



FCC PART 15.407

DYNAMIC FREQUENCY SELECTION TEST AND MEASUREMENT REPORT

For

Tropos Networks, Inc.

555 Del Rey Ave., Sunnyvale, CA 94085, USA

FCC ID: P9J-645801

Report Type: Class II Permissive Change	Product Type: 802.11a/n Module
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Report Number:	R1409231-DFS Rev A
Report Date:	2015-04-17
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* This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk “*” (Rev. 10)

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	R1409231-DFS	Original Report	2015-03-10
1	R1409231-DFS Rev A	Updated Rule Parts	2015-04-17

1 General Description

1.1 Product Description for Equipment under Test (EUT)

This test and measurement report was prepared on behalf of *Tropos Networks, Inc.*, and their product model: Bluefin 5G, *FCC ID: P9J-645801* or the “EUT” (Equipment under Test) as referred to in this report. The EUT is a 2x2 MIMO 802.11a/n Wi-Fi module operates in 5 GHz UNII bands.

1.2 Mechanical Description of EUT

The EUT measures approximately 7.2 cm (L) x 5.0cm (W) x 0.1 cm (H) and weighs 15g.

The test data gathered are from typical production sample, serial number: 301317 assigned by client.

1.3 Objective

This report is prepared on behalf of *Tropos Networks, Inc.* in accordance with FCC CFR47 §15.407 (h), and KDB: 905462 D02 UNII DFS Compliance Procedures New Rules v01r01

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)

KDB: 905462 D02 UNII DFS Compliance Procedures New Rules v01r01

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=8430d44f1f47cf2996124343c704b367816b>

2 EUT Test Configuration

2.1 Justification

The EUT was configured for testing according to FCC Part 15.407(H), and KDB: 905462 D02 UNII DFS Compliance Procedures New Rules v01r01

2.2 EUT Exercise Software

The test utility used was *Atheros Radio Test 2* and was provided by *Tropos Networks, Inc.*, and was verified by Isaac Aguilar to comply with the standard requirements being tested against.

2.3 Equipment Modifications

N/A

2.4 Local Support Equipment

Manufacturer	Description	Model	Serial Number
DELL	laptop	E5430	7x4v3x1
DELL	laptop	E5430	8w4v3x1

2.5 EUT Internal Configuration Details

N/A

2.6 Interface Ports and Cables

Cable Description	Length (m)	To	From
RF Cable	< 1	Module Antenna Port	Spectrum Analyzer
CAT5e	< 1	Module RJ-45	Laptop

2.7 Power Supply List and Details

Manufacturer	Description	Model	Serial Number
Cincon Electronics	POE 48V 1.2A	TR60A-POE-L	007653

3 Summary of Test Results

The following result table represents the list of measurements required under the CFR47 §47 Part15.407 (h), and KDB: 905462 D02 UNII DFS Compliance Procedures New Rules v01r01

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

4 Applicable Standards

4.1 DFS Requirement

FCC CFR47 §15.407 (h), and KDB: 905462 D02 UNII DFS Compliance Procedures New Rules v01r01

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

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

Table 2: Applicability of DFS requirements during normal operation

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

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

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

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

Table 4: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the UNII 99% transmission power bandwidth. See Note 3.
Note 1: The instant that the <i>Channel Move Time</i> and the <i>Channel Closing Transmission Time</i> begins is as follows: • For the Short Pulse Radar Test Signals this instant is the end of the <i>Burst</i>. • For the Frequency Hopping radar Test Signal, this instant is the end of the last radar <i>Burst</i> generated. • For the Long Pulse Radar Test Signal this instant is the end of the 12 second period defining the <i>Radar Waveform</i>. Note 2: The <i>Channel Closing Transmission Time</i> is comprised of 200 milliseconds starting at the beginning of the <i>Channel Move Time</i> plus any additional intermittent control signals required to facilitate a <i>Channel</i> 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 <i>U-NII Detection Bandwidth</i> detection test, radar type 0 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
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a Test B: 15 unique PRI values randomly selected within the range of 518-3066 μ sec, with a minimum increment of 1 μ sec, excluding PRI values selected in Test A	$\text{Roundup} \left(\left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right)$	60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					

Table 6: Long Pulse Radar Test Signal

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

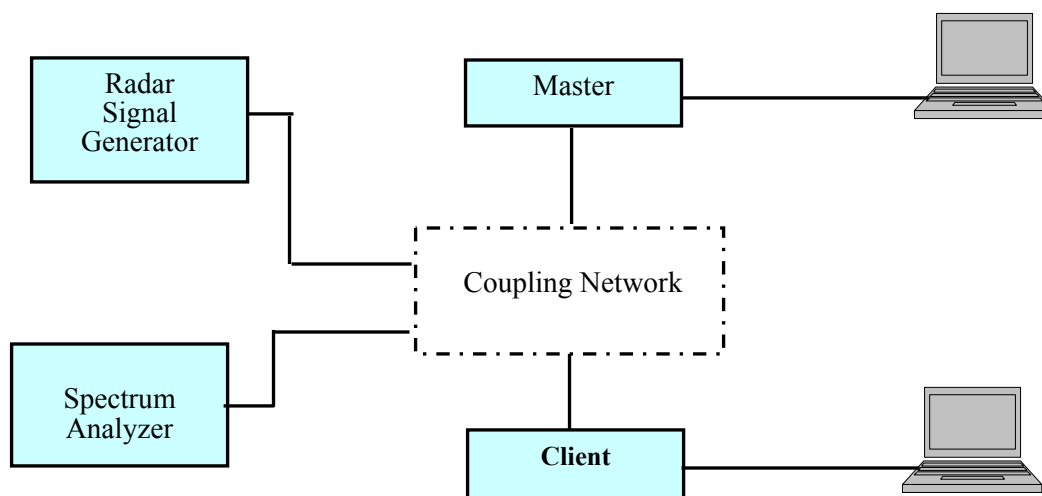
Table 7: Frequency Hopping Radar Test Signal

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

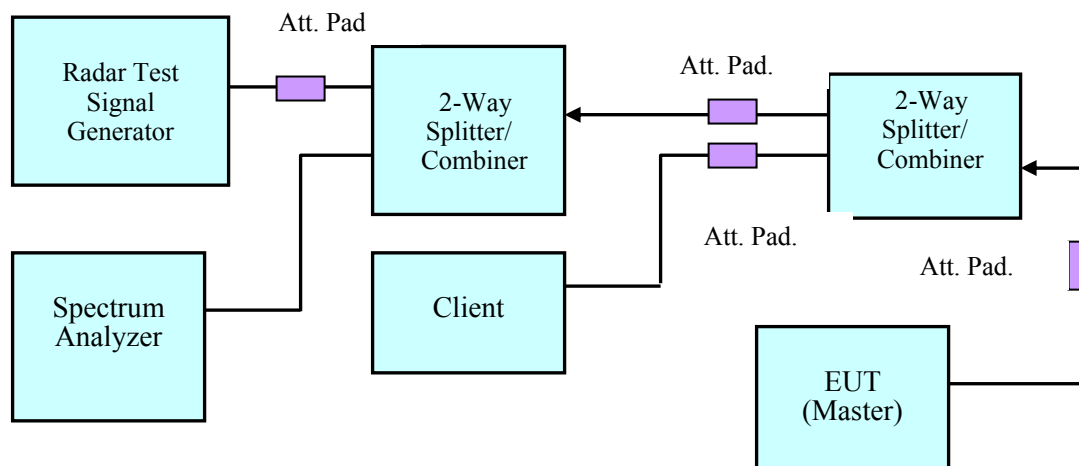
4.2 DFS Measurement System

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

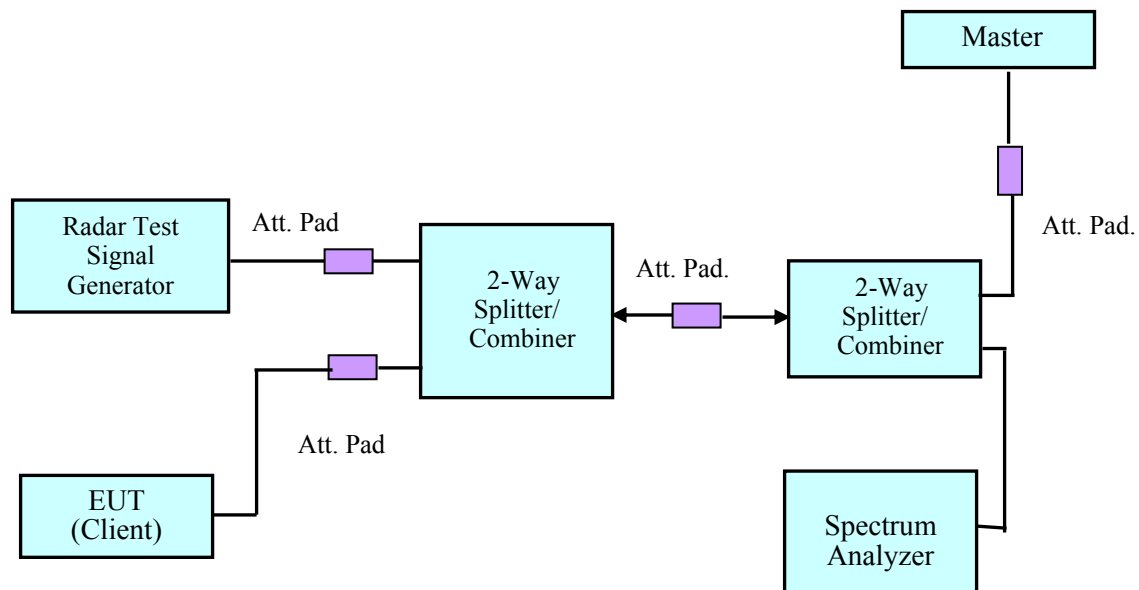
4.3 System Block Diagram



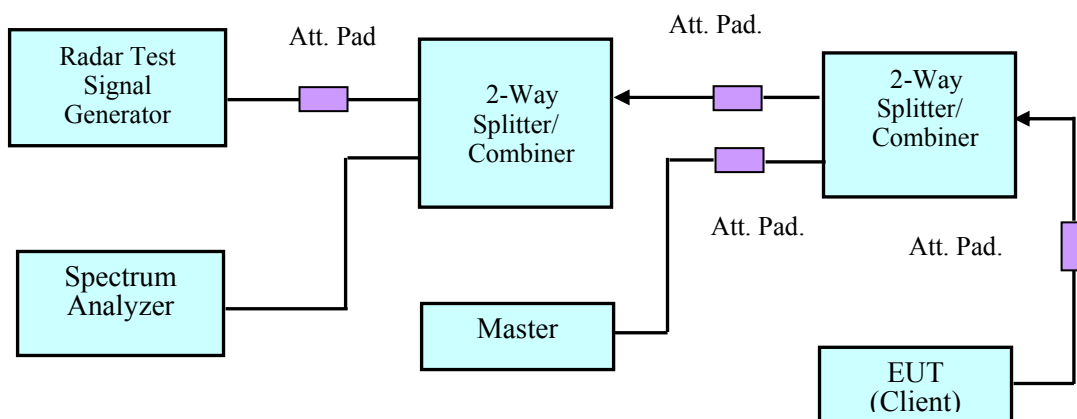
4.4 Conducted Method



Setup for Master with injection at the Master

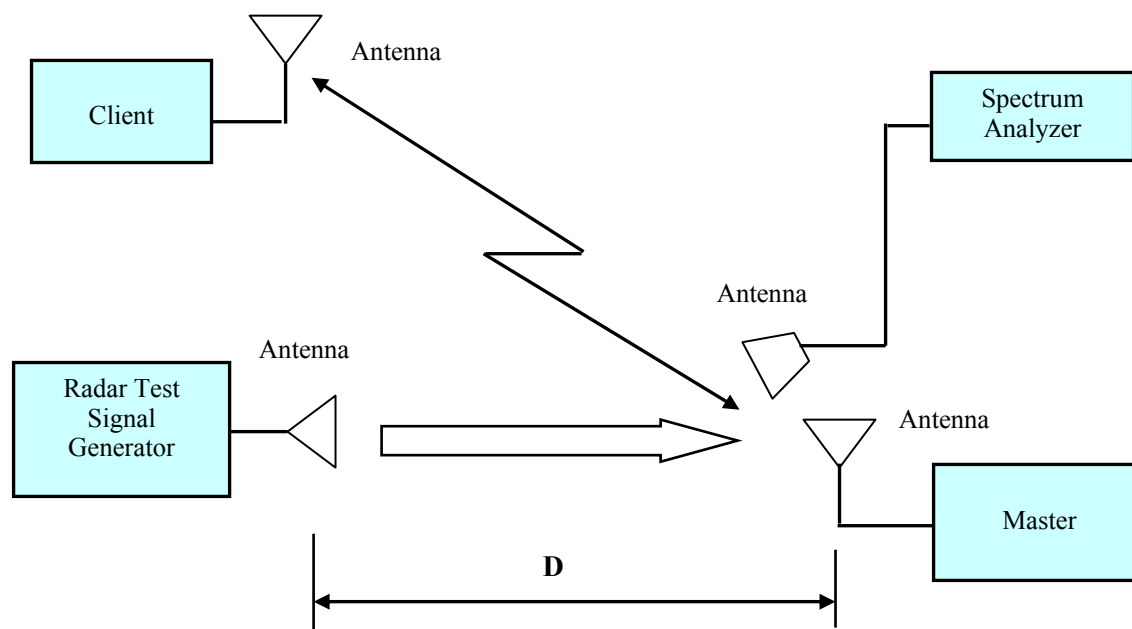


Setup for Client with injection at the Master



Setup for Client with injection at the Client

4.5 Radiated Method



4.6 Test Procedure

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

5 Test Results

5.1 Description of EUT

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

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

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

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

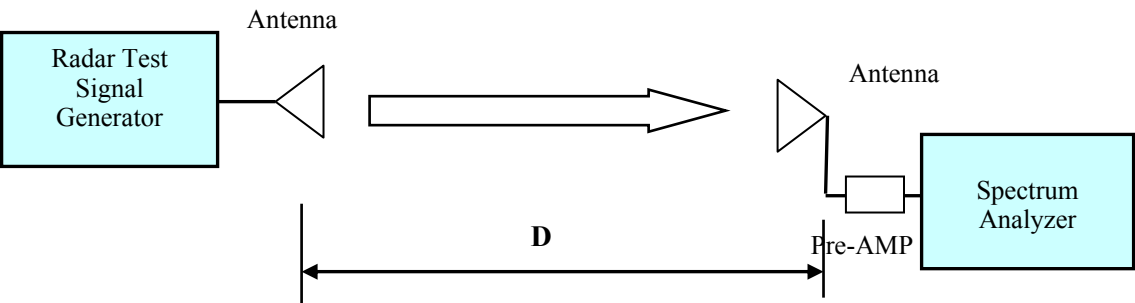
The EUT was tested with the 8 dBi gain antenna.

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	2014-08-16
A.R.A.	Antenna Horn	DRG-118/A	1132	2014-01-29
EMCO	Antenna Horn	3115	9511-4627	2014-07-17
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

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

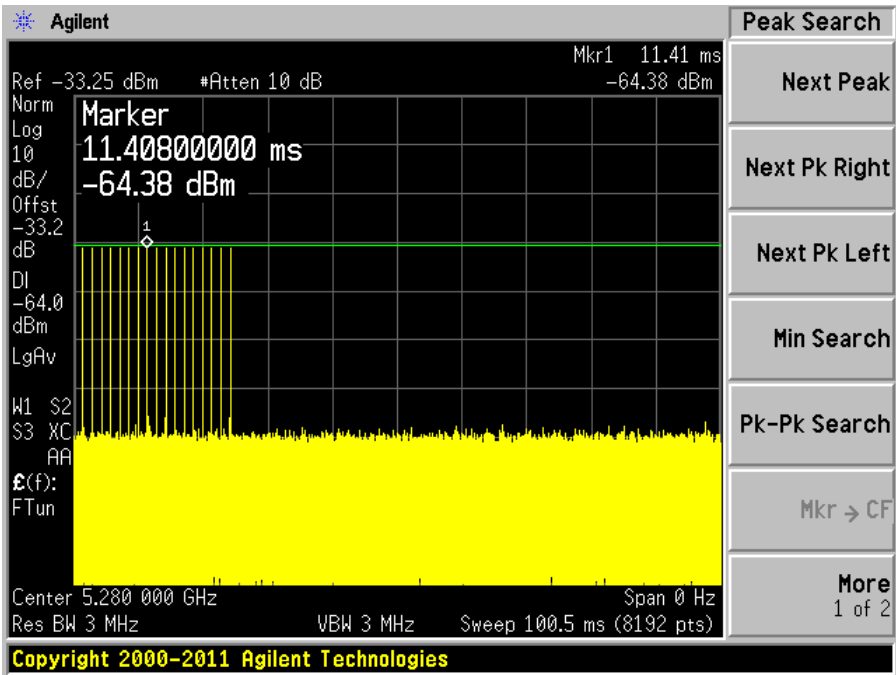
Temperature:	20-23° C
Relative Humidity:	28-33 %
ATM Pressure:	101-102 kPa

Testing performed by Chen Ge on 2014-10-16 to 2014-10-17 at DFS testing site.

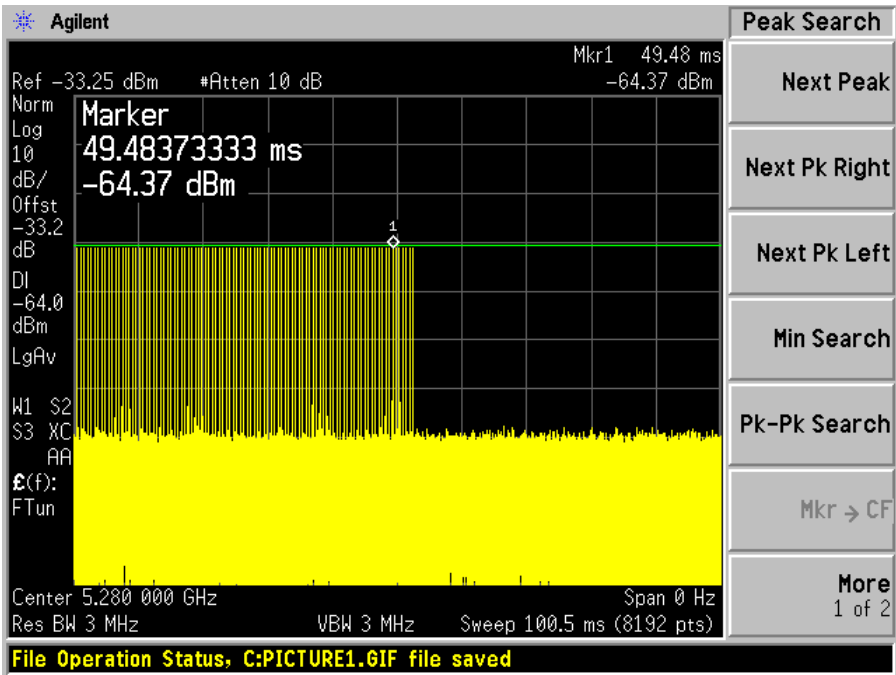
Plots of Radar Waveforms

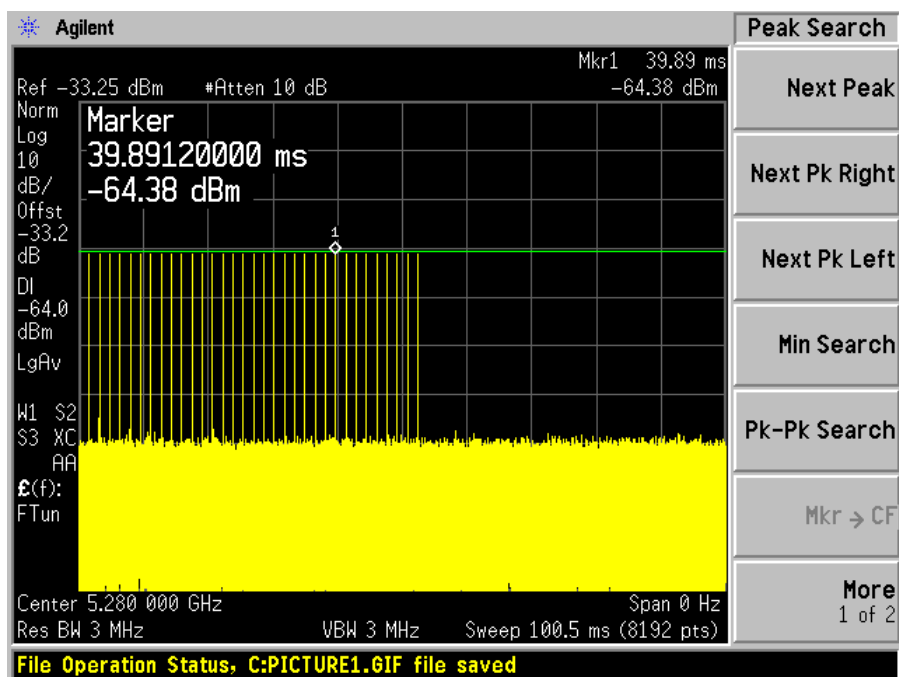
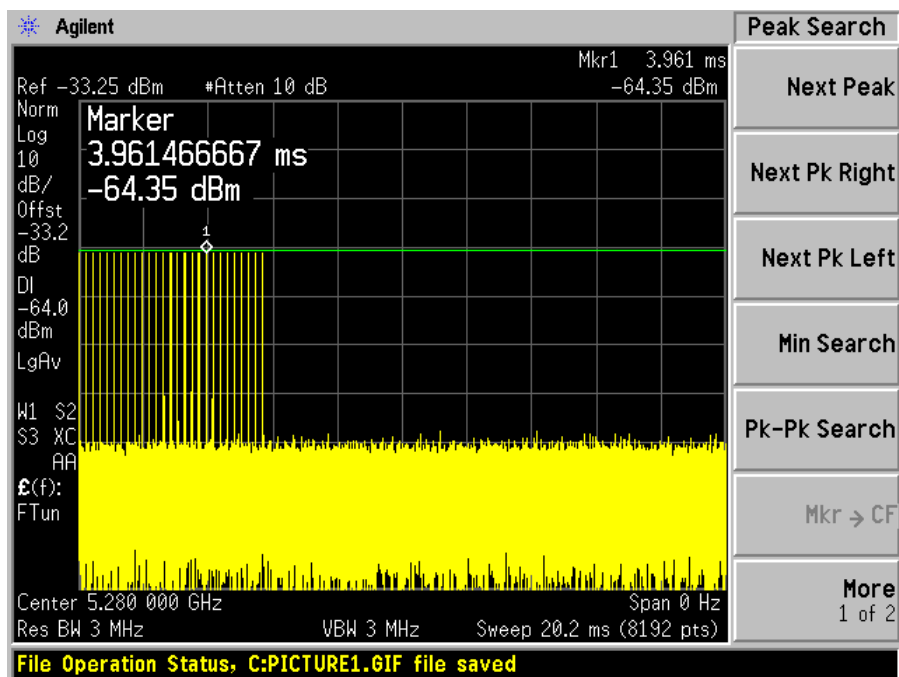
5280 MHz

Radar Type 0

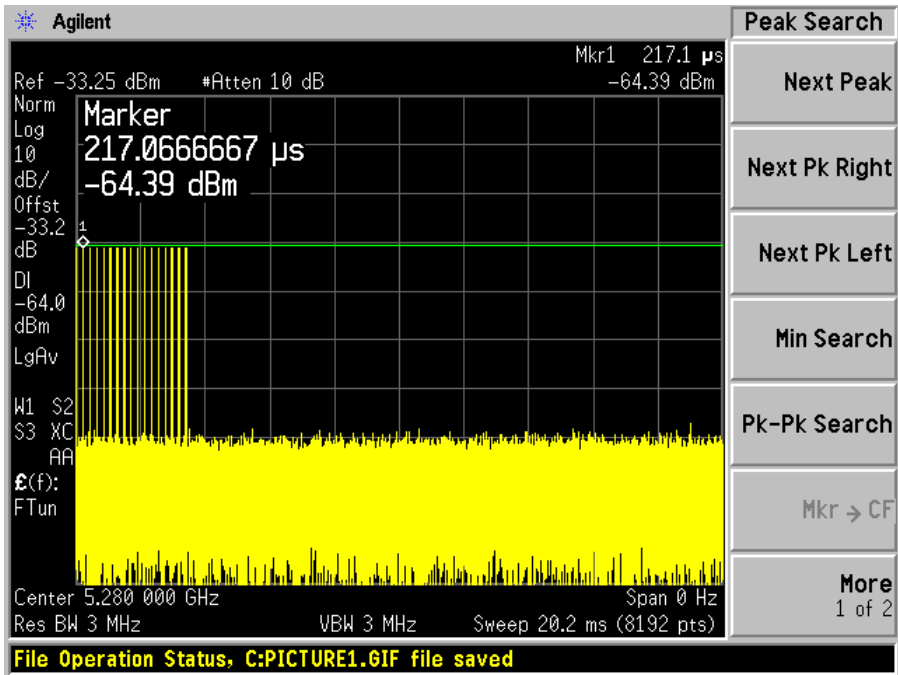


Radar Type 1A

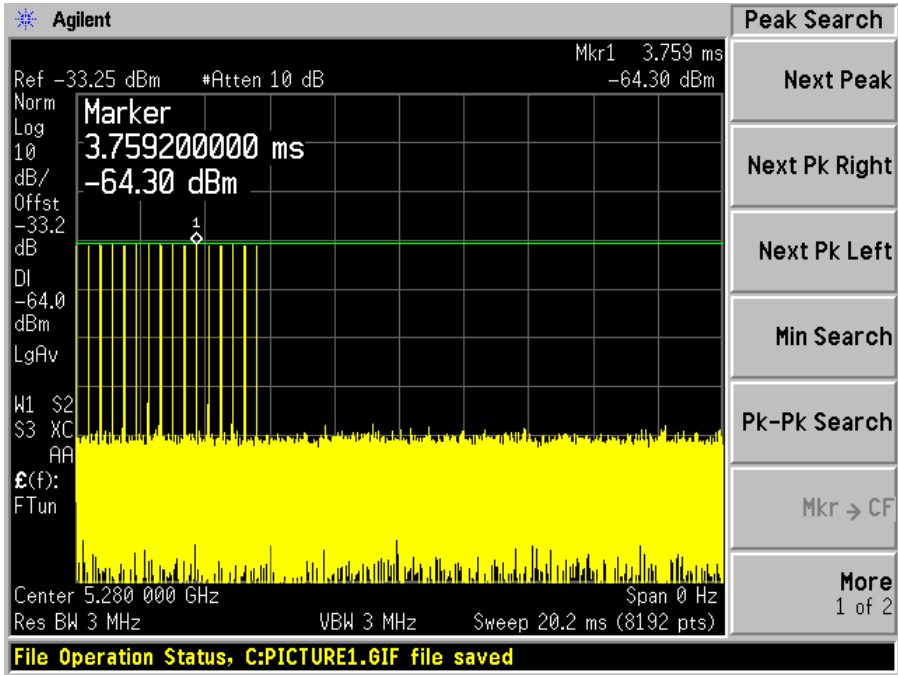


Radar Type 1B**Radar Type 2**

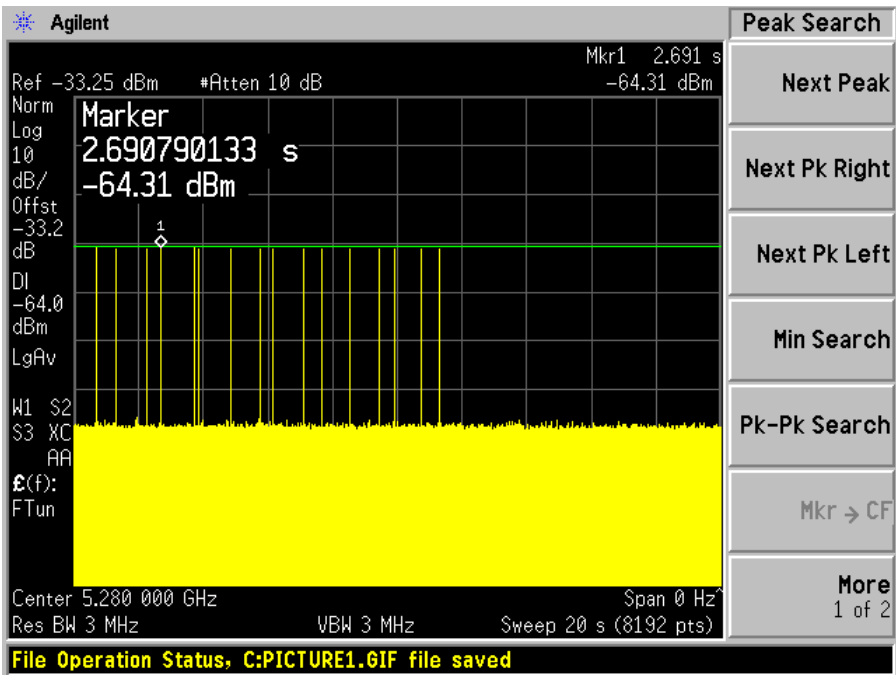
Radar Type 3



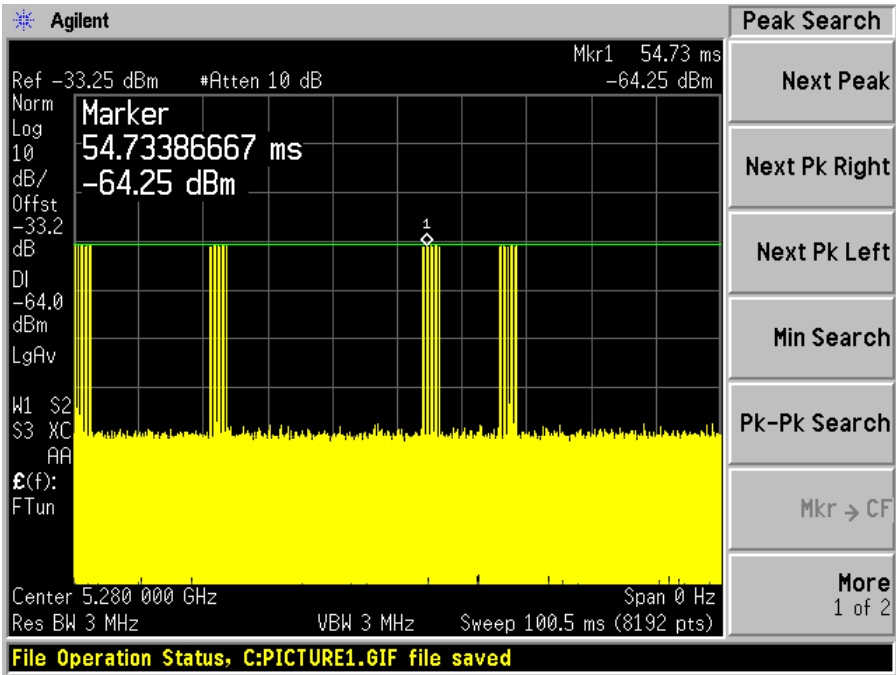
Radar Type 4



Radar Type 5

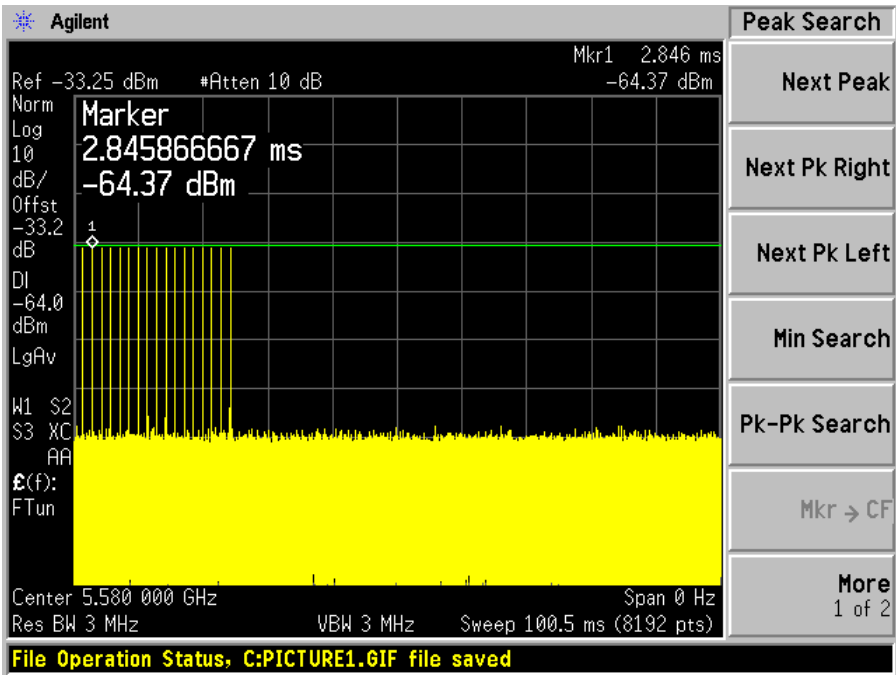


Radar Type 6

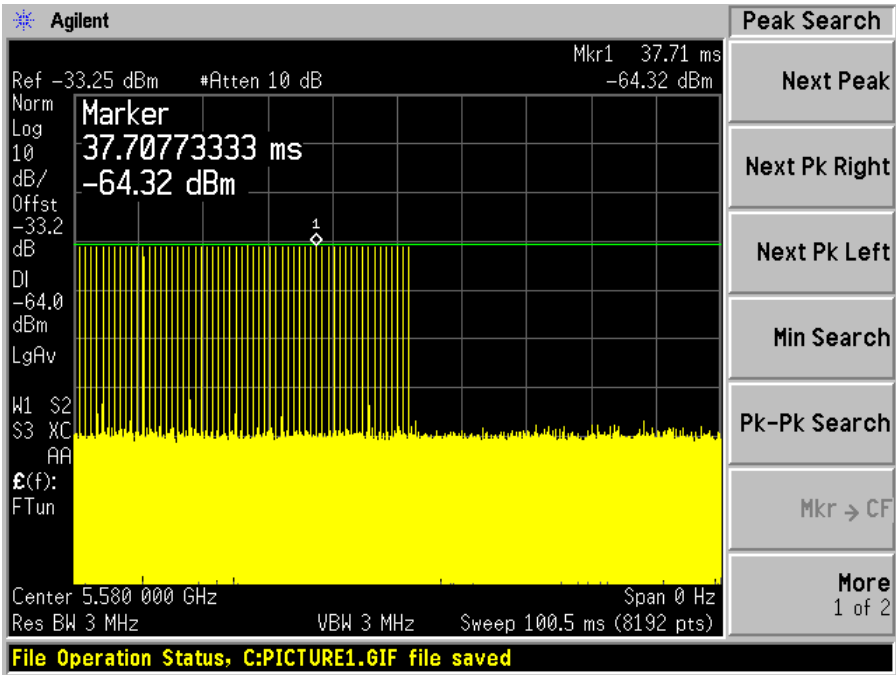


5580 MHz

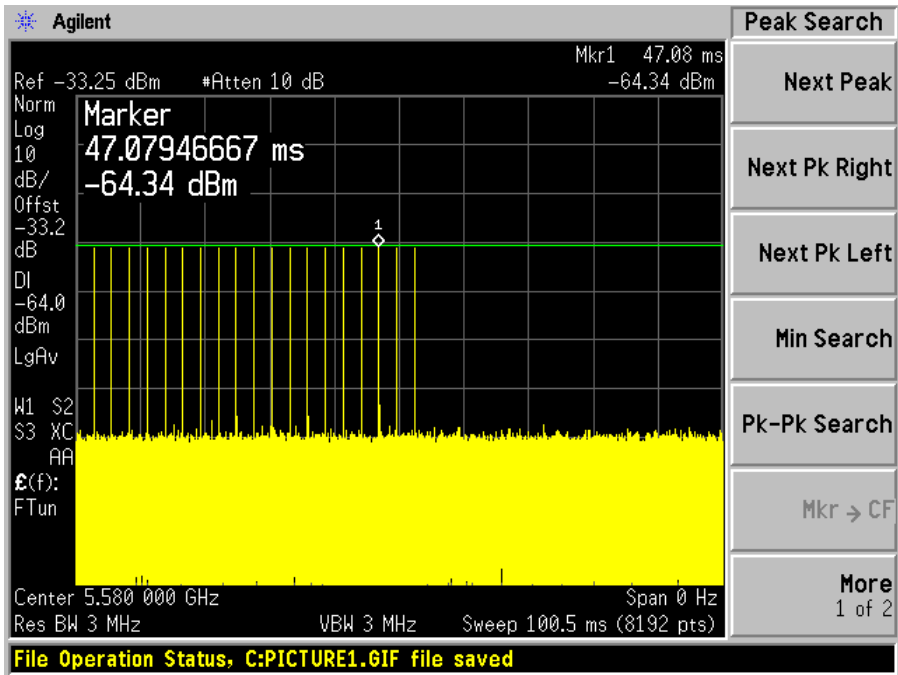
Radar Type 0



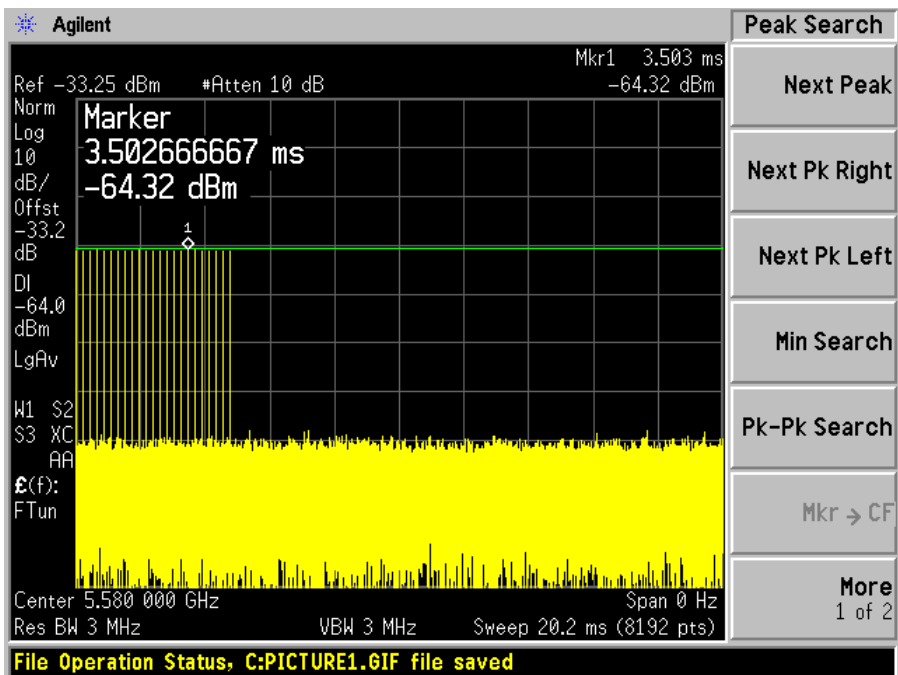
Radar Type 1A



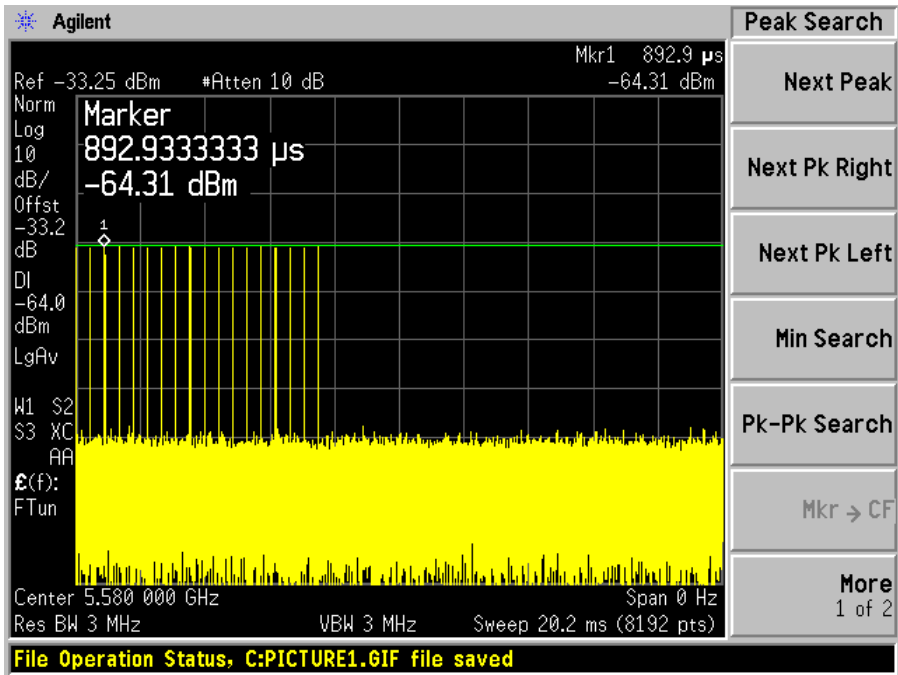
Radar Type 1B



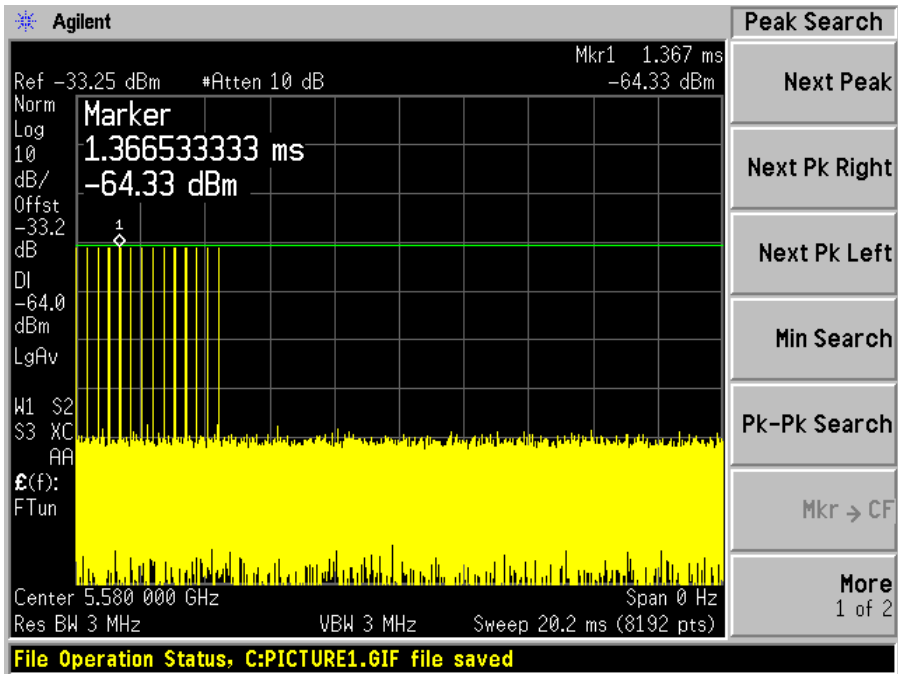
Radar Type 2



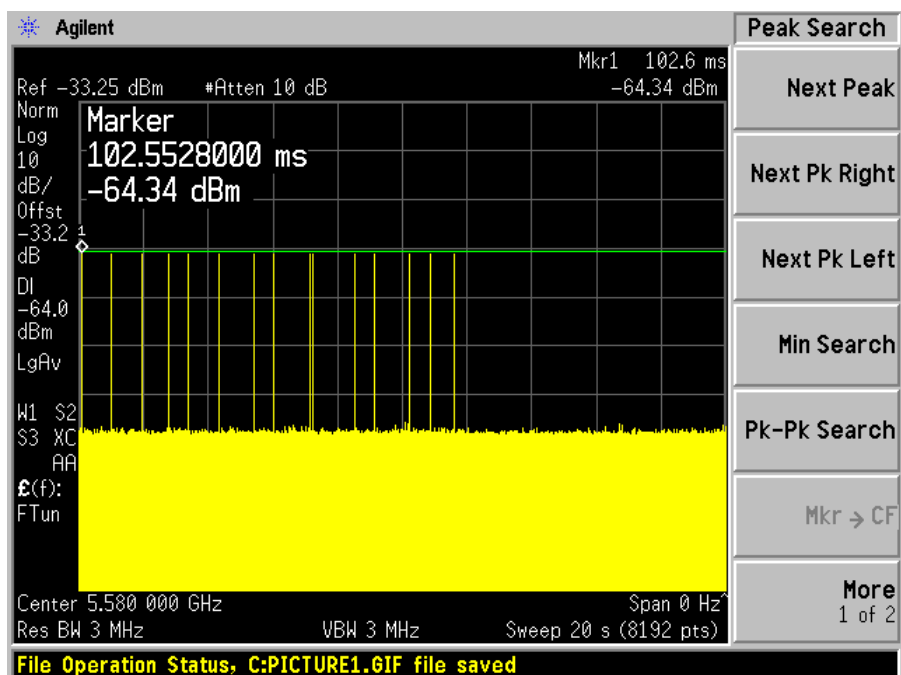
Radar Type 3



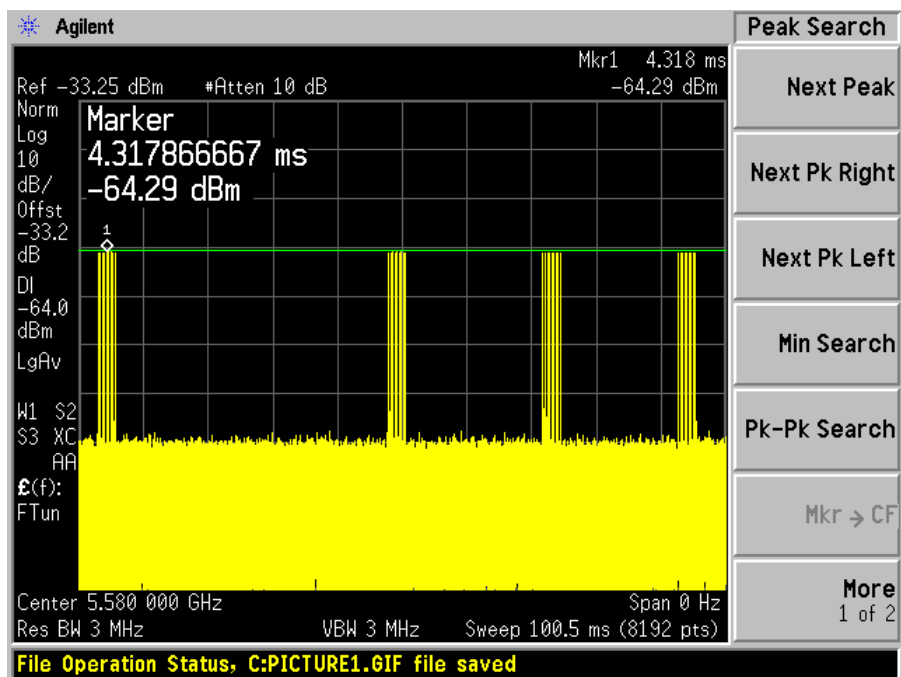
Radar Type 4



Radar Type 5



Radar Type 6



6 Channel Availability Check Time (CAC)

6.1 Test Procedure

- 1) Measure the initial power-up time of EUT.
- 2) With link established on channel, apply a radar signal within 0~6 seconds after the initial power-up period; monitor the transmissions on channel from the spectrum analyzer.
- 3) Reboot EUT, with a link established on channel, apply a radar signal within 54~60 seconds after the initial power-up period, and monitor the transmission on channel from the spectrum analyzer.

EUT Initial power-up Cycle Time

5280 MHz and 5580 MHz Bandwidth 20 MHz

EUT initial Power-up cycle (Second)
125

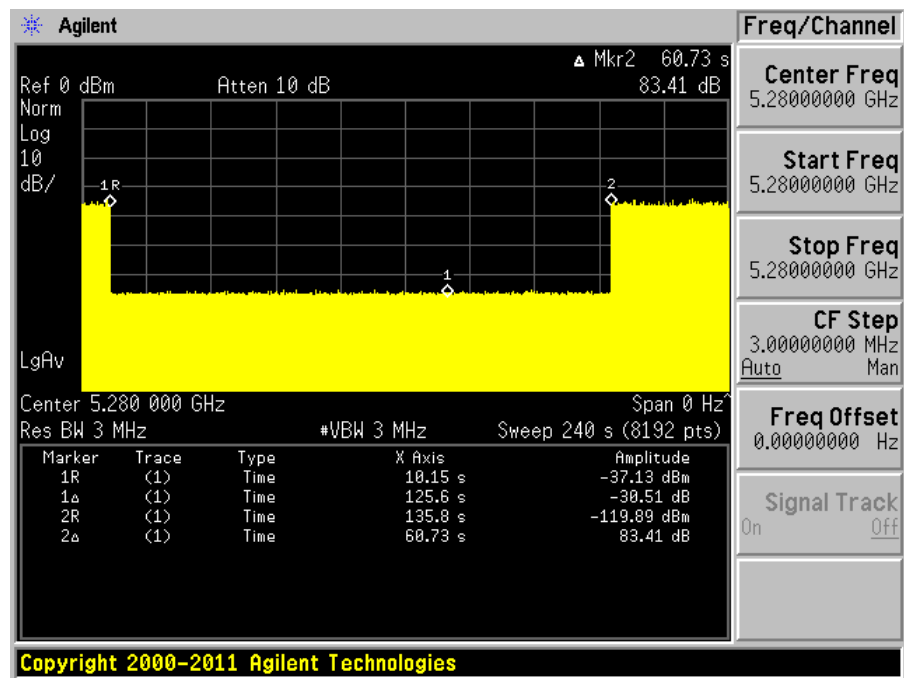
Results:

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.

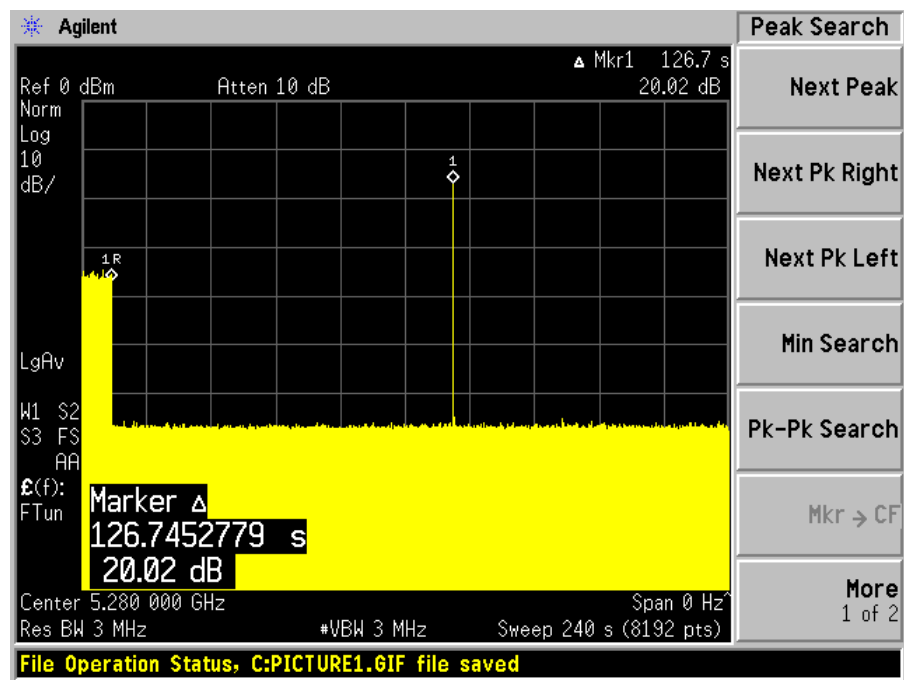
5280 MHz, Bandwidth 20 MHz

Plot of without Radar signal applied



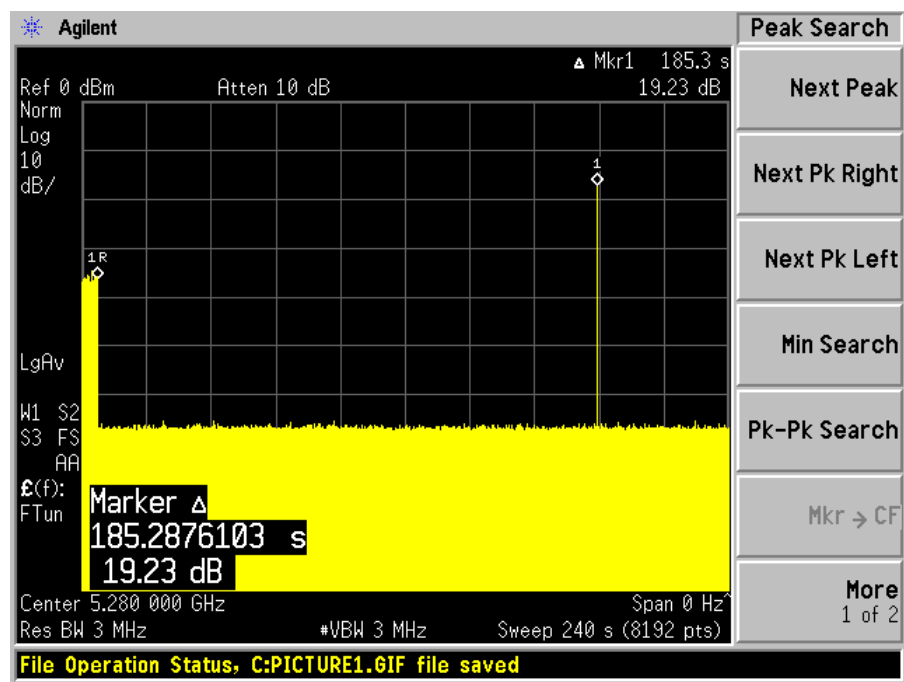
Note: The power-up cycle is 125 seconds.

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



No transmissions found after radar signal applied.

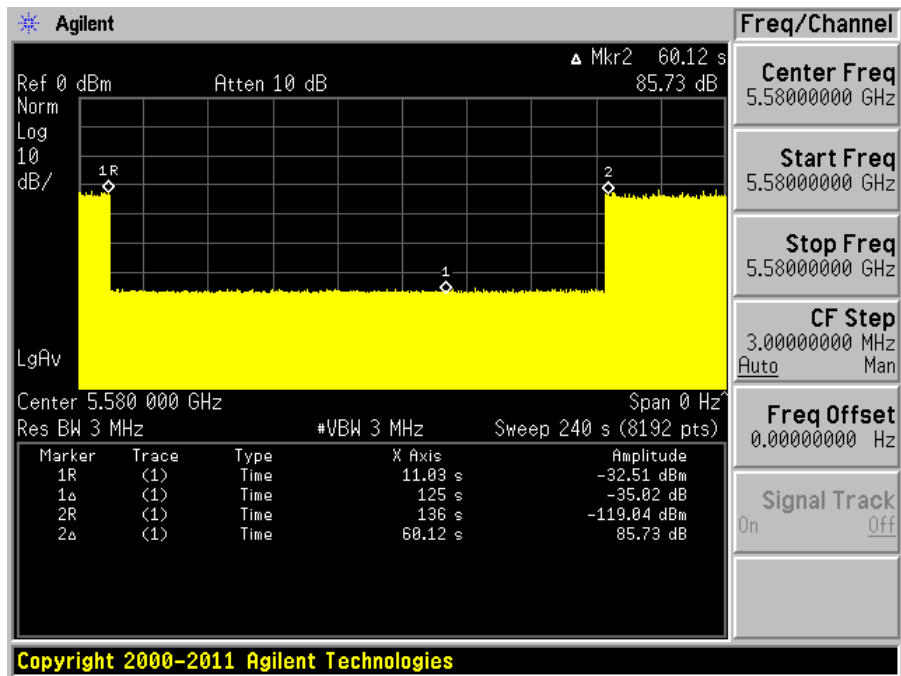
Plot of Radar signal applied at the end of 2 seconds of CAC



No transmissions found after radar signal applied.

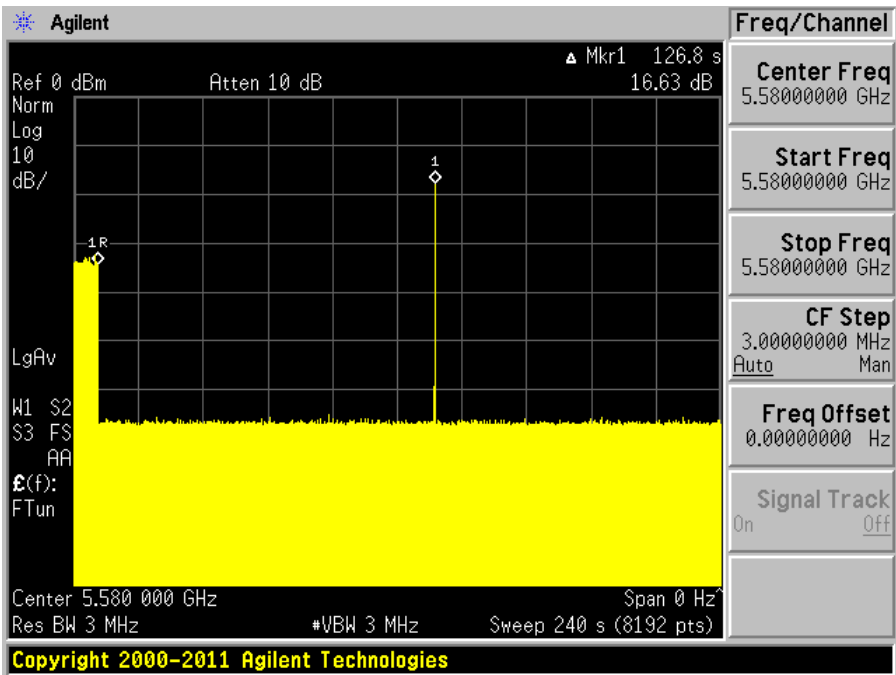
5580 MHz, Bandwidth 20 MHz

Plot of without Radar signal applied



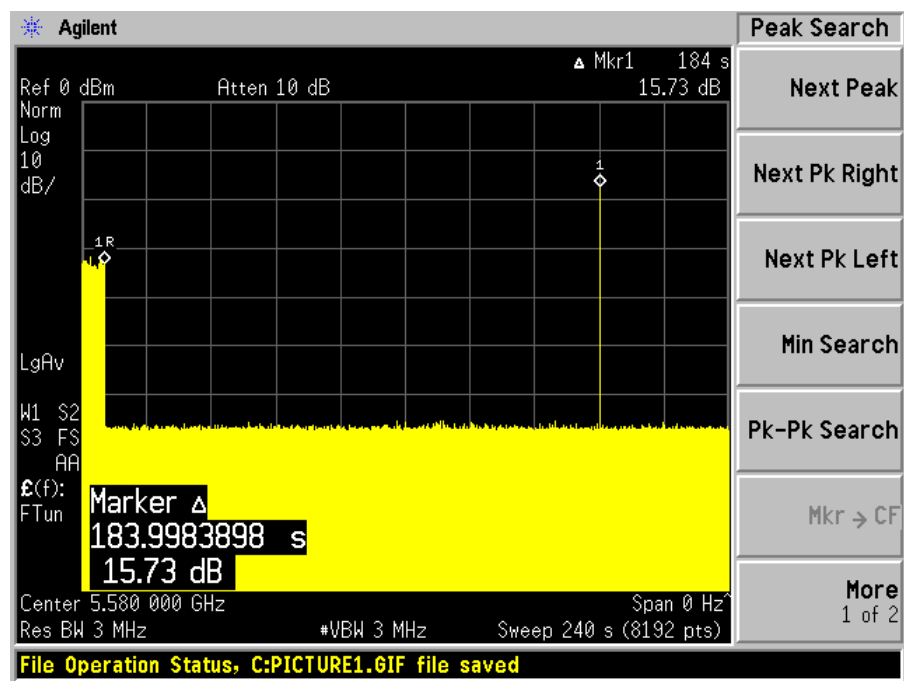
Note: The power-up cycle is 125 seconds.

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 type 0 to type 4 short pulse radar waveform, BACL use type 0 radar signal, repeat using a long pulse radar type5 waveform.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time = $N * \text{Dwell Time}$

N is the number of spectrum analyzer bins showing a device transmission

Dwell Time is the dwell time per bin (i.e. $\text{Dwell Time} = S/B$, S is the sweep time and B is the number of bin, i.e. 8192)

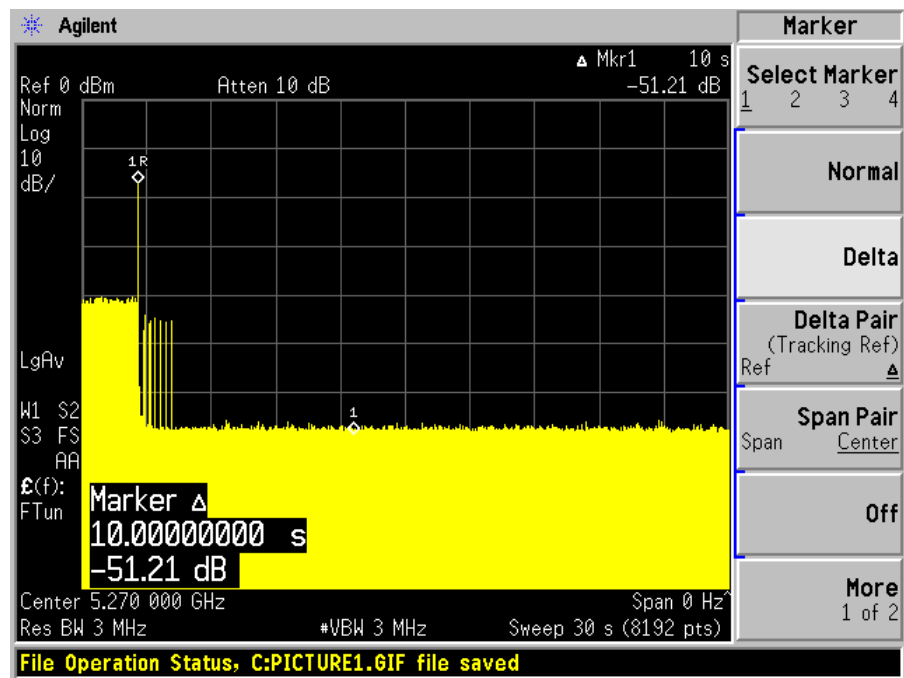
7.2 Test Results

Frequency (MHz)	Bandwidth (MHz)	Radar Type	Results
5270	40	Type 0	Compliant
		Type 5	Compliant
5550	40	Type 0	Compliant
		Type 5	Compliant

Please refer to the following tables and plots.

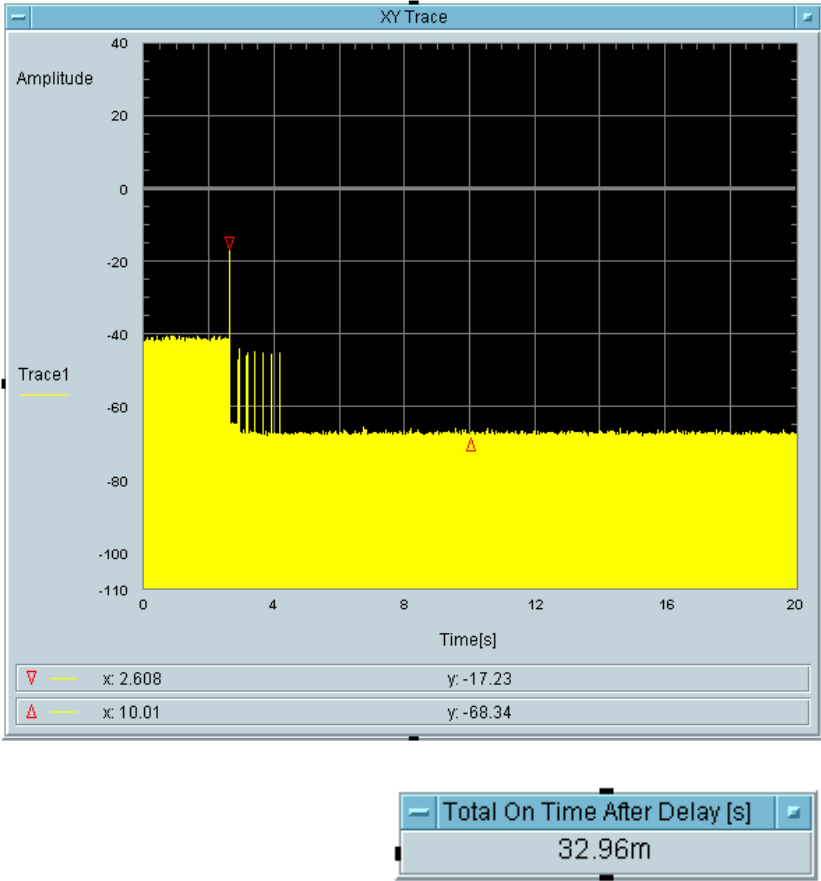
5270 MHz, Bandwidth 40 MHz

Type 0 radar channel move time result:



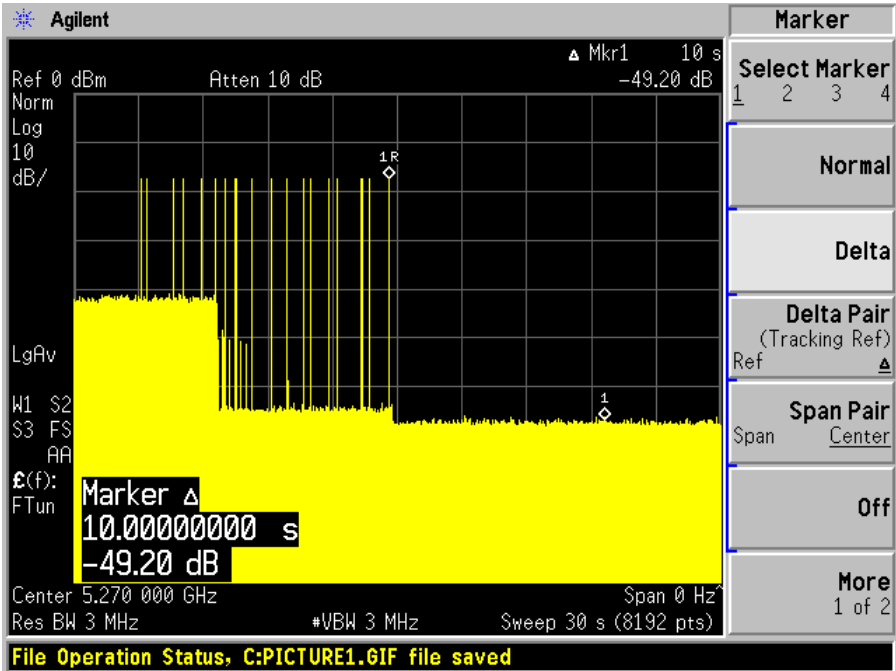
Type 0 radar channel closing transmission time result:

Frequency (MHz)	Radar Type	Channel Closing Transmission Time				Channel Move Time	
		Test	Limit	Aggregate Transmission Time	Limit	Test	Limit
5270	0	36.62 ms	200 ms	32.96 ms	60 ms	< 10 s	10 s



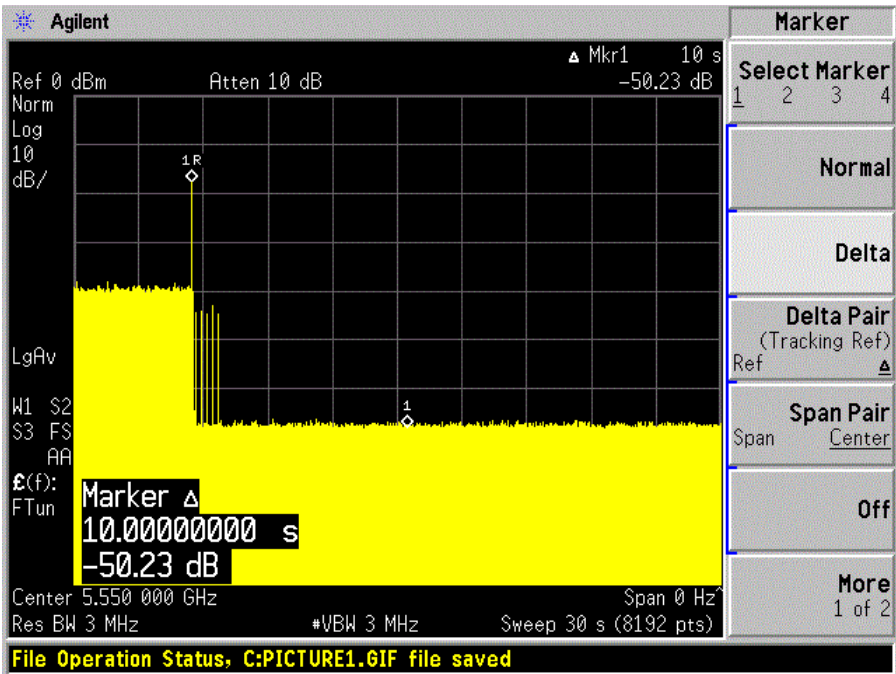
Type 5 radar channel move time result:

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



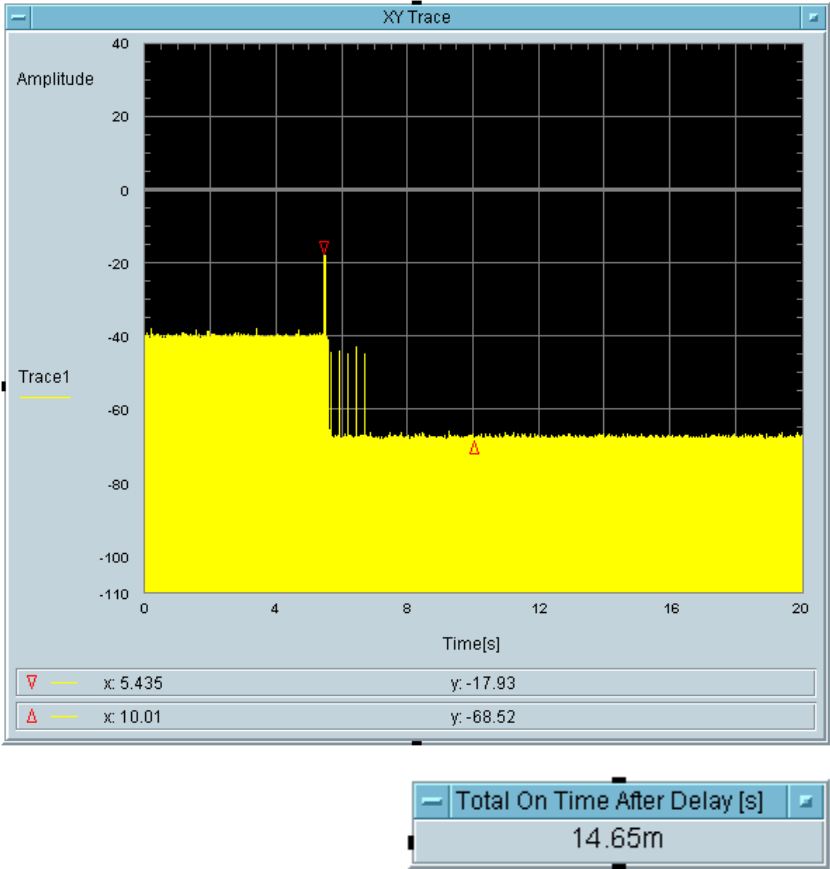
5550 MHz, Bandwidth 40 MHz

Type 0 radar channel move time result:



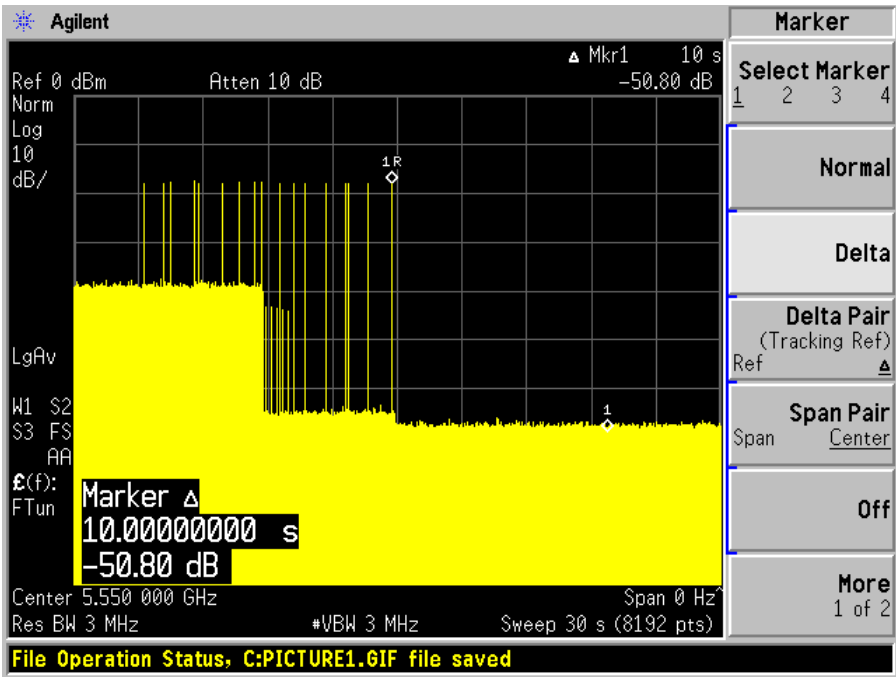
Type 0 radar channel closing transmission time result:

Frequency (MHz)	Radar Type	Channel Closing Transmission Time				Channel Move Time	
		Test	Limit	Aggregate Transmission Time	Limit	Test	Limit
5550	0	32.96 ms	200 ms	14.65 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.



8 Non-Occupancy Period

8.1 Test Procedure

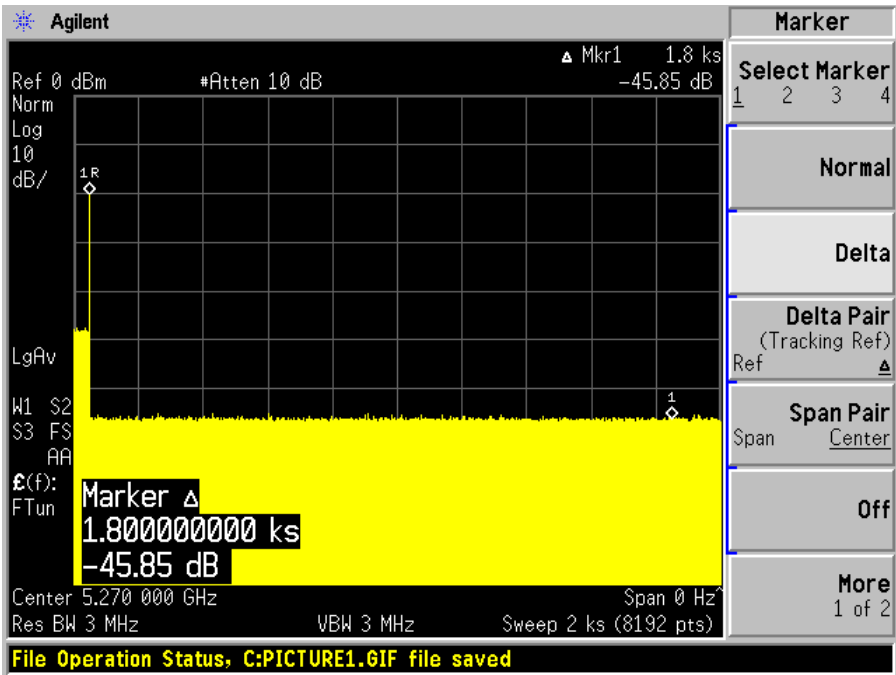
Measure the EUT for more than 30 minutes following the channel close/move time to verify that the EUT does not resume any transmissions on this channel. Provide one plot to demonstrate no transmission on the channel for the non-occupancy period (30 minutes observation time)

8.2 Test Results

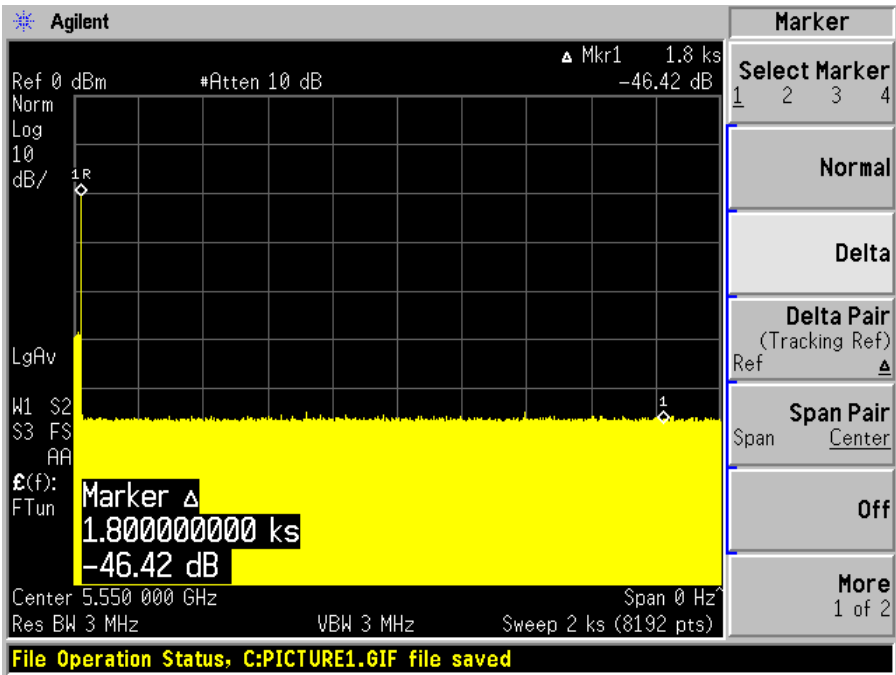
Frequency (MHz)	Bandwidth (MHz)	Spectrum Analyzer Display
5270	40	No transmission within 30 minutes
5550	40	No transmission within 30 minutes

Please refer to the following plots.

5270 MHz, Bandwidth 40 MHz



5550 MHz, Bandwidth 40 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 1A, 1B, 2, 3 or 4)

Start with radar generator frequency set to the center of the channel (F_c)

Perform at least 10 trials and confirm at least 90% detected

Increment radar generator frequency by 5 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 $F_c - 5$ MHz, Repeat this measurement in 1MHz steps at frequencies 5 MHz below where the detection rate begins to fall.

F_L is the lowest frequency at which detection was 100% or better

F_H is the highest frequency at which detection was 100% 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
5280	5270	5290	21	100%	Compliance
5580	5570	5590	20	100%	Compliance
5270	5250	5289	38	100%	Compliance
5550	5530	5569	42	100%	Compliance

Please refer to the following tables and plots.

Results of Detection Bandwidth:

EUT Frequency = 5280 MHz											
DFS Detection Trials (1 = Detected, Blank = No Detected)											
Radar Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5268	0	0	0	0	0	0	0	0	0	0	0 %
5269(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5270	1	1	1	1	1	1	1	1	1	1	100 %
5275	1	1	1	1	1	1	1	1	1	1	100 %
5280(F _c)	1	1	1	1	1	1	1	1	1	1	100 %
5285	1	1	1	1	1	1	1	1	1	1	100 %
5290(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5291	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = F_H – F_L=5290-5269=21 MHz											
EUT 99% OBW = 16.8647 MHz; 16. 8647 x 100% = 16. 8647 MHz										Result:	Pass

EUT Frequency = 5580 MHz											
DFS Detection Trials (1 = Detected, Blank = No Detected)											
Radar Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5569	0	0	0	0	0	0	0	0	0	0	0 %
5570(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5575	1	1	1	1	1	1	1	1	1	1	100 %
5580(F _c)	1	1	1	1	1	1	1	1	1	1	100 %
5585	1	1	1	1	1	1	1	1	1	1	100 %
5590(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5591	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = F_H – F_L=5590-5570=20 MHz											
EUT 99% OBW = 16.8844 MHz; 16.8844 x 100% = 16.8844 MHz										Result:	Pass

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 (%)
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 %
5255	1	1	1	1	1	1	1	1	1	1	100 %
5260	1	1	1	1	1	1	1	1	1	1	100 %
5265	1	1	1	1	1	1	1	1	1	1	100 %
5270(F _c)	1	1	1	1	1	1	1	1	1	1	100 %
5275	1	1	1	1	1	1	1	1	1	1	100 %
5280	1	1	1	1	1	1	1	1	1	1	100 %
5285	1	1	1	1	1	1	1	1	1	1	100 %
5289(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5290	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = F _H – F _L =5289-5251=38 MHz											
EUT 99% OBW = 36.4584 MHz; 36. 4584 x 100% = 36. 4584 MHz										Result:	Pass

EUT Frequency = 5550 MHz											
DFS Detection Trials (1 = Detected, Blank = No Detected)											
Radar Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5528	0	0	0	0	0	0	0	0	0	0	0 %
5529(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5530	1	1	1	1	1	1	1	1	1	1	100 %
5535	1	1	1	1	1	1	1	1	1	1	100 %
5540	1	1	1	1	1	1	1	1	1	1	100 %
5545	1	1	1	1	1	1	1	1	1	1	100 %
5550(F _c)	1	1	1	1	1	1	1	1	1	1	100 %
5555	1	1	1	1	1	1	1	1	1	1	100 %
5560	1	1	1	1	1	1	1	1	1	1	100 %
5565	1	1	1	1	1	1	1	1	1	1	100 %
5570	1	1	1	1	1	1	1	1	1	1	100 %
5571(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5572	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = F _H – F _L =5571-5429=42 MHz											
EUT 99% OBW = 36.7458 MHz; 36.7458 x 100% = 36.7458 MHz										Result:	Pass

9.2 Radar Detection Performance Check

Procedure:

Stream MPEG file from master to slave

Generate radar waveform

Record whether or not the waveform was detected

At least 30 trials are applied for each radar type

For radar types with randomized parameters, each trial uses a unique waveform

Perform with each of the radar types 1-6

Confirm that the detection rate for each radar type meets the minimum requirement

Type 1A&1B, 2, 3, 4: 60% each

Type 5: 80%

Type 6: 70%

Confirm that the mean of the rates for radar types 1 through 4 meets the requirement of 80%

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

Test Results:

5280 MHz, 20 MHz Bandwidth

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

Please refer to the following statistical tables:

5280 MHz, 20 MHz Bandwidth**Table-1A/1B Radar Type 1A/1B Statistical Performance**

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5280	92	1	578	1
2	5280	86	1	618	1
3	5280	74	1	718	1
4	5280	83	1	638	1
5	5280	72	1	738	1
6	5280	68	1	778	1
7	5280	81	1	658	1
8	5280	57	1	938	1
9	5280	78	1	678	1
10	5280	95	1	558	1
11	5280	59	1	898	1
12	5280	67	1	798	1
13	5280	65	1	818	1
14	5280	61	1	878	1
15	5280	76	1	698	1
16	5280	42	1	1278	1
17	5280	35	1	1526	1
18	5280	28	1	1949	1
19	5280	22	1	2458	1
20	5280	25	1	2112	1
21	5280	19	1	2897	1
22	5280	32	1	1653	1
23	5280	28	1	1902	1
24	5280	27	1	2014	1
25	5280	93	1	569	1
26	5280	18	1	3002	1
27	5280	25	1	2178	1
28	5280	25	1	2162	1
29	5280	21	1	2586	1
30	5280	48	1	1118	1
Detection Percentage: 100 % (>60%)					

Table-2 Radar Type 2 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5280	29	1	185	1
2	5280	29	1.4	152	1
3	5280	24	4	152	1
4	5280	25	4	193	1
5	5280	23	1.4	214	1
6	5280	29	3.9	209	1
7	5280	28	2.3	175	1
8	5280	26	4	156	1
9	5280	29	3.5	205	1
10	5280	26	4.1	157	1
11	5280	28	4.8	189	1
12	5280	23	2.1	230	1
13	5280	28	1.5	204	1
14	5280	25	1.6	164	1
15	5280	24	1.7	159	1
16	5280	28	4.5	225	1
17	5280	25	4.4	163	1
18	5280	28	1.3	207	1
19	5280	25	1.8	154	1
20	5280	25	2.2	171	1
21	5280	28	1.6	168	1
22	5280	24	3	161	1
23	5280	25	4.7	155	1
24	5280	24	2.3	215	1
25	5280	25	3	191	1
26	5280	26	3.1	193	1
27	5280	29	1.9	174	1
28	5280	29	4.7	204	1
29	5280	28	4.8	208	1
30	5280	29	4	219	1
Detection Percentage: 100 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5280	18	8.6	253	1
2	5280	16	8	399	1
3	5280	18	9.7	364	1
4	5280	16	7.4	496	1
5	5280	16	6.8	430	1
6	5280	16	8.2	414	1
7	5280	17	9.6	295	1
8	5280	18	6.1	274	1
9	5280	17	7.9	414	1
10	5280	17	7.8	298	1
11	5280	18	8.1	216	1
12	5280	17	7.5	292	1
13	5280	16	8.8	349	1
14	5280	18	6.8	297	1
15	5280	17	7.3	267	1
16	5280	16	6.9	358	1
17	5280	18	7.6	483	1
18	5280	18	8.3	296	1
19	5280	17	7.1	406	1
20	5280	17	9	319	1
21	5280	17	7.8	273	1
22	5280	17	7.8	258	1
23	5280	16	8.8	276	1
24	5280	16	7.9	352	1
25	5280	17	7	440	1
26	5280	18	7.7	318	1
27	5280	17	8.1	214	1
28	5280	17	6	254	1
29	5280	16	8.6	466	1
30	5280	17	10	389	1
Detection Percentage: 100 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5280	15	15.5	452	1
2	5280	15	13.3	248	1
3	5280	14	15.8	335	1
4	5280	16	11.7	300	1
5	5280	15	11.6	466	1
6	5280	15	15.6	385	1
7	5280	14	12.5	354	1
8	5280	13	15.9	424	1
9	5280	13	17.8	346	1
10	5280	14	12.4	340	1
11	5280	15	19.4	288	1
12	5280	16	14.4	421	1
13	5280	15	12.1	380	1
14	5280	13	19.4	238	1
15	5280	14	11.4	334	1
16	5280	15	11.7	453	1
17	5280	14	19.3	303	1
18	5280	13	14.3	439	1
19	5280	15	13	225	1
20	5280	13	17.8	247	1
21	5280	15	11.8	330	1
22	5280	12	14.9	397	1
23	5280	14	19.2	491	1
24	5280	14	16.6	425	1
25	5280	12	13.8	376	1
26	5280	12	15.3	358	1
27	5280	15	12.5	363	1
28	5280	12	18.3	212	1
29	5280	14	13.6	336	1
30	5280	12	14.4	405	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	3	8	65.8	1161	1791	0.436434	1
1	2	9	58	1914		1.564608	
2	3	20	50.3	1959	1777	3.974225	
3	2	20	56.8	1714		4.215041	
4	1	18	88			5.411732	
5	3	11	82.4	1843	1166	6.9648	
6	2	17	70	1190		9.006671	
7	2	16	55.9	1734		10.165265	
8	2	7	55.6	1302		11.555496	

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	19	54.8	1837	1691	0.290832	1
1	1	17	56.1			0.689525	
2	2	17	95	1099		1.420963	
3	2	14	56.1	1909		2.440564	
4	1	12	96.8			2.826065	
5	2	7	84	1134		3.735383	
6	2	16	76.9	1690		4.113894	
7	2	8	53	1890		5.30459	
8	1	15	97.2			5.828333	
9	2	9	63.2	1667		6.114409	
10	2	15	80	1669		7.177351	
11	2	19	94.1	1902		7.921327	
12	2	20	76	1214		8.160722	
13	2	9	96.1	1328		9.15554	
14	2	10	96	1906		9.865862	
15	1	9	97.1			10.599166	
16	3	15	66.6	1019	1597	10.773642	
17	3	14	92.8	1909	1153	11.64548	

Bin5 Statistics 3

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	12	66	1012		0.126941	1
1	2	16	70.7	1856		1.763556	
2	1	16	79.9			2.707581	
3	2	19	93.9	1627		2.929323	
4	2	19	50.6	1688		4.420455	
5	1	14	83.1			4.652671	
6	2	8	58.8	1347		6.10761	
7	2	6	67.3	1146		7.283286	
8	2	19	82.4	1871		7.650291	
9	3	9	55.1	1916	1540	8.514	
10	2	12	70.2	1196		9.864802	
11	3	18	98.7	1689	1378	10.78309	
12	2	15	76.7	1832		11.6779	

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	77.9			0.559633	1
1	2	16	67.1	1492		0.945452	
2	2	11	79.4	1696		1.921307	
3	3	18	53.9	1608	1386	2.919064	
4	1	10	67.2			3.621	
5	1	12	66.3			3.778481	
6	2	13	68.7	1499		4.883039	
7	2	15	74.7	1990		5.440106	
8	2	18	92.8	1670		6.089738	
9	2	9	74	1129		6.796537	
10	2	12	77.7	1245		7.891902	
11	2	11	87.9	1476		8.814876	
12	1	8	97.5			9.41653	
13	2	19	50.7	1422		10.173832	
14	1	8	98.4			11.049477	

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	17	92.8	1904		0.78297	1
1	2	14	91.4	1300		1.978921	
2	1	15	65			3.156578	
3	1	12	84.9			4.418113	
4	2	7	64	1505		6.415901	
5	2	20	60.2	1126		7.402315	
6	3	10	52.4	1372	1560	8.541252	
7	3	17	65.7	1892	1773	10.336151	
8	2	14	66.5	1476		11.68574	

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	15	70.2	1960	1858	0.593943	1
1	2	9	55.8	1724		0.918995	
2	2	8	94.4	1568		2.234978	
3	2	7	68.7	1545		2.571326	
4	2	19	84.3	1957		3.018614	
5	3	12	90.3	1214	1578	4.082657	
6	3	18	78.9	1824	1411	4.793219	
7	2	16	90	1736		5.276864	
8	2	17	90.5	1566		6.153329	
9	2	16	88.2	1305		6.785504	
10	2	12	74.1	1820		8.091646	
11	2	17	65.9	1752		8.324997	
12	1	15	78.3			9.120538	
13	2	18	62.4	1723		9.83411	
14	1	14	52.2			10.763236	
15	3	15	95.6	1844	1423	11.717796	

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	55.3	1851	1636	1.043888	1
1	3	9	79.8	1622	1296	2.934148	
2	1	18	53.2			3.924128	
3	1	7	89.6			5.39632	
4	2	11	52.2	1116		6.522174	
5	2	8	95	1138		7.600829	
6	2	9	97.9	1014		9.715386	
7	2	15	61.6	1629		11.464869	

Bin5 Statistics 8

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	13	77.7	1819		0.054445	1
1	2	5	91.6	1846		1.44383	
2	1	17	55.3			1.520965	
3	2	14	62.1	1328		2.860856	
4	2	16	94.2	1613		3.378724	
5	3	15	58.5	1369	1507	3.849942	
6	2	8	77.5	1864		4.782804	
7	3	6	69.1	1869	1121	5.589215	
8	3	8	92.9	1232	1738	6.465552	
9	2	13	95.3	1586		6.839229	
10	2	17	87.1	1297		8.090834	
11	2	6	75.3	1435		8.702569	
12	2	19	68.5	1114		9.114362	
13	2	13	91.2	1111		9.829466	
14	1	8	89.3			11.227602	
15	1	12	55.3			11.307953	

Bin5 Statistics 9

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	14	59.9	1480	1043	0.115434	1
1	3	17	83.8	1995	1818	0.93236	
2	1	14	66.7			1.740418	
3	3	14	53.6	1062	1605	2.732523	
4	1	9	59.7			3.544559	
5	3	16	78.3	1261	1022	4.250886	
6	3	11	90.3	1841	1380	5.489464	
7	2	9	67.3	1941		6.329498	
8	2	15	50.8	1986		6.484642	
9	3	9	81.5	1543	1072	7.472718	
10	1	20	65.9			8.24039	
11	2	12	95.3	1610		9.465581	
12	1	15	61.2			9.679869	
13	1	17	59.9			10.501777	
14	2	17	94.9	1709		11.366379	

Bin5 Statistics 10

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	7	66.3	1450	1657	1.201466	1
1	2	12	69	1780		1.816343	
2	2	14	96.6	1179		2.666987	
3	2	8	86.3	1876		4.621886	
4	1	12	53.7			5.519306	
5	2	7	91.2	1099		7.745265	
6	2	9	59.2	1154		9.221648	
7	2	11	64	1829		9.550514	
8	1	9	65.8			11.371919	

Bin5 Statistics 11

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	10	50.9	1847		0.172632	1
1	3	11	65.8	1295	1153	1.848002	
2	1	18	62.1			2.101581	
3	2	7	85.1	1902		3.840073	
4	2	14	55.8	1224		4.66042	
5	2	13	61.3	1290		5.641294	
6	2	16	59.5	1526		6.421285	
7	3	18	64	1471	1900	7.802205	
8	1	18	50.9			8.218454	
9	3	15	53	1837	1456	9.910635	
10	1	15	89.3			10.228794	
11	2	16	88.7	1425		11.867618	

Bin5 Statistics 12

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	6	93.7	1936		0.416169	1
1	2	10	84.2	1995		0.827843	
2	2	20	75.3	1786		1.623994	
3	2	9	74.6	1590		1.823776	
4	3	17	85.9	1554	1053	2.613901	
5	2	5	92.3	1315		3.223428	
6	1	8	96.9			4.077787	
7	1	19	77			4.788909	
8	2	8	98.9	1852		5.382958	
9	2	16	75.4	1346		5.956006	
10	2	8	89	1366		6.52213	
11	2	6	62.1	1797		6.798047	
12	3	16	60.6	1842	1321	7.308967	
13	3	11	73.6	1880	1023	7.869465	
14	1	13	61.4			8.598326	
15	2	13	87.4	1656		9.328089	
16	2	9	85	1142		9.804658	
17	2	20	53.2	1342		10.200158	
18	2	16	51.1	1635		11.252219	
19	2	19	82.9	1567		11.814479	

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	14	97.1	1889		0.394861	1
1	2	20	73.1	1953		1.48503	
2	3	12	94.4	1659	1512	3.591106	
3	2	16	72.1	1612		4.205935	
4	2	8	53.6	1642		5.361815	
5	2	11	74.8	1471		6.989532	
6	3	15	82	1214	1541	8.717227	
7	1	9	68.3			10.550263	
8	2	6	72.6	1897		11.362351	

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	10	56.2	1263		0.631843	0
1	1	18	51.5			1.460733	
2	2	16	61.6	1813		1.861467	
3	3	8	59.3	1832	1845	3.119571	
4	2	16	55.7	1616		3.319715	
5	1	14	59.9			4.348616	
6	2	5	67.3	1163		5.22875	
7	2	19	70.3	1367		5.832002	
8	1	14	57.1			7.089339	
9	3	13	90.3	1452	1820	7.855172	
10	1	17	63.6			8.43274	
11	2	19	94.2	1374		9.20338	
12	1	12	97.2			10.316121	
13	3	8	73.2	1298	1985	10.857108	
14	2	18	61.8	1426		11.608443	

Bin5 Statistics 15

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	13	95	1670		0.629634	1
1	2	16	72.9	1864		1.411866	
2	2	17	93.7	1752		3.967559	
3	2	7	67.4	1904		5.027817	
4	2	14	66.2	1853		6.236364	
5	2	16	58.5	1716		7.374624	
6	3	11	67.3	1560	1893	8.616723	
7	3	10	89.6	1294	1033	10.542367	
8	1	6	82.2			11.735056	

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	17	81			0.319085	1
1	2	10	84.6	1877		0.84314	
2	2	19	69.6	1240		1.912051	
3	2	10	80.9	1373		2.264247	
4	1	8	69.2			3.106028	
5	3	9	56.3	1156	1312	3.993156	
6	2	11	69.6	1132		4.382924	
7	1	10	100			5.131124	
8	2	17	83.7	1241		5.560208	
9	2	9	53	1677		6.012749	
10	2	13	94.9	1266		7.079685	
11	2	11	58.1	1705		7.566089	
12	3	9	91.7	1466	1796	8.344354	
13	3	16	73.9	1598	1064	8.766757	
14	2	6	62	1125		9.698175	
15	1	16	87.5			10.633394	
16	1	16	56.6			10.802057	
17	3	19	96.6	1911	1287	11.783173	

Bin5 Statistics 17

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	8	77.2	1053		0.196576	1
1	1	14	83.8			1.020157	
2	1	12	79.2			1.732276	
3	2	9	56.7	1108		2.430966	
4	2	18	56.1	1872		3.187449	
5	2	13	87.8	1815		3.341082	
6	2	18	53	1681		4.140163	
7	1	8	83			4.975092	
8	1	18	93.2			5.989995	
9	3	13	52.9	1525	1872	6.076687	
10	2	9	66.3	1215		7.206706	
11	2	11	95.9	1159		7.704204	
12	3	6	57	1918	1761	8.62472	
13	2	8	50.5	1875		8.873894	
14	1	17	78.9			9.823249	
15	1	7	74.8			10.377148	
16	1	13	67.6			10.816556	
17	3	20	73.4	1911	1090	11.484763	

Bin5 Statistics 18

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	11	58.6			0.404683	1
1	3	19	73.4	1612	1815	1.161969	
2	1	15	72.4			1.581672	
3	3	17	66.4	1115	1362	2.056059	
4	2	10	80.4	1255		2.632195	
5	2	19	70.1	1046		3.681475	
6	1	12	52.5			3.985849	
7	2	16	54.2	1019		4.631376	
8	2	12	62.7	1754		5.544418	
9	2	17	62.5	1431		6.310581	
10	2	17	98	1772		6.523666	
11	2	7	74.5	1534		7.137043	
12	3	18	61.9	1063	1054	8.087996	
13	2	7	67.8	1831		8.439276	
14	2	13	63.8	1452		9.257215	
15	3	12	86.2	1328	1959	9.766497	
16	3	12	77.7	1424	1039	10.473272	
17	1	15	73			11.212753	
18	3	14	75.2	1657	1610	11.947898	

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	8	78.2	1140	1997	0.190464	1
1	2	12	94.5	1549		1.261264	
2	2	11	71.3	1732		2.226714	
3	2	18	59.2	1008		2.801961	
4	2	19	62.5	1406		3.247293	
5	3	12	82.8	1744	1612	3.987651	
6	3	16	85.9	1746	1102	4.515639	
7	1	14	88.7			5.372913	
8	3	13	87.5	1202	1821	6.631893	
9	2	16	79.8	1208		7.239049	
10	2	12	91	1954		7.841652	
11	3	18	83.1	1396	1236	8.358461	
12	3	19	91.6	1865	1044	9.715927	
13	2	15	86.1	1905		10.087178	
14	3	14	92.6	1377	1745	10.927361	
15	2	17	74	1887		11.911038	

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	10	53.6	1717	1078	0.850441	1
1	3	19	94.4	1055	1599	1.116429	
2	2	7	83.7	1519		2.469488	
3	2	15	58.1	1317		3.156698	
4	3	9	62.5	1483	1498	4.123936	
5	2	16	83.3	1836		4.43724	
6	3	12	97.5	1449	1223	5.264895	
7	2	10	92.4	1216		6.063333	
8	2	9	53.5	1934		7.485412	
9	2	12	66.7	1356		8.062418	
10	3	16	97.6	1670	1159	8.78456	
11	2	14	59.6	1254		10.170959	
12	2	13	85.9	1835		10.519461	
13	3	6	80.8	1523	1284	11.317574	

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	14	68.2			0.55668	1
1	2	7	87.8	1067		0.742271	
2	2	16	79.1	1393		1.873303	
3	3	17	56.8	1839	1601	2.491994	
4	2	15	74.6	1806		3.385545	
5	3	19	85.8	1374	1119	3.952991	
6	3	19	87.7	1904	1099	4.798181	
7	1	8	61.4			5.529455	
8	1	16	64.9			6.062179	
9	3	15	67.3	1691	1048	6.901408	
10	2	17	91.7	1110		7.491686	
11	2	12	96.9	1775		8.271997	
12	3	13	89.6	1691	1552	9.0618	
13	2	9	83.6	1679		9.300296	
14	3	12	74.7	1395	1163	9.913033	
15	2	20	83.3	1455		10.974512	
16	1	16	57.7			11.936785	

Bin5 Statistics 22

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	10	53.6	1717	1078	0.850441	1
1	3	19	94.4	1055	1599	1.116429	
2	2	7	83.7	1519		2.469488	
3	2	15	58.1	1317		3.156698	
4	3	9	62.5	1483	1498	4.123936	
5	2	16	83.3	1836		4.43724	
6	3	12	97.5	1449	1223	5.264895	
7	2	10	92.4	1216		6.063333	
8	2	9	53.5	1934		7.485412	
9	2	12	66.7	1356		8.062418	
10	3	16	97.6	1670	1159	8.78456	
11	2	14	59.6	1254		10.170959	
12	2	13	85.9	1835		10.519461	
13	3	6	80.8	1523	1284	11.317574	

Bin5 Statistics 23

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	14	87.3	1818	1075	0.051731	1
1	2	19	90.9	1915		1.223863	
2	1	13	92.4			2.026466	
3	2	11	55.9	1851		2.824317	
4	3	16	53.3	1227	1318	3.122712	
5	3	9	55.7	1916	1247	3.904228	
6	1	13	82.6			5.124586	
7	3	15	91	1292	1902	5.279496	
8	2	12	85	1777		6.580415	
9	1	8	84.6			7.363207	
10	3	18	54.3	1544	1194	7.548772	
11	3	5	65.8	1644	1551	8.891483	
12	2	9	75.2	1934		9.028475	
13	3	11	66.6	1076	1446	10.287798	
14	1	12	55.9			10.912502	
15	2	15	86.4	1326		11.366591	

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	9	51.7	1440		0.718369	1
1	2	14	72.7	1548		2.171956	
2	2	19	62.9	1369		3.408821	
3	2	5	79.7	1391		4.259123	
4	2	17	93.1	1765		5.349771	
5	2	20	57	1437		6.78622	
6	2	13	64.3	1628		7.439295	
7	2	9	52.6	1428		8.977407	
8	2	12	56	1881		9.884957	
9	2	9	94.2	1341		11.214757	

Bin5 Statistics 25

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	19	67.5	1339	1611	0.234703	1
1	3	19	77	1024	1798	2.475394	
2	1	10	60.2			2.702189	
3	2	7	60.5	1678		4.019299	
4	3	16	79.9	1149	1673	6.598532	
5	2	14	88.6	1550		7.334091	
6	2	12	74.2	1997		8.008058	
7	2	12	72.8	1172		9.509077	
8	1	14	62.7			11.914508	

Bin5 Statistics 26

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	17	62.6	1648	1041	0.134138	1
1	2	20	54.7	1237		1.297815	
2	1	9	56.4			1.739292	
3	2	19	54.8	1250		2.547282	
4	1	16	81.2			3.208428	
5	1	11	89			4.204285	
6	1	15	56			4.90713	
7	1	13	71.8			5.440804	
8	1	10	92.8			6.085868	
9	3	8	93.3	1485	1053	6.771054	
10	3	8	79.6	1318	1122	8.186032	
11	2	18	56.9	1253		8.642412	
12	2	7	72.9	1915		9.122294	
13	2	19	74.1	1402		10.071608	
14	2	13	98.6	1608		10.746181	
15	1	18	80.6			11.834478	

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	17	86.2			0.356404	1
1	2	9	98.4	1885		0.876329	
2	3	8	95.6	1553	1277	1.751072	
3	1	10	74.7			2.891152	
4	2	12	71.9	1199		4.111127	
5	2	9	67.2	1238		4.557875	
6	3	18	74.2	1730	1141	5.454973	
7	3	9	96.4	1431	1800	6.099194	
8	3	17	63.6	1926	1442	7.609654	
9	3	8	78.6	1416	1568	8.080584	
10	1	10	97			9.002167	
11	2	11	99.7	1600		9.517507	
12	2	8	84.8	1097		11.071221	
13	2	16	89.9	1689		11.860359	

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	56.1	1638		0.462158	1
1	3	17	93	1261	1289	2.129934	
2	1	18	90.2			3.129411	
3	2	17	89.5	1188		3.796321	
4	1	17	73.5			4.955599	
5	2	7	92.7	1163		6.595441	
6	3	15	73.6	1215	1499	7.665151	
7	1	19	86.9			8.926147	
8	2	11	91.8	1094		9.690846	
9	3	7	97	1717	1214	11.145646	

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	13	78.6			0.541912	1
1	1	19	61.6			1.563073	
2	1	13	58.7			2.117178	
3	2	5	50.3	1799		2.466833	
4	2	8	61.9	1482		3.664492	
5	3	13	93.5	1159	1971	4.302542	
6	1	13	59.8			5.086377	
7	2	12	58.1	1953		6.236307	
8	1	20	61.9			6.867356	
9	3	5	74.3	1691	1900	7.53085	
10	2	14	76.8	1832		8.696152	
11	2	11	82.9	1192		9.487693	
12	3	8	94.1	1872	1684	9.645113	
13	3	14	75.3	1270	1602	10.659309	
14	3	6	71.5	1192	1460	11.430407	

Bin5 Statistics 30

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	13	89			0.045483	1
1	2	11	93.2	1775		1.232325	
2	2	12	75.5	1374		2.697025	
3	2	6	80.5	1119		3.869348	
4	3	8	63.4	1608	1976	4.956339	
5	2	13	94.5	1835		5.093943	
6	2	14	91.5	1402		6.726908	
7	3	5	56.1	1769	1813	7.040712	
8	2	18	97.5	1785		8.078042	
9	2	11	78.5	1142		9.808095	
10	3	15	69.9	1644	1179	10.63411	
11	2	16	93.8	1487		11.750583	

Table-6 Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)	Hopping Sequence
1	5280	9	1	333	1	5344.0, 5510.0, 5513.0, 5530.0, 5390.0, 5612.0, 5657.0, 5262.0, 5655.0, 5517.0, 5698.0, 5328.0, 5689.0, 5515.0, 5358.0, 5520.0, 5471.0, 5600.0, 5522.0, 5534.0, 5273.0, 5601.0, 5598.0, 5473.0, 5656.0, 5370.0, 5546.0, 5684.0, 5551.0, 5284.0, 5708.0, 5439.0, 5399.0, 5415.0, 5664.0, 5416.0, 5519.0, 5303.0, 5386.0, 5640.0, 5477.0, 5539.0, 5628.0, 5688.0, 5433.0, 5411.0, 5690.0, 5324.0, 5278.0, 5483.0, 5564.0, 5555.0, 5507.0, 5466.0, 5274.0, 5683.0, 5681.0, 5441.0, 5260.0, 5680.0, 5718.0, 5687.0, 5476.0, 5455.0, 5627.0, 5639.0, 5661.0, 5287.0, 5376.0, 5405.0, 5647.0, 5525.0, 5470.0, 5454.0, 5603.0, 5523.0, 5375.0, 5521.0, 5363.0, 5607.0, 5332.0, 5630.0, 5445.0, 5637.0, 5354.0, 5350.0, 5266.0, 5425.0, 5448.0, 5300.0, 5318.0, 5382.0, 5365.0, 5631.0, 5604.0, 5428.0, 5589.0, 5325.0, 5616.0, 5573.0 (number of hits: 3)
2	5280	9	1	333	1	5699.0, 5634.0, 5300.0, 5430.0, 5521.0, 5584.0, 5398.0, 5689.0, 5639.0, 5482.0, 5631.0, 5306.0, 5368.0, 5662.0, 5287.0, 5440.0, 5535.0, 5548.0, 5453.0, 5465.0, 5582.0, 5506.0, 5661.0, 5567.0, 5363.0, 5294.0, 5369.0, 5329.0, 5617.0, 5376.0, 5454.0, 5505.0, 5538.0, 5487.0, 5621.0, 5577.0, 5534.0, 5274.0, 5426.0, 5470.0, 5626.0, 5580.0, 5316.0, 5587.0, 5610.0, 5381.0, 5676.0, 5476.0, 5611.0, 5519.0, 5455.0, 5599.0, 5690.0, 5512.0, 5515.0, 5389.0, 5594.0, 5715.0, 5258.0, 5644.0, 5671.0, 5388.0, 5328.0, 5669.0, 5688.0, 5406.0, 5501.0, 5386.0, 5684.0, 5251.0, 5468.0, 5253.0, 5509.0, 5504.0, 5391.0, 5452.0, 5271.0, 5514.0, 5624.0, 5460.0, 5320.0, 5375.0, 5627.0, 5488.0, 5322.0, 5350.0, 5297.0, 5668.0, 5355.0, 5615.0, 5390.0, 5277.0, 5658.0, 5422.0, 5486.0, 5495.0, 5356.0, 5720.0, 5528.0, 5405.0 (number of hits: 5)
3	5280	9	1	333	1	5449.0, 5707.0, 5622.0, 5691.0, 5392.0, 5504.0, 5599.0, 5288.0, 5493.0, 5354.0, 5467.0, 5636.0, 5604.0, 5495.0, 5383.0, 5699.0, 5317.0, 5345.0, 5501.0, 5705.0, 5417.0, 5634.0, 5710.0, 5689.0, 5464.0, 5414.0, 5703.0, 5370.0, 5474.0, 5715.0, 5496.0, 5722.0, 5539.0, 5397.0, 5290.0, 5452.0, 5473.0, 5391.0, 5329.0, 5308.0, 5481.0, 5403.0, 5653.0, 5518.0, 5620.0, 5603.0, 5522.0, 5692.0, 5585.0, 5482.0, 5526.0, 5313.0, 5565.0, 5655.0, 5453.0, 5265.0, 5302.0, 5270.0, 5401.0, 5610.0,

						5405.0, 5443.0, 5458.0, 5631.0, 5322.0, 5671.0, 5406.0, 5652.0, 5282.0, 5366.0, 5608.0, 5597.0, 5440.0, 5469.0, 5568.0, 5695.0, 5404.0, 5716.0, 5470.0, 5336.0, 5437.0, 5409.0, 5681.0, 5581.0, 5598.0, 5379.0, 5573.0, 5344.0, 5412.0, 5321.0, 5556.0, 5579.0, 5455.0, 5365.0, 5613.0, 5472.0, 5564.0, 5477.0, 5506.0, 5487.0 (number of hits: 5)
4	5280	9	1	333	1	5511.0, 5484.0, 5692.0, 5264.0, 5330.0, 5302.0, 5481.0, 5652.0, 5500.0, 5419.0, 5374.0, 5379.0, 5524.0, 5329.0, 5265.0, 5256.0, 5574.0, 5297.0, 5648.0, 5682.0, 5678.0, 5458.0, 5400.0, 5305.0, 5420.0, 5690.0, 5451.0, 5282.0, 5299.0, 5657.0, 5383.0, 5643.0, 5530.0, 5664.0, 5688.0, 5389.0, 5257.0, 5411.0, 5397.0, 5615.0, 5434.0, 5632.0, 5345.0, 5428.0, 5335.0, 5421.0, 5380.0, 5569.0, 5385.0, 5671.0, 5573.0, 5685.0, 5670.0, 5436.0, 5391.0, 5539.0, 5367.0, 5396.0, 5583.0, 5703.0, 5275.0, 5588.0, 5695.0, 5338.0, 5640.0, 5622.0, 5644.0, 5560.0, 5517.0, 5306.0, 5289.0, 5679.0, 5286.0, 5471.0, 5623.0, 5645.0, 5547.0, 5593.0, 5459.0, 5494.0, 5721.0, 5709.0, 5407.0, 5546.0, 5416.0, 5604.0, 5439.0, 5308.0, 5708.0, 5613.0, 5504.0, 5431.0, 5699.0, 5296.0, 5603.0, 5684.0, 5375.0, 5568.0, 5279.0, 5422.0 (number of hits: 9)
5	5280	9	1	333	1	5553.0, 5620.0, 5327.0, 5692.0, 5648.0, 5665.0, 5450.0, 5400.0, 5322.0, 5625.0, 5570.0, 5547.0, 5680.0, 5557.0, 5440.0, 5393.0, 5416.0, 5449.0, 5437.0, 5525.0, 5522.0, 5635.0, 5376.0, 5267.0, 5677.0, 5510.0, 5559.0, 5505.0, 5560.0, 5311.0, 5485.0, 5262.0, 5718.0, 5272.0, 5544.0, 5566.0, 5662.0, 5599.0, 5491.0, 5702.0, 5524.0, 5263.0, 5366.0, 5503.0, 5390.0, 5477.0, 5307.0, 5637.0, 5563.0, 5583.0, 5358.0, 5383.0, 5312.0, 5675.0, 5634.0, 5540.0, 5576.0, 5652.0, 5324.0, 5590.0, 5428.0, 5305.0, 5497.0, 5655.0, 5296.0, 5405.0, 5489.0, 5538.0, 5284.0, 5363.0, 5487.0, 5507.0, 5690.0, 5640.0, 5711.0, 5494.0, 5377.0, 5534.0, 5609.0, 5470.0, 5346.0, 5504.0, 5529.0, 5430.0, 5253.0, 5664.0, 5558.0, 5647.0, 5371.0, 5722.0, 5653.0, 5604.0, 5713.0, 5448.0, 5277.0, 5351.0, 5426.0, 5386.0, 5572.0, 5555.0 (number of hits: 5)
6	5280	9	1	333	1	5334.0, 5545.0, 5639.0, 5543.0, 5250.0, 5503.0, 5612.0, 5311.0, 5373.0, 5588.0, 5461.0, 5492.0, 5533.0, 5346.0, 5306.0, 5394.0, 5535.0, 5398.0, 5540.0, 5635.0, 5323.0, 5555.0, 5548.0, 5436.0, 5354.0, 5313.0, 5399.0, 5672.0, 5676.0, 5309.0, 5468.0, 5435.0, 5403.0, 5686.0, 5656.0, 5348.0, 5386.0, 5709.0, 5359.0, 5565.0,

						5673.0, 5349.0, 5456.0, 5695.0, 5371.0, 5432.0, 5464.0, 5471.0, 5402.0, 5425.0, 5717.0, 5325.0, 5350.0, 5475.0, 5721.0, 5563.0, 5478.0, 5384.0, 5518.0, 5715.0, 5517.0, 5631.0, 5699.0, 5389.0, 5459.0, 5328.0, 5273.0, 5690.0, 5466.0, 5315.0, 5351.0, 5516.0, 5515.0, 5300.0, 5259.0, 5643.0, 5488.0, 5566.0, 5641.0, 5521.0, 5714.0, 5704.0, 5638.0, 5622.0, 5620.0, 5446.0, 5716.0, 5504.0, 5671.0, 5705.0, 5640.0, 5447.0, 5477.0, 5267.0, 5441.0, 5700.0, 5258.0, 5269.0, 5438.0, 5407.0 (number of hits: 5)
7	5280	9	1	333	1	5420.0, 5478.0, 5650.0, 5673.0, 5519.0, 5638.0, 5288.0, 5337.0, 5597.0, 5720.0, 5604.0, 5347.0, 5531.0, 5250.0, 5627.0, 5659.0, 5397.0, 5643.0, 5477.0, 5688.0, 5430.0, 5712.0, 5515.0, 5622.0, 5584.0, 5612.0, 5589.0, 5377.0, 5502.0, 5607.0, 5548.0, 5549.0, 5335.0, 5554.0, 5517.0, 5264.0, 5485.0, 5328.0, 5382.0, 5368.0, 5620.0, 5590.0, 5332.0, 5345.0, 5459.0, 5486.0, 5559.0, 5537.0, 5402.0, 5266.0, 5560.0, 5326.0, 5429.0, 5479.0, 5418.0, 5606.0, 5252.0, 5375.0, 5562.0, 5579.0, 5569.0, 5336.0, 5566.0, 5254.0, 5664.0, 5636.0, 5452.0, 5453.0, 5722.0, 5261.0, 5573.0, 5317.0, 5701.0, 5488.0, 5322.0, 5696.0, 5313.0, 5435.0, 5577.0, 5481.0, 5671.0, 5693.0, 5715.0, 5697.0, 5426.0, 5403.0, 5416.0, 5315.0, 5360.0, 5357.0, 5525.0, 5323.0, 5393.0, 5516.0, 5615.0, 5369.0, 5300.0, 5304.0, 5704.0, 5542.0 (number of hits: 4)
8	5280	9	1	333	1	5612.0, 5375.0, 5445.0, 5622.0, 5304.0, 5690.0, 5295.0, 5500.0, 5306.0, 5358.0, 5495.0, 5594.0, 5695.0, 5670.0, 5696.0, 5558.0, 5354.0, 5618.0, 5586.0, 5651.0, 5342.0, 5345.0, 5503.0, 5291.0, 5460.0, 5514.0, 5303.0, 5678.0, 5481.0, 5350.0, 5489.0, 5538.0, 5723.0, 5714.0, 5283.0, 5274.0, 5559.0, 5544.0, 5451.0, 5315.0, 5699.0, 5265.0, 5693.0, 5589.0, 5384.0, 5340.0, 5429.0, 5368.0, 5450.0, 5410.0, 5457.0, 5681.0, 5250.0, 5461.0, 5448.0, 5563.0, 5267.0, 5659.0, 5709.0, 5669.0, 5653.0, 5328.0, 5452.0, 5343.0, 5488.0, 5426.0, 5676.0, 5324.0, 5656.0, 5505.0, 5511.0, 5674.0, 5422.0, 5636.0, 5330.0, 5404.0, 5640.0, 5440.0, 5561.0, 5352.0, 5425.0, 5417.0, 5668.0, 5479.0, 5616.0, 5411.0, 5539.0, 5692.0, 5482.0, 5633.0, 5664.0, 5601.0, 5660.0, 5430.0, 5394.0, 5513.0, 5658.0, 5605.0, 5346.0, 5606.0 (number of hits: 5)
9	5280	9	1	333	1	5587.0, 5356.0, 5364.0, 5694.0, 5691.0, 5641.0, 5355.0, 5336.0, 5609.0, 5366.0, 5650.0, 5549.0, 5339.0, 5603.0, 5604.0, 5314.0, 5509.0, 5662.0, 5556.0, 5324.0,

						5510.0, 5545.0, 5306.0, 5331.0, 5699.0, 5709.0, 5693.0, 5615.0, 5297.0, 5553.0, 5613.0, 5526.0, 5308.0, 5370.0, 5704.0, 5644.0, 5477.0, 5453.0, 5638.0, 5465.0, 5594.0, 5368.0, 5664.0, 5291.0, 5273.0, 5497.0, 5357.0, 5714.0, 5270.0, 5667.0, 5630.0, 5323.0, 5469.0, 5462.0, 5530.0, 5618.0, 5419.0, 5295.0, 5385.0, 5286.0, 5578.0, 5522.0, 5359.0, 5678.0, 5416.0, 5552.0, 5591.0, 5414.0, 5598.0, 5558.0, 5463.0, 5647.0, 5380.0, 5397.0, 5353.0, 5528.0, 5471.0, 5652.0, 5635.0, 5547.0, 5705.0, 5659.0, 5677.0, 5612.0, 5637.0, 5430.0, 5479.0, 5514.0, 5282.0, 5389.0, 5427.0, 5500.0, 5310.0, 5525.0, 5423.0, 5321.0, 5440.0, 5281.0, 5346.0, 5317.0 (number of hits: 8)
10	5280	9	1	333	1	5334.0, 5484.0, 5392.0, 5278.0, 5655.0, 5698.0, 5514.0, 5555.0, 5442.0, 5539.0, 5483.0, 5601.0, 5629.0, 5614.0, 5447.0, 5475.0, 5265.0, 5344.0, 5631.0, 5467.0, 5343.0, 5512.0, 5308.0, 5668.0, 5630.0, 5346.0, 5283.0, 5690.0, 5623.0, 5515.0, 5567.0, 5319.0, 5281.0, 5434.0, 5358.0, 5293.0, 5450.0, 5452.0, 5652.0, 5551.0, 5687.0, 5697.0, 5626.0, 5360.0, 5466.0, 5648.0, 5394.0, 5530.0, 5506.0, 5438.0, 5649.0, 5255.0, 5437.0, 5496.0, 5448.0, 5461.0, 5423.0, 5425.0, 5301.0, 5252.0, 5316.0, 5409.0, 5645.0, 5470.0, 5635.0, 5541.0, 5646.0, 5453.0, 5386.0, 5585.0, 5666.0, 5692.0, 5636.0, 5284.0, 5619.0, 5333.0, 5564.0, 5526.0, 5582.0, 5449.0, 5598.0, 5586.0, 5320.0, 5351.0, 5379.0, 5436.0, 5549.0, 5547.0, 5492.0, 5703.0, 5495.0, 5480.0, 5550.0, 5575.0, 5259.0, 5294.0, 5708.0, 5474.0, 5416.0, 5464.0 (number of hits: 4)
11	5280	9	1	333	1	5425.0, 5568.0, 5267.0, 5343.0, 5536.0, 5644.0, 5390.0, 5377.0, 5264.0, 5685.0, 5412.0, 5308.0, 5604.0, 5694.0, 5421.0, 5638.0, 5563.0, 5392.0, 5723.0, 5478.0, 5680.0, 5508.0, 5269.0, 5416.0, 5498.0, 5454.0, 5693.0, 5507.0, 5619.0, 5562.0, 5420.0, 5365.0, 5534.0, 5688.0, 5535.0, 5467.0, 5542.0, 5571.0, 5328.0, 5706.0, 5552.0, 5465.0, 5672.0, 5486.0, 5623.0, 5296.0, 5703.0, 5280.0, 5584.0, 5704.0, 5641.0, 5294.0, 5448.0, 5366.0, 5354.0, 5368.0, 5253.0, 5559.0, 5432.0, 5614.0, 5533.0, 5375.0, 5643.0, 5699.0, 5634.0, 5275.0, 5692.0, 5414.0, 5713.0, 5529.0, 5273.0, 5521.0, 5525.0, 5556.0, 5564.0, 5541.0, 5510.0, 5501.0, 5608.0, 5316.0, 5259.0, 5481.0, 5382.0, 5356.0, 5575.0, 5426.0, 5565.0, 5351.0, 5438.0, 5276.0, 5458.0, 5322.0, 5709.0, 5489.0, 5315.0, 5648.0, 5456.0, 5532.0, 5547.0, 5449.0 (number of hits: 3)

12	5280	9	1	333	1	5452.0, 5321.0, 5305.0, 5475.0, 5298.0, 5319.0, 5603.0, 5459.0, 5357.0, 5707.0, 5386.0, 5506.0, 5526.0, 5544.0, 5696.0, 5402.0, 5384.0, 5514.0, 5674.0, 5571.0, 5541.0, 5362.0, 5621.0, 5324.0, 5579.0, 5655.0, 5388.0, 5302.0, 5540.0, 5692.0, 5330.0, 5287.0, 5656.0, 5486.0, 5517.0, 5531.0, 5368.0, 5651.0, 5720.0, 5378.0, 5303.0, 5268.0, 5451.0, 5455.0, 5495.0, 5345.0, 5299.0, 5281.0, 5587.0, 5572.0, 5611.0, 5448.0, 5596.0, 5396.0, 5694.0, 5608.0, 5721.0, 5676.0, 5500.0, 5710.0, 5334.0, 5260.0, 5400.0, 5499.0, 5677.0, 5347.0, 5691.0, 5701.0, 5595.0, 5545.0, 5467.0, 5682.0, 5410.0, 5423.0, 5567.0, 5269.0, 5690.0, 5364.0, 5375.0, 5443.0, 5314.0, 5685.0, 5681.0, 5581.0, 5306.0, 5409.0, 5421.0, 5705.0, 5428.0, 5626.0, 5533.0, 5369.0, 5444.0, 5650.0, 5292.0, 5661.0, 5657.0, 5684.0, 5615.0, 5559.0 (number of hits: 9)
13	5280	9	1	333	1	5389.0, 5291.0, 5528.0, 5520.0, 5677.0, 5679.0, 5303.0, 5345.0, 5351.0, 5644.0, 5527.0, 5506.0, 5422.0, 5627.0, 5547.0, 5408.0, 5694.0, 5587.0, 5255.0, 5448.0, 5655.0, 5312.0, 5343.0, 5723.0, 5387.0, 5705.0, 5601.0, 5355.0, 5424.0, 5482.0, 5561.0, 5491.0, 5372.0, 5462.0, 5298.0, 5415.0, 5264.0, 5581.0, 5279.0, 5479.0, 5306.0, 5440.0, 5477.0, 5363.0, 5357.0, 5458.0, 5546.0, 5296.0, 5508.0, 5621.0, 5478.0, 5413.0, 5433.0, 5691.0, 5696.0, 5630.0, 5434.0, 5662.0, 5722.0, 5530.0, 5676.0, 5669.0, 5536.0, 5361.0, 5430.0, 5612.0, 5524.0, 5473.0, 5704.0, 5472.0, 5444.0, 5697.0, 5450.0, 5455.0, 5659.0, 5319.0, 5277.0, 5368.0, 5564.0, 5420.0, 5608.0, 5452.0, 5359.0, 5686.0, 5574.0, 5270.0, 5467.0, 5570.0, 5542.0, 5604.0, 5461.0, 5380.0, 5334.0, 5435.0, 5278.0, 5443.0, 5602.0, 5603.0, 5641.0, 5481.0 (number of hits: 6)
14	5280	9	1	333	1	5444.0, 5522.0, 5579.0, 5439.0, 5647.0, 5291.0, 5333.0, 5607.0, 5398.0, 5505.0, 5344.0, 5365.0, 5366.0, 5609.0, 5288.0, 5698.0, 5306.0, 5251.0, 5458.0, 5376.0, 5556.0, 5634.0, 5604.0, 5528.0, 5550.0, 5673.0, 5471.0, 5621.0, 5544.0, 5400.0, 5656.0, 5454.0, 5293.0, 5384.0, 5287.0, 5511.0, 5324.0, 5430.0, 5489.0, 5364.0, 5657.0, 5496.0, 5255.0, 5619.0, 5259.0, 5617.0, 5418.0, 5641.0, 5312.0, 5433.0, 5533.0, 5577.0, 5508.0, 5357.0, 5555.0, 5506.0, 5271.0, 5373.0, 5294.0, 5411.0, 5581.0, 5645.0, 5605.0, 5590.0, 5264.0, 5706.0, 5552.0, 5375.0, 5450.0, 5686.0, 5476.0, 5401.0, 5513.0, 5629.0, 5395.0, 5346.0, 5678.0, 5663.0, 5520.0, 5662.0, 5448.0, 5410.0, 5397.0, 5723.0, 5308.0,

						5394.0, 5473.0, 5509.0, 5715.0, 5301.0, 5354.0, 5493.0, 5447.0, 5585.0, 5591.0, 5396.0, 5602.0, 5391.0, 5512.0, 5481.0 (number of hits: 9)
15	5280	9	1	333	1	5686.0, 5308.0, 5268.0, 5453.0, 5404.0, 5325.0, 5492.0, 5568.0, 5690.0, 5318.0, 5251.0, 5428.0, 5347.0, 5630.0, 5426.0, 5653.0, 5437.0, 5348.0, 5288.0, 5522.0, 5516.0, 5356.0, 5269.0, 5572.0, 5577.0, 5707.0, 5297.0, 5500.0, 5650.0, 5446.0, 5420.0, 5344.0, 5361.0, 5587.0, 5573.0, 5431.0, 5588.0, 5478.0, 5433.0, 5253.0, 5411.0, 5541.0, 5322.0, 5534.0, 5611.0, 5661.0, 5680.0, 5618.0, 5557.0, 5300.0, 5721.0, 5398.0, 5406.0, 5623.0, 5633.0, 5562.0, 5647.0, 5412.0, 5416.0, 5685.0, 5503.0, 5286.0, 5294.0, 5555.0, 5701.0, 5539.0, 5425.0, 5427.0, 5663.0, 5671.0, 5377.0, 5676.0, 5330.0, 5670.0, 5600.0, 5669.0, 5357.0, 5506.0, 5345.0, 5537.0, 5631.0, 5713.0, 5468.0, 5460.0, 5415.0, 5554.0, 5447.0, 5465.0, 5604.0, 5556.0, 5558.0, 5542.0, 5493.0, 5429.0, 5393.0, 5320.0, 5593.0, 5419.0, 5566.0, 5360.0 (number of hits: 6)
16	5280	9	1	333	1	5283.0, 5641.0, 5605.0, 5629.0, 5396.0, 5535.0, 5374.0, 5430.0, 5482.0, 5470.0, 5335.0, 5578.0, 5514.0, 5670.0, 5571.0, 5294.0, 5432.0, 5711.0, 5420.0, 5387.0, 5542.0, 5314.0, 5448.0, 5455.0, 5688.0, 5407.0, 5596.0, 5691.0, 5709.0, 5532.0, 5695.0, 5653.0, 5429.0, 5404.0, 5598.0, 5723.0, 5701.0, 5561.0, 5327.0, 5632.0, 5464.0, 5466.0, 5359.0, 5291.0, 5421.0, 5489.0, 5428.0, 5667.0, 5683.0, 5375.0, 5423.0, 5323.0, 5486.0, 5717.0, 5380.0, 5694.0, 5268.0, 5451.0, 5322.0, 5391.0, 5274.0, 5559.0, 5465.0, 5337.0, 5658.0, 5548.0, 5501.0, 5560.0, 5583.0, 5392.0, 5627.0, 5540.0, 5479.0, 5474.0, 5576.0, 5592.0, 5332.0, 5351.0, 5355.0, 5551.0, 5616.0, 5676.0, 5376.0, 5289.0, 5331.0, 5636.0, 5298.0, 5536.0, 5524.0, 5343.0, 5447.0, 5393.0, 5408.0, 5285.0, 5496.0, 5655.0, 5265.0, 5664.0, 5413.0, 5498.0 (number of hits: 6)
17	5280	9	1	333	1	5277.0, 5625.0, 5690.0, 5295.0, 5426.0, 5422.0, 5424.0, 5463.0, 5299.0, 5307.0, 5357.0, 5527.0, 5371.0, 5296.0, 5697.0, 5686.0, 5428.0, 5623.0, 5513.0, 5455.0, 5289.0, 5549.0, 5278.0, 5514.0, 5474.0, 5684.0, 5530.0, 5379.0, 5477.0, 5668.0, 5471.0, 5356.0, 5526.0, 5538.0, 5720.0, 5605.0, 5571.0, 5305.0, 5609.0, 5472.0, 5505.0, 5415.0, 5302.0, 5274.0, 5387.0, 5540.0, 5633.0, 5430.0, 5440.0, 5333.0, 5380.0, 5384.0, 5709.0, 5692.0, 5309.0, 5406.0, 5473.0, 5317.0, 5550.0, 5361.0, 5264.0, 5520.0, 5716.0, 5548.0, 5708.0,

						5313.0, 5407.0, 5621.0, 5421.0, 5334.0, 5490.0, 5653.0, 5666.0, 5501.0, 5462.0, 5344.0, 5335.0, 5408.0, 5632.0, 5395.0, 5626.0, 5491.0, 5604.0, 5439.0, 5261.0, 5398.0, 5556.0, 5445.0, 5678.0, 5510.0, 5345.0, 5627.0, 5432.0, 5446.0, 5677.0, 5662.0, 5687.0, 5544.0, 5553.0, 5695.0 (number of hits: 9)
18	5280	9	1	333	1	5455.0, 5620.0, 5559.0, 5607.0, 5343.0, 5346.0, 5575.0, 5685.0, 5276.0, 5649.0, 5577.0, 5325.0, 5546.0, 5689.0, 5462.0, 5403.0, 5592.0, 5528.0, 5529.0, 5335.0, 5502.0, 5599.0, 5563.0, 5284.0, 5326.0, 5675.0, 5475.0, 5549.0, 5654.0, 5425.0, 5618.0, 5380.0, 5653.0, 5554.0, 5704.0, 5317.0, 5713.0, 5703.0, 5710.0, 5421.0, 5283.0, 5388.0, 5700.0, 5634.0, 5611.0, 5527.0, 5500.0, 5330.0, 5323.0, 5434.0, 5384.0, 5268.0, 5534.0, 5253.0, 5389.0, 5408.0, 5351.0, 5669.0, 5525.0, 5516.0, 5596.0, 5465.0, 5334.0, 5493.0, 5576.0, 5551.0, 5298.0, 5652.0, 5256.0, 5394.0, 5583.0, 5381.0, 5294.0, 5678.0, 5469.0, 5568.0, 5273.0, 5262.0, 5687.0, 5372.0, 5564.0, 5377.0, 5544.0, 5340.0, 5724.0, 5429.0, 5280.0, 5450.0, 5428.0, 5674.0, 5598.0, 5515.0, 5318.0, 5720.0, 5435.0, 5668.0, 5307.0, 5659.0, 5366.0, 5622.0 (number of hits: 3)
19	5280	9	1	333	1	5437.0, 5396.0, 5607.0, 5375.0, 5679.0, 5698.0, 5333.0, 5678.0, 5400.0, 5412.0, 5634.0, 5545.0, 5494.0, 5277.0, 5551.0, 5305.0, 5483.0, 5347.0, 5447.0, 5704.0, 5603.0, 5480.0, 5274.0, 5708.0, 5533.0, 5520.0, 5561.0, 5649.0, 5475.0, 5620.0, 5515.0, 5354.0, 5451.0, 5563.0, 5559.0, 5265.0, 5505.0, 5492.0, 5440.0, 5432.0, 5610.0, 5668.0, 5286.0, 5695.0, 5588.0, 5414.0, 5463.0, 5436.0, 5572.0, 5312.0, 5553.0, 5581.0, 5677.0, 5306.0, 5712.0, 5525.0, 5583.0, 5395.0, 5386.0, 5275.0, 5478.0, 5590.0, 5293.0, 5600.0, 5565.0, 5469.0, 5593.0, 5359.0, 5655.0, 5666.0, 5625.0, 5638.0, 5410.0, 5470.0, 5455.0, 5498.0, 5504.0, 5435.0, 5302.0, 5495.0, 5555.0, 5589.0, 5558.0, 5422.0, 5688.0, 5424.0, 5428.0, 5605.0, 5664.0, 5672.0, 5707.0, 5304.0, 5539.0, 5646.0, 5477.0, 5280.0, 5349.0, 5617.0, 5485.0, 5706.0 (number of hits: 7)
20	5280	9	1	333	1	5348.0, 5447.0, 5332.0, 5476.0, 5541.0, 5525.0, 5386.0, 5475.0, 5329.0, 5264.0, 5477.0, 5315.0, 5505.0, 5669.0, 5278.0, 5465.0, 5498.0, 5588.0, 5510.0, 5583.0, 5452.0, 5513.0, 5330.0, 5405.0, 5657.0, 5672.0, 5656.0, 5677.0, 5280.0, 5491.0, 5362.0, 5560.0, 5305.0, 5520.0, 5468.0, 5643.0, 5473.0, 5319.0, 5634.0, 5633.0, 5635.0, 5645.0, 5267.0, 5689.0, 5692.0,

						5327.0, 5526.0, 5570.0, 5717.0, 5556.0, 5393.0, 5400.0, 5451.0, 5425.0, 5521.0, 5479.0, 5407.0, 5586.0, 5270.0, 5350.0, 5353.0, 5718.0, 5641.0, 5483.0, 5576.0, 5355.0, 5441.0, 5266.0, 5363.0, 5492.0, 5251.0, 5351.0, 5642.0, 5580.0, 5497.0, 5449.0, 5458.0, 5648.0, 5345.0, 5427.0, 5511.0, 5630.0, 5456.0, 5647.0, 5415.0, 5373.0, 5561.0, 5527.0, 5691.0, 5638.0, 5285.0, 5262.0, 5652.0, 5426.0, 5501.0, 5339.0, 5306.0, 5516.0, 5621.0, 5302.0 (number of hits: 4)
21	5280	9	1	333	1	5253.0, 5272.0, 5438.0, 5285.0, 5625.0, 5682.0, 5427.0, 5582.0, 5276.0, 5703.0, 5500.0, 5342.0, 5577.0, 5383.0, 5646.0, 5544.0, 5628.0, 5558.0, 5514.0, 5510.0, 5651.0, 5677.0, 5322.0, 5291.0, 5353.0, 5470.0, 5552.0, 5426.0, 5296.0, 5437.0, 5617.0, 5546.0, 5712.0, 5255.0, 5328.0, 5705.0, 5655.0, 5618.0, 5366.0, 5511.0, 5621.0, 5550.0, 5563.0, 5458.0, 5261.0, 5623.0, 5599.0, 5707.0, 5431.0, 5549.0, 5346.0, 5456.0, 5304.0, 5257.0, 5321.0, 5565.0, 5564.0, 5502.0, 5329.0, 5714.0, 5539.0, 5535.0, 5708.0, 5647.0, 5459.0, 5335.0, 5681.0, 5492.0, 5654.0, 5404.0, 5661.0, 5413.0, 5622.0, 5402.0, 5688.0, 5591.0, 5332.0, 5355.0, 5723.0, 5679.0, 5252.0, 5635.0, 5278.0, 5271.0, 5481.0, 5444.0, 5352.0, 5697.0, 5597.0, 5525.0, 5389.0, 5517.0, 5367.0, 5393.0, 5664.0, 5405.0, 5349.0, 5606.0, 5515.0, 5641.0 (number of hits: 4)
22	5280	9	1	333	1	5612.0, 5457.0, 5687.0, 5334.0, 5539.0, 5657.0, 5315.0, 5445.0, 5415.0, 5584.0, 5589.0, 5356.0, 5479.0, 5462.0, 5623.0, 5711.0, 5256.0, 5684.0, 5323.0, 5556.0, 5353.0, 5460.0, 5271.0, 5525.0, 5405.0, 5578.0, 5288.0, 5533.0, 5458.0, 5654.0, 5495.0, 5345.0, 5681.0, 5311.0, 5715.0, 5600.0, 5269.0, 5487.0, 5339.0, 5577.0, 5572.0, 5582.0, 5289.0, 5291.0, 5591.0, 5417.0, 5309.0, 5264.0, 5707.0, 5294.0, 5502.0, 5380.0, 5629.0, 5456.0, 5416.0, 5640.0, 5564.0, 5436.0, 5581.0, 5515.0, 5530.0, 5486.0, 5501.0, 5536.0, 5534.0, 5696.0, 5284.0, 5660.0, 5571.0, 5535.0, 5610.0, 5329.0, 5614.0, 5278.0, 5574.0, 5399.0, 5369.0, 5667.0, 5444.0, 5343.0, 5316.0, 5498.0, 5338.0, 5367.0, 5318.0, 5384.0, 5267.0, 5488.0, 5529.0, 5673.0, 5637.0, 5537.0, 5395.0, 5252.0, 5300.0, 5708.0, 5692.0, 5510.0, 5483.0, 5378.0 (number of hits: 7)
23	5280	9	1	333	1	5427.0, 5542.0, 5338.0, 5580.0, 5308.0, 5261.0, 5325.0, 5605.0, 5658.0, 5724.0, 5473.0, 5287.0, 5543.0, 5720.0, 5359.0, 5570.0, 5511.0, 5257.0, 5489.0, 5526.0, 5584.0, 5407.0, 5693.0, 5660.0, 5252.0,

						5678.0, 5553.0, 5641.0, 5340.0, 5590.0, 5483.0, 5629.0, 5547.0, 5298.0, 5673.0, 5315.0, 5630.0, 5593.0, 5408.0, 5437.0, 5368.0, 5411.0, 5290.0, 5320.0, 5698.0, 5663.0, 5689.0, 5571.0, 5387.0, 5598.0, 5446.0, 5551.0, 5280.0, 5404.0, 5624.0, 5390.0, 5389.0, 5297.0, 5522.0, 5548.0, 5346.0, 5485.0, 5292.0, 5433.0, 5364.0, 5306.0, 5486.0, 5441.0, 5529.0, 5610.0, 5607.0, 5587.0, 5415.0, 5530.0, 5682.0, 5388.0, 5330.0, 5665.0, 5721.0, 5458.0, 5583.0, 5622.0, 5618.0, 5609.0, 5358.0, 5652.0, 5655.0, 5367.0, 5502.0, 5442.0, 5336.0, 5620.0, 5319.0, 5361.0, 5354.0, 5429.0, 5470.0, 5492.0, 5640.0, 5353.0 (number of hits: 7)
24	5280	9	1	333	1	5694.0, 5358.0, 5552.0, 5305.0, 5469.0, 5259.0, 5364.0, 5435.0, 5690.0, 5448.0, 5444.0, 5656.0, 5550.0, 5431.0, 5484.0, 5563.0, 5514.0, 5256.0, 5595.0, 5719.0, 5467.0, 5292.0, 5680.0, 5335.0, 5433.0, 5570.0, 5495.0, 5557.0, 5709.0, 5513.0, 5662.0, 5271.0, 5408.0, 5314.0, 5577.0, 5432.0, 5410.0, 5711.0, 5621.0, 5318.0, 5375.0, 5427.0, 5266.0, 5639.0, 5702.0, 5508.0, 5349.0, 5425.0, 5397.0, 5556.0, 5529.0, 5503.0, 5280.0, 5695.0, 5388.0, 5475.0, 5568.0, 5652.0, 5718.0, 5459.0, 5348.0, 5492.0, 5685.0, 5489.0, 5576.0, 5706.0, 5309.0, 5386.0, 5645.0, 5371.0, 5321.0, 5538.0, 5385.0, 5308.0, 5704.0, 5289.0, 5251.0, 5460.0, 5481.0, 5592.0, 5523.0, 5402.0, 5651.0, 5315.0, 5393.0, 5628.0, 5409.0, 5629.0, 5698.0, 5337.0, 5532.0, 5599.0, 5387.0, 5541.0, 5638.0, 5423.0, 5498.0, 5701.0, 5464.0, 5297.0 (number of hits: 7)
25	5280	9	1	333	1	5614.0, 5284.0, 5722.0, 5634.0, 5664.0, 5603.0, 5609.0, 5477.0, 5458.0, 5561.0, 5489.0, 5366.0, 5651.0, 5619.0, 5355.0, 5419.0, 5557.0, 5532.0, 5334.0, 5327.0, 5271.0, 5518.0, 5573.0, 5618.0, 5315.0, 5628.0, 5410.0, 5553.0, 5336.0, 5543.0, 5637.0, 5631.0, 5279.0, 5482.0, 5495.0, 5517.0, 5574.0, 5679.0, 5432.0, 5282.0, 5252.0, 5390.0, 5277.0, 5568.0, 5371.0, 5412.0, 5278.0, 5450.0, 5362.0, 5510.0, 5266.0, 5255.0, 5695.0, 5281.0, 5304.0, 5388.0, 5676.0, 5690.0, 5666.0, 5324.0, 5516.0, 5580.0, 5460.0, 5499.0, 5447.0, 5604.0, 5386.0, 5389.0, 5263.0, 5408.0, 5709.0, 5617.0, 5587.0, 5348.0, 5657.0, 5644.0, 5508.0, 5301.0, 5344.0, 5338.0, 5260.0, 5669.0, 5350.0, 5396.0, 5708.0, 5659.0, 5401.0, 5612.0, 5341.0, 5663.0, 5718.0, 5466.0, 5503.0, 5570.0, 5642.0, 5560.0, 5426.0, 5563.0, 5342.0, 5655.0 (number of hits: 2)
26	5280	9	1	333	1	5440.0, 5399.0, 5556.0, 5679.0, 5370.0,

						5480.0, 5588.0, 5294.0, 5687.0, 5704.0, 5316.0, 5423.0, 5618.0, 5503.0, 5335.0, 5551.0, 5639.0, 5285.0, 5482.0, 5579.0, 5255.0, 5384.0, 5323.0, 5609.0, 5669.0, 5343.0, 5622.0, 5404.0, 5299.0, 5386.0, 5326.0, 5708.0, 5477.0, 5607.0, 5304.0, 5288.0, 5520.0, 5593.0, 5491.0, 5366.0, 5351.0, 5648.0, 5591.0, 5273.0, 5340.0, 5397.0, 5303.0, 5686.0, 5308.0, 5329.0, 5671.0, 5489.0, 5608.0, 5527.0, 5610.0, 5345.0, 5362.0, 5603.0, 5300.0, 5253.0, 5430.0, 5569.0, 5578.0, 5637.0, 5402.0, 5707.0, 5623.0, 5547.0, 5357.0, 5661.0, 5318.0, 5393.0, 5493.0, 5439.0, 5552.0, 5352.0, 5626.0, 5654.0, 5680.0, 5583.0, 5628.0, 5474.0, 5574.0, 5657.0, 5287.0, 5401.0, 5389.0, 5685.0, 5257.0, 5631.0, 5672.0, 5539.0, 5644.0, 5358.0, 5470.0, 5324.0, 5446.0, 5432.0, 5464.0, 5537.0 (number of hits: 9)
27	5280	9	1	333	1	5388.0, 5544.0, 5621.0, 5687.0, 5309.0, 5300.0, 5649.0, 5458.0, 5299.0, 5567.0, 5411.0, 5324.0, 5312.0, 5305.0, 5615.0, 5543.0, 5286.0, 5423.0, 5564.0, 5253.0, 5369.0, 5400.0, 5440.0, 5266.0, 5380.0, 5679.0, 5693.0, 5542.0, 5579.0, 5325.0, 5517.0, 5368.0, 5706.0, 5658.0, 5464.0, 5514.0, 5310.0, 5328.0, 5434.0, 5528.0, 5469.0, 5274.0, 5599.0, 5315.0, 5683.0, 5439.0, 5569.0, 5586.0, 5272.0, 5396.0, 5588.0, 5702.0, 5447.0, 5523.0, 5520.0, 5320.0, 5415.0, 5392.0, 5377.0, 5656.0, 5468.0, 5344.0, 5489.0, 5372.0, 5281.0, 5330.0, 5714.0, 5576.0, 5631.0, 5672.0, 5398.0, 5632.0, 5497.0, 5256.0, 5262.0, 5283.0, 5409.0, 5427.0, 5265.0, 5655.0, 5577.0, 5254.0, 5654.0, 5535.0, 5689.0, 5622.0, 5522.0, 5334.0, 5349.0, 5574.0, 5684.0, 5386.0, 5651.0, 5443.0, 5557.0, 5446.0, 5472.0, 5635.0, 5612.0, 5451.0 (number of hits: 7)
28	5280	9	1	333	1	5394.0, 5550.0, 5417.0, 5526.0, 5425.0, 5539.0, 5392.0, 5561.0, 5471.0, 5396.0, 5715.0, 5696.0, 5386.0, 5502.0, 5430.0, 5314.0, 5566.0, 5487.0, 5673.0, 5307.0, 5337.0, 5581.0, 5699.0, 5513.0, 5607.0, 5572.0, 5657.0, 5299.0, 5499.0, 5253.0, 5468.0, 5381.0, 5367.0, 5556.0, 5463.0, 5605.0, 5630.0, 5633.0, 5553.0, 5624.0, 5709.0, 5439.0, 5622.0, 5327.0, 5717.0, 5710.0, 5656.0, 5603.0, 5293.0, 5312.0, 5646.0, 5545.0, 5478.0, 5655.0, 5333.0, 5461.0, 5505.0, 5279.0, 5528.0, 5491.0, 5564.0, 5374.0, 5308.0, 5645.0, 5330.0, 5594.0, 5672.0, 5610.0, 5618.0, 5606.0, 5426.0, 5625.0, 5372.0, 5476.0, 5686.0, 5400.0, 5492.0, 5524.0, 5398.0, 5257.0, 5495.0, 5507.0, 5389.0, 5695.0, 5354.0, 5546.0, 5549.0, 5490.0, 5406.0, 5384.0,

						5664.0, 5614.0, 5262.0, 5355.0, 5706.0, 5676.0, 5586.0, 5258.0, 5323.0, 5544.0 (number of hits: 6)
29	5280	9	1	333	1	5483.0, 5321.0, 5613.0, 5668.0, 5697.0, 5348.0, 5524.0, 5672.0, 5379.0, 5493.0, 5319.0, 5254.0, 5333.0, 5262.0, 5723.0, 5716.0, 5484.0, 5525.0, 5592.0, 5540.0, 5334.0, 5256.0, 5464.0, 5298.0, 5338.0, 5538.0, 5519.0, 5626.0, 5365.0, 5564.0, 5588.0, 5641.0, 5497.0, 5534.0, 5607.0, 5552.0, 5289.0, 5272.0, 5633.0, 5545.0, 5506.0, 5422.0, 5675.0, 5386.0, 5482.0, 5438.0, 5596.0, 5691.0, 5662.0, 5683.0, 5405.0, 5671.0, 5330.0, 5518.0, 5441.0, 5460.0, 5325.0, 5623.0, 5412.0, 5341.0, 5507.0, 5377.0, 5603.0, 5566.0, 5698.0, 5543.0, 5291.0, 5602.0, 5456.0, 5705.0, 5703.0, 5606.0, 5370.0, 5300.0, 5575.0, 5312.0, 5257.0, 5400.0, 5687.0, 5323.0, 5676.0, 5357.0, 5565.0, 5429.0, 5287.0, 5634.0, 5444.0, 5571.0, 5396.0, 5387.0, 5407.0, 5328.0, 5361.0, 5356.0, 5399.0, 5625.0, 5709.0, 5704.0, 5351.0, 5389.0 (number of hits: 6)
30	5280	9	1	333	1	5448.0, 5256.0, 5683.0, 5343.0, 5706.0, 5717.0, 5592.0, 5265.0, 5314.0, 5582.0, 5476.0, 5444.0, 5252.0, 5641.0, 5653.0, 5440.0, 5577.0, 5288.0, 5710.0, 5366.0, 5373.0, 5301.0, 5689.0, 5390.0, 5345.0, 5267.0, 5277.0, 5505.0, 5658.0, 5570.0, 5307.0, 5578.0, 5703.0, 5532.0, 5414.0, 5405.0, 5723.0, 5302.0, 5520.0, 5319.0, 5346.0, 5724.0, 5601.0, 5722.0, 5308.0, 5326.0, 5290.0, 5620.0, 5666.0, 5384.0, 5347.0, 5394.0, 5539.0, 5431.0, 5363.0, 5311.0, 5389.0, 5519.0, 5426.0, 5446.0, 5610.0, 5617.0, 5503.0, 5541.0, 5615.0, 5478.0, 5590.0, 5623.0, 5489.0, 5449.0, 5354.0, 5429.0, 5502.0, 5451.0, 5467.0, 5551.0, 5323.0, 5602.0, 5562.0, 5526.0, 5552.0, 5693.0, 5599.0, 5353.0, 5715.0, 5536.0, 5271.0, 5481.0, 5385.0, 5471.0, 5686.0, 5447.0, 5572.0, 5627.0, 5486.0, 5395.0, 5647.0, 5436.0, 5685.0, 5403.0 (number of hits: 8)

5580 MHz, 20 MHz Bandwidth

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

Please refer to the following statistical tables:

5580 MHz, 20 MHz Bandwidth**Table-1A/1B Radar Type 1A/1B Statistical Performance**

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5580	95	1	558	1
2	5580	86	1	618	1
3	5580	63	1	838	1
4	5580	83	1	638	1
5	5580	72	1	738	1
6	5580	99	1	538	1
7	5580	61	1	878	1
8	5580	65	1	818	1
9	5580	57	1	938	1
10	5580	89	1	598	1
11	5580	68	1	778	1
12	5580	70	1	758	1
13	5580	92	1	578	1
14	5580	81	1	658	1
15	5580	58	1	918	1
16	5580	33	1	1631	1
17	5580	24	1	2267	1
18	5580	36	1	1475	1
19	5580	25	1	2170	1
20	5580	47	1	1133	1
21	5580	22	1	2424	1
22	5580	67	1	797	1
23	5580	22	1	2468	1
24	5580	30	1	1800	1
25	5580	61	1	877	1
26	5580	81	1	657	1
27	5580	18	1	3004	1
28	5580	58	1	916	1
29	5580	28	1	1933	1
30	5580	28	1	1900	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	5580	26	4.1	204	1
2	5580	29	4.3	176	1
3	5580	26	3.8	185	1
4	5580	23	3.7	176	1
5	5580	26	1.6	203	1
6	5580	28	2.8	157	1
7	5580	25	4.6	177	1
8	5580	29	4.6	155	1
9	5580	28	3.7	204	1
10	5580	24	1.1	196	1
11	5580	26	3.8	200	1
12	5580	29	2.5	186	1
13	5580	24	1.3	215	1
14	5580	29	2.4	191	1
15	5580	25	1.7	222	1
16	5580	27	1.5	219	1
17	5580	24	4.9	220	1
18	5580	24	1.6	197	1
19	5580	28	1.1	224	1
20	5580	24	1.4	183	1
21	5580	24	1.9	197	1
22	5580	28	2.8	193	1
23	5580	26	2.3	167	1
24	5580	23	3.3	165	1
25	5580	28	1.7	218	1
26	5580	23	1.3	198	1
27	5580	28	2.5	229	1
28	5580	24	3.2	199	1
29	5580	29	4.8	212	1
30	5580	24	3.2	171	1
Detection Percentage: 100 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5580	17	9.2	450	1
2	5580	17	8.5	277	1
3	5580	16	8.7	370	1
4	5580	17	9.3	404	1
5	5580	18	7.3	228	1
6	5580	16	7.4	352	1
7	5580	17	6.8	473	1
8	5580	17	6.3	442	1
9	5580	16	9	221	1
10	5580	17	8.2	260	1
11	5580	18	6.5	286	1
12	5580	16	8.2	419	1
13	5580	16	6.1	346	1
14	5580	16	7.9	270	1
15	5580	16	10	469	1
16	5580	18	7.4	260	1
17	5580	18	9.9	433	1
18	5580	18	9.3	243	1
19	5580	16	9.6	206	1
20	5580	18	7.3	488	1
21	5580	16	6.9	442	1
22	5580	18	8.5	330	1
23	5580	18	9.6	274	1
24	5580	16	8.4	434	1
25	5580	17	7.2	241	1
26	5580	16	8.4	459	1
27	5580	18	8.7	342	1
28	5580	17	7.3	414	1
29	5580	16	6.1	322	1
30	5580	17	8.4	427	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	5580	13	15.2	251	1
2	5580	16	12	259	1
3	5580	14	19.4	391	1
4	5580	12	19.2	234	1
5	5580	14	19.9	214	1
6	5580	14	17.7	252	1
7	5580	16	15.9	203	1
8	5580	12	12.1	251	1
9	5580	15	12.8	438	1
10	5580	15	19.1	205	1
11	5580	15	17.6	401	1
12	5580	15	16.4	260	1
13	5580	12	14.4	205	1
14	5580	15	11.9	341	1
15	5580	15	13.2	203	1
16	5580	12	15.4	336	1
17	5580	12	11.6	310	1
18	5580	14	19.5	432	1
19	5580	14	15.4	318	1
20	5580	13	16.4	441	1
21	5580	14	15.6	454	1
22	5580	15	18.8	213	1
23	5580	15	17.7	389	1
24	5580	16	12.2	200	1
25	5580	15	15.8	263	1
26	5580	15	17.5	287	1
27	5580	13	19.4	309	1
28	5580	13	16	230	1
29	5580	12	15.9	426	1
30	5580	14	17.5	274	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	7	51			0.28347	1
1	2	13	92.6	1701		1.970389	
2	2	14	75.4	1426		3.285987	
3	2	8	86.3	1606		4.58873	
4	1	19	73.2			4.804114	
5	1	12	88.2			7.175784	
6	2	15	86.8	1074		8.36551	
7	1	14	71			9.173278	
8	1	18	81.1			10.203056	
9	2	15	75.3	1098		11.012219	

Bin5 Statistics 2

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	13	55.3	1716	1492	0.251583	1
1	3	18	61.2	1110	1994	1.246681	
2	2	13	99.1	1513		1.413442	
3	2	11	80.5	1140		2.799101	
4	2	17	72.3	1417		3.272161	
5	3	8	71.5	1116	1819	3.551542	
6	2	10	56.6	1247		4.536687	
7	2	10	95.5	1494		5.2358	
8	2	6	55.9	1963		6.143912	
9	2	6	93.3	1950		6.820879	
10	1	6	87.2			7.306004	
11	2	18	50.8	1739		8.00697	
12	2	9	76.1	1665		8.82319	
13	2	18	51.8	1946		9.85703	
14	2	13	99.1	1264		10.139762	
15	3	16	68.5	1741	1214	10.931565	
16	3	11	54.6	1087	1270	11.614915	

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	14	83	1622		0.195504	1
1	2	14	90.7	1451		1.178986	
2	1	10	86.7			1.420326	
3	2	19	53	1965		2.557535	
4	3	18	89.8	1479	1130	3.009672	
5	2	16	89.6	1229		3.743297	
6	2	8	56.5	1552		4.26165	
7	2	12	87.7	1347		4.968552	
8	2	18	75.2	1543		5.803179	
9	2	16	74.8	1365		6.967174	
10	3	5	63.5	1744	1280	7.679464	
11	2	9	75.4	1350		8.214411	
12	1	15	75.6			8.785726	
13	2	19	80.7	1506		9.560036	
14	1	8	70.3			10.397998	
15	3	12	76	1874	1475	11.089112	
16	2	15	75.1	1783		11.553316	

Bin5 Statistics 4

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	19	66.3	1216	1092	0.705998	1
1	3	8	58.6	1210	1763	1.984424	
2	1	9	86.7			3.242252	
3	3	6	59.1	1718	1359	4.405908	
4	1	9	63.7			5.291207	
5	2	17	61.2	1769		6.957963	
6	2	8	60.4	1759		8.300438	
7	1	20	67.2			9.33927	
8	2	19	98.9	1472		10.586619	
9	2	6	59.6	1171		11.555931	

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	94.5	1244		0.567234	1
1	2	19	83	1498		1.838165	
2	2	11	80.9	1742		2.90965	
3	1	11	57.1			4.274241	
4	1	14	85.6			6.170906	
5	1	7	98.2			6.97805	
6	2	6	62.1	1611		8.638999	
7	1	15	95.8			9.623161	
8	1	10	62.1			11.864074	

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	13	68			1.235331	1
1	1	18	95.7			2.342152	
2	2	15	97.2	1632		3.894762	
3	2	17	65.5	1194		5.09425	
4	1	20	91.7			6.467345	
5	2	6	50.3	1944		8.289359	
6	1	11	76.1			9.131512	
7	2	7	67.5	1152		11.769499	

Bin5 Statistics 7

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	15	84.9	1493		0.741461	1
1	2	11	93.4	1763		1.020402	
2	2	19	86.3	1132		2.245821	
3	2	7	98.7	1786		2.708792	
4	1	6	87.3			3.567353	
5	2	16	99.4	1188		4.882754	
6	1	20	60.8			5.800352	
7	2	11	77.3	1967		6.039937	
8	1	9	61.3			7.267429	
9	1	18	80.3			8.120638	
10	2	19	61.1	1087		8.985867	
11	3	10	50	1873	1690	9.827422	
12	3	13	54.8	1284	1790	11.124052	
13	2	5	53.9	1366		11.748633	

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	8	89.6	1431		1.280352	1
1	1	9	82.3			1.40253	
2	2	8	77.1	1833		2.712905	
3	1	12	66.2			5.222524	
4	2	20	93.9	1449		5.602104	
5	1	8	91			7.307107	
6	1	10	50.1			9.15169	
7	2	7	95.9	1125		10.380957	
8	1	8	76.8			11.356577	

Bin5 Statistics 9

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	6	86	1317	1776	0.504961	1
1	1	12	84			1.180905	
2	3	13	97.7	1754	1110	2.430489	
3	2	8	56.1	1169		3.611648	
4	2	5	57.8	1825		4.153357	
5	2	8	67	1637		5.276266	
6	3	15	94.7	1613	1753	5.615012	
7	3	13	81.4	1638	1196	6.765385	
8	2	11	61	1496		7.500259	
9	1	15	62.8			9.172929	
10	2	14	98.9	1727		9.694571	
11	2	15	96.8	1746		10.857366	
12	3	19	58.4	1518	1490	11.231625	

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	14	69.6	1746		0.276817	1
1	2	10	97.8	1460		1.508062	
2	2	11	64.2	1906		3.087171	
3	1	15	95.5			3.757899	
4	1	5	99.8			4.444818	
5	2	14	56.3	1884		6.499481	
6	2	18	86.2	1375		6.553261	
7	2	9	77.1	1836		8.080128	
8	3	19	67.7	1370	1971	9.025313	
9	1	18	64.5			10.417188	
10	2	20	80	1425		11.155493	

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	11	53.7	1275		0.995761	1
1	1	11	87.9			2.157405	
2	1	19	73.6			2.986677	
3	1	11	71.3			3.844542	
4	2	10	85.6	1323		4.564234	
5	3	16	92.3	1379	1448	5.702823	
6	2	10	83	1905		7.486122	
7	2	13	76.9	1303		8.094748	
8	2	9	50.1	1706		8.81067	
9	1	12	79.7			9.947362	
10	3	19	72.1	1932	1297	11.860124	

Bin5 Statistics 12

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	16	62.7	1627	1626	0.563095	1
1	1	16	96.4			1.396932	
2	2	16	96.2	1379		2.110207	
3	3	15	61.9	1944	1157	2.136885	
4	2	12	69.4	1901		3.438558	
5	2	12	59.2	1708		3.557213	
6	3	15	91	1244	1540	4.606158	
7	2	6	59.5	1856		4.975	
8	2	17	56.7	1331		5.894057	
9	2	8	54.4	1994		6.496763	
10	1	15	70.3			7.623858	
11	2	16	94.9	1672		8.302568	
12	2	14	89.4	1803		9.103443	
13	2	18	97.8	1064		9.850768	
14	2	10	59.3	1872		10.452356	
15	3	7	70.5	1797	1950	10.64211	
16	2	14	81.3	1093		11.323985	

Bin5 Statistics 13

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	19	73.1			1.041467	1
1	1	12	81			1.428714	
2	2	13	95.7	1797		2.76925	
3	3	18	96.9	1925	1119	5.163731	
4	2	18	75.8	1768		6.276262	
5	3	20	73.2	1541	1747	7.807991	
6	2	11	74.8	1501		8.001744	
7	2	7	57.9	1119		10.47569	
8	1	15	54.9			10.903495	

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	77.1	1596		0.405395	1
1	3	11	74.3	1765	1904	2.266638	
2	3	15	79.4	1066	1228	3.229102	
3	2	12	91.2	1763		4.685466	
4	2	15	69.8	1593		5.806637	
5	2	20	70.8	1477		6.753011	
6	3	6	81.2	1613	1282	8.203816	
7	3	18	63.3	1727	1822	8.549258	
8	3	7	68.6	1033	1774	10.779424	
9	2	16	57.7	1825		10.953026	

Bin5 Statistics 15

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	17	79.3			0.338407	1
1	2	7	91.6	1878		1.615216	
2	1	12	61.8			2.703989	
3	3	12	64.7	1299	1614	3.368198	
4	1	12	70.3			5.179787	
5	2	15	84	1527		6.452032	
6	2	7	77.2	1212		7.222177	
7	1	7	52.9			7.925989	
8	1	15	74.6			9.377025	
9	2	8	99	1924		10.140622	
10	3	14	78.1	1134	1143	11.479584	

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	81	1412		0.64912	1
1	2	16	72.7	1359		1.238989	
2	2	15	60.2	1216		2.426312	
3	2	19	56.9	1616		3.281492	
4	1	18	88.9			3.816846	
5	2	11	89	1858		5.158749	
6	2	13	60.4	1482		5.68815	
7	2	9	79.7	1924		6.961422	
8	2	17	74.5	1766		7.822348	
9	1	10	94.2			8.716757	
10	1	8	68.5			9.846259	
11	3	11	97.5	1620	1239	10.658259	
12	2	19	67.3	1098		11.561829	

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	96.7	1406		0.703057	1
1	3	15	69.2	1694	1723	1.585912	
2	2	13	77.4	1824		2.770911	
3	3	14	95.7	1758	1931	4.126722	
4	1	8	85.3			4.845488	
5	1	8	74.2			5.963461	
6	3	20	77.9	1746	1376	7.57449	
7	3	7	53.6	1844	1221	7.789526	
8	3	14	54.8	1010	1619	8.875232	
9	3	8	96	1266	1055	10.731342	
10	3	10	96	1606	1979	11.434297	

Bin5 Statistics 18

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	6	61			0.230399	1
1	1	8	93.2			1.137337	
2	2	13	68.2	1413		1.669757	
3	3	17	71.6	1090	1587	2.194935	
4	1	17	83.4			3.010808	
5	1	15	56.8			3.740079	
6	2	8	98.5	1690		4.197247	
7	3	20	89.5	1102	1557	5.244031	
8	2	10	78.7	1423		5.822282	
9	2	11	65.8	1298		6.102703	
10	3	14	92.5	1764	1234	6.882062	
11	3	5	70.9	1171	1712	7.676409	
12	2	13	79.7	1139		8.048882	
13	2	9	70.5	1950		9.114924	
14	2	20	78.7	1571		9.852189	
15	3	18	66.3	1063	1354	10.567606	
16	2	19	86.2	1889		10.811127	
17	1	16	79.1			11.75806	

Bin5 Statistics 19

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	19	65.4	1098		0.165608	1
1	2	13	89.1	1402		1.021909	
2	2	12	63	1377		2.064548	
3	1	18	81.2			2.709865	
4	2	5	98	1563		3.487241	
5	3	5	90.8	1903	1735	4.305541	
6	2	12	73.3	1238		5.503988	
7	2	10	93.2	1562		6.531346	
8	1	9	54.5			7.549016	
9	2	16	66.4	1122		8.440478	
10	2	17	81.8	1434		9.204146	
11	3	13	95.9	1438	1316	9.709592	
12	2	16	59.3	1672		10.966479	
13	2	11	53.2	1046		11.69474	

Bin5 Statistics 20

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	7	59.1	1709		1.054513	1
1	2	14	73.4	1070		1.884381	
2	2	9	84	1447		3.371878	
3	3	7	89	1669	1114	5.359133	
4	2	19	62.8	1320		7.194357	
5	2	8	52.1	1117		7.807274	
6	2	8	87.1	1661		9.851823	
7	1	12	95.3			11.519846	

Bin5 Statistics 21

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	19	72.6	1957	1380	0.373734	1
1	1	13	60.3			1.789596	
2	1	8	79.2			2.663576	
3	2	19	65.4	1533		3.843672	
4	3	12	87.2	1883	1883	5.389199	
5	1	9	88			7.056572	
6	1	15	56.6			8.139111	
7	2	10	82.4	1515		9.45359	
8	2	16	60.8	1628		9.843708	
9	1	6	65.6			11.902134	

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	12	65.7	1885		0.556824	1
1	2	13	97.2	1712		1.627696	
2	1	7	84.2			3.302534	
3	2	6	93.4	1567		4.060352	
4	2	5	76.4	1092		4.851624	
5	2	16	99.6	1351		6.926085	
6	3	12	63.8	1186	1633	7.674544	
7	2	15	63.5	1806		9.303139	
8	2	12	56.4	1752		9.622791	
9	1	12	91			11.092374	

Bin5 Statistics 23

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	13	98.5			0.135367	1
1	2	6	89.7	1121		2.638046	
2	1	14	56.4			3.966105	
3	1	8	89.6			4.208226	
4	2	10	82.2	1146		6.312027	
5	2	5	62.6	1976		7.388659	
6	1	10	96.7			8.243068	
7	3	18	88.2	1680	1947	10.580484	
8	2	7	57.9	1757		11.089347	

Bin5 Statistics 24

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	13	97.1	1351	1673	0.140792	1
1	1	19	89.3			1.045272	
2	3	19	58.8	1098	1130	1.463675	
3	3	9	63.3	1291	1910	2.320532	
4	1	16	96.4			2.877185	
5	3	7	85.9	1627	1348	3.68206	
6	2	19	82	1220		3.844079	
7	2	17	68.6	1547		4.433147	
8	2	13	59.9	1476		5.064304	
9	1	16	96.6			5.710208	
10	2	12	81.3	1209		6.868062	
11	1	7	61.9			7.55846	
12	2	13	73.4	1839		7.728303	
13	2	6	75.1	1872		8.31369	
14	3	8	61.2	1012	1947	9.357185	
15	2	19	94.9	1238		10.083517	
16	3	19	58.2	1509	1901	10.583354	
17	2	18	79.6	1479		11.296105	
18	2	8	86.9	1138		11.660694	

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
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	
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	2	10	72.1	1509		0.620487	1
1	2	17	81.9	1824		1.236505	
2	2	16	61.7	1642		1.500613	
3	3	19	79.4	1196	1829	2.46813	
4	1	18	58.3			3.236711	
5	2	12	62.9	1390		3.605963	
6	2	14	83.7	1860		4.840602	
7	2	13	73.2	1475		5.301154	
8	3	9	51.8	1063	1557	6.211248	
9	2	17	80.4	1294		6.765461	
10	2	12	70.4	1591		7.061611	
11	2	11	83.7	1144		8.200411	
12	3	8	59	1782	1254	8.698875	
13	2	17	86	1856		9.257969	
14	2	13	99.1	1868		10.363494	
15	2	13	93.9	1075		10.708376	
16	2	7	85	1122		11.307523	

Bin5 Statistics 27

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	13	96.6	1209		0.073606	1
1	3	6	79.6	1969	1645	1.312733	
2	2	16	70.1	1305		1.633386	
3	1	7	94.1			2.411618	
4	1	10	55.7			3.139324	
5	2	19	77.2	1667		3.588859	
6	2	16	51	1347		4.278107	
7	3	7	95.6	1617	1440	4.922222	
8	2	5	64.5	1785		5.93822	
9	1	14	78.6			6.481866	
10	2	8	64.6	1760		7.276733	
11	2	17	99.5	1367		7.634295	
12	2	5	92.5	1254		8.236498	
13	1	19	66.3			9.02883	
14	2	13	69.3	1413		9.857117	
15	1	17	60.9			10.600252	
16	2	20	70.6	1880		11.104136	
17	2	20	83.8	1395		11.847684	

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	13	56.5			0.241906	1
1	2	13	89.6	1533		1.335304	
2	1	12	91.3			1.808809	
3	2	6	98.2	1534		2.770827	
4	1	17	100			3.471611	
5	2	19	89.5	1461		4.003122	
6	2	8	92.4	1937		5.283197	
7	2	13	69.3	1670		5.697197	
8	2	5	72.4	1060		6.675482	
9	2	13	64.3	1096		7.276984	
10	1	13	67			8.7121	
11	3	17	53.1	1432	1676	8.901779	
12	3	17	64.7	1106	1613	10.34142	
13	1	5	79.7			10.568204	
14	3	17	61.2	1840	1116	11.780233	

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	16	67.5	1249		0.905453	1
1	2	11	82.1	1923		1.353091	
2	2	11	53.7	1894		2.846356	
3	2	16	89.2	1323		3.702773	
4	3	10	83.9	1258	1791	4.31341	
5	2	13	67.8	1047		5.984782	
6	2	10	75.8	1278		6.643921	
7	3	5	51.5	1310	1290	7.057094	
8	3	11	61.4	1366	1768	8.231998	
9	1	14	80			9.226505	
10	2	11	86.3	1079		10.226266	
11	1	13	63.3			11.45916	

Bin5 Statistics 30

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	6	67.4			0.221059	1
1	2	8	62.7	1731		1.298187	
2	1	8	59			2.327334	
3	1	7	94.5			2.4353	
4	1	8	74.3			3.207063	
5	3	5	50.9	1961	1540	4.113665	
6	2	15	74.6	1568		5.377949	
7	2	20	68.7	1515		6.046667	
8	1	19	57			6.521059	
9	2	17	79.3	1533		7.698075	
10	2	11	88.5	1166		8.237252	
11	3	5	87.4	1861	1625	9.411636	
12	1	8	72			10.369283	
13	2	6	90.6	1487		10.663314	
14	3	7	74.6	1130	1410	11.618298	

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	5580	9	1	333	1	5367.0, 5253.0, 5383.0, 5402.0, 5658.0, 5466.0, 5472.0, 5607.0, 5664.0, 5723.0, 5371.0, 5327.0, 5487.0, 5670.0, 5283.0, 5406.0, 5366.0, 5713.0, 5628.0, 5554.0, 5323.0, 5703.0, 5394.0, 5510.0, 5342.0, 5388.0, 5569.0, 5561.0, 5347.0, 5632.0, 5608.0, 5433.0, 5269.0, 5596.0, 5413.0, 5522.0, 5662.0, 5478.0, 5602.0, 5334.0, 5563.0, 5321.0, 5511.0, 5416.0, 5325.0, 5320.0, 5357.0, 5324.0, 5609.0, 5591.0, 5557.0, 5532.0, 5333.0, 5335.0, 5356.0, 5315.0, 5458.0, 5322.0, 5255.0, 5467.0, 5446.0, 5276.0, 5340.0, 5429.0, 5353.0, 5439.0, 5523.0, 5411.0, 5482.0, 5352.0, 5300.0, 5440.0, 5595.0, 5560.0, 5509.0, 5706.0, 5264.0, 5656.0, 5415.0, 5648.0, 5431.0, 5574.0, 5570.0, 5531.0, 5254.0, 5720.0, 5393.0, 5688.0, 5640.0, 5678.0, 5539.0, 5547.0, 5518.0, 5308.0, 5358.0, 5661.0, 5404.0, 5639.0, 5647.0, 5430.0 (number of hits: 2)
2	5580	9	1	333	1	5448.0, 5598.0, 5579.0, 5644.0, 5685.0, 5447.0, 5563.0, 5266.0, 5664.0, 5700.0, 5280.0, 5250.0, 5362.0, 5316.0, 5458.0, 5666.0, 5609.0, 5707.0, 5701.0, 5261.0, 5588.0, 5635.0, 5548.0, 5380.0, 5418.0, 5484.0, 5345.0, 5256.0, 5646.0, 5558.0, 5455.0, 5723.0, 5572.0, 5507.0, 5516.0, 5502.0, 5583.0, 5451.0, 5704.0, 5333.0, 5321.0, 5255.0, 5678.0, 5295.0, 5603.0, 5529.0, 5606.0, 5384.0, 5640.0, 5719.0, 5581.0, 5477.0, 5689.0, 5538.0, 5491.0, 5724.0, 5352.0, 5356.0, 5530.0, 5634.0, 5269.0, 5348.0, 5292.0, 5611.0, 5322.0, 5278.0, 5297.0, 5425.0, 5499.0, 5438.0, 5349.0, 5549.0, 5568.0, 5406.0, 5655.0, 5639.0, 5709.0, 5488.0, 5495.0, 5519.0, 5550.0, 5702.0, 5540.0, 5416.0, 5525.0, 5510.0, 5419.0, 5260.0, 5633.0, 5288.0, 5394.0, 5382.0, 5253.0, 5305.0, 5527.0, 5311.0, 5515.0, 5373.0, 5392.0, 5331.0 (number of hits: 6)
3	5580	9	1	333	1	5663.0, 5613.0, 5508.0, 5438.0, 5616.0, 5639.0, 5435.0, 5404.0, 5401.0, 5545.0, 5537.0, 5683.0, 5568.0, 5371.0, 5713.0, 5387.0, 5458.0, 5265.0, 5440.0, 5377.0, 5635.0, 5622.0, 5514.0, 5621.0, 5312.0, 5395.0, 5274.0, 5433.0, 5310.0, 5548.0, 5665.0, 5600.0, 5674.0, 5685.0, 5466.0, 5322.0, 5451.0, 5399.0, 5471.0, 5378.0, 5366.0, 5479.0, 5380.0, 5412.0, 5541.0, 5658.0, 5329.0, 5343.0, 5679.0, 5388.0, 5536.0, 5326.0, 5506.0, 5367.0, 5684.0, 5519.0, 5308.0, 5317.0, 5342.0, 5717.0,

						5603.0, 5419.0, 5492.0, 5656.0, 5365.0, 5353.0, 5654.0, 5723.0, 5476.0, 5720.0, 5470.0, 5276.0, 5415.0, 5457.0, 5698.0, 5430.0, 5324.0, 5255.0, 5710.0, 5524.0, 5384.0, 5552.0, 5468.0, 5364.0, 5373.0, 5413.0, 5498.0, 5483.0, 5407.0, 5281.0, 5301.0, 5295.0, 5571.0, 5701.0, 5467.0, 5393.0, 5362.0, 5575.0, 5535.0, 5313.0 (number of hits: 6)
4	5580	9	1	333	1	5674.0, 5680.0, 5492.0, 5360.0, 5375.0, 5318.0, 5308.0, 5604.0, 5382.0, 5448.0, 5471.0, 5358.0, 5537.0, 5256.0, 5534.0, 5349.0, 5535.0, 5685.0, 5599.0, 5646.0, 5517.0, 5383.0, 5263.0, 5464.0, 5284.0, 5431.0, 5344.0, 5374.0, 5561.0, 5258.0, 5668.0, 5568.0, 5397.0, 5526.0, 5593.0, 5491.0, 5365.0, 5250.0, 5408.0, 5481.0, 5628.0, 5620.0, 5269.0, 5412.0, 5681.0, 5266.0, 5706.0, 5654.0, 5699.0, 5595.0, 5428.0, 5605.0, 5635.0, 5379.0, 5692.0, 5283.0, 5701.0, 5302.0, 5370.0, 5286.0, 5545.0, 5433.0, 5719.0, 5569.0, 5351.0, 5343.0, 5292.0, 5648.0, 5652.0, 5328.0, 5414.0, 5586.0, 5426.0, 5703.0, 5259.0, 5444.0, 5591.0, 5472.0, 5331.0, 5329.0, 5551.0, 5288.0, 5272.0, 5664.0, 5700.0, 5683.0, 5678.0, 5716.0, 5651.0, 5352.0, 5498.0, 5487.0, 5721.0, 5596.0, 5441.0, 5709.0, 5638.0, 5479.0, 5376.0, 5497.0 (number of hits: 5)
5	5580	9	1	333	1	5538.0, 5529.0, 5527.0, 5634.0, 5382.0, 5640.0, 5642.0, 5338.0, 5426.0, 5388.0, 5656.0, 5304.0, 5314.0, 5713.0, 5324.0, 5633.0, 5433.0, 5296.0, 5544.0, 5476.0, 5343.0, 5458.0, 5537.0, 5360.0, 5261.0, 5601.0, 5283.0, 5251.0, 5398.0, 5557.0, 5600.0, 5387.0, 5402.0, 5564.0, 5464.0, 5574.0, 5356.0, 5704.0, 5682.0, 5503.0, 5392.0, 5561.0, 5595.0, 5394.0, 5317.0, 5508.0, 5533.0, 5681.0, 5590.0, 5683.0, 5310.0, 5665.0, 5313.0, 5672.0, 5424.0, 5489.0, 5554.0, 5374.0, 5477.0, 5481.0, 5627.0, 5702.0, 5511.0, 5615.0, 5478.0, 5673.0, 5649.0, 5414.0, 5593.0, 5471.0, 5701.0, 5347.0, 5547.0, 5302.0, 5572.0, 5337.0, 5660.0, 5413.0, 5630.0, 5470.0, 5708.0, 5253.0, 5608.0, 5560.0, 5315.0, 5375.0, 5364.0, 5563.0, 5405.0, 5671.0, 5584.0, 5722.0, 5312.0, 5566.0, 5697.0, 5287.0, 5709.0, 5488.0, 5578.0, 5520.0 (number of hits: 8)
6	5580	9	1	333	1	5477.0, 5410.0, 5459.0, 5520.0, 5569.0, 5638.0, 5696.0, 5349.0, 5498.0, 5462.0, 5370.0, 5437.0, 5352.0, 5488.0, 5708.0, 5608.0, 5568.0, 5682.0, 5594.0, 5463.0, 5662.0, 5374.0, 5389.0, 5649.0, 5367.0, 5391.0, 5509.0, 5417.0, 5491.0, 5639.0, 5665.0, 5578.0, 5539.0, 5586.0, 5504.0, 5272.0, 5482.0, 5549.0, 5328.0, 5380.0,

						5534.0, 5317.0, 5373.0, 5526.0, 5408.0, 5295.0, 5537.0, 5371.0, 5613.0, 5642.0, 5337.0, 5690.0, 5288.0, 5607.0, 5702.0, 5723.0, 5468.0, 5554.0, 5546.0, 5500.0, 5333.0, 5464.0, 5426.0, 5451.0, 5355.0, 5629.0, 5440.0, 5691.0, 5591.0, 5461.0, 5490.0, 5392.0, 5502.0, 5343.0, 5634.0, 5258.0, 5570.0, 5418.0, 5363.0, 5517.0, 5436.0, 5595.0, 5312.0, 5703.0, 5476.0, 5263.0, 5659.0, 5379.0, 5587.0, 5256.0, 5262.0, 5633.0, 5435.0, 5660.0, 5432.0, 5553.0, 5257.0, 5567.0, 5686.0, 5626.0 (number of hits: 3)
7	5580	9	1	333	1	5361.0, 5568.0, 5376.0, 5287.0, 5713.0, 5521.0, 5637.0, 5305.0, 5553.0, 5457.0, 5609.0, 5666.0, 5431.0, 5718.0, 5491.0, 5364.0, 5514.0, 5627.0, 5358.0, 5349.0, 5418.0, 5644.0, 5422.0, 5253.0, 5679.0, 5301.0, 5367.0, 5304.0, 5488.0, 5434.0, 5308.0, 5277.0, 5542.0, 5345.0, 5372.0, 5480.0, 5592.0, 5443.0, 5685.0, 5548.0, 5717.0, 5665.0, 5654.0, 5362.0, 5707.0, 5286.0, 5348.0, 5555.0, 5497.0, 5419.0, 5256.0, 5347.0, 5677.0, 5703.0, 5461.0, 5538.0, 5522.0, 5289.0, 5583.0, 5686.0, 5526.0, 5375.0, 5599.0, 5577.0, 5594.0, 5486.0, 5661.0, 5603.0, 5590.0, 5402.0, 5706.0, 5251.0, 5501.0, 5636.0, 5712.0, 5531.0, 5676.0, 5477.0, 5262.0, 5388.0, 5511.0, 5635.0, 5620.0, 5408.0, 5401.0, 5380.0, 5395.0, 5321.0, 5550.0, 5653.0, 5413.0, 5435.0, 5264.0, 5281.0, 5549.0, 5634.0, 5581.0, 5646.0, 5448.0, 5298.0 (number of hits: 8)
8	5580	9	1	333	1	5450.0, 5467.0, 5301.0, 5643.0, 5471.0, 5717.0, 5708.0, 5611.0, 5479.0, 5334.0, 5304.0, 5514.0, 5258.0, 5473.0, 5385.0, 5317.0, 5296.0, 5257.0, 5614.0, 5492.0, 5383.0, 5279.0, 5448.0, 5480.0, 5463.0, 5482.0, 5310.0, 5723.0, 5464.0, 5302.0, 5716.0, 5497.0, 5573.0, 5642.0, 5277.0, 5455.0, 5328.0, 5644.0, 5656.0, 5362.0, 5566.0, 5412.0, 5664.0, 5558.0, 5375.0, 5520.0, 5547.0, 5581.0, 5386.0, 5589.0, 5525.0, 5318.0, 5508.0, 5669.0, 5675.0, 5507.0, 5423.0, 5536.0, 5630.0, 5705.0, 5401.0, 5458.0, 5513.0, 5550.0, 5574.0, 5337.0, 5544.0, 5636.0, 5575.0, 5462.0, 5282.0, 5435.0, 5299.0, 5516.0, 5407.0, 5323.0, 5709.0, 5599.0, 5373.0, 5429.0, 5660.0, 5359.0, 5579.0, 5474.0, 5632.0, 5524.0, 5487.0, 5704.0, 5613.0, 5271.0, 5330.0, 5254.0, 5384.0, 5446.0, 5672.0, 5521.0, 5576.0, 5377.0, 5718.0, 5357.0 (number of hits: 6)
9	5580	9	1	333	1	5709.0, 5660.0, 5690.0, 5522.0, 5553.0, 5652.0, 5645.0, 5325.0, 5279.0, 5354.0, 5439.0, 5408.0, 5418.0, 5398.0, 5316.0, 5693.0, 5599.0, 5340.0, 5382.0, 5565.0,

						5605.0, 5281.0, 5475.0, 5586.0, 5313.0, 5275.0, 5265.0, 5721.0, 5681.0, 5308.0, 5301.0, 5564.0, 5487.0, 5559.0, 5691.0, 5719.0, 5560.0, 5263.0, 5519.0, 5670.0, 5251.0, 5723.0, 5543.0, 5347.0, 5342.0, 5671.0, 5698.0, 5459.0, 5361.0, 5321.0, 5521.0, 5506.0, 5717.0, 5352.0, 5471.0, 5259.0, 5629.0, 5295.0, 5529.0, 5625.0, 5575.0, 5292.0, 5380.0, 5285.0, 5696.0, 5499.0, 5646.0, 5520.0, 5372.0, 5593.0, 5540.0, 5387.0, 5424.0, 5294.0, 5274.0, 5461.0, 5683.0, 5469.0, 5483.0, 5286.0, 5320.0, 5264.0, 5504.0, 5290.0, 5446.0, 5351.0, 5703.0, 5435.0, 5702.0, 5252.0, 5631.0, 5667.0, 5460.0, 5637.0, 5454.0, 5335.0, 5705.0, 5517.0, 5312.0, 5718.0 (number of hits: 10)
10	5580	9	1	333	1	5398.0, 5321.0, 5564.0, 5466.0, 5518.0, 5497.0, 5362.0, 5374.0, 5670.0, 5461.0, 5560.0, 5424.0, 5277.0, 5620.0, 5567.0, 5606.0, 5613.0, 5680.0, 5708.0, 5719.0, 5625.0, 5601.0, 5483.0, 5542.0, 5402.0, 5366.0, 5311.0, 5274.0, 5404.0, 5687.0, 5300.0, 5626.0, 5514.0, 5337.0, 5355.0, 5259.0, 5457.0, 5673.0, 5322.0, 5551.0, 5535.0, 5284.0, 5608.0, 5588.0, 5272.0, 5285.0, 5692.0, 5371.0, 5265.0, 5403.0, 5260.0, 5447.0, 5491.0, 5453.0, 5545.0, 5717.0, 5305.0, 5495.0, 5592.0, 5271.0, 5446.0, 5326.0, 5549.0, 5251.0, 5672.0, 5674.0, 5328.0, 5509.0, 5554.0, 5352.0, 5590.0, 5422.0, 5652.0, 5662.0, 5373.0, 5477.0, 5510.0, 5575.0, 5336.0, 5484.0, 5413.0, 5494.0, 5293.0, 5638.0, 5380.0, 5534.0, 5660.0, 5439.0, 5591.0, 5633.0, 5675.0, 5407.0, 5520.0, 5395.0, 5637.0, 5347.0, 5365.0, 5482.0, 5488.0, 5458.0 (number of hits: 5)
11	5580	9	1	333	1	5405.0, 5578.0, 5370.0, 5358.0, 5544.0, 5392.0, 5504.0, 5359.0, 5657.0, 5655.0, 5589.0, 5416.0, 5395.0, 5485.0, 5413.0, 5285.0, 5563.0, 5326.0, 5454.0, 5456.0, 5510.0, 5455.0, 5273.0, 5631.0, 5448.0, 5391.0, 5291.0, 5680.0, 5497.0, 5311.0, 5565.0, 5610.0, 5702.0, 5542.0, 5262.0, 5435.0, 5447.0, 5722.0, 5278.0, 5540.0, 5669.0, 5322.0, 5287.0, 5573.0, 5411.0, 5555.0, 5371.0, 5313.0, 5418.0, 5384.0, 5380.0, 5294.0, 5549.0, 5500.0, 5377.0, 5704.0, 5632.0, 5343.0, 5462.0, 5387.0, 5257.0, 5706.0, 5314.0, 5442.0, 5470.0, 5543.0, 5477.0, 5682.0, 5486.0, 5505.0, 5296.0, 5259.0, 5644.0, 5690.0, 5388.0, 5688.0, 5584.0, 5516.0, 5560.0, 5464.0, 5346.0, 5552.0, 5638.0, 5379.0, 5503.0, 5368.0, 5557.0, 5354.0, 5658.0, 5431.0, 5673.0, 5293.0, 5352.0, 5307.0, 5424.0, 5532.0, 5309.0, 5261.0, 5350.0, 5624.0 (number of hits: 11)

12	5580	9	1	333	1	5502.0, 5530.0, 5442.0, 5605.0, 5672.0, 5721.0, 5633.0, 5411.0, 5504.0, 5708.0, 5515.0, 5610.0, 5415.0, 5274.0, 5661.0, 5328.0, 5679.0, 5544.0, 5351.0, 5330.0, 5511.0, 5722.0, 5541.0, 5552.0, 5451.0, 5499.0, 5306.0, 5416.0, 5496.0, 5593.0, 5321.0, 5497.0, 5409.0, 5406.0, 5444.0, 5329.0, 5348.0, 5305.0, 5662.0, 5586.0, 5580.0, 5453.0, 5681.0, 5630.0, 5285.0, 5277.0, 5484.0, 5539.0, 5563.0, 5628.0, 5611.0, 5463.0, 5381.0, 5311.0, 5474.0, 5270.0, 5506.0, 5273.0, 5676.0, 5460.0, 5540.0, 5421.0, 5315.0, 5687.0, 5287.0, 5271.0, 5419.0, 5368.0, 5309.0, 5257.0, 5490.0, 5459.0, 5527.0, 5718.0, 5313.0, 5263.0, 5456.0, 5477.0, 5483.0, 5458.0, 5438.0, 5362.0, 5602.0, 5664.0, 5680.0, 5464.0, 5637.0, 5324.0, 5386.0, 5450.0, 5322.0, 5394.0, 5636.0, 5294.0, 5488.0, 5519.0, 5546.0, 5279.0, 5489.0, 5265.0 (number of hits: 8)
13	5580	9	1	333	1	5440.0, 5372.0, 5703.0, 5258.0, 5500.0, 5684.0, 5535.0, 5621.0, 5498.0, 5601.0, 5417.0, 5436.0, 5655.0, 5455.0, 5554.0, 5639.0, 5608.0, 5569.0, 5399.0, 5528.0, 5625.0, 5555.0, 5501.0, 5574.0, 5335.0, 5562.0, 5533.0, 5449.0, 5482.0, 5403.0, 5701.0, 5431.0, 5495.0, 5627.0, 5538.0, 5668.0, 5304.0, 5713.0, 5686.0, 5384.0, 5577.0, 5262.0, 5651.0, 5632.0, 5502.0, 5407.0, 5612.0, 5616.0, 5572.0, 5301.0, 5443.0, 5378.0, 5256.0, 5340.0, 5270.0, 5622.0, 5414.0, 5590.0, 5637.0, 5490.0, 5504.0, 5457.0, 5690.0, 5691.0, 5254.0, 5699.0, 5344.0, 5382.0, 5279.0, 5537.0, 5617.0, 5646.0, 5489.0, 5329.0, 5395.0, 5677.0, 5421.0, 5394.0, 5356.0, 5541.0, 5661.0, 5576.0, 5405.0, 5564.0, 5648.0, 5392.0, 5469.0, 5401.0, 5463.0, 5722.0, 5432.0, 5560.0, 5423.0, 5447.0, 5488.0, 5416.0, 5424.0, 5695.0, 5614.0, 5309.0 (number of hits: 3)
14	5580	9	1	333	1	5478.0, 5542.0, 5503.0, 5550.0, 5521.0, 5644.0, 5286.0, 5343.0, 5398.0, 5484.0, 5683.0, 5333.0, 5723.0, 5304.0, 5693.0, 5545.0, 5312.0, 5363.0, 5664.0, 5439.0, 5321.0, 5302.0, 5515.0, 5606.0, 5417.0, 5345.0, 5577.0, 5298.0, 5364.0, 5665.0, 5533.0, 5395.0, 5283.0, 5699.0, 5474.0, 5616.0, 5552.0, 5378.0, 5697.0, 5481.0, 5277.0, 5531.0, 5434.0, 5314.0, 5382.0, 5569.0, 5707.0, 5582.0, 5541.0, 5490.0, 5373.0, 5543.0, 5507.0, 5447.0, 5449.0, 5297.0, 5274.0, 5710.0, 5402.0, 5348.0, 5473.0, 5257.0, 5366.0, 5537.0, 5351.0, 5638.0, 5498.0, 5279.0, 5566.0, 5323.0, 5538.0, 5670.0, 5672.0, 5442.0, 5636.0, 5403.0, 5355.0, 5460.0, 5263.0, 5391.0, 5714.0, 5709.0, 5716.0, 5488.0, 5281.0,

						5444.0, 5358.0, 5668.0, 5574.0, 5611.0, 5463.0, 5394.0, 5390.0, 5520.0, 5687.0, 5354.0, 5275.0, 5424.0, 5388.0, 5462.0 (number of hits: 7)
15	5580	9	1	333	1	5677.0, 5486.0, 5460.0, 5526.0, 5597.0, 5265.0, 5563.0, 5722.0, 5700.0, 5350.0, 5684.0, 5672.0, 5478.0, 5450.0, 5688.0, 5365.0, 5351.0, 5596.0, 5650.0, 5290.0, 5717.0, 5500.0, 5284.0, 5348.0, 5306.0, 5462.0, 5467.0, 5710.0, 5377.0, 5349.0, 5495.0, 5285.0, 5451.0, 5408.0, 5487.0, 5690.0, 5258.0, 5634.0, 5333.0, 5257.0, 5276.0, 5562.0, 5329.0, 5667.0, 5484.0, 5575.0, 5501.0, 5632.0, 5463.0, 5716.0, 5720.0, 5490.0, 5413.0, 5493.0, 5496.0, 5644.0, 5702.0, 5606.0, 5400.0, 5721.0, 5706.0, 5252.0, 5471.0, 5584.0, 5548.0, 5521.0, 5373.0, 5327.0, 5361.0, 5583.0, 5319.0, 5603.0, 5271.0, 5676.0, 5527.0, 5696.0, 5446.0, 5399.0, 5699.0, 5549.0, 5512.0, 5483.0, 5419.0, 5324.0, 5707.0, 5357.0, 5392.0, 5605.0, 5293.0, 5286.0, 5585.0, 5403.0, 5660.0, 5708.0, 5599.0, 5474.0, 5581.0, 5330.0, 5642.0, 5259.0 (number of hits: 5)
16	5580	9	1	333	1	5590.0, 5516.0, 5668.0, 5545.0, 5519.0, 5568.0, 5254.0, 5382.0, 5402.0, 5303.0, 5410.0, 5403.0, 5266.0, 5722.0, 5440.0, 5364.0, 5340.0, 5309.0, 5709.0, 5350.0, 5368.0, 5280.0, 5700.0, 5483.0, 5682.0, 5341.0, 5558.0, 5325.0, 5444.0, 5578.0, 5512.0, 5585.0, 5609.0, 5509.0, 5434.0, 5383.0, 5371.0, 5355.0, 5343.0, 5389.0, 5384.0, 5310.0, 5480.0, 5656.0, 5659.0, 5540.0, 5714.0, 5634.0, 5460.0, 5393.0, 5523.0, 5506.0, 5499.0, 5619.0, 5720.0, 5289.0, 5677.0, 5455.0, 5451.0, 5490.0, 5461.0, 5432.0, 5414.0, 5334.0, 5560.0, 5574.0, 5517.0, 5498.0, 5549.0, 5627.0, 5554.0, 5351.0, 5601.0, 5378.0, 5658.0, 5450.0, 5363.0, 5542.0, 5661.0, 5409.0, 5723.0, 5401.0, 5346.0, 5697.0, 5475.0, 5502.0, 5357.0, 5616.0, 5684.0, 5566.0, 5411.0, 5497.0, 5649.0, 5593.0, 5321.0, 5395.0, 5507.0, 5596.0, 5459.0, 5292.0 (number of hits: 5)
17	5580	9	1	333	1	5641.0, 5629.0, 5546.0, 5318.0, 5420.0, 5723.0, 5472.0, 5256.0, 5371.0, 5490.0, 5419.0, 5715.0, 5306.0, 5273.0, 5554.0, 5358.0, 5534.0, 5264.0, 5390.0, 5446.0, 5555.0, 5449.0, 5657.0, 5473.0, 5683.0, 5316.0, 5566.0, 5634.0, 5581.0, 5700.0, 5535.0, 5252.0, 5408.0, 5292.0, 5410.0, 5671.0, 5603.0, 5645.0, 5610.0, 5701.0, 5282.0, 5479.0, 5465.0, 5340.0, 5285.0, 5529.0, 5622.0, 5684.0, 5370.0, 5422.0, 5278.0, 5417.0, 5362.0, 5453.0, 5606.0, 5640.0, 5403.0, 5391.0, 5478.0, 5720.0, 5690.0, 5699.0, 5462.0, 5329.0, 5338.0,

						5703.0, 5328.0, 5250.0, 5280.0, 5458.0, 5430.0, 5691.0, 5307.0, 5434.0, 5399.0, 5687.0, 5550.0, 5327.0, 5695.0, 5617.0, 5562.0, 5444.0, 5263.0, 5608.0, 5525.0, 5576.0, 5706.0, 5697.0, 5450.0, 5442.0, 5665.0, 5616.0, 5647.0, 5413.0, 5541.0, 5515.0, 5274.0, 5615.0, 5644.0, 5268.0 (number of hits: 4)
18	5580	9	1	333	1	5465.0, 5466.0, 5418.0, 5566.0, 5531.0, 5440.0, 5478.0, 5402.0, 5661.0, 5650.0, 5497.0, 5349.0, 5646.0, 5332.0, 5403.0, 5388.0, 5460.0, 5493.0, 5673.0, 5298.0, 5370.0, 5490.0, 5491.0, 5543.0, 5274.0, 5523.0, 5373.0, 5293.0, 5609.0, 5672.0, 5503.0, 5648.0, 5590.0, 5629.0, 5705.0, 5676.0, 5305.0, 5633.0, 5517.0, 5570.0, 5613.0, 5666.0, 5281.0, 5689.0, 5509.0, 5708.0, 5303.0, 5317.0, 5269.0, 5528.0, 5557.0, 5665.0, 5480.0, 5546.0, 5656.0, 5674.0, 5502.0, 5401.0, 5610.0, 5304.0, 5475.0, 5640.0, 5430.0, 5525.0, 5603.0, 5508.0, 5429.0, 5622.0, 5533.0, 5591.0, 5422.0, 5337.0, 5265.0, 5331.0, 5450.0, 5255.0, 5541.0, 5576.0, 5295.0, 5565.0, 5266.0, 5301.0, 5561.0, 5723.0, 5443.0, 5627.0, 5548.0, 5527.0, 5444.0, 5617.0, 5662.0, 5436.0, 5651.0, 5589.0, 5492.0, 5288.0, 5348.0, 5586.0, 5485.0, 5643.0 (number of hits: 8)
19	5580	9	1	333	1	5291.0, 5558.0, 5295.0, 5557.0, 5263.0, 5621.0, 5347.0, 5470.0, 5421.0, 5300.0, 5571.0, 5477.0, 5385.0, 5413.0, 5550.0, 5318.0, 5398.0, 5370.0, 5560.0, 5711.0, 5315.0, 5327.0, 5601.0, 5501.0, 5257.0, 5587.0, 5691.0, 5585.0, 5422.0, 5358.0, 5500.0, 5332.0, 5456.0, 5390.0, 5473.0, 5346.0, 5323.0, 5633.0, 5524.0, 5714.0, 5311.0, 5272.0, 5442.0, 5674.0, 5658.0, 5458.0, 5448.0, 5304.0, 5636.0, 5599.0, 5391.0, 5360.0, 5552.0, 5685.0, 5293.0, 5319.0, 5580.0, 5619.0, 5280.0, 5712.0, 5673.0, 5287.0, 5538.0, 5708.0, 5262.0, 5467.0, 5606.0, 5492.0, 5652.0, 5607.0, 5680.0, 5331.0, 5698.0, 5356.0, 5684.0, 5682.0, 5539.0, 5334.0, 5278.0, 5563.0, 5373.0, 5600.0, 5284.0, 5337.0, 5428.0, 5594.0, 5343.0, 5312.0, 5357.0, 5378.0, 5423.0, 5705.0, 5624.0, 5679.0, 5424.0, 5703.0, 5618.0, 5512.0, 5690.0, 5665.0 (number of hits: 8)
20	5580	9	1	333	1	5401.0, 5472.0, 5399.0, 5606.0, 5445.0, 5579.0, 5330.0, 5262.0, 5314.0, 5374.0, 5715.0, 5416.0, 5631.0, 5529.0, 5341.0, 5413.0, 5297.0, 5317.0, 5688.0, 5544.0, 5483.0, 5256.0, 5572.0, 5538.0, 5397.0, 5596.0, 5439.0, 5316.0, 5681.0, 5254.0, 5422.0, 5493.0, 5263.0, 5435.0, 5419.0, 5402.0, 5624.0, 5645.0, 5672.0, 5498.0, 5513.0, 5403.0, 5363.0, 5281.0, 5457.0,

						5518.0, 5640.0, 5560.0, 5691.0, 5428.0, 5628.0, 5438.0, 5701.0, 5478.0, 5706.0, 5455.0, 5323.0, 5255.0, 5548.0, 5331.0, 5444.0, 5296.0, 5398.0, 5613.0, 5449.0, 5424.0, 5320.0, 5308.0, 5277.0, 5418.0, 5553.0, 5307.0, 5365.0, 5275.0, 5411.0, 5368.0, 5587.0, 5412.0, 5322.0, 5356.0, 5652.0, 5289.0, 5272.0, 5362.0, 5325.0, 5692.0, 5685.0, 5381.0, 5410.0, 5709.0, 5360.0, 5622.0, 5499.0, 5467.0, 5274.0, 5527.0, 5611.0, 5391.0, 5617.0, 5264.0 (number of hits: 6)
21	5580	9	1	333	1	5626.0, 5313.0, 5590.0, 5275.0, 5500.0, 5675.0, 5379.0, 5280.0, 5694.0, 5584.0, 5288.0, 5482.0, 5577.0, 5372.0, 5354.0, 5672.0, 5460.0, 5595.0, 5591.0, 5285.0, 5534.0, 5305.0, 5336.0, 5387.0, 5701.0, 5583.0, 5405.0, 5362.0, 5616.0, 5409.0, 5633.0, 5723.0, 5310.0, 5443.0, 5319.0, 5495.0, 5669.0, 5678.0, 5252.0, 5309.0, 5510.0, 5698.0, 5492.0, 5272.0, 5315.0, 5621.0, 5603.0, 5469.0, 5462.0, 5716.0, 5683.0, 5337.0, 5415.0, 5634.0, 5375.0, 5470.0, 5335.0, 5685.0, 5597.0, 5463.0, 5696.0, 5641.0, 5474.0, 5432.0, 5569.0, 5546.0, 5403.0, 5324.0, 5437.0, 5459.0, 5441.0, 5714.0, 5467.0, 5254.0, 5290.0, 5489.0, 5350.0, 5384.0, 5418.0, 5686.0, 5317.0, 5499.0, 5385.0, 5516.0, 5455.0, 5347.0, 5321.0, 5299.0, 5435.0, 5637.0, 5274.0, 5270.0, 5465.0, 5367.0, 5283.0, 5352.0, 5278.0, 5304.0, 5273.0, 5512.0 (number of hits: 9)
22	5580	9	1	333	1	5488.0, 5443.0, 5372.0, 5565.0, 5317.0, 5456.0, 5609.0, 5680.0, 5553.0, 5385.0, 5410.0, 5401.0, 5670.0, 5607.0, 5501.0, 5475.0, 5568.0, 5329.0, 5557.0, 5458.0, 5595.0, 5620.0, 5393.0, 5418.0, 5598.0, 5291.0, 5328.0, 5445.0, 5303.0, 5579.0, 5661.0, 5259.0, 5707.0, 5710.0, 5689.0, 5594.0, 5539.0, 5599.0, 5270.0, 5495.0, 5713.0, 5254.0, 5382.0, 5555.0, 5499.0, 5610.0, 5377.0, 5492.0, 5347.0, 5587.0, 5652.0, 5428.0, 5449.0, 5521.0, 5546.0, 5440.0, 5572.0, 5321.0, 5324.0, 5395.0, 5528.0, 5275.0, 5320.0, 5430.0, 5268.0, 5513.0, 5261.0, 5516.0, 5608.0, 5535.0, 5575.0, 5692.0, 5486.0, 5698.0, 5683.0, 5678.0, 5658.0, 5628.0, 5326.0, 5531.0, 5309.0, 5491.0, 5593.0, 5677.0, 5699.0, 5483.0, 5396.0, 5481.0, 5293.0, 5269.0, 5373.0, 5560.0, 5649.0, 5634.0, 5580.0, 5366.0, 5653.0, 5533.0, 5490.0, 5402.0 (number of hits: 4)
23	5580	9	1	333	1	5256.0, 5325.0, 5396.0, 5287.0, 5305.0, 5386.0, 5416.0, 5428.0, 5669.0, 5703.0, 5457.0, 5656.0, 5576.0, 5270.0, 5585.0, 5506.0, 5383.0, 5356.0, 5644.0, 5504.0, 5415.0, 5580.0, 5281.0, 5485.0, 5477.0,

						5259.0, 5635.0, 5391.0, 5583.0, 5688.0, 5292.0, 5543.0, 5399.0, 5367.0, 5693.0, 5445.0, 5530.0, 5606.0, 5342.0, 5689.0, 5461.0, 5484.0, 5347.0, 5307.0, 5548.0, 5487.0, 5673.0, 5304.0, 5552.0, 5349.0, 5300.0, 5621.0, 5566.0, 5337.0, 5568.0, 5441.0, 5474.0, 5674.0, 5268.0, 5542.0, 5406.0, 5309.0, 5455.0, 5632.0, 5257.0, 5364.0, 5288.0, 5322.0, 5698.0, 5582.0, 5263.0, 5488.0, 5590.0, 5372.0, 5671.0, 5376.0, 5554.0, 5641.0, 5459.0, 5655.0, 5276.0, 5500.0, 5436.0, 5647.0, 5430.0, 5380.0, 5649.0, 5360.0, 5687.0, 5366.0, 5423.0, 5708.0, 5555.0, 5625.0, 5612.0, 5716.0, 5620.0, 5593.0, 5676.0, 5497.0 (number of hits: 8)
24	5580	9	1	333	1	5571.0, 5426.0, 5447.0, 5572.0, 5624.0, 5448.0, 5302.0, 5667.0, 5290.0, 5270.0, 5559.0, 5439.0, 5410.0, 5461.0, 5337.0, 5345.0, 5630.0, 5689.0, 5546.0, 5490.0, 5501.0, 5506.0, 5596.0, 5435.0, 5655.0, 5541.0, 5457.0, 5355.0, 5638.0, 5446.0, 5657.0, 5589.0, 5550.0, 5580.0, 5452.0, 5494.0, 5553.0, 5603.0, 5531.0, 5595.0, 5711.0, 5454.0, 5437.0, 5347.0, 5273.0, 5385.0, 5344.0, 5268.0, 5696.0, 5578.0, 5353.0, 5272.0, 5712.0, 5681.0, 5607.0, 5406.0, 5486.0, 5319.0, 5612.0, 5628.0, 5294.0, 5536.0, 5528.0, 5557.0, 5429.0, 5378.0, 5482.0, 5493.0, 5633.0, 5295.0, 5646.0, 5587.0, 5375.0, 5397.0, 5611.0, 5434.0, 5321.0, 5641.0, 5512.0, 5511.0, 5403.0, 5329.0, 5523.0, 5605.0, 5692.0, 5502.0, 5376.0, 5352.0, 5558.0, 5598.0, 5540.0, 5473.0, 5579.0, 5583.0, 5416.0, 5614.0, 5518.0, 5362.0, 5318.0, 5453.0 (number of hits: 4)
25	5580	9	1	333	1	5446.0, 5546.0, 5492.0, 5636.0, 5677.0, 5340.0, 5260.0, 5363.0, 5695.0, 5690.0, 5706.0, 5356.0, 5601.0, 5371.0, 5297.0, 5257.0, 5586.0, 5531.0, 5286.0, 5482.0, 5587.0, 5622.0, 5548.0, 5291.0, 5500.0, 5657.0, 5689.0, 5307.0, 5532.0, 5387.0, 5358.0, 5508.0, 5504.0, 5543.0, 5530.0, 5629.0, 5613.0, 5628.0, 5327.0, 5278.0, 5477.0, 5610.0, 5267.0, 5341.0, 5292.0, 5651.0, 5478.0, 5331.0, 5383.0, 5626.0, 5675.0, 5558.0, 5621.0, 5420.0, 5641.0, 5612.0, 5308.0, 5527.0, 5311.0, 5384.0, 5410.0, 5490.0, 5724.0, 5405.0, 5317.0, 5406.0, 5400.0, 5369.0, 5694.0, 5664.0, 5287.0, 5604.0, 5566.0, 5442.0, 5696.0, 5539.0, 5343.0, 5397.0, 5321.0, 5275.0, 5572.0, 5618.0, 5295.0, 5366.0, 5711.0, 5472.0, 5605.0, 5389.0, 5523.0, 5375.0, 5644.0, 5419.0, 5451.0, 5458.0, 5538.0, 5537.0, 5560.0, 5643.0, 5707.0, 5624.0 (number of hits: 9)
26	5580	9	1	333	1	5377.0, 5660.0, 5389.0, 5394.0, 5426.0,

						5518.0, 5714.0, 5683.0, 5691.0, 5286.0, 5319.0, 5506.0, 5605.0, 5431.0, 5376.0, 5472.0, 5614.0, 5639.0, 5488.0, 5256.0, 5530.0, 5520.0, 5439.0, 5419.0, 5413.0, 5324.0, 5344.0, 5638.0, 5416.0, 5405.0, 5411.0, 5438.0, 5265.0, 5361.0, 5531.0, 5631.0, 5458.0, 5327.0, 5252.0, 5391.0, 5463.0, 5261.0, 5468.0, 5264.0, 5670.0, 5681.0, 5396.0, 5271.0, 5536.0, 5379.0, 5606.0, 5268.0, 5645.0, 5269.0, 5679.0, 5342.0, 5350.0, 5712.0, 5263.0, 5595.0, 5428.0, 5371.0, 5444.0, 5663.0, 5346.0, 5567.0, 5311.0, 5657.0, 5436.0, 5326.0, 5698.0, 5267.0, 5574.0, 5590.0, 5688.0, 5437.0, 5325.0, 5677.0, 5476.0, 5509.0, 5627.0, 5525.0, 5332.0, 5328.0, 5397.0, 5480.0, 5308.0, 5685.0, 5654.0, 5274.0, 5686.0, 5351.0, 5646.0, 5359.0, 5445.0, 5694.0, 5542.0, 5622.0, 5441.0, 5650.0 (number of hits: 3)
27	5580	9	1	333	1	5568.0, 5432.0, 5493.0, 5506.0, 5253.0, 5695.0, 5318.0, 5447.0, 5478.0, 5601.0, 5422.0, 5614.0, 5524.0, 5677.0, 5671.0, 5365.0, 5570.0, 5438.0, 5622.0, 5629.0, 5336.0, 5676.0, 5368.0, 5256.0, 5378.0, 5529.0, 5369.0, 5345.0, 5359.0, 5459.0, 5641.0, 5314.0, 5286.0, 5343.0, 5499.0, 5376.0, 5607.0, 5714.0, 5718.0, 5414.0, 5515.0, 5606.0, 5674.0, 5600.0, 5301.0, 5504.0, 5611.0, 5541.0, 5632.0, 5525.0, 5364.0, 5704.0, 5344.0, 5488.0, 5458.0, 5483.0, 5527.0, 5521.0, 5575.0, 5634.0, 5596.0, 5340.0, 5623.0, 5419.0, 5496.0, 5619.0, 5579.0, 5489.0, 5258.0, 5394.0, 5273.0, 5309.0, 5274.0, 5257.0, 5384.0, 5673.0, 5633.0, 5254.0, 5585.0, 5689.0, 5464.0, 5466.0, 5316.0, 5498.0, 5584.0, 5679.0, 5503.0, 5390.0, 5661.0, 5341.0, 5381.0, 5500.0, 5559.0, 5558.0, 5598.0, 5509.0, 5696.0, 5715.0, 5448.0, 5321.0 (number of hits: 4)
28	5580	9	1	333	1	5511.0, 5542.0, 5323.0, 5353.0, 5431.0, 5275.0, 5373.0, 5308.0, 5423.0, 5342.0, 5333.0, 5617.0, 5341.0, 5689.0, 5642.0, 5456.0, 5443.0, 5363.0, 5301.0, 5667.0, 5644.0, 5462.0, 5287.0, 5465.0, 5513.0, 5601.0, 5531.0, 5578.0, 5641.0, 5463.0, 5702.0, 5486.0, 5686.0, 5367.0, 5569.0, 5483.0, 5520.0, 5283.0, 5506.0, 5611.0, 5254.0, 5458.0, 5696.0, 5606.0, 5612.0, 5525.0, 5372.0, 5320.0, 5629.0, 5403.0, 5312.0, 5561.0, 5714.0, 5705.0, 5459.0, 5441.0, 5430.0, 5637.0, 5519.0, 5476.0, 5413.0, 5694.0, 5302.0, 5609.0, 5631.0, 5682.0, 5414.0, 5723.0, 5625.0, 5646.0, 5665.0, 5432.0, 5545.0, 5339.0, 5378.0, 5280.0, 5478.0, 5446.0, 5307.0, 5424.0, 5452.0, 5555.0, 5258.0, 5583.0, 5383.0, 5699.0, 5422.0, 5645.0, 5448.0, 5515.0,

						5487.0, 5251.0, 5538.0, 5718.0, 5262.0, 5651.0, 5588.0, 5722.0, 5291.0, 5497.0 (number of hits: 7)
29	5580	9	1	333	1	5558.0, 5381.0, 5267.0, 5424.0, 5638.0, 5252.0, 5446.0, 5531.0, 5356.0, 5473.0, 5608.0, 5691.0, 5667.0, 5364.0, 5427.0, 5490.0, 5540.0, 5692.0, 5699.0, 5653.0, 5262.0, 5674.0, 5717.0, 5634.0, 5623.0, 5510.0, 5459.0, 5328.0, 5275.0, 5317.0, 5511.0, 5340.0, 5506.0, 5542.0, 5721.0, 5556.0, 5333.0, 5299.0, 5678.0, 5507.0, 5600.0, 5414.0, 5398.0, 5662.0, 5572.0, 5376.0, 5584.0, 5645.0, 5683.0, 5419.0, 5509.0, 5429.0, 5387.0, 5278.0, 5565.0, 5329.0, 5489.0, 5264.0, 5280.0, 5548.0, 5418.0, 5498.0, 5497.0, 5460.0, 5562.0, 5430.0, 5631.0, 5682.0, 5350.0, 5347.0, 5375.0, 5657.0, 5675.0, 5259.0, 5482.0, 5566.0, 5681.0, 5450.0, 5409.0, 5648.0, 5327.0, 5337.0, 5462.0, 5346.0, 5502.0, 5536.0, 5442.0, 5345.0, 5547.0, 5642.0, 5664.0, 5677.0, 5265.0, 5612.0, 5704.0, 5576.0, 5656.0, 5606.0, 5593.0, 5708.0 (number of hits: 1)
30	5580	9	1	333	1	5509.0, 5544.0, 5583.0, 5655.0, 5639.0, 5487.0, 5722.0, 5671.0, 5692.0, 5637.0, 5422.0, 5450.0, 5616.0, 5664.0, 5654.0, 5297.0, 5595.0, 5340.0, 5720.0, 5484.0, 5668.0, 5421.0, 5394.0, 5451.0, 5427.0, 5329.0, 5294.0, 5362.0, 5704.0, 5392.0, 5625.0, 5309.0, 5588.0, 5259.0, 5627.0, 5649.0, 5672.0, 5466.0, 5251.0, 5676.0, 5278.0, 5258.0, 5537.0, 5603.0, 5498.0, 5268.0, 5709.0, 5414.0, 5691.0, 5548.0, 5364.0, 5271.0, 5380.0, 5406.0, 5647.0, 5322.0, 5481.0, 5494.0, 5402.0, 5337.0, 5599.0, 5612.0, 5490.0, 5648.0, 5554.0, 5303.0, 5475.0, 5536.0, 5667.0, 5699.0, 5460.0, 5455.0, 5465.0, 5584.0, 5681.0, 5254.0, 5423.0, 5636.0, 5441.0, 5705.0, 5680.0, 5573.0, 5366.0, 5323.0, 5266.0, 5492.0, 5682.0, 5489.0, 5285.0, 5412.0, 5669.0, 5325.0, 5479.0, 5341.0, 5715.0, 5608.0, 5541.0, 5567.0, 5409.0, 5546.0 (number of hits: 5)

5270 MHz, 40 MHz Bandwidth

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1A/1B	30	100 %	60%	Pass
Type 2	30	93.3 %	60%	Pass
Type 3	30	93.3 %	60%	Pass
Type 4	30	80 %	60%	Pass
Aggregate (Type1 to 4)	120	91.6 %	80%	Pass
Type 5	30	100 %	80%	Pass
Type 6	30	100 %	70%	Pass

Please refer to the following statistical tables:

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

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5270	58	1	918	1
2	5270	62	1	858	1
3	5270	65	1	818	1
4	5270	67	1	798	1
5	5270	83	1	638	1
6	5270	74	1	718	1
7	5270	70	1	758	1
8	5270	57	1	938	1
9	5270	63	1	838	1
10	5270	59	1	898	1
11	5270	95	1	558	1
12	5270	81	1	658	1
13	5270	78	1	678	1
14	5270	68	1	778	1
15	5270	86	1	618	1
16	5270	36	1	1483	1
17	5270	23	1	2365	1
18	5270	26	1	2107	1
19	5270	68	1	780	1
20	5270	20	1	2762	1
21	5270	52	1	1033	1
22	5270	46	1	1160	1
23	5270	64	1	826	1
24	5270	36	1	1484	1
25	5270	53	1	1003	1
26	5270	21	1	2600	1
27	5270	24	1	2226	1
28	5270	18	1	2941	1
29	5270	43	1	1247	1
30	5270	24	1	2220	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	29	4.3	229	1
2	5270	29	3.6	166	1
3	5270	29	2.2	211	1
4	5270	28	1	195	1
5	5270	23	4.5	150	1
6	5270	27	1.5	179	1
7	5270	24	4.3	169	1
8	5270	27	1.1	164	1
9	5270	27	1.3	218	1
10	5270	27	1.9	209	1
11	5270	23	1.6	220	1
12	5270	29	1.4	225	1
13	5270	26	2.3	212	1
14	5270	27	2.6	220	1
15	5270	27	2.7	155	1
16	5270	23	3.4	180	1
17	5270	28	1.6	188	0
18	5270	25	4.4	194	1
19	5270	25	1.8	215	1
20	5270	28	2	174	1
21	5270	24	2.2	179	1
22	5270	23	2.1	170	1
23	5270	27	4.4	164	0
24	5270	23	1.9	217	1
25	5270	28	3.2	181	1
26	5270	23	4.6	223	1
27	5270	27	2.4	158	1
28	5270	29	3.3	179	1
29	5270	23	2.3	152	1
30	5270	28	3.4	181	1
Detection Percentage: 93.3 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5270	17	8.4	266	1
2	5270	18	6.2	445	1
3	5270	18	7.7	294	1
4	5270	17	9.5	258	1
5	5270	17	7	251	1
6	5270	16	8.5	481	1
7	5270	16	8.6	437	1
8	5270	17	8.3	467	1
9	5270	18	6.6	473	1
10	5270	16	8.4	215	1
11	5270	16	7.5	296	0
12	5270	18	7.5	236	1
13	5270	16	8.6	211	1
14	5270	17	7.6	433	1
15	5270	16	7.3	434	0
16	5270	17	8.7	444	1
17	5270	16	6.9	447	1
18	5270	17	9.7	272	1
19	5270	18	9.9	235	1
20	5270	18	8.5	239	1
21	5270	16	8.1	210	1
22	5270	18	8.4	204	1
23	5270	17	7	403	1
24	5270	18	9.7	205	1
25	5270	17	8.8	405	1
26	5270	18	6.2	495	1
27	5270	16	7.6	305	1
28	5270	18	6	294	1
29	5270	18	8.6	273	1
30	5270	16	7.9	233	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	5270	12	13.6	333	1
2	5270	14	18.3	210	1
3	5270	14	19.4	340	1
4	5270	16	12.4	453	1
5	5270	16	15.2	212	1
6	5270	12	17.1	342	1
7	5270	16	13.7	278	1
8	5270	12	17	333	1
9	5270	13	19.2	469	1
10	5270	13	12.5	214	1
11	5270	14	17.5	444	1
12	5270	16	16	444	1
13	5270	13	11.1	236	0
14	5270	12	12.2	220	1
15	5270	16	19.5	277	1
16	5270	12	18.5	329	1
17	5270	13	19.5	424	0
18	5270	14	15.5	329	1
19	5270	16	15.5	360	1
20	5270	16	13.2	233	0
21	5270	13	12.7	255	1
22	5270	14	13.5	207	0
23	5270	14	17	281	0
24	5270	14	19	332	1
25	5270	16	12.9	390	1
26	5270	14	15.6	500	1
27	5270	15	14.3	257	0
28	5270	16	12.1	202	1
29	5270	15	15.4	238	1
30	5270	13	13.6	307	1
Detection Percentage: 80 % (>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	9	62	1303		0.429562	1
1	2	7	74.6	1153		2.086977	
2	1	20	77.1			2.643312	
3	2	15	84.3	1856		4.001749	
4	2	16	79.1	1619		4.949657	
5	1	5	68.6			6.325495	
6	2	17	85.9	1304		6.938314	
7	2	12	57.5	1782		8.139955	
8	1	20	56.1			9.165651	
9	2	9	92.6	1402		9.956399	
10	2	14	54.4	1123		11.288006	

Bin5 Statistics 2

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	12	50.8	1139	1889	0.456132	1
1	2	10	60.3	1163		1.523564	
2	2	18	83.6	1734		2.676301	
3	3	15	86.2	1771	1931	3.882598	
4	3	17	73.2	1004	1499	4.978961	
5	3	18	52.1	1150	1239	6.449959	
6	2	12	60.7	1303		7.085332	
7	1	15	94.9			8.512185	
8	2	14	69.6	1539		9.658792	
9	2	19	88.4	1492		9.946724	
10	2	16	60.1	1306		11.164908	

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	14	68.4	1221		0.077369	1
1	2	8	76.2	1971		1.814813	
2	2	5	90.9	1448		3.03027	
3	2	7	51	1519		5.047379	
4	1	14	91.2			6.923656	
5	2	12	60.4	1461		8.573954	
6	2	16	50.6	1949		9.197238	
7	3	10	93.7	1249	1269	11.944557	

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	18	65.7			0.567052	1
1	2	7	96.7	1381		1.013612	
2	2	7	78.8	1289		1.323381	
3	3	9	79.8	1552	1030	2.039982	
4	2	8	94.6	1364		2.747699	
5	2	10	52.4	1837		3.501198	
6	2	17	54	1133		4.161432	
7	2	15	87.6	1017		4.210913	
8	2	13	64.6	1827		4.905377	
9	1	6	64.6			5.478634	
10	3	7	92.2	1107	1622	6.424202	
11	1	6	85.1			6.788184	
12	1	20	57.8			7.458618	
13	2	9	97.1	1580		7.860021	
14	2	14	83.6	1882		8.640614	
15	1	19	79			9.50871	
16	2	19	73.2	1666		10.178166	
17	1	14	60.3			10.367308	
18	1	8	73.4			11.260967	
19	1	7	92.1			11.587565	

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	52.9			0.505321	1
1	2	6	51.7	1160		1.197675	
2	1	19	99.5			1.855708	
3	1	8	52.6			2.436274	
4	2	6	88.4	1985		2.934516	
5	1	10	72			3.91548	
6	2	18	78.3	1117		4.907927	
7	2	10	65.2	1364		5.572726	
8	2	11	56.3	1622		5.972193	
9	2	15	88.8	1495		6.938611	
10	2	18	89.1	1921		7.29546	
11	1	6	99.8			8.27186	
12	1	9	64.4			9.006937	
13	2	6	95.8	1497		9.845297	
14	3	12	84.8	1693	1768	10.56732	
15	3	13	51.9	1763	1152	10.79528	
16	2	9	99.2	1345		11.792381	

Bin5 Statistics 6

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	6	68.4	1196	1073	0.796037	1
1	2	17	89.8	1796		1.444074	
2	2	6	60.6	1201		1.81964	
3	2	10	64.6	1241		2.595396	
4	2	8	94.7	1201		3.519903	
5	2	6	62.7	1202		4.321714	
6	1	17	68.3			5.489185	
7	2	7	52.8	1649		6.331827	
8	2	16	95.4	1308		7.172194	
9	3	15	82	1116	1388	8.355415	
10	2	18	63.7	1642		8.876756	
11	2	10	66.1	1458		9.866881	
12	2	10	75.2	1316		10.994219	
13	1	7	69.7			11.802104	

Bin5 Statistics 7

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	13	54.6			0.689694	1
1	3	16	81.7	1794	1497	1.683351	
2	1	6	54.9			2.298224	
3	1	10	96.6			3.623895	
4	2	10	62.3	1270		4.283036	
5	3	11	54.4	1984	1749	4.812394	
6	2	14	87	1776		6.447958	
7	3	11	84.1	1923	1846	6.907224	
8	3	14	57.8	1262	1913	7.634816	
9	2	7	61.3	1426		9.088886	
10	1	6	95.3			9.392848	
11	2	9	96.2	1667		11.005489	
12	2	15	67.4	1928		11.586531	

Bin5 Statistics 8

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	11	61.4	1660		0.259422	1
1	2	13	95.3	1706		0.764567	
2	1	15	85.3			1.621168	
3	1	5	84.8			2.26127	
4	1	13	57.9			2.65346	
5	2	17	80.6	1787		3.370911	
6	2	10	59.3	1397		3.932204	
7	1	7	62.3			4.919926	
8	2	9	82.7	1110		5.309348	
9	2	5	89.5	1744		6.301309	
10	2	11	88	1253		6.845981	
11	1	9	55.5			7.144398	
12	3	14	83.4	1682	1389	7.857766	
13	3	10	58.9	1224	1570	8.655395	
14	1	16	68.5			8.986355	
15	3	18	79.8	1227	1436	9.58516	
16	2	18	89.5	1839		10.128624	
17	3	10	88.6	1233	1156	10.863742	
18	2	8	87.6	1441		11.383808	

Bin5 Statistics 9

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	19	54.8	1606	1088	0.93603	1
1	2	10	98.7	1462		2.960383	
2	3	14	79.5	1998	1783	3.808313	
3	3	15	60.2	1694	1859	4.514102	
4	2	6	86.7	1799		7.254138	
5	2	7	91.9	1617		7.965897	
6	2	7	51.9	1436		9.231046	
7	2	12	92.2	1784		11.881031	

Bin5 Statistics 10

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	13	78.3	1072		0.14247	1
1	3	6	72.3	1438	1829	1.163493	
2	2	6	59.8	1164		1.422024	
3	2	12	51.9	1032		2.631944	
4	2	10	60.4	1605		2.945526	
5	2	5	62	1658		3.522722	
6	3	18	61.1	1115	1516	4.644983	
7	2	6	84.8	1915		5.009637	
8	2	9	84.3	1933		5.418311	
9	3	11	55.4	1436	1112	6.229292	
10	2	5	77.2	1511		7.233152	
11	1	5	98.3			7.747875	
12	2	12	61.8	1100		8.3325	
13	2	12	59.5	1969		8.932228	
14	1	10	67.5			9.470357	
15	1	7	65.9			10.334538	
16	2	18	57.3	1135		11.150812	
17	2	17	76.6	1824		11.834463	

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	17	88	1039		0.004414	1
1	3	7	71	1898	1555	0.84344	
2	2	16	81.3	1712		1.462548	
3	2	13	92.1	1781		2.516731	
4	2	17	88.1	1202		3.273942	
5	2	20	63	1503		3.896809	
6	2	8	99.4	1940		4.338204	
7	2	6	58.2	1697		4.856111	
8	3	17	97.6	1557	1141	5.937936	
9	2	6	85.3	1270		6.344381	
10	2	18	53.9	1029		6.765906	
11	2	19	74.9	1908		7.724686	
12	1	6	98.8			8.56383	
13	2	19	80.8	1301		9.125841	
14	1	15	54.6			9.821136	
15	2	11	62.2	1539		10.471103	
16	2	13	50.6	1109		10.811348	
17	2	8	61.3	1956		11.961827	

Bin5 Statistics 12

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	15	60.7	1321		0.27557	1
1	2	8	96.2	1913		1.268836	
2	1	20	66.6			1.610484	
3	1	18	65.9			2.846932	
4	2	13	64.3	1809		3.451703	
5	2	14	61.3	1975		3.779075	
6	2	15	64.6	1866		5.185831	
7	1	7	60.6			5.91985	
8	2	9	98.9	1922		6.398971	
9	1	12	50.5			7.289575	
10	3	10	61.3	1067	1893	7.73056	
11	3	15	93.4	1234	1060	8.48097	
12	2	13	86	1016		9.50642	
13	2	12	59.3	1604		9.824295	
14	2	11	92.9	1055		10.083187	

Bin5 Statistics 13

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	13	99.7	1221	1340	0.82925	1
1	2	16	54.8	1028		1.93257	
2	2	14	95.5	1270		3.583848	
3	2	16	81.2	1149		4.729917	
4	1	10	76.2			5.501162	
5	2	14	99.3	1957		6.970818	
6	2	12	79.5	1311		8.296177	
7	2	16	83.9	1725		10.274218	
8	2	15	62.9	1608		11.966972	

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	53.6	1771		0.281959	1
1	1	6	56.8			0.917869	
2	1	10	65.2			1.618987	
3	2	6	59.6	1684		2.448138	
4	2	14	63.7	1262		3.516496	
5	2	14	51.3	1361		4.318942	
6	1	19	50.6			4.918416	
7	2	11	98.5	1541		5.372951	
8	1	10	87			6.389803	
9	2	16	52	1328		7.489018	
10	1	17	76.2			7.981922	
11	2	7	84.7	1581		8.883993	
12	2	17	59.2	1008		9.523367	
13	3	7	88.8	1307	1664	10.459396	
14	3	16	95.1	1439	1379	10.588027	
15	2	7	76.2	1862		11.51577	

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	9	56.3	1405		0.950969	1
1	2	11	62.9	1203		2.142652	
2	3	9	97	1613	1161	3.245421	
3	2	10	60.1	1973		4.47579	
4	1	7	93.6			5.620357	
5	3	12	56.6	1457	1051	7.427	
6	2	16	93.2	1069		8.085602	
7	2	12	70.3	1285		10.42167	
8	2	14	97.3	1980		11.281341	

Bin5 Statistics 16

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	7	87.2	1357		0.827943	1
1	3	8	55.9	1048	1997	1.004514	
2	2	19	73.4	1036		1.989183	
3	3	17	84.1	1539	1781	2.917584	
4	3	11	96.1	1394	1439	4.189051	
5	3	14	59.5	1685	1880	4.634786	
6	3	18	56.2	1569	1622	5.613714	
7	1	12	68.3			6.800432	
8	2	16	62.7	1873		7.369887	
9	2	7	93.4	1809		7.816231	
10	2	7	62.6	1409		9.274385	
11	2	18	73.7	1604		9.763663	
12	3	18	81.9	1622	1315	10.481921	
13	2	17	66.8	1823		11.407104	

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	16	68.4	1795	1659	1.256014	1
1	3	10	95.6	1245	1715	2.241525	
2	2	9	69.9	1388		3.318018	
3	2	11	80	1732		5.209001	
4	2	19	98.7	1280		6.52017	
5	2	5	73	1637		7.263871	
6	2	18	52	1168		9.226502	
7	2	6	97.5	1195		10.432275	
8	2	14	66.1	1402		11.222138	

Bin5 Statistics 18

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	15	98.5			0.290457	1
1	1	19	82.5			1.822343	
2	3	11	79.6	1987	1992	2.443082	
3	2	19	98.8	1973		3.345189	
4	2	8	78.3	1574		4.208714	
5	3	11	57.7	1565	1336	5.591787	
6	3	11	86.5	1437	1622	6.6132	
7	1	6	89.7			7.093265	
8	2	11	96	1643		8.578052	
9	2	14	91.6	1223		9.893757	
10	1	5	99.3			10.764634	
11	2	8	57.4	1072		11.242782	
0	1	15	98.5			0.290457	

Bin5 Statistics 19

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	10	56.1	1627		0.248221	1
1	3	13	62.5	1820	1965	2.178397	
2	2	5	60.2	1829		2.599658	
3	3	17	96.6	1590	1710	4.582359	
4	1	5	66.5			4.953229	
5	2	12	93	1889		6.188147	
6	2	11	91.6	1053		8.097196	
7	2	17	97.2	1978		8.688508	
8	2	6	84.5	1379		10.554731	
9	2	8	99.5	1151		11.49598	

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	18	54.7	1747	1333	0.557604	1
1	1	9	60.1			1.790222	
2	1	13	66			3.27282	
3	2	7	68.8	1800		4.596797	
4	2	11	88.5	1908		5.732717	
5	2	13	79.6	1606		7.68308	
6	1	17	65.2			8.090208	
7	2	17	51.7	1621		10.127957	
8	2	19	58.8	1990		11.930032	

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	18	56.1	1771		0.09667	1
1	2	12	52.3	1877		1.193382	
2	3	17	94.6	1012	1886	1.261316	
3	1	7	89.4			2.303268	
4	3	16	93.1	1487	1296	2.460573	
5	2	10	92.2	1773		3.210812	
6	3	6	74.1	1406	1423	3.917781	
7	2	11	67.2	1535		4.62299	
8	1	10	59.1			5.10777	
9	3	17	55.1	1118	1666	5.493191	
10	2	8	73.1	1057		6.227462	
11	2	14	75.7	1855		7.019839	
12	1	7	74.9			7.755569	
13	2	16	90.8	1556		8.281783	
14	2	7	88.4	1243		8.603193	
15	3	9	60.2	1716	1239	9.15999	
16	2	19	81.3	1846		9.912999	
17	2	18	62.8	1413		10.460197	
18	1	7	60.8			10.898938	
19	3	10	60.3	1625	1861	11.62118	

Bin5 Statistics 22

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	15	66.6	1921	1201	0.769937	1
1	1	16	71.1			1.922834	
2	1	20	94			2.899714	
3	1	13	55.1			3.456111	
4	2	12	62.6	1062		4.71167	
5	2	19	93.9	1712		6.203527	
6	2	13	70.4	1897		7.108736	
7	1	13	72.9			7.780836	
8	1	19	62.3			9.324052	
9	1	7	71.6			10.425767	
10	3	7	83.1	1857	1035	11.329719	

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	66	1739		0.732968	1
1	2	8	99.8	1813		1.000768	
2	3	17	61.6	1941	1804	1.860789	
3	1	19	53.1			2.83123	
4	2	12	57.2	1040		3.962634	
5	3	9	59.2	1718	1692	4.6545	
6	3	17	65.6	1919	1020	5.454925	
7	3	8	96	1680	1296	6.353813	
8	2	12	81.8	1536		7.034941	
9	2	15	79.4	1647		7.336155	
10	3	20	92.4	1042	1413	8.256732	
11	2	11	51.3	1270		9.443681	
12	2	18	70.3	1229		10.087198	
13	2	15	63	1158		11.064381	
14	3	17	88.9	1692	1041	11.86941	

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	14	75.3	1660	1997	0.321763	1
1	3	13	61.9	1377	1943	1.312537	
2	2	14	57	1722		3.090216	
3	2	13	83.1	1284		3.421418	
4	3	13	92.2	1020	1308	4.510617	
5	2	6	64.7	1870		6.368214	
6	1	19	85.6			6.556729	
7	2	15	59.1	1641		8.558305	
8	2	8	98.8	1299		9.346337	
9	3	16	81.8	1504	1123	10.438366	
10	2	17	80	1857		11.790377	

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	13	59.6			0.009488	1
1	2	6	68.4	1112		1.814494	
2	3	7	76.8	1206	1183	3.692797	
3	2	17	88.1	1552		5.794898	
4	2	13	75.2	1715		6.642011	
5	1	13	61.1			8.239161	
6	1	8	88.9			9.698718	
7	2	6	51.4	1843		11.509897	

Bin5 Statistics 26

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	20	93.4	1515	1979	0.48512	1
1	3	19	72	1048	1313	1.124734	
2	2	6	80	1098		2.532151	
3	1	18	94.4			3.465103	
4	2	13	61.4	1259		4.776366	
5	3	14	54	1294	1923	5.018779	
6	2	18	57.3	1868		6.866904	
7	2	19	64	1576		7.180449	
8	2	6	85.7	1784		8.040726	
9	2	11	71.7	1967		9.435436	
10	1	9	59.9			10.423566	
11	2	9	64.5	1755		11.014188	

Bin5 Statistics 27

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	7	65	1824		0.680973	1
1	3	18	67.3	1552	1069	1.402832	
2	2	11	69.4	1355		2.979773	
3	2	19	81.4	1605		3.631279	
4	2	19	76.2	1376		4.570018	
5	2	17	55.2	1634		5.685129	
6	2	18	91.8	1714		6.943392	
7	2	15	59.7	1820		7.737754	
8	2	19	85.7	1953		8.754721	
9	3	16	55.6	1883	1767	9.892653	
10	2	12	68.2	1710		10.714867	
11	2	19	93	1704		11.102634	

Bin5 Statistics 28

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	15	50.6	1119		0.123095	1
1	3	14	64.9	1636	1527	1.137924	
2	2	18	88.8	1501		1.379739	
3	2	12	97.5	1311		2.242699	
4	3	8	74	1873	1671	2.887742	
5	3	10	62.7	1749	1301	3.416781	
6	3	14	82.8	1728	1869	4.132321	
7	2	10	57	1350		4.730789	
8	3	11	72.4	1421	1419	5.121792	
9	2	18	70.7	1009		5.713143	
10	2	10	79.7	1273		6.592166	
11	2	20	98.4	1168		7.36055	
12	3	7	96	1693	1228	7.871402	
13	2	18	84.8	1289		8.434935	
14	2	9	56.7	1709		9.411387	
15	3	11	51.5	1107	1324	10.074568	
16	2	15	63.8	1349		10.659126	
17	1	15	72.7			11.290873	
18	1	7	56.9			11.377408	

Bin5 Statistics 29

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	7	53.7	1081	1405	0.816041	1
1	2	11	75.5	1175		1.130784	
2	2	11	88.1	1606		2.700528	
3	1	19	81.9			3.04792	
4	3	13	61.3	1773	1532	4.956133	
5	1	19	59.6			5.723614	
6	2	8	91.6	1171		6.297951	
7	2	18	87.3	1371		7.604602	
8	2	15	99.1	1550		8.628829	
9	3	10	74.4	1153	1041	9.553656	
10	2	18	76.7	1462		10.885631	
11	2	5	74.6	1772		11.430965	

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	9	96.6	1273	1588	0.459898	1
1	3	8	76.7	1901	1926	1.050038	
2	2	7	63.6	1091		1.511207	
3	2	9	72.9	1270		1.913043	
4	2	14	54.8	1983		3.13021	
5	2	19	68.3	1270		3.232715	
6	1	17	51.1			4.141763	
7	2	6	97.1	1293		4.820366	
8	2	6	76.9	1647		5.115213	
9	3	6	91.1	1142	1016	5.740054	
10	3	10	94.2	1176	1150	6.440419	
11	2	16	72.6	1893		6.984615	
12	3	18	79.4	1191	1744	7.584733	
13	2	15	67.7	1447		8.661915	
14	1	14	87.8			8.996136	
15	1	9	96.1			10.046631	
16	3	13	62.7	1651	1667	10.365137	
17	3	6	71.2	1074	1433	11.121327	
18	1	13	98.4			11.824252	

Table-6 Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)	Hopping Sequence
1	5270	9	1	333	1	5447.0, 5593.0, 5373.0, 5595.0, 5622.0, 5685.0, 5675.0, 5482.0, 5527.0, 5354.0, 5714.0, 5586.0, 5644.0, 5382.0, 5537.0, 5645.0, 5499.0, 5315.0, 5512.0, 5574.0, 5707.0, 5312.0, 5626.0, 5507.0, 5303.0, 5670.0, 5428.0, 5560.0, 5259.0, 5689.0, 5680.0, 5600.0, 5304.0, 5630.0, 5713.0, 5302.0, 5297.0, 5558.0, 5488.0, 5483.0, 5277.0, 5581.0, 5449.0, 5539.0, 5294.0, 5352.0, 5625.0, 5263.0, 5251.0, 5577.0, 5390.0, 5627.0, 5530.0, 5357.0, 5636.0, 5536.0, 5711.0, 5331.0, 5466.0, 5486.0, 5448.0, 5591.0, 5422.0, 5254.0, 5578.0, 5324.0, 5484.0, 5545.0, 5614.0, 5487.0, 5261.0, 5502.0, 5409.0, 5585.0, 5692.0, 5590.0, 5501.0, 5375.0, 5273.0, 5405.0, 5509.0, 5646.0, 5388.0, 5497.0, 5549.0, 5548.0, 5432.0, 5710.0, 5610.0, 5258.0, 5649.0, 5621.0, 5523.0, 5416.0, 5657.0, 5341.0, 5511.0, 5651.0, 5528.0, 5695.0 (number of hits: 6)
2	5270	9	1	333	1	5385.0, 5486.0, 5363.0, 5280.0, 5316.0, 5690.0, 5376.0, 5634.0, 5379.0, 5695.0, 5272.0, 5262.0, 5503.0, 5399.0, 5455.0, 5686.0, 5304.0, 5659.0, 5465.0, 5538.0, 5275.0, 5498.0, 5303.0, 5665.0, 5704.0, 5426.0, 5365.0, 5366.0, 5624.0, 5273.0, 5259.0, 5588.0, 5443.0, 5544.0, 5718.0, 5483.0, 5666.0, 5520.0, 5313.0, 5429.0, 5424.0, 5450.0, 5256.0, 5623.0, 5592.0, 5258.0, 5702.0, 5508.0, 5375.0, 5596.0, 5283.0, 5579.0, 5543.0, 5583.0, 5648.0, 5539.0, 5680.0, 5600.0, 5667.0, 5292.0, 5497.0, 5567.0, 5307.0, 5412.0, 5656.0, 5670.0, 5531.0, 5679.0, 5358.0, 5394.0, 5342.0, 5699.0, 5655.0, 5415.0, 5547.0, 5700.0, 5371.0, 5357.0, 5559.0, 5533.0, 5301.0, 5594.0, 5555.0, 5688.0, 5625.0, 5605.0, 5501.0, 5622.0, 5684.0, 5576.0, 5611.0, 5372.0, 5408.0, 5355.0, 5338.0, 5712.0, 5515.0, 5692.0, 5438.0, 5635.0 (number of hits: 6)
3	5270	9	1	333	1	5465.0, 5666.0, 5553.0, 5395.0, 5523.0, 5369.0, 5338.0, 5452.0, 5334.0, 5407.0, 5375.0, 5481.0, 5333.0, 5346.0, 5497.0, 5262.0, 5707.0, 5290.0, 5294.0, 5456.0, 5433.0, 5620.0, 5641.0, 5508.0, 5587.0, 5423.0, 5260.0, 5612.0, 5710.0, 5645.0, 5563.0, 5278.0, 5667.0, 5304.0, 5479.0, 5340.0, 5629.0, 5381.0, 5519.0, 5445.0, 5425.0, 5493.0, 5524.0, 5378.0, 5484.0, 5526.0, 5348.0, 5308.0, 5602.0, 5295.0, 5303.0, 5600.0, 5615.0, 5551.0, 5475.0, 5564.0, 5554.0, 5584.0, 5352.0, 5349.0,

						5688.0, 5406.0, 5677.0, 5431.0, 5513.0, 5700.0, 5332.0, 5408.0, 5494.0, 5353.0, 5616.0, 5271.0, 5486.0, 5326.0, 5646.0, 5603.0, 5341.0, 5506.0, 5639.0, 5608.0, 5365.0, 5284.0, 5500.0, 5652.0, 5568.0, 5715.0, 5610.0, 5482.0, 5343.0, 5633.0, 5478.0, 5648.0, 5706.0, 5383.0, 5344.0, 5377.0, 5549.0, 5441.0, 5405.0, 5574.0 (number of hits: 6)
4	5270	9	1	333	1	5364.0, 5396.0, 5289.0, 5658.0, 5592.0, 5321.0, 5683.0, 5432.0, 5447.0, 5706.0, 5639.0, 5324.0, 5521.0, 5307.0, 5644.0, 5349.0, 5343.0, 5439.0, 5667.0, 5708.0, 5488.0, 5463.0, 5613.0, 5566.0, 5263.0, 5374.0, 5470.0, 5599.0, 5665.0, 5278.0, 5267.0, 5597.0, 5552.0, 5325.0, 5564.0, 5332.0, 5348.0, 5255.0, 5345.0, 5568.0, 5650.0, 5721.0, 5274.0, 5695.0, 5492.0, 5690.0, 5301.0, 5590.0, 5305.0, 5619.0, 5551.0, 5633.0, 5659.0, 5649.0, 5571.0, 5367.0, 5516.0, 5455.0, 5536.0, 5361.0, 5365.0, 5425.0, 5300.0, 5286.0, 5712.0, 5454.0, 5357.0, 5502.0, 5528.0, 5588.0, 5557.0, 5543.0, 5334.0, 5641.0, 5684.0, 5438.0, 5715.0, 5622.0, 5272.0, 5285.0, 5535.0, 5412.0, 5346.0, 5662.0, 5556.0, 5503.0, 5302.0, 5627.0, 5490.0, 5461.0, 5294.0, 5598.0, 5550.0, 5707.0, 5581.0, 5451.0, 5634.0, 5554.0, 5677.0, 5339.0 (number of hits: 9)
5	5270	9	1	333	1	5457.0, 5677.0, 5404.0, 5486.0, 5540.0, 5718.0, 5266.0, 5301.0, 5419.0, 5519.0, 5409.0, 5678.0, 5289.0, 5312.0, 5446.0, 5336.0, 5383.0, 5638.0, 5275.0, 5645.0, 5558.0, 5444.0, 5636.0, 5438.0, 5686.0, 5642.0, 5618.0, 5264.0, 5579.0, 5547.0, 5680.0, 5498.0, 5622.0, 5702.0, 5458.0, 5326.0, 5432.0, 5410.0, 5563.0, 5420.0, 5687.0, 5407.0, 5348.0, 5363.0, 5629.0, 5384.0, 5666.0, 5421.0, 5668.0, 5608.0, 5411.0, 5345.0, 5533.0, 5368.0, 5314.0, 5509.0, 5470.0, 5705.0, 5352.0, 5603.0, 5459.0, 5356.0, 5524.0, 5431.0, 5527.0, 5403.0, 5456.0, 5561.0, 5274.0, 5595.0, 5480.0, 5582.0, 5460.0, 5477.0, 5538.0, 5505.0, 5378.0, 5278.0, 5333.0, 5665.0, 5532.0, 5644.0, 5614.0, 5369.0, 5572.0, 5604.0, 5320.0, 5476.0, 5701.0, 5354.0, 5493.0, 5717.0, 5295.0, 5576.0, 5355.0, 5704.0, 5674.0, 5433.0, 5439.0, 5316.0 (number of hits: 5)
6	5270	9	1	333	1	5695.0, 5642.0, 5529.0, 5372.0, 5459.0, 5679.0, 5251.0, 5625.0, 5345.0, 5471.0, 5615.0, 5523.0, 5273.0, 5421.0, 5386.0, 5409.0, 5335.0, 5415.0, 5551.0, 5440.0, 5360.0, 5603.0, 5307.0, 5291.0, 5364.0, 5451.0, 5633.0, 5252.0, 5434.0, 5323.0, 5565.0, 5389.0, 5297.0, 5702.0, 5428.0, 5276.0, 5334.0, 5441.0, 5537.0, 5598.0,

						5653.0, 5538.0, 5705.0, 5399.0, 5357.0, 5531.0, 5305.0, 5515.0, 5413.0, 5637.0, 5517.0, 5453.0, 5353.0, 5293.0, 5497.0, 5491.0, 5721.0, 5396.0, 5640.0, 5508.0, 5527.0, 5546.0, 5623.0, 5483.0, 5411.0, 5486.0, 5671.0, 5388.0, 5262.0, 5390.0, 5358.0, 5274.0, 5379.0, 5606.0, 5678.0, 5694.0, 5472.0, 5567.0, 5380.0, 5385.0, 5644.0, 5314.0, 5481.0, 5651.0, 5564.0, 5470.0, 5271.0, 5439.0, 5259.0, 5713.0, 5495.0, 5665.0, 5635.0, 5328.0, 5668.0, 5355.0, 5479.0, 5560.0, 5442.0, 5474.0 (number of hits: 6)
7	5270	9	1	333	1	5636.0, 5511.0, 5314.0, 5279.0, 5635.0, 5640.0, 5595.0, 5413.0, 5336.0, 5630.0, 5424.0, 5567.0, 5332.0, 5344.0, 5292.0, 5419.0, 5429.0, 5506.0, 5524.0, 5265.0, 5256.0, 5654.0, 5372.0, 5415.0, 5328.0, 5486.0, 5665.0, 5436.0, 5576.0, 5680.0, 5632.0, 5258.0, 5478.0, 5622.0, 5556.0, 5337.0, 5721.0, 5333.0, 5631.0, 5550.0, 5416.0, 5331.0, 5312.0, 5615.0, 5400.0, 5432.0, 5693.0, 5410.0, 5397.0, 5692.0, 5288.0, 5527.0, 5509.0, 5296.0, 5719.0, 5691.0, 5495.0, 5685.0, 5544.0, 5469.0, 5523.0, 5454.0, 5687.0, 5411.0, 5306.0, 5686.0, 5594.0, 5363.0, 5645.0, 5480.0, 5588.0, 5707.0, 5489.0, 5318.0, 5580.0, 5267.0, 5564.0, 5653.0, 5253.0, 5655.0, 5319.0, 5722.0, 5516.0, 5578.0, 5286.0, 5577.0, 5545.0, 5701.0, 5637.0, 5450.0, 5270.0, 5391.0, 5699.0, 5369.0, 5607.0, 5423.0, 5269.0, 5710.0, 5352.0, 5389.0 (number of hits: 7)
8	5270	9	1	333	1	5279.0, 5545.0, 5411.0, 5459.0, 5300.0, 5382.0, 5507.0, 5677.0, 5541.0, 5332.0, 5512.0, 5364.0, 5688.0, 5255.0, 5628.0, 5347.0, 5261.0, 5620.0, 5704.0, 5719.0, 5551.0, 5435.0, 5713.0, 5266.0, 5582.0, 5548.0, 5343.0, 5638.0, 5298.0, 5608.0, 5355.0, 5648.0, 5662.0, 5378.0, 5486.0, 5278.0, 5308.0, 5519.0, 5447.0, 5443.0, 5518.0, 5535.0, 5509.0, 5609.0, 5379.0, 5333.0, 5471.0, 5450.0, 5259.0, 5556.0, 5469.0, 5583.0, 5501.0, 5449.0, 5270.0, 5314.0, 5646.0, 5422.0, 5462.0, 5395.0, 5590.0, 5627.0, 5358.0, 5623.0, 5262.0, 5484.0, 5650.0, 5597.0, 5336.0, 5405.0, 5376.0, 5440.0, 5532.0, 5352.0, 5357.0, 5586.0, 5544.0, 5273.0, 5523.0, 5656.0, 5483.0, 5253.0, 5420.0, 5692.0, 5494.0, 5391.0, 5633.0, 5269.0, 5661.0, 5288.0, 5377.0, 5271.0, 5282.0, 5701.0, 5388.0, 5339.0, 5366.0, 5698.0, 5489.0, 5585.0 (number of hits: 5)
9	5270	9	1	333	1	5590.0, 5502.0, 5495.0, 5312.0, 5557.0, 5384.0, 5339.0, 5691.0, 5369.0, 5383.0, 5626.0, 5311.0, 5572.0, 5340.0, 5568.0, 5359.0, 5512.0, 5569.0, 5640.0, 5367.0,

						5724.0, 5672.0, 5707.0, 5616.0, 5658.0, 5669.0, 5403.0, 5470.0, 5467.0, 5715.0, 5424.0, 5485.0, 5316.0, 5578.0, 5310.0, 5621.0, 5388.0, 5259.0, 5442.0, 5271.0, 5647.0, 5332.0, 5481.0, 5277.0, 5488.0, 5280.0, 5721.0, 5601.0, 5269.0, 5670.0, 5362.0, 5529.0, 5291.0, 5307.0, 5258.0, 5455.0, 5385.0, 5678.0, 5473.0, 5656.0, 5722.0, 5702.0, 5420.0, 5324.0, 5382.0, 5660.0, 5425.0, 5596.0, 5265.0, 5519.0, 5287.0, 5685.0, 5322.0, 5605.0, 5533.0, 5531.0, 5407.0, 5370.0, 5278.0, 5321.0, 5251.0, 5507.0, 5649.0, 5593.0, 5556.0, 5459.0, 5447.0, 5620.0, 5692.0, 5530.0, 5323.0, 5582.0, 5602.0, 5431.0, 5576.0, 5705.0, 5545.0, 5345.0, 5440.0, 5419.0 (number of hits: 6)
10	5270	9	1	333	1	5685.0, 5497.0, 5548.0, 5543.0, 5281.0, 5647.0, 5532.0, 5380.0, 5335.0, 5417.0, 5580.0, 5406.0, 5621.0, 5651.0, 5550.0, 5559.0, 5665.0, 5507.0, 5684.0, 5598.0, 5697.0, 5698.0, 5364.0, 5488.0, 5432.0, 5521.0, 5303.0, 5464.0, 5525.0, 5468.0, 5467.0, 5379.0, 5423.0, 5306.0, 5454.0, 5363.0, 5351.0, 5415.0, 5262.0, 5479.0, 5545.0, 5649.0, 5469.0, 5602.0, 5427.0, 5517.0, 5705.0, 5258.0, 5370.0, 5552.0, 5686.0, 5441.0, 5466.0, 5531.0, 5539.0, 5658.0, 5670.0, 5354.0, 5642.0, 5615.0, 5261.0, 5385.0, 5327.0, 5619.0, 5371.0, 5487.0, 5586.0, 5491.0, 5693.0, 5440.0, 5663.0, 5498.0, 5609.0, 5431.0, 5279.0, 5368.0, 5348.0, 5474.0, 5361.0, 5680.0, 5412.0, 5408.0, 5500.0, 5376.0, 5362.0, 5286.0, 5641.0, 5666.0, 5605.0, 5396.0, 5495.0, 5411.0, 5421.0, 5691.0, 5461.0, 5571.0, 5267.0, 5459.0, 5600.0, 5375.0 (number of hits: 3)
11	5270	9	1	333	1	5706.0, 5453.0, 5265.0, 5645.0, 5665.0, 5401.0, 5497.0, 5580.0, 5348.0, 5492.0, 5414.0, 5314.0, 5308.0, 5420.0, 5476.0, 5491.0, 5548.0, 5337.0, 5634.0, 5512.0, 5478.0, 5428.0, 5587.0, 5711.0, 5657.0, 5581.0, 5642.0, 5374.0, 5586.0, 5269.0, 5432.0, 5378.0, 5388.0, 5607.0, 5666.0, 5584.0, 5685.0, 5324.0, 5689.0, 5562.0, 5594.0, 5258.0, 5426.0, 5708.0, 5359.0, 5484.0, 5485.0, 5501.0, 5613.0, 5461.0, 5567.0, 5419.0, 5527.0, 5582.0, 5363.0, 5365.0, 5519.0, 5356.0, 5534.0, 5651.0, 5509.0, 5551.0, 5694.0, 5701.0, 5384.0, 5446.0, 5637.0, 5662.0, 5583.0, 5310.0, 5364.0, 5723.0, 5375.0, 5399.0, 5523.0, 5569.0, 5603.0, 5486.0, 5673.0, 5577.0, 5302.0, 5670.0, 5475.0, 5323.0, 5532.0, 5589.0, 5406.0, 5588.0, 5559.0, 5668.0, 5639.0, 5617.0, 5299.0, 5386.0, 5627.0, 5644.0, 5397.0, 5291.0, 5316.0, 5647.0 (number of hits: 6)

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13	5270	9	1	333	1	5313.0, 5359.0, 5529.0, 5424.0, 5581.0, 5434.0, 5401.0, 5517.0, 5311.0, 5648.0, 5569.0, 5269.0, 5599.0, 5553.0, 5613.0, 5523.0, 5490.0, 5251.0, 5391.0, 5583.0, 5400.0, 5453.0, 5565.0, 5463.0, 5361.0, 5673.0, 5312.0, 5274.0, 5403.0, 5539.0, 5308.0, 5379.0, 5666.0, 5589.0, 5606.0, 5672.0, 5277.0, 5373.0, 5354.0, 5329.0, 5470.0, 5479.0, 5564.0, 5707.0, 5371.0, 5557.0, 5651.0, 5558.0, 5717.0, 5480.0, 5364.0, 5300.0, 5689.0, 5680.0, 5325.0, 5587.0, 5570.0, 5272.0, 5258.0, 5305.0, 5448.0, 5674.0, 5706.0, 5501.0, 5369.0, 5302.0, 5687.0, 5279.0, 5724.0, 5545.0, 5715.0, 5702.0, 5410.0, 5322.0, 5519.0, 5510.0, 5670.0, 5636.0, 5310.0, 5531.0, 5464.0, 5449.0, 5637.0, 5590.0, 5417.0, 5484.0, 5321.0, 5622.0, 5639.0, 5396.0, 5446.0, 5489.0, 5512.0, 5616.0, 5612.0, 5316.0, 5646.0, 5536.0, 5491.0, 5645.0 (number of hits: 8)
14	5270	9	1	333	1	5639.0, 5486.0, 5404.0, 5443.0, 5553.0, 5331.0, 5254.0, 5308.0, 5339.0, 5654.0, 5467.0, 5488.0, 5465.0, 5387.0, 5350.0, 5402.0, 5617.0, 5322.0, 5409.0, 5538.0, 5358.0, 5715.0, 5347.0, 5494.0, 5290.0, 5596.0, 5279.0, 5598.0, 5492.0, 5429.0, 5256.0, 5352.0, 5591.0, 5699.0, 5392.0, 5376.0, 5687.0, 5380.0, 5330.0, 5266.0, 5286.0, 5642.0, 5415.0, 5551.0, 5351.0, 5552.0, 5611.0, 5644.0, 5505.0, 5574.0, 5373.0, 5535.0, 5430.0, 5408.0, 5317.0, 5690.0, 5666.0, 5520.0, 5677.0, 5471.0, 5448.0, 5482.0, 5263.0, 5342.0, 5517.0, 5496.0, 5597.0, 5374.0, 5461.0, 5417.0, 5580.0, 5649.0, 5576.0, 5313.0, 5652.0, 5527.0, 5499.0, 5679.0, 5610.0, 5379.0, 5537.0, 5684.0, 5516.0, 5418.0, 5509.0

						5698.0, 5570.0, 5688.0, 5472.0, 5618.0, 5252.0, 5655.0, 5626.0, 5721.0, 5360.0, 5689.0, 5439.0, 5305.0, 5566.0, 5582.0 (number of hits: 5)
15	5270	9	1	333	1	5706.0, 5334.0, 5522.0, 5433.0, 5454.0, 5507.0, 5584.0, 5579.0, 5661.0, 5341.0, 5498.0, 5338.0, 5654.0, 5452.0, 5664.0, 5647.0, 5321.0, 5707.0, 5531.0, 5577.0, 5400.0, 5521.0, 5354.0, 5613.0, 5705.0, 5570.0, 5711.0, 5311.0, 5494.0, 5414.0, 5632.0, 5446.0, 5404.0, 5596.0, 5271.0, 5442.0, 5469.0, 5278.0, 5308.0, 5303.0, 5392.0, 5286.0, 5425.0, 5258.0, 5337.0, 5322.0, 5665.0, 5260.0, 5628.0, 5277.0, 5623.0, 5275.0, 5290.0, 5420.0, 5390.0, 5702.0, 5515.0, 5581.0, 5289.0, 5301.0, 5670.0, 5714.0, 5385.0, 5313.0, 5349.0, 5708.0, 5600.0, 5479.0, 5499.0, 5449.0, 5486.0, 5503.0, 5467.0, 5717.0, 5519.0, 5529.0, 5312.0, 5680.0, 5465.0, 5576.0, 5462.0, 5468.0, 5437.0, 5646.0, 5361.0, 5415.0, 5397.0, 5268.0, 5461.0, 5561.0, 5721.0, 5459.0, 5525.0, 5405.0, 5610.0, 5709.0, 5295.0, 5501.0, 5439.0, 5564.0 (number of hits: 10)
16	5270	9	1	333	1	5455.0, 5335.0, 5257.0, 5373.0, 5485.0, 5497.0, 5577.0, 5382.0, 5688.0, 5302.0, 5292.0, 5502.0, 5602.0, 5531.0, 5290.0, 5719.0, 5672.0, 5378.0, 5685.0, 5341.0, 5404.0, 5518.0, 5650.0, 5354.0, 5622.0, 5278.0, 5538.0, 5405.0, 5491.0, 5568.0, 5600.0, 5581.0, 5284.0, 5659.0, 5371.0, 5452.0, 5655.0, 5678.0, 5476.0, 5541.0, 5558.0, 5389.0, 5359.0, 5400.0, 5428.0, 5597.0, 5326.0, 5579.0, 5281.0, 5687.0, 5691.0, 5333.0, 5459.0, 5643.0, 5268.0, 5511.0, 5277.0, 5486.0, 5342.0, 5348.0, 5705.0, 5630.0, 5294.0, 5723.0, 5533.0, 5480.0, 5332.0, 5715.0, 5267.0, 5575.0, 5390.0, 5652.0, 5595.0, 5420.0, 5376.0, 5566.0, 5674.0, 5441.0, 5665.0, 5318.0, 5463.0, 5275.0, 5633.0, 5417.0, 5262.0, 5660.0, 5360.0, 5580.0, 5585.0, 5567.0, 5618.0, 5640.0, 5550.0, 5327.0, 5695.0, 5468.0, 5286.0, 5288.0, 5516.0, 5542.0 (number of hits: 6)
17	5270	9	1	333	1	5631.0, 5413.0, 5654.0, 5299.0, 5358.0, 5659.0, 5476.0, 5423.0, 5677.0, 5490.0, 5558.0, 5314.0, 5326.0, 5482.0, 5627.0, 5562.0, 5495.0, 5262.0, 5395.0, 5517.0, 5521.0, 5538.0, 5266.0, 5604.0, 5268.0, 5297.0, 5282.0, 5287.0, 5661.0, 5363.0, 5335.0, 5259.0, 5566.0, 5357.0, 5467.0, 5449.0, 5693.0, 5333.0, 5280.0, 5555.0, 5599.0, 5264.0, 5494.0, 5251.0, 5622.0, 5360.0, 5665.0, 5430.0, 5641.0, 5628.0, 5615.0, 5579.0, 5685.0, 5271.0, 5410.0, 5306.0, 5568.0, 5347.0, 5329.0, 5346.0, 5691.0, 5639.0, 5460.0, 5660.0, 5573.0,

						5344.0, 5551.0, 5352.0, 5507.0, 5429.0, 5711.0, 5284.0, 5710.0, 5692.0, 5439.0, 5328.0, 5700.0, 5664.0, 5721.0, 5648.0, 5309.0, 5647.0, 5263.0, 5663.0, 5403.0, 5384.0, 5279.0, 5671.0, 5397.0, 5256.0, 5556.0, 5581.0, 5552.0, 5255.0, 5408.0, 5506.0, 5321.0, 5414.0, 5528.0, 5462.0 (number of hits: 6)
18	5270	9	1	333	1	5452.0, 5339.0, 5680.0, 5330.0, 5563.0, 5283.0, 5382.0, 5486.0, 5430.0, 5384.0, 5606.0, 5252.0, 5633.0, 5268.0, 5693.0, 5417.0, 5329.0, 5400.0, 5375.0, 5715.0, 5358.0, 5697.0, 5409.0, 5275.0, 5650.0, 5618.0, 5305.0, 5456.0, 5663.0, 5550.0, 5647.0, 5253.0, 5534.0, 5295.0, 5517.0, 5673.0, 5404.0, 5427.0, 5368.0, 5701.0, 5299.0, 5581.0, 5255.0, 5718.0, 5482.0, 5374.0, 5544.0, 5298.0, 5524.0, 5658.0, 5695.0, 5689.0, 5436.0, 5698.0, 5601.0, 5274.0, 5413.0, 5355.0, 5314.0, 5499.0, 5607.0, 5533.0, 5675.0, 5665.0, 5667.0, 5310.0, 5716.0, 5609.0, 5474.0, 5522.0, 5406.0, 5694.0, 5335.0, 5577.0, 5571.0, 5545.0, 5260.0, 5547.0, 5481.0, 5443.0, 5431.0, 5386.0, 5439.0, 5536.0, 5649.0, 5267.0, 5390.0, 5564.0, 5265.0, 5420.0, 5446.0, 5480.0, 5350.0, 5458.0, 5475.0, 5383.0, 5560.0, 5714.0, 5372.0, 5341.0 (number of hits: 6)
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20	5270	9	1	333	1	5451.0, 5631.0, 5642.0, 5519.0, 5573.0, 5459.0, 5266.0, 5311.0, 5281.0, 5505.0, 5345.0, 5623.0, 5474.0, 5698.0, 5723.0, 5383.0, 5574.0, 5582.0, 5263.0, 5262.0, 5447.0, 5516.0, 5543.0, 5653.0, 5293.0, 5677.0, 5400.0, 5261.0, 5490.0, 5486.0, 5696.0, 5645.0, 5690.0, 5366.0, 5353.0, 5280.0, 5491.0, 5621.0, 5485.0, 5342.0, 5300.0, 5492.0, 5713.0, 5396.0, 5564.0,

						5378.0, 5536.0, 5386.0, 5533.0, 5331.0, 5549.0, 5659.0, 5599.0, 5616.0, 5691.0, 5556.0, 5560.0, 5550.0, 5267.0, 5292.0, 5496.0, 5487.0, 5650.0, 5515.0, 5553.0, 5417.0, 5432.0, 5397.0, 5589.0, 5685.0, 5435.0, 5637.0, 5290.0, 5338.0, 5526.0, 5355.0, 5675.0, 5626.0, 5454.0, 5569.0, 5602.0, 5503.0, 5590.0, 5443.0, 5285.0, 5591.0, 5502.0, 5708.0, 5377.0, 5381.0, 5416.0, 5450.0, 5604.0, 5351.0, 5673.0, 5462.0, 5289.0, 5286.0, 5720.0, 5317.0 (number of hits: 8)
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22	5270	9	1	333	1	5605.0, 5654.0, 5461.0, 5689.0, 5499.0, 5335.0, 5438.0, 5598.0, 5362.0, 5406.0, 5691.0, 5569.0, 5591.0, 5370.0, 5716.0, 5262.0, 5567.0, 5309.0, 5444.0, 5506.0, 5552.0, 5507.0, 5253.0, 5624.0, 5373.0, 5611.0, 5285.0, 5308.0, 5584.0, 5399.0, 5339.0, 5553.0, 5439.0, 5626.0, 5683.0, 5353.0, 5646.0, 5305.0, 5276.0, 5466.0, 5453.0, 5712.0, 5575.0, 5640.0, 5696.0, 5505.0, 5637.0, 5477.0, 5648.0, 5572.0, 5395.0, 5666.0, 5607.0, 5541.0, 5347.0, 5284.0, 5422.0, 5488.0, 5709.0, 5675.0, 5450.0, 5411.0, 5421.0, 5327.0, 5568.0, 5280.0, 5668.0, 5664.0, 5643.0, 5587.0, 5718.0, 5523.0, 5516.0, 5300.0, 5401.0, 5363.0, 5297.0, 5547.0, 5400.0, 5330.0, 5267.0, 5412.0, 5263.0, 5665.0, 5723.0, 5487.0, 5639.0, 5558.0, 5576.0, 5525.0, 5389.0, 5367.0, 5483.0, 5334.0, 5633.0, 5596.0, 5720.0, 5391.0, 5649.0, 5458.0 (number of hits: 6)
23	5270	9	1	333	1	5258.0, 5389.0, 5515.0, 5537.0, 5628.0, 5369.0, 5670.0, 5363.0, 5356.0, 5705.0, 5255.0, 5270.0, 5298.0, 5296.0, 5410.0, 5549.0, 5432.0, 5367.0, 5390.0, 5313.0, 5371.0, 5540.0, 5591.0, 5314.0, 5492.0,

						5666.0, 5351.0, 5344.0, 5438.0, 5712.0, 5424.0, 5569.0, 5519.0, 5633.0, 5379.0, 5565.0, 5597.0, 5557.0, 5604.0, 5646.0, 5449.0, 5288.0, 5639.0, 5663.0, 5651.0, 5321.0, 5499.0, 5326.0, 5482.0, 5722.0, 5603.0, 5657.0, 5612.0, 5395.0, 5648.0, 5543.0, 5315.0, 5718.0, 5497.0, 5413.0, 5403.0, 5692.0, 5632.0, 5695.0, 5574.0, 5689.0, 5480.0, 5688.0, 5518.0, 5578.0, 5400.0, 5665.0, 5310.0, 5402.0, 5505.0, 5420.0, 5332.0, 5306.0, 5584.0, 5568.0, 5444.0, 5605.0, 5459.0, 5690.0, 5312.0, 5485.0, 5564.0, 5469.0, 5380.0, 5576.0, 5271.0, 5462.0, 5652.0, 5451.0, 5385.0, 5388.0, 5559.0, 5295.0, 5504.0, 5357.0 (number of hits: 9)
24	5270	9	1	333	1	5477.0, 5610.0, 5603.0, 5360.0, 5490.0, 5522.0, 5336.0, 5295.0, 5669.0, 5279.0, 5664.0, 5721.0, 5378.0, 5467.0, 5700.0, 5554.0, 5570.0, 5676.0, 5530.0, 5599.0, 5623.0, 5433.0, 5549.0, 5356.0, 5547.0, 5398.0, 5409.0, 5693.0, 5621.0, 5260.0, 5606.0, 5566.0, 5677.0, 5400.0, 5692.0, 5508.0, 5435.0, 5395.0, 5487.0, 5352.0, 5333.0, 5399.0, 5703.0, 5505.0, 5300.0, 5359.0, 5308.0, 5685.0, 5343.0, 5255.0, 5348.0, 5275.0, 5330.0, 5350.0, 5385.0, 5380.0, 5525.0, 5357.0, 5298.0, 5441.0, 5266.0, 5411.0, 5472.0, 5437.0, 5489.0, 5293.0, 5365.0, 5551.0, 5704.0, 5452.0, 5374.0, 5315.0, 5670.0, 5485.0, 5717.0, 5341.0, 5345.0, 5526.0, 5529.0, 5699.0, 5591.0, 5413.0, 5425.0, 5439.0, 5662.0, 5286.0, 5316.0, 5254.0, 5306.0, 5421.0, 5386.0, 5296.0, 5527.0, 5368.0, 5351.0, 5335.0, 5312.0, 5708.0, 5622.0, 5644.0 (number of hits: 9)
25	5270	9	1	333	1	5347.0, 5423.0, 5529.0, 5610.0, 5660.0, 5641.0, 5562.0, 5351.0, 5478.0, 5649.0, 5442.0, 5692.0, 5494.0, 5286.0, 5326.0, 5401.0, 5328.0, 5259.0, 5395.0, 5695.0, 5483.0, 5449.0, 5336.0, 5267.0, 5476.0, 5614.0, 5391.0, 5709.0, 5554.0, 5648.0, 5572.0, 5403.0, 5693.0, 5601.0, 5346.0, 5294.0, 5251.0, 5635.0, 5365.0, 5506.0, 5634.0, 5463.0, 5264.0, 5278.0, 5361.0, 5310.0, 5523.0, 5413.0, 5584.0, 5424.0, 5451.0, 5663.0, 5496.0, 5344.0, 5410.0, 5279.0, 5627.0, 5312.0, 5305.0, 5370.0, 5604.0, 5596.0, 5296.0, 5280.0, 5369.0, 5388.0, 5254.0, 5548.0, 5376.0, 5632.0, 5283.0, 5564.0, 5409.0, 5621.0, 5675.0, 5587.0, 5659.0, 5606.0, 5383.0, 5406.0, 5427.0, 5349.0, 5696.0, 5630.0, 5450.0, 5462.0, 5331.0, 5674.0, 5338.0, 5685.0, 5368.0, 5667.0, 5699.0, 5322.0, 5704.0, 5355.0, 5669.0, 5330.0, 5653.0, 5350.0 (number of hits: 6)
26	5270	9	1	333	1	5526.0, 5633.0, 5315.0, 5337.0, 5537.0,

						5469.0, 5706.0, 5440.0, 5360.0, 5723.0, 5328.0, 5280.0, 5284.0, 5348.0, 5399.0, 5367.0, 5431.0, 5714.0, 5392.0, 5689.0, 5262.0, 5425.0, 5333.0, 5684.0, 5690.0, 5352.0, 5278.0, 5395.0, 5648.0, 5310.0, 5429.0, 5404.0, 5316.0, 5542.0, 5626.0, 5481.0, 5334.0, 5501.0, 5267.0, 5476.0, 5374.0, 5717.0, 5435.0, 5701.0, 5508.0, 5581.0, 5687.0, 5566.0, 5274.0, 5292.0, 5592.0, 5487.0, 5559.0, 5715.0, 5516.0, 5393.0, 5497.0, 5612.0, 5619.0, 5471.0, 5694.0, 5644.0, 5534.0, 5301.0, 5483.0, 5511.0, 5543.0, 5290.0, 5594.0, 5515.0, 5671.0, 5293.0, 5624.0, 5325.0, 5608.0, 5402.0, 5596.0, 5269.0, 5456.0, 5568.0, 5464.0, 5572.0, 5306.0, 5589.0, 5685.0, 5627.0, 5560.0, 5268.0, 5272.0, 5353.0, 5405.0, 5458.0, 5549.0, 5631.0, 5455.0, 5466.0, 5623.0, 5255.0, 5357.0, 5305.0 (number of hits: 7)
27	5270	9	1	333	1	5564.0, 5411.0, 5554.0, 5341.0, 5451.0, 5576.0, 5297.0, 5695.0, 5677.0, 5511.0, 5684.0, 5475.0, 5370.0, 5281.0, 5534.0, 5614.0, 5481.0, 5712.0, 5458.0, 5307.0, 5633.0, 5506.0, 5399.0, 5454.0, 5473.0, 5462.0, 5501.0, 5350.0, 5691.0, 5521.0, 5445.0, 5467.0, 5431.0, 5320.0, 5513.0, 5696.0, 5437.0, 5494.0, 5409.0, 5709.0, 5419.0, 5524.0, 5455.0, 5652.0, 5663.0, 5260.0, 5417.0, 5367.0, 5456.0, 5358.0, 5650.0, 5577.0, 5310.0, 5328.0, 5547.0, 5687.0, 5676.0, 5452.0, 5567.0, 5422.0, 5293.0, 5661.0, 5250.0, 5658.0, 5643.0, 5397.0, 5583.0, 5486.0, 5692.0, 5256.0, 5303.0, 5405.0, 5286.0, 5469.0, 5499.0, 5606.0, 5560.0, 5392.0, 5387.0, 5531.0, 5270.0, 5543.0, 5391.0, 5324.0, 5685.0, 5493.0, 5537.0, 5507.0, 5279.0, 5376.0, 5579.0, 5568.0, 5693.0, 5615.0, 5407.0, 5656.0, 5318.0, 5427.0, 5517.0, 5305.0 (number of hits: 7)
28	5270	9	1	333	1	5565.0, 5415.0, 5290.0, 5386.0, 5614.0, 5390.0, 5337.0, 5378.0, 5580.0, 5601.0, 5609.0, 5723.0, 5599.0, 5720.0, 5364.0, 5422.0, 5589.0, 5401.0, 5584.0, 5467.0, 5367.0, 5400.0, 5709.0, 5698.0, 5361.0, 5385.0, 5359.0, 5613.0, 5464.0, 5387.0, 5381.0, 5524.0, 5397.0, 5394.0, 5608.0, 5289.0, 5689.0, 5604.0, 5257.0, 5582.0, 5435.0, 5456.0, 5672.0, 5477.0, 5391.0, 5369.0, 5610.0, 5703.0, 5341.0, 5321.0, 5597.0, 5368.0, 5363.0, 5600.0, 5371.0, 5711.0, 5530.0, 5554.0, 5470.0, 5365.0, 5307.0, 5484.0, 5507.0, 5446.0, 5412.0, 5431.0, 5528.0, 5335.0, 5535.0, 5267.0, 5329.0, 5443.0, 5297.0, 5271.0, 5410.0, 5352.0, 5550.0, 5324.0, 5562.0, 5591.0, 5255.0, 5461.0, 5478.0, 5362.0, 5373.0, 5432.0, 5518.0, 5495.0, 5275.0, 5295.0

						5454.0, 5392.0, 5615.0, 5343.0, 5372.0, 5306.0, 5686.0, 5379.0, 5667.0, 5265.0 (number of hits: 6)
29	5270	9	1	333	1	5252.0, 5694.0, 5687.0, 5267.0, 5265.0, 5449.0, 5612.0, 5263.0, 5460.0, 5468.0, 5461.0, 5586.0, 5592.0, 5645.0, 5552.0, 5522.0, 5722.0, 5678.0, 5442.0, 5446.0, 5501.0, 5673.0, 5707.0, 5433.0, 5440.0, 5436.0, 5603.0, 5301.0, 5702.0, 5431.0, 5593.0, 5511.0, 5350.0, 5713.0, 5261.0, 5307.0, 5602.0, 5289.0, 5646.0, 5453.0, 5632.0, 5505.0, 5677.0, 5656.0, 5531.0, 5300.0, 5594.0, 5555.0, 5414.0, 5569.0, 5346.0, 5473.0, 5672.0, 5428.0, 5352.0, 5649.0, 5349.0, 5616.0, 5366.0, 5666.0, 5577.0, 5663.0, 5369.0, 5623.0, 5438.0, 5668.0, 5312.0, 5360.0, 5323.0, 5597.0, 5333.0, 5582.0, 5523.0, 5495.0, 5280.0, 5723.0, 5377.0, 5641.0, 5342.0, 5557.0, 5324.0, 5331.0, 5584.0, 5620.0, 5284.0, 5548.0, 5559.0, 5692.0, 5283.0, 5624.0, 5348.0, 5444.0, 5250.0, 5464.0, 5390.0, 5262.0, 5553.0, 5709.0, 5528.0, 5545.0 (number of hits: 5)
30	5270	9	1	333	1	5627.0, 5595.0, 5415.0, 5275.0, 5386.0, 5621.0, 5555.0, 5331.0, 5341.0, 5510.0, 5667.0, 5474.0, 5402.0, 5276.0, 5420.0, 5684.0, 5322.0, 5335.0, 5528.0, 5618.0, 5704.0, 5414.0, 5647.0, 5708.0, 5312.0, 5527.0, 5442.0, 5447.0, 5672.0, 5554.0, 5663.0, 5417.0, 5464.0, 5678.0, 5701.0, 5251.0, 5485.0, 5287.0, 5270.0, 5397.0, 5589.0, 5252.0, 5409.0, 5614.0, 5345.0, 5435.0, 5363.0, 5285.0, 5296.0, 5665.0, 5674.0, 5385.0, 5514.0, 5268.0, 5372.0, 5537.0, 5380.0, 5558.0, 5470.0, 5436.0, 5584.0, 5367.0, 5401.0, 5269.0, 5451.0, 5260.0, 5675.0, 5594.0, 5716.0, 5507.0, 5307.0, 5500.0, 5601.0, 5634.0, 5613.0, 5284.0, 5565.0, 5536.0, 5610.0, 5430.0, 5320.0, 5356.0, 5612.0, 5471.0, 5450.0, 5432.0, 5379.0, 5463.0, 5722.0, 5519.0, 5388.0, 5272.0, 5545.0, 5478.0, 5677.0, 5361.0, 5552.0, 5301.0, 5577.0, 5645.0 (number of hits: 6)

5550 MHz, 40 MHz Bandwidth

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

Please refer to the following statistical tables:

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

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5550	78	1	678	1
2	5550	61	1	878	1
3	5550	65	1	818	1
4	5550	83	1	638	1
5	5550	67	1	798	1
6	5550	99	1	538	1
7	5550	68	1	778	1
8	5550	62	1	858	1
9	5550	72	1	738	1
10	5550	58	1	918	1
11	5550	57	1	938	1
12	5550	76	1	698	1
13	5550	81	1	658	1
14	5550	95	1	558	1
15	5550	92	1	578	1
16	5550	27	1	2022	1
17	5550	24	1	2202	1
18	5550	21	1	2628	1
19	5550	43	1	1245	1
20	5550	58	1	910	1
21	5550	30	1	1816	1
22	5550	29	1	1829	1
23	5550	67	1	794	1
24	5550	20	1	2641	1
25	5550	24	1	2273	1
26	5550	30	1	1805	1
27	5550	40	1	1328	1
28	5550	35	1	1530	1
29	5550	26	1	2076	1
30	5550	23	1	2372	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	5550	25	2.8	201	1
2	5550	27	3.6	197	1
3	5550	25	1.4	197	1
4	5550	24	3.4	222	1
5	5550	29	3.8	212	1
6	5550	27	4.8	199	1
7	5550	27	2.1	227	1
8	5550	27	3	201	1
9	5550	27	4.8	189	1
10	5550	27	3.7	205	1
11	5550	23	2.8	219	1
12	5550	24	1.8	200	1
13	5550	27	4	163	1
14	5550	29	1.2	227	1
15	5550	24	2	181	1
16	5550	24	1.6	188	1
17	5550	25	3.3	157	1
18	5550	27	4.8	227	1
19	5550	25	1.4	225	1
20	5550	25	4.5	150	1
21	5550	23	1.3	176	1
22	5550	27	1.1	152	1
23	5550	24	2.1	190	1
24	5550	26	3.7	165	1
25	5550	24	2.3	229	1
26	5550	27	4.6	189	1
27	5550	28	2.7	188	1
28	5550	23	4.3	217	1
29	5550	23	2.4	206	1
30	5550	24	2.5	217	1
Detection Percentage: 100 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (μS)	PRI (μs)	Detection (1:yes; 0:no)
1	5550	18	9.8	335	1
2	5550	17	7.5	276	1
3	5550	16	6.3	423	1
4	5550	17	7.4	357	1
5	5550	17	6.7	351	1
6	5550	17	9.2	459	1
7	5550	16	9.2	385	1
8	5550	16	9.5	436	1
9	5550	16	7.9	369	1
10	5550	17	8.5	236	1
11	5550	18	7.8	327	1
12	5550	17	6	404	1
13	5550	16	6.2	459	1
14	5550	16	8.3	424	1
15	5550	16	7.6	308	1
16	5550	18	6.6	206	1
17	5550	16	6.9	428	1
18	5550	18	7.6	323	1
19	5550	17	7	477	1
20	5550	18	8.9	487	1
21	5550	18	9.7	367	1
22	5550	18	8.7	224	1
23	5550	18	7.3	282	1
24	5550	16	7	473	1
25	5550	18	8.3	252	1
26	5550	18	7.9	391	1
27	5550	17	8.6	264	1
28	5550	17	8.8	450	1
29	5550	17	6.7	497	1
30	5550	18	7.9	218	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	5550	13	13.4	221	1
2	5550	12	20	361	1
3	5550	12	12	354	1
4	5550	15	16.9	469	1
5	5550	16	15.9	327	1
6	5550	14	13.8	293	1
7	5550	13	13	429	1
8	5550	15	17.2	362	1
9	5550	14	13.1	400	1
10	5550	13	16.5	401	1
11	5550	12	15.5	363	1
12	5550	13	12.6	346	1
13	5550	16	18.1	479	1
14	5550	14	16.2	389	1
15	5550	14	11.1	431	1
16	5550	13	14.8	325	1
17	5550	14	16.7	356	1
18	5550	13	15.4	412	1
19	5550	13	16.3	423	1
20	5550	14	13.1	213	1
21	5550	14	14.7	292	1
22	5550	12	17.8	377	1
23	5550	16	14.3	389	1
24	5550	13	16.4	442	1
25	5550	14	16	361	1
26	5550	15	17.4	415	1
27	5550	15	14.1	207	1
28	5550	15	15.9	318	1
29	5550	14	18.7	476	1
30	5550	13	15.7	273	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	12	52.4	1026		0.201637	1
1	1	16	52			0.923781	
2	2	6	50.9	1491		2.671975	
3	3	16	83	1050	1310	3.005934	
4	2	16	69	1801		3.9379	
5	1	16	71.7			5.404413	
6	1	5	82.1			6.067775	
7	3	11	55.9	1979	1183	6.832253	
8	1	14	69.7			7.508697	
9	1	16	66.5			8.461131	
10	1	13	53.5			9.494993	
11	1	20	74.7			10.348858	
12	2	8	72.6	1141		11.321361	

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	5	80.1	1880		0.961809	1
1	2	15	95.1	1524		1.665371	
2	2	17	52	1069		2.679476	
3	3	8	79	1106	1399	3.472341	
4	2	15	51.6	1750		4.637031	
5	3	13	76.7	1790	1847	5.064298	
6	2	7	53.9	1689		6.733702	
7	2	7	84.6	1167		7.274415	
8	2	12	61	1253		8.280776	
9	1	7	53.7			9.362302	
10	2	13	91	1575		10.081007	
11	2	14	69.1	1970		11.456624	

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	8	73.7			0.713208	1
1	2	15	50.2	1905		1.891939	
2	2	10	83.2	1160		3.213744	
3	2	7	59.5	1610		5.500059	
4	2	11	75.9	1475		6.559971	
5	2	13	84.8	1701		8.468776	
6	1	15	73.4			9.348889	
7	2	10	67.9	1870		11.645966	

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	18	72.6	1997		0.067266	1
1	2	9	59	1956		1.419177	
2	2	10	63.4	1281		1.779356	
3	2	8	58.9	1117		2.497992	
4	2	7	52.3	1751		3.299238	
5	1	16	58.4			4.089906	
6	2	13	55.1	1793		5.104018	
7	2	5	85.4	1167		5.679666	
8	3	9	95.6	1406	1475	6.01838	
9	2	19	56.4	1206		7.031968	
10	2	20	57.8	1677		7.531166	
11	3	17	64.4	1372	1457	8.328294	
12	2	12	74.8	1895		9.087799	
13	3	19	84.3	1746	1654	10.190704	
14	1	17	74.2			10.975554	
15	3	19	55.8	1851	1166	11.290731	

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	9	93.1			1.096795	1
1	3	7	89	1110	1856	1.221489	
2	3	14	92.9	1813	1794	3.178962	
3	3	13	62.6	1320	1603	4.292321	
4	2	16	53.8	1363		5.43436	
5	3	7	79.9	1136	1394	6.7453	
6	3	14	95	1388	1853	7.624822	
7	2	6	96.6	1419		8.587018	
8	1	20	85.8			10.324406	
9	2	9	81.3	1709		11.012534	

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	10	60.9			0.204062	1
1	1	13	85.5			1.020837	
2	2	19	87.1	1458		1.597603	
3	2	19	79.5	1178		2.351105	
4	2	16	91.8	1367		2.85581	
5	2	9	68.9	1056		3.171778	
6	3	6	65.6	1937	1212	4.181916	
7	1	16	73.7			4.845958	
8	2	8	70.5	1264		5.281518	
9	1	6	80.8			6.068794	
10	1	11	87.9			6.760464	
11	2	6	88.9	1165		7.442429	
12	1	15	99.4			7.641315	
13	2	16	93.2	1532		8.367714	
14	2	11	81.4	1831		9.130065	
15	3	6	63.3	1386	1160	10.085509	
16	3	13	84.7	1575	1265	10.64718	
17	2	14	55.2	1721		11.157319	
18	2	8	67.4	1258		11.807354	

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	12	76.6	1478	1414	0.566556	1
1	3	9	71.3	1407	1159	0.946623	
2	2	18	79	1239		1.832576	
3	2	17	96.7	1268		2.449271	
4	2	14	81	1633		2.974712	
5	1	17	52.3			3.294621	
6	2	20	72	1104		4.372214	
7	1	11	77.8			5.039099	
8	2	8	92.6	1556		5.149866	
9	1	17	75.8			6.238481	
10	2	14	90.8	1494		6.68026	
11	3	19	62.7	1768	1501	7.235184	
12	2	15	92.1	1768		8.053102	
13	2	10	72.7	1178		8.491317	
14	1	6	95.1			9.393093	
15	2	8	71.5	1641		10.027122	
16	2	19	63.7	1857		10.713494	
17	2	20	67.3	1356		10.932956	
18	2	11	62.8	1313		11.574247	

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	17	60.3	1610		0.818694	1
1	2	15	87.9	1103		1.214692	
2	2	18	56.2	1276		1.924169	
3	2	9	90.8	1733		3.34258	
4	1	17	67.6			3.693161	
5	2	9	64.3	1423		5.02396	
6	2	10	69.8	1032		5.447881	
7	2	14	71.5	1906		6.586626	
8	3	12	75.6	1545	1559	7.683392	
9	2	13	54.9	1615		7.950431	
10	3	17	94.6	1854	1896	8.760565	
11	1	6	84.4			9.943512	
12	3	14	73	1282	1750	10.59858	
13	2	12	61.5	1249		11.719529	

Bin5 Statistics 9

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	8	69.6	1374	1463	0.555373	1
1	2	9	75.8	1915		1.594935	
2	3	19	58.1	1246	1919	3.492804	
3	2	7	78.7	1116		4.664621	
4	3	15	62.5	1246	1197	6.464626	
5	1	17	51.5			7.211608	
6	2	8	87.3	1422		8.948799	
7	2	13	51.2	1584		9.82406	
8	2	14	90.4	1522		11.335393	

Bin5 Statistics 10

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	5	84.7	1223	1375	0.725608	1
1	2	7	55.7	1510		1.355715	
2	3	9	67.1	1798	1588	1.59693	
3	2	6	98.7	1542		2.471069	
4	2	8	89.7	1477		3.159897	
5	2	8	87.1	1596		3.969047	
6	2	8	84.5	1949		5.163009	
7	1	6	73.5			5.515057	
8	2	11	62.2	1509		6.544237	
9	2	9	72	1778		6.889194	
10	1	12	84.8			7.748069	
11	2	16	70.5	1162		8.923131	
12	3	19	50	1485	1383	9.086591	
13	2	10	63.5	1329		10.198532	
14	3	14	81	1663	1377	11.12659	
15	1	17	84.5			11.952729	

Bin5 Statistics 11

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	20	78.5			0.159869	1
1	2	19	84.3	1027		2.725014	
2	2	9	63.7	1200		3.440033	
3	2	10	52.2	1290		4.652152	
4	2	17	51	1073		7.42415	
5	2	17	66.1	1939		7.750907	
6	2	7	76	1254		9.449524	
7	2	10	82.8	1530		10.921895	

Bin5 Statistics 12

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	16	62.7	1378		0.576345	1
1	1	13	63			0.804685	
2	1	12	93.4			1.600204	
3	1	19	75.6			2.177068	
4	2	11	64.1	1531		2.695135	
5	1	15	93.6			3.345643	
6	2	16	71.9	1726		3.809893	
7	1	8	80.9			4.671716	
8	1	17	81.7			5.328757	
9	3	14	85.7	1785	1537	5.980271	
10	1	12	91.9			6.317681	
11	2	5	81.1	1143		7.023682	
12	1	10	99.6			7.95343	
13	3	14	97	1144	1181	8.29005	
14	2	8	69.2	1535		9.338182	
15	2	7	98.8	1343		9.67699	
16	1	15	69			10.11634	
17	2	20	99.4	1267		11.273461	
18	2	11	52.4	1093		11.859838	

Bin5 Statistics 13

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	17	60.2	1607	1010	0.096101	1
1	2	13	62.8	1379		1.371449	
2	1	19	85.4			2.240334	
3	1	17	83.8			2.805334	
4	3	20	72.8	1192	1290	3.962842	
5	3	15	54.2	1390	1293	4.455241	
6	2	6	77	1415		5.034658	
7	2	18	53.8	1169		5.627947	
8	2	12	55	1963		6.692758	
9	1	18	60.2			7.24586	
10	2	13	97.6	1032		8.617891	
11	3	16	72.5	1534	1510	8.887116	
12	3	16	51.2	1039	1584	10.024582	
13	2	14	71	1529		10.581252	
14	3	17	68.4	1561	1615	11.610549	

Bin5 Statistics 14

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	11	95.4			0.063006	1
1	2	7	96.4	1509		1.402951	
2	1	11	96.9			2.047316	
3	3	19	57.7	1478	1438	2.325766	
4	3	14	62.5	1633	1055	3.72563	
5	2	18	94.4	1756		4.08455	
6	2	19	99	1665		5.229152	
7	2	5	90.9	1081		5.395725	
8	3	12	88.5	1199	1726	6.076303	
9	1	14	53.9			7.482705	
10	3	12	91.6	1551	1419	7.597519	
11	2	14	74.9	1488		8.948644	
12	1	17	90.1			9.506441	
13	1	15	90.8			10.109976	
14	1	17	99.5			11.171828	
15	1	8	61.1			11.760361	

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	11	62	1209		0.544662	1
1	2	12	92.9	1184		0.941659	
2	3	9	78.1	1448	1539	2.250395	
3	2	17	51.3	1771		2.897323	
4	3	7	90.9	1695	1853	3.926148	
5	2	15	89.2	1994		4.056409	
6	1	17	59.1			4.877773	
7	2	15	69.1	1915		5.781002	
8	2	8	99.9	1563		6.726888	
9	1	12	53.8			7.407588	
10	2	13	75.4	1344		8.706349	
11	2	7	85.3	1870		9.331028	
12	3	6	63	1936	1455	10.151237	
13	1	14	77.1			11.141856	
14	3	5	84.5	1822	1317	11.959469	

Bin5 Statistics 16

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	9	63.1			0.845171	1
1	3	12	59.1	1992	1934	1.34879	
2	2	19	52	1037		2.724218	
3	3	11	76	1043	1047	3.456558	
4	3	12	89.9	1569	1022	4.34617	
5	1	11	73.3			4.897058	
6	3	8	85.7	1773	1929	6.395579	
7	3	8	51.6	1291	1535	7.227088	
8	2	7	90.5	1825		8.240455	
9	1	6	79.8			9.209132	
10	2	11	76.6	1966		9.594202	
11	2	17	80.1	1493		10.970598	
12	3	13	92.7	1314	1997	11.746292	

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	9	66.5	1086		1.495297	1
1	1	8	60.5			1.824316	
2	2	9	66.2	1008		4.337394	
3	2	18	94	1605		5.680734	
4	2	7	57.5	1999		7.196807	
5	2	8	91.4	1248		8.415014	
6	2	7	63.4	1650		9.869099	
7	2	20	78.1	1996		11.865016	

Bin5 Statistics 18

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	13	65.6			0.800438	1
1	2	19	95	1881		1.396137	
2	2	6	62.8	1322		2.636244	
3	1	15	62.2			3.113894	
4	1	14	61.3			4.091631	
5	1	14	58.9			5.41717	
6	2	7	66.7	1291		6.102569	
7	2	15	87.2	1072		7.022522	
8	1	12	75.5			8.171339	
9	3	14	53.6	1993	1967	9.473982	
10	2	18	53.9	1887		10.256594	
11	3	11	50.1	1206	1665	11.402828	

Bin5 Statistics 19

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	11	56.8			0.843189	1
1	2	8	99	1712		1.687381	
2	2	12	65.3	1262		2.791993	
3	2	5	99	1237		3.599563	
4	3	12	89.4	1451	1290	5.221928	
5	1	20	84.9			5.899209	
6	2	16	87.1	1971		7.003558	
7	1	14	54.9			7.959981	
8	2	11	52.4	1895		9.019562	
9	2	9	62.5	1583		10.79651	
10	2	15	68.2	1731		11.169056	

Bin5 Statistics 20

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	18	73.3	1459		0.241116	1
1	2	11	79	1961		1.528197	
2	2	11	62.3	1645		2.076497	
3	1	15	51.2			2.925595	
4	1	7	84.4			4.265345	
5	2	13	86.5	1357		5.069363	
6	3	18	63.4	1889	1949	6.22463	
7	2	11	96.3	1681		7.307124	
8	1	5	63			7.974004	
9	1	5	65.8			8.831533	
10	3	12	98.4	1119	1815	9.701884	
11	1	15	78.3			10.159886	
12	2	20	90.4	1338		11.692269	

Bin5 Statistics 21

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	20	97.8	1598	1328	0.361101	1
1	3	6	78.6	1909	1539	1.223085	
2	1	17	54.4			1.799969	
3	2	11	79.1	1969		2.60219	
4	1	8	53.2			3.551038	
5	1	17	93.9			4.439107	
6	2	11	85.9	1427		4.724004	
7	3	15	64.7	1939	1047	5.419225	
8	2	18	93.5	1677		6.334687	
9	2	15	66.4	1511		7.008914	
10	2	12	77.3	1985		8.164563	
11	2	7	62.7	1265		8.865669	
12	3	16	89.4	1231	1707	9.239091	
13	1	14	94.7			9.995224	
14	2	14	91.1	1027		10.851779	
15	1	10	93.2			11.417658	

Bin5 Statistics 22

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	16	73.2			0.628008	1
1	2	10	58.1	1232		2.007701	
2	2	6	97.3	1126		2.904598	
3	1	17	55.7			4.36898	
4	1	8	89			4.808248	
5	1	18	74.1			7.084598	
6	3	11	64.6	1933	1697	8.036234	
7	2	6	96.9	1109		9.407526	
8	2	18	60.5	1314		10.584192	
9	2	14	97.1	1292		11.2055	

Bin5 Statistics 23

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	19	58.4	1472		0.530461	1
1	1	15	55.9			1.133864	
2	1	13	89.1			2.389211	
3	1	8	67.3			3.953246	
4	2	16	86.6	1623		4.469594	
5	2	10	93.8	1677		6.075254	
6	1	14	59.3			7.633215	
7	1	7	100			8.222459	
8	1	9	96.7			9.427872	
9	1	12	73.3			10.775023	
10	3	13	92.8	1370	1570	11.365749	

Bin5 Statistics 24

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	15	56.5	1469		0.536247	1
1	1	8	68.7			1.250342	
2	2	6	80.9	1643		1.63587	
3	1	14	59.2			2.12085	
4	2	6	63.7	1303		3.020493	
5	1	8	67.2			3.191564	
6	3	11	90.7	1924	1668	3.910007	
7	1	19	70.1			4.887703	
8	2	13	99.7	1067		5.61514	
9	3	19	67.4	1069	1667	5.797157	
10	2	8	55	1322		6.871911	
11	2	6	74.7	1570		7.152867	
12	3	10	82.4	1267	1700	8.129496	
13	2	14	58	1114		8.489569	
14	2	5	71.6	1766		9.458729	
15	1	9	83.4			9.720429	
16	1	15	92.5			10.528618	
17	3	19	60.6	1011	1861	11.187553	
18	2	6	87.1	1797		11.751124	

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	16	58.9			0.021817	1
1	2	7	93.7	1816		1.06237	
2	1	18	85			1.211916	
3	2	16	68.1	1992		2.159072	
4	1	7	53.5			2.469666	
5	2	20	87.6	1366		3.400561	
6	2	20	99.1	1134		4.105855	
7	2	19	73.4	1165		4.78712	
8	3	10	77.1	1413	1218	5.311661	
9	1	12	93.4			5.601219	
10	2	13	80.4	1435		6.322066	
11	3	17	59.7	1915	1936	6.630688	
12	2	6	63.1	1131		7.721509	
13	3	12	75.6	1628	1724	8.267866	
14	3	17	60.5	1774	1993	8.921341	
15	2	10	93.4	1326		9.334996	
16	3	7	85.8	1965	1310	10.122359	
17	2	17	65.4	1061		10.633078	
18	1	20	96.1			10.853739	
19	1	16	69.2			11.739014	

Bin5 Statistics 26

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	14	89.8	1334	1792	0.224023	1
1	1	15	53.2			1.053975	
2	3	13	59.5	1862	1379	2.436901	
3	2	16	75.1	1446		3.212662	
4	2	17	72.6	1538		4.24158	
5	2	13	92.2	1944		4.726014	
6	2	6	88.2	1784		6.325972	
7	3	14	91.4	1863	1586	6.497405	
8	3	11	91.5	1826	1615	7.584961	
9	2	8	87.1	1225		8.402793	
10	1	12	90			9.459476	
11	2	17	92.5	1224		10.392559	
12	2	8	50.4	1520		11.218571	

Bin5 Statistics 27

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	17	51.9	1095	1797	0.179415	1
1	2	6	83.5	1924		1.054498	
2	3	18	95.4	1298	1775	2.844474	
3	2	8	90.2	1315		3.958307	
4	3	18	60.3	1413	1788	4.062966	
5	2	18	98.9	1631		5.215464	
6	2	6	88.1	1202		6.348994	
7	3	12	59	1249	1838	7.124363	
8	2	10	83.6	1973		8.364645	
9	1	11	52.9			9.124751	
10	3	7	61.8	1978	1868	10.037177	
11	2	6	76.5	1585		11.42061	

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	17	68.1	1291	1377	0.172229	1
1	3	17	54.8	1376	1246	1.501592	
2	1	19	53.3			2.623018	
3	1	8	90.2			3.916592	
4	3	20	79.9	1096	1684	4.477953	
5	2	14	78.9	1832		5.724875	
6	3	10	59.4	1789	1654	7.396452	
7	2	20	69.7	1816		8.317873	
8	1	19	96.3			8.769541	
9	2	12	53.8	1984		10.122724	
10	3	12	56.5	1254	1046	11.89626	
0	3	17	68.1	1291	1377	0.172229	

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	20	67.6	1116		0.172734	1
1	2	19	82.2	1632		1.222279	
2	2	19	56.9	1455		1.845879	
3	3	14	82.3	1521	1613	2.141884	
4	1	13	82.4			3.124768	
5	2	17	67.6	1619		3.572922	
6	2	12	97.4	1635		4.450021	
7	2	16	50.2	1474		5.062862	
8	3	15	59	1284	1215	5.763304	
9	2	13	62.5	1275		6.462978	
10	2	17	66.4	1732		7.26908	
11	1	16	79.9			7.832543	
12	1	20	64.7			8.534158	
13	1	11	97.5			9.304241	
14	2	14	66.4	1420		9.648812	
15	1	17	51.1			10.279456	
16	2	8	91.7	1783		11.314071	
17	1	8	54.5			11.878076	

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	9	87.5	1877	1067	0.814413	1
1	2	19	56.4	1825		1.43619	
2	3	5	91.6	1509	1948	2.783369	
3	3	15	71.2	1068	1196	4.036217	
4	3	18	55.4	1572	1000	5.090755	
5	1	20	86.7			7.155118	
6	2	10	67.7	1706		7.358617	
7	1	11	54.9			8.765459	
8	3	14	76.5	1387	1887	9.865835	
9	3	10	86.9	1400	1693	11.788715	

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	5550	9	1	333	1	5546.0, 5556.0, 5508.0, 5323.0, 5277.0, 5407.0, 5354.0, 5468.0, 5518.0, 5511.0, 5510.0, 5692.0, 5483.0, 5350.0, 5308.0, 5365.0, 5605.0, 5472.0, 5287.0, 5486.0, 5493.0, 5392.0, 5305.0, 5321.0, 5333.0, 5576.0, 5465.0, 5581.0, 5679.0, 5381.0, 5372.0, 5711.0, 5699.0, 5720.0, 5509.0, 5540.0, 5501.0, 5642.0, 5463.0, 5449.0, 5413.0, 5639.0, 5569.0, 5301.0, 5624.0, 5292.0, 5345.0, 5437.0, 5629.0, 5285.0, 5269.0, 5562.0, 5311.0, 5563.0, 5499.0, 5543.0, 5461.0, 5532.0, 5316.0, 5687.0, 5384.0, 5500.0, 5382.0, 5338.0, 5408.0, 5429.0, 5291.0, 5622.0, 5258.0, 5615.0, 5651.0, 5516.0, 5334.0, 5621.0, 5385.0, 5506.0, 5658.0, 5441.0, 5471.0, 5559.0, 5371.0, 5649.0, 5603.0, 5519.0, 5481.0, 5423.0, 5598.0, 5524.0, 5374.0, 5362.0, 5262.0, 5705.0, 5707.0, 5575.0, 5666.0, 5708.0, 5348.0, 5336.0, 5346.0, 5534.0 (number of hits: 8)
2	5550	9	1	333	1	5456.0, 5578.0, 5660.0, 5265.0, 5363.0, 5710.0, 5353.0, 5442.0, 5421.0, 5306.0, 5688.0, 5383.0, 5665.0, 5307.0, 5483.0, 5407.0, 5393.0, 5582.0, 5327.0, 5589.0, 5663.0, 5469.0, 5457.0, 5700.0, 5720.0, 5706.0, 5617.0, 5658.0, 5461.0, 5653.0, 5532.0, 5338.0, 5719.0, 5392.0, 5632.0, 5448.0, 5712.0, 5444.0, 5579.0, 5266.0, 5289.0, 5402.0, 5375.0, 5463.0, 5650.0, 5361.0, 5721.0, 5278.0, 5591.0, 5346.0, 5685.0, 5722.0, 5305.0, 5546.0, 5388.0, 5447.0, 5379.0, 5630.0, 5264.0, 5454.0, 5356.0, 5536.0, 5707.0, 5427.0, 5318.0, 5652.0, 5273.0, 5279.0, 5541.0, 5610.0, 5704.0, 5573.0, 5261.0, 5670.0, 5571.0, 5450.0, 5487.0, 5667.0, 5672.0, 5358.0, 5344.0, 5502.0, 5328.0, 5420.0, 5476.0, 5671.0, 5678.0, 5272.0, 5443.0, 5252.0, 5257.0, 5677.0, 5403.0, 5467.0, 5717.0, 5635.0, 5624.0, 5299.0, 5620.0, 5495.0 (number of hits: 5)
3	5550	9	1	333	1	5660.0, 5511.0, 5686.0, 5685.0, 5371.0, 5638.0, 5422.0, 5544.0, 5333.0, 5719.0, 5603.0, 5397.0, 5430.0, 5386.0, 5469.0, 5604.0, 5330.0, 5680.0, 5509.0, 5699.0, 5688.0, 5714.0, 5437.0, 5529.0, 5602.0, 5357.0, 5487.0, 5571.0, 5596.0, 5452.0, 5521.0, 5408.0, 5466.0, 5533.0, 5381.0, 5348.0, 5619.0, 5492.0, 5449.0, 5393.0, 5711.0, 5310.0, 5721.0, 5267.0, 5480.0, 5442.0, 5368.0, 5662.0, 5425.0, 5421.0, 5489.0, 5468.0, 5391.0, 5383.0, 5265.0, 5277.0, 5273.0, 5696.0, 5590.0, 5554.0

						5718.0, 5652.0, 5629.0, 5524.0, 5297.0, 5573.0, 5724.0, 5646.0, 5713.0, 5605.0, 5450.0, 5429.0, 5494.0, 5531.0, 5401.0, 5287.0, 5362.0, 5689.0, 5485.0, 5695.0, 5498.0, 5640.0, 5723.0, 5328.0, 5420.0, 5370.0, 5356.0, 5627.0, 5643.0, 5465.0, 5535.0, 5642.0, 5460.0, 5294.0, 5587.0, 5495.0, 5367.0, 5499.0, 5517.0, 5579.0 (number of hits: 4)
4	5550	9	1	333	1	5636.0, 5332.0, 5335.0, 5488.0, 5622.0, 5577.0, 5323.0, 5565.0, 5435.0, 5532.0, 5358.0, 5368.0, 5389.0, 5653.0, 5595.0, 5441.0, 5464.0, 5554.0, 5410.0, 5494.0, 5607.0, 5423.0, 5711.0, 5471.0, 5329.0, 5531.0, 5393.0, 5710.0, 5274.0, 5365.0, 5549.0, 5461.0, 5378.0, 5439.0, 5303.0, 5648.0, 5394.0, 5606.0, 5295.0, 5692.0, 5682.0, 5331.0, 5263.0, 5430.0, 5714.0, 5608.0, 5687.0, 5469.0, 5361.0, 5574.0, 5482.0, 5392.0, 5314.0, 5584.0, 5309.0, 5523.0, 5604.0, 5659.0, 5333.0, 5390.0, 5527.0, 5459.0, 5357.0, 5609.0, 5722.0, 5538.0, 5432.0, 5686.0, 5299.0, 5400.0, 5259.0, 5670.0, 5347.0, 5585.0, 5300.0, 5344.0, 5575.0, 5404.0, 5444.0, 5685.0, 5569.0, 5666.0, 5257.0, 5688.0, 5543.0, 5644.0, 5723.0, 5450.0, 5524.0, 5668.0, 5512.0, 5436.0, 5654.0, 5720.0, 5665.0, 5718.0, 5363.0, 5537.0, 5630.0, 5525.0 (number of hits: 6)
5	5550	9	1	333	1	5613.0, 5371.0, 5707.0, 5452.0, 5553.0, 5593.0, 5494.0, 5503.0, 5369.0, 5476.0, 5672.0, 5661.0, 5259.0, 5643.0, 5590.0, 5500.0, 5600.0, 5419.0, 5466.0, 5625.0, 5620.0, 5429.0, 5336.0, 5560.0, 5267.0, 5623.0, 5385.0, 5496.0, 5323.0, 5709.0, 5608.0, 5677.0, 5511.0, 5345.0, 5393.0, 5617.0, 5451.0, 5526.0, 5347.0, 5432.0, 5655.0, 5572.0, 5561.0, 5460.0, 5535.0, 5703.0, 5439.0, 5668.0, 5504.0, 5434.0, 5597.0, 5578.0, 5563.0, 5592.0, 5370.0, 5557.0, 5459.0, 5271.0, 5277.0, 5582.0, 5318.0, 5397.0, 5492.0, 5357.0, 5499.0, 5567.0, 5391.0, 5339.0, 5639.0, 5319.0, 5313.0, 5646.0, 5682.0, 5602.0, 5422.0, 5666.0, 5386.0, 5520.0, 5544.0, 5594.0, 5263.0, 5352.0, 5482.0, 5546.0, 5446.0, 5579.0, 5276.0, 5607.0, 5547.0, 5427.0, 5514.0, 5531.0, 5543.0, 5438.0, 5724.0, 5320.0, 5310.0, 5450.0, 5603.0, 5425.0 (number of hits: 2)
6	5550	9	1	333	1	5332.0, 5577.0, 5705.0, 5299.0, 5396.0, 5631.0, 5335.0, 5307.0, 5414.0, 5271.0, 5503.0, 5437.0, 5594.0, 5708.0, 5539.0, 5672.0, 5274.0, 5252.0, 5342.0, 5394.0, 5693.0, 5558.0, 5638.0, 5566.0, 5682.0, 5387.0, 5421.0, 5374.0, 5281.0, 5371.0, 5542.0, 5509.0, 5552.0, 5659.0, 5411.0, 5660.0, 5405.0, 5320.0, 5720.0, 5624.0,

						5358.0, 5294.0, 5529.0, 5630.0, 5533.0, 5352.0, 5639.0, 5382.0, 5516.0, 5363.0, 5264.0, 5523.0, 5574.0, 5537.0, 5670.0, 5263.0, 5302.0, 5304.0, 5432.0, 5697.0, 5345.0, 5420.0, 5703.0, 5700.0, 5362.0, 5256.0, 5436.0, 5310.0, 5457.0, 5560.0, 5678.0, 5686.0, 5319.0, 5598.0, 5603.0, 5455.0, 5649.0, 5500.0, 5528.0, 5680.0, 5443.0, 5522.0, 5526.0, 5487.0, 5712.0, 5400.0, 5456.0, 5346.0, 5702.0, 5327.0, 5284.0, 5283.0, 5532.0, 5545.0, 5546.0, 5286.0, 5514.0, 5454.0, 5635.0, 5315.0 (number of hits: 7)
7	5550	9	1	333	1	5720.0, 5498.0, 5364.0, 5661.0, 5355.0, 5304.0, 5297.0, 5689.0, 5382.0, 5629.0, 5259.0, 5326.0, 5626.0, 5567.0, 5479.0, 5272.0, 5354.0, 5709.0, 5495.0, 5273.0, 5305.0, 5509.0, 5714.0, 5473.0, 5280.0, 5592.0, 5572.0, 5612.0, 5388.0, 5266.0, 5346.0, 5697.0, 5648.0, 5662.0, 5420.0, 5699.0, 5693.0, 5459.0, 5361.0, 5417.0, 5435.0, 5512.0, 5277.0, 5343.0, 5658.0, 5493.0, 5408.0, 5402.0, 5454.0, 5294.0, 5268.0, 5335.0, 5298.0, 5545.0, 5482.0, 5251.0, 5647.0, 5718.0, 5313.0, 5284.0, 5271.0, 5723.0, 5624.0, 5430.0, 5700.0, 5553.0, 5436.0, 5678.0, 5589.0, 5636.0, 5320.0, 5283.0, 5255.0, 5644.0, 5538.0, 5611.0, 5490.0, 5528.0, 5441.0, 5542.0, 5429.0, 5555.0, 5418.0, 5451.0, 5721.0, 5460.0, 5562.0, 5584.0, 5360.0, 5504.0, 5523.0, 5415.0, 5606.0, 5376.0, 5409.0, 5450.0, 5605.0, 5264.0, 5478.0, 5288.0 (number of hits: 7)
8	5550	9	1	333	1	5281.0, 5256.0, 5264.0, 5496.0, 5411.0, 5514.0, 5341.0, 5640.0, 5600.0, 5522.0, 5441.0, 5506.0, 5412.0, 5414.0, 5520.0, 5319.0, 5466.0, 5645.0, 5499.0, 5279.0, 5648.0, 5386.0, 5437.0, 5300.0, 5531.0, 5491.0, 5597.0, 5439.0, 5383.0, 5474.0, 5333.0, 5583.0, 5418.0, 5252.0, 5652.0, 5467.0, 5452.0, 5593.0, 5277.0, 5318.0, 5580.0, 5669.0, 5724.0, 5575.0, 5537.0, 5562.0, 5579.0, 5588.0, 5619.0, 5508.0, 5650.0, 5347.0, 5261.0, 5379.0, 5662.0, 5718.0, 5487.0, 5377.0, 5574.0, 5366.0, 5405.0, 5425.0, 5541.0, 5481.0, 5687.0, 5378.0, 5642.0, 5363.0, 5591.0, 5313.0, 5257.0, 5601.0, 5397.0, 5489.0, 5482.0, 5673.0, 5658.0, 5422.0, 5564.0, 5476.0, 5317.0, 5705.0, 5462.0, 5479.0, 5699.0, 5351.0, 5460.0, 5654.0, 5561.0, 5710.0, 5431.0, 5644.0, 5708.0, 5293.0, 5367.0, 5556.0, 5636.0, 5346.0, 5307.0, 5543.0 (number of hits: 4)
9	5550	9	1	333	1	5686.0, 5634.0, 5626.0, 5341.0, 5599.0, 5558.0, 5262.0, 5252.0, 5638.0, 5361.0, 5336.0, 5645.0, 5395.0, 5666.0, 5648.0, 5657.0, 5425.0, 5702.0, 5610.0, 5452.0,

						5537.0, 5662.0, 5652.0, 5486.0, 5478.0, 5412.0, 5415.0, 5534.0, 5330.0, 5344.0, 5572.0, 5451.0, 5681.0, 5684.0, 5633.0, 5442.0, 5421.0, 5711.0, 5334.0, 5335.0, 5381.0, 5678.0, 5538.0, 5517.0, 5460.0, 5723.0, 5426.0, 5716.0, 5401.0, 5692.0, 5275.0, 5646.0, 5668.0, 5564.0, 5300.0, 5659.0, 5435.0, 5696.0, 5434.0, 5423.0, 5307.0, 5519.0, 5551.0, 5698.0, 5660.0, 5542.0, 5641.0, 5462.0, 5305.0, 5647.0, 5525.0, 5569.0, 5470.0, 5504.0, 5592.0, 5475.0, 5502.0, 5556.0, 5590.0, 5510.0, 5612.0, 5447.0, 5653.0, 5430.0, 5614.0, 5533.0, 5717.0, 5602.0, 5560.0, 5405.0, 5380.0, 5708.0, 5306.0, 5547.0, 5596.0, 5384.0, 5301.0, 5268.0, 5663.0, 5670.0 (number of hits: 5)
10	5550	9	1	333	1	5271.0, 5257.0, 5594.0, 5623.0, 5719.0, 5454.0, 5450.0, 5398.0, 5518.0, 5662.0, 5609.0, 5692.0, 5626.0, 5678.0, 5695.0, 5562.0, 5521.0, 5480.0, 5438.0, 5372.0, 5322.0, 5583.0, 5288.0, 5606.0, 5410.0, 5298.0, 5453.0, 5507.0, 5722.0, 5584.0, 5336.0, 5682.0, 5413.0, 5628.0, 5598.0, 5573.0, 5575.0, 5493.0, 5607.0, 5691.0, 5367.0, 5350.0, 5392.0, 5474.0, 5613.0, 5333.0, 5426.0, 5657.0, 5331.0, 5563.0, 5263.0, 5658.0, 5379.0, 5408.0, 5390.0, 5387.0, 5697.0, 5477.0, 5702.0, 5577.0, 5268.0, 5591.0, 5311.0, 5447.0, 5301.0, 5615.0, 5378.0, 5340.0, 5715.0, 5335.0, 5306.0, 5558.0, 5407.0, 5544.0, 5668.0, 5462.0, 5492.0, 5659.0, 5475.0, 5278.0, 5487.0, 5622.0, 5291.0, 5656.0, 5338.0, 5443.0, 5600.0, 5434.0, 5264.0, 5465.0, 5597.0, 5406.0, 5685.0, 5279.0, 5545.0, 5296.0, 5489.0, 5488.0, 5332.0, 5596.0 (number of hits: 7)
11	5550	9	1	333	1	5282.0, 5475.0, 5602.0, 5295.0, 5527.0, 5586.0, 5440.0, 5651.0, 5515.0, 5574.0, 5468.0, 5338.0, 5523.0, 5439.0, 5658.0, 5351.0, 5696.0, 5603.0, 5512.0, 5378.0, 5298.0, 5580.0, 5670.0, 5467.0, 5447.0, 5573.0, 5300.0, 5652.0, 5606.0, 5671.0, 5718.0, 5642.0, 5377.0, 5708.0, 5400.0, 5464.0, 5704.0, 5344.0, 5630.0, 5488.0, 5589.0, 5568.0, 5267.0, 5663.0, 5330.0, 5478.0, 5644.0, 5709.0, 5411.0, 5345.0, 5317.0, 5548.0, 5481.0, 5280.0, 5450.0, 5314.0, 5712.0, 5433.0, 5410.0, 5458.0, 5531.0, 5635.0, 5421.0, 5405.0, 5366.0, 5596.0, 5265.0, 5381.0, 5465.0, 5524.0, 5331.0, 5427.0, 5570.0, 5456.0, 5417.0, 5535.0, 5576.0, 5605.0, 5526.0, 5502.0, 5636.0, 5666.0, 5452.0, 5513.0, 5553.0, 5545.0, 5621.0, 5707.0, 5563.0, 5539.0, 5516.0, 5521.0, 5301.0, 5275.0, 5562.0, 5479.0, 5393.0, 5374.0, 5633.0, 5538.0 (number of hits: 5)

12	5550	9	1	333	1	5441.0, 5452.0, 5571.0, 5595.0, 5714.0, 5252.0, 5639.0, 5359.0, 5277.0, 5404.0, 5674.0, 5368.0, 5272.0, 5471.0, 5256.0, 5661.0, 5566.0, 5383.0, 5512.0, 5483.0, 5500.0, 5539.0, 5333.0, 5406.0, 5305.0, 5388.0, 5407.0, 5586.0, 5260.0, 5390.0, 5650.0, 5703.0, 5560.0, 5460.0, 5514.0, 5496.0, 5599.0, 5693.0, 5297.0, 5491.0, 5351.0, 5355.0, 5656.0, 5587.0, 5438.0, 5341.0, 5522.0, 5289.0, 5281.0, 5653.0, 5470.0, 5679.0, 5495.0, 5671.0, 5320.0, 5719.0, 5667.0, 5494.0, 5675.0, 5658.0, 5449.0, 5400.0, 5562.0, 5536.0, 5426.0, 5439.0, 5474.0, 5555.0, 5580.0, 5646.0, 5582.0, 5391.0, 5622.0, 5685.0, 5466.0, 5503.0, 5433.0, 5576.0, 5516.0, 5294.0, 5428.0, 5515.0, 5652.0, 5266.0, 5292.0, 5490.0, 5717.0, 5551.0, 5472.0, 5344.0, 5392.0, 5338.0, 5309.0, 5358.0, 5528.0, 5431.0, 5697.0, 5619.0, 5442.0, 5569.0 (number of hits: 6)
13	5550	9	1	333	1	5478.0, 5292.0, 5602.0, 5350.0, 5634.0, 5355.0, 5382.0, 5546.0, 5423.0, 5321.0, 5345.0, 5290.0, 5420.0, 5255.0, 5440.0, 5515.0, 5455.0, 5476.0, 5450.0, 5314.0, 5258.0, 5603.0, 5527.0, 5369.0, 5615.0, 5614.0, 5396.0, 5689.0, 5460.0, 5358.0, 5563.0, 5329.0, 5552.0, 5408.0, 5338.0, 5504.0, 5580.0, 5386.0, 5284.0, 5406.0, 5544.0, 5402.0, 5320.0, 5605.0, 5437.0, 5657.0, 5486.0, 5404.0, 5446.0, 5700.0, 5644.0, 5592.0, 5459.0, 5428.0, 5496.0, 5346.0, 5662.0, 5257.0, 5337.0, 5692.0, 5352.0, 5665.0, 5668.0, 5660.0, 5621.0, 5278.0, 5645.0, 5677.0, 5690.0, 5711.0, 5618.0, 5393.0, 5576.0, 5313.0, 5368.0, 5536.0, 5612.0, 5516.0, 5330.0, 5298.0, 5410.0, 5567.0, 5433.0, 5322.0, 5606.0, 5691.0, 5316.0, 5494.0, 5488.0, 5617.0, 5549.0, 5571.0, 5505.0, 5541.0, 5537.0, 5269.0, 5299.0, 5608.0, 5579.0, 5304.0 (number of hits: 7)
14	5550	9	1	333	1	5676.0, 5597.0, 5313.0, 5375.0, 5690.0, 5411.0, 5642.0, 5306.0, 5578.0, 5677.0, 5593.0, 5321.0, 5351.0, 5307.0, 5701.0, 5261.0, 5550.0, 5688.0, 5719.0, 5324.0, 5426.0, 5529.0, 5301.0, 5373.0, 5276.0, 5549.0, 5588.0, 5681.0, 5449.0, 5581.0, 5489.0, 5560.0, 5359.0, 5592.0, 5696.0, 5396.0, 5275.0, 5283.0, 5498.0, 5482.0, 5278.0, 5665.0, 5274.0, 5675.0, 5601.0, 5379.0, 5291.0, 5655.0, 5638.0, 5298.0, 5422.0, 5334.0, 5434.0, 5421.0, 5540.0, 5525.0, 5381.0, 5491.0, 5617.0, 5474.0, 5490.0, 5596.0, 5361.0, 5712.0, 5711.0, 5289.0, 5633.0, 5317.0, 5281.0, 5657.0, 5666.0, 5706.0, 5433.0, 5724.0, 5444.0, 5608.0, 5271.0, 5693.0, 5319.0, 5504.0, 5662.0, 5299.0, 5458.0, 5416.0, 5260.0,

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15	5550	9	1	333	1	5524.0, 5555.0, 5444.0, 5277.0, 5656.0, 5572.0, 5488.0, 5433.0, 5252.0, 5666.0, 5624.0, 5448.0, 5466.0, 5702.0, 5333.0, 5326.0, 5303.0, 5636.0, 5563.0, 5447.0, 5261.0, 5357.0, 5672.0, 5486.0, 5254.0, 5696.0, 5660.0, 5616.0, 5359.0, 5557.0, 5430.0, 5719.0, 5255.0, 5397.0, 5603.0, 5363.0, 5667.0, 5678.0, 5677.0, 5367.0, 5422.0, 5652.0, 5508.0, 5379.0, 5260.0, 5618.0, 5567.0, 5690.0, 5351.0, 5600.0, 5566.0, 5638.0, 5671.0, 5275.0, 5578.0, 5282.0, 5419.0, 5575.0, 5515.0, 5704.0, 5654.0, 5259.0, 5289.0, 5650.0, 5599.0, 5311.0, 5393.0, 5606.0, 5399.0, 5420.0, 5313.0, 5437.0, 5506.0, 5612.0, 5594.0, 5395.0, 5457.0, 5648.0, 5355.0, 5662.0, 5668.0, 5647.0, 5543.0, 5378.0, 5340.0, 5584.0, 5675.0, 5354.0, 5342.0, 5346.0, 5635.0, 5459.0, 5709.0, 5483.0, 5319.0, 5360.0, 5292.0, 5361.0, 5478.0, 5556.0 (number of hits: 5)
16	5550	9	1	333	1	5332.0, 5421.0, 5266.0, 5476.0, 5499.0, 5676.0, 5343.0, 5397.0, 5709.0, 5582.0, 5453.0, 5250.0, 5317.0, 5667.0, 5672.0, 5595.0, 5528.0, 5708.0, 5355.0, 5529.0, 5712.0, 5651.0, 5722.0, 5494.0, 5452.0, 5454.0, 5707.0, 5515.0, 5548.0, 5668.0, 5357.0, 5567.0, 5658.0, 5285.0, 5596.0, 5496.0, 5344.0, 5498.0, 5401.0, 5637.0, 5666.0, 5569.0, 5296.0, 5588.0, 5377.0, 5564.0, 5331.0, 5493.0, 5346.0, 5412.0, 5402.0, 5615.0, 5557.0, 5360.0, 5384.0, 5376.0, 5514.0, 5429.0, 5579.0, 5387.0, 5374.0, 5305.0, 5302.0, 5460.0, 5606.0, 5334.0, 5323.0, 5704.0, 5284.0, 5336.0, 5371.0, 5552.0, 5342.0, 5541.0, 5398.0, 5321.0, 5504.0, 5475.0, 5392.0, 5664.0, 5723.0, 5524.0, 5603.0, 5586.0, 5583.0, 5566.0, 5684.0, 5602.0, 5409.0, 5618.0, 5487.0, 5319.0, 5536.0, 5683.0, 5292.0, 5345.0, 5544.0, 5263.0, 5388.0, 5682.0 (number of hits: 5)
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21	5550	9	1	333	1	5546.0, 5403.0, 5628.0, 5262.0, 5610.0, 5551.0, 5664.0, 5399.0, 5542.0, 5280.0, 5468.0, 5718.0, 5462.0, 5598.0, 5281.0, 5342.0, 5631.0, 5679.0, 5579.0, 5289.0, 5287.0, 5414.0, 5697.0, 5554.0, 5321.0, 5511.0, 5686.0, 5674.0, 5273.0, 5721.0, 5469.0, 5671.0, 5497.0, 5377.0, 5689.0, 5536.0, 5341.0, 5564.0, 5597.0, 5486.0, 5650.0, 5258.0, 5657.0, 5376.0, 5310.0, 5636.0, 5308.0, 5645.0, 5634.0, 5477.0, 5256.0, 5690.0, 5384.0, 5425.0, 5347.0, 5429.0, 5568.0, 5460.0, 5264.0, 5456.0, 5670.0, 5576.0, 5707.0, 5678.0, 5638.0, 5466.0, 5415.0, 5274.0, 5457.0, 5424.0, 5443.0, 5499.0, 5710.0, 5474.0, 5283.0, 5571.0, 5492.0, 5584.0, 5270.0, 5714.0, 5313.0, 5534.0, 5503.0, 5451.0, 5713.0, 5307.0, 5627.0, 5318.0, 5586.0, 5421.0, 5478.0, 5436.0, 5420.0, 5411.0, 5367.0, 5426.0, 5463.0, 5259.0, 5379.0, 5708.0 (number of hits: 6)
22	5550	9	1	333	1	5526.0, 5346.0, 5603.0, 5648.0, 5324.0, 5655.0, 5450.0, 5682.0, 5369.0, 5575.0, 5511.0, 5585.0, 5395.0, 5660.0, 5286.0, 5676.0, 5382.0, 5632.0, 5619.0, 5371.0, 5553.0, 5252.0, 5597.0, 5455.0, 5305.0, 5389.0, 5430.0, 5721.0, 5571.0, 5471.0, 5540.0, 5364.0, 5517.0, 5668.0, 5684.0, 5310.0, 5658.0, 5290.0, 5590.0, 5627.0, 5551.0, 5390.0, 5679.0, 5642.0, 5423.0, 5443.0, 5283.0, 5478.0, 5329.0, 5475.0, 5530.0, 5546.0, 5493.0, 5405.0, 5604.0, 5582.0, 5695.0, 5309.0, 5327.0, 5274.0, 5694.0, 5566.0, 5480.0, 5273.0, 5691.0, 5634.0, 5696.0, 5340.0, 5625.0, 5356.0, 5317.0, 5519.0, 5578.0, 5459.0, 5587.0, 5296.0, 5437.0, 5500.0, 5344.0, 5492.0, 5332.0, 5675.0, 5533.0, 5516.0, 5487.0, 5599.0, 5497.0, 5269.0, 5589.0, 5512.0, 5489.0, 5614.0, 5383.0, 5631.0, 5681.0, 5416.0, 5720.0, 5704.0, 5653.0, 5703.0 (number of hits: 6)
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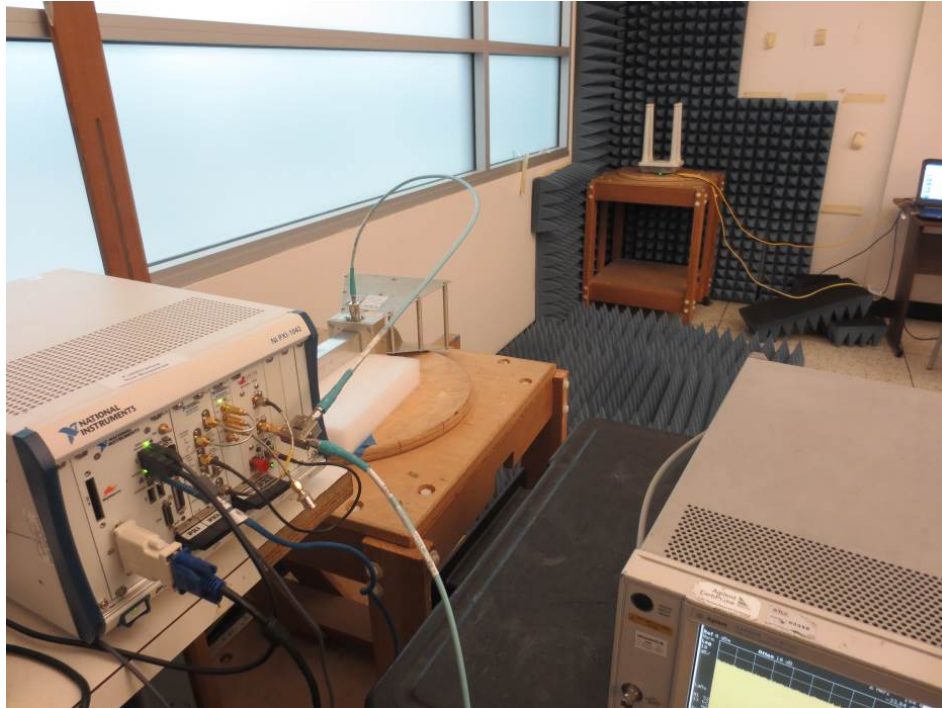
						5321.0, 5318.0, 5433.0, 5692.0, 5605.0, 5350.0, 5431.0, 5440.0, 5372.0, 5495.0, 5602.0, 5363.0, 5382.0, 5539.0, 5421.0, 5598.0, 5378.0, 5420.0, 5537.0, 5307.0, 5423.0, 5661.0, 5685.0, 5595.0, 5258.0, 5345.0, 5416.0, 5629.0, 5278.0, 5702.0, 5316.0, 5663.0, 5471.0, 5285.0, 5640.0, 5254.0, 5600.0, 5306.0, 5494.0, 5628.0, 5504.0, 5261.0, 5472.0, 5566.0, 5329.0, 5419.0, 5338.0, 5620.0, 5269.0, 5342.0, 5604.0, 5703.0, 5707.0, 5687.0, 5293.0, 5701.0, 5553.0, 5633.0, 5410.0, 5611.0, 5641.0, 5688.0, 5282.0, 5614.0, 5331.0, 5442.0, 5473.0, 5279.0, 5424.0, 5266.0, 5694.0, 5572.0, 5311.0, 5691.0, 5658.0 (number of hits: 5)
24	5550	9	1	333	1	5531.0, 5646.0, 5276.0, 5656.0, 5644.0, 5353.0, 5572.0, 5392.0, 5555.0, 5451.0, 5477.0, 5719.0, 5490.0, 5318.0, 5418.0, 5535.0, 5550.0, 5618.0, 5350.0, 5653.0, 5593.0, 5684.0, 5356.0, 5514.0, 5256.0, 5450.0, 5338.0, 5657.0, 5665.0, 5251.0, 5448.0, 5349.0, 5672.0, 5346.0, 5627.0, 5405.0, 5552.0, 5708.0, 5304.0, 5679.0, 5263.0, 5387.0, 5601.0, 5637.0, 5534.0, 5551.0, 5476.0, 5559.0, 5556.0, 5502.0, 5348.0, 5536.0, 5439.0, 5500.0, 5280.0, 5517.0, 5491.0, 5442.0, 5649.0, 5312.0, 5284.0, 5370.0, 5716.0, 5527.0, 5645.0, 5671.0, 5697.0, 5667.0, 5260.0, 5638.0, 5718.0, 5416.0, 5606.0, 5272.0, 5643.0, 5360.0, 5361.0, 5506.0, 5325.0, 5315.0, 5381.0, 5368.0, 5682.0, 5267.0, 5647.0, 5359.0, 5278.0, 5433.0, 5650.0, 5621.0, 5588.0, 5372.0, 5407.0, 5522.0, 5704.0, 5347.0, 5558.0, 5429.0, 5710.0, 5282.0 (number of hits: 2)
25	5550	9	1	333	1	5600.0, 5552.0, 5723.0, 5343.0, 5663.0, 5634.0, 5597.0, 5316.0, 5707.0, 5331.0, 5718.0, 5366.0, 5680.0, 5656.0, 5385.0, 5697.0, 5683.0, 5570.0, 5268.0, 5264.0, 5267.0, 5466.0, 5401.0, 5290.0, 5333.0, 5548.0, 5559.0, 5575.0, 5659.0, 5721.0, 5377.0, 5388.0, 5334.0, 5300.0, 5648.0, 5462.0, 5276.0, 5664.0, 5269.0, 5673.0, 5639.0, 5541.0, 5368.0, 5457.0, 5309.0, 5311.0, 5514.0, 5487.0, 5719.0, 5601.0, 5403.0, 5271.0, 5441.0, 5502.0, 5571.0, 5632.0, 5604.0, 5540.0, 5496.0, 5292.0, 5361.0, 5420.0, 5451.0, 5360.0, 5325.0, 5574.0, 5562.0, 5494.0, 5417.0, 5615.0, 5504.0, 5624.0, 5372.0, 5655.0, 5342.0, 5468.0, 5513.0, 5478.0, 5425.0, 5312.0, 5629.0, 5337.0, 5594.0, 5322.0, 5498.0, 5459.0, 5296.0, 5688.0, 5389.0, 5508.0, 5580.0, 5524.0, 5534.0, 5460.0, 5430.0, 5330.0, 5636.0, 5667.0, 5418.0, 5407.0 (number of hits: 7)
26	5550	9	1	333	1	5598.0, 5494.0, 5661.0, 5376.0, 5656.0,

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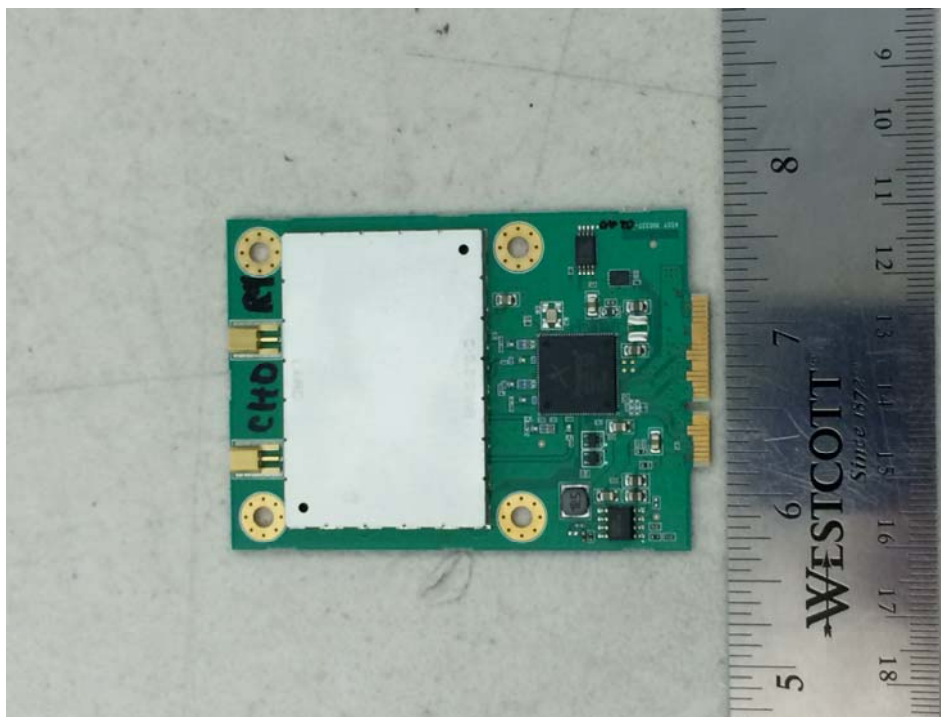
10 Exhibit A – Test Setup Photographs

10.1 DFS Test Setup View

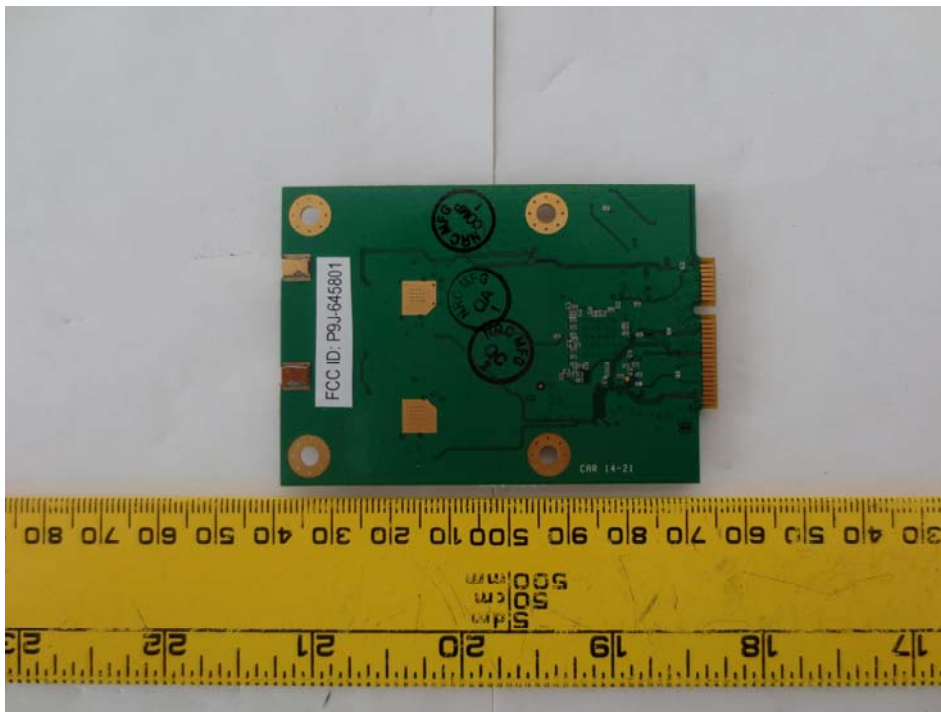


11 Exhibit B – EUT Photographs

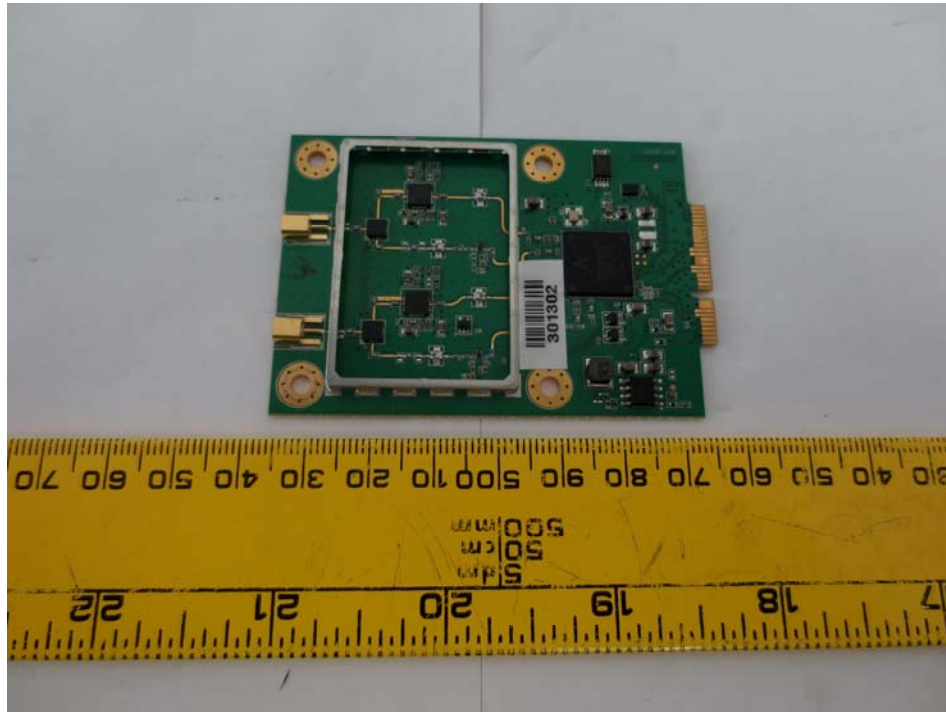
11.1 EUT Top View



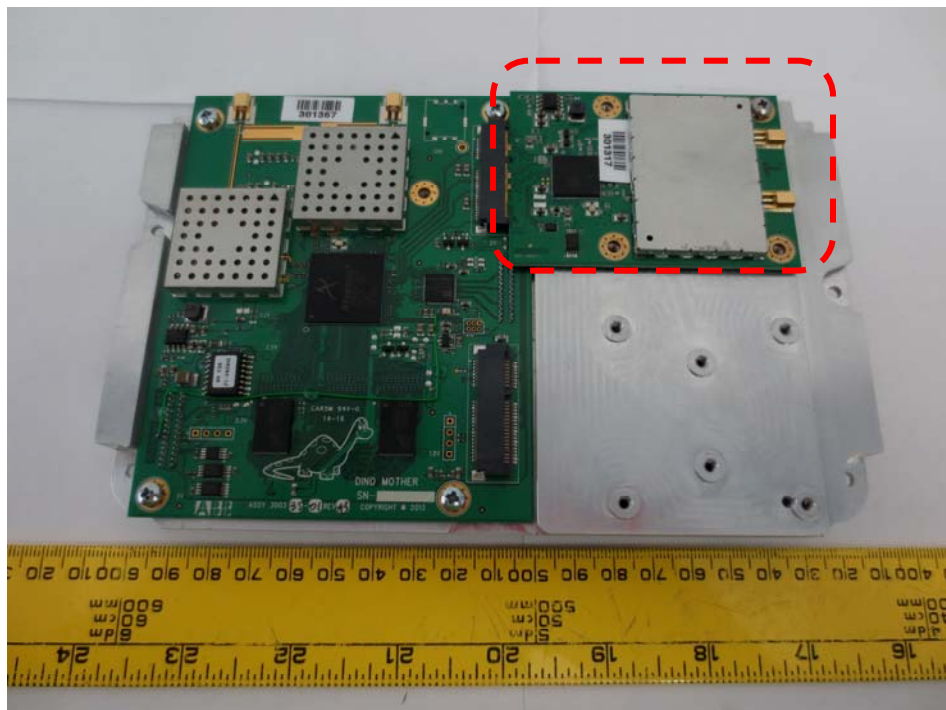
11.2 EUT Bottom View



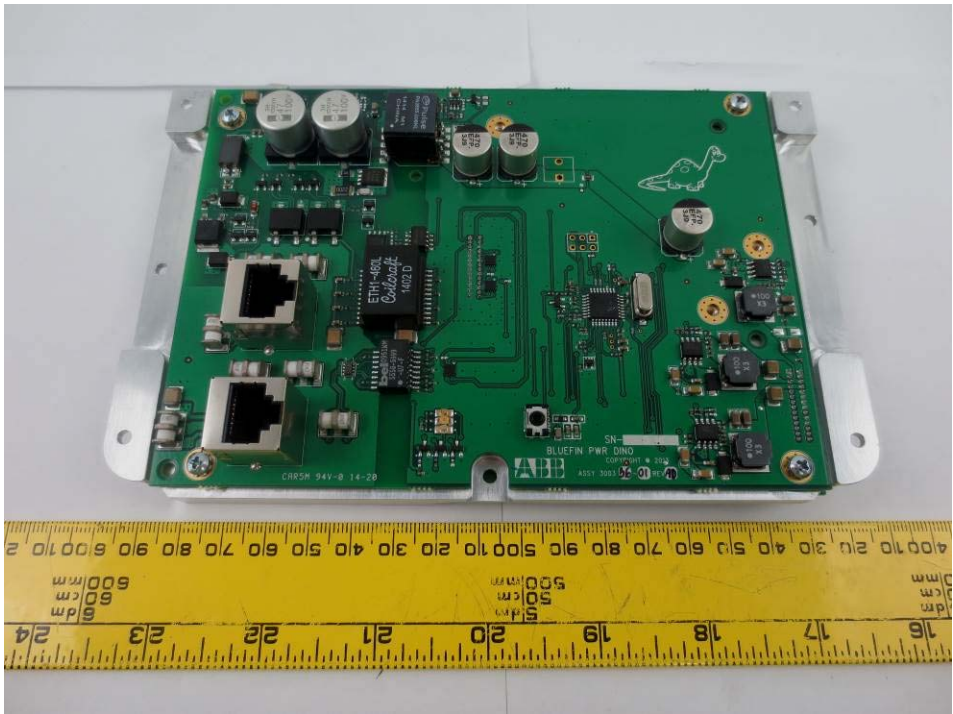
11.3 EUT Without Shielding View



11.4 EUT on Supporting Board Top View



11.5 Supporting Board Bottom View



11.6 POE Adaptor



11.7 Antenna View



11.8 Host – Front View



11.9 Host – Bottom Side View



11.10 Host – Open View



--- END OF REPORT ---