5596.0, 5505.0, 5252.0, 5657.0, 5436.0, 5616.0, 5501.0, 5525.0, 5486.0, 5510.0, 5283.0, 5627.0, 5618.0, 5382.0, 5259.0, 5288.0, 5543.0 (number of hits: 9)
27	5270	9	1	333	1	5460.0, 5636.0, 5693.0, 5499.0, 5449.0, 5525.0, 5530.0, 5348.0, 5433.0, 5718.0, 5624.0, 5539.0, 5681.0, 5442.0, 5301.0, 5661.0, 5545.0, 5543.0, 5378.0, 5254.0, 5621.0, 5515.0, 5707.0, 5461.0, 5550.0, 5650.0, 5574.0, 5470.0, 5328.0, 5321.0, 5316.0, 5630.0, 5447.0, 5580.0, 5351.0, 5611.0, 5563.0, 5585.0, 5394.0, 5538.0,

						5261.0, 5279.0, 5362.0, 5631.0, 5341.0, 5658.0, 5634.0, 5712.0, 5331.0, 5692.0, 5709.0, 5297.0, 5490.0, 5277.0, 5586.0, 5491.0, 5435.0, 5646.0, 5695.0, 5417.0, 5615.0, 5717.0, 5298.0, 5309.0, 5605.0, 5452.0, 5282.0, 5532.0, 5462.0, 5567.0, 5427.0, 5397.0, 5456.0, 5691.0, 5591.0, 5434.0, 5256.0, 5287.0, 5566.0, 5680.0, 5412.0, 5458.0, 5432.0, 5609.0, 5425.0, 5326.0, 5565.0, 5564.0, 5426.0, 5448.0, 5600.0, 5511.0, 5415.0, 5493.0, 5659.0, 5306.0, 5573.0, 5714.0, 5401.0, 5722.0 (number of hits: 6)
28	5270	9	1	333	1	5634.0, 5617.0, 5607.0, 5723.0, 5378.0, 5563.0, 5591.0, 5512.0, 5493.0, 5457.0, 5444.0, 5338.0, 5599.0, 5646.0, 5476.0, 5487.0, 5455.0, 5603.0, 5669.0, 5561.0, 5420.0, 5548.0, 5671.0, 5616.0, 5568.0, 5652.0, 5644.0, 5413.0, 5269.0, 5328.0, 5609.0, 5250.0, 5516.0, 5676.0, 5260.0, 5357.0, 5574.0, 5268.0, 5355.0, 5436.0, 5356.0, 5490.0, 5544.0, 5486.0, 5453.0, 5456.0, 5613.0, 5579.0, 5670.0, 5263.0, 5542.0, 5301.0, 5411.0, 5562.0, 5407.0, 5347.0, 5460.0, 5683.0, 5398.0, 5495.0, 5257.0, 5575.0, 5549.0, 5367.0, 5594.0, 5688.0, 5329.0, 5410.0, 5668.0, 5720.0, 5508.0, 5541.0, 5311.0, 5315.0, 5409.0, 5286.0, 5690.0, 5481.0, 5465.0, 5303.0, 5694.0, 5715.0, 5685.0, 5433.0, 5555.0, 5360.0, 5474.0, 5291.0, 5558.0, 5421.0, 5706.0, 5681.0, 5655.0, 5612.0, 5660.0, 5501.0, 5580.0, 5528.0, 5418.0, 5592.0 (number of hits: 5)
29	5270	9	1	333	1	5284.0, 5532.0, 5669.0, 5685.0, 5324.0, 5569.0, 5723.0, 5395.0, 5327.0, 5499.0, 5573.0, 5446.0, 5289.0, 5365.0, 5654.0, 5299.0, 5534.0, 5488.0, 5258.0, 5518.0, 5509.0, 5657.0, 5484.0, 5554.0, 5358.0, 5589.0, 5535.0, 5526.0, 5666.0, 5722.0, 5660.0, 5260.0, 5344.0, 5287.0, 5706.0, 5378.0, 5699.0, 5419.0, 5629.0, 5285.0, 5298.0, 5390.0, 5590.0, 5418.0, 5565.0, 5414.0, 5547.0, 5371.0, 5437.0, 5659.0, 5682.0, 5458.0, 5451.0, 5577.0, 5281.0, 5584.0, 5713.0, 5408.0, 5354.0, 5705.0, 5711.0, 5502.0, 5702.0, 5668.0, 5649.0, 5396.0, 5588.0, 5530.0, 5616.0, 5331.0, 5650.0, 5687.0, 5599.0, 5430.0, 5403.0, 5597.0, 5521.0, 5424.0, 5413.0, 5263.0, 5673.0, 5523.0, 5636.0, 5553.0, 5342.0, 5427.0, 5473.0, 5325.0, 5506.0, 5561.0, 5667.0, 5550.0, 5382.0, 5306.0, 5277.0, 5640.0, 5480.0, 5340.0, 5637.0, 5520.0 (number of hits: 6)
30	5270	9	1	333	1	5452.0, 5317.0, 5498.0, 5334.0, 5715.0, 5301.0, 5678.0, 5335.0, 5444.0, 5598.0, 5698.0, 5635.0, 5494.0, 5675.0, 5615.0, 5663.0, 5569.0, 5422.0, 5622.0, 5669.0, 5497.0, 5620.0, 5423.0, 5587.0, 5680.0,

						5505.0, 5475.0, 5523.0, 5483.0, 5390.0, 5352.0, 5708.0, 5666.0, 5292.0, 5432.0, 5443.0, 5321.0, 5289.0, 5650.0, 5487.0, 5464.0, 5706.0, 5565.0, 5283.0, 5581.0, 5600.0, 5486.0, 5325.0, 5329.0, 5515.0, 5631.0, 5359.0, 5442.0, 5437.0, 5323.0, 5586.0, 5563.0, 5723.0, 5303.0, 5324.0, 5621.0, 5595.0, 5535.0, 5461.0, 5561.0, 5388.0, 5401.0, 5263.0, 5308.0, 5618.0, 5276.0, 5579.0, 5344.0, 5555.0, 5256.0, 5633.0, 5416.0, 5281.0, 5267.0, 5375.0, 5418.0, 5655.0, 5517.0, 5564.0, 5314.0, 5380.0, 5427.0, 5327.0, 5274.0, 5527.0, 5385.0, 5417.0, 5711.0, 5608.0, 5507.0, 5543.0, 5354.0, 5582.0, 5315.0, 5322.0 (number of hits: 6)

5510 MHz, 40 MHz Bandwidth

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1	30	100 %	60%	Pass
Type 2	30	80 %	60%	Pass
Type 3	30	70 %	60%	Pass
Type 4	30	73.30 %	60%	Pass
Aggregate (Type1 to 4)	120	80.8 %	80%	Pass
Type 5	30	100 %	80%	Pass
Type 6	30	100 %	70%	Pass

Please refer to the following statistical tables:

Table-1 Radar Type 1 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5510	18	1	1428	1
2	5510	18	1	1428	1
3	5510	18	1	1428	1
4	5510	18	1	1428	1
5	5510	18	1	1428	1
6	5510	18	1	1428	1
7	5510	18	1	1428	1
8	5510	18	1	1428	1
9	5510	18	1	1428	1
10	5510	18	1	1428	1
11	5510	18	1	1428	1
12	5510	18	1	1428	1
13	5510	18	1	1428	1
14	5510	18	1	1428	1
15	5510	18	1	1428	1
16	5510	18	1	1428	1
17	5510	18	1	1428	1
18	5510	18	1	1428	1
19	5510	18	1	1428	1
20	5510	18	1	1428	1
21	5510	18	1	1428	1
22	5510	18	1	1428	1
23	5510	18	1	1428	1
24	5510	18	1	1428	1
25	5510	18	1	1428	1
26	5510	18	1	1428	1
27	5510	18	1	1428	1
28	5510	18	1	1428	1
29	5510	18	1	1428	1
30	5510	18	1	1428	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	28	2.6	155	0
2	5510	26	1.5	223	0
3	5510	25	4	180	1
4	5510	29	2.7	230	1
5	5510	26	2.9	218	1
6	5510	27	1.7	170	1
7	5510	25	3	185	1
8	5510	23	1.1	214	1
9	5510	26	4.1	214	1
10	5510	23	3.9	190	1
11	5510	27	1	213	1
12	5510	25	1.4	210	1
13	5510	29	2	200	0
14	5510	23	3	185	1
15	5510	24	3.5	227	0
16	5510	27	1.9	210	0
17	5510	24	1.4	193	1
18	5510	28	4.5	186	1
19	5510	25	3.5	166	1
20	5510	26	3.1	207	1
21	5510	29	3.1	177	1
22	5510	29	4.4	176	1
23	5510	26	3.7	192	1
24	5510	27	4.3	178	1
25	5510	23	4.2	215	1
26	5510	24	3.4	222	1
27	5510	25	2.6	223	0
28	5510	26	1.4	230	1
29	5510	28	3.6	217	1
30	5510	29	3.1	182	1
Detection Percentage: 80 % (>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	7	337	1
2	5510	18	8.8	235	0
3	5510	18	9.3	496	1
4	5510	17	6	349	1
5	5510	17	9	419	1
6	5510	16	9.8	373	0
7	5510	18	8.9	348	1
8	5510	16	9.8	432	1
9	5510	18	9.1	482	1
10	5510	17	9.4	373	1
11	5510	17	8.8	363	0
12	5510	18	7.8	298	1
13	5510	17	7	294	1
14	5510	17	9.8	393	0
15	5510	18	6	458	1
16	5510	18	9.7	269	1
17	5510	17	6.9	279	1
18	5510	16	9.2	491	1
19	5510	16	9.4	443	1
20	5510	18	8.6	213	0
21	5510	16	6.7	488	1
22	5510	16	7.1	257	0
23	5510	18	7	336	1
24	5510	16	8.4	488	1
25	5510	16	7.1	390	0
26	5510	18	6.2	482	0
27	5510	17	9.2	468	1
28	5510	18	6.2	321	0
29	5510	18	6.6	230	1
30	5510	18	6.9	297	1
Detection Percentage: 70 % (>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	14	18.8	478	1
2	5510	12	18.4	350	1
3	5510	15	13.3	342	0
4	5510	13	12.4	332	1
5	5510	13	14.5	407	1
6	5510	14	15.2	322	1
7	5510	14	14	467	1
8	5510	13	16.7	209	0
9	5510	12	16.5	426	1
10	5510	15	18.3	249	0
11	5510	14	14.7	360	0
12	5510	13	17.7	434	1
13	5510	15	14.6	232	0
14	5510	14	15.7	398	0
15	5510	16	19.4	227	1
16	5510	12	17	318	1
17	5510	14	17.8	329	1
18	5510	14	12.8	276	1
19	5510	13	11.2	421	1
20	5510	12	11.9	294	1
21	5510	12	12.4	291	1
22	5510	15	14.3	283	0
23	5510	15	11.1	219	1
24	5510	14	14.3	216	1
25	5510	14	18.8	356	1
26	5510	13	19.1	467	1
27	5510	15	18.2	296	0
28	5510	14	14.4	330	1
29	5510	12	18.9	416	1
30	5510	15	13.6	358	1
Detection Percentage: 100 % (>60%)					

Table-5 Radar Type 5 Statistical Performance

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	8	74.3	1542		0.2321	
1	2	18	55.4	1889		1.092024	
2	2	12	86.1	1983		2.456155	
3	2	9	51.4	1746		2.854165	
4	2	9	97.9	1307		3.940927	
5	1	14	63			4.377981	
6	3	16	85.9	1816	1997	5.374313	
7	2	13	59.4	1202		6.158652	1
8	2	13	60.7	1458		7.654197	
9	2	18	73	1855		8.514158	
10	1	20	67.4			8.978131	
11	1	17	51.6			9.496937	
12	2	14	61.4	1146		11.06519	
13	1	14	82.7			11.37971	

Bin5 Statistics 2

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	10	73.4	1411		0.11323	
1	2	7	97.8	1849		0.952155	
2	1	10	72.5			1.586545	
3	2	19	76	1875		2.482579	
4	2	14	59.1	1025		2.994743	
5	2	16	61.8	1799		3.323972	
6	2	7	72.8	1832		4.012222	
7	2	14	76.2	1295		4.943477	
8	2	16	73.8	1813		5.340184	
9	3	9	86.9	1031	1413	6.192308	1
10	2	18	50.5	1727		6.388577	
11	3	8	54.7	1282	1571	7.475835	
12	3	5	67.4	1636	1518	7.654922	
13	2	10	51.8	1819		8.827555	
14	2	8	55.8	1608		9.245356	
15	3	19	67.9	1591	1437	9.681706	
16	2	18	80.5	1020		10.61557	
17	2	19	84.1	1043		11.14859	
18	3	10	56.9	1671	1732	11.73107	

Bin5 Statistics 3

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	10	77.9	1691		0.090203	
1	2	18	68	1127		1.865141	
2	2	19	72.6	1806		2.465221	
3	3	18	91	1826	1795	3.728869	
4	2	10	57.5	1514		5.382995	
5	1	13	74.4			6.509811	1
6	3	6	83.3	1732	1490	7.315309	
7	3	17	62.9	1779	1154	8.410377	
8	1	13	91.9			8.997148	
9	2	15	84.9	1528		10.034754	
10	2	15	53.5	1343		11.056769	

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	9	53.4	1375		0.544947	1
1	1	18	64.9			1.796891	
2	1	15	65.9			2.506845	
3	3	14	98	1334	1484	3.221866	
4	2	19	84.6	1814		4.833683	
5	2	6	77.9	1780		5.104934	
6	2	7	83.3	1506		6.388891	
7	2	20	50.7	1192		7.274423	
8	2	6	87.1	1262		8.917065	
9	2	12	58.9	1144		9.920606	
10	3	12	63.5	1603	1060	10.574493	
11	2	20	69	1103		11.007546	

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	16	97.2	1939	1496	0.344668	1
1	1	12	57.9			2.502998	
2	1	13	97.3			3.826529	
3	2	19	68.1	1039		4.102307	
4	3	17	66	1439	1352	5.349827	
5	1	10	60.4			7.091756	
6	3	18	67.6	1861	1580	8.218693	
7	2	19	55.6	1799		10.308121	
8	2	18	53.6	1465		11.443069	

Bin5 Statistics 6

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	7	90.8	1835	1356	0.267954	
1	1	12	61.8			1.413853	
2	3	8	58.3	1897	1190	3.670667	
3	2	18	93	1623		4.031084	
4	2	9	62.7	1598		6.283186	1
5	1	12	73.9			7.773826	
6	3	14	85.7	1710	1280	8.781081	
7	2	15	84.4	1509		10.161283	
8	2	9	87.2	1258		10.969435	

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	17	86.1	1075		0.749634	
1	2	10	83.5	1847		1.98126	
2	3	5	92.3	1824	1275	2.919613	
3	2	6	63.9	1314		4.056585	
4	1	12	99.8			6.246724	1
5	1	8	53.4			7.578519	
6	1	11	81.6			9.125518	
7	1	6	57.5			9.493125	
8	2	7	61.3	1088		11.454375	

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	19	70.3	1682	1803	0.297504	1
1	2	11	86.2	1822		1.560039	
2	1	16	87.6			3.085405	
3	1	19	76.2			3.954691	
4	2	12	86.9	1926		5.054229	
5	1	8	62.9			6.518943	
6	1	13	91.7			7.914991	
7	2	9	93.9	1361		8.677839	
8	2	8	71.1	1345		10.608939	
9	1	12	81.8			11.418804	

Bin5 Statistics 9

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	8	54	1112		0.163759	1
1	2	20	98.1	1901		1.392579	
2	2	6	66.5	1905		2.371069	
3	2	11	90.5	1504		3.789467	
4	2	6	58.7	1531		4.256445	
5	2	12	61.3	1931		5.9148	
6	1	10	60.3			6.325713	
7	2	9	82.4	1522		7.352042	
8	2	10	59.9	1515		8.199151	
9	1	15	87.5			9.799856	
10	1	17	68.1			10.444658	
11	2	16	97.2	1145		11.577831	

Bin5 Statistics 10

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	15	77.3			0.213722	
1	2	13	60.5	1088		0.865104	
2	3	6	94.2	1346	1117	1.780647	
3	3	11	77.7	1621	1296	2.0242	
4	1	14	77.4			3.141632	
5	1	20	92.2			3.596373	
6	1	6	80.8			4.136254	
7	2	11	85.7	1230		4.783289	
8	2	17	92.3	1869		5.104797	
9	3	5	79.1	1431	1412	5.686734	1
10	2	7	79.8	1684		6.335178	
11	2	7	81.4	1026		7.074396	
12	3	19	57.6	1931	1572	7.64117	
13	3	18	80.2	1241	1973	8.458212	
14	2	20	64.6	1187		9.144786	
15	2	5	66.4	1910		10.0175	
16	2	9	51.7	1800		10.332587	
17	2	11	80.8	1808		10.913453	
18	3	12	75.3	1140	1804	11.75577	

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	94	1603		0.002318	
1	2	11	67.7	1390		1.297607	
2	1	12	56.2			2.551465	
3	3	6	63.1	1153	1720	3.111053	
4	2	17	70.6	1460		4.183406	
5	1	13	84.6			4.906505	
6	3	19	52.6	1998	1975	5.316362	
7	1	18	87.2			6.635316	1
8	1	9	94.6			7.011846	
9	2	14	70.3	1040		7.976196	
10	2	11	70.5	1511		8.775254	
11	2	14	64.1	1002		9.949821	
12	3	17	88.9	1397	1185	10.829204	
13	1	7	51.6			11.495269	

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	17	67.2	1473	1790	0.027955	
1	2	19	79.5	1811		2.133626	
2	3	10	60.8	1526	1518	2.497344	
3	1	7	69.5			3.403889	
4	2	11	70.7	1179		5.118973	
5	3	12	55.1	1033	1126	6.477459	1
6	3	18	83	1401	1755	7.622924	
7	3	12	54	1113	1948	7.962152	
8	2	19	62.6	1394		9.734454	
9	3	14	98.8	1135	1947	10.798119	
10	2	15	77.2	1993		11.015347	

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	57.9	1834		0.028458	
1	3	9	88.2	1768	1464	1.070353	
2	3	14	80.5	1105	1422	1.492576	
3	2	13	87.9	1183		2.331127	
4	2	13	88.3	1041		3.02977	
5	2	16	58.3	1607		3.877571	
6	3	7	94	1683	1515	4.584375	
7	2	14	84.3	1160		5.124681	
8	3	7	64.7	1551	1942	5.604692	
9	3	20	56.2	1856	1859	6.484486	1
10	2	14	85.9	1921		6.68916	
11	3	7	76.7	1579	1007	7.45958	
12	2	18	81.9	1331		8.141709	
13	2	16	96.2	1539		8.7514	
14	3	6	77.1	1819	1343	9.475652	
15	2	20	87.3	1338		10.026377	
16	1	18	86.6			11.060795	
17	1	9	56.6			11.752616	

Bin5 Statistics 14

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	15	73.7	1658		0.284281	
1	2	14	55.5	1947		0.683621	
2	2	11	90.5	1475		1.666428	
3	2	15	93.3	1041		2.387111	
4	2	14	69.8	1287		3.01964	
5	1	15	56.3			3.519476	
6	2	8	86.7	1704		4.166208	
7	1	13	91.7			4.776471	
8	3	17	75.7	1326	1457	5.667496	
9	3	7	79.1	1541	1116	5.789344	1
10	1	8	57.4			6.799332	
11	1	8	83.8			6.97709	
12	3	12	85.1	1851	1082	7.94716	
13	3	13	84.8	1608	1717	8.444083	
14	2	12	89.3	1729		8.935625	
15	2	13	58	1635		9.661407	
16	2	5	69.7	1532		10.664353	
17	1	19	51.6			10.839338	
18	2	6	53.8	1709		11.701845	

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	85.2			0.412484	1
1	2	10	82.8	1795		0.750533	
2	3	6	58.9	1869	1588	1.843622	
3	3	14	70.5	1708	1818	2.9911	
4	3	10	92.9	1786	1847	3.49068	
5	3	8	97.6	1309	1457	4.490208	
6	3	8	87.6	1758	1227	5.237219	
7	1	14	79.9			5.715576	
8	1	7	65.8			6.629646	
9	3	13	56.6	1853	1677	6.815148	
10	1	6	90.7			8.119428	
11	2	17	76.5	1577		8.795969	
12	1	12	73.9			9.057073	
13	2	15	86.3	1718		9.849923	
14	2	19	98.5	1423		10.922451	
15	2	12	70.1	1675		11.306508	

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	9	50.3	1293		0.754493	1
1	2	15	82.2	1955		1.671637	
2	2	11	75	1578		3.148823	
3	1	8	65.8			4.547907	
4	3	8	96.3	1660	1446	5.907448	
5	1	13	73.5			6.597684	
6	1	20	63.4			7.243322	
7	2	17	66.6	1570		8.658067	
8	2	12	68.5	1578		9.850684	
9	3	13	95.6	1409	1601	11.290052	

Bin5 Statistics 17

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	11	56	1534	1145	1.268589	
1	3	9	94.9	1097	1807	1.962787	
2	2	8	58.7	1605		3.382328	
3	2	18	99.7	1558		4.719682	
4	3	16	80	1487	1654	6.502207	1
5	2	16	87.7	1824		7.622416	
6	1	12	57.9			8.582054	
7	1	10	61.2			9.536725	
8	3	18	94.4	1252	1604	11.227208	

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	15	92.2	1024		0.00125	
1	3	15	69.8	1604	1369	1.066125	
2	3	14	54	1974	1028	1.613932	
3	2	14	86.9	1530		2.394424	
4	3	11	85.7	1195	1044	3.105768	
5	2	18	68.4	1430		3.676383	
6	2	16	93.8	1408		4.170516	
7	3	10	63.6	1514	1841	5.027589	
8	3	14	53	1119	1318	5.939037	
9	3	19	51.7	1493	1151	6.148753	1
10	2	9	94.7	1936		7.01399	
11	2	18	64.1	1882		7.933979	
12	1	10	95.1			8.448603	
13	1	9	72.8			9.102976	
14	1	14	86			9.689819	
15	3	19	66.3	1258	1089	10.008852	
16	1	10	66.8			10.982158	
17	3	17	88.1	1691	1305	11.652057	

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	6	92.1			0.460255	1
1	1	15	52.5			1.289338	
2	3	19	54.3	1141	1019	2.041209	
3	3	19	75.7	1496	1879	3.308792	
4	2	11	76	1517		4.643997	
5	1	17	77.1			5.388433	
6	1	9	73.3			6.127094	
7	1	14	61.9			7.392133	
8	1	12	92.6			8.626385	
9	2	16	74.8	1304		9.86429	
10	1	19	52.5			10.910835	
11	2	13	71.2	1915		11.337677	

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	16	74			0.54256	1
1	2	18	72.1	1248		0.823326	
2	2	15	71	1738		1.802687	
3	2	10	55.3	1308		2.28244	
4	2	17	83.9	1872		3.045051	
5	2	16	58.6	1433		4.288382	
6	2	11	50.8	1844		4.535592	
7	3	14	81.1	1716	1770	5.513334	
8	2	8	87.2	1138		6.070219	
9	2	19	70.6	1420		7.264902	
10	1	16	66.8			8.092106	
11	2	19	83.4	1119		8.61849	
12	3	11	99	1921	1742	9.391193	
13	3	14	68.1	1368	1072	10.2759	
14	2	18	83	1259		10.693192	
15	2	14	63.9	1568		11.967332	

Bin5 Statistics 21

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	19	58.9	1870		0.317152	
1	2	16	78.8	1207		1.283721	
2	2	7	54.1	1601		1.649829	
3	2	12	57.1	1448		2.62736	
4	2	11	80.2	1443		2.863966	
5	1	18	71.8			3.912001	
6	2	11	88.9	1845		4.756824	
7	2	8	81.1	1896		4.983199	
8	2	7	61.1	1612		5.723446	1
9	3	8	68.3	1832	1763	6.507438	
10	1	17	81			7.106049	
11	2	13	78.2	1469		8.052861	
12	1	14	64.8			8.533903	
13	1	6	60.2			9.379568	
14	2	6	61.2	1036		10.392529	
15	3	7	90.5	1142	1185	10.861831	
16	2	11	62.5	1435		11.832146	

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	55.9	1797		0.203195	
1	2	12	62.1	1994		2.700191	
2	3	5	93.7	1677	1436	3.826604	
3	2	20	98.4	1443		5.439321	
4	1	18	66.4			7.459795	1
5	2	11	60.9	1726		8.392833	
6	2	11	81.9	1240		9.373548	
7	2	17	65.4	1895		11.536732	

Bin5 Statistics 23

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	15	84.2	1357		0.242062	
1	2	19	93.6	1802		2.474676	
2	2	11	86.7	1883		2.776275	
3	1	11	57.3			4.613739	
4	3	12	81.4	1521	1828	6.049837	1
5	1	14	68.8			7.29934	
6	2	6	82.4	1097		8.191397	
7	2	9	99	1789		10.36577	
8	3	11	54.2	1874	1162	11.622714	

Bin5 Statistics 24

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	7	65.8			0.468437	
1	3	13	84.9	1506	1533	0.732986	
2	3	15	64.7	1482	1861	1.985981	
3	2	15	50.9	1232		2.187708	
4	2	19	66.6	1376		2.945406	
5	2	10	62.6	1036		3.980068	
6	2	6	65.7	1798		4.518977	
7	1	10	88.1			5.275647	
8	2	5	58.8	1050		5.584801	
9	2	11	74.6	1973		6.401912	1
10	3	9	91	1702	1469	7.207884	
11	2	6	75.9	1487		7.378732	
12	1	7	93.8			8.448195	
13	1	14	78.7			8.979224	
14	2	15	78.2	1851		9.897148	
15	2	14	86.5	1569		10.232622	
16	1	17	89.1			10.960122	
17	2	11	67.4	1608		11.69775	

Bin5 Statistics 25

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	14	98.2	1133		0.487293	
1	3	14	68	1706	1877	0.960154	
2	2	19	74.3	1096		1.768988	
3	2	15	60.6	1200		2.886269	
4	2	16	63.2	1648		3.357295	
5	2	17	54.4	1406		3.800484	
6	2	5	80.2	1992		4.972838	
7	2	16	68.3	1673		5.796057	
8	2	6	97	1357		6.710811	1
9	3	15	99.7	1542	1656	7.417081	
10	2	6	75	1678		7.503691	
11	2	6	60.2	1967		8.254712	
12	2	14	82.3	1656		9.335336	
13	1	5	55.8			10.037715	
14	1	10	99.7			11.20522	
15	2	6	61.7	1559		11.680402	

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	19	67	1473		0.608218	1
1	2	10	80.9	1448		0.841743	
2	1	8	59.6			1.627397	
3	1	11	55			2.322857	
4	2	8	92.4	1537		3.079216	
5	2	9	58.6	1964		3.984557	
6	2	15	63.5	1691		5.238857	
7	3	14	74.3	1808	1906	5.830964	
8	3	13	55.7	1968	1805	6.202651	
9	2	11	51.5	1798		6.878119	
10	3	17	85	1097	1911	8.191147	
11	1	14	64			8.580196	
12	2	9	55.6	1912		9.518016	
13	1	18	68.1			10.44039	
14	2	17	94.6	1030		10.674363	
15	2	11	76.9	1490		11.316587	

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	9	89.3	1614		0.67827	1
1	3	17	93	1789	1280	1.685504	
2	1	17	93.6			1.961	
3	2	18	63.9	1076		2.610647	
4	3	9	93.4	1212	1511	3.529295	
5	2	6	53.4	1089		4.942653	
6	3	18	53.5	1181	1615	5.202442	
7	3	9	65.5	1037	1307	6.67986	
8	1	17	77.4			6.869427	
9	2	6	77.7	1480		8.047218	
10	3	10	91.2	1794	1974	9.39329	
11	2	15	88.6	1340		10.153706	
12	3	8	75.2	1055	1234	10.296362	
13	3	17	52.8	1714	1800	11.17729	

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	8	68	1296		1.018525	1
1	2	19	73.1	1777		1.659644	
2	2	7	53.4	1547		2.496609	
3	2	10	55	1337		3.834286	
4	3	7	58.3	1719	1748	4.517088	
5	2	8	71.2	1834		6.428708	
6	1	14	84			7.298318	
7	2	8	92.9	1505		7.900835	
8	3	14	61.5	1097	1829	9.386913	
9	2	19	66.2	1850		10.858492	
10	3	13	54.9	1161	1891	11.389833	

Bin5 Statistics 29

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	11	98.1			0.058279	1
1	3	8	79.8	1221	1979	1.389367	
2	1	20	63.6			1.574685	
3	2	6	78.3	1009		2.303306	
4	3	14	60.5	1378	1700	3.047623	
5	2	11	90.5	1477		3.85923	
6	1	19	88.1			4.530065	
7	2	18	83.2	1736		5.976162	
8	2	11	97.8	1071		6.124787	
9	2	6	85.3	1092		6.788686	
10	1	15	96.8			7.973971	
11	2	10	93.8	1162		8.814848	
12	1	12	82.8			9.609522	
13	1	15	87.1			9.763087	
14	2	12	67.2	1324		10.79292	
15	2	13	75.4	1072		11.729266	

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	87.3	1815		0.693313	1
1	1	7	73.8			1.348147	
2	1	10	70.3			2.535849	
3	2	19	100	1617		3.189594	
4	1	5	84.6			3.518951	
5	1	8	72.9			4.888047	
6	2	9	58.4	1892		5.243962	
7	3	20	88.2	1512	1525	6.392528	
8	1	9	79.5			7.604922	
9	1	8	90.8			8.316825	
10	3	16	76	1668	1875	9.092045	
11	2	14	77	1077		9.639615	
12	1	6	70.8			10.520257	
13	1	16	64.7			11.983496	

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	5610.0, 5281.0, 5443.0, 5680.0, 5312.0, 5611.0, 5648.0, 5332.0, 5614.0, 5671.0, 5395.0, 5303.0, 5264.0, 5294.0, 5282.0, 5559.0, 5562.0, 5350.0, 5258.0, 5377.0, 5693.0, 5657.0, 5455.0, 5526.0, 5684.0, 5654.0, 5271.0, 5297.0, 5470.0, 5679.0, 5269.0, 5314.0, 5722.0, 5348.0, 5638.0, 5468.0, 5462.0, 5673.0, 5708.0, 5351.0, 5259.0, 5525.0, 5444.0, 5399.0, 5336.0, 5601.0, 5556.0, 5508.0, 5703.0, 5513.0, 5277.0, 5669.0, 5593.0, 5407.0, 5681.0, 5436.0, 5674.0, 5692.0, 5300.0, 5527.0, 5584.0, 5545.0, 5311.0, 5460.0, 5283.0, 5543.0, 5721.0, 5659.0, 5558.0, 5453.0, 5370.0, 5567.0, 5501.0, 5537.0, 5292.0, 5392.0, 5315.0, 5661.0, 5403.0, 5632.0, 5499.0, 5457.0, 5539.0, 5651.0, 5412.0, 5675.0, 5374.0, 5665.0, 5375.0, 5405.0, 5359.0, 5662.0, 5541.0, 5514.0, 5262.0, 5477.0, 5565.0, 5448.0, 5295.0, 5709.0 (number of hits: 9)
2	5510	9	1	333	1	5394.0, 5335.0, 5318.0, 5646.0, 5309.0, 5353.0, 5440.0, 5289.0, 5300.0, 5291.0, 5679.0, 5684.0, 5448.0, 5262.0, 5650.0, 5690.0, 5723.0, 5516.0, 5621.0, 5550.0, 5485.0, 5292.0, 5459.0, 5593.0, 5599.0, 5716.0, 5331.0, 5678.0, 5470.0, 5587.0, 5558.0, 5352.0, 5503.0, 5319.0, 5436.0, 5495.0, 5575.0, 5544.0, 5625.0, 5602.0, 5659.0, 5252.0, 5613.0, 5412.0, 5592.0, 5323.0, 5325.0, 5482.0, 5378.0, 5345.0, 5460.0, 5274.0, 5388.0, 5520.0, 5428.0, 5270.0, 5251.0, 5350.0, 5570.0, 5310.0, 5277.0, 5608.0, 5614.0, 5508.0, 5693.0, 5527.0, 5399.0, 5395.0, 5435.0, 5577.0, 5637.0, 5545.0, 5320.0, 5556.0, 5624.0, 5478.0, 5444.0, 5525.0, 5493.0, 5617.0, 5561.0, 5315.0, 5496.0, 5668.0, 5595.0, 5266.0, 5441.0, 5290.0, 5400.0, 5720.0, 5531.0, 5427.0, 5565.0, 5322.0, 5583.0, 5295.0, 5372.0, 5426.0, 5541.0, 5364.0 (number of hits: 8)
3	5510	9	1	333	1	5407.0, 5554.0, 5705.0, 5282.0, 5365.0, 5541.0, 5420.0, 5555.0, 5652.0, 5477.0, 5293.0, 5682.0, 5710.0, 5720.0, 5642.0, 5377.0, 5532.0, 5279.0, 5351.0, 5427.0, 5563.0, 5423.0, 5484.0, 5428.0, 5283.0, 5646.0, 5354.0, 5350.0, 5513.0, 5556.0, 5547.0, 5416.0, 5689.0, 5290.0, 5516.0, 5508.0, 5284.0, 5392.0, 5386.0, 5576.0, 5604.0, 5291.0, 5382.0, 5266.0, 5483.0, 5654.0, 5687.0, 5396.0, 5470.0, 5693.0, 5709.0, 5515.0, 5612.0, 5599.0, 5595.0, 5711.0, 5417.0, 5437.0, 5633.0, 5536.0,

						5300.0, 5723.0, 5460.0, 5495.0, 5334.0, 5418.0, 5661.0, 5636.0, 5426.0, 5439.0, 5609.0, 5435.0, 5277.0, 5537.0, 5546.0, 5261.0, 5399.0, 5600.0, 5303.0, 5319.0, 5634.0, 5507.0, 5315.0, 5414.0, 5255.0, 5309.0, 5520.0, 5503.0, 5394.0, 5613.0, 5355.0, 5644.0, 5333.0, 5368.0, 5492.0, 5258.0, 5639.0, 5478.0, 5511.0, 5329.0 (number of hits: 6)
4	5510	9	1	333	1	5718.0, 5507.0, 5336.0, 5640.0, 5453.0, 5549.0, 5344.0, 5437.0, 5677.0, 5271.0, 5328.0, 5653.0, 5436.0, 5434.0, 5283.0, 5596.0, 5481.0, 5340.0, 5589.0, 5648.0, 5477.0, 5397.0, 5391.0, 5605.0, 5524.0, 5664.0, 5257.0, 5261.0, 5699.0, 5371.0, 5496.0, 5416.0, 5520.0, 5609.0, 5501.0, 5657.0, 5354.0, 5461.0, 5426.0, 5708.0, 5575.0, 5450.0, 5497.0, 5593.0, 5290.0, 5486.0, 5508.0, 5278.0, 5533.0, 5570.0, 5470.0, 5667.0, 5429.0, 5312.0, 5293.0, 5706.0, 5555.0, 5301.0, 5538.0, 5624.0, 5469.0, 5639.0, 5618.0, 5651.0, 5289.0, 5262.0, 5331.0, 5504.0, 5363.0, 5372.0, 5495.0, 5274.0, 5597.0, 5705.0, 5475.0, 5709.0, 5571.0, 5518.0, 5598.0, 5514.0, 5712.0, 5408.0, 5502.0, 5625.0, 5386.0, 5556.0, 5644.0, 5480.0, 5530.0, 5517.0, 5380.0, 5337.0, 5719.0, 5661.0, 5305.0, 5390.0, 5628.0, 5516.0, 5284.0, 5259.0 (number of hits: 6)
5	5510	9	1	333	1	5455.0, 5383.0, 5415.0, 5468.0, 5275.0, 5663.0, 5336.0, 5304.0, 5307.0, 5568.0, 5658.0, 5267.0, 5317.0, 5423.0, 5518.0, 5613.0, 5692.0, 5514.0, 5525.0, 5702.0, 5409.0, 5333.0, 5707.0, 5635.0, 5385.0, 5682.0, 5561.0, 5323.0, 5508.0, 5709.0, 5298.0, 5562.0, 5694.0, 5639.0, 5718.0, 5723.0, 5309.0, 5569.0, 5271.0, 5615.0, 5449.0, 5366.0, 5397.0, 5363.0, 5427.0, 5511.0, 5711.0, 5512.0, 5264.0, 5355.0, 5664.0, 5311.0, 5365.0, 5665.0, 5424.0, 5388.0, 5280.0, 5520.0, 5687.0, 5516.0, 5274.0, 5659.0, 5263.0, 5498.0, 5429.0, 5371.0, 5579.0, 5481.0, 5377.0, 5524.0, 5444.0, 5262.0, 5624.0, 5530.0, 5330.0, 5703.0, 5549.0, 5354.0, 5713.0, 5519.0, 5572.0, 5302.0, 5483.0, 5690.0, 5320.0, 5339.0, 5640.0, 5708.0, 5352.0, 5401.0, 5362.0, 5293.0, 5288.0, 5513.0, 5693.0, 5493.0, 5515.0, 5567.0, 5256.0, 5358.0 (number of hits: 8)
6	5510	9	1	333	1	5571.0, 5681.0, 5254.0, 5666.0, 5408.0, 5616.0, 5366.0, 5609.0, 5525.0, 5407.0, 5632.0, 5356.0, 5434.0, 5493.0, 5600.0, 5274.0, 5587.0, 5591.0, 5392.0, 5677.0, 5378.0, 5403.0, 5390.0, 5650.0, 5526.0, 5270.0, 5533.0, 5699.0, 5583.0, 5691.0, 5707.0, 5262.0, 5306.0, 5646.0, 5405.0, 5652.0, 5294.0, 5549.0, 5397.0, 5352.0, 5437.0, 5381.0, 5607.0, 5599.0, 5369.0,

						5467.0, 5554.0, 5649.0, 5340.0, 5299.0, 5510.0, 5560.0, 5280.0, 5282.0, 5586.0, 5284.0, 5499.0, 5695.0, 5562.0, 5664.0, 5273.0, 5393.0, 5361.0, 5705.0, 5601.0, 5658.0, 5638.0, 5544.0, 5513.0, 5717.0, 5668.0, 5581.0, 5518.0, 5631.0, 5552.0, 5709.0, 5298.0, 5636.0, 5395.0, 5605.0, 5498.0, 5585.0, 5321.0, 5669.0, 5341.0, 5448.0, 5391.0, 5458.0, 5463.0, 5404.0, 5501.0, 5325.0, 5269.0, 5682.0, 5492.0, 5322.0, 5507.0, 5380.0, 5505.0, 5311.0 (number of hits: 5)
7	5510	9	1	333	1	5608.0, 5695.0, 5525.0, 5297.0, 5270.0, 5429.0, 5539.0, 5466.0, 5549.0, 5381.0, 5298.0, 5661.0, 5557.0, 5579.0, 5577.0, 5631.0, 5565.0, 5648.0, 5601.0, 5460.0, 5432.0, 5612.0, 5534.0, 5553.0, 5655.0, 5397.0, 5621.0, 5400.0, 5461.0, 5480.0, 5365.0, 5509.0, 5616.0, 5537.0, 5430.0, 5568.0, 5342.0, 5360.0, 5481.0, 5540.0, 5716.0, 5434.0, 5323.0, 5522.0, 5457.0, 5592.0, 5311.0, 5571.0, 5448.0, 5623.0, 5278.0, 5643.0, 5615.0, 5393.0, 5673.0, 5674.0, 5610.0, 5472.0, 5712.0, 5505.0, 5348.0, 5614.0, 5590.0, 5569.0, 5350.0, 5714.0, 5436.0, 5559.0, 5520.0, 5680.0, 5330.0, 5407.0, 5399.0, 5315.0, 5517.0, 5698.0, 5356.0, 5556.0, 5604.0, 5657.0, 5257.0, 5355.0, 5392.0, 5662.0, 5437.0, 5364.0, 5683.0, 5638.0, 5593.0, 5491.0, 5482.0, 5513.0, 5388.0, 5331.0, 5363.0, 5699.0, 5684.0, 5371.0, 5310.0, 5276.0 (number of hits: 4)
8	5510	9	1	333	1	5709.0, 5255.0, 5317.0, 5624.0, 5515.0, 5706.0, 5542.0, 5642.0, 5307.0, 5410.0, 5594.0, 5451.0, 5321.0, 5608.0, 5509.0, 5577.0, 5673.0, 5325.0, 5627.0, 5628.0, 5633.0, 5311.0, 5619.0, 5622.0, 5710.0, 5718.0, 5291.0, 5544.0, 5521.0, 5326.0, 5316.0, 5314.0, 5258.0, 5703.0, 5643.0, 5657.0, 5527.0, 5454.0, 5617.0, 5383.0, 5648.0, 5354.0, 5715.0, 5382.0, 5609.0, 5332.0, 5260.0, 5669.0, 5322.0, 5352.0, 5564.0, 5506.0, 5300.0, 5422.0, 5348.0, 5592.0, 5252.0, 5264.0, 5337.0, 5693.0, 5413.0, 5663.0, 5342.0, 5525.0, 5455.0, 5418.0, 5477.0, 5517.0, 5488.0, 5379.0, 5302.0, 5366.0, 5687.0, 5602.0, 5600.0, 5656.0, 5647.0, 5462.0, 5503.0, 5294.0, 5277.0, 5492.0, 5319.0, 5429.0, 5399.0, 5545.0, 5621.0, 5660.0, 5420.0, 5664.0, 5670.0, 5681.0, 5347.0, 5598.0, 5442.0, 5714.0, 5479.0, 5712.0, 5716.0, 5546.0 (number of hits: 7)
9	5510	9	1	333	1	5607.0, 5586.0, 5688.0, 5450.0, 5674.0, 5322.0, 5476.0, 5512.0, 5345.0, 5260.0, 5717.0, 5355.0, 5468.0, 5635.0, 5436.0, 5604.0, 5346.0, 5637.0, 5483.0, 5546.0, 5261.0, 5478.0, 5384.0, 5268.0, 5414.0, 5527.0, 5631.0, 5475.0, 5668.0, 5620.0,

						5287.0, 5513.0, 5524.0, 5424.0, 5254.0, 5413.0, 5328.0, 5711.0, 5379.0, 5661.0, 5280.0, 5452.0, 5545.0, 5538.0, 5567.0, 5381.0, 5368.0, 5481.0, 5427.0, 5375.0, 5408.0, 5356.0, 5395.0, 5657.0, 5702.0, 5603.0, 5671.0, 5474.0, 5359.0, 5594.0, 5339.0, 5648.0, 5439.0, 5682.0, 5306.0, 5294.0, 5419.0, 5707.0, 5720.0, 5342.0, 5675.0, 5358.0, 5350.0, 5706.0, 5634.0, 5704.0, 5608.0, 5312.0, 5611.0, 5709.0, 5557.0, 5609.0, 5290.0, 5693.0, 5367.0, 5691.0, 5670.0, 5569.0, 5719.0, 5518.0, 5697.0, 5499.0, 5531.0, 5426.0, 5619.0, 5301.0, 5406.0, 5271.0, 5591.0, 5321.0 (number of hits: 6)
10	5510	9	1	333	1	5597.0, 5468.0, 5614.0, 5291.0, 5648.0, 5374.0, 5453.0, 5290.0, 5365.0, 5482.0, 5389.0, 5314.0, 5395.0, 5523.0, 5566.0, 5252.0, 5445.0, 5368.0, 5478.0, 5526.0, 5625.0, 5283.0, 5662.0, 5479.0, 5665.0, 5601.0, 5660.0, 5637.0, 5447.0, 5413.0, 5679.0, 5266.0, 5590.0, 5424.0, 5307.0, 5422.0, 5464.0, 5658.0, 5338.0, 5634.0, 5434.0, 5373.0, 5687.0, 5647.0, 5591.0, 5428.0, 5475.0, 5427.0, 5582.0, 5474.0, 5688.0, 5703.0, 5678.0, 5652.0, 5557.0, 5397.0, 5268.0, 5416.0, 5685.0, 5691.0, 5517.0, 5323.0, 5298.0, 5540.0, 5704.0, 5624.0, 5524.0, 5354.0, 5486.0, 5606.0, 5458.0, 5595.0, 5701.0, 5498.0, 5300.0, 5630.0, 5635.0, 5611.0, 5563.0, 5253.0, 5378.0, 5305.0, 5558.0, 5504.0, 5289.0, 5251.0, 5361.0, 5483.0, 5301.0, 5501.0, 5675.0, 5286.0, 5452.0, 5385.0, 5357.0, 5315.0, 5510.0, 5451.0, 5584.0, 5534.0 (number of hits: 10)
11	5510	9	1	333	1	5550.0, 5281.0, 5253.0, 5666.0, 5407.0, 5708.0, 5524.0, 5261.0, 5264.0, 5427.0, 5587.0, 5272.0, 5346.0, 5476.0, 5395.0, 5493.0, 5631.0, 5464.0, 5354.0, 5313.0, 5423.0, 5405.0, 5572.0, 5448.0, 5327.0, 5517.0, 5416.0, 5688.0, 5424.0, 5710.0, 5575.0, 5381.0, 5600.0, 5698.0, 5369.0, 5486.0, 5419.0, 5641.0, 5308.0, 5650.0, 5467.0, 5623.0, 5430.0, 5699.0, 5468.0, 5339.0, 5512.0, 5625.0, 5647.0, 5254.0, 5320.0, 5531.0, 5434.0, 5500.0, 5709.0, 5429.0, 5300.0, 5379.0, 5408.0, 5363.0, 5608.0, 5501.0, 5307.0, 5672.0, 5482.0, 5456.0, 5267.0, 5364.0, 5557.0, 5525.0, 5435.0, 5522.0, 5681.0, 5481.0, 5296.0, 5668.0, 5540.0, 5527.0, 5704.0, 5428.0, 5580.0, 5335.0, 5389.0, 5297.0, 5418.0, 5477.0, 5366.0, 5533.0, 5610.0, 5463.0, 5679.0, 5683.0, 5438.0, 5717.0, 5611.0, 5278.0, 5319.0, 5399.0, 5368.0, 5564.0 (number of hits: 6)
12	5510	9	1	333	1	5465.0, 5345.0, 5509.0, 5453.0, 5323.0, 5276.0, 5374.0, 5412.0, 5357.0, 5324.0, 5589.0, 5515.0, 5425.0, 5293.0, 5267.0,

						5639.0, 5271.0, 5587.0, 5666.0, 5680.0, 5672.0, 5384.0, 5283.0, 5528.0, 5399.0, 5347.0, 5352.0, 5649.0, 5506.0, 5618.0, 5657.0, 5514.0, 5718.0, 5455.0, 5292.0, 5468.0, 5458.0, 5635.0, 5704.0, 5318.0, 5583.0, 5562.0, 5676.0, 5703.0, 5349.0, 5517.0, 5440.0, 5495.0, 5420.0, 5322.0, 5544.0, 5285.0, 5410.0, 5459.0, 5492.0, 5627.0, 5642.0, 5300.0, 5290.0, 5270.0, 5376.0, 5375.0, 5600.0, 5278.0, 5262.0, 5719.0, 5362.0, 5266.0, 5601.0, 5326.0, 5585.0, 5607.0, 5333.0, 5400.0, 5643.0, 5620.0, 5466.0, 5373.0, 5566.0, 5250.0, 5435.0, 5525.0, 5394.0, 5685.0, 5575.0, 5638.0, 5368.0, 5411.0, 5315.0, 5603.0, 5388.0, 5427.0, 5678.0, 5640.0, 5432.0, 5621.0, 5570.0, 5263.0, 5269.0, 5350.0 (number of hits: 5)
13	5510	9	1	333	1	5441.0, 5502.0, 5480.0, 5609.0, 5338.0, 5275.0, 5698.0, 5674.0, 5562.0, 5624.0, 5448.0, 5376.0, 5500.0, 5458.0, 5355.0, 5309.0, 5428.0, 5655.0, 5399.0, 5692.0, 5697.0, 5569.0, 5426.0, 5315.0, 5686.0, 5589.0, 5705.0, 5437.0, 5618.0, 5325.0, 5445.0, 5601.0, 5627.0, 5694.0, 5268.0, 5600.0, 5347.0, 5597.0, 5568.0, 5594.0, 5366.0, 5580.0, 5301.0, 5622.0, 5381.0, 5382.0, 5586.0, 5506.0, 5252.0, 5387.0, 5672.0, 5723.0, 5474.0, 5590.0, 5346.0, 5538.0, 5518.0, 5353.0, 5669.0, 5357.0, 5264.0, 5717.0, 5393.0, 5297.0, 5276.0, 5710.0, 5557.0, 5621.0, 5539.0, 5287.0, 5260.0, 5423.0, 5567.0, 5479.0, 5703.0, 5682.0, 5680.0, 5689.0, 5642.0, 5675.0, 5691.0, 5701.0, 5447.0, 5466.0, 5271.0, 5537.0, 5563.0, 5696.0, 5603.0, 5564.0, 5634.0, 5435.0, 5509.0, 5551.0, 5352.0, 5449.0, 5608.0, 5401.0, 5469.0, 5584.0 (number of hits: 4)
14	5510	9	1	333	1	5566.0, 5281.0, 5653.0, 5630.0, 5509.0, 5398.0, 5519.0, 5612.0, 5704.0, 5432.0, 5317.0, 5392.0, 5450.0, 5469.0, 5620.0, 5297.0, 5660.0, 5642.0, 5550.0, 5709.0, 5672.0, 5338.0, 5312.0, 5579.0, 5529.0, 5655.0, 5446.0, 5718.0, 5503.0, 5639.0, 5559.0, 5355.0, 5671.0, 5588.0, 5539.0, 5665.0, 5495.0, 5501.0, 5710.0, 5362.0, 5372.0, 5318.0, 5567.0, 5267.0, 5650.0, 5284.0, 5569.0, 5716.0, 5251.0, 5417.0, 5301.0, 5613.0, 5431.0, 5643.0, 5563.0, 5358.0, 5333.0, 5329.0, 5454.0, 5494.0, 5723.0, 5575.0, 5496.0, 5293.0, 5396.0, 5605.0, 5556.0, 5715.0, 5455.0, 5456.0, 5591.0, 5255.0, 5323.0, 5593.0, 5367.0, 5636.0, 5684.0, 5722.0, 5634.0, 5470.0, 5683.0, 5386.0, 5669.0, 5408.0, 5692.0, 5651.0, 5572.0, 5460.0, 5383.0, 5659.0, 5512.0, 5342.0, 5380.0, 5416.0, 5514.0, 5264.0, 5266.0, 5490.0, 5453.0, 5555.0 (number of hits: 4)

15	5510	9	1	333	1	5655.0, 5427.0, 5553.0, 5355.0, 5384.0, 5294.0, 5458.0, 5658.0, 5538.0, 5564.0, 5329.0, 5620.0, 5325.0, 5613.0, 5633.0, 5472.0, 5708.0, 5569.0, 5516.0, 5466.0, 5571.0, 5326.0, 5586.0, 5550.0, 5258.0, 5391.0, 5273.0, 5606.0, 5635.0, 5378.0, 5336.0, 5448.0, 5434.0, 5694.0, 5382.0, 5525.0, 5695.0, 5667.0, 5507.0, 5321.0, 5304.0, 5623.0, 5587.0, 5453.0, 5504.0, 5601.0, 5444.0, 5556.0, 5597.0, 5616.0, 5558.0, 5669.0, 5561.0, 5410.0, 5652.0, 5482.0, 5485.0, 5429.0, 5644.0, 5309.0, 5431.0, 5677.0, 5563.0, 5487.0, 5622.0, 5539.0, 5512.0, 5692.0, 5407.0, 5416.0, 5345.0, 5478.0, 5681.0, 5617.0, 5454.0, 5265.0, 5423.0, 5688.0, 5365.0, 5422.0, 5578.0, 5697.0, 5356.0, 5696.0, 5290.0, 5343.0, 5540.0, 5600.0, 5634.0, 5490.0, 5672.0, 5650.0, 5501.0, 5673.0, 5305.0, 5649.0, 5308.0, 5691.0, 5715.0, 5643.0 (number of hits: 6)
16	5510	9	1	333	1	5483.0, 5251.0, 5435.0, 5272.0, 5385.0, 5593.0, 5361.0, 5637.0, 5316.0, 5431.0, 5680.0, 5479.0, 5434.0, 5447.0, 5494.0, 5501.0, 5533.0, 5671.0, 5527.0, 5514.0, 5701.0, 5374.0, 5500.0, 5526.0, 5714.0, 5694.0, 5417.0, 5638.0, 5600.0, 5551.0, 5636.0, 5329.0, 5460.0, 5288.0, 5287.0, 5328.0, 5356.0, 5532.0, 5523.0, 5624.0, 5487.0, 5709.0, 5682.0, 5342.0, 5482.0, 5664.0, 5619.0, 5412.0, 5550.0, 5298.0, 5569.0, 5325.0, 5717.0, 5381.0, 5643.0, 5512.0, 5702.0, 5290.0, 5525.0, 5706.0, 5432.0, 5343.0, 5408.0, 5413.0, 5300.0, 5586.0, 5705.0, 5337.0, 5403.0, 5520.0, 5723.0, 5613.0, 5286.0, 5667.0, 5255.0, 5543.0, 5302.0, 5712.0, 5696.0, 5653.0, 5548.0, 5438.0, 5451.0, 5423.0, 5576.0, 5700.0, 5627.0, 5668.0, 5508.0, 5265.0, 5295.0, 5610.0, 5474.0, 5308.0, 5536.0, 5595.0, 5707.0, 5581.0, 5301.0, 5703.0 (number of hits: 10)
17	5510	9	1	333	1	5485.0, 5269.0, 5498.0, 5334.0, 5363.0, 5496.0, 5500.0, 5597.0, 5573.0, 5657.0, 5550.0, 5453.0, 5542.0, 5254.0, 5333.0, 5337.0, 5479.0, 5503.0, 5369.0, 5664.0, 5261.0, 5685.0, 5590.0, 5513.0, 5282.0, 5556.0, 5647.0, 5601.0, 5603.0, 5644.0, 5522.0, 5602.0, 5622.0, 5458.0, 5439.0, 5396.0, 5470.0, 5569.0, 5563.0, 5325.0, 5619.0, 5461.0, 5721.0, 5361.0, 5356.0, 5443.0, 5514.0, 5492.0, 5599.0, 5692.0, 5368.0, 5604.0, 5643.0, 5499.0, 5610.0, 5387.0, 5546.0, 5432.0, 5629.0, 5510.0, 5450.0, 5446.0, 5433.0, 5399.0, 5382.0, 5672.0, 5255.0, 5656.0, 5661.0, 5627.0, 5684.0, 5574.0, 5468.0, 5518.0, 5457.0, 5640.0, 5651.0, 5287.0, 5720.0, 5263.0, 5417.0, 5308.0, 5256.0, 5502.0, 5326.0, 5477.0, 5528.0, 5336.0, 5519.0, 5553.0,

						5552.0, 5380.0, 5408.0, 5274.0, 5705.0, 5617.0, 5591.0, 5320.0, 5379.0, 5535.0 (number of hits: 2)
18	5510	9	1	333	1	5706.0, 5687.0, 5415.0, 5594.0, 5318.0, 5722.0, 5291.0, 5705.0, 5473.0, 5374.0, 5704.0, 5418.0, 5467.0, 5352.0, 5416.0, 5310.0, 5626.0, 5336.0, 5502.0, 5272.0, 5340.0, 5265.0, 5292.0, 5554.0, 5675.0, 5271.0, 5364.0, 5674.0, 5466.0, 5652.0, 5550.0, 5534.0, 5568.0, 5658.0, 5537.0, 5333.0, 5309.0, 5402.0, 5431.0, 5327.0, 5488.0, 5459.0, 5598.0, 5306.0, 5423.0, 5360.0, 5649.0, 5361.0, 5584.0, 5465.0, 5558.0, 5437.0, 5380.0, 5645.0, 5367.0, 5403.0, 5604.0, 5489.0, 5376.0, 5373.0, 5513.0, 5527.0, 5345.0, 5349.0, 5721.0, 5274.0, 5712.0, 5462.0, 5297.0, 5443.0, 5460.0, 5449.0, 5547.0, 5506.0, 5474.0, 5600.0, 5284.0, 5556.0, 5338.0, 5463.0, 5422.0, 5701.0, 5277.0, 5573.0, 5625.0, 5662.0, 5627.0, 5471.0, 5575.0, 5577.0, 5664.0, 5640.0, 5685.0, 5629.0, 5400.0, 5608.0, 5286.0, 5468.0, 5323.0, 5618.0 (number of hits: 7)
19	5510	9	1	333	1	5609.0, 5701.0, 5679.0, 5549.0, 5390.0, 5594.0, 5315.0, 5561.0, 5495.0, 5663.0, 5352.0, 5347.0, 5628.0, 5697.0, 5595.0, 5581.0, 5704.0, 5280.0, 5546.0, 5598.0, 5323.0, 5433.0, 5370.0, 5716.0, 5451.0, 5287.0, 5291.0, 5375.0, 5313.0, 5405.0, 5412.0, 5295.0, 5615.0, 5462.0, 5531.0, 5331.0, 5282.0, 5569.0, 5345.0, 5302.0, 5681.0, 5322.0, 5393.0, 5336.0, 5310.0, 5689.0, 5490.0, 5702.0, 5620.0, 5492.0, 5690.0, 5325.0, 5720.0, 5355.0, 5721.0, 5528.0, 5677.0, 5582.0, 5407.0, 5567.0, 5374.0, 5541.0, 5550.0, 5340.0, 5299.0, 5682.0, 5685.0, 5285.0, 5559.0, 5592.0, 5420.0, 5413.0, 5277.0, 5429.0, 5273.0, 5521.0, 5647.0, 5341.0, 5649.0, 5289.0, 5503.0, 5467.0, 5314.0, 5454.0, 5278.0, 5368.0, 5673.0, 5687.0, 5284.0, 5665.0, 5671.0, 5658.0, 5396.0, 5501.0, 5484.0, 5600.0, 5438.0, 5339.0, 5488.0, 5698.0 (number of hits: 10)
20	5510	9	1	333	1	5435.0, 5422.0, 5693.0, 5495.0, 5576.0, 5318.0, 5491.0, 5595.0, 5479.0, 5704.0, 5690.0, 5387.0, 5594.0, 5610.0, 5477.0, 5282.0, 5340.0, 5402.0, 5332.0, 5499.0, 5590.0, 5302.0, 5327.0, 5618.0, 5625.0, 5270.0, 5428.0, 5598.0, 5494.0, 5377.0, 5672.0, 5442.0, 5391.0, 5408.0, 5676.0, 5275.0, 5334.0, 5713.0, 5321.0, 5574.0, 5531.0, 5390.0, 5564.0, 5263.0, 5658.0, 5451.0, 5343.0, 5376.0, 5345.0, 5701.0, 5333.0, 5351.0, 5709.0, 5319.0, 5337.0, 5718.0, 5418.0, 5663.0, 5486.0, 5414.0, 5600.0, 5501.0, 5362.0, 5632.0, 5459.0, 5612.0, 5529.0, 5575.0, 5303.0, 5307.0, 5622.0, 5592.0, 5259.0, 5295.0, 5441.0,

						5474.0, 5615.0, 5703.0, 5271.0, 5311.0, 5621.0, 5613.0, 5397.0, 5697.0, 5355.0, 5655.0, 5438.0, 5654.0, 5304.0, 5668.0, 5258.0, 5685.0, 5389.0, 5542.0, 5278.0, 5535.0, 5405.0, 5413.0, 5579.0, 5544.0 (number of hits: 6)
21	5510	9	1	333	1	5668.0, 5360.0, 5442.0, 5568.0, 5605.0, 5449.0, 5486.0, 5305.0, 5455.0, 5300.0, 5696.0, 5311.0, 5387.0, 5362.0, 5710.0, 5494.0, 5251.0, 5598.0, 5416.0, 5585.0, 5351.0, 5677.0, 5684.0, 5385.0, 5679.0, 5619.0, 5298.0, 5252.0, 5547.0, 5713.0, 5563.0, 5695.0, 5254.0, 5428.0, 5378.0, 5347.0, 5363.0, 5514.0, 5424.0, 5258.0, 5407.0, 5552.0, 5266.0, 5374.0, 5655.0, 5435.0, 5497.0, 5422.0, 5344.0, 5500.0, 5439.0, 5377.0, 5631.0, 5301.0, 5275.0, 5520.0, 5478.0, 5602.0, 5606.0, 5484.0, 5525.0, 5646.0, 5648.0, 5444.0, 5270.0, 5680.0, 5639.0, 5408.0, 5452.0, 5304.0, 5440.0, 5412.0, 5503.0, 5349.0, 5273.0, 5337.0, 5633.0, 5644.0, 5451.0, 5613.0, 5675.0, 5481.0, 5573.0, 5445.0, 5480.0, 5290.0, 5661.0, 5538.0, 5331.0, 5511.0, 5437.0, 5418.0, 5578.0, 5342.0, 5688.0, 5281.0, 5700.0, 5366.0, 5394.0, 5299.0 (number of hits: 8)
22	5510	9	1	333	1	5483.0, 5412.0, 5390.0, 5660.0, 5499.0, 5408.0, 5263.0, 5697.0, 5644.0, 5382.0, 5296.0, 5438.0, 5256.0, 5553.0, 5520.0, 5262.0, 5694.0, 5686.0, 5549.0, 5632.0, 5332.0, 5323.0, 5595.0, 5490.0, 5348.0, 5326.0, 5684.0, 5500.0, 5610.0, 5640.0, 5275.0, 5324.0, 5282.0, 5271.0, 5365.0, 5603.0, 5509.0, 5611.0, 5287.0, 5381.0, 5426.0, 5378.0, 5627.0, 5706.0, 5487.0, 5662.0, 5621.0, 5472.0, 5663.0, 5596.0, 5539.0, 5307.0, 5619.0, 5347.0, 5589.0, 5466.0, 5376.0, 5457.0, 5675.0, 5359.0, 5599.0, 5569.0, 5344.0, 5593.0, 5654.0, 5606.0, 5260.0, 5513.0, 5502.0, 5304.0, 5314.0, 5291.0, 5439.0, 5333.0, 5383.0, 5538.0, 5316.0, 5370.0, 5366.0, 5544.0, 5453.0, 5664.0, 5455.0, 5317.0, 5295.0, 5462.0, 5484.0, 5267.0, 5310.0, 5681.0, 5581.0, 5710.0, 5440.0, 5526.0, 5680.0, 5494.0, 5649.0, 5363.0, 5586.0, 5716.0 (number of hits: 8)
23	5510	9	1	333	1	5498.0, 5582.0, 5698.0, 5530.0, 5533.0, 5694.0, 5722.0, 5334.0, 5351.0, 5692.0, 5531.0, 5499.0, 5563.0, 5391.0, 5613.0, 5424.0, 5597.0, 5489.0, 5269.0, 5608.0, 5392.0, 5430.0, 5354.0, 5322.0, 5702.0, 5444.0, 5588.0, 5282.0, 5616.0, 5362.0, 5587.0, 5443.0, 5301.0, 5501.0, 5474.0, 5307.0, 5631.0, 5467.0, 5394.0, 5686.0, 5633.0, 5261.0, 5545.0, 5624.0, 5285.0, 5664.0, 5715.0, 5718.0, 5455.0, 5367.0, 5645.0, 5404.0, 5505.0, 5384.0, 5630.0, 5353.0, 5481.0, 5466.0, 5304.0, 5452.0,

						5504.0, 5331.0, 5389.0, 5421.0, 5333.0, 5259.0, 5377.0, 5685.0, 5294.0, 5284.0, 5332.0, 5370.0, 5423.0, 5595.0, 5308.0, 5528.0, 5437.0, 5699.0, 5447.0, 5523.0, 5409.0, 5418.0, 5515.0, 5574.0, 5416.0, 5272.0, 5379.0, 5290.0, 5317.0, 5496.0, 5542.0, 5560.0, 5292.0, 5637.0, 5369.0, 5453.0, 5697.0, 5623.0, 5297.0, 5513.0 (number of hits: 9)
24	5510	9	1	333	1	5433.0, 5498.0, 5715.0, 5539.0, 5301.0, 5714.0, 5363.0, 5375.0, 5627.0, 5343.0, 5713.0, 5371.0, 5592.0, 5719.0, 5670.0, 5394.0, 5404.0, 5622.0, 5430.0, 5339.0, 5328.0, 5270.0, 5718.0, 5370.0, 5290.0, 5545.0, 5681.0, 5395.0, 5672.0, 5516.0, 5293.0, 5254.0, 5547.0, 5633.0, 5378.0, 5358.0, 5330.0, 5325.0, 5352.0, 5662.0, 5609.0, 5256.0, 5647.0, 5303.0, 5644.0, 5683.0, 5504.0, 5263.0, 5442.0, 5292.0, 5461.0, 5721.0, 5597.0, 5408.0, 5283.0, 5486.0, 5419.0, 5438.0, 5465.0, 5481.0, 5560.0, 5261.0, 5566.0, 5495.0, 5544.0, 5349.0, 5588.0, 5634.0, 5264.0, 5536.0, 5691.0, 5625.0, 5281.0, 5271.0, 5632.0, 5695.0, 5476.0, 5641.0, 5492.0, 5673.0, 5424.0, 5470.0, 5460.0, 5594.0, 5276.0, 5661.0, 5690.0, 5617.0, 5522.0, 5583.0, 5667.0, 5280.0, 5308.0, 5420.0, 5680.0, 5535.0, 5675.0, 5723.0, 5277.0, 5605.0 (number of hits: 6)
25	5510	9	1	333	1	5559.0, 5468.0, 5414.0, 5310.0, 5705.0, 5397.0, 5367.0, 5575.0, 5640.0, 5333.0, 5691.0, 5461.0, 5309.0, 5274.0, 5343.0, 5613.0, 5437.0, 5667.0, 5457.0, 5534.0, 5329.0, 5626.0, 5386.0, 5635.0, 5674.0, 5351.0, 5562.0, 5423.0, 5697.0, 5418.0, 5474.0, 5472.0, 5692.0, 5608.0, 5538.0, 5639.0, 5427.0, 5638.0, 5277.0, 5479.0, 5708.0, 5395.0, 5676.0, 5496.0, 5553.0, 5401.0, 5634.0, 5589.0, 5471.0, 5636.0, 5311.0, 5410.0, 5630.0, 5258.0, 5352.0, 5665.0, 5256.0, 5580.0, 5262.0, 5536.0, 5416.0, 5669.0, 5430.0, 5460.0, 5564.0, 5529.0, 5586.0, 5663.0, 5650.0, 5271.0, 5495.0, 5609.0, 5462.0, 5524.0, 5432.0, 5607.0, 5593.0, 5560.0, 5502.0, 5499.0, 5618.0, 5590.0, 5464.0, 5493.0, 5556.0, 5699.0, 5363.0, 5615.0, 5706.0, 5465.0, 5700.0, 5375.0, 5434.0, 5687.0, 5444.0, 5326.0, 5633.0, 5625.0, 5254.0, 5337.0 (number of hits: 3)
26	5510	9	1	333	1	5478.0, 5364.0, 5257.0, 5438.0, 5467.0, 5546.0, 5278.0, 5435.0, 5629.0, 5375.0, 5621.0, 5667.0, 5695.0, 5436.0, 5511.0, 5641.0, 5389.0, 5648.0, 5336.0, 5462.0, 5587.0, 5585.0, 5710.0, 5287.0, 5643.0, 5452.0, 5541.0, 5422.0, 5535.0, 5664.0, 5570.0, 5322.0, 5691.0, 5300.0, 5402.0, 5474.0, 5250.0, 5519.0, 5606.0, 5340.0, 5277.0, 5588.0, 5517.0, 5622.0, 5313.0,

						5567.0, 5370.0, 5320.0, 5362.0, 5289.0, 5297.0, 5451.0, 5536.0, 5351.0, 5324.0, 5392.0, 5316.0, 5366.0, 5547.0, 5677.0, 5575.0, 5284.0, 5382.0, 5668.0, 5707.0, 5611.0, 5407.0, 5560.0, 5317.0, 5654.0, 5544.0, 5678.0, 5593.0, 5358.0, 5279.0, 5693.0, 5308.0, 5562.0, 5265.0, 5715.0, 5504.0, 5662.0, 5349.0, 5523.0, 5542.0, 5273.0, 5372.0, 5498.0, 5564.0, 5661.0, 5268.0, 5489.0, 5309.0, 5553.0, 5602.0, 5449.0, 5360.0, 5433.0, 5618.0, 5418.0 (number of hits: 7)
27	5510	9	1	333	1	5303.0, 5634.0, 5292.0, 5346.0, 5654.0, 5698.0, 5456.0, 5707.0, 5555.0, 5717.0, 5447.0, 5291.0, 5558.0, 5400.0, 5552.0, 5538.0, 5670.0, 5275.0, 5414.0, 5644.0, 5627.0, 5490.0, 5428.0, 5352.0, 5478.0, 5306.0, 5655.0, 5335.0, 5487.0, 5378.0, 5588.0, 5593.0, 5539.0, 5568.0, 5340.0, 5270.0, 5407.0, 5719.0, 5528.0, 5676.0, 5261.0, 5486.0, 5272.0, 5324.0, 5454.0, 5305.0, 5425.0, 5577.0, 5567.0, 5347.0, 5395.0, 5666.0, 5560.0, 5596.0, 5457.0, 5341.0, 5406.0, 5296.0, 5493.0, 5583.0, 5614.0, 5373.0, 5359.0, 5667.0, 5658.0, 5497.0, 5256.0, 5398.0, 5722.0, 5380.0, 5362.0, 5498.0, 5382.0, 5701.0, 5652.0, 5304.0, 5477.0, 5705.0, 5708.0, 5293.0, 5668.0, 5582.0, 5367.0, 5606.0, 5276.0, 5295.0, 5636.0, 5716.0, 5333.0, 5561.0, 5266.0, 5300.0, 5536.0, 5301.0, 5557.0, 5591.0, 5484.0, 5564.0, 5595.0, 5368.0 (number of hits: 11)
28	5510	9	1	333	1	5678.0, 5715.0, 5306.0, 5381.0, 5422.0, 5655.0, 5285.0, 5588.0, 5448.0, 5375.0, 5644.0, 5378.0, 5307.0, 5452.0, 5546.0, 5372.0, 5345.0, 5284.0, 5526.0, 5486.0, 5338.0, 5432.0, 5447.0, 5436.0, 5543.0, 5637.0, 5529.0, 5379.0, 5476.0, 5639.0, 5440.0, 5315.0, 5647.0, 5341.0, 5293.0, 5446.0, 5454.0, 5630.0, 5520.0, 5340.0, 5297.0, 5443.0, 5423.0, 5583.0, 5577.0, 5277.0, 5636.0, 5708.0, 5407.0, 5382.0, 5713.0, 5535.0, 5321.0, 5551.0, 5574.0, 5415.0, 5642.0, 5603.0, 5531.0, 5308.0, 5672.0, 5356.0, 5616.0, 5689.0, 5552.0, 5589.0, 5679.0, 5316.0, 5555.0, 5586.0, 5556.0, 5561.0, 5402.0, 5557.0, 5428.0, 5545.0, 5302.0, 5600.0, 5272.0, 5462.0, 5571.0, 5386.0, 5646.0, 5406.0, 5395.0, 5652.0, 5282.0, 5711.0, 5720.0, 5263.0, 5598.0, 5707.0, 5612.0, 5280.0, 5479.0, 5563.0, 5657.0, 5559.0, 5660.0, 5468.0 (number of hits: 7)
29	5510	9	1	333	1	5424.0, 5310.0, 5472.0, 5259.0, 5575.0, 5562.0, 5481.0, 5696.0, 5702.0, 5462.0, 5589.0, 5723.0, 5447.0, 5577.0, 5722.0, 5423.0, 5664.0, 5274.0, 5466.0, 5454.0, 5687.0, 5284.0, 5640.0, 5494.0, 5442.0, 5581.0, 5491.0, 5252.0, 5530.0, 5489.0,

						5294.0, 5514.0, 5385.0, 5332.0, 5470.0, 5436.0, 5320.0, 5422.0, 5331.0, 5635.0, 5402.0, 5510.0, 5623.0, 5251.0, 5435.0, 5644.0, 5329.0, 5659.0, 5453.0, 5394.0, 5303.0, 5507.0, 5464.0, 5574.0, 5458.0, 5611.0, 5295.0, 5345.0, 5338.0, 5699.0, 5625.0, 5366.0, 5706.0, 5446.0, 5639.0, 5715.0, 5608.0, 5430.0, 5570.0, 5550.0, 5697.0, 5403.0, 5408.0, 5711.0, 5414.0, 5405.0, 5253.0, 5617.0, 5670.0, 5399.0, 5465.0, 5654.0, 5523.0, 5539.0, 5529.0, 5330.0, 5319.0, 5449.0, 5269.0, 5502.0, 5448.0, 5311.0, 5519.0, 5323.0, 5263.0, 5384.0, 5273.0, 5433.0, 5359.0, 5688.0 (number of hits: 5)
30	5510	9	1	333	1	5472.0, 5596.0, 5461.0, 5346.0, 5466.0, 5356.0, 5601.0, 5518.0, 5331.0, 5681.0, 5646.0, 5408.0, 5628.0, 5651.0, 5476.0, 5593.0, 5590.0, 5503.0, 5462.0, 5535.0, 5321.0, 5689.0, 5627.0, 5513.0, 5401.0, 5498.0, 5398.0, 5460.0, 5684.0, 5376.0, 5624.0, 5391.0, 5281.0, 5422.0, 5492.0, 5431.0, 5475.0, 5310.0, 5607.0, 5415.0, 5615.0, 5421.0, 5690.0, 5643.0, 5457.0, 5450.0, 5445.0, 5464.0, 5495.0, 5524.0, 5349.0, 5708.0, 5414.0, 5256.0, 5545.0, 5267.0, 5320.0, 5474.0, 5568.0, 5581.0, 5479.0, 5387.0, 5434.0, 5525.0, 5502.0, 5661.0, 5305.0, 5269.0, 5642.0, 5658.0, 5378.0, 5674.0, 5336.0, 5610.0, 5451.0, 5701.0, 5572.0, 5574.0, 5594.0, 5337.0, 5381.0, 5650.0, 5316.0, 5553.0, 5722.0, 5521.0, 5571.0, 5698.0, 5392.0, 5506.0, 5330.0, 5465.0, 5486.0, 5515.0, 5519.0, 5444.0, 5634.0, 5580.0, 5383.0, 5260.0 (number of hits: 2)

5290 MHz, 80 MHz Bandwidth

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1	30	100 %	60%	Pass
Type 2	30	93.3 %	60%	Pass
Type 3	30	100 %	60%	Pass
Type 4	30	100 %	60%	Pass
Aggregate (Type1 to 4)	120	96.65 %	80%	Pass
Type 5	30	93.3 %	80%	Pass
Type 6	30	100 %	70%	Pass

Please refer to the following statistical tables:

Table-1 Radar Type 1 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5290	18	1	1428	1
2	5290	18	1	1428	1
3	5290	18	1	1428	1
4	5290	18	1	1428	1
5	5290	18	1	1428	1
6	5290	18	1	1428	1
7	5290	18	1	1428	1
8	5290	18	1	1428	1
9	5290	18	1	1428	1
10	5290	18	1	1428	1
11	5290	18	1	1428	1
12	5290	18	1	1428	1
13	5290	18	1	1428	1
14	5290	18	1	1428	1
15	5290	18	1	1428	1
16	5290	18	1	1428	1
17	5290	18	1	1428	1
18	5290	18	1	1428	1
19	5290	18	1	1428	1
20	5290	18	1	1428	1
21	5290	18	1	1428	1
22	5290	18	1	1428	1
23	5290	18	1	1428	1
24	5290	18	1	1428	1
25	5290	18	1	1428	1
26	5290	18	1	1428	1
27	5290	18	1	1428	1
28	5290	18	1	1428	1
29	5290	18	1	1428	1
30	5290	18	1	1428	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	24	3	197	1
2	5290	27	4.8	214	1
3	5290	29	3.6	186	1
4	5290	28	2.7	219	1
5	5290	25	2.4	224	0
6	5290	25	3.7	184	1
7	5290	24	3.5	171	1
8	5290	28	2.1	214	1
9	5290	29	1.2	210	1
10	5290	23	5	210	1
11	5290	25	4.4	213	1
12	5290	24	3.9	150	0
13	5290	29	3.8	219	0
14	5290	24	1.2	196	1
15	5290	24	3.8	201	0
16	5290	28	1.4	177	1
17	5290	28	2.1	188	1
18	5290	26	3.1	192	1
19	5290	23	4.3	202	1
20	5290	23	3.5	222	1
21	5290	28	3	198	1
22	5290	24	2.6	156	0
23	5290	24	3.3	220	1
24	5290	26	2	180	1
25	5290	29	2.2	222	1
26	5290	24	2.4	203	1
27	5290	25	1.9	191	1
28	5290	29	4.6	225	1
29	5290	26	4.1	202	1
30	5290	24	2.7	208	0
Detection Percentage: 80% (>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	7.7	475	1
2	5290	16	7.4	343	1
3	5290	16	6.5	235	1
4	5290	17	7.9	319	1
5	5290	18	9.5	490	1
6	5290	18	6.6	371	1
7	5290	17	8.2	302	1
8	5290	17	8.5	277	1
9	5290	17	6.3	338	1
10	5290	18	6.9	212	1
11	5290	17	7.5	402	1
12	5290	16	9.3	437	1
13	5290	16	7.2	233	1
14	5290	16	8	423	1
15	5290	17	6.6	237	1
16	5290	17	8.2	372	1
17	5290	17	6	234	1
18	5290	18	8.2	267	1
19	5290	16	7.5	269	1
20	5290	17	6.7	234	1
21	5290	17	6.8	371	1
22	5290	17	7	414	1
23	5290	16	6.4	261	1
24	5290	18	6	214	1
25	5290	16	6.9	329	1
26	5290	18	9.9	219	1
27	5290	16	7.3	217	1
28	5290	18	9.8	360	1
29	5290	17	9.5	350	1
30	5290	16	9.4	224	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	5290	15	11.2	468	1
2	5290	13	12.8	220	1
3	5290	16	12	342	1
4	5290	12	17.1	366	1
5	5290	16	15.9	218	1
6	5290	16	15	428	1
7	5290	12	12.1	486	1
8	5290	12	18.7	479	1
9	5290	16	15.9	349	1
10	5290	16	18.1	477	1
11	5290	13	18.3	486	1
12	5290	14	19.2	445	1
13	5290	15	14.2	369	1
14	5290	15	19	200	1
15	5290	15	12	215	1
16	5290	16	19.6	297	1
17	5290	16	14.5	273	1
18	5290	13	12.5	443	1
19	5290	16	19.9	451	1
20	5290	13	19.5	410	1
21	5290	15	17.4	380	1
22	5290	16	18	330	1
23	5290	13	14.3	214	1
24	5290	14	13.4	492	1
25	5290	13	18	411	1
26	5290	16	15.2	294	1
27	5290	13	13.7	352	1
28	5290	13	17.2	308	1
29	5290	15	14.2	301	1
30	5290	14	13.6	326	1
Detection Percentage: 100 % (>60%)					

Table-5 Radar Type 5 Statistical Performance

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	17	76.2			0.418913	
1	2	6	80.4	1634		0.753702	
2	1	17	96.9			1.2978	
3	1	6	94.9			2.095763	
4	2	6	75.6	1142		2.405072	
5	2	15	53	1345		3.58276	
6	1	20	85.4			4.102299	
7	3	13	93.5	1915	1633	4.699035	
8	3	9	79.8	1750	1925	5.019225	
9	2	7	91.4	1761		5.521866	
10	3	11	70.7	1314	1205	6.423172	1
11	2	11	56.2	1478		6.985797	
12	3	10	86.3	1303	1500	7.510251	
13	2	9	84.8	1662		8.267404	
14	2	12	94.1	1688		8.769256	
15	3	10	56.3	1840	1484	9.040493	
16	3	13	89.8	1392	1631	9.990655	
17	2	6	67	1495		10.352289	
18	2	12	91.8	1762		11.231513	
19	2	18	72.4	1598		11.545449	

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	74.2	1586		0.296632	1
1	2	12	56	1484		1.373492	
2	2	15	51.9	1270		2.553159	
3	1	9	97.1			3.386335	
4	1	13	94.3			3.84663	
5	2	8	94.9	1637		4.68658	
6	2	13	97.8	1591		5.817569	
7	2	7	62.8	1014		6.666804	
8	2	14	65.9	1024		7.312553	
9	1	15	53.5			8.031075	
10	3	7	91	1291	1947	8.69482	
11	2	8	67.2	1301		10.168678	
12	3	11	88.7	1553	1976	10.501528	
13	3	6	75.6	1350	1241	11.747485	

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	19	65.9			0.589086	1
1	2	14	67.1	1420		0.928534	
2	2	19	64.4	1473		1.547404	
3	2	12	78.2	1034		2.264829	
4	2	17	52	1693		2.40605	
5	2	7	80	1584		3.33224	
6	2	17	86.3	1073		3.695159	
7	3	16	78.5	1671	1584	4.378931	
8	2	10	58.6	1654		5.193254	
9	3	18	98.1	1812	1234	5.597681	
10	3	8	72.9	1805	1342	6.074553	
11	3	12	80.7	1212	1130	6.713052	
12	2	19	68.6	1625		7.712694	
13	3	17	94.3	1612	1179	8.384042	
14	1	15	59.5			8.904207	
15	2	16	70	1152		9.390326	
16	2	10	68	1251		10.113486	
17	1	12	54			10.468826	
18	2	12	60.5	1052		11.090208	
19	2	18	56.5	1179		11.655996	

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	13	83			0.595456	1
1	1	11	52.2			1.311868	
2	1	20	81.2			2.66957	
3	3	20	52.5	1566	1354	3.571164	
4	3	16	99.4	1449	1398	4.432596	
5	2	11	66.6	1851		5.642236	
6	3	13	83.3	1924	1968	6.631978	
7	2	16	53.3	1475		7.918066	
8	1	18	62.2			8.740897	
9	3	12	55.7	1616	1025	9.917851	
10	1	5	74.8			11.315631	

Bin5 Statistics 5

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	10	87.6			0.155552	1
1	2	9	88.6	1946		1.660256	
2	1	12	88.4			1.859274	
3	2	7	57.2	1063		2.910756	
4	2	14	93.9	1006		3.44466	
5	1	18	80.6			4.959896	
6	3	17	92.8	1563	1502	5.835117	
7	2	18	70.5	1507		6.649352	
8	3	11	84.6	1595	1190	7.658104	
9	1	14	82.4			8.359465	
10	2	14	87.6	1314		9.042842	
11	2	9	84	1721		9.772055	
12	2	14	88.2	1058		10.841177	
13	2	16	51.2	1948		11.496094	

Bin5 Statistics 6

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	10	81.3	1709		0.678328	
1	2	14	55.8	1850		1.575626	
2	1	12	76.1			2.008615	
3	2	10	51.1	1308		3.21857	
4	3	18	71	1370	1546	3.823479	
5	2	15	90.1	1565		4.908761	
6	2	7	62.9	1732		5.57812	1
7	2	6	54	1144		6.670922	
8	3	12	92	1721	1913	7.599394	
9	3	9	67.3	1656	1769	8.890041	
10	3	12	88	1730	1473	9.719675	
11	2	20	66	1107		10.578709	
12	2	8	79.6	1990		11.486504	

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	18	68.1	1874		0.7429	
1	2	18	51.7	1179		1.681037	
2	2	17	94.2	1391		2.645144	
3	2	12	55.1	1361		3.903145	
4	2	14	62.3	1097		4.239637	
5	2	5	60.5	1793		5.577032	
6	1	10	65.9			6.2615	1
7	2	7	72.6	1150		7.92458	
8	3	10	94.2	1830	1209	8.808782	
9	2	8	61.3	1103		9.866956	
10	2	11	85.4	1634		10.086563	
11	2	18	70.2	1886		11.798071	

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	10	91.5	1840	1435	0.200052	
1	2	16	63.5	1345		1.269159	
2	2	17	51.5	1361		2.002512	
3	1	10	67.9			2.876283	
4	1	19	54.5			3.371682	
5	2	12	89.7	1768		4.330277	
6	1	13	62.1			5.362175	
7	1	18	50.1			5.626856	1
8	2	14	56.7	1552		6.558438	
9	2	12	56.7	1951		7.760837	
10	2	19	78.9	1418		8.364684	
11	2	16	77.6	1171		8.999971	
12	2	15	86.9	1795		10.188812	
13	1	11	51.2			10.64957	
14	1	18	91.2			11.580691	

Bin5 Statistics 9

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	15	82.5	1432		0.189493	
1	1	8	90.4			2.563265	
2	2	15	60	1252		2.99961	
3	2	10	94	1727		4.291794	
4	2	17	93.3	1797		5.722554	1
5	2	13	95.4	1851		7.081046	
6	1	14	82.7			9.14222	
7	2	12	66.1	1841		10.013807	
8	3	13	51.7	1615	1891	11.112477	

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	16	72.3	1119		0.015334	1
1	1	7	73.1			2.103854	
2	1	16	68			2.793095	
3	2	10	61.9	1185		4.479133	
4	1	11	99.5			4.8308	
5	1	16	70.3			6.72149	
6	2	13	74.1	1037		7.922123	
7	2	14	87.3	1216		9.473421	
8	3	6	91.2	1292	1209	10.602699	
9	1	17	56.6			11.349256	

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	11	70.4	1210	1999	0.146272	1
1	1	13	94.6			0.974074	
2	1	19	81.7			1.784325	
3	2	10	89.8	1116		2.584506	
4	1	15	77.5			3.063993	
5	2	17	91.7	1355		3.461907	
6	3	9	70.3	1702	1029	4.002449	
7	2	13	84.7	1265		5.178131	
8	2	8	73.2	1618		5.804328	
9	2	16	98.2	1034		6.174431	
10	2	19	53.2	1234		7.143114	
11	1	11	71.4			7.810923	
12	3	12	56.9	1061	1609	8.605976	
13	2	12	89	1509		8.977488	
14	2	10	81.5	1365		9.735146	
15	2	15	87.8	1411		10.50546	
16	2	5	80.6	1732		11.173327	
17	2	7	76.3	1616		11.568085	

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	16	91.1			0.527092	1
1	1	8	63			0.958193	
2	3	9	94.1	1352	1713	2.458656	
3	2	7	64.4	1710		3.306524	
4	2	10	88.7	1797		3.697166	
5	1	17	74.7			4.530058	
6	1	10	94.3			5.53239	
7	1	20	68.4			6.258715	
8	3	16	75.9	1012	1833	7.552764	
9	2	16	70.1	1162		7.995053	
10	1	5	96.2			8.596632	
11	2	6	54.7	1685		10.115442	
12	2	10	65	1782		10.399835	
13	2	6	76.1	1047		11.204767	

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	6	66.8	1584		0.085352	1
1	2	6	84	1402		1.912512	
2	3	6	96.5	1622	1904	3.508102	
3	3	9	88.1	1807	1229	4.631751	
4	3	6	89.2	1046	1962	5.660064	
5	1	13	64.9			6.954212	
6	2	8	85.1	1287		7.539596	
7	2	16	68.2	1543		8.942151	
8	2	10	52.9	1672		9.750252	
9	2	16	78.7	1311		10.95425	

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	15	93	1712	1741	0.111328	
1	3	12	87.3	1737	1529	1.098904	
2	1	11	77.4			1.89804	
3	1	10	84.2			2.924968	
4	2	9	58.6	1323		3.495553	
5	2	10	66.8	1230		4.313152	
6	2	9	85.6	1641		5.187104	
7	1	6	70.1			5.857298	1
8	3	18	62.1	1761	1008	6.910741	
9	3	10	90.1	1680	1974	7.609978	
10	2	12	55.8	1993		8.477932	
11	2	18	80.7	1740		8.855057	
12	2	9	71.9	1565		9.805378	
13	2	16	94.2	1217		11.144002	
14	1	7	85.3			11.700187	

Bin5 Statistics 15

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	7	50.9	1659		0.137549	
1	2	20	54.2	1211		0.891957	
2	2	6	73.3	1365		1.365651	
3	1	8	83.7			2.638277	
4	2	18	65	1985		3.269734	
5	1	10	59.4			3.692115	
6	2	11	63.7	1887		4.130069	
7	2	8	84.4	1066		5.13206	
8	1	19	83			5.374293	
9	1	11	85.2			6.544732	1
10	2	6	63.5	1840		7.28856	
11	2	11	61.1	1791		7.513763	
12	1	10	96.2			8.42775	
13	1	5	87.1			8.874221	
14	2	11	69.1	1249		9.648535	
15	3	20	78.7	1794	1749	10.256117	
16	3	9	53.2	1021	1487	11.105365	
17	1	19	57.3			11.780248	

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	15	50.2	1792		0.721646	1
1	2	10	65.6	1292		1.774174	
2	2	13	90.1	1233		2.758567	
3	3	13	51	1382	1286	4.667888	
4	2	12	79.3	1177		5.773586	
5	3	15	79.3	1395	1410	6.36089	
6	2	15	73.7	1670		7.770537	
7	2	10	65.3	1794		9.008828	
8	2	18	66.1	1680		10.287743	
9	3	20	91.2	1542	1929	11.051385	

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	5	90.3	1473		0.558083	1
1	3	14	63.4	1168	1067	0.715315	
2	2	15	86.3	1256		2.004034	
3	2	13	84.5	1096		2.417792	
4	3	10	70.9	1923	1057	3.308661	
5	3	13	90	1802	1568	3.576702	
6	3	11	94.5	1891	1814	4.245146	
7	2	17	71.2	1917		5.449695	
8	2	13	67.4	1517		6.185817	
9	3	14	93.1	1250	1696	6.698902	
10	3	8	65.5	1433	1745	7.73493	
11	1	7	91.2			8.25735	
12	2	15	93.3	1445		9.049843	
13	2	15	64.9	1599		9.632751	
14	3	7	66.9	1453	1198	10.405822	
15	3	11	73.3	1914	1283	10.912418	
16	2	13	63.4	1622		11.791839	

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	13	92.7	1805	1267	0.7158	1
1	3	18	71.1	1465	1209	1.259935	
2	3	6	81.2	1643	1333	1.563054	
3	2	10	98.8	1696		2.670138	
4	3	15	78.9	1561	1338	3.305935	
5	2	19	97.6	1691		4.096888	
6	2	8	57.6	1871		4.501917	
7	1	13	65.8			5.956764	
8	2	13	99.6	1763		6.015423	
9	2	19	86.3	1440		7.397861	
10	2	14	93.5	1088		7.566626	
11	1	8	64.9			8.454488	
12	1	8	99.4			9.010396	
13	1	16	54.3			10.460501	
14	3	10	67.7	1586	1413	11.029642	
15	1	15	51.6			11.535259	

Bin5 Statistics 19

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	5	71.8	1952	1857	0.575306	1
1	3	7	58.9	1408	1799	1.227051	
2	2	15	60.7	1268		2.166105	
3	2	14	70.1	1361		3.379024	
4	3	11	56.6	1423	1698	4.561829	
5	1	7	90.7			5.584089	
6	2	10	54.7	1583		6.164723	
7	2	14	82.2	1688		7.472897	
8	2	11	68.4	1375		8.491378	
9	2	19	59.7	1788		9.078181	
10	1	13	67.2			10.974068	
11	2	19	57.7	1973		11.682818	

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	20	91.6			0.316669	1
1	2	12	99.4	1401		1.119146	
2	2	8	75.6	1686		2.123397	
3	3	11	83.6	1128	1360	2.805183	
4	1	17	59.1			3.739799	
5	2	19	79.2	1728		4.099413	
6	1	5	73.6			4.800617	
7	3	19	66.1	1119	1126	5.350034	
8	2	7	77.4	1392		6.281499	
9	2	10	96	1402		6.809502	
10	2	16	76.2	1663		7.860225	
11	3	8	57.9	1122	1042	8.317385	
12	3	12	99.7	1538	1690	9.195433	
13	3	6	84.8	1291	1634	10.12321	
14	3	10	74.2	1488	1822	10.692444	
15	1	10	98.9			11.795988	

Bin5 Statistics 21

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	7	74.1			0.038398	1
1	2	15	62	1152		1.083339	
2	1	7	94			2.217516	
3	2	16	50.1	1264		2.407528	
4	3	9	95.2	1534	1651	3.637038	
5	3	16	94.2	1891	1852	4.585089	
6	2	15	62.2	1983		5.419316	
7	1	6	71			6.039352	
8	2	8	92.3	1293		6.854568	
9	3	8	84.3	1374	1273	7.228393	
10	1	17	86.4			8.186862	
11	2	16	76.7	1833		8.939881	
12	2	7	50.5	1391		10.052524	
13	2	16	51.5	1257		10.798427	
14	1	17	95.7			11.650402	

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	9	98.4	1414		0.551597	1
1	3	18	91	1218	1912	0.821908	
2	3	14	52.7	1531	1503	1.347754	
3	1	14	84.8			2.32377	
4	2	14	79.8	1509		2.453813	
5	1	17	51.8			3.261649	
6	2	5	91.9	1651		3.837882	
7	2	19	83.3	1167		4.229658	
8	2	5	63.3	1007		5.253638	
9	2	18	58.1	1627		5.662869	
10	3	19	92.4	1651	1616	6.453161	
11	1	6	61.1			6.929251	
12	2	15	62.9	1541		7.270221	
13	1	15	81.4			8.134263	
14	3	10	98.2	1596	1159	8.468683	
15	3	16	53.1	1455	1424	9.366109	
16	1	7	64			9.688432	
17	2	13	88.8	1447		10.576318	
18	2	14	56.1	1973		11.108486	
19	3	17	99.5	1182	1164	11.580169	

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	8	64.6	1525		0.810468	1
1	2	14	53.6	1730		1.390704	
2	1	19	77.7			2.644169	
3	2	10	52.7	1087		4.031428	
4	3	5	56.2	1464	1622	5.933767	
5	1	12	74.6			6.115386	
6	3	13	83.2	1431	1381	7.31658	
7	2	12	55.8	1619		8.817715	
8	2	14	92.9	1669		10.207191	
9	2	9	88.2	1652		11.656939	

Bin5 Statistics 24

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	12	65.2	1645		0.656209	1
1	3	10	96	1940	1459	0.962706	
2	2	16	94.4	1950		2.196728	
3	3	17	85.1	1948	1590	2.386322	
4	1	14	97.9			3.361115	
5	2	18	87.3	1309		4.370743	
6	2	6	60.7	1472		4.729353	
7	3	7	91.8	1294	1244	5.703677	
8	1	8	54			6.004719	
9	2	11	88.3	1842		6.905191	
10	2	13	91.4	1268		7.510386	
11	1	9	54.6			8.373946	
12	3	18	74.3	1165	1624	9.113741	
13	1	8	62.4			10.22987	
14	1	18	55.8			11.052252	
15	1	18	51.7			11.44762	

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	18	51.9			0.459964	1
1	3	12	69.3	1674	1739	1.001189	
2	2	13	96.3	1556		1.596324	
3	3	20	74.4	1834	1705	2.648619	
4	2	6	62.6	1382		3.519639	
5	2	8	96.8	1332		3.583522	
6	1	14	65.2			4.2756	
7	3	12	52.3	1128	1692	5.569958	
8	3	6	88.6	1069	1312	5.679914	
9	2	19	62.6	1903		7.024504	
10	3	16	84	1349	1634	7.551141	
11	1	17	71.7			7.927108	
12	2	14	91.3	1797		8.713512	
13	3	19	73.1	1317	1814	9.837571	
14	2	13	86.4	1528		10.188973	
15	1	17	52			10.927894	
16	3	5	77.2	1459	1897	11.893932	

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	8	57.9			0.301368	1
1	3	6	90.5	1175	1985	1.444467	
2	2	16	82.9	1795		3.022383	
3	1	9	92.4			4.517097	
4	2	13	62.7	1647		5.80133	
5	2	17	95	1528		6.353202	
6	2	5	82.2	1998		7.81325	
7	3	14	81.3	1569	1183	9.041692	
8	3	5	58.6	1551	1531	10.119799	
9	2	19	94.8	1005		11.897771	

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	14	84.7	1992		0.041444	1
1	2	14	78.6	1653		0.985589	
2	1	11	89.7			2.210227	
3	2	7	89.3	1491		2.286701	
4	3	18	51.7	1306	1800	3.152126	
5	2	11	81.1	1172		4.390463	
6	3	7	74.2	1821	1310	4.9529	
7	2	16	78.3	1245		5.925808	
8	3	17	73.1	1644	1509	6.251019	
9	3	8	64.3	1875	1890	7.43566	
10	2	19	79	1865		8.118444	
11	2	19	57.6	1668		8.852369	
12	3	14	70.8	1950	1764	9.392729	
13	1	19	68.8			9.986318	
14	1	12	87.9			11.113206	
15	1	14	65.3			11.706732	

Bin5 Statistics 28

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	14	58.1	1812	1470	0.614027	0
1	1	11	54.9			1.40843	
2	2	12	80.7	1256		1.725328	
3	2	18	62.6	1104		2.34236	
4	2	17	63	1179		2.94174	
5	2	7	64.3	1454		4.215973	
6	2	13	52.5	1707		4.574104	
7	1	11	74.1			5.39853	
8	1	15	76			6.128245	
9	3	10	76.8	1022	1488	6.872948	
10	2	12	86.1	1307		7.351585	
11	2	16	95	1840		7.795758	
12	3	8	55.5	2000	1356	8.952944	
13	2	6	54.1	1460		9.622828	
14	3	7	94	2000	1153	10.466791	
15	1	19	59.3			11.161859	
16	1	6	96.5			11.557981	

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	52.3	1864		0.325356	0
1	2	6	61.3	1605		1.947466	
2	3	17	61.1	1699	1062	3.196993	
3	2	15	89.8	1759		3.747763	
4	2	17	58.4	1046		4.600569	
5	2	6	90	1636		5.972301	
6	2	19	55.6	1510		6.831992	
7	2	13	58.6	1515		8.666171	
8	2	17	62.4	1546		9.440177	
9	2	15	84.9	1032		9.839123	
10	3	15	66.1	1060	1982	11.601055	

Bin5 Statistics 30

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	15	78.6	1299	1926	0.452674	1
1	3	12	51.2	1791	1536	0.732052	
2	2	11	86.8	1863		1.611634	
3	2	17	89.2	1287		2.609544	
4	3	8	69.6	1929	1689	2.851386	
5	1	19	78.4			3.596501	
6	2	9	80.7	1074		4.000999	
7	2	9	53.8	1691		4.724364	
8	1	8	58.1			5.863141	
9	2	18	79.3	1595		6.173944	
10	3	19	68.7	1661	1825	7.086082	
11	2	15	96.3	1826		7.50264	
12	1	6	73.2			8.475373	
13	3	8	94.9	1719	1856	8.697727	
14	2	15	68.2	1004		9.446679	
15	2	7	90.5	1977		10.360141	
16	1	9	96			10.884666	
17	2	19	96.3	1687		11.399494	

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	5590.0, 5587.0, 5407.0, 5623.0, 5409.0, 5306.0, 5377.0, 5645.0, 5616.0, 5391.0, 5460.0, 5375.0, 5312.0, 5408.0, 5276.0, 5671.0, 5265.0, 5487.0, 5476.0, 5469.0, 5516.0, 5557.0, 5443.0, 5560.0, 5554.0, 5382.0, 5355.0, 5356.0, 5316.0, 5419.0, 5463.0, 5635.0, 5674.0, 5626.0, 5470.0, 5530.0, 5614.0, 5270.0, 5317.0, 5624.0, 5499.0, 5342.0, 5333.0, 5292.0, 5275.0, 5417.0, 5571.0, 5321.0, 5597.0, 5630.0, 5688.0, 5257.0, 5542.0, 5482.0, 5610.0, 5695.0, 5349.0, 5602.0, 5368.0, 5429.0, 5433.0, 5660.0, 5489.0, 5653.0, 5514.0, 5363.0, 5403.0, 5471.0, 5452.0, 5598.0, 5717.0, 5620.0, 5638.0, 5536.0, 5702.0, 5670.0, 5495.0, 5567.0, 5668.0, 5538.0, 5533.0, 5497.0, 5326.0, 5636.0, 5708.0, 5318.0, 5572.0, 5304.0, 5689.0, 5600.0, 5552.0, 5711.0, 5354.0, 5592.0, 5628.0, 5389.0, 5258.0, 5594.0, 5520.0, 5589.0 (number of hits: 4)
2	5290	9	1	333	1	5453.0, 5331.0, 5397.0, 5254.0, 5571.0, 5658.0, 5336.0, 5406.0, 5304.0, 5401.0, 5258.0, 5561.0, 5454.0, 5497.0, 5700.0, 5582.0, 5598.0, 5519.0, 5543.0, 5316.0, 5332.0, 5494.0, 5633.0, 5490.0, 5481.0, 5318.0, 5678.0, 5535.0, 5378.0, 5444.0, 5606.0, 5604.0, 5419.0, 5660.0, 5590.0, 5328.0, 5259.0, 5707.0, 5526.0, 5476.0, 5506.0, 5280.0, 5652.0, 5394.0, 5626.0, 5296.0, 5458.0, 5386.0, 5375.0, 5405.0, 5608.0, 5448.0, 5310.0, 5253.0, 5460.0, 5411.0, 5553.0, 5385.0, 5698.0, 5301.0, 5312.0, 5694.0, 5613.0, 5654.0, 5256.0, 5291.0, 5502.0, 5292.0, 5528.0, 5522.0, 5293.0, 5581.0, 5428.0, 5576.0, 5716.0, 5267.0, 5429.0, 5484.0, 5451.0, 5640.0, 5474.0, 5337.0, 5680.0, 5357.0, 5374.0, 5587.0, 5307.0, 5509.0, 5534.0, 5279.0, 5695.0, 5649.0, 5549.0, 5513.0, 5424.0, 5314.0, 5593.0, 5539.0, 5559.0, 5269.0 (number of hits: 10)
3	5290	9	1	333	1	5427.0, 5593.0, 5367.0, 5591.0, 5707.0, 5413.0, 5411.0, 5567.0, 5665.0, 5423.0, 5386.0, 5304.0, 5321.0, 5449.0, 5346.0, 5300.0, 5333.0, 5631.0, 5540.0, 5553.0, 5613.0, 5278.0, 5674.0, 5514.0, 5373.0, 5301.0, 5574.0, 5476.0, 5511.0, 5459.0, 5284.0, 5699.0, 5617.0, 5268.0, 5361.0, 5647.0, 5289.0, 5522.0, 5589.0, 5481.0, 5343.0, 5472.0, 5432.0, 5595.0, 5718.0, 5378.0, 5466.0, 5645.0, 5438.0, 5714.0, 5353.0, 5558.0, 5638.0, 5446.0, 5442.0, 5433.0, 5483.0, 5605.0, 5354.0, 5513.0,

						5550.0, 5302.0, 5309.0, 5482.0, 5265.0, 5339.0, 5632.0, 5360.0, 5549.0, 5515.0, 5653.0, 5495.0, 5529.0, 5618.0, 5536.0, 5509.0, 5283.0, 5480.0, 5623.0, 5328.0, 5489.0, 5701.0, 5587.0, 5347.0, 5542.0, 5642.0, 5288.0, 5668.0, 5269.0, 5607.0, 5418.0, 5643.0, 5299.0, 5499.0, 5651.0, 5644.0, 5627.0, 5406.0, 5560.0, 5590.0 (number of hits: 8)
4	5290	9	1	333	1	5327.0, 5309.0, 5393.0, 5618.0, 5478.0, 5282.0, 5255.0, 5679.0, 5421.0, 5335.0, 5383.0, 5399.0, 5510.0, 5357.0, 5333.0, 5615.0, 5296.0, 5392.0, 5520.0, 5435.0, 5703.0, 5685.0, 5642.0, 5398.0, 5498.0, 5515.0, 5332.0, 5625.0, 5630.0, 5626.0, 5350.0, 5622.0, 5542.0, 5491.0, 5684.0, 5710.0, 5476.0, 5598.0, 5375.0, 5698.0, 5557.0, 5645.0, 5415.0, 5500.0, 5514.0, 5281.0, 5558.0, 5451.0, 5600.0, 5420.0, 5718.0, 5488.0, 5266.0, 5447.0, 5665.0, 5409.0, 5454.0, 5590.0, 5627.0, 5548.0, 5290.0, 5387.0, 5678.0, 5310.0, 5450.0, 5349.0, 5687.0, 5381.0, 5280.0, 5480.0, 5599.0, 5545.0, 5537.0, 5345.0, 5680.0, 5604.0, 5586.0, 5714.0, 5575.0, 5426.0, 5271.0, 5603.0, 5694.0, 5390.0, 5295.0, 5643.0, 5610.0, 5593.0, 5273.0, 5484.0, 5507.0, 5585.0, 5400.0, 5495.0, 5719.0, 5697.0, 5444.0, 5674.0, 5410.0, 5312.0 (number of hits: 6)
5	5290	9	1	333	1	5695.0, 5649.0, 5613.0, 5595.0, 5574.0, 5283.0, 5301.0, 5685.0, 5423.0, 5377.0, 5627.0, 5316.0, 5489.0, 5271.0, 5412.0, 5287.0, 5460.0, 5700.0, 5711.0, 5590.0, 5445.0, 5275.0, 5364.0, 5320.0, 5521.0, 5281.0, 5305.0, 5517.0, 5334.0, 5690.0, 5253.0, 5450.0, 5426.0, 5413.0, 5448.0, 5457.0, 5398.0, 5380.0, 5476.0, 5699.0, 5621.0, 5549.0, 5588.0, 5604.0, 5453.0, 5332.0, 5405.0, 5487.0, 5279.0, 5534.0, 5444.0, 5636.0, 5252.0, 5374.0, 5498.0, 5617.0, 5304.0, 5593.0, 5544.0, 5495.0, 5421.0, 5356.0, 5379.0, 5361.0, 5586.0, 5573.0, 5623.0, 5580.0, 5258.0, 5532.0, 5360.0, 5592.0, 5274.0, 5579.0, 5669.0, 5541.0, 5265.0, 5353.0, 5389.0, 5266.0, 5276.0, 5378.0, 5652.0, 5556.0, 5366.0, 5661.0, 5609.0, 5425.0, 5308.0, 5547.0, 5467.0, 5501.0, 5257.0, 5404.0, 5479.0, 5701.0, 5644.0, 5646.0, 5469.0, 5536.0 (number of hits: 5)
6	5290	9	1	333	1	5719.0, 5308.0, 5438.0, 5583.0, 5536.0, 5280.0, 5590.0, 5410.0, 5256.0, 5443.0, 5529.0, 5591.0, 5525.0, 5386.0, 5574.0, 5595.0, 5653.0, 5487.0, 5268.0, 5582.0, 5371.0, 5625.0, 5690.0, 5319.0, 5328.0, 5476.0, 5485.0, 5702.0, 5419.0, 5399.0, 5481.0, 5622.0, 5553.0, 5494.0, 5504.0, 5282.0, 5717.0, 5588.0, 5462.0, 5712.0, 5661.0, 5519.0, 5571.0, 5466.0, 5645.0,

						5478.0, 5638.0, 5512.0, 5711.0, 5475.0, 5699.0, 5425.0, 5318.0, 5464.0, 5716.0, 5506.0, 5447.0, 5569.0, 5639.0, 5586.0, 5497.0, 5676.0, 5581.0, 5348.0, 5380.0, 5609.0, 5313.0, 5381.0, 5615.0, 5357.0, 5303.0, 5479.0, 5463.0, 5652.0, 5685.0, 5647.0, 5715.0, 5682.0, 5631.0, 5664.0, 5567.0, 5286.0, 5335.0, 5309.0, 5265.0, 5617.0, 5372.0, 5605.0, 5267.0, 5680.0, 5298.0, 5351.0, 5455.0, 5324.0, 5596.0, 5402.0, 5323.0, 5255.0, 5580.0, 5444.0 (number of hits: 6)
7	5290	9	1	333	1	5310.0, 5260.0, 5312.0, 5662.0, 5587.0, 5481.0, 5527.0, 5284.0, 5575.0, 5528.0, 5615.0, 5432.0, 5464.0, 5667.0, 5565.0, 5423.0, 5295.0, 5579.0, 5539.0, 5307.0, 5535.0, 5679.0, 5374.0, 5490.0, 5559.0, 5551.0, 5721.0, 5450.0, 5532.0, 5597.0, 5621.0, 5386.0, 5400.0, 5427.0, 5478.0, 5712.0, 5363.0, 5358.0, 5425.0, 5596.0, 5556.0, 5548.0, 5585.0, 5595.0, 5555.0, 5442.0, 5512.0, 5501.0, 5509.0, 5633.0, 5311.0, 5526.0, 5367.0, 5688.0, 5357.0, 5443.0, 5317.0, 5331.0, 5590.0, 5296.0, 5503.0, 5352.0, 5546.0, 5456.0, 5593.0, 5261.0, 5345.0, 5603.0, 5447.0, 5371.0, 5381.0, 5536.0, 5420.0, 5339.0, 5297.0, 5495.0, 5405.0, 5553.0, 5489.0, 5657.0, 5714.0, 5480.0, 5303.0, 5550.0, 5368.0, 5668.0, 5631.0, 5695.0, 5268.0, 5568.0, 5314.0, 5614.0, 5452.0, 5664.0, 5701.0, 5350.0, 5617.0, 5635.0, 5665.0, 5306.0 (number of hits: 10)
8	5290	9	1	333	1	5645.0, 5465.0, 5560.0, 5342.0, 5365.0, 5529.0, 5682.0, 5299.0, 5648.0, 5710.0, 5543.0, 5599.0, 5613.0, 5563.0, 5473.0, 5610.0, 5265.0, 5318.0, 5651.0, 5665.0, 5454.0, 5598.0, 5704.0, 5589.0, 5514.0, 5608.0, 5519.0, 5692.0, 5361.0, 5389.0, 5664.0, 5545.0, 5559.0, 5574.0, 5659.0, 5686.0, 5491.0, 5642.0, 5674.0, 5439.0, 5455.0, 5586.0, 5572.0, 5698.0, 5690.0, 5537.0, 5546.0, 5434.0, 5643.0, 5378.0, 5715.0, 5330.0, 5580.0, 5467.0, 5597.0, 5460.0, 5720.0, 5549.0, 5629.0, 5703.0, 5278.0, 5298.0, 5488.0, 5423.0, 5670.0, 5623.0, 5548.0, 5507.0, 5349.0, 5324.0, 5583.0, 5626.0, 5398.0, 5528.0, 5329.0, 5466.0, 5400.0, 5301.0, 5633.0, 5338.0, 5721.0, 5561.0, 5714.0, 5260.0, 5533.0, 5269.0, 5415.0, 5357.0, 5484.0, 5667.0, 5462.0, 5305.0, 5477.0, 5468.0, 5451.0, 5685.0, 5480.0, 5573.0, 5276.0, 5268.0 (number of hits: 4)
9	5290	9	1	333	1	5255.0, 5445.0, 5261.0, 5665.0, 5434.0, 5389.0, 5420.0, 5493.0, 5383.0, 5557.0, 5472.0, 5314.0, 5479.0, 5336.0, 5693.0, 5374.0, 5477.0, 5691.0, 5518.0, 5456.0, 5678.0, 5586.0, 5629.0, 5661.0, 5392.0, 5517.0, 5333.0, 5698.0, 5681.0, 5712.0,

						5317.0, 5563.0, 5423.0, 5662.0, 5670.0, 5429.0, 5307.0, 5284.0, 5589.0, 5522.0, 5278.0, 5655.0, 5551.0, 5650.0, 5657.0, 5464.0, 5417.0, 5702.0, 5682.0, 5300.0, 5430.0, 5355.0, 5501.0, 5271.0, 5562.0, 5476.0, 5630.0, 5367.0, 5673.0, 5483.0, 5418.0, 5290.0, 5523.0, 5594.0, 5387.0, 5306.0, 5396.0, 5309.0, 5539.0, 5353.0, 5494.0, 5363.0, 5274.0, 5461.0, 5606.0, 5299.0, 5369.0, 5316.0, 5669.0, 5635.0, 5433.0, 5554.0, 5296.0, 5553.0, 5638.0, 5366.0, 5285.0, 5282.0, 5611.0, 5502.0, 5514.0, 5273.0, 5362.0, 5439.0, 5628.0, 5631.0, 5704.0, 5320.0, 5537.0, 5711.0 (number of hits: 9)
10	5290	9	1	333	1	5683.0, 5535.0, 5558.0, 5413.0, 5674.0, 5627.0, 5628.0, 5662.0, 5619.0, 5721.0, 5710.0, 5447.0, 5550.0, 5443.0, 5424.0, 5332.0, 5423.0, 5686.0, 5487.0, 5713.0, 5510.0, 5415.0, 5386.0, 5342.0, 5269.0, 5474.0, 5337.0, 5481.0, 5572.0, 5657.0, 5381.0, 5680.0, 5402.0, 5526.0, 5286.0, 5693.0, 5653.0, 5685.0, 5389.0, 5612.0, 5643.0, 5656.0, 5440.0, 5441.0, 5499.0, 5250.0, 5362.0, 5313.0, 5582.0, 5610.0, 5598.0, 5650.0, 5409.0, 5717.0, 5642.0, 5549.0, 5523.0, 5539.0, 5368.0, 5380.0, 5300.0, 5633.0, 5445.0, 5533.0, 5390.0, 5562.0, 5615.0, 5455.0, 5476.0, 5291.0, 5491.0, 5513.0, 5452.0, 5647.0, 5391.0, 5723.0, 5528.0, 5449.0, 5520.0, 5694.0, 5638.0, 5477.0, 5655.0, 5361.0, 5540.0, 5309.0, 5318.0, 5722.0, 5616.0, 5279.0, 5259.0, 5364.0, 5357.0, 5597.0, 5626.0, 5590.0, 5456.0, 5385.0, 5265.0, 5328.0 (number of hits: 5)
11	5290	9	1	333	1	5569.0, 5387.0, 5422.0, 5722.0, 5329.0, 5512.0, 5476.0, 5624.0, 5472.0, 5681.0, 5436.0, 5599.0, 5279.0, 5689.0, 5572.0, 5544.0, 5644.0, 5340.0, 5344.0, 5574.0, 5392.0, 5362.0, 5338.0, 5358.0, 5697.0, 5426.0, 5306.0, 5403.0, 5564.0, 5669.0, 5254.0, 5545.0, 5398.0, 5584.0, 5667.0, 5699.0, 5617.0, 5573.0, 5318.0, 5692.0, 5518.0, 5313.0, 5352.0, 5618.0, 5433.0, 5462.0, 5429.0, 5428.0, 5672.0, 5606.0, 5562.0, 5589.0, 5575.0, 5418.0, 5332.0, 5600.0, 5634.0, 5284.0, 5659.0, 5707.0, 5522.0, 5511.0, 5384.0, 5670.0, 5354.0, 5633.0, 5356.0, 5359.0, 5371.0, 5492.0, 5335.0, 5333.0, 5423.0, 5397.0, 5515.0, 5466.0, 5578.0, 5288.0, 5257.0, 5307.0, 5547.0, 5368.0, 5348.0, 5534.0, 5637.0, 5705.0, 5510.0, 5708.0, 5321.0, 5446.0, 5712.0, 5691.0, 5294.0, 5303.0, 5393.0, 5323.0, 5380.0, 5449.0, 5683.0, 5425.0 (number of hits: 6)
12	5290	9	1	333	1	5638.0, 5612.0, 5517.0, 5294.0, 5541.0, 5476.0, 5310.0, 5532.0, 5420.0, 5544.0, 5525.0, 5299.0, 5430.0, 5492.0, 5362.0,

						5556.0, 5308.0, 5493.0, 5276.0, 5465.0, 5357.0, 5496.0, 5334.0, 5345.0, 5356.0, 5307.0, 5252.0, 5712.0, 5674.0, 5595.0, 5516.0, 5513.0, 5641.0, 5502.0, 5624.0, 5457.0, 5691.0, 5548.0, 5339.0, 5625.0, 5317.0, 5383.0, 5314.0, 5313.0, 5341.0, 5515.0, 5599.0, 5477.0, 5411.0, 5693.0, 5479.0, 5634.0, 5338.0, 5582.0, 5262.0, 5325.0, 5557.0, 5296.0, 5660.0, 5542.0, 5670.0, 5285.0, 5291.0, 5688.0, 5714.0, 5264.0, 5452.0, 5713.0, 5347.0, 5286.0, 5704.0, 5598.0, 5384.0, 5567.0, 5668.0, 5266.0, 5410.0, 5469.0, 5667.0, 5373.0, 5482.0, 5549.0, 5374.0, 5455.0, 5507.0, 5267.0, 5396.0, 5563.0, 5506.0, 5581.0, 5656.0, 5320.0, 5336.0, 5689.0, 5456.0, 5658.0, 5639.0, 5577.0, 5375.0, 5428.0 (number of hits: 11)
13	5290	9	1	333	1	5344.0, 5480.0, 5682.0, 5341.0, 5265.0, 5274.0, 5570.0, 5502.0, 5693.0, 5295.0, 5549.0, 5707.0, 5579.0, 5419.0, 5349.0, 5325.0, 5694.0, 5353.0, 5492.0, 5640.0, 5442.0, 5533.0, 5422.0, 5599.0, 5608.0, 5489.0, 5650.0, 5606.0, 5539.0, 5300.0, 5289.0, 5607.0, 5352.0, 5691.0, 5565.0, 5372.0, 5679.0, 5354.0, 5376.0, 5251.0, 5723.0, 5459.0, 5658.0, 5415.0, 5575.0, 5255.0, 5388.0, 5572.0, 5425.0, 5463.0, 5623.0, 5324.0, 5452.0, 5408.0, 5497.0, 5444.0, 5450.0, 5380.0, 5305.0, 5469.0, 5526.0, 5394.0, 5486.0, 5358.0, 5418.0, 5368.0, 5615.0, 5528.0, 5504.0, 5333.0, 5695.0, 5312.0, 5622.0, 5311.0, 5470.0, 5369.0, 5593.0, 5256.0, 5271.0, 5443.0, 5543.0, 5673.0, 5328.0, 5285.0, 5503.0, 5330.0, 5718.0, 5564.0, 5559.0, 5318.0, 5327.0, 5512.0, 5594.0, 5401.0, 5429.0, 5287.0, 5319.0, 5253.0, 5342.0, 5363.0 (number of hits: 8)
14	5290	9	1	333	1	5518.0, 5494.0, 5386.0, 5400.0, 5389.0, 5604.0, 5503.0, 5257.0, 5421.0, 5331.0, 5662.0, 5587.0, 5502.0, 5572.0, 5584.0, 5664.0, 5373.0, 5585.0, 5712.0, 5620.0, 5510.0, 5667.0, 5542.0, 5698.0, 5657.0, 5422.0, 5399.0, 5554.0, 5530.0, 5365.0, 5265.0, 5704.0, 5302.0, 5552.0, 5718.0, 5499.0, 5713.0, 5544.0, 5548.0, 5538.0, 5307.0, 5686.0, 5513.0, 5410.0, 5285.0, 5699.0, 5517.0, 5511.0, 5318.0, 5616.0, 5669.0, 5490.0, 5288.0, 5379.0, 5475.0, 5645.0, 5330.0, 5474.0, 5688.0, 5432.0, 5590.0, 5261.0, 5592.0, 5339.0, 5681.0, 5273.0, 5523.0, 5559.0, 5628.0, 5655.0, 5457.0, 5463.0, 5441.0, 5666.0, 5722.0, 5414.0, 5487.0, 5644.0, 5452.0, 5323.0, 5292.0, 5468.0, 5449.0, 5671.0, 5685.0, 5402.0, 5558.0, 5593.0, 5706.0, 5687.0, 5425.0, 5301.0, 5521.0, 5284.0, 5646.0, 5349.0, 5264.0, 5283.0, 5316.0, 5623.0 (number of hits: 6)

15	5290	9	1	333	1	5638.0, 5504.0, 5401.0, 5508.0, 5710.0, 5630.0, 5619.0, 5426.0, 5555.0, 5403.0, 5676.0, 5384.0, 5706.0, 5696.0, 5501.0, 5673.0, 5404.0, 5340.0, 5552.0, 5367.0, 5315.0, 5486.0, 5374.0, 5259.0, 5326.0, 5290.0, 5440.0, 5514.0, 5269.0, 5361.0, 5487.0, 5692.0, 5635.0, 5503.0, 5717.0, 5338.0, 5282.0, 5369.0, 5672.0, 5537.0, 5312.0, 5306.0, 5436.0, 5709.0, 5667.0, 5427.0, 5264.0, 5339.0, 5354.0, 5438.0, 5569.0, 5529.0, 5348.0, 5559.0, 5548.0, 5465.0, 5694.0, 5281.0, 5604.0, 5637.0, 5627.0, 5263.0, 5621.0, 5632.0, 5535.0, 5353.0, 5600.0, 5628.0, 5492.0, 5444.0, 5566.0, 5528.0, 5611.0, 5507.0, 5268.0, 5651.0, 5293.0, 5461.0, 5289.0, 5643.0, 5330.0, 5377.0, 5609.0, 5594.0, 5407.0, 5448.0, 5371.0, 5462.0, 5644.0, 5441.0, 5380.0, 5716.0, 5712.0, 5520.0, 5356.0, 5671.0, 5522.0, 5422.0, 5480.0, 5434.0 (number of hits: 5)
16	5290	9	1	333	1	5480.0, 5290.0, 5337.0, 5520.0, 5570.0, 5405.0, 5431.0, 5458.0, 5544.0, 5659.0, 5416.0, 5454.0, 5495.0, 5542.0, 5474.0, 5436.0, 5623.0, 5709.0, 5370.0, 5252.0, 5357.0, 5696.0, 5634.0, 5715.0, 5587.0, 5312.0, 5638.0, 5427.0, 5664.0, 5251.0, 5584.0, 5425.0, 5511.0, 5306.0, 5461.0, 5575.0, 5691.0, 5486.0, 5532.0, 5501.0, 5591.0, 5276.0, 5356.0, 5649.0, 5460.0, 5514.0, 5531.0, 5471.0, 5590.0, 5679.0, 5482.0, 5687.0, 5627.0, 5270.0, 5636.0, 5538.0, 5640.0, 5564.0, 5330.0, 5546.0, 5593.0, 5498.0, 5620.0, 5632.0, 5394.0, 5637.0, 5688.0, 5328.0, 5355.0, 5521.0, 5621.0, 5255.0, 5344.0, 5616.0, 5714.0, 5288.0, 5273.0, 5644.0, 5597.0, 5446.0, 5716.0, 5695.0, 5368.0, 5287.0, 5264.0, 5609.0, 5702.0, 5524.0, 5629.0, 5358.0, 5478.0, 5435.0, 5513.0, 5713.0, 5265.0, 5380.0, 5286.0, 5324.0, 5516.0, 5510.0 (number of hits: 6)
17	5290	9	1	333	1	5702.0, 5693.0, 5701.0, 5615.0, 5520.0, 5550.0, 5683.0, 5694.0, 5422.0, 5391.0, 5334.0, 5560.0, 5546.0, 5443.0, 5669.0, 5623.0, 5677.0, 5297.0, 5267.0, 5336.0, 5541.0, 5566.0, 5655.0, 5402.0, 5525.0, 5533.0, 5284.0, 5395.0, 5276.0, 5352.0, 5393.0, 5354.0, 5325.0, 5682.0, 5650.0, 5406.0, 5410.0, 5351.0, 5507.0, 5596.0, 5697.0, 5651.0, 5584.0, 5431.0, 5631.0, 5321.0, 5496.0, 5312.0, 5713.0, 5628.0, 5647.0, 5716.0, 5363.0, 5428.0, 5369.0, 5521.0, 5455.0, 5569.0, 5551.0, 5282.0, 5633.0, 5540.0, 5473.0, 5347.0, 5303.0, 5588.0, 5490.0, 5479.0, 5577.0, 5536.0, 5253.0, 5370.0, 5580.0, 5611.0, 5710.0, 5722.0, 5367.0, 5339.0, 5597.0, 5610.0, 5437.0, 5309.0, 5283.0, 5440.0, 5712.0, 5678.0, 5302.0, 5491.0, 5423.0, 5666.0,

						5320.0, 5356.0, 5707.0, 5414.0, 5366.0, 5675.0, 5509.0, 5709.0, 5306.0, 5304.0 (number of hits: 7)
18	5290	9	1	333	1	5512.0, 5636.0, 5442.0, 5529.0, 5612.0, 5349.0, 5597.0, 5425.0, 5593.0, 5255.0, 5628.0, 5711.0, 5707.0, 5714.0, 5417.0, 5359.0, 5669.0, 5448.0, 5664.0, 5540.0, 5712.0, 5546.0, 5382.0, 5721.0, 5634.0, 5578.0, 5631.0, 5654.0, 5412.0, 5588.0, 5503.0, 5293.0, 5533.0, 5506.0, 5273.0, 5710.0, 5456.0, 5449.0, 5403.0, 5481.0, 5418.0, 5441.0, 5677.0, 5288.0, 5565.0, 5415.0, 5525.0, 5319.0, 5544.0, 5621.0, 5519.0, 5436.0, 5497.0, 5437.0, 5511.0, 5722.0, 5548.0, 5451.0, 5360.0, 5723.0, 5688.0, 5408.0, 5399.0, 5331.0, 5572.0, 5560.0, 5452.0, 5536.0, 5450.0, 5402.0, 5461.0, 5352.0, 5609.0, 5312.0, 5633.0, 5516.0, 5480.0, 5324.0, 5465.0, 5413.0, 5435.0, 5604.0, 5661.0, 5398.0, 5508.0, 5337.0, 5384.0, 5475.0, 5515.0, 5440.0, 5520.0, 5453.0, 5671.0, 5271.0, 5468.0, 5364.0, 5576.0, 5336.0, 5297.0, 5460.0 (number of hits: 4)
19	5290	9	1	333	1	5587.0, 5250.0, 5670.0, 5336.0, 5338.0, 5507.0, 5317.0, 5475.0, 5257.0, 5611.0, 5529.0, 5519.0, 5604.0, 5719.0, 5405.0, 5614.0, 5503.0, 5382.0, 5581.0, 5606.0, 5389.0, 5484.0, 5340.0, 5347.0, 5490.0, 5509.0, 5327.0, 5531.0, 5334.0, 5679.0, 5605.0, 5330.0, 5298.0, 5285.0, 5411.0, 5393.0, 5553.0, 5259.0, 5538.0, 5672.0, 5491.0, 5616.0, 5711.0, 5533.0, 5436.0, 5377.0, 5709.0, 5644.0, 5669.0, 5513.0, 5433.0, 5626.0, 5534.0, 5515.0, 5713.0, 5718.0, 5547.0, 5636.0, 5454.0, 5627.0, 5665.0, 5414.0, 5692.0, 5381.0, 5404.0, 5421.0, 5369.0, 5399.0, 5556.0, 5571.0, 5549.0, 5536.0, 5684.0, 5530.0, 5521.0, 5580.0, 5657.0, 5660.0, 5686.0, 5390.0, 5445.0, 5495.0, 5315.0, 5654.0, 5444.0, 5296.0, 5264.0, 5262.0, 5402.0, 5640.0, 5700.0, 5501.0, 5460.0, 5352.0, 5690.0, 5635.0, 5470.0, 5357.0, 5392.0, 5617.0 (number of hits: 3)
20	5290	9	1	333	1	5458.0, 5623.0, 5341.0, 5578.0, 5325.0, 5259.0, 5610.0, 5521.0, 5374.0, 5557.0, 5412.0, 5576.0, 5411.0, 5302.0, 5510.0, 5518.0, 5600.0, 5672.0, 5595.0, 5523.0, 5680.0, 5386.0, 5474.0, 5430.0, 5608.0, 5327.0, 5275.0, 5440.0, 5419.0, 5406.0, 5402.0, 5616.0, 5318.0, 5603.0, 5656.0, 5313.0, 5371.0, 5261.0, 5593.0, 5253.0, 5652.0, 5587.0, 5363.0, 5633.0, 5349.0, 5579.0, 5448.0, 5638.0, 5531.0, 5699.0, 5301.0, 5291.0, 5404.0, 5569.0, 5331.0, 5585.0, 5527.0, 5717.0, 5320.0, 5266.0, 5529.0, 5621.0, 5472.0, 5477.0, 5562.0, 5262.0, 5606.0, 5618.0, 5447.0, 5698.0, 5701.0, 5486.0, 5258.0, 5555.0, 5401.0,

						5434.0, 5314.0, 5705.0, 5580.0, 5431.0, 5409.0, 5619.0, 5718.0, 5416.0, 5514.0, 5671.0, 5398.0, 5704.0, 5305.0, 5617.0, 5293.0, 5588.0, 5567.0, 5620.0, 5676.0, 5627.0, 5516.0, 5707.0, 5679.0, 5643.0 (number of hits: 7)
21	5290	9	1	333	1	5641.0, 5709.0, 5661.0, 5616.0, 5663.0, 5566.0, 5518.0, 5460.0, 5283.0, 5258.0, 5410.0, 5472.0, 5502.0, 5450.0, 5533.0, 5554.0, 5615.0, 5671.0, 5639.0, 5647.0, 5631.0, 5357.0, 5437.0, 5512.0, 5535.0, 5339.0, 5382.0, 5694.0, 5701.0, 5448.0, 5511.0, 5397.0, 5336.0, 5477.0, 5316.0, 5471.0, 5487.0, 5323.0, 5306.0, 5624.0, 5609.0, 5619.0, 5591.0, 5409.0, 5525.0, 5629.0, 5256.0, 5365.0, 5443.0, 5275.0, 5334.0, 5405.0, 5468.0, 5311.0, 5506.0, 5361.0, 5534.0, 5317.0, 5466.0, 5398.0, 5401.0, 5630.0, 5433.0, 5446.0, 5416.0, 5431.0, 5284.0, 5423.0, 5420.0, 5429.0, 5268.0, 5611.0, 5453.0, 5396.0, 5601.0, 5473.0, 5364.0, 5294.0, 5288.0, 5707.0, 5436.0, 5456.0, 5260.0, 5375.0, 5451.0, 5721.0, 5428.0, 5720.0, 5286.0, 5572.0, 5603.0, 5384.0, 5633.0, 5394.0, 5371.0, 5300.0, 5388.0, 5569.0, 5642.0, 5276.0 (number of hits: 6)
22	5290	9	1	333	1	5299.0, 5607.0, 5497.0, 5467.0, 5472.0, 5407.0, 5521.0, 5496.0, 5276.0, 5422.0, 5547.0, 5645.0, 5298.0, 5459.0, 5441.0, 5462.0, 5305.0, 5489.0, 5657.0, 5277.0, 5689.0, 5413.0, 5368.0, 5541.0, 5312.0, 5283.0, 5691.0, 5393.0, 5375.0, 5534.0, 5639.0, 5658.0, 5394.0, 5364.0, 5667.0, 5470.0, 5445.0, 5331.0, 5487.0, 5575.0, 5559.0, 5282.0, 5384.0, 5500.0, 5721.0, 5483.0, 5452.0, 5434.0, 5327.0, 5679.0, 5593.0, 5385.0, 5293.0, 5668.0, 5670.0, 5627.0, 5549.0, 5579.0, 5439.0, 5457.0, 5290.0, 5437.0, 5253.0, 5262.0, 5270.0, 5712.0, 5269.0, 5602.0, 5414.0, 5338.0, 5409.0, 5272.0, 5514.0, 5263.0, 5259.0, 5512.0, 5334.0, 5329.0, 5535.0, 5588.0, 5395.0, 5266.0, 5694.0, 5345.0, 5530.0, 5599.0, 5426.0, 5626.0, 5518.0, 5494.0, 5513.0, 5303.0, 5611.0, 5543.0, 5616.0, 5300.0, 5419.0, 5673.0, 5492.0, 5340.0 (number of hits: 8)
23	5290	9	1	333	1	5483.0, 5276.0, 5448.0, 5509.0, 5639.0, 5523.0, 5603.0, 5435.0, 5307.0, 5437.0, 5361.0, 5722.0, 5644.0, 5411.0, 5478.0, 5657.0, 5489.0, 5465.0, 5677.0, 5397.0, 5290.0, 5607.0, 5377.0, 5531.0, 5344.0, 5638.0, 5683.0, 5658.0, 5711.0, 5497.0, 5662.0, 5543.0, 5429.0, 5589.0, 5665.0, 5649.0, 5601.0, 5698.0, 5451.0, 5549.0, 5597.0, 5312.0, 5378.0, 5664.0, 5325.0, 5548.0, 5313.0, 5255.0, 5304.0, 5495.0, 5494.0, 5436.0, 5464.0, 5283.0, 5320.0, 5723.0, 5289.0, 5654.0, 5446.0, 5633.0,

						5571.0, 5572.0, 5524.0, 5650.0, 5467.0, 5641.0, 5279.0, 5410.0, 5372.0, 5263.0, 5358.0, 5334.0, 5456.0, 5621.0, 5269.0, 5570.0, 5259.0, 5636.0, 5364.0, 5419.0, 5322.0, 5366.0, 5675.0, 5686.0, 5288.0, 5674.0, 5362.0, 5622.0, 5360.0, 5701.0, 5476.0, 5392.0, 5545.0, 5692.0, 5492.0, 5624.0, 5331.0, 5256.0, 5694.0, 5536.0 (number of hits: 7)
24	5290	9	1	333	1	5467.0, 5351.0, 5696.0, 5366.0, 5695.0, 5323.0, 5578.0, 5371.0, 5702.0, 5545.0, 5403.0, 5585.0, 5499.0, 5686.0, 5361.0, 5346.0, 5444.0, 5281.0, 5482.0, 5326.0, 5396.0, 5556.0, 5640.0, 5449.0, 5497.0, 5252.0, 5316.0, 5593.0, 5628.0, 5438.0, 5493.0, 5505.0, 5394.0, 5496.0, 5692.0, 5290.0, 5558.0, 5268.0, 5484.0, 5345.0, 5317.0, 5284.0, 5442.0, 5387.0, 5631.0, 5551.0, 5374.0, 5280.0, 5488.0, 5612.0, 5354.0, 5576.0, 5534.0, 5573.0, 5389.0, 5536.0, 5490.0, 5384.0, 5288.0, 5308.0, 5324.0, 5544.0, 5543.0, 5721.0, 5492.0, 5335.0, 5535.0, 5370.0, 5430.0, 5540.0, 5305.0, 5707.0, 5619.0, 5662.0, 5379.0, 5256.0, 5386.0, 5391.0, 5581.0, 5412.0, 5604.0, 5515.0, 5405.0, 5340.0, 5678.0, 5668.0, 5646.0, 5599.0, 5325.0, 5600.0, 5567.0, 5413.0, 5270.0, 5716.0, 5372.0, 5718.0, 5609.0, 5519.0, 5495.0, 5282.0 (number of hits: 4)
25	5290	9	1	333	1	5683.0, 5320.0, 5478.0, 5405.0, 5337.0, 5344.0, 5586.0, 5561.0, 5372.0, 5584.0, 5322.0, 5648.0, 5520.0, 5565.0, 5595.0, 5540.0, 5611.0, 5660.0, 5331.0, 5638.0, 5273.0, 5694.0, 5392.0, 5293.0, 5511.0, 5481.0, 5346.0, 5514.0, 5449.0, 5615.0, 5414.0, 5674.0, 5692.0, 5710.0, 5450.0, 5368.0, 5557.0, 5673.0, 5286.0, 5645.0, 5670.0, 5475.0, 5472.0, 5468.0, 5479.0, 5314.0, 5327.0, 5699.0, 5558.0, 5560.0, 5419.0, 5433.0, 5355.0, 5503.0, 5444.0, 5524.0, 5664.0, 5706.0, 5484.0, 5519.0, 5591.0, 5351.0, 5598.0, 5375.0, 5624.0, 5535.0, 5663.0, 5630.0, 5318.0, 5269.0, 5485.0, 5545.0, 5640.0, 5606.0, 5549.0, 5469.0, 5571.0, 5590.0, 5256.0, 5445.0, 5566.0, 5437.0, 5316.0, 5282.0, 5385.0, 5412.0, 5365.0, 5404.0, 5718.0, 5406.0, 5275.0, 5667.0, 5636.0, 5393.0, 5399.0, 5345.0, 5617.0, 5325.0, 5639.0, 5711.0 (number of hits: 3)
26	5290	9	1	333	1	5491.0, 5591.0, 5687.0, 5388.0, 5343.0, 5514.0, 5469.0, 5581.0, 5594.0, 5362.0, 5448.0, 5706.0, 5250.0, 5460.0, 5379.0, 5606.0, 5719.0, 5450.0, 5300.0, 5584.0, 5313.0, 5359.0, 5283.0, 5481.0, 5599.0, 5674.0, 5264.0, 5677.0, 5605.0, 5435.0, 5721.0, 5347.0, 5697.0, 5641.0, 5465.0, 5682.0, 5525.0, 5541.0, 5262.0, 5369.0, 5643.0, 5375.0, 5284.0, 5348.0, 5536.0,

						5532.0, 5274.0, 5645.0, 5564.0, 5556.0, 5592.0, 5425.0, 5345.0, 5579.0, 5552.0, 5551.0, 5466.0, 5289.0, 5361.0, 5275.0, 5535.0, 5590.0, 5507.0, 5688.0, 5419.0, 5487.0, 5529.0, 5647.0, 5607.0, 5335.0, 5457.0, 5391.0, 5377.0, 5293.0, 5426.0, 5704.0, 5663.0, 5533.0, 5349.0, 5325.0, 5502.0, 5585.0, 5346.0, 5611.0, 5625.0, 5634.0, 5455.0, 5602.0, 5618.0, 5667.0, 5277.0, 5583.0, 5637.0, 5344.0, 5430.0, 5630.0, 5658.0, 5711.0, 5462.0, 5321.0 (number of hits: 4)
27	5290	9	1	333	1	5572.0, 5539.0, 5531.0, 5714.0, 5443.0, 5627.0, 5461.0, 5291.0, 5705.0, 5510.0, 5305.0, 5282.0, 5622.0, 5336.0, 5261.0, 5617.0, 5385.0, 5607.0, 5437.0, 5283.0, 5673.0, 5599.0, 5564.0, 5687.0, 5554.0, 5563.0, 5720.0, 5681.0, 5612.0, 5709.0, 5600.0, 5646.0, 5575.0, 5277.0, 5382.0, 5259.0, 5490.0, 5272.0, 5651.0, 5645.0, 5320.0, 5660.0, 5608.0, 5253.0, 5525.0, 5393.0, 5626.0, 5426.0, 5281.0, 5257.0, 5313.0, 5637.0, 5625.0, 5251.0, 5402.0, 5254.0, 5271.0, 5598.0, 5519.0, 5414.0, 5458.0, 5284.0, 5494.0, 5303.0, 5713.0, 5325.0, 5328.0, 5561.0, 5380.0, 5405.0, 5369.0, 5287.0, 5293.0, 5467.0, 5371.0, 5594.0, 5721.0, 5476.0, 5526.0, 5451.0, 5356.0, 5421.0, 5550.0, 5620.0, 5568.0, 5334.0, 5578.0, 5429.0, 5449.0, 5603.0, 5470.0, 5619.0, 5710.0, 5532.0, 5343.0, 5256.0, 5722.0, 5686.0, 5604.0, 5323.0 (number of hits: 6)
28	5290	9	1	333	1	5260.0, 5355.0, 5519.0, 5683.0, 5358.0, 5431.0, 5593.0, 5471.0, 5291.0, 5724.0, 5494.0, 5708.0, 5266.0, 5462.0, 5308.0, 5616.0, 5497.0, 5712.0, 5418.0, 5377.0, 5672.0, 5323.0, 5496.0, 5389.0, 5448.0, 5684.0, 5592.0, 5434.0, 5259.0, 5505.0, 5478.0, 5277.0, 5626.0, 5595.0, 5610.0, 5606.0, 5458.0, 5373.0, 5517.0, 5670.0, 5659.0, 5352.0, 5278.0, 5261.0, 5701.0, 5637.0, 5607.0, 5466.0, 5480.0, 5514.0, 5718.0, 5357.0, 5375.0, 5251.0, 5490.0, 5396.0, 5275.0, 5413.0, 5504.0, 5324.0, 5427.0, 5674.0, 5307.0, 5452.0, 5645.0, 5473.0, 5270.0, 5287.0, 5467.0, 5479.0, 5401.0, 5384.0, 5652.0, 5328.0, 5326.0, 5267.0, 5339.0, 5509.0, 5511.0, 5539.0, 5315.0, 5590.0, 5638.0, 5453.0, 5526.0, 5658.0, 5422.0, 5423.0, 5439.0, 5711.0, 5630.0, 5525.0, 5370.0, 5280.0, 5623.0, 5405.0, 5392.0, 5442.0, 5294.0, 5488.0 (number of hits: 5)
29	5290	9	1	333	1	5575.0, 5413.0, 5628.0, 5589.0, 5420.0, 5590.0, 5546.0, 5605.0, 5552.0, 5404.0, 5488.0, 5358.0, 5677.0, 5290.0, 5386.0, 5534.0, 5540.0, 5717.0, 5334.0, 5681.0, 5497.0, 5703.0, 5271.0, 5399.0, 5596.0, 5582.0, 5384.0, 5512.0, 5306.0, 5518.0,

						5687.0, 5258.0, 5682.0, 5340.0, 5599.0, 5461.0, 5533.0, 5492.0, 5531.0, 5690.0, 5619.0, 5521.0, 5330.0, 5454.0, 5314.0, 5617.0, 5434.0, 5507.0, 5337.0, 5481.0, 5350.0, 5620.0, 5444.0, 5373.0, 5594.0, 5658.0, 5561.0, 5622.0, 5515.0, 5675.0, 5453.0, 5363.0, 5282.0, 5573.0, 5539.0, 5646.0, 5660.0, 5718.0, 5406.0, 5598.0, 5402.0, 5264.0, 5648.0, 5519.0, 5347.0, 5667.0, 5429.0, 5309.0, 5653.0, 5629.0, 5647.0, 5705.0, 5541.0, 5650.0, 5357.0, 5305.0, 5586.0, 5502.0, 5281.0, 5475.0, 5426.0, 5283.0, 5655.0, 5477.0, 5328.0, 5645.0, 5568.0, 5508.0, 5326.0, 5410.0 (number of hits: 5)
30	5290	9	1	333	1	5525.0, 5273.0, 5697.0, 5282.0, 5464.0, 5638.0, 5604.0, 5595.0, 5579.0, 5533.0, 5570.0, 5305.0, 5353.0, 5389.0, 5470.0, 5373.0, 5357.0, 5300.0, 5550.0, 5471.0, 5717.0, 5336.0, 5446.0, 5309.0, 5354.0, 5468.0, 5281.0, 5424.0, 5346.0, 5457.0, 5666.0, 5492.0, 5268.0, 5716.0, 5664.0, 5377.0, 5512.0, 5443.0, 5718.0, 5432.0, 5475.0, 5590.0, 5568.0, 5285.0, 5542.0, 5458.0, 5467.0, 5382.0, 5263.0, 5621.0, 5685.0, 5644.0, 5509.0, 5642.0, 5477.0, 5559.0, 5322.0, 5401.0, 5600.0, 5447.0, 5253.0, 5704.0, 5275.0, 5488.0, 5422.0, 5315.0, 5317.0, 5598.0, 5581.0, 5340.0, 5480.0, 5343.0, 5537.0, 5637.0, 5689.0, 5387.0, 5619.0, 5472.0, 5505.0, 5659.0, 5485.0, 5526.0, 5597.0, 5632.0, 5319.0, 5271.0, 5460.0, 5392.0, 5606.0, 5521.0, 5683.0, 5288.0, 5650.0, 5459.0, 5403.0, 5620.0, 5421.0, 5251.0, 5643.0, 5504.0 (number of hits: 5)

5530 MHz, 80 MHz Bandwidth

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

Please refer to the following statistical tables:

Table-1 Radar Type 1 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5530	18	1	1428	1
2	5530	18	1	1428	1
3	5530	18	1	1428	1
4	5530	18	1	1428	1
5	5530	18	1	1428	1
6	5530	18	1	1428	1
7	5530	18	1	1428	1
8	5530	18	1	1428	1
9	5530	18	1	1428	1
10	5530	18	1	1428	1
11	5530	18	1	1428	1
12	5530	18	1	1428	1
13	5530	18	1	1428	1
14	5530	18	1	1428	1
15	5530	18	1	1428	1
16	5530	18	1	1428	1
17	5530	18	1	1428	1
18	5530	18	1	1428	1
19	5530	18	1	1428	1
20	5530	18	1	1428	1
21	5530	18	1	1428	1
22	5530	18	1	1428	1
23	5530	18	1	1428	1
24	5530	18	1	1428	1
25	5530	18	1	1428	1
26	5530	18	1	1428	1
27	5530	18	1	1428	1
28	5530	18	1	1428	1
29	5530	18	1	1428	1
30	5530	18	1	1428	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	26	3.1	213	1
2	5530	27	2.8	171	
3	5530	28	3.3	194	1
4	5530	24	3	219	1
5	5530	25	3.9	177	1
6	5530	25	1	179	1
7	5530	24	5	225	1
8	5530	24	2.4	160	0
9	5530	27	2.6	217	0
10	5530	28	2.9	227	0
11	5530	29	2.8	169	1
12	5530	25	1.4	182	1
13	5530	25	1.6	228	1
14	5530	25	1.3	210	1
15	5530	29	4.5	225	1
16	5530	23	2	171	1
17	5530	26	2.6	186	0
18	5530	29	3.4	206	1
19	5530	25	3.2	174	1
20	5530	28	1.7	184	1
21	5530	25	2	165	1
22	5530	23	3.2	213	1
23	5530	28	1.6	216	0
24	5530	23	1.1	189	1
25	5530	28	1.2	220	1
26	5530	23	1.5	151	0
27	5530	24	3.7	155	0
28	5530	26	3.6	204	1
29	5530	28	2.6	173	0
30	5530	28	4.7	211	1
Detection Percentage: 70 % (>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	7.9	275	1
2	5530	16	7.4	401	1
3	5530	16	9.1	223	1
4	5530	18	8.2	254	1
5	5530	17	7.4	278	1
6	5530	17	6.7	391	0
7	5530	16	6.1	453	1
8	5530	17	6.7	245	1
9	5530	17	7.6	230	0
10	5530	18	8.5	348	1
11	5530	17	9.6	239	1
12	5530	16	8.1	292	1
13	5530	16	9.2	223	1
14	5530	17	9.2	392	1
15	5530	16	6	294	1
16	5530	16	8.7	394	1
17	5530	17	7.8	238	1
18	5530	16	6.2	333	1
19	5530	17	7.3	382	1
20	5530	17	9	443	1
21	5530	17	6.1	240	1
22	5530	17	6	414	1
23	5530	16	7	348	1
24	5530	18	6.2	448	1
25	5530	18	9	484	1
26	5530	17	8.3	376	1
27	5530	16	8	323	1
28	5530	18	6.9	451	1
29	5530	17	9.9	262	1
30	5530	16	7.7	324	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	5530	12	12.1	239	1
2	5530	15	15.8	498	1
3	5530	13	17	222	1
4	5530	16	18.7	457	1
5	5530	16	17.9	485	1
6	5530	14	12.5	349	1
7	5530	13	16.9	390	1
8	5530	14	11.5	201	1
9	5530	13	16	395	1
10	5530	14	13.7	232	1
11	5530	14	15.5	387	1
12	5530	15	15.9	302	1
13	5530	16	13.6	420	1
14	5530	13	17.6	328	1
15	5530	16	18.3	225	1
16	5530	16	18.3	324	1
17	5530	13	12.6	474	1
18	5530	12	13.6	298	1
19	5530	12	13.2	386	1
20	5530	15	14.6	474	1
21	5530	15	17.7	421	1
22	5530	12	11.5	479	1
23	5530	13	12.1	500	1
24	5530	15	16.1	283	1
25	5530	13	19.6	311	1
26	5530	12	18.4	277	1
27	5530	13	15.4	403	1
28	5530	15	13.8	272	1
29	5530	12	12.8	286	1
30	5530	12	16.5	320	0
Detection Percentage: 96.7 % (>60%)					

Table-5 Radar Type 5 Statistical Performance

Bin5 Statistics 1

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	16	53.4	1545		0.471088	1
1	2	14	64.9	1340		0.864597	
2	1	14	69			1.539136	
3	3	16	74.9	1880	1837	2.232286	
4	3	15	62.5	1135	1933	3.035734	
5	1	18	60.4			3.950705	
6	1	17	75.3			4.040461	
7	3	6	63.9	1825	1321	4.859054	
8	2	14	89.4	1307		5.888119	
9	2	10	94.1	1477		6.278998	
10	2	8	87.4	1343		7.152851	
11	2	6	84.5	1343		7.460011	
12	1	7	52.7			8.035735	
13	2	10	73.6	1947		8.855993	
14	1	19	85.5			9.59337	
15	2	10	50.5	1384		10.393299	
16	2	20	61	1180		10.848025	
17	3	8	88.6	1551	1556	11.477159	

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	16	60.7	1452	1376	0.672994	1
1	2	20	58.3	1128		2.357315	
2	1	11	69.7			2.68937	
3	2	6	98.2	1639		4.183984	
4	1	17	79.8			5.561409	
5	2	19	58.2	1099		6.739327	
6	3	17	64.1	1379	1082	8.046006	
7	2	5	88.7	1740		8.87525	
8	1	5	76.6			10.307606	
9	2	5	65.9	1642		11.846036	

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	97.7	1259		0.672877	1
1	2	9	99.6	1525		1.028798	
2	2	20	83.8	1329		2.673265	
3	1	18	92.4			3.005983	
4	2	6	80.5	1553		4.278619	
5	1	16	78.3			5.332585	
6	2	17	71.4	1813		5.908745	
7	1	12	82.3			6.953292	
8	3	17	85.8	1761	1731	8.127505	
9	2	14	89.7	1444		8.997729	
10	2	16	57	1932		9.520669	
11	3	15	50.3	1449	1798	10.327994	
12	1	15	77.5			11.872557	

Bin5 Statistics 4

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	7	88.5			0.915377	1
1	2	20	57.6	1881		1.379627	
2	1	6	64.1			2.63736	
3	3	18	85.7	1619	1414	3.856315	
4	2	19	61.7	1823		5.389711	
5	2	15	80.7	1458		7.158186	
6	3	17	62.1	1468	1687	8.214771	
7	2	15	55	1450		8.909423	
8	2	7	58.2	1563		10.660143	
9	2	12	89	1527		11.531495	

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	77.4	1073		0.630163	
1	2	20	56.2	1119		0.860961	
2	2	12	64.5	1766		1.66454	
3	3	20	89.7	1842	1746	2.869582	
4	2	19	70.8	1480		3.912252	
5	2	14	75.3	1683		4.445172	
6	2	18	61.8	1010		4.901439	
7	1	15	95.8			5.900726	1
8	3	16	99.5	1730	1000	7.175469	
9	1	7	64			7.862409	
10	3	14	89.5	1925	1563	8.119668	
11	2	11	79.4	1021		8.914068	
12	1	9	69.2			9.699945	
13	2	19	65.1	1312		10.578438	
14	3	8	50.3	1062	1919	11.727749	

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	8	73.4	1696		0.552322	
1	2	17	67.4	1446		1.380608	
2	2	6	71.6	1311		2.493612	
3	2	17	82.5	1849		4.014756	
4	3	18	80	1379	1905	4.468323	
5	1	9	58.3			6.527922	1
6	1	16	97.9			7.002219	
7	2	18	53.8	1634		8.189843	
8	2	16	75.7	1733		8.934534	
9	3	16	93.1	1914	1175	10.661564	
10	2	20	89.8	1035		11.339749	

Bin5 Statistics 7

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	13	75.8	1501	1224	0.129907	1
1	1	9	76.4			0.736393	
2	2	11	100	1785		2.083449	
3	1	18	52.7			2.161189	
4	1	16	84.7			3.316019	
5	3	10	63.7	1530	1831	3.577126	
6	3	13	66.1	1726	1649	4.886755	
7	3	15	65.1	1295	1294	5.190198	
8	3	18	96.7	1727	1211	5.975289	
9	1	19	88.3			6.88867	
10	1	10	66.2			7.17632	
11	2	6	89.5	1835		8.398772	
12	2	15	60	1146		8.695736	
13	1	18	75.2			9.764178	
14	2	7	96.3	1350		10.487938	
15	2	14	61.2	1144		11.186266	
16	3	7	73.3	1539	1228	11.650878	
0	3	13	75.8	1501	1224	0.129907	

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	18	58.7			0.112145	1
1	3	6	83.2	1235	1776	1.589227	
2	2	6	75.4	1527		2.231908	
3	2	9	51.3	1120		2.636203	
4	2	11	92.5	1534		3.665644	
5	2	19	50.6	1086		4.421801	
6	2	15	88	1879		5.849484	
7	3	12	90.3	1630	1180	6.774236	
8	1	6	52.8			7.685289	
9	3	10	52.7	1710	1252	8.262873	
10	3	14	80.6	1193	1375	8.908906	
11	1	13	51			9.96916	
12	2	19	64.7	1684		10.723379	
13	1	15	68.9			11.964354	

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	19	80	1234		0.481656	1
1	1	11	53.5			1.159991	
2	2	20	60.8	1707		1.375726	
3	2	10	84.5	1052		2.449597	
4	1	18	78.1			2.961852	
5	3	8	69	1738	1866	3.487207	
6	2	10	74	1819		4.368236	
7	3	8	87.3	1944	1320	5.223618	
8	2	7	87.5	1774		5.970036	
9	1	12	80.5			6.355192	
10	1	8	60			6.79169	
11	1	11	80			7.366057	
12	1	6	71.4			8.440329	
13	1	11	57.7			9.20507	
14	3	20	79.5	1879	1851	9.567892	
15	2	8	58.4	1359		10.637977	
16	2	19	79.5	1754		10.824091	
17	2	17	100	1487		11.883392	

Bin5 Statistics 10

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	9	86.9	1346		0.911518	1
1	3	8	53.9	1356	1360	1.399727	
2	1	18	55.1			1.987678	
3	2	11	67.3	1732		3.564145	
4	2	11	73.8	1318		4.129798	
5	3	5	70.5	1696	1951	4.782476	
6	3	15	80.6	1909	1161	5.902528	
7	1	17	56.9			6.57399	
8	2	17	69.2	1137		7.550065	
9	1	10	51.4			8.681761	
10	1	17	88.3			9.273293	
11	2	19	86.7	1308		10.761572	
12	1	11	94.4			11.528824	

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	7	77.2	1644		0.55741	
1	2	14	67.8	1362		0.682222	
2	1	19	54.7			1.375546	
3	2	14	78.6	1241		2.171775	
4	1	7	68.7			2.990681	
5	1	12	63			3.711612	
6	2	19	67.6	1838		4.169795	
7	1	6	59.7			4.770416	
8	2	12	58.4	1820		5.41117	
9	2	15	65.7	1015		5.764067	1
10	2	6	53.8	1345		6.674572	
11	3	15	98.4	1695	1680	7.501202	
12	2	5	71.6	1180		7.961648	
13	1	5	51.1			8.744495	
14	1	12	50.1			9.297555	
15	3	10	50.2	1844	1750	9.534905	
16	2	10	62.6	1885		10.559036	
17	1	20	60.5			11.114875	
18	3	11	77.9	1069	1253	11.674481	

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	17	82.7			0.406059	1
1	3	15	64.2	1760	1876	1.336421	
2	3	5	92.6	1447	1013	1.503108	
3	3	18	89.2	1901	1927	2.842177	
4	2	8	68.8	1518		3.406411	
5	2	17	65.7	1443		4.418612	
6	3	7	58	1701	1814	5.127758	
7	2	6	74.9	1048		5.621809	
8	1	6	92			6.299999	
9	2	19	55.8	1510		7.470294	
10	3	7	56.9	1158	1095	7.650422	
11	2	9	51.2	1504		8.876987	
12	1	18	59.4			9.737675	
13	2	5	67.3	1461		9.849516	
14	3	14	51.6	1158	1578	11.232909	
15	2	17	51	1504		11.916169	

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	15	81.4	1572		0.531023	
1	3	8	99.2	1558	1504	1.244596	
2	2	17	67.5	1635		1.885203	
3	2	6	99.4	1004		2.165225	
4	2	7	78.6	1065		2.781328	
5	1	10	54.7			3.783161	
6	2	7	81.6	1218		4.16427	
7	3	10	93.5	1009	1665	4.996407	
8	2	12	78.6	1703		5.552371	
9	1	19	95.2			5.698509	1
10	2	15	54.9	1552		6.430138	
11	2	14	91.4	1764		7.329414	
12	1	7	88.3			7.937536	
13	1	10	99.5			8.499481	
14	3	17	77.8	1598	1490	9.204824	
15	2	15	54	1499		9.589197	
16	2	8	93.4	1292		10.227037	
17	2	11	95.2	1088		11.11751	
18	3	8	75.5	1765	1779	11.964884	

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	11	90.6	1248		0.405645	
1	3	13	88.5	1086	1202	1.478842	
2	2	8	95.1	1731		2.900714	
3	1	16	66.7			3.993796	
4	2	12	62.1	1859		4.625519	
5	2	5	78.8	1380		5.643499	
6	2	14	83.6	1510		6.05087	1
7	3	11	51.8	1441	1485	7.238398	
8	1	11	50.1			8.051708	
9	1	15	77			9.34313	
10	1	7	85			10.97442	
11	2	18	67.7	1134		11.462008	

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	18	61.6	1996		0.336221	1
1	2	9	94.5	1916		1.006255	
2	3	20	98	1536	1816	2.55881	
3	2	18	68.7	1964		2.832445	
4	3	12	75.2	1290	1470	3.780309	
5	1	18	69.6			5.01194	
6	1	17	95.7			5.431898	
7	2	12	84.6	1118		6.224429	
8	2	15	59.9	1461		7.706527	
9	2	11	75.6	1001		8.194749	
10	3	11	51.6	1475	1844	9.119197	
11	2	10	50.9	1847		9.836764	
12	2	12	70.6	1955		10.903611	
13	3	18	82.8	1396	1470	11.709154	

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	6	89	1726	1533	0.273011	1
1	1	15	61.1			0.994541	
2	2	14	78.7	1156		1.639865	
3	3	15	50.9	1895	1353	2.566129	
4	2	6	96.6	1109		3.479162	
5	2	15	85.4	1529		4.219997	
6	2	5	67.6	1748		5.404554	
7	2	13	96.2	1738		5.635273	
8	1	15	62.9			6.595634	
9	2	16	52.3	1709		7.66963	
10	1	9	52.6			8.121767	
11	2	18	96.8	1071		8.959831	
12	3	15	58.5	1840	1020	9.870251	
13	2	18	80.6	1730		10.582206	
14	2	11	86.1	1893		11.702744	

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	10	89.5			0.051019	
1	1	11	95.7			1.482785	
2	2	15	85.4	1014		2.614868	
3	2	15	57.7	1369		3.285688	
4	1	8	72.5			4.083819	
5	2	15	75	1695		4.96204	
6	2	15	69.3	1244		6.145241	1
7	1	18	53.6			7.251033	
8	3	15	53.8	1348	1813	7.46645	
9	1	15	60.9			8.85489	
10	2	20	94.8	1008		10.038848	
11	3	5	70.4	1531	1294	10.929231	
12	2	16	74	1473		11.545633	

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	95.2	1757		0.226961	
1	2	14	77.5	1981		0.792901	
2	2	13	78.8	1630		1.41409	
3	1	15	60.8			2.268576	
4	3	6	55.3	1610	1174	3.50692	
5	3	11	94.9	1653	1682	3.963734	
6	3	14	67	1653	1228	4.713654	
7	1	18	84.6			5.297193	
8	3	10	62.2	1641	1224	6.332241	1
9	3	15	92.2	1174	1236	6.765128	
10	3	9	92.9	1196	1821	7.231174	
11	1	17	50.8			8.313201	
12	1	16	53.3			8.855174	
13	1	13	94.6			9.212968	
14	3	13	85.6	1098	1135	10.527877	
15	1	11	80.9			11.095852	
16	2	8	70.6	1441		11.95541	

Bin5 Statistics 19

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	14	65.7	1862	1303	0.588206	1
1	3	13	66.5	1013	1389	1.716637	
2	2	18	73.5	1232		3.590406	
3	2	16	95.1	1751		4.575756	
4	1	12	91.2			6.642863	
5	2	8	75.8	1782		7.333611	
6	2	6	54.8	1983		8.500684	
7	1	9	72.3			10.221114	
8	1	6	56.1			11.24367	

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	9	51	1360	1683	0.144881	1
1	2	12	82.3	1648		1.010366	
2	2	18	63.7	1110		1.821907	
3	2	14	73.2	1729		2.311011	
4	3	15	93.4	1161	1066	3.278661	
5	2	11	62.1	1292		3.569361	
6	1	17	55.5			4.442596	
7	3	18	54.8	1529	1086	4.921504	
8	3	6	81.5	1227	1693	5.970456	
9	1	7	77.4			6.624049	
10	2	10	63.4	1457		6.750707	
11	3	10	59.2	1466	1853	7.628293	
12	3	20	94.2	1508	1485	8.531019	
13	3	9	96.8	1209	1651	9.152418	
14	2	19	98.4	1910		9.45383	
15	2	13	85.1	1214		10.519814	
16	1	14	96.6			11.235204	
17	2	17	55.9	1620		11.986491	

Bin5 Statistics 21

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	7	61.3	1492		0.705059	
1	2	8	67.6	1270		1.599326	
2	3	16	96.8	1520	1544	2.309384	
3	2	5	58.2	1973		2.822641	
4	2	13	71.5	1243		4.476438	
5	2	8	64.5	1232		4.619822	
6	1	17	52.3			6.435112	1
7	3	13	86.3	1488	1664	7.186889	
8	2	18	98.5	1775		7.824677	
9	2	7	59.3	1640		9.047254	
10	1	16	77.1			10.023621	
11	3	19	95	1687	1247	10.59729	
12	1	11	54.6			11.571747	

Bin5 Statistics 22

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	19	98			0.864574	
1	1	5	56.7			2.135666	
2	2	8	58.1	1192		3.07969	
3	2	9	88.6	1154		4.246621	
4	2	12	51.5	1858		5.07949	
5	1	15	53.5			6.332772	1
6	3	15	82.1	1616	1149	7.274483	
7	2	14	70.5	1979		7.944756	
8	2	20	66.6	1020		8.940938	
9	1	11	56.2			10.512448	
10	2	11	94.2	1978		11.968336	

Bin5 Statistics 23

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	17	78	1168	1616	0.964619	1
1	2	13	90.1	1458		1.535482	
2	2	12	62.8	1159		2.951652	
3	2	11	97.8	1453		3.275113	
4	3	12	71.9	1399	1269	4.065133	
5	2	8	79.1	1330		5.314595	
6	1	12	81.7			6.768307	
7	3	18	81.8	1654	1500	7.374164	
8	2	12	98.1	1579		8.528566	
9	2	16	92	1334		9.366697	
10	2	18	76.5	1166		10.040023	
11	2	17	58.4	1059		11.134732	

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	52.2	1231	1702	0.582655	1
1	2	20	76.9	1654		2.463008	
2	2	10	88.4	1738		3.175121	
3	1	11	64.4			4.162545	
4	2	6	76.9	1842		5.354966	
5	1	16	96.5			7.238582	
6	2	6	62.7	1369		8.273594	
7	2	19	77.5	1358		10.135022	
8	2	17	81.1	1348		11.974749	

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	84.2	1644		0.517133	1
1	2	8	68.8	1181		0.7451	
2	1	13	77.9			1.340108	
3	1	14	89.4			2.382472	
4	1	13	77.5			3.242033	
5	2	7	61.7	1916		3.655293	
6	2	15	94.4	1714		4.523466	
7	2	16	88.5	1988		5.25094	
8	1	9	89			5.403565	
9	2	8	84.6	1126		6.009862	
10	2	6	95.3	1874		7.244713	
11	3	20	70.8	1149	1993	7.846249	
12	1	10	74.2			8.290161	
13	2	16	64.2	1802		9.263822	
14	2	15	80.1	1267		9.778347	
15	1	11	77.6			10.094307	
16	2	19	72.2	1492		10.846791	
17	2	9	53.7	1445		11.353266	

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	70.2	1597		0.006379	
1	1	8	73.8			1.379003	
2	2	14	69.5	1710		1.855653	
3	2	12	63.8	1559		2.968645	
4	1	8	57.1			4.32823	
5	3	14	63	1292	1641	5.153816	
6	1	18	50.6			6.333189	1
7	3	9	64.9	1616	1374	6.824166	
8	1	16	65.3			8.015751	
9	2	8	63.2	1326		9.166491	
10	2	17	69	1996		9.670849	
11	1	14	68.7			10.515955	
12	2	12	63.8	1097		11.898491	

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	16	62.2	1404		0.428268	
1	3	6	98.3	1704	1687	0.865797	
2	2	18	69.1	1947		1.68507	
3	1	11	79.7			2.119001	
4	2	17	52.2	1851		2.960345	
5	1	10	67.3			3.627218	
6	2	17	64.7	1550		4.13788	
7	3	10	90.7	1204	1460	4.48509	
8	1	16	90.1			5.110258	
9	2	11	73.7	1996		6.05308	1
10	2	7	74.8	1957		6.940922	
11	3	12	76.2	1110	1613	7.301458	
12	3	17	77.7	1347	1830	8.174704	
13	2	6	61.2	1591		8.783205	
14	2	8	75.9	1587		9.319509	
15	3	16	57.6	1689	1464	9.83213	
16	1	13	52.7			10.520187	
17	1	9	51			10.770508	
18	1	20	67.1			11.376102	

Bin5 Statistics 28

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	6	87.2			0.190127	1
1	3	8	79.8	1281	1996	1.273186	
2	1	19	66			3.475523	
3	3	17	79.9	1435	1032	4.5075	
4	2	12	87.1	1197		5.99506	
5	3	7	72.1	1357	1258	6.652489	
6	3	13	64.3	1903	1147	8.366944	
7	2	11	60	1371		9.404533	
8	1	10	57.6			10.702201	
9	1	12	59.3			11.643607	

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	82.6	1604		0.418736	1
1	1	16	55.7			1.493539	
2	3	14	71.5	1854	1932	2.523469	
3	2	19	55.8	1456		3.874956	
4	3	6	90.7	1439	1762	4.859562	
5	2	6	80	1858		6.618871	
6	1	18	61.4			7.497884	
7	1	7	76.5			9.577012	
8	2	15	74.3	1341		9.896715	
9	3	9	92.5	1502	1429	10.910394	

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	10	61.5	1638	1416	0.464791	0
1	1	6	95.5			1.542545	
2	2	5	83.6	1217		2.151401	
3	2	9	95.1	1399		3.073903	
4	2	13	66.7	1733		3.932923	
5	3	16	68.9	1395	1462	4.001137	
6	2	20	82.6	1603		5.373028	
7	1	16	61.6			6.370676	
8	2	9	50	1857		6.8192	
9	2	18	92.2	1252		7.204952	
10	2	17	59.4	1599		8.330676	
11	3	11	90.7	1573	1330	9.487773	
12	1	18	99.6			9.839942	
13	2	16	66	1507		10.814595	
14	2	9	65.6	1342		11.873293	

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	5508.0, 5325.0, 5652.0, 5428.0, 5606.0, 5520.0, 5476.0, 5490.0, 5695.0, 5412.0, 5460.0, 5429.0, 5719.0, 5341.0, 5668.0, 5297.0, 5417.0, 5548.0, 5408.0, 5416.0, 5453.0, 5539.0, 5430.0, 5269.0, 5647.0, 5413.0, 5624.0, 5288.0, 5411.0, 5706.0, 5346.0, 5441.0, 5432.0, 5446.0, 5588.0, 5455.0, 5308.0, 5553.0, 5474.0, 5433.0, 5255.0, 5529.0, 5464.0, 5266.0, 5328.0, 5339.0, 5382.0, 5394.0, 5533.0, 5519.0, 5674.0, 5517.0, 5334.0, 5383.0, 5378.0, 5423.0, 5440.0, 5279.0, 5535.0, 5323.0, 5472.0, 5659.0, 5630.0, 5489.0, 5616.0, 5643.0, 5645.0, 5352.0, 5673.0, 5309.0, 5575.0, 5457.0, 5304.0, 5549.0, 5509.0, 5574.0, 5321.0, 5298.0, 5300.0, 5406.0, 5618.0, 5571.0, 5720.0, 5649.0, 5337.0, 5671.0, 5335.0, 5523.0, 5696.0, 5481.0, 5648.0, 5717.0, 5579.0, 5710.0, 5562.0, 5351.0, 5301.0, 5611.0, 5320.0, 5285.0 (number of hits: 9)
2	5530	9	1	333	1	5689.0, 5618.0, 5418.0, 5386.0, 5390.0, 5396.0, 5535.0, 5565.0, 5306.0, 5707.0, 5338.0, 5430.0, 5359.0, 5686.0, 5446.0, 5254.0, 5255.0, 5300.0, 5330.0, 5501.0, 5612.0, 5451.0, 5696.0, 5340.0, 5303.0, 5583.0, 5470.0, 5631.0, 5291.0, 5527.0, 5476.0, 5423.0, 5318.0, 5259.0, 5332.0, 5413.0, 5381.0, 5564.0, 5679.0, 5398.0, 5395.0, 5333.0, 5595.0, 5434.0, 5424.0, 5334.0, 5414.0, 5652.0, 5714.0, 5636.0, 5435.0, 5534.0, 5427.0, 5415.0, 5279.0, 5575.0, 5504.0, 5514.0, 5713.0, 5625.0, 5539.0, 5489.0, 5459.0, 5406.0, 5482.0, 5540.0, 5584.0, 5518.0, 5331.0, 5471.0, 5626.0, 5615.0, 5341.0, 5603.0, 5480.0, 5547.0, 5353.0, 5366.0, 5288.0, 5499.0, 5524.0, 5385.0, 5336.0, 5705.0, 5538.0, 5447.0, 5354.0, 5607.0, 5541.0, 5701.0, 5397.0, 5382.0, 5293.0, 5439.0, 5721.0, 5692.0, 5457.0, 5274.0, 5596.0, 5627.0 (number of hits: 6)
3	5530	9	1	333	1	5457.0, 5336.0, 5603.0, 5262.0, 5579.0, 5340.0, 5428.0, 5643.0, 5470.0, 5277.0, 5455.0, 5597.0, 5672.0, 5297.0, 5496.0, 5491.0, 5498.0, 5538.0, 5487.0, 5539.0, 5392.0, 5500.0, 5375.0, 5671.0, 5545.0, 5720.0, 5657.0, 5564.0, 5444.0, 5335.0, 5383.0, 5519.0, 5534.0, 5315.0, 5373.0, 5536.0, 5481.0, 5530.0, 5711.0, 5366.0, 5700.0, 5586.0, 5473.0, 5286.0, 5256.0,

						5698.0, 5573.0, 5688.0, 5294.0, 5554.0, 5571.0, 5419.0, 5480.0, 5423.0, 5306.0, 5686.0, 5560.0, 5648.0, 5668.0, 5537.0, 5371.0, 5583.0, 5482.0, 5264.0, 5568.0, 5589.0, 5390.0, 5301.0, 5619.0, 5386.0, 5637.0, 5683.0, 5582.0, 5501.0, 5518.0, 5505.0, 5679.0, 5458.0, 5409.0, 5365.0, 5682.0, 5531.0, 5547.0, 5625.0, 5642.0, 5349.0, 5404.0, 5372.0, 5656.0, 5690.0, 5652.0, 5511.0, 5377.0, 5629.0, 5312.0, 5431.0, 5395.0, 5250.0, 5321.0, 5391.0 (number of hits: 6)
4	5530	9	1	333	1	5578.0, 5700.0, 5541.0, 5563.0, 5346.0, 5315.0, 5304.0, 5651.0, 5613.0, 5557.0, 5535.0, 5587.0, 5622.0, 5668.0, 5316.0, 5677.0, 5561.0, 5533.0, 5655.0, 5717.0, 5646.0, 5378.0, 5474.0, 5572.0, 5264.0, 5628.0, 5363.0, 5510.0, 5278.0, 5422.0, 5423.0, 5419.0, 5411.0, 5643.0, 5596.0, 5295.0, 5288.0, 5695.0, 5642.0, 5559.0, 5715.0, 5434.0, 5631.0, 5652.0, 5291.0, 5521.0, 5303.0, 5438.0, 5294.0, 5428.0, 5348.0, 5481.0, 5323.0, 5469.0, 5409.0, 5674.0, 5575.0, 5650.0, 5344.0, 5389.0, 5571.0, 5579.0, 5491.0, 5352.0, 5406.0, 5279.0, 5379.0, 5648.0, 5716.0, 5553.0, 5550.0, 5455.0, 5640.0, 5514.0, 5545.0, 5564.0, 5286.0, 5635.0, 5297.0, 5567.0, 5520.0, 5366.0, 5682.0, 5414.0, 5530.0, 5617.0, 5698.0, 5488.0, 5633.0, 5566.0, 5330.0, 5373.0, 5328.0, 5540.0, 5253.0, 5465.0, 5630.0, 5658.0, 5332.0, 5341.0 (number of hits: 8)
5	5530	9	1	333	1	5440.0, 5311.0, 5607.0, 5575.0, 5296.0, 5407.0, 5601.0, 5441.0, 5256.0, 5423.0, 5502.0, 5602.0, 5558.0, 5528.0, 5509.0, 5623.0, 5350.0, 5719.0, 5400.0, 5480.0, 5394.0, 5650.0, 5391.0, 5570.0, 5254.0, 5373.0, 5288.0, 5590.0, 5611.0, 5343.0, 5395.0, 5524.0, 5289.0, 5537.0, 5705.0, 5367.0, 5459.0, 5293.0, 5681.0, 5672.0, 5685.0, 5251.0, 5492.0, 5429.0, 5503.0, 5327.0, 5267.0, 5720.0, 5567.0, 5366.0, 5477.0, 5557.0, 5382.0, 5351.0, 5305.0, 5595.0, 5723.0, 5686.0, 5665.0, 5618.0, 5328.0, 5308.0, 5258.0, 5398.0, 5664.0, 5339.0, 5599.0, 5471.0, 5282.0, 5445.0, 5568.0, 5345.0, 5553.0, 5263.0, 5304.0, 5482.0, 5554.0, 5695.0, 5268.0, 5499.0, 5687.0, 5405.0, 5404.0, 5312.0, 5380.0, 5406.0, 5550.0, 5336.0, 5465.0, 5718.0, 5460.0, 5446.0, 5285.0, 5682.0, 5536.0, 5647.0, 5354.0, 5393.0, 5286.0, 5402.0 (number of hits: 11)
6	5530	9	1	333	1	5280.0, 5701.0, 5682.0, 5495.0, 5404.0, 5560.0, 5356.0, 5371.0, 5364.0, 5550.0, 5348.0, 5623.0, 5333.0, 5391.0, 5595.0,

						5669.0, 5460.0, 5621.0, 5628.0, 5419.0, 5437.0, 5709.0, 5620.0, 5310.0, 5355.0, 5613.0, 5268.0, 5253.0, 5668.0, 5269.0, 5641.0, 5665.0, 5574.0, 5452.0, 5369.0, 5525.0, 5511.0, 5587.0, 5619.0, 5296.0, 5646.0, 5381.0, 5392.0, 5302.0, 5435.0, 5606.0, 5712.0, 5354.0, 5361.0, 5492.0, 5699.0, 5638.0, 5618.0, 5393.0, 5440.0, 5330.0, 5258.0, 5603.0, 5417.0, 5514.0, 5501.0, 5418.0, 5357.0, 5647.0, 5524.0, 5270.0, 5376.0, 5482.0, 5306.0, 5359.0, 5345.0, 5491.0, 5673.0, 5331.0, 5259.0, 5312.0, 5592.0, 5468.0, 5703.0, 5454.0, 5323.0, 5652.0, 5281.0, 5637.0, 5561.0, 5523.0, 5274.0, 5457.0, 5411.0, 5581.0, 5693.0, 5453.0, 5541.0, 5432.0, 5438.0, 5329.0, 5412.0, 5664.0, 5487.0, 5470.0 (number of hits: 5)
7	5530	9	1	333	1	5554.0, 5620.0, 5533.0, 5342.0, 5666.0, 5461.0, 5603.0, 5550.0, 5299.0, 5320.0, 5516.0, 5605.0, 5382.0, 5313.0, 5648.0, 5251.0, 5612.0, 5574.0, 5406.0, 5548.0, 5656.0, 5616.0, 5385.0, 5452.0, 5273.0, 5664.0, 5419.0, 5418.0, 5445.0, 5431.0, 5336.0, 5449.0, 5536.0, 5641.0, 5410.0, 5442.0, 5518.0, 5671.0, 5259.0, 5262.0, 5358.0, 5297.0, 5403.0, 5606.0, 5466.0, 5628.0, 5376.0, 5437.0, 5451.0, 5325.0, 5504.0, 5654.0, 5576.0, 5337.0, 5473.0, 5396.0, 5580.0, 5482.0, 5519.0, 5570.0, 5649.0, 5604.0, 5546.0, 5564.0, 5467.0, 5487.0, 5595.0, 5551.0, 5373.0, 5284.0, 5598.0, 5567.0, 5610.0, 5447.0, 5295.0, 5265.0, 5594.0, 5344.0, 5584.0, 5615.0, 5333.0, 5521.0, 5552.0, 5321.0, 5672.0, 5659.0, 5479.0, 5340.0, 5422.0, 5629.0, 5398.0, 5705.0, 5506.0, 5432.0, 5441.0, 5471.0, 5668.0, 5393.0, 5636.0, 5669.0 (number of hits: 4)
8	5530	9	1	333	1	5416.0, 5323.0, 5461.0, 5309.0, 5608.0, 5432.0, 5361.0, 5706.0, 5666.0, 5692.0, 5270.0, 5389.0, 5443.0, 5590.0, 5334.0, 5513.0, 5397.0, 5310.0, 5364.0, 5713.0, 5569.0, 5483.0, 5425.0, 5691.0, 5506.0, 5500.0, 5391.0, 5708.0, 5436.0, 5640.0, 5601.0, 5420.0, 5700.0, 5299.0, 5544.0, 5497.0, 5289.0, 5355.0, 5587.0, 5284.0, 5326.0, 5274.0, 5567.0, 5519.0, 5589.0, 5302.0, 5712.0, 5600.0, 5347.0, 5704.0, 5431.0, 5699.0, 5671.0, 5316.0, 5665.0, 5291.0, 5515.0, 5435.0, 5372.0, 5491.0, 5332.0, 5325.0, 5377.0, 5595.0, 5652.0, 5664.0, 5453.0, 5531.0, 5635.0, 5378.0, 5428.0, 5319.0, 5329.0, 5340.0, 5360.0, 5421.0, 5357.0, 5374.0, 5494.0, 5273.0, 5717.0, 5454.0, 5576.0, 5670.0, 5696.0, 5541.0, 5584.0, 5493.0, 5265.0, 5561.0,

						5479.0, 5564.0, 5570.0, 5271.0, 5277.0, 5333.0, 5258.0, 5689.0, 5296.0, 5588.0 (number of hits: 7)
9	5530	9	1	333	1	5690.0, 5298.0, 5303.0, 5451.0, 5375.0, 5292.0, 5427.0, 5568.0, 5405.0, 5493.0, 5475.0, 5336.0, 5257.0, 5253.0, 5638.0, 5658.0, 5578.0, 5432.0, 5616.0, 5527.0, 5401.0, 5365.0, 5597.0, 5420.0, 5676.0, 5504.0, 5402.0, 5278.0, 5338.0, 5709.0, 5630.0, 5435.0, 5452.0, 5348.0, 5484.0, 5277.0, 5473.0, 5679.0, 5333.0, 5311.0, 5668.0, 5423.0, 5251.0, 5397.0, 5470.0, 5355.0, 5455.0, 5719.0, 5458.0, 5657.0, 5295.0, 5291.0, 5639.0, 5548.0, 5606.0, 5261.0, 5581.0, 5592.0, 5531.0, 5577.0, 5609.0, 5350.0, 5640.0, 5331.0, 5695.0, 5686.0, 5688.0, 5563.0, 5497.0, 5544.0, 5334.0, 5520.0, 5529.0, 5601.0, 5595.0, 5554.0, 5691.0, 5310.0, 5377.0, 5694.0, 5358.0, 5612.0, 5444.0, 5674.0, 5264.0, 5697.0, 5620.0, 5359.0, 5276.0, 5390.0, 5705.0, 5476.0, 5306.0, 5722.0, 5490.0, 5508.0, 5414.0, 5596.0, 5313.0, 5399.0 (number of hits: 9)
10	5530	9	1	333	1	5612.0, 5410.0, 5367.0, 5264.0, 5381.0, 5719.0, 5331.0, 5391.0, 5436.0, 5484.0, 5343.0, 5423.0, 5646.0, 5340.0, 5458.0, 5697.0, 5329.0, 5607.0, 5601.0, 5594.0, 5412.0, 5703.0, 5464.0, 5256.0, 5712.0, 5468.0, 5325.0, 5590.0, 5724.0, 5386.0, 5667.0, 5441.0, 5389.0, 5344.0, 5528.0, 5497.0, 5510.0, 5491.0, 5502.0, 5559.0, 5439.0, 5396.0, 5374.0, 5405.0, 5351.0, 5660.0, 5320.0, 5353.0, 5624.0, 5611.0, 5627.0, 5524.0, 5688.0, 5506.0, 5661.0, 5636.0, 5714.0, 5417.0, 5721.0, 5500.0, 5620.0, 5675.0, 5623.0, 5674.0, 5424.0, 5718.0, 5426.0, 5515.0, 5617.0, 5593.0, 5292.0, 5494.0, 5669.0, 5619.0, 5407.0, 5600.0, 5700.0, 5654.0, 5304.0, 5377.0, 5448.0, 5291.0, 5659.0, 5338.0, 5706.0, 5485.0, 5537.0, 5287.0, 5263.0, 5319.0, 5522.0, 5686.0, 5433.0, 5266.0, 5630.0, 5672.0, 5545.0, 5606.0, 5460.0, 5628.0 (number of hits: 4)
11	5530	9	1	333	1	5445.0, 5479.0, 5364.0, 5555.0, 5670.0, 5614.0, 5380.0, 5317.0, 5408.0, 5298.0, 5613.0, 5297.0, 5558.0, 5645.0, 5526.0, 5289.0, 5390.0, 5660.0, 5610.0, 5588.0, 5682.0, 5443.0, 5552.0, 5562.0, 5524.0, 5292.0, 5265.0, 5490.0, 5639.0, 5409.0, 5638.0, 5384.0, 5541.0, 5724.0, 5452.0, 5680.0, 5263.0, 5501.0, 5556.0, 5434.0, 5581.0, 5560.0, 5607.0, 5561.0, 5517.0, 5473.0, 5573.0, 5462.0, 5507.0, 5295.0, 5534.0, 5463.0, 5693.0, 5715.0, 5687.0, 5612.0, 5545.0, 5698.0, 5519.0, 5385.0,

						5651.0, 5358.0, 5649.0, 5664.0, 5599.0, 5722.0, 5456.0, 5593.0, 5451.0, 5310.0, 5423.0, 5301.0, 5513.0, 5662.0, 5403.0, 5553.0, 5311.0, 5508.0, 5706.0, 5591.0, 5276.0, 5417.0, 5493.0, 5404.0, 5641.0, 5567.0, 5283.0, 5336.0, 5253.0, 5355.0, 5627.0, 5287.0, 5539.0, 5480.0, 5668.0, 5566.0, 5575.0, 5430.0, 5383.0, 5536.0 (number of hits: 9)
12	5530	9	1	333	1	5310.0, 5454.0, 5331.0, 5487.0, 5691.0, 5423.0, 5546.0, 5661.0, 5346.0, 5390.0, 5713.0, 5277.0, 5534.0, 5257.0, 5502.0, 5527.0, 5545.0, 5392.0, 5635.0, 5486.0, 5367.0, 5674.0, 5467.0, 5515.0, 5415.0, 5363.0, 5360.0, 5404.0, 5278.0, 5697.0, 5490.0, 5342.0, 5593.0, 5647.0, 5391.0, 5475.0, 5584.0, 5680.0, 5469.0, 5621.0, 5350.0, 5409.0, 5425.0, 5707.0, 5596.0, 5586.0, 5539.0, 5689.0, 5411.0, 5498.0, 5684.0, 5712.0, 5548.0, 5380.0, 5343.0, 5424.0, 5371.0, 5332.0, 5389.0, 5672.0, 5430.0, 5673.0, 5344.0, 5351.0, 5656.0, 5429.0, 5347.0, 5322.0, 5583.0, 5556.0, 5319.0, 5542.0, 5256.0, 5394.0, 5581.0, 5446.0, 5453.0, 5670.0, 5280.0, 5374.0, 5550.0, 5433.0, 5297.0, 5681.0, 5441.0, 5308.0, 5686.0, 5273.0, 5291.0, 5648.0, 5461.0, 5602.0, 5603.0, 5261.0, 5719.0, 5682.0, 5417.0, 5452.0, 5657.0, 5580.0 (number of hits: 4)
13	5530	9	1	333	1	5378.0, 5564.0, 5340.0, 5277.0, 5452.0, 5585.0, 5513.0, 5250.0, 5443.0, 5510.0, 5723.0, 5676.0, 5646.0, 5637.0, 5267.0, 5253.0, 5371.0, 5446.0, 5462.0, 5534.0, 5386.0, 5430.0, 5628.0, 5406.0, 5503.0, 5703.0, 5342.0, 5593.0, 5377.0, 5258.0, 5379.0, 5412.0, 5528.0, 5655.0, 5327.0, 5669.0, 5375.0, 5523.0, 5260.0, 5505.0, 5717.0, 5617.0, 5599.0, 5698.0, 5275.0, 5641.0, 5579.0, 5692.0, 5368.0, 5619.0, 5330.0, 5657.0, 5563.0, 5276.0, 5438.0, 5387.0, 5266.0, 5322.0, 5588.0, 5567.0, 5280.0, 5293.0, 5313.0, 5522.0, 5590.0, 5420.0, 5380.0, 5256.0, 5401.0, 5702.0, 5356.0, 5395.0, 5332.0, 5488.0, 5608.0, 5361.0, 5650.0, 5403.0, 5533.0, 5595.0, 5381.0, 5573.0, 5283.0, 5582.0, 5445.0, 5408.0, 5459.0, 5388.0, 5348.0, 5712.0, 5404.0, 5417.0, 5518.0, 5571.0, 5366.0, 5618.0, 5606.0, 5423.0, 5421.0, 5681.0 (number of hits: 2)
14	5530	9	1	333	1	5480.0, 5251.0, 5583.0, 5667.0, 5641.0, 5285.0, 5614.0, 5432.0, 5253.0, 5661.0, 5581.0, 5322.0, 5544.0, 5430.0, 5465.0, 5522.0, 5437.0, 5265.0, 5493.0, 5723.0, 5652.0, 5530.0, 5410.0, 5472.0, 5482.0, 5316.0, 5665.0, 5556.0, 5698.0, 5481.0,

						5411.0, 5407.0, 5328.0, 5453.0, 5336.0, 5326.0, 5359.0, 5324.0, 5252.0, 5668.0, 5520.0, 5670.0, 5710.0, 5535.0, 5287.0, 5355.0, 5724.0, 5307.0, 5423.0, 5344.0, 5315.0, 5390.0, 5377.0, 5378.0, 5600.0, 5306.0, 5525.0, 5560.0, 5292.0, 5677.0, 5629.0, 5386.0, 5644.0, 5675.0, 5420.0, 5364.0, 5393.0, 5469.0, 5633.0, 5676.0, 5358.0, 5283.0, 5645.0, 5651.0, 5657.0, 5282.0, 5361.0, 5337.0, 5398.0, 5514.0, 5384.0, 5260.0, 5647.0, 5532.0, 5591.0, 5484.0, 5708.0, 5261.0, 5617.0, 5391.0, 5341.0, 5294.0, 5578.0, 5417.0, 5310.0, 5347.0, 5594.0, 5401.0, 5434.0, 5352.0 (number of hits: 7)
15	5530	9	1	333	1	5422.0, 5356.0, 5566.0, 5483.0, 5525.0, 5580.0, 5331.0, 5679.0, 5366.0, 5489.0, 5488.0, 5680.0, 5390.0, 5389.0, 5555.0, 5365.0, 5614.0, 5589.0, 5610.0, 5355.0, 5307.0, 5578.0, 5696.0, 5574.0, 5558.0, 5468.0, 5395.0, 5641.0, 5669.0, 5624.0, 5267.0, 5276.0, 5378.0, 5629.0, 5455.0, 5438.0, 5492.0, 5623.0, 5420.0, 5388.0, 5266.0, 5663.0, 5690.0, 5545.0, 5385.0, 5464.0, 5509.0, 5685.0, 5409.0, 5590.0, 5603.0, 5543.0, 5655.0, 5537.0, 5467.0, 5371.0, 5273.0, 5718.0, 5531.0, 5520.0, 5401.0, 5394.0, 5606.0, 5524.0, 5517.0, 5280.0, 5416.0, 5429.0, 5616.0, 5716.0, 5626.0, 5480.0, 5470.0, 5479.0, 5647.0, 5261.0, 5659.0, 5643.0, 5497.0, 5343.0, 5361.0, 5317.0, 5360.0, 5393.0, 5672.0, 5575.0, 5617.0, 5364.0, 5485.0, 5428.0, 5431.0, 5450.0, 5283.0, 5684.0, 5415.0, 5704.0, 5660.0, 5318.0, 5268.0, 5397.0 (number of hits: 1)
16	5530	9	1	333	1	5439.0, 5671.0, 5593.0, 5397.0, 5393.0, 5572.0, 5700.0, 5319.0, 5624.0, 5293.0, 5271.0, 5710.0, 5635.0, 5483.0, 5272.0, 5427.0, 5562.0, 5250.0, 5430.0, 5557.0, 5368.0, 5715.0, 5534.0, 5662.0, 5457.0, 5488.0, 5631.0, 5367.0, 5682.0, 5291.0, 5310.0, 5629.0, 5549.0, 5606.0, 5314.0, 5379.0, 5701.0, 5305.0, 5592.0, 5698.0, 5402.0, 5721.0, 5301.0, 5455.0, 5632.0, 5627.0, 5644.0, 5591.0, 5431.0, 5254.0, 5303.0, 5410.0, 5516.0, 5707.0, 5552.0, 5341.0, 5419.0, 5655.0, 5594.0, 5485.0, 5252.0, 5465.0, 5669.0, 5441.0, 5436.0, 5281.0, 5353.0, 5362.0, 5265.0, 5541.0, 5435.0, 5542.0, 5582.0, 5558.0, 5306.0, 5361.0, 5666.0, 5356.0, 5521.0, 5619.0, 5676.0, 5355.0, 5604.0, 5418.0, 5683.0, 5323.0, 5428.0, 5578.0, 5401.0, 5695.0, 5530.0, 5390.0, 5464.0, 5546.0, 5442.0, 5515.0, 5688.0, 5458.0, 5665.0, 5654.0 (number of hits: 8)

17	5530	9	1	333	1	5706.0, 5611.0, 5407.0, 5574.0, 5556.0, 5666.0, 5615.0, 5561.0, 5484.0, 5430.0, 5429.0, 5393.0, 5537.0, 5404.0, 5500.0, 5662.0, 5269.0, 5619.0, 5640.0, 5700.0, 5328.0, 5649.0, 5388.0, 5445.0, 5344.0, 5562.0, 5646.0, 5311.0, 5437.0, 5283.0, 5377.0, 5663.0, 5703.0, 5579.0, 5275.0, 5652.0, 5507.0, 5368.0, 5512.0, 5322.0, 5359.0, 5593.0, 5658.0, 5492.0, 5630.0, 5713.0, 5502.0, 5288.0, 5270.0, 5433.0, 5601.0, 5581.0, 5298.0, 5309.0, 5273.0, 5380.0, 5458.0, 5342.0, 5457.0, 5421.0, 5355.0, 5349.0, 5534.0, 5550.0, 5684.0, 5464.0, 5360.0, 5642.0, 5608.0, 5397.0, 5590.0, 5449.0, 5496.0, 5300.0, 5396.0, 5607.0, 5480.0, 5302.0, 5546.0, 5714.0, 5361.0, 5549.0, 5578.0, 5544.0, 5354.0, 5370.0, 5443.0, 5255.0, 5682.0, 5358.0, 5568.0, 5516.0, 5291.0, 5448.0, 5518.0, 5521.0, 5324.0, 5674.0, 5339.0, 5352.0 (number of hits: 7)
18	5530	9	1	333	1	5712.0, 5409.0, 5522.0, 5346.0, 5355.0, 5568.0, 5262.0, 5261.0, 5479.0, 5630.0, 5422.0, 5369.0, 5495.0, 5436.0, 5521.0, 5296.0, 5340.0, 5543.0, 5417.0, 5285.0, 5505.0, 5418.0, 5498.0, 5601.0, 5646.0, 5643.0, 5421.0, 5537.0, 5560.0, 5397.0, 5531.0, 5668.0, 5652.0, 5337.0, 5637.0, 5442.0, 5435.0, 5268.0, 5536.0, 5697.0, 5700.0, 5696.0, 5461.0, 5375.0, 5264.0, 5256.0, 5376.0, 5263.0, 5687.0, 5516.0, 5520.0, 5554.0, 5583.0, 5307.0, 5443.0, 5459.0, 5358.0, 5439.0, 5678.0, 5701.0, 5255.0, 5612.0, 5344.0, 5609.0, 5394.0, 5330.0, 5680.0, 5573.0, 5351.0, 5638.0, 5352.0, 5501.0, 5651.0, 5334.0, 5686.0, 5492.0, 5632.0, 5502.0, 5410.0, 5386.0, 5468.0, 5353.0, 5574.0, 5449.0, 5455.0, 5572.0, 5545.0, 5631.0, 5515.0, 5544.0, 5621.0, 5532.0, 5471.0, 5614.0, 5402.0, 5432.0, 5549.0, 5391.0, 5380.0, 5304.0 (number of hits: 4)
19	5530	9	1	333	1	5627.0, 5484.0, 5464.0, 5275.0, 5642.0, 5291.0, 5554.0, 5452.0, 5621.0, 5376.0, 5609.0, 5491.0, 5287.0, 5426.0, 5527.0, 5254.0, 5572.0, 5330.0, 5269.0, 5390.0, 5519.0, 5549.0, 5492.0, 5309.0, 5611.0, 5292.0, 5571.0, 5284.0, 5685.0, 5413.0, 5295.0, 5590.0, 5646.0, 5462.0, 5293.0, 5305.0, 5331.0, 5296.0, 5703.0, 5394.0, 5260.0, 5407.0, 5469.0, 5282.0, 5511.0, 5375.0, 5705.0, 5686.0, 5607.0, 5630.0, 5256.0, 5476.0, 5383.0, 5278.0, 5414.0, 5408.0, 5458.0, 5412.0, 5708.0, 5701.0, 5304.0, 5644.0, 5438.0, 5529.0, 5679.0, 5477.0, 5647.0, 5299.0, 5449.0, 5498.0, 5370.0, 5660.0, 5649.0, 5504.0, 5315.0,

						5328.0, 5681.0, 5640.0, 5472.0, 5416.0, 5457.0, 5719.0, 5682.0, 5415.0, 5489.0, 5716.0, 5672.0, 5388.0, 5311.0, 5613.0, 5493.0, 5563.0, 5721.0, 5608.0, 5548.0, 5618.0, 5583.0, 5532.0, 5670.0, 5429.0 (number of hits: 11)
20	5530	9	1	333	1	5352.0, 5536.0, 5340.0, 5466.0, 5677.0, 5479.0, 5465.0, 5282.0, 5395.0, 5323.0, 5431.0, 5644.0, 5422.0, 5283.0, 5504.0, 5684.0, 5309.0, 5530.0, 5270.0, 5586.0, 5306.0, 5667.0, 5637.0, 5259.0, 5622.0, 5508.0, 5346.0, 5711.0, 5548.0, 5412.0, 5312.0, 5691.0, 5342.0, 5538.0, 5660.0, 5281.0, 5413.0, 5392.0, 5517.0, 5501.0, 5706.0, 5337.0, 5558.0, 5720.0, 5406.0, 5575.0, 5525.0, 5350.0, 5372.0, 5663.0, 5297.0, 5364.0, 5585.0, 5519.0, 5532.0, 5399.0, 5414.0, 5447.0, 5661.0, 5527.0, 5699.0, 5375.0, 5553.0, 5722.0, 5434.0, 5683.0, 5609.0, 5566.0, 5438.0, 5368.0, 5264.0, 5458.0, 5576.0, 5594.0, 5712.0, 5509.0, 5550.0, 5487.0, 5390.0, 5659.0, 5689.0, 5606.0, 5254.0, 5279.0, 5388.0, 5343.0, 5641.0, 5664.0, 5367.0, 5495.0, 5411.0, 5453.0, 5616.0, 5635.0, 5607.0, 5311.0, 5443.0, 5529.0, 5543.0, 5275.0 (number of hits: 5)
21	5530	9	1	333	1	5652.0, 5419.0, 5666.0, 5325.0, 5269.0, 5450.0, 5627.0, 5407.0, 5477.0, 5403.0, 5629.0, 5338.0, 5280.0, 5332.0, 5596.0, 5365.0, 5394.0, 5358.0, 5597.0, 5270.0, 5540.0, 5488.0, 5456.0, 5308.0, 5705.0, 5309.0, 5318.0, 5639.0, 5396.0, 5467.0, 5337.0, 5417.0, 5253.0, 5444.0, 5657.0, 5704.0, 5283.0, 5508.0, 5390.0, 5433.0, 5406.0, 5601.0, 5339.0, 5405.0, 5569.0, 5272.0, 5293.0, 5521.0, 5623.0, 5692.0, 5513.0, 5451.0, 5328.0, 5589.0, 5520.0, 5468.0, 5517.0, 5305.0, 5257.0, 5368.0, 5382.0, 5487.0, 5700.0, 5534.0, 5259.0, 5418.0, 5360.0, 5415.0, 5724.0, 5618.0, 5435.0, 5575.0, 5294.0, 5300.0, 5285.0, 5698.0, 5374.0, 5547.0, 5679.0, 5447.0, 5458.0, 5707.0, 5586.0, 5541.0, 5607.0, 5697.0, 5701.0, 5496.0, 5279.0, 5552.0, 5506.0, 5617.0, 5425.0, 5442.0, 5266.0, 5673.0, 5301.0, 5258.0, 5625.0, 5714.0 (number of hits: 8)
22	5530	9	1	333	1	5663.0, 5421.0, 5451.0, 5275.0, 5555.0, 5427.0, 5679.0, 5689.0, 5268.0, 5423.0, 5629.0, 5686.0, 5355.0, 5526.0, 5521.0, 5299.0, 5678.0, 5525.0, 5606.0, 5664.0, 5700.0, 5319.0, 5517.0, 5391.0, 5616.0, 5630.0, 5424.0, 5292.0, 5379.0, 5603.0, 5708.0, 5571.0, 5561.0, 5701.0, 5296.0, 5467.0, 5258.0, 5348.0, 5554.0, 5568.0, 5450.0, 5329.0, 5287.0, 5693.0, 5340.0,

						5542.0, 5545.0, 5583.0, 5343.0, 5530.0, 5722.0, 5632.0, 5410.0, 5490.0, 5394.0, 5592.0, 5610.0, 5656.0, 5635.0, 5652.0, 5318.0, 5579.0, 5382.0, 5365.0, 5346.0, 5325.0, 5387.0, 5580.0, 5352.0, 5621.0, 5501.0, 5375.0, 5699.0, 5331.0, 5569.0, 5430.0, 5443.0, 5609.0, 5425.0, 5538.0, 5556.0, 5266.0, 5274.0, 5288.0, 5637.0, 5301.0, 5282.0, 5320.0, 5376.0, 5418.0, 5591.0, 5643.0, 5544.0, 5316.0, 5543.0, 5671.0, 5383.0, 5445.0, 5607.0, 5518.0 (number of hits: 6)
23	5530	9	1	333	1	5681.0, 5546.0, 5453.0, 5387.0, 5341.0, 5700.0, 5656.0, 5600.0, 5270.0, 5377.0, 5532.0, 5291.0, 5349.0, 5487.0, 5254.0, 5555.0, 5525.0, 5706.0, 5683.0, 5302.0, 5454.0, 5703.0, 5422.0, 5628.0, 5692.0, 5266.0, 5713.0, 5463.0, 5522.0, 5394.0, 5417.0, 5316.0, 5441.0, 5351.0, 5510.0, 5445.0, 5255.0, 5332.0, 5535.0, 5513.0, 5365.0, 5438.0, 5374.0, 5647.0, 5677.0, 5669.0, 5655.0, 5386.0, 5680.0, 5400.0, 5458.0, 5636.0, 5330.0, 5378.0, 5611.0, 5342.0, 5585.0, 5657.0, 5673.0, 5428.0, 5497.0, 5527.0, 5606.0, 5572.0, 5455.0, 5286.0, 5381.0, 5469.0, 5641.0, 5433.0, 5459.0, 5701.0, 5619.0, 5259.0, 5666.0, 5358.0, 5353.0, 5493.0, 5360.0, 5563.0, 5630.0, 5690.0, 5362.0, 5252.0, 5443.0, 5654.0, 5367.0, 5662.0, 5468.0, 5410.0, 5352.0, 5310.0, 5364.0, 5294.0, 5653.0, 5423.0, 5672.0, 5705.0, 5686.0, 5339.0 (number of hits: 5)
24	5530	9	1	333	1	5344.0, 5531.0, 5456.0, 5320.0, 5471.0, 5714.0, 5392.0, 5500.0, 5281.0, 5343.0, 5570.0, 5315.0, 5584.0, 5472.0, 5510.0, 5503.0, 5389.0, 5723.0, 5327.0, 5568.0, 5550.0, 5411.0, 5678.0, 5575.0, 5580.0, 5275.0, 5569.0, 5253.0, 5576.0, 5591.0, 5672.0, 5525.0, 5675.0, 5428.0, 5424.0, 5545.0, 5676.0, 5384.0, 5699.0, 5512.0, 5535.0, 5701.0, 5630.0, 5271.0, 5304.0, 5255.0, 5489.0, 5331.0, 5380.0, 5513.0, 5277.0, 5325.0, 5589.0, 5354.0, 5378.0, 5529.0, 5720.0, 5709.0, 5571.0, 5670.0, 5541.0, 5664.0, 5397.0, 5645.0, 5592.0, 5359.0, 5450.0, 5671.0, 5457.0, 5711.0, 5443.0, 5269.0, 5502.0, 5539.0, 5334.0, 5355.0, 5505.0, 5590.0, 5357.0, 5280.0, 5305.0, 5295.0, 5387.0, 5353.0, 5694.0, 5567.0, 5433.0, 5441.0, 5452.0, 5346.0, 5518.0, 5532.0, 5656.0, 5468.0, 5507.0, 5475.0, 5629.0, 5521.0, 5612.0, 5602.0 (number of hits: 3)
25	5530	9	1	333	1	5586.0, 5531.0, 5298.0, 5630.0, 5642.0, 5453.0, 5621.0, 5304.0, 5696.0, 5544.0, 5600.0, 5541.0, 5517.0, 5567.0, 5403.0,

						5640.0, 5614.0, 5309.0, 5492.0, 5561.0, 5430.0, 5315.0, 5316.0, 5338.0, 5502.0, 5712.0, 5301.0, 5477.0, 5436.0, 5588.0, 5365.0, 5582.0, 5643.0, 5395.0, 5579.0, 5495.0, 5363.0, 5589.0, 5374.0, 5405.0, 5313.0, 5280.0, 5428.0, 5396.0, 5357.0, 5277.0, 5441.0, 5484.0, 5289.0, 5604.0, 5711.0, 5708.0, 5415.0, 5581.0, 5550.0, 5551.0, 5416.0, 5568.0, 5265.0, 5486.0, 5699.0, 5407.0, 5397.0, 5504.0, 5537.0, 5497.0, 5364.0, 5470.0, 5308.0, 5717.0, 5419.0, 5595.0, 5658.0, 5311.0, 5423.0, 5650.0, 5352.0, 5522.0, 5456.0, 5710.0, 5439.0, 5684.0, 5370.0, 5379.0, 5501.0, 5628.0, 5302.0, 5417.0, 5647.0, 5686.0, 5632.0, 5491.0, 5468.0, 5399.0, 5394.0, 5525.0, 5576.0, 5489.0, 5297.0, 5266.0 (number of hits: 10)
26	5530	9	1	333	1	5290.0, 5347.0, 5272.0, 5615.0, 5450.0, 5686.0, 5416.0, 5341.0, 5351.0, 5538.0, 5500.0, 5330.0, 5596.0, 5313.0, 5317.0, 5359.0, 5691.0, 5685.0, 5587.0, 5427.0, 5545.0, 5513.0, 5677.0, 5630.0, 5496.0, 5699.0, 5399.0, 5720.0, 5281.0, 5374.0, 5684.0, 5453.0, 5592.0, 5698.0, 5411.0, 5393.0, 5494.0, 5526.0, 5645.0, 5658.0, 5325.0, 5619.0, 5293.0, 5405.0, 5412.0, 5560.0, 5569.0, 5646.0, 5296.0, 5331.0, 5673.0, 5633.0, 5662.0, 5626.0, 5449.0, 5477.0, 5302.0, 5373.0, 5611.0, 5712.0, 5456.0, 5362.0, 5425.0, 5473.0, 5436.0, 5590.0, 5664.0, 5342.0, 5562.0, 5628.0, 5422.0, 5674.0, 5306.0, 5378.0, 5463.0, 5668.0, 5433.0, 5484.0, 5564.0, 5715.0, 5406.0, 5328.0, 5655.0, 5311.0, 5286.0, 5649.0, 5543.0, 5445.0, 5287.0, 5533.0, 5443.0, 5575.0, 5417.0, 5520.0, 5360.0, 5486.0, 5291.0, 5389.0, 5519.0, 5637.0 (number of hits: 10)
27	5530	9	1	333	1	5465.0, 5262.0, 5411.0, 5487.0, 5281.0, 5666.0, 5299.0, 5318.0, 5265.0, 5648.0, 5686.0, 5423.0, 5375.0, 5483.0, 5480.0, 5709.0, 5297.0, 5390.0, 5332.0, 5364.0, 5672.0, 5335.0, 5610.0, 5491.0, 5317.0, 5470.0, 5474.0, 5641.0, 5662.0, 5691.0, 5331.0, 5512.0, 5527.0, 5304.0, 5583.0, 5526.0, 5260.0, 5562.0, 5604.0, 5275.0, 5495.0, 5605.0, 5403.0, 5284.0, 5542.0, 5603.0, 5450.0, 5658.0, 5343.0, 5670.0, 5645.0, 5571.0, 5559.0, 5311.0, 5421.0, 5589.0, 5630.0, 5254.0, 5701.0, 5567.0, 5557.0, 5316.0, 5263.0, 5646.0, 5696.0, 5257.0, 5688.0, 5399.0, 5368.0, 5452.0, 5616.0, 5490.0, 5396.0, 5588.0, 5638.0, 5291.0, 5446.0, 5445.0, 5358.0, 5288.0, 5345.0, 5724.0, 5515.0, 5656.0, 5357.0, 5540.0, 5269.0, 5458.0, 5710.0, 5650.0,

						5365.0, 5349.0, 5385.0, 5293.0, 5460.0, 5394.0, 5541.0, 5363.0, 5695.0, 5621.0 (number of hits: 7)
28	5530	9	1	333	1	5443.0, 5492.0, 5480.0, 5474.0, 5408.0, 5521.0, 5618.0, 5562.0, 5350.0, 5457.0, 5281.0, 5277.0, 5274.0, 5534.0, 5590.0, 5346.0, 5549.0, 5631.0, 5636.0, 5529.0, 5336.0, 5306.0, 5410.0, 5558.0, 5295.0, 5546.0, 5273.0, 5659.0, 5697.0, 5370.0, 5710.0, 5606.0, 5544.0, 5634.0, 5542.0, 5250.0, 5456.0, 5428.0, 5321.0, 5652.0, 5575.0, 5533.0, 5343.0, 5453.0, 5288.0, 5395.0, 5705.0, 5511.0, 5260.0, 5358.0, 5292.0, 5680.0, 5714.0, 5674.0, 5587.0, 5538.0, 5314.0, 5441.0, 5692.0, 5581.0, 5698.0, 5566.0, 5721.0, 5541.0, 5670.0, 5707.0, 5489.0, 5512.0, 5685.0, 5427.0, 5339.0, 5351.0, 5640.0, 5283.0, 5353.0, 5381.0, 5461.0, 5386.0, 5376.0, 5463.0, 5326.0, 5372.0, 5613.0, 5304.0, 5450.0, 5251.0, 5252.0, 5609.0, 5328.0, 5451.0, 5595.0, 5347.0, 5548.0, 5547.0, 5357.0, 5290.0, 5354.0, 5676.0, 5301.0, 5660.0 (number of hits: 8)
29	5530	9	1	333	1	5252.0, 5676.0, 5502.0, 5567.0, 5396.0, 5460.0, 5356.0, 5414.0, 5612.0, 5477.0, 5441.0, 5719.0, 5436.0, 5467.0, 5643.0, 5482.0, 5355.0, 5707.0, 5516.0, 5504.0, 5480.0, 5455.0, 5326.0, 5588.0, 5487.0, 5549.0, 5536.0, 5427.0, 5308.0, 5636.0, 5701.0, 5703.0, 5260.0, 5256.0, 5424.0, 5296.0, 5421.0, 5488.0, 5447.0, 5497.0, 5554.0, 5668.0, 5264.0, 5642.0, 5678.0, 5286.0, 5461.0, 5530.0, 5716.0, 5672.0, 5552.0, 5503.0, 5373.0, 5713.0, 5325.0, 5459.0, 5463.0, 5646.0, 5479.0, 5590.0, 5271.0, 5380.0, 5496.0, 5435.0, 5448.0, 5268.0, 5689.0, 5574.0, 5413.0, 5615.0, 5620.0, 5274.0, 5304.0, 5484.0, 5445.0, 5609.0, 5605.0, 5348.0, 5631.0, 5513.0, 5263.0, 5580.0, 5582.0, 5419.0, 5324.0, 5700.0, 5586.0, 5532.0, 5638.0, 5389.0, 5581.0, 5500.0, 5499.0, 5449.0, 5443.0, 5616.0, 5522.0, 5557.0, 5717.0, 5602.0 (number of hits: 4)
30	5530	9	1	333	1	5427.0, 5619.0, 5332.0, 5593.0, 5459.0, 5711.0, 5386.0, 5521.0, 5634.0, 5298.0, 5445.0, 5574.0, 5600.0, 5584.0, 5359.0, 5428.0, 5632.0, 5331.0, 5402.0, 5702.0, 5469.0, 5536.0, 5691.0, 5590.0, 5526.0, 5405.0, 5325.0, 5262.0, 5329.0, 5421.0, 5568.0, 5293.0, 5288.0, 5313.0, 5379.0, 5302.0, 5509.0, 5625.0, 5673.0, 5495.0, 5664.0, 5414.0, 5599.0, 5296.0, 5613.0, 5721.0, 5572.0, 5408.0, 5279.0, 5369.0, 5595.0, 5295.0, 5348.0, 5592.0, 5516.0, 5621.0, 5611.0, 5327.0, 5658.0, 5654.0,

						5675.0, 5292.0, 5547.0, 5506.0, 5452.0, 5350.0, 5373.0, 5676.0, 5340.0, 5311.0, 5511.0, 5324.0, 5351.0, 5468.0, 5429.0, 5310.0, 5480.0, 5604.0, 5441.0, 5418.0, 5419.0, 5678.0, 5720.0, 5614.0, 5501.0, 5474.0, 5486.0, 5365.0, 5682.0, 5349.0, 5630.0, 5301.0, 5698.0, 5380.0, 5603.0, 5560.0, 5490.0, 5591.0, 5446.0, 5259.0 (number of hits: 11)

10 Appendix A – Test Setup Photographs

10.1 DFS Test Setup View

11 Appendix B - EUT Photographs

11.1 Top View

11.2 EUT – Bottom View

11.3 EUT – Side View

11.4 EUT – POE Adaptor View

--- END OF REPORT ---