

DYNAMIC FREQUENCY SELECTION



TEST REPORT

For

Ruckus Wireless, Inc.

880 West Maude Ave., Suite 101
 Sunnyvale, CA 94085, USA

Model: VF7811 & VF7111
FCC ID: S9GVF7XX1
IC: 5912A-VF7XX1

Report Type: <input checked="" type="checkbox"/> Original Report		Equipment Type: Wi-Fi Access Point And Client	
Test Engineer:	Victor Zhang		
Report No.:	R0803191-DFS-FCC		
Report Date:	2008-06-04		
Reviewed By:	Hans Mellberg		
	VP of Engineering		
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 * This report may contain data that are not covered by the NVLAP accreditation and are marked with an asterisk "*" Rev. 2

Document History

Revision	Date	Comment
Rev.0	2008-06-09	Original

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ATTESSTATION OF TEST RESULTS

Manufacturer:	Ruckus Wireless, Inc 880 West Maude Ave., Suite 101 Sunnyvale, CA 94085, USA
EUT:	Wi-Fi Access Point & Client
Model:	VF7811 & VF7111
Test date:	May 27 th - June 3 rd , 2008

Standard(s)	Results
FCC PART15.407 (DSF Requirement) FCC 06-96	Compliance

Bay Area Compliance Laboratories Corp. (BACL) tested the equipment mentioned in accordance with the CFR47 §15.407 (h) Dynamic Frequency Selection (DFS) requirements. Test result indicated that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: 1) Test results apply to the tested sample.

2) Details of test methods used have been recorded and kept on file by BACL.

3) The document may only be updated by BACL personnel, any changes will be noted in the document history section in this report.

Tested By:



Victor Zhang
Test Engineer

Approved By:



Hans Mellberg
VPof Engineering

GENERAL INFORMATION

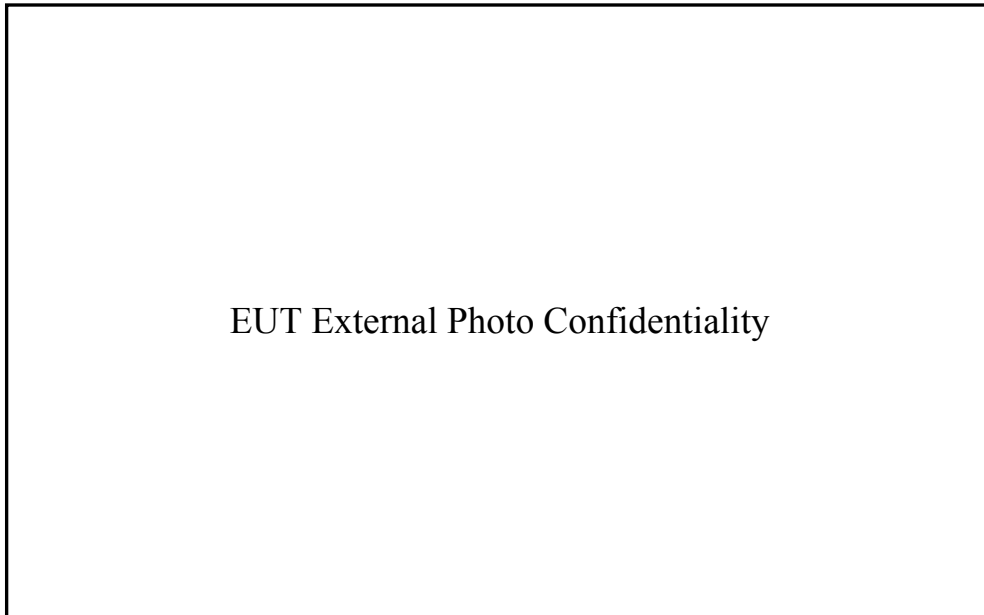
Product Description for Equipment under Test (EUT)

The Ruckus Wireless, Inc. product, VF7811 & VF7111, VF7811 as referred to in this report is the Access Point and Ethernet to Wireless Adapter (802.11 a/n modes) which operates in 5150-5250 MHz , 5250-5350 MHz, 5470-5725 MHz and 5725-5850 MHz. VF7111 as referred to in this report is the Client (802.11 a/n modes) which operates in 5150-5250 MHz , 5250-5350 MHz, 5470-5725 MHz and 5725-5850 MHz.

The EUT has measured approximately 140 mm L x 120 mm W x 80 mm H

** The test data gathered are from typical production sample provided by the manufacturer.*

EUT Photo:



Additional photos please refer to Appendix B

Test Methodology

FCC CFR 47 Part2, Part15.407 (h)

FCC 06-96 Appendix “COMPLIANCE MEASUREMENT PROCEDURES FOR UNLICENSEDNATIONAL INFORMATION INFRASTRUCTURE DEVICES OPERATING IN THE 5250-5350 MHz AND 5470-5725 MHz BANDS INCORPORATING DYNAMIC FREQUENCY SELECTIO”

Test Facility

The Test site used by BACL Corp. to collect radiated and conducted emissions measurement data is located at it’s facility in 1274 Anvilwood Avenue, Sunnyvale, California, USA.

Test site at BACL 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 has 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 facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2003.

The Federal Communications Commission and Voluntary Control Council for Interference have the reports on file and is listed under FCC registration number: 90464 and VCCI Registration No.: C-1298 and R-1234. 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 is a National Institute of Standards and Technology (NIST) accredited laboratory, under the National Voluntary Laboratory Accredited Program (**NVLAP Lab Code: 200167-0**).



The current scope of accreditations can be found at <http://ts.nist.gov/ts/htdocs/210/214/scopes/2001670.htm>

APPLICABLE STANDARDS

DFS Requirement

FCC CFR47 §15.407 (h) and FCC 06-96 Appendix.

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

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

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode		
	Master	Client (Without DFS)	Client (With DFS)
DFS Detection Threshold	Yes	Not Required	Yes
Channel Closing Transmission Time	Yes	Yes	Yes
Channel Move Time	Yes	Yes	Yes

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

Maximum Transmit Power	Value (See Notes 1 and 2)
≥ 200 milliwatt	-64 dBm
< 200 milliwatt	-62 dBm
<p>Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.</p> <p>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.</p>	

Table 4: DFS Response requirement values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 80% of the UNII 99% transmission power bandwidth. See Note 3.
<p>Note 1: The instant that the <i>Channel Move Time</i> and the <i>Channel Closing Transmission Time</i> begins is as follows:</p> <ul style="list-style-type: none"> • 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>. <p>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.</p> <p>Note 3: During the <i>U-NII Detection Bandwidth</i> detection test, radar type 1 is used and for each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.</p>	

Table 5: Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (Microseconds)	PRI (Microseconds)	Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
1	1	1428	18	60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120

Table 6: Long Pulse Radar Test Signal

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

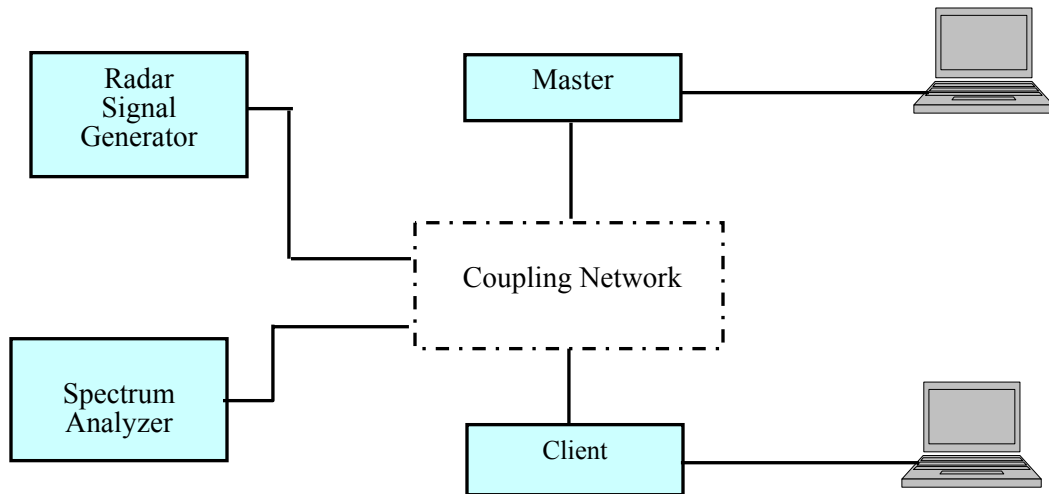
Table 7: Frequency Hopping Radar Test Signal

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

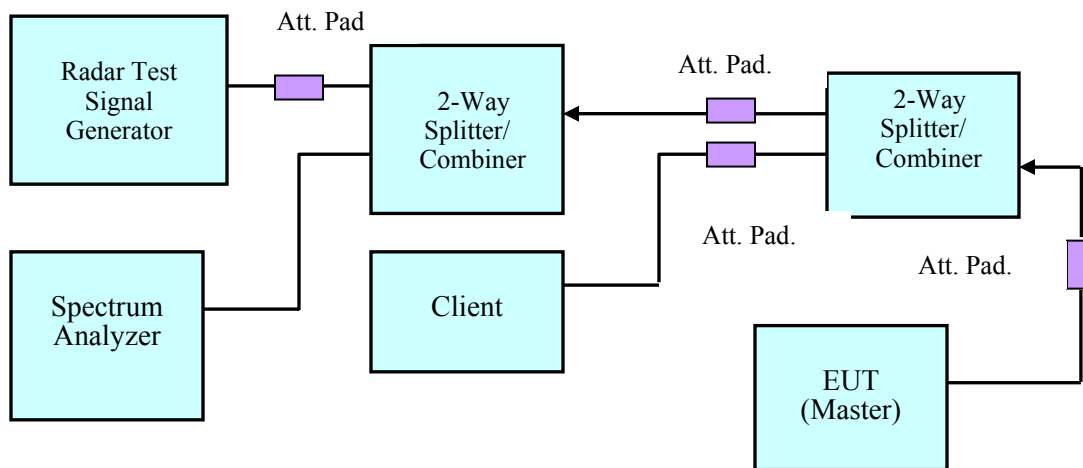
DFS Measurement System

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

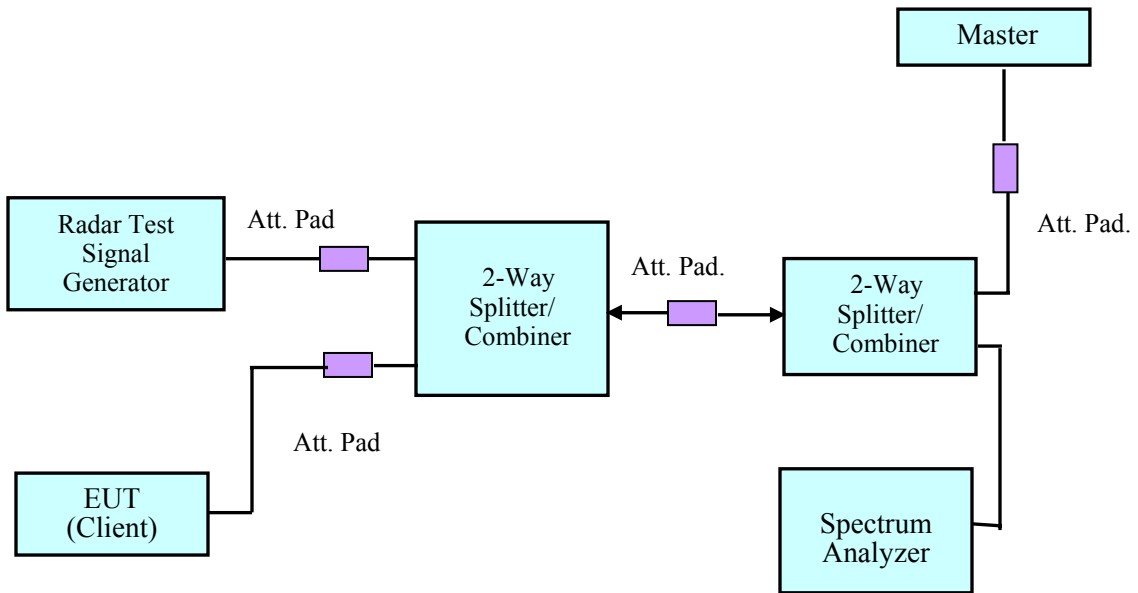
System Block Diagram



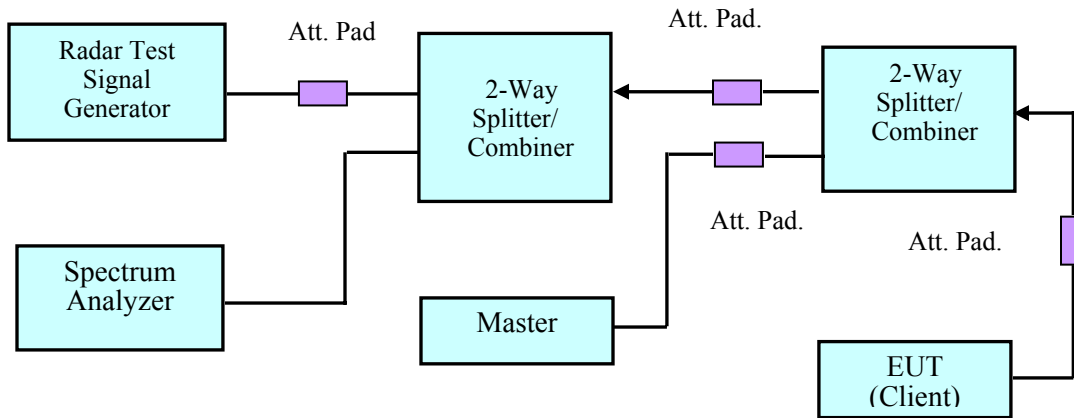
Conducted Method



Setup for Master with injection at the Master

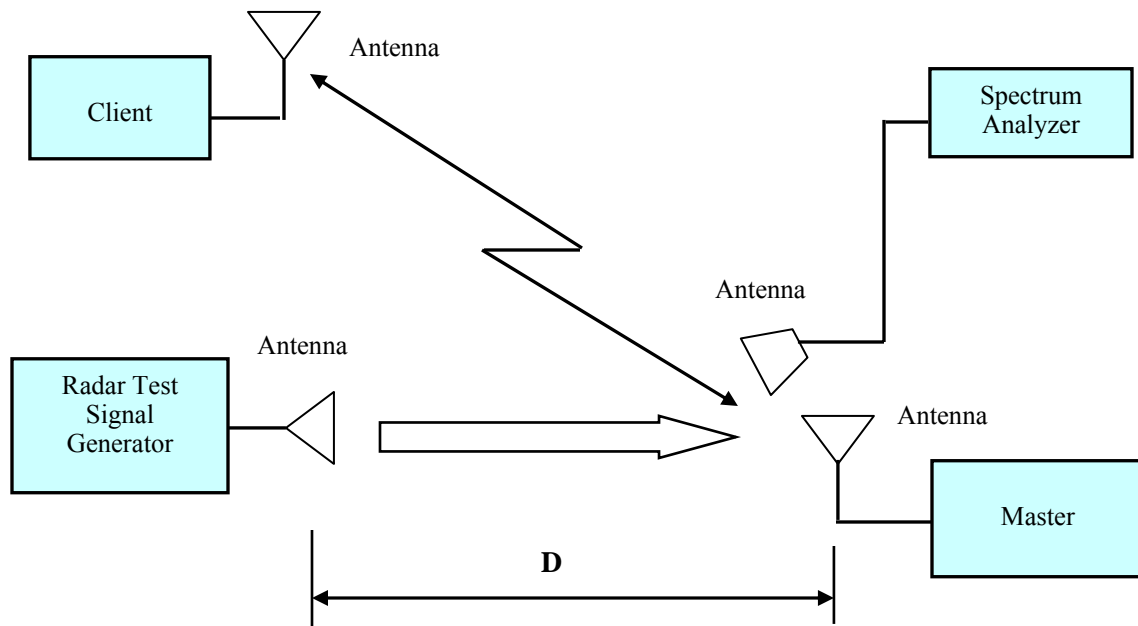


Setup for Client with injection at the Master



Setup for Client with injection at the Client

Radiated Method



Test Procedure

A spectrum analyzer is used as a monitor verifies that the EUT status including Channel Closing Transmission Time and Channel Move Time, and does not transmit on a Channel during the Non-Occupancy Period after the diction and Channel move. It is also used to monitor EUT transmissions during the Channel Availability Check Time.

SUMMARY OF TEST RESULT OF MASTER VF7811

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

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

TEST RESULTS

Description of EUT

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

The antenna of the EUT is tri-band Omni antenna, the gain is -2.3 dBi (5150-5850 MHz).

The rated output power of EUT is <23 dBm (EIRP), Therefore the required interference threshold level is -62 dBm, after correction for antenna gain and procedure adjustments, the required conducted threshold at antenna port is $-62 + (-2.3) + 1 = -63.3$ dBm.

The calibrated conducted DFS detection threshold level is set to -63.3 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.

Test result show that the EUT requires 21.5 seconds to complete its initial power-up cycle.

Test Equipment

Equipment Description	Manufacturer	Model Number	S/N
NI PXI-1042 8-Slot chassis	National Instruments	PXI-1042	V08X01EE1
Arbitrary Waveform Generator	National Instruments	PXI-5421	N/A
RF Upconverter	National Instruments	PXI-5610	N/A
Upconverter	ASCOR	AS-7206	n/A
Spectrum Analyzer	Agilent	E4440A	MY44303352
Pre-Amplifier	Avantek	2-8 GHz Lab AMP	218
Pre-Amplifier	Ducommun Technologies	ALN-09173030-01	990297-02
Splitter/Combiner	Mini-Circuits	2FSC-2-10G	0349
Splitter/Combiner	Narada	4326B-2	03514
Attenuator	MIDWest	290-30	N/A
Attenuator	Mini-Circuits	BW-S30W2	N/A

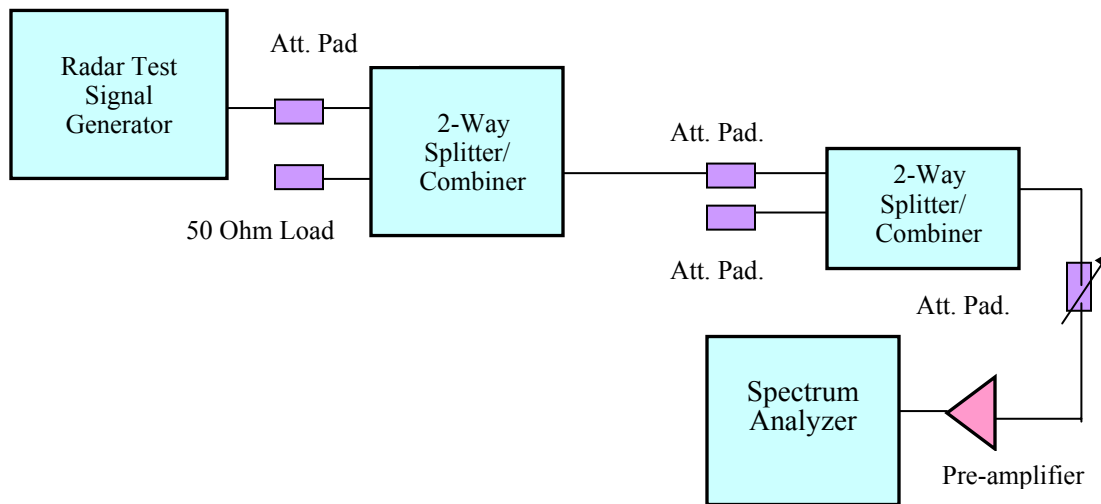
* **Statement of Traceability:** **BACL Corp.** attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

Environmental Conditions

Temperature:	20-23 °C
Relative Humidity:	48%- 55%
ATM Pressure:	1015 mbar

Testing performed by Victor Zhang on 2008-05-27 to 2008-06-03

Radar Waveform Calibration

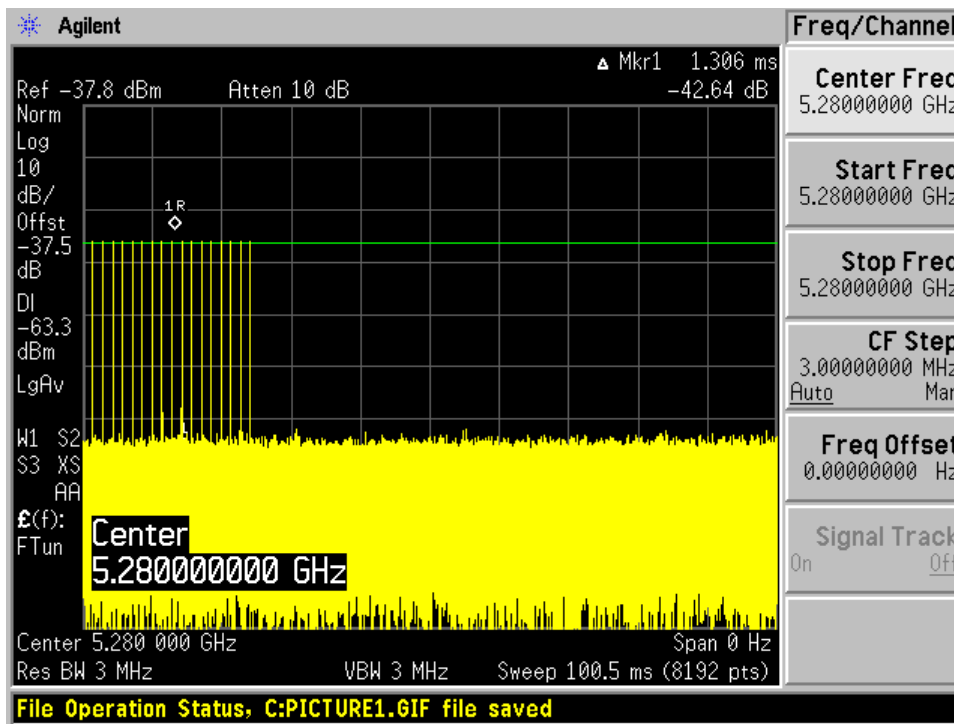


Conducted Calibration Setup Block Diagram

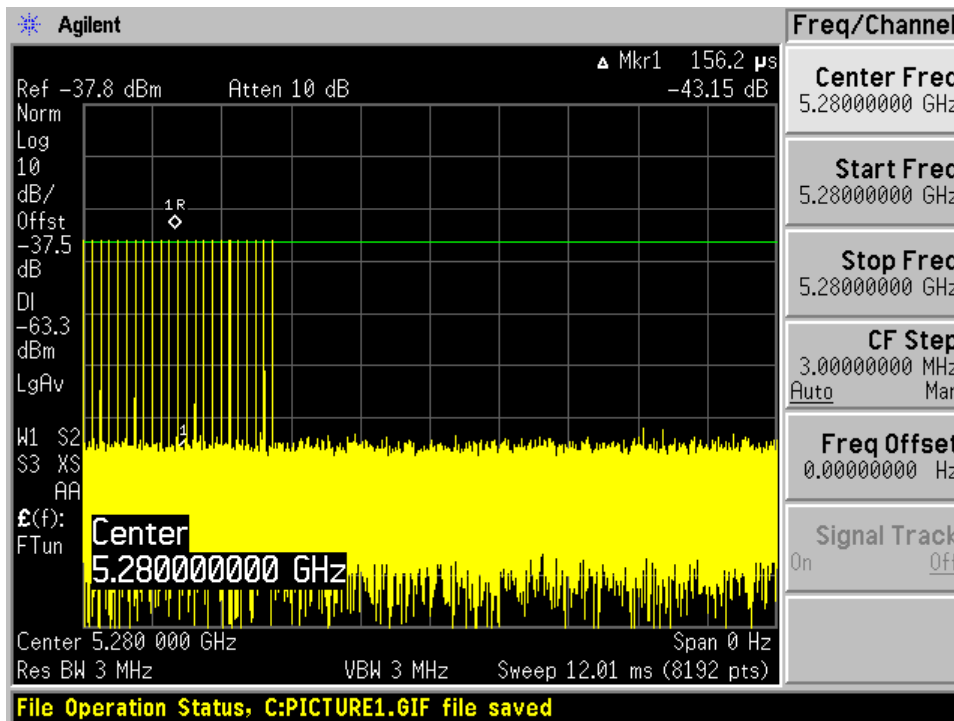
Plots of Radar Waveforms

5280 MHz

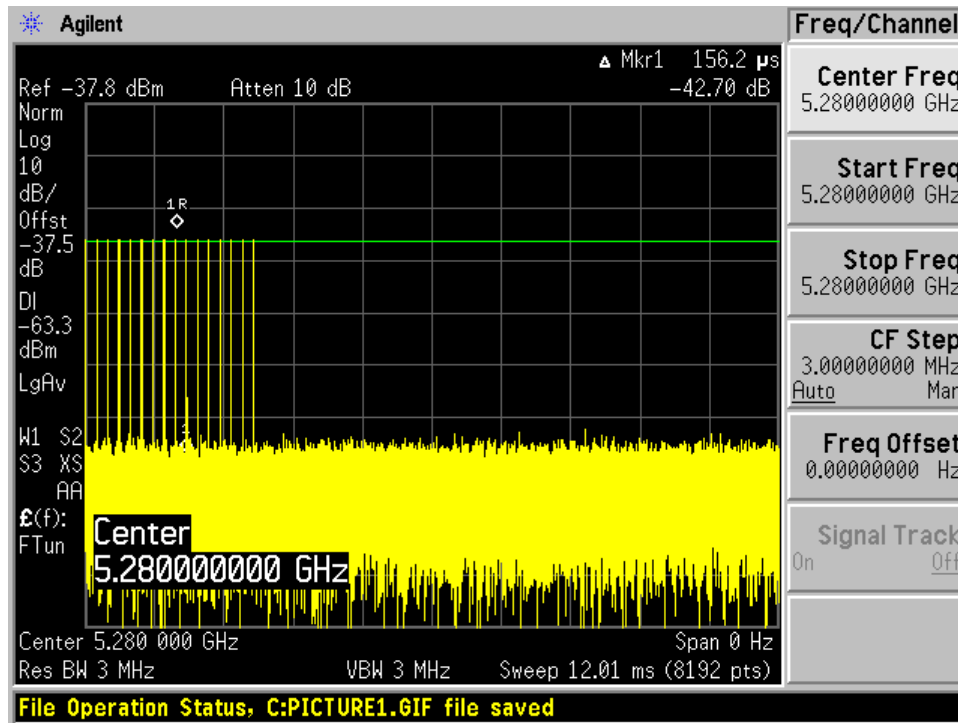
Radar Type 1



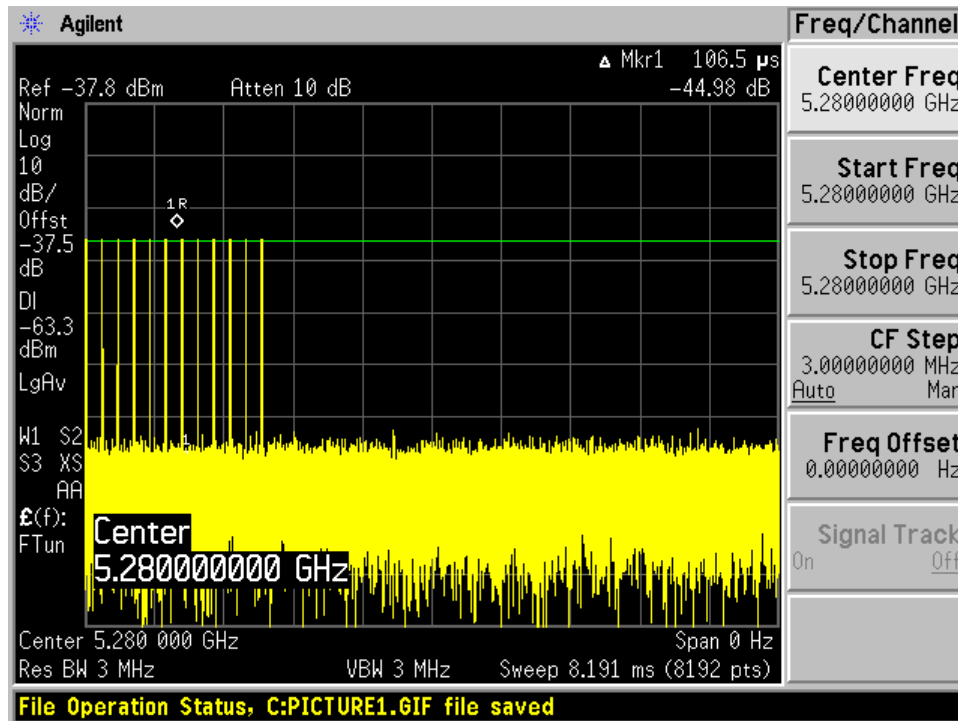
Radar Type 2



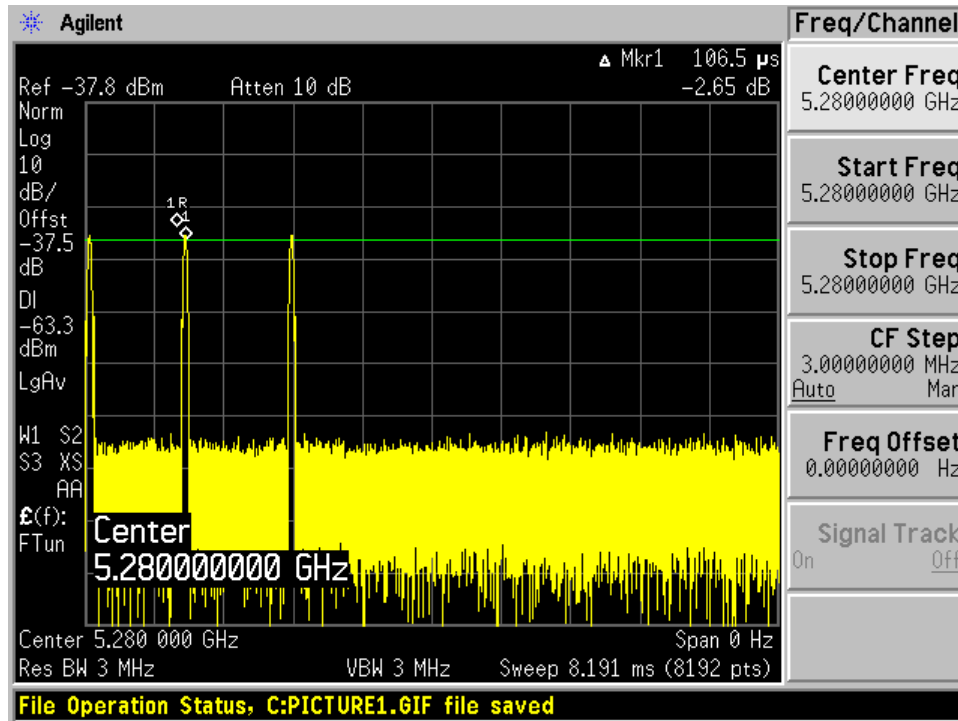
Radars Type 3



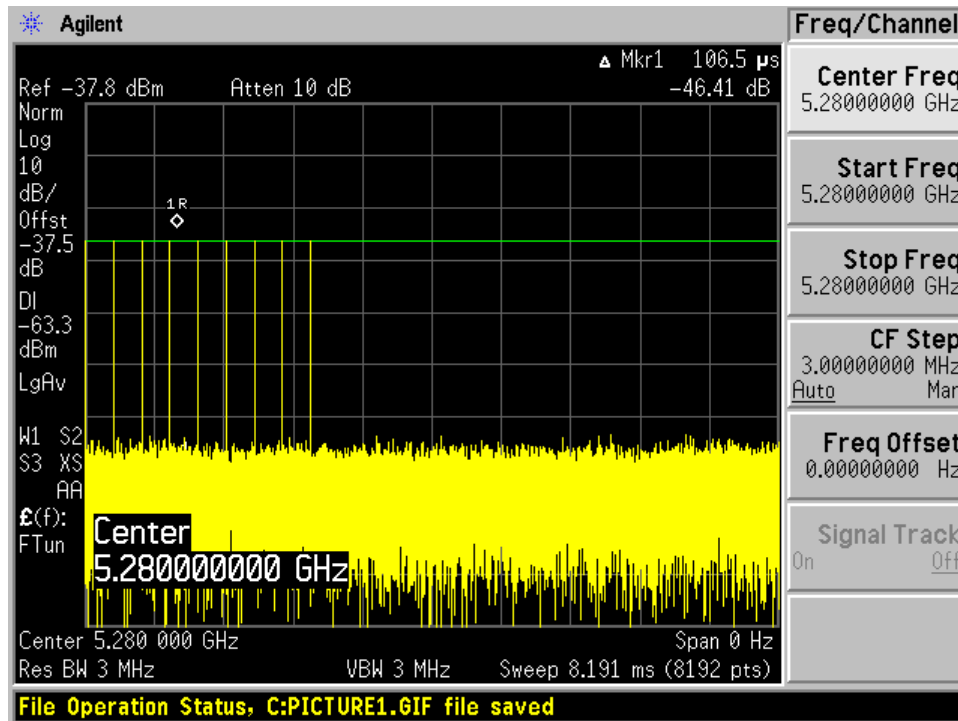
Radars Type 4



Radar Type 5

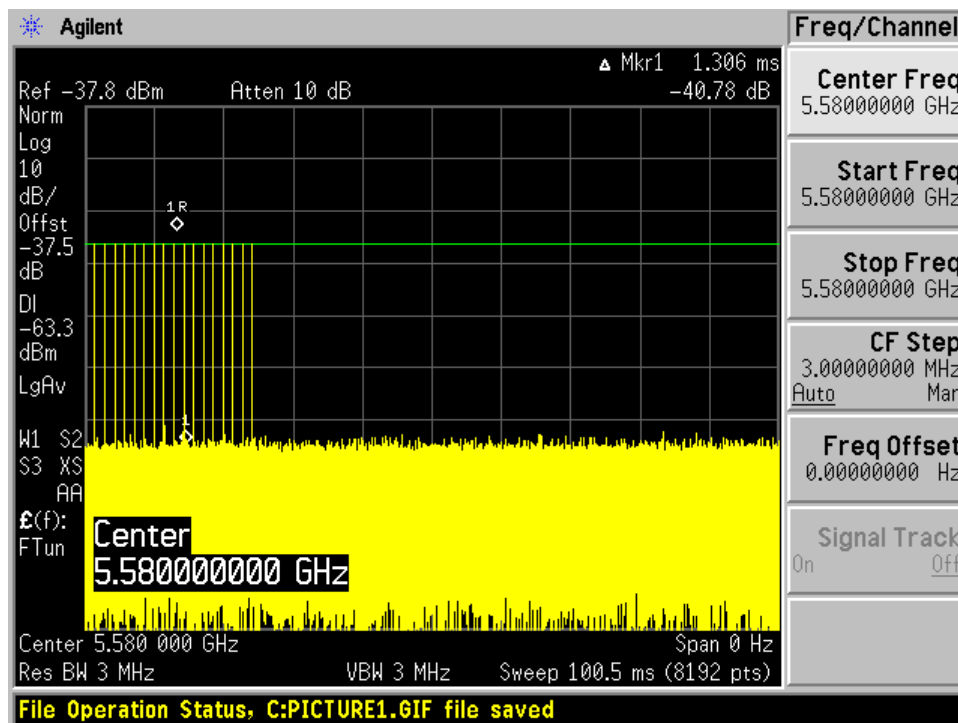


Radar Type 6

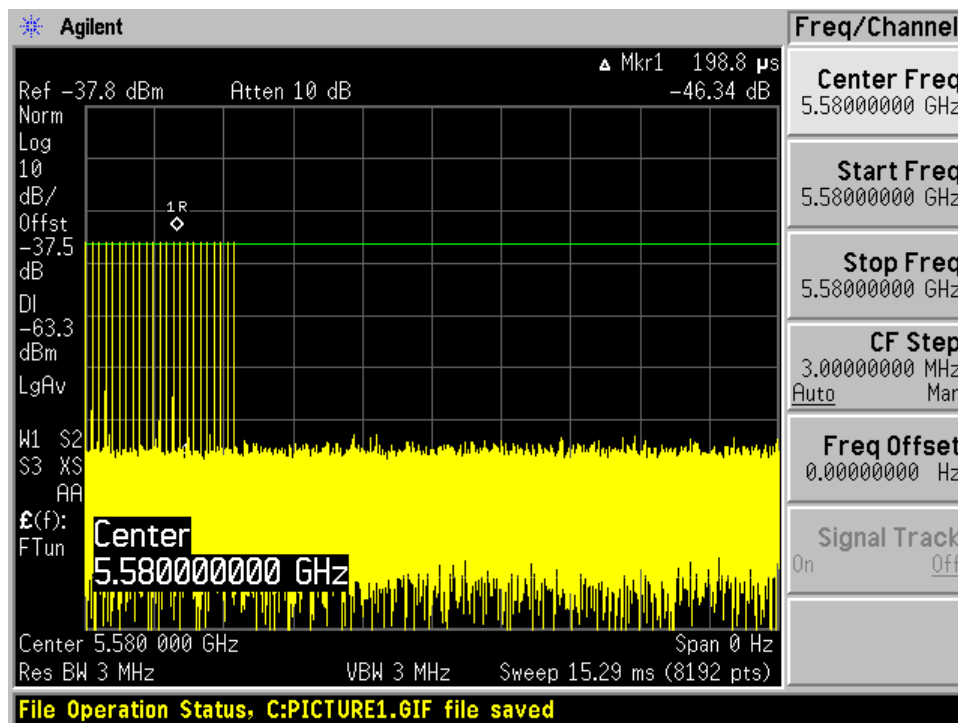


5580 MHz

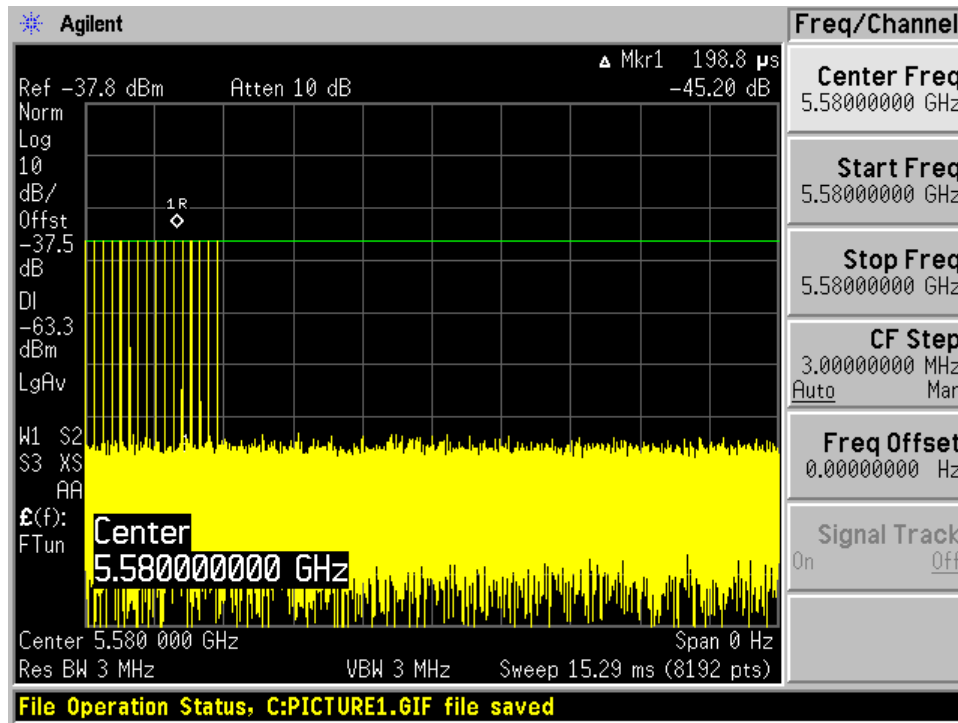
Radar Type 1



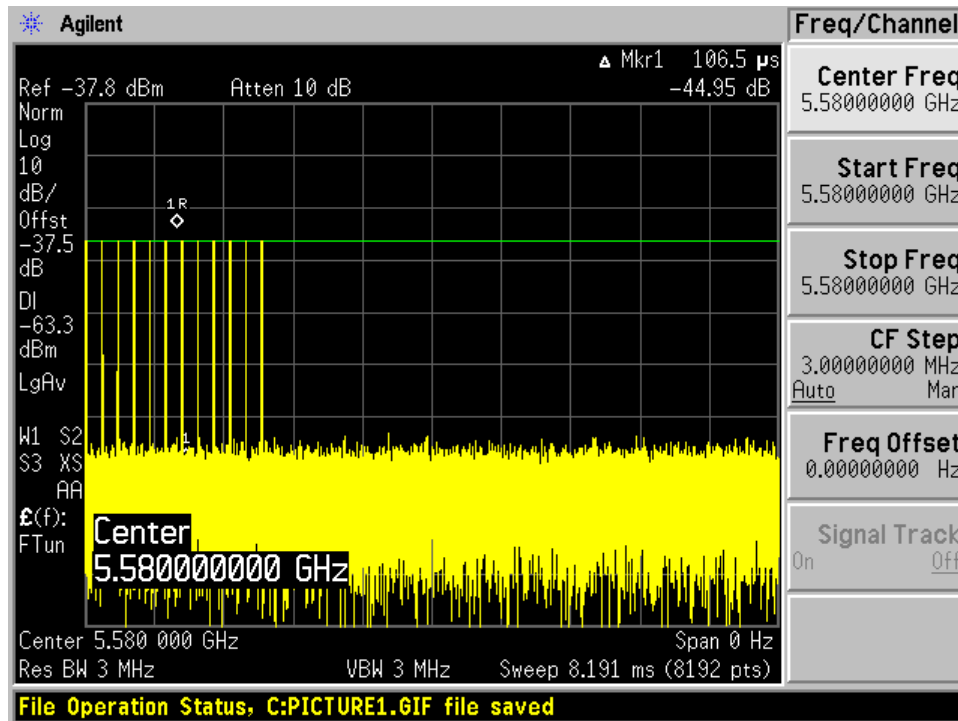
Radar Type 2



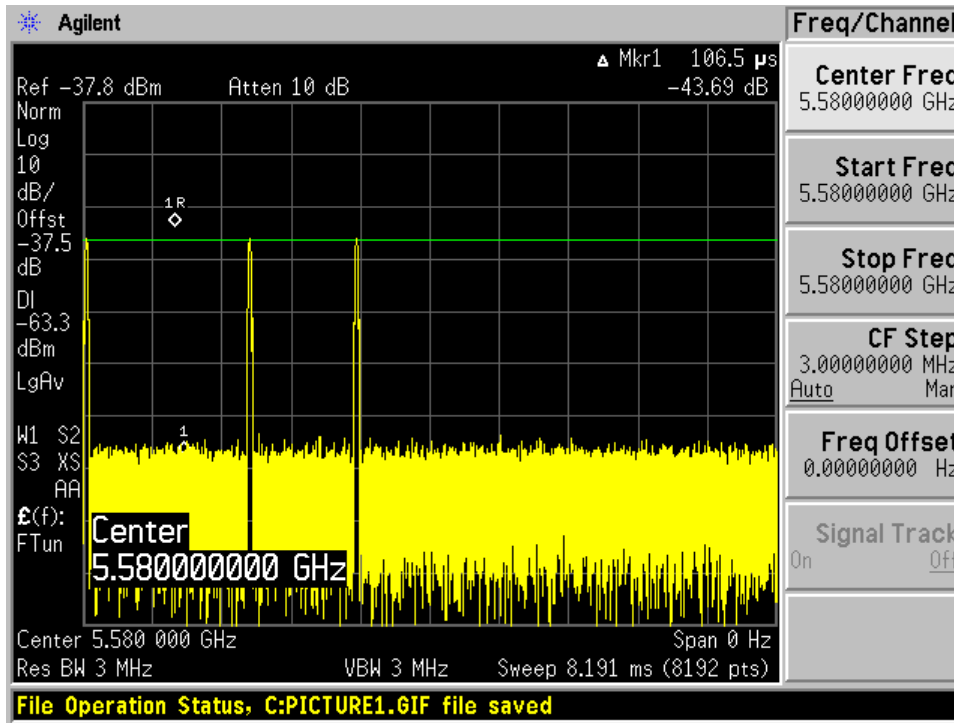
Radar Type 3



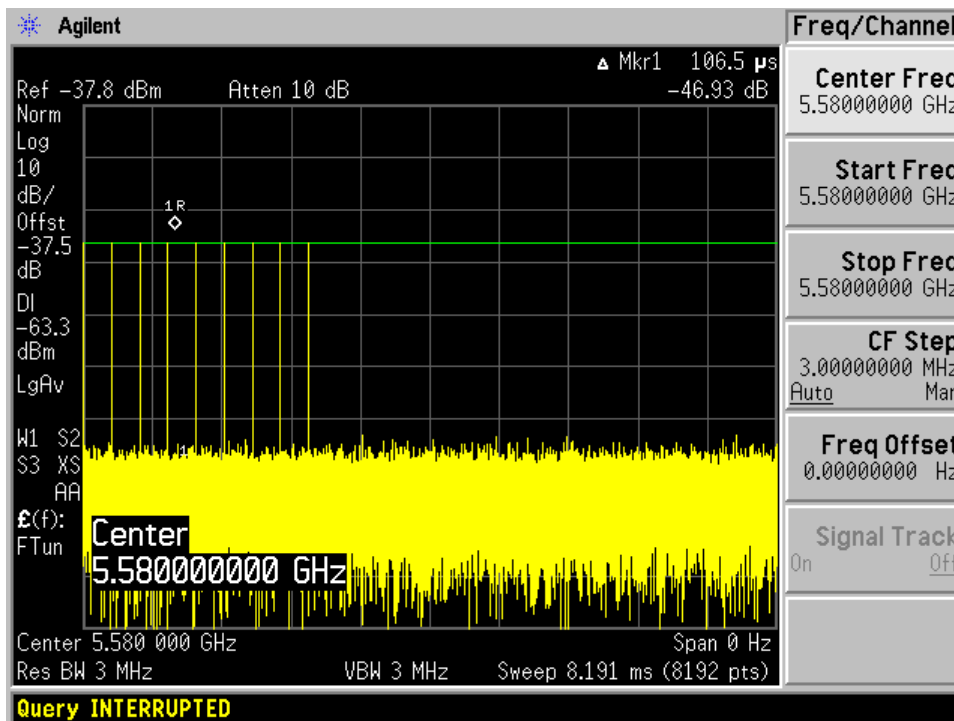
Radar Type 4



Radar Type 5



Radar Type 6



Channel Availability Check Time (CAC)

Test Procedure

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

EUT Initial power-up Cycle Time

5270 MHZ Bandwidth 40 MHz

EUT initial Power-up cycle (Second)
18.8

5300 MHZ Bandwidth 20 MHz, 5590 MHZ Bandwidth 40 MHz and 5600 MHZ Bandwidth 20 MHz

EUT initial Power-up cycle (Second)
23

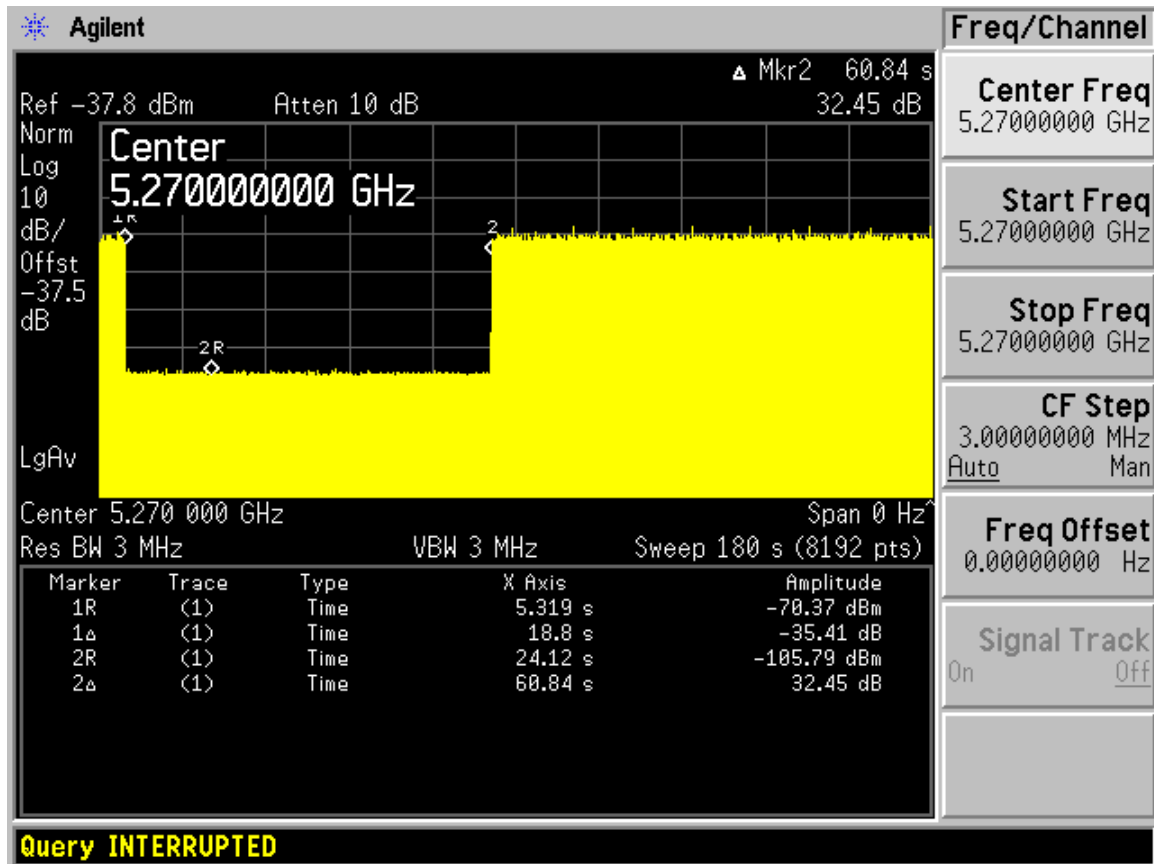
Results:

Timing of Radar Burst	Spectrum Analyzer Display
No Radar Triggered	Transmission begin after power-up cycle +60 seconds CAC
Within 6 seconds of the CAC starting	No transmission
Within the last 6 seconds of the CAC	No transmission

Please refer to the following plots.

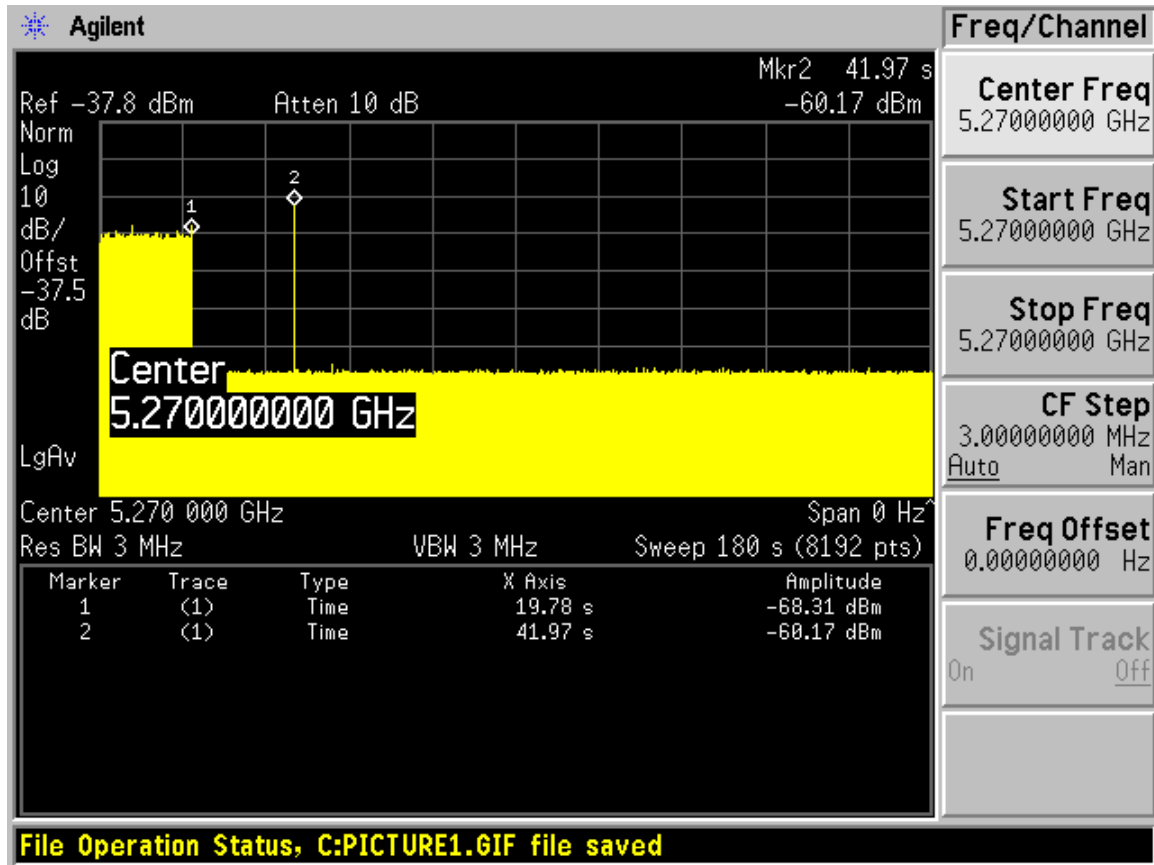
5270 MHZ Bandwidth 40 MHz

Plot of without Radar signal applied



Note: The power-up cycle is 18.8 seconds

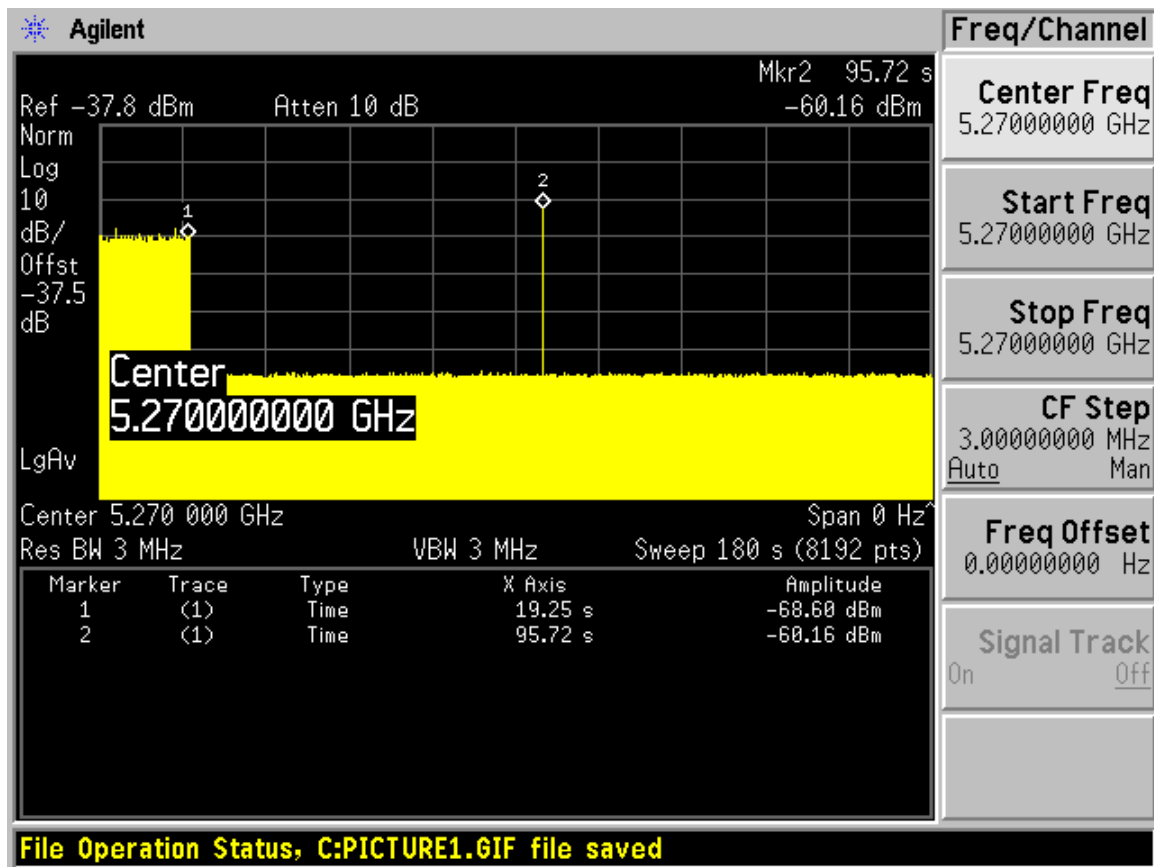
Plot of Radar signal applied within 6 seconds of start of CAC



Note: The radar signal applied $41.97 - 19.78 = 22.19$ seconds after reboot, which is $22.19 - 18.8 = 3.39$ seconds after start of CAC period.

No transmissions found after radar signal applied.

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

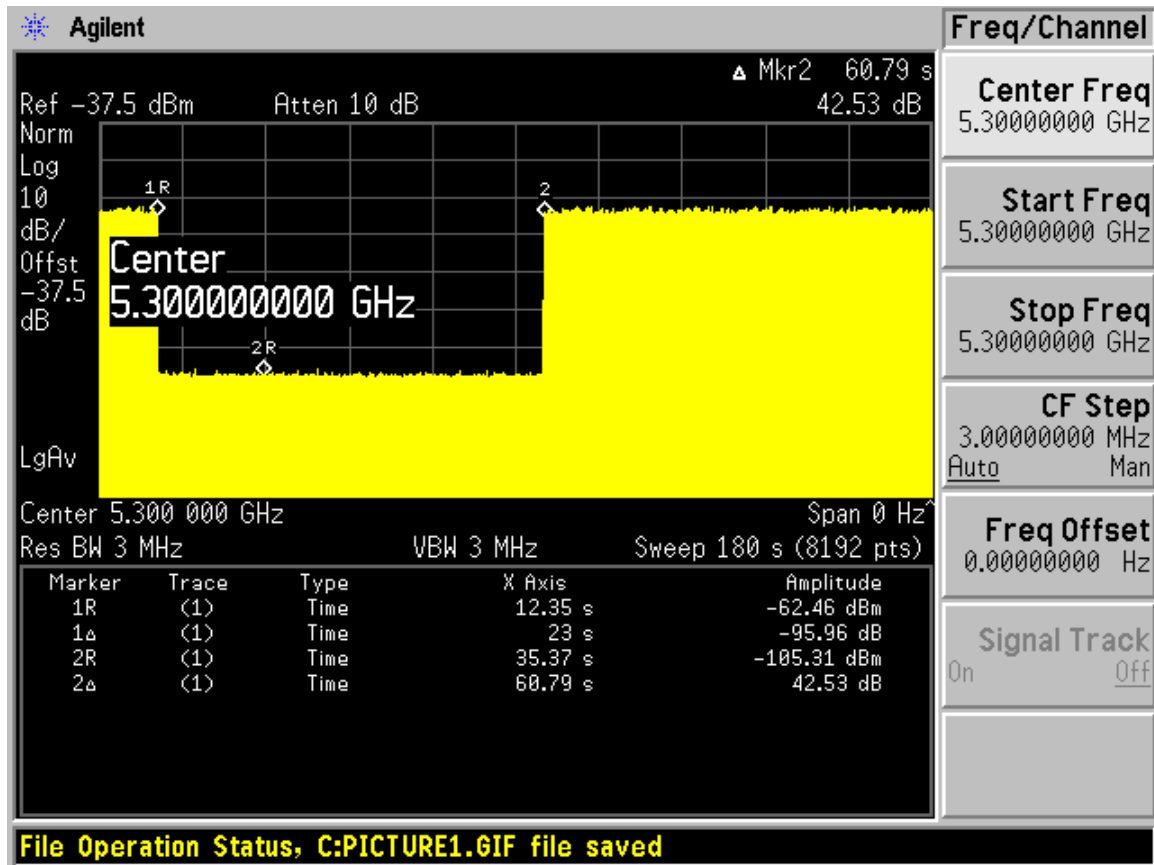


Note: Radar signal was applied $95.72 - 19.25 = 76.47$ seconds after reboot, which is $76.47 - 18.8 = 57.67$ seconds after the start of CAC period.

No transmissions found after radar signal applied.

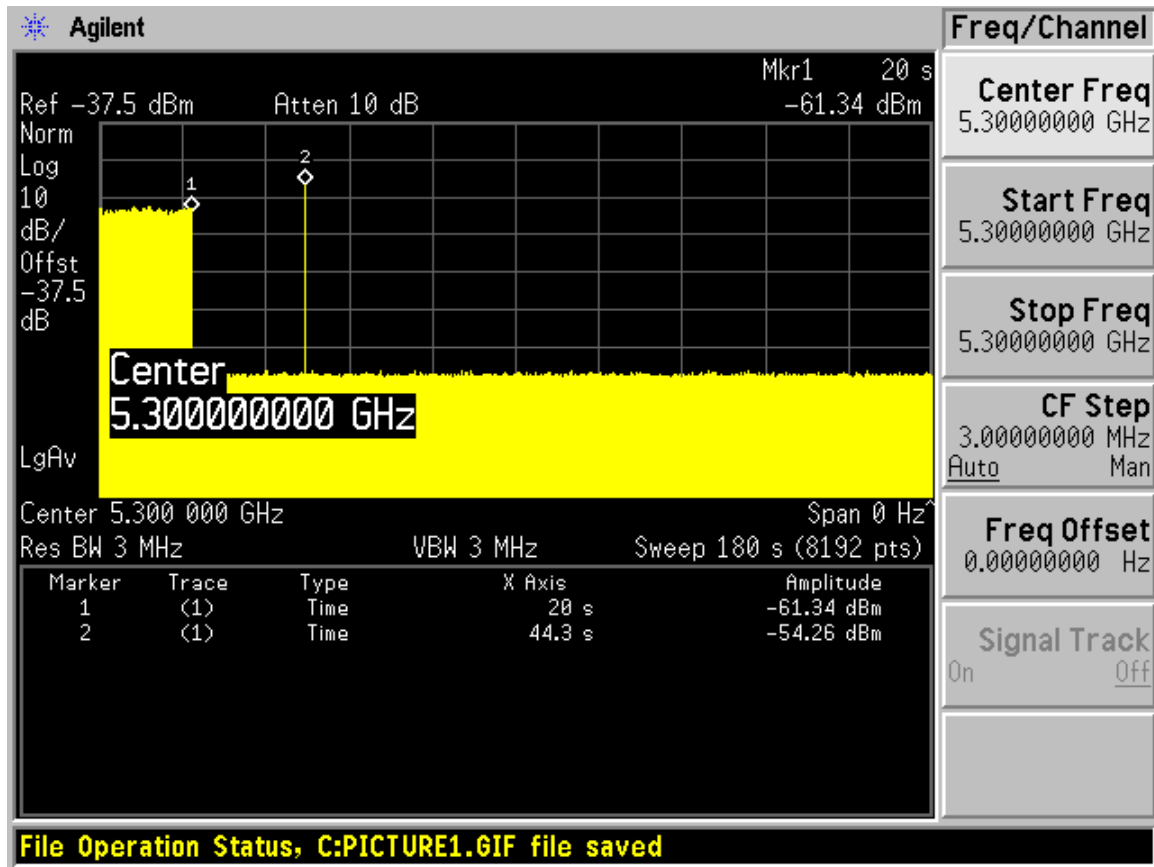
5300 MHZ Bandwidth 20 MHz

Plot of without Radar signal applied



Note: The power-up cycle is 23 seconds

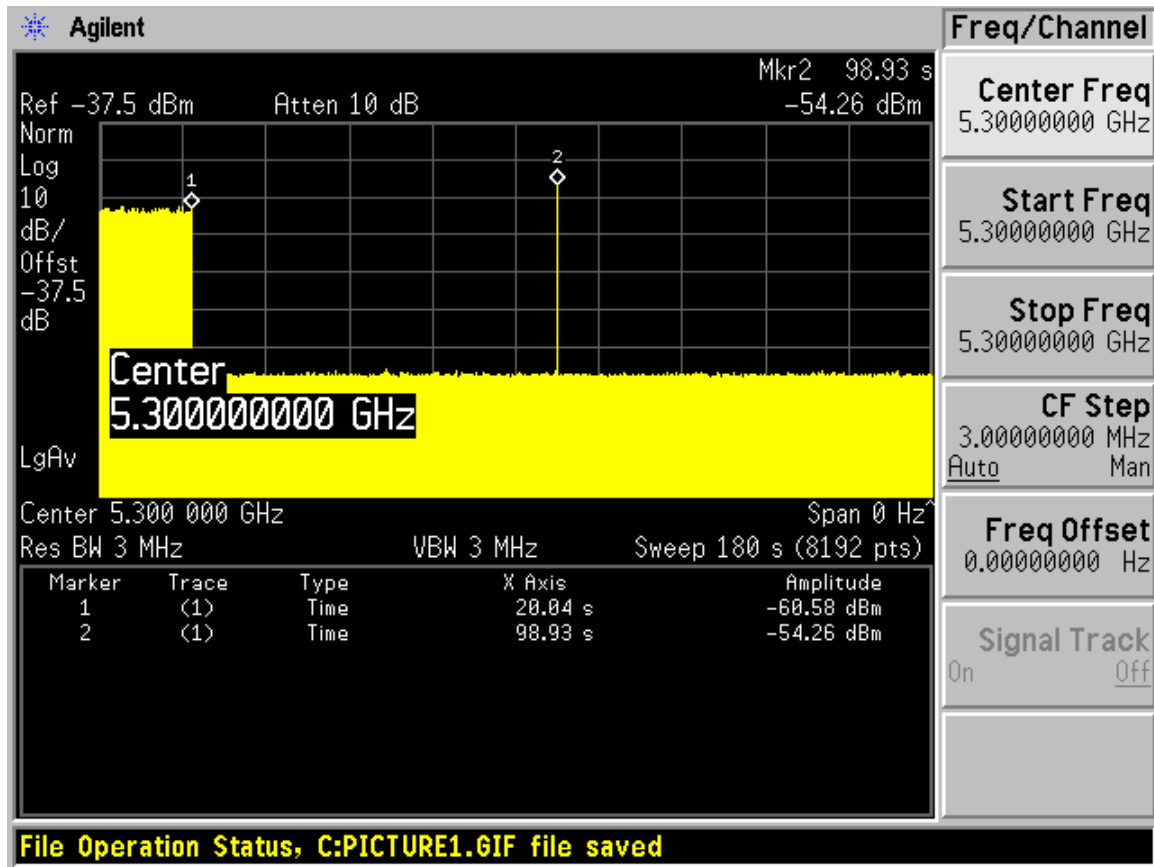
Plot of Radar signal applied within 6 seconds of start of CAC



Note: The radar signal applied $44.3 - 20 = 24.3$ seconds after reboot, which is $24.3 - 23 = 1.3$ seconds after start of CAC period.

No transmissions found after radar signal applied.

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

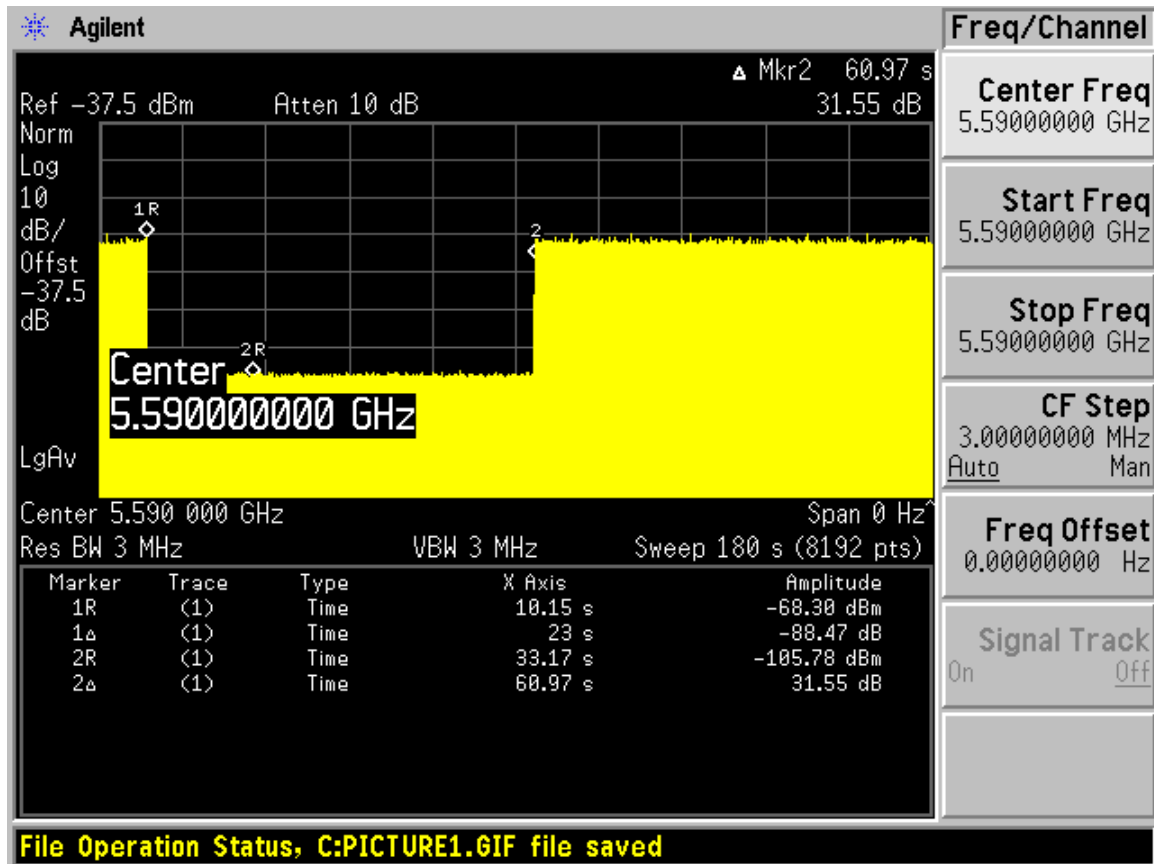


Note: Radar signal was applied $98.93 - 20.04 = 78.89$ seconds after reboot, which is $78.89 - 23 = 55.89$ seconds after the start of CAC period.

No transmissions found after radar signal applied.

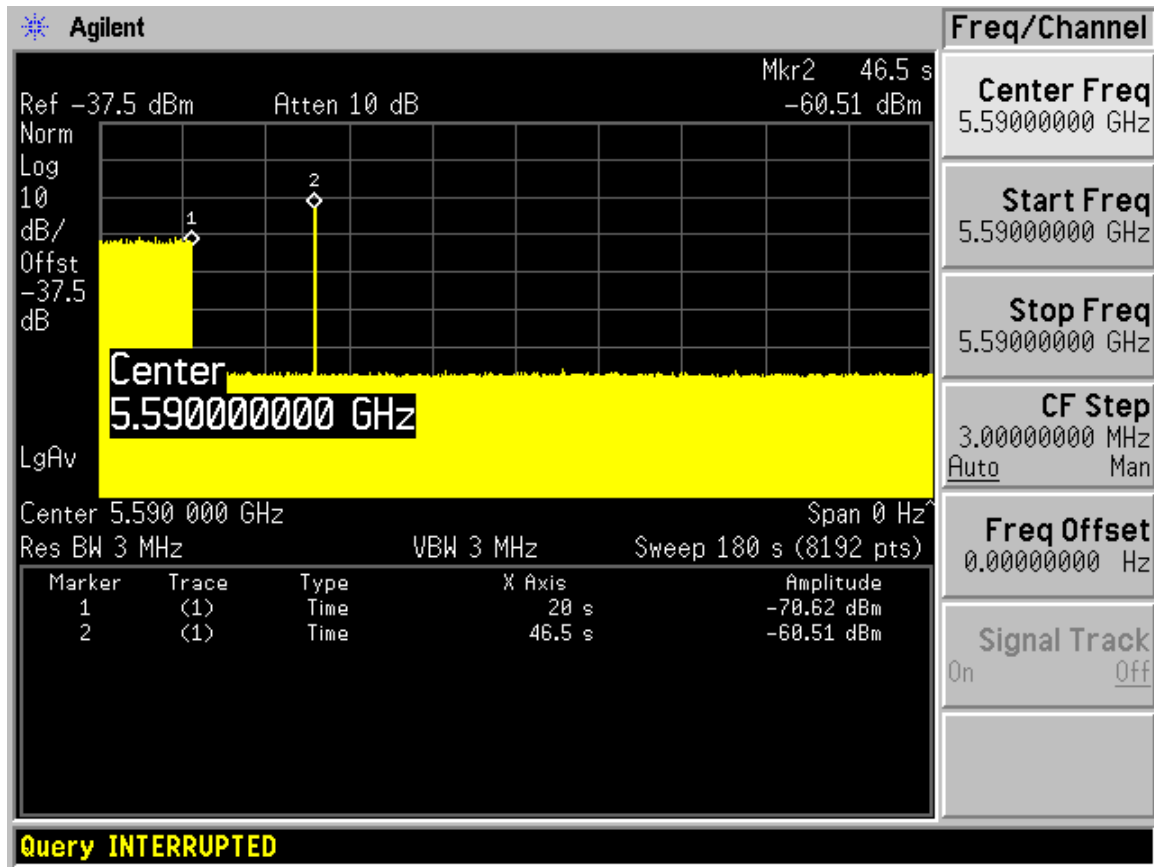
5590 MHZ Bandwidth 40 MHz

Plot of without Radar signal applied



Note: The power-up cycle is 23 seconds

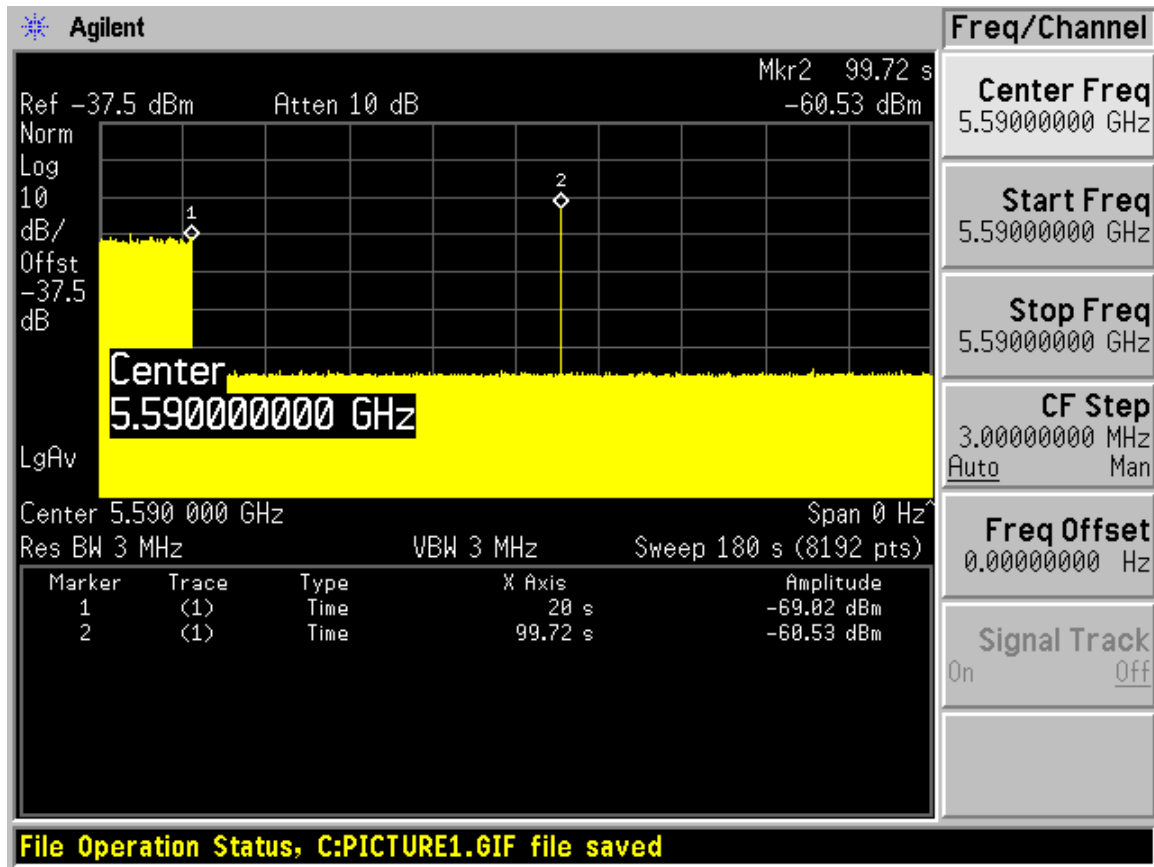
Plot of Radar signal applied within 6 seconds of start of CAC



Note: The radar signal applied $46.5 - 20 = 26.5$ seconds after reboot, which is $26.5 - 23 = 3.5$ seconds after start of CAC period.

No transmissions found after radar signal applied.

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

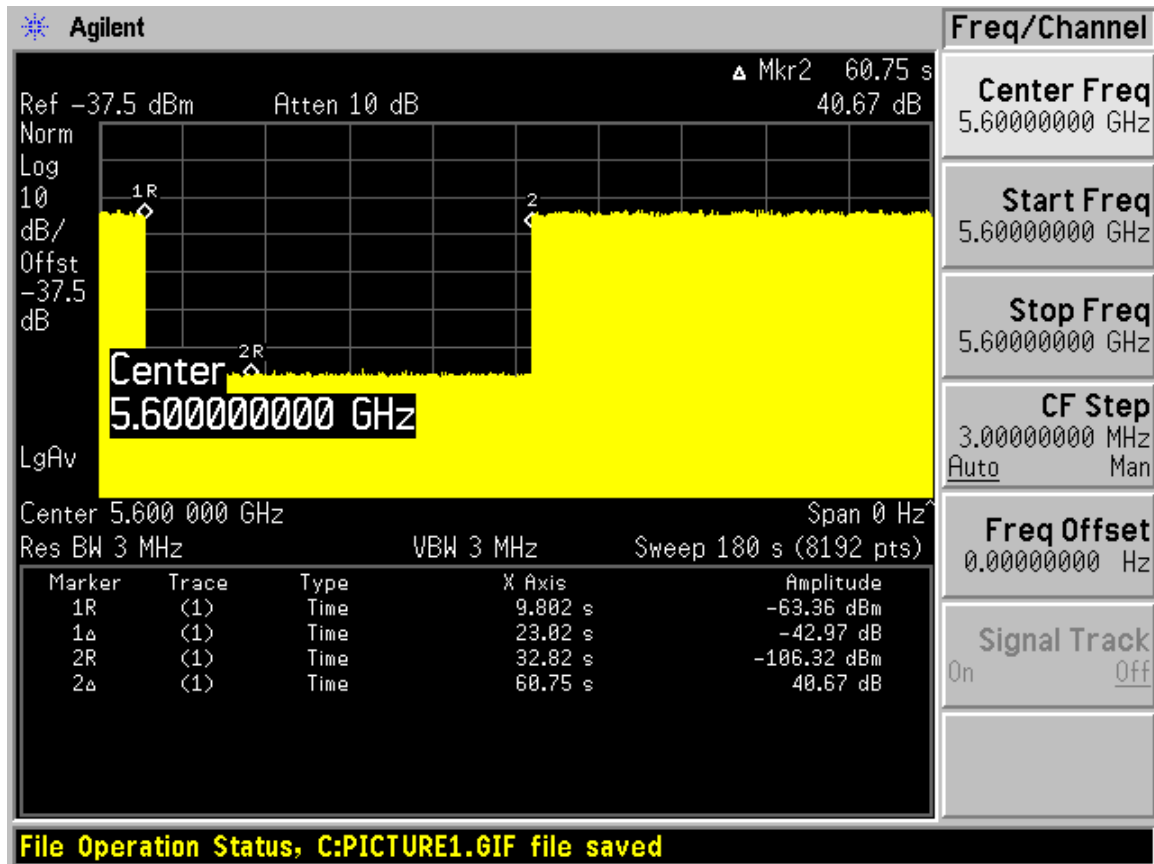


Note: Radar signal was applied $99.72 - 20 = 79.72$ seconds after reboot, which is $79.72 - 23 = 56.72$ seconds after the start of CAC period.

No transmissions found after radar signal applied.

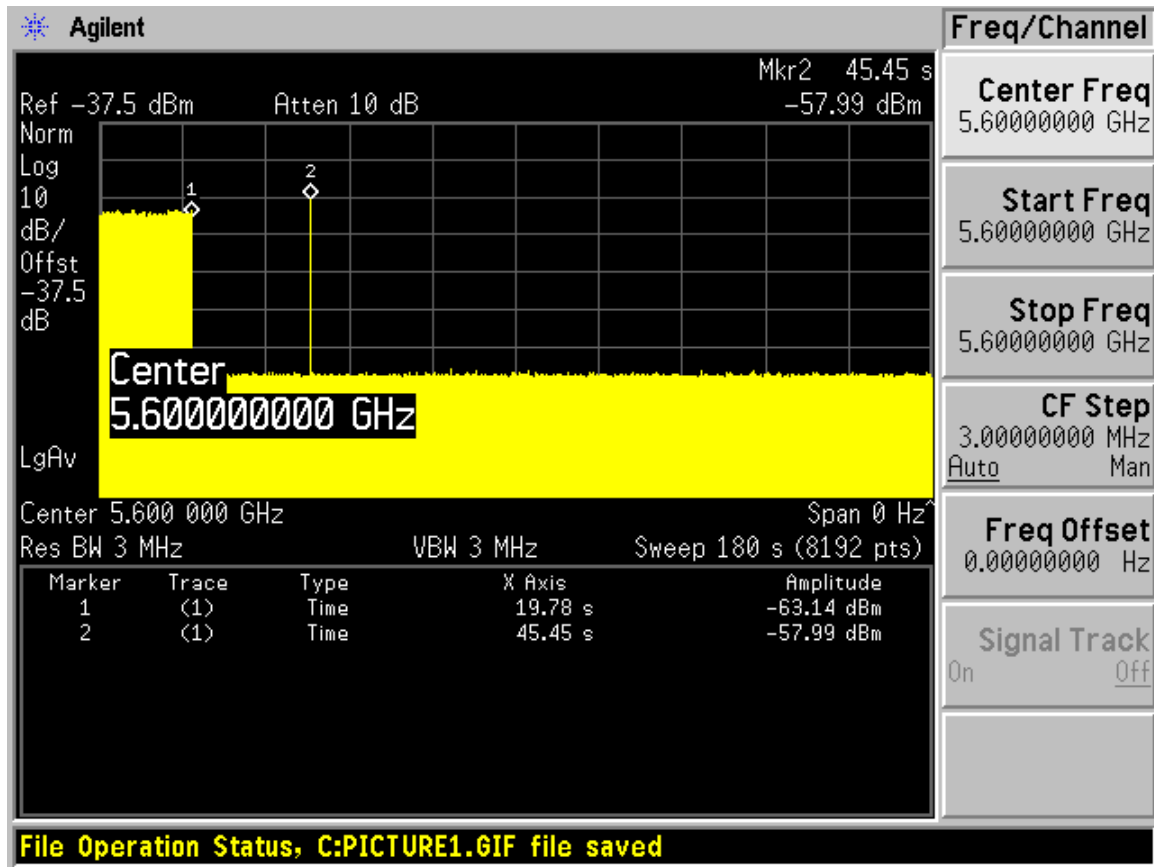
5600 MHZ Bandwidth 20 MHz

Plot of without Radar signal applied



Note: The power-up cycle is 23 seconds

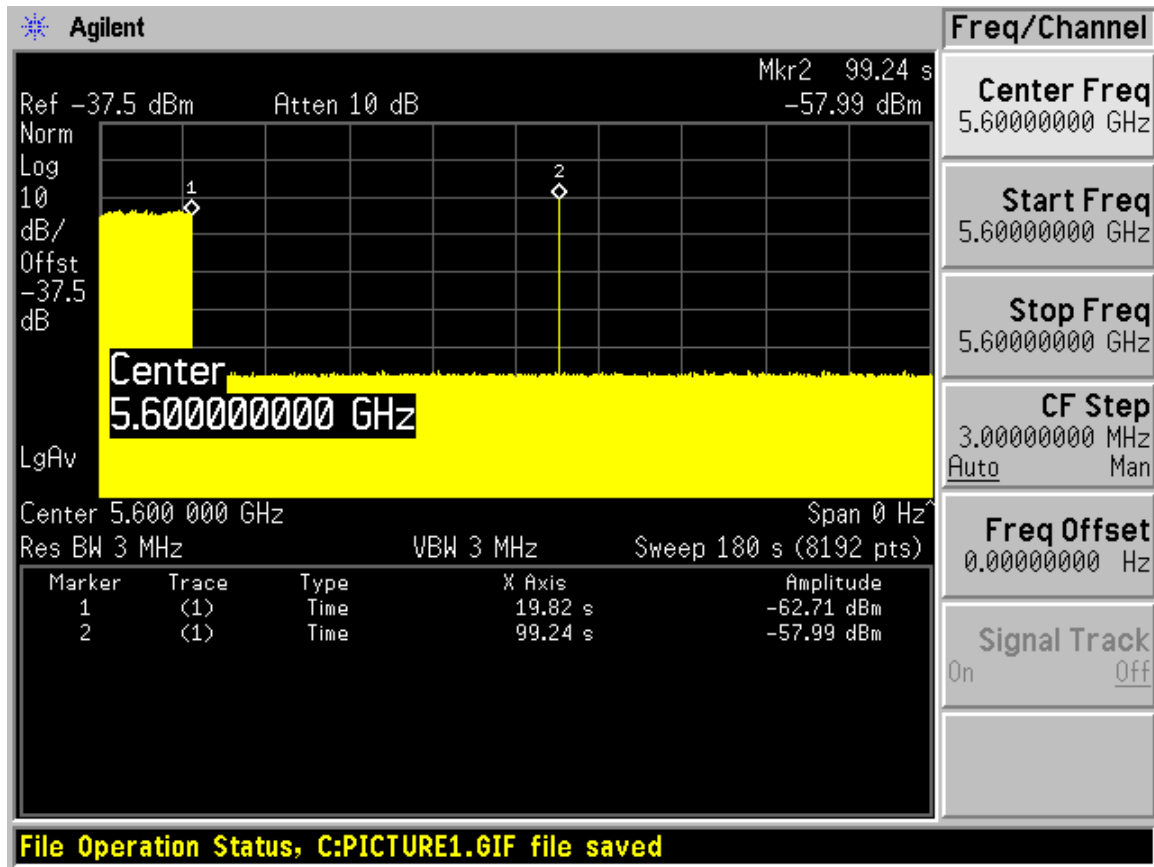
Plot of Radar signal applied within 6 seconds of start of CAC



Note: The radar signal applied $45.45 - 19.78 = 26.5$ seconds after reboot, which is $25.67 - 23 = 2.67$ seconds after start of CAC period.

No transmissions found after radar signal applied.

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



Note: Radar signal was applied $99.24 - 19.82 = 79.42$ seconds after reboot, which is $79.42 - 23 = 56.42$ seconds after the start of CAC period.

No transmissions found after radar signal applied.

Channel Move Time and Channel Closing Transmission Time

Test Procedure:

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

The aggregate channel closing transmission time is calculated as follows:

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

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

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

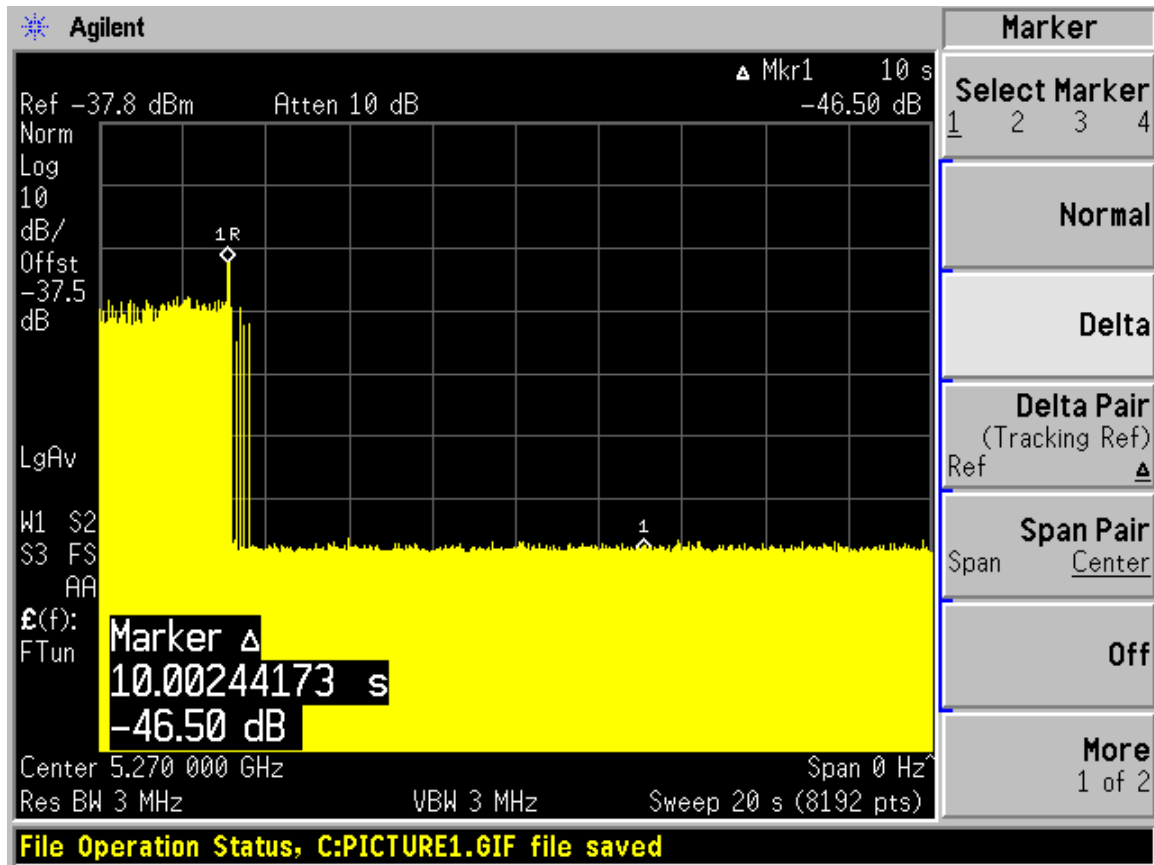
Test Results:

Frequency (MHz)	Bandwidth (MHz)	Radar Type	Results
5270	40	Type 1	Compliance
		Type 5	Compliance
5300	20	Type 3	Compliance
		Type 5	Compliance
5590	40	Type 1	Compliance
		Type 5	Compliance
5600	20	Type 1	Compliance
		Type 5	Compliance

Please refer to the following tables and plots.

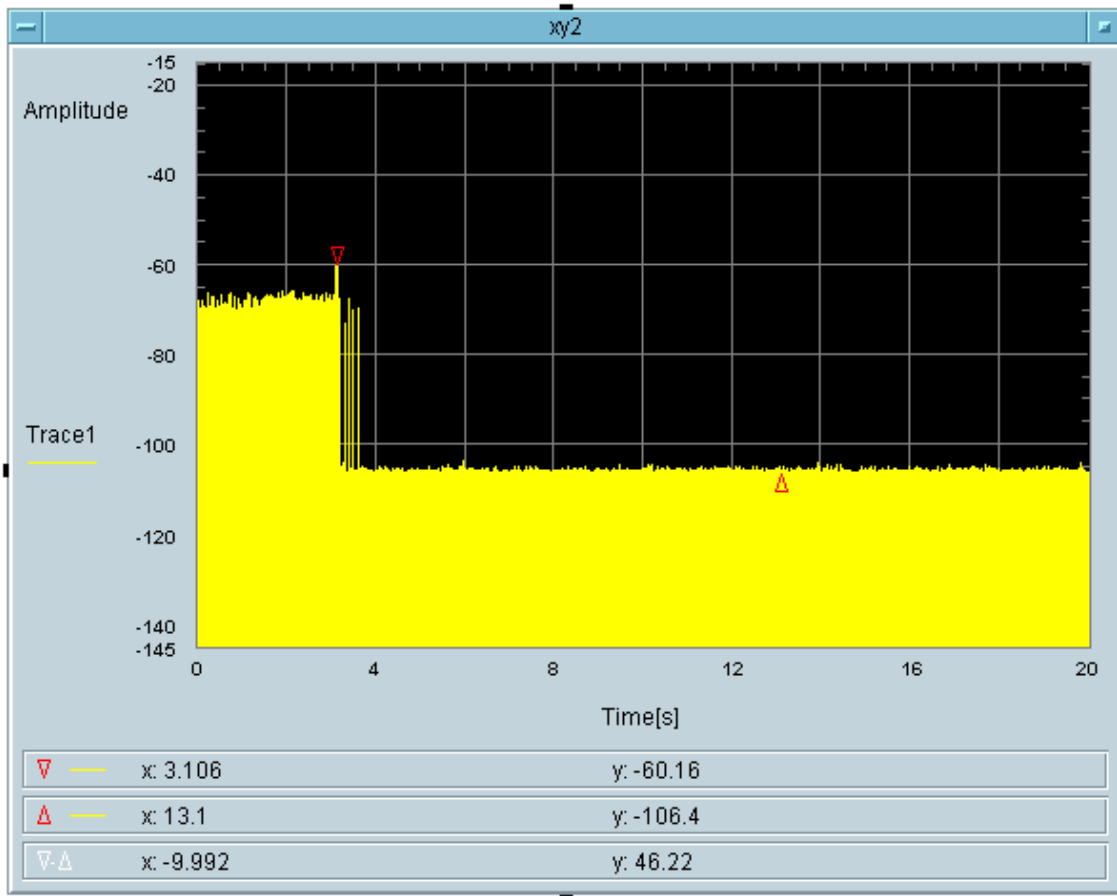
5270 MHz Bandwidth 40 MHz

Type 1 radar channel move time result:



Type1 radar channel closing transmission time result:

Aggregate Transmission Time (ms)	Limit (ms)	Margin (ms)
7.324	60	52.676

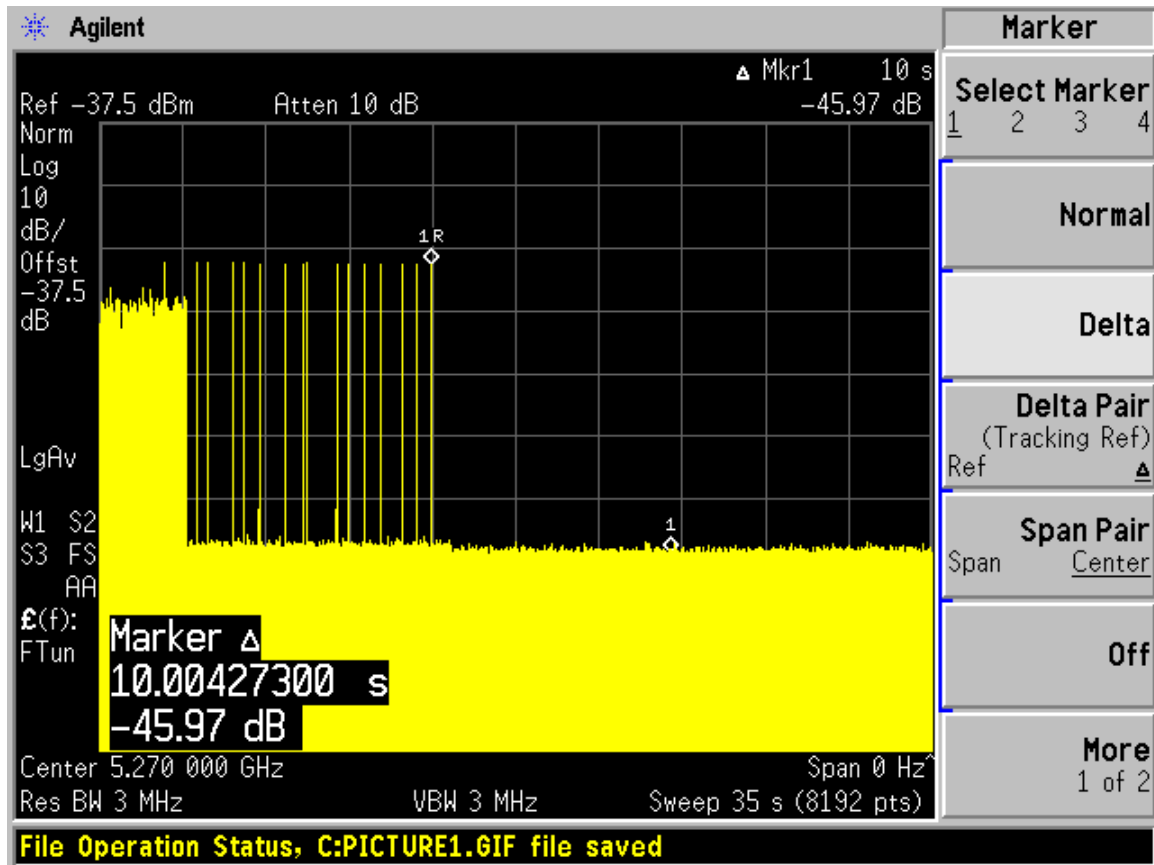


Total On Time [s]
14.65m

Total On Time After Delay [s]
7.324m

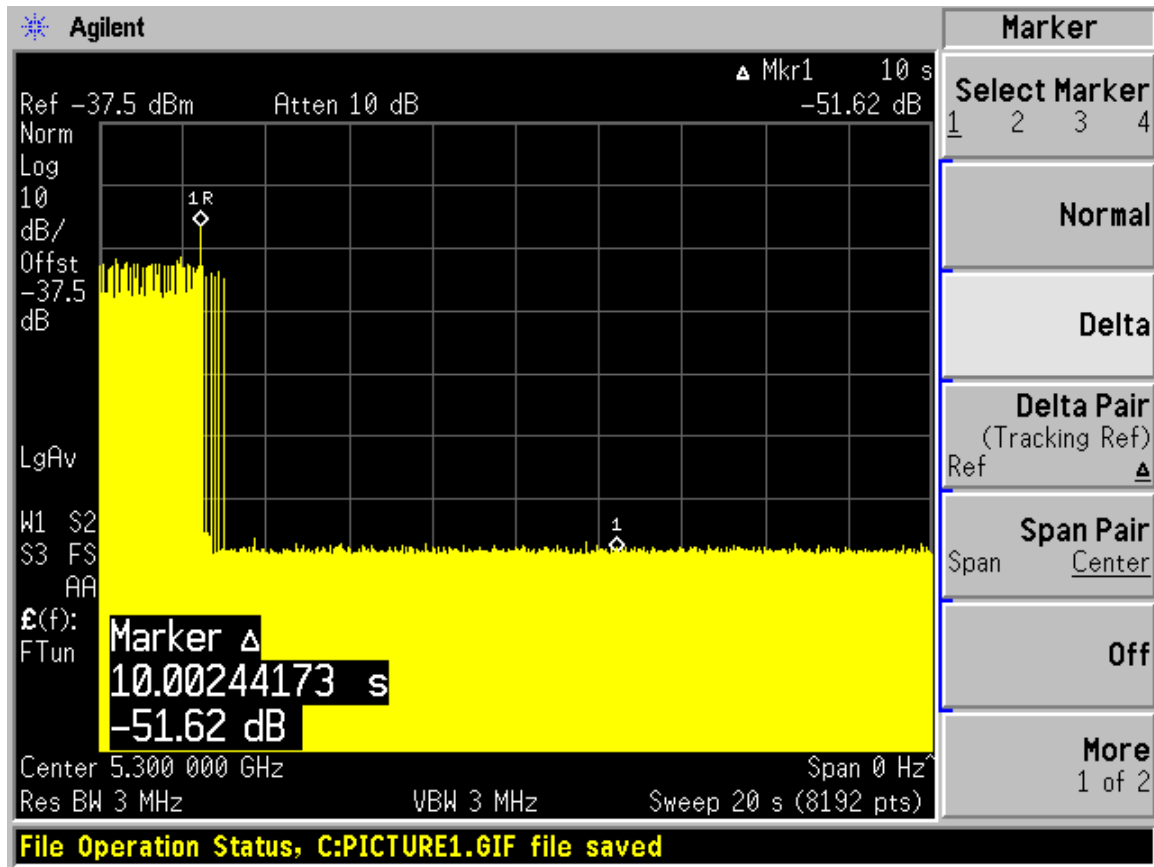
Type 5 radar channel move time result:

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



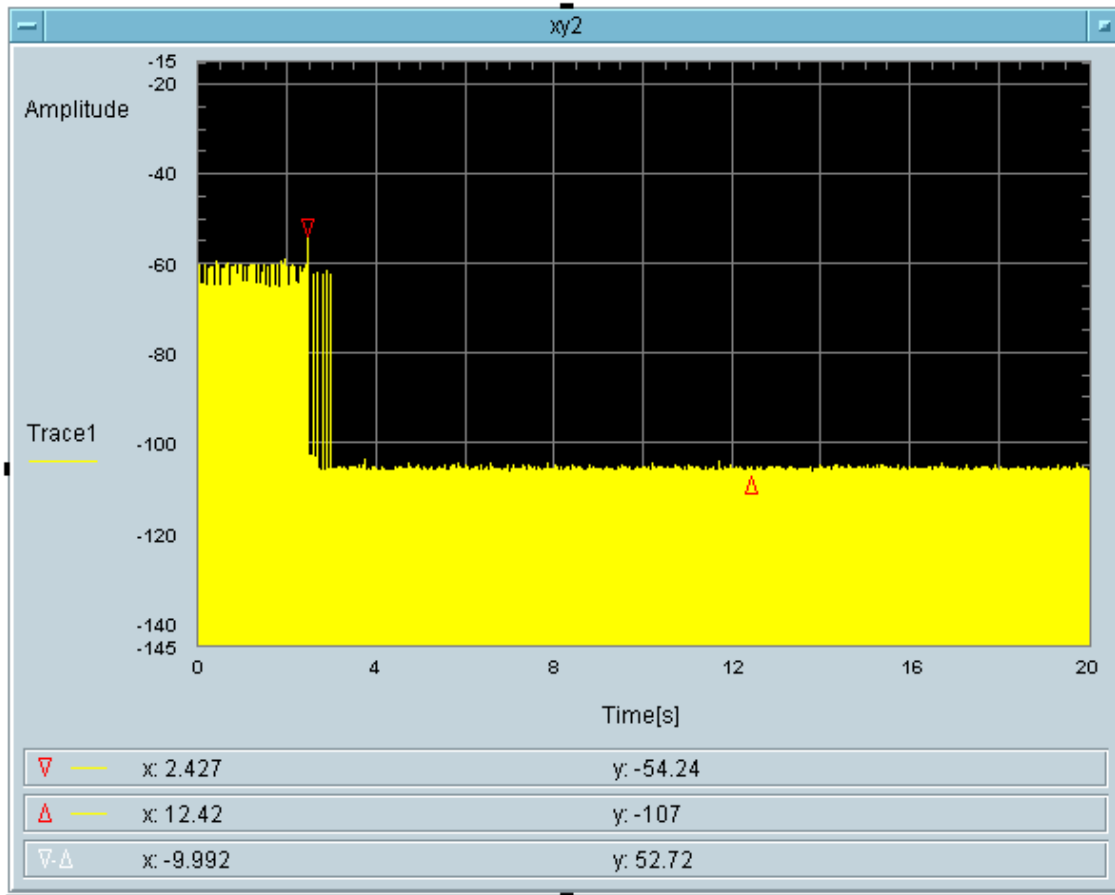
5300 MHz Bandwidth 20 MHz

Type 3 radar channel move time result:



Type3 radar channel closing transmission time result:

Aggregate Transmission Time (ms)	Limit (ms)	Margin (ms)
9.766	60	50.234

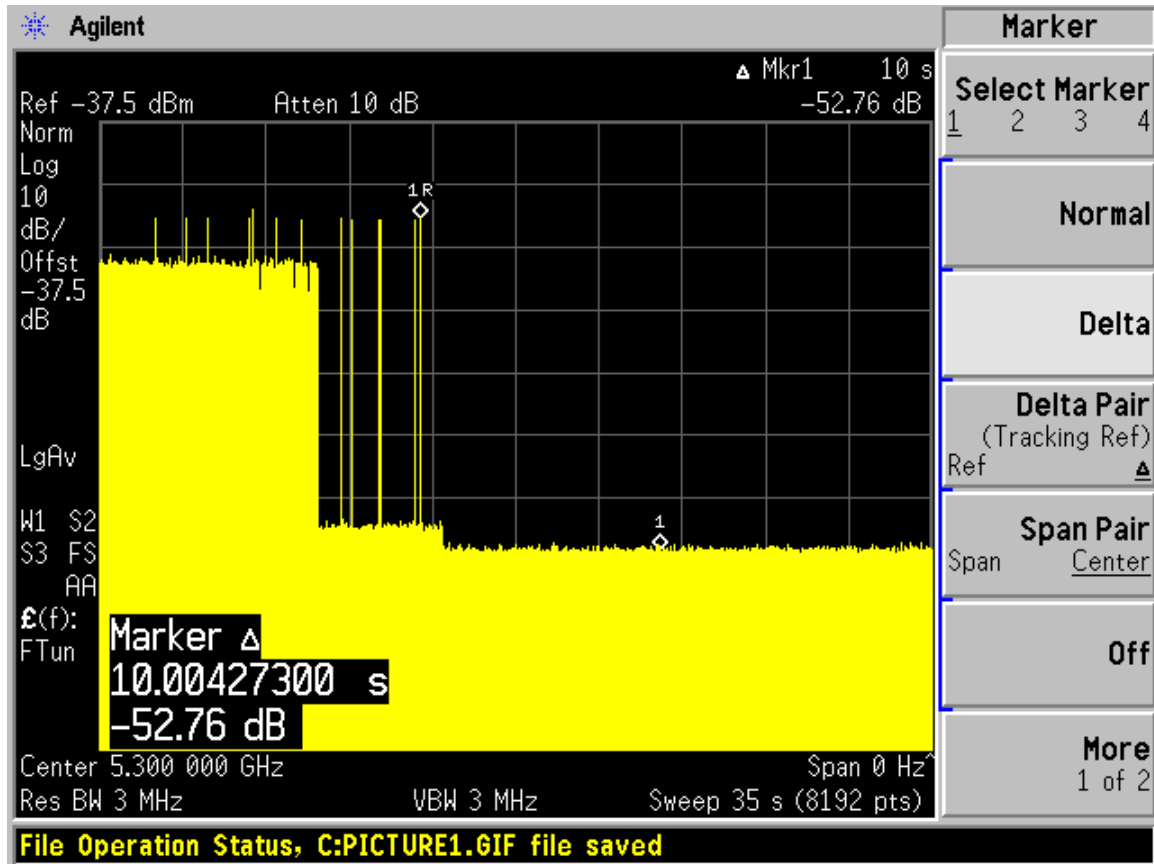


Total On Time [s]
17.09m

Total On Time After Delay [s]
9.766m

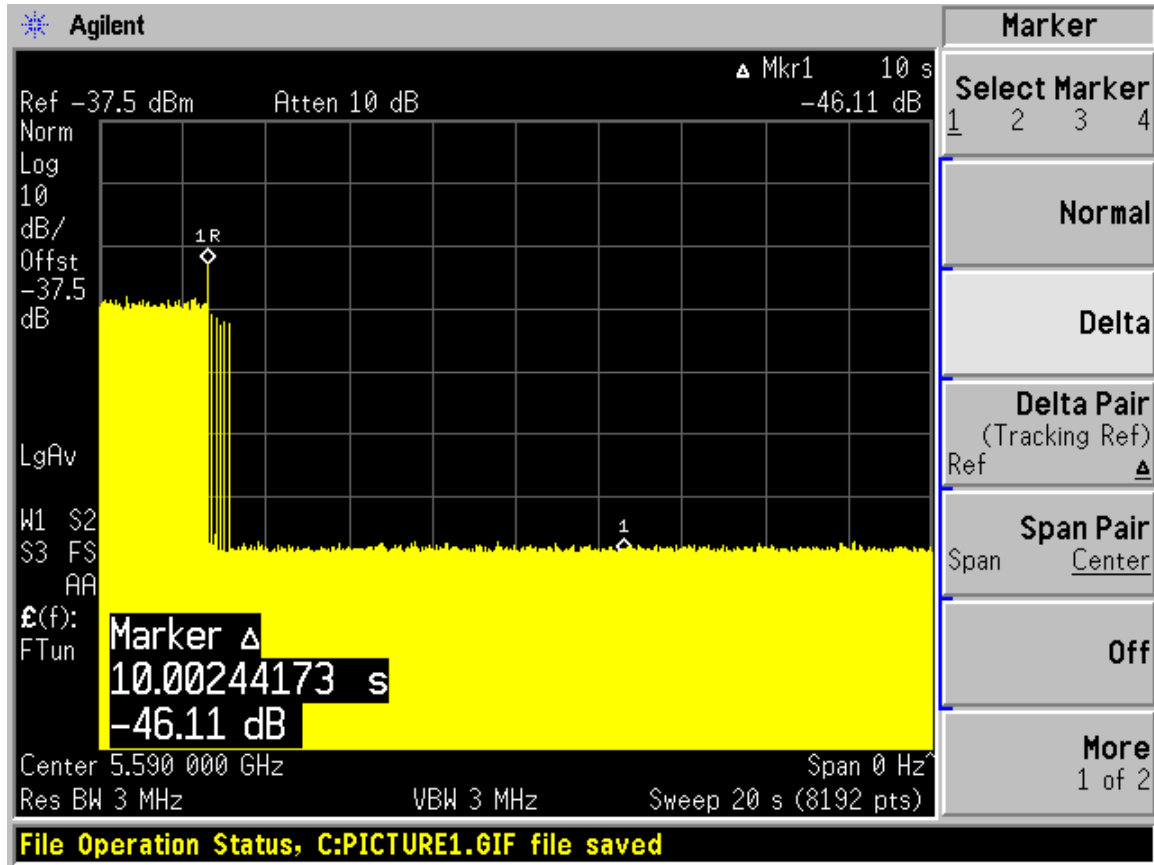
Type 5 radar channel move time result:

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



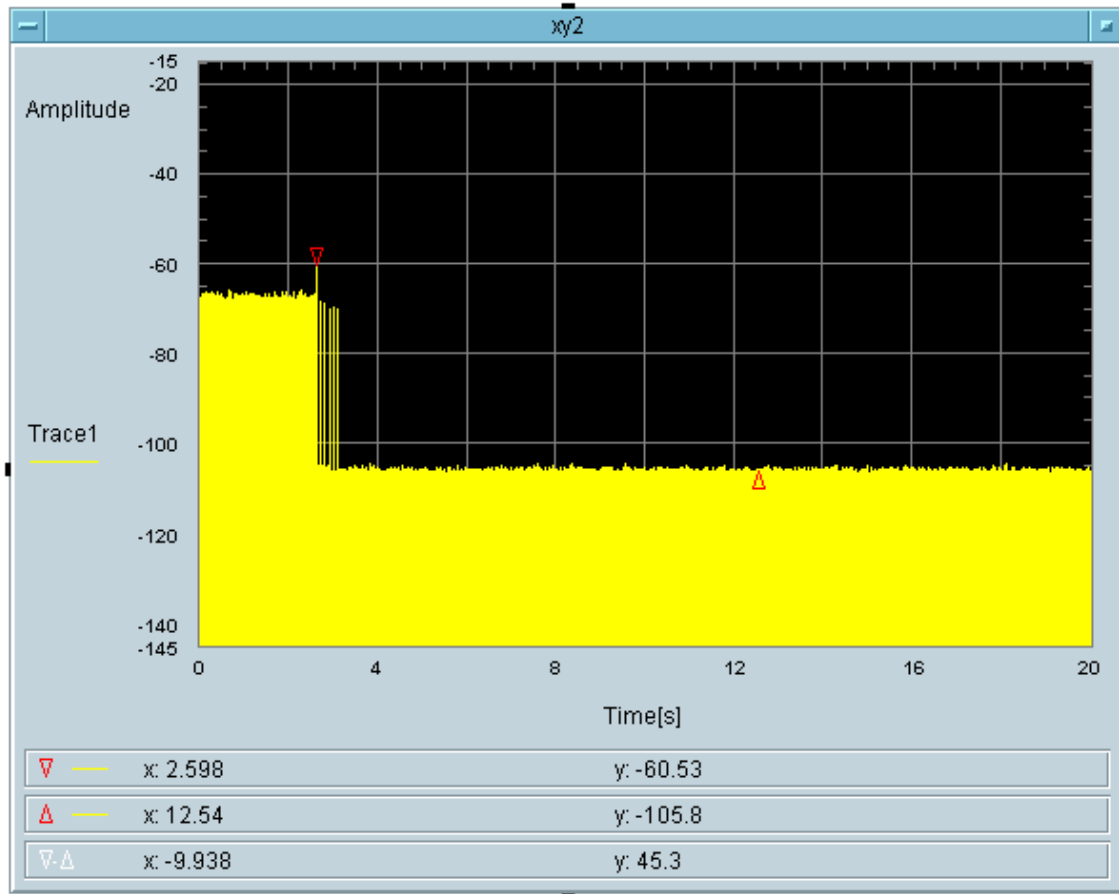
5590 MHz Bandwidth 40 MHz

Type 3 radar channel move time result:



Type3 radar channel closing transmission time result:

Aggregate Transmission Time (ms)	Limit (ms)	Margin (ms)
7.324	60	52.676

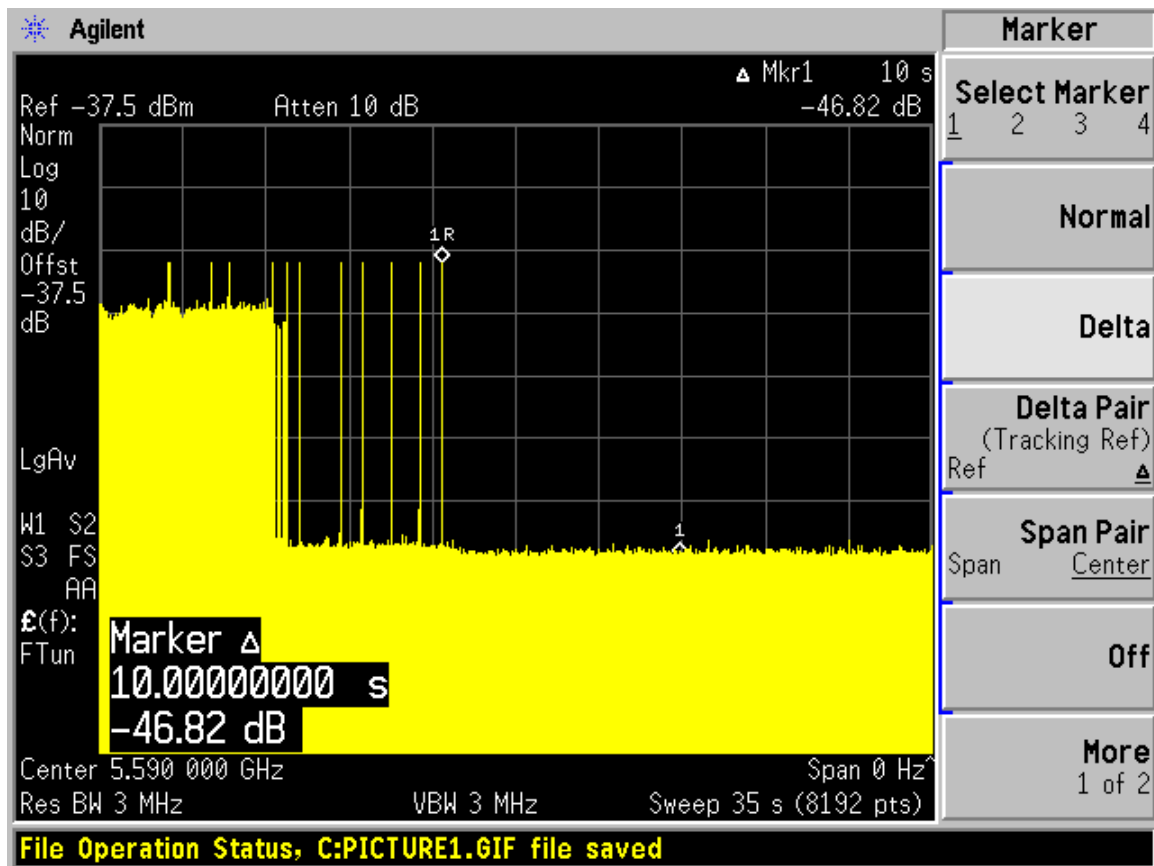


Total On Time [s]
14.65m

Total On Time After Delay [s]
7.324m

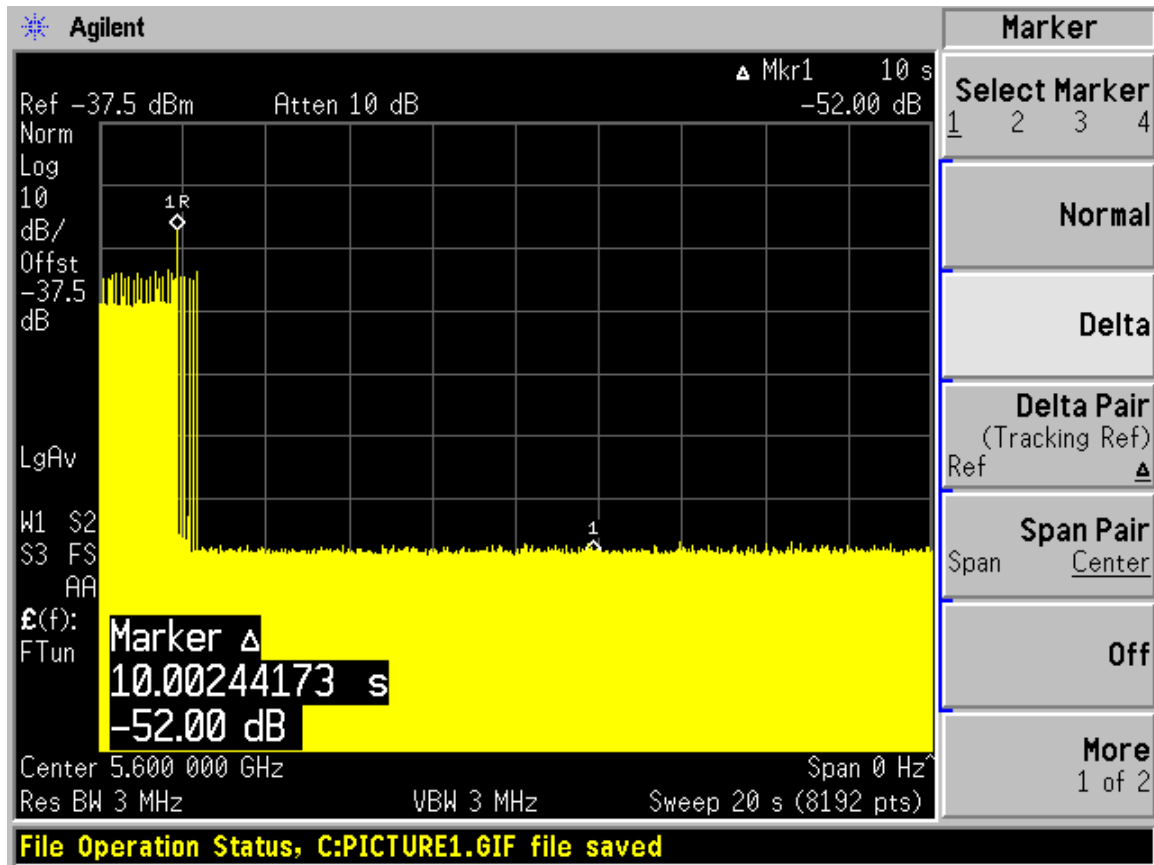
Type 5 radar channel move time result:

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



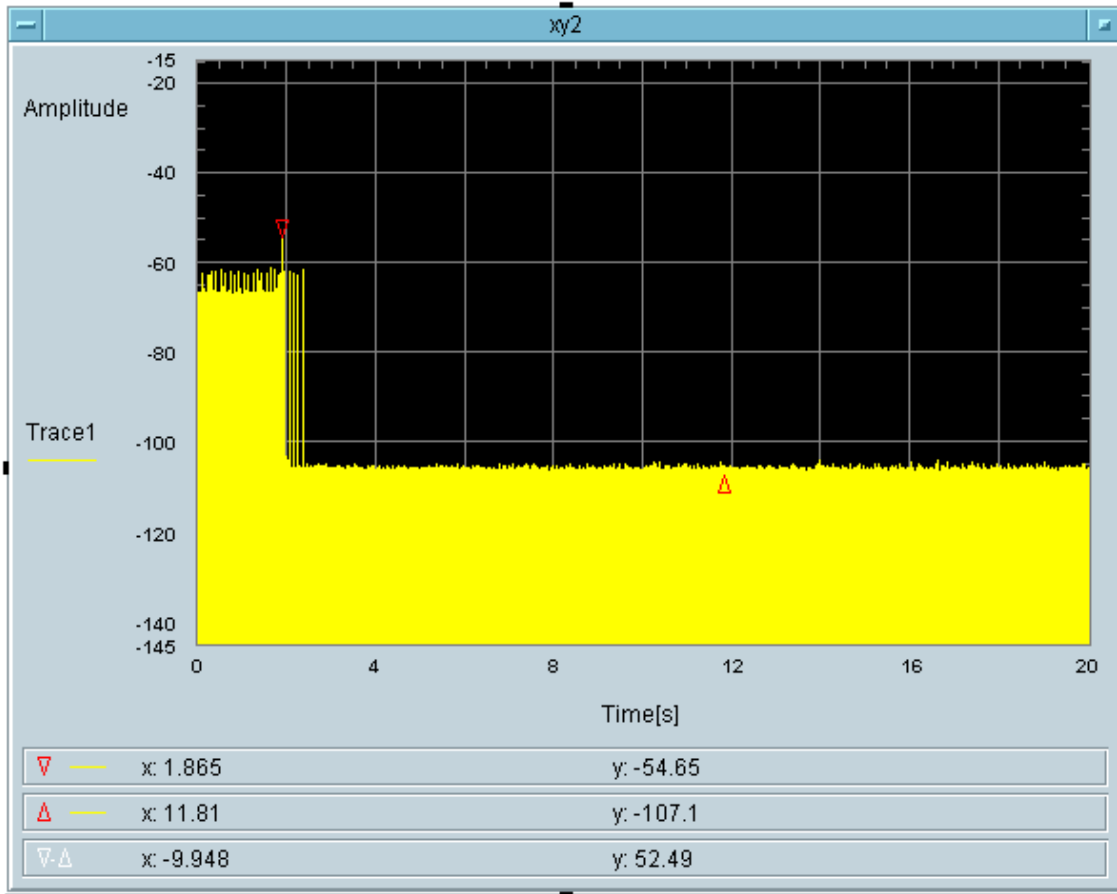
5600 MHz Bandwidth 20 MHz

Type 4 radar channel move time result:



Type4 radar channel closing transmission time result:

Aggregate Transmission Time (ms)	Limit (ms)	Margin (ms)
7.324	60	52.676

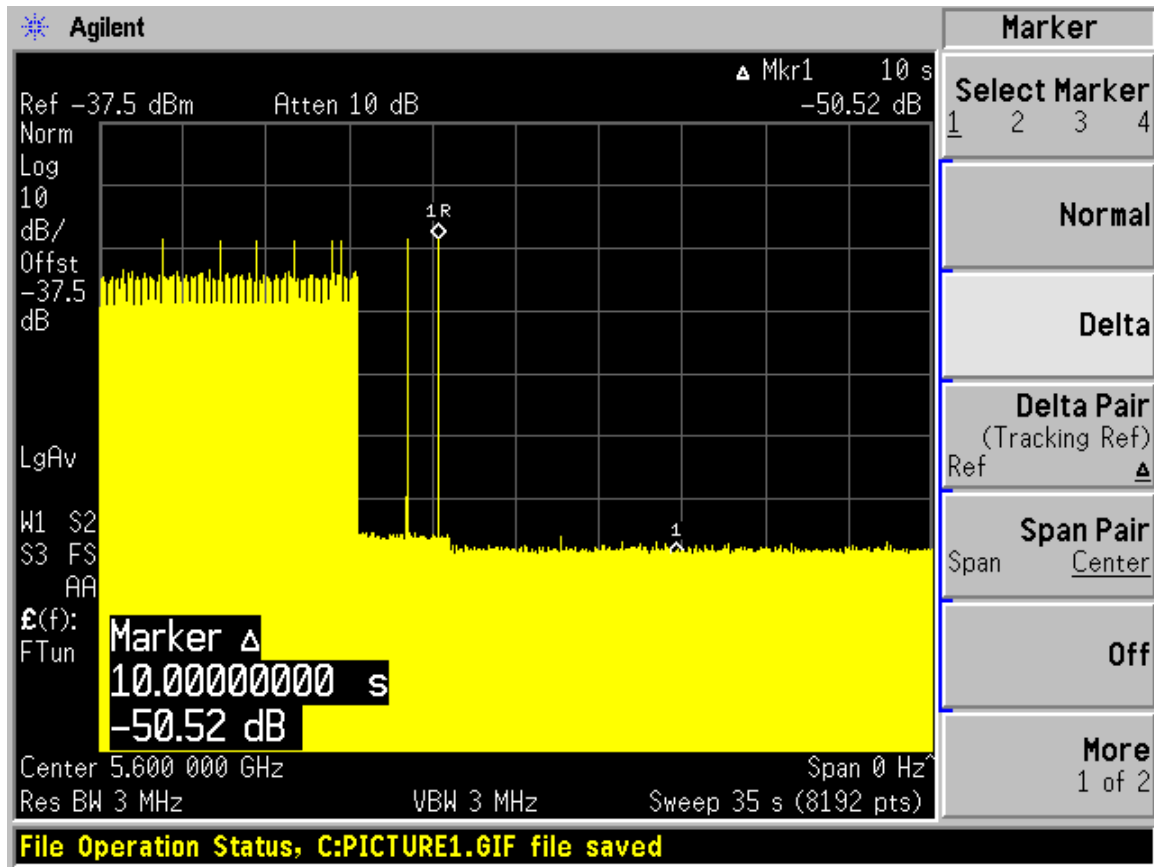


Total On Time [s]
14.65m

Total On Time After Delay [s]
7.324m

Type 5 radar channel move time result:

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



Non-Occupancy Period

Test Procedure

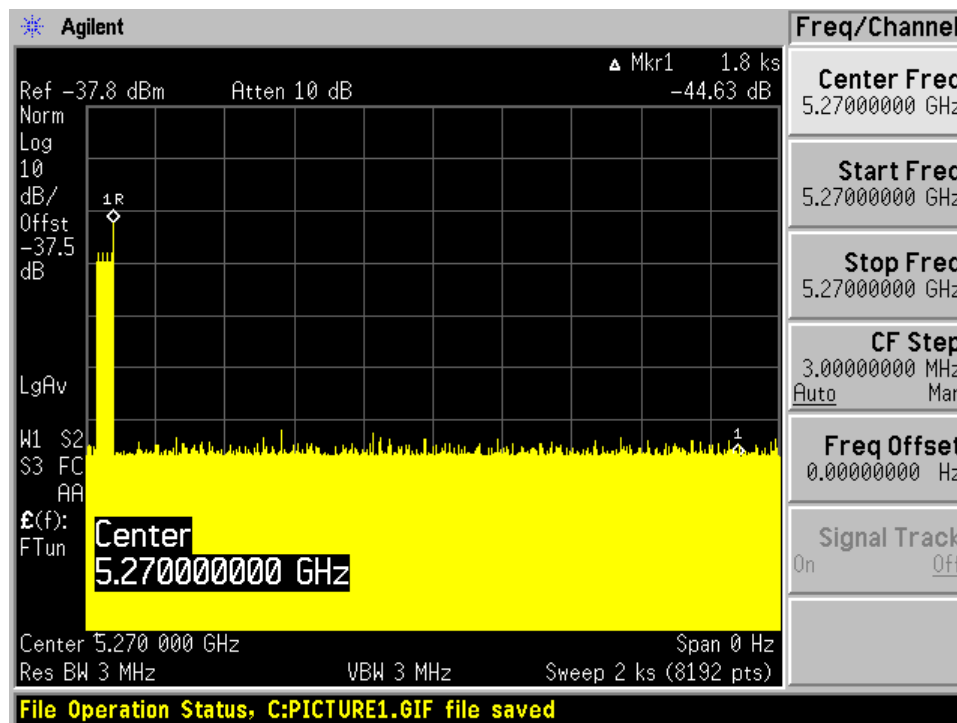
Measure the EUT for more than 30 minutes following the channel close/move time to verify that the EUT does not resume any transmissions on this channel. Provide one plot to demonstrate no transmission on the channel for the non-occupancy period (30 minutes observation time)

Results:

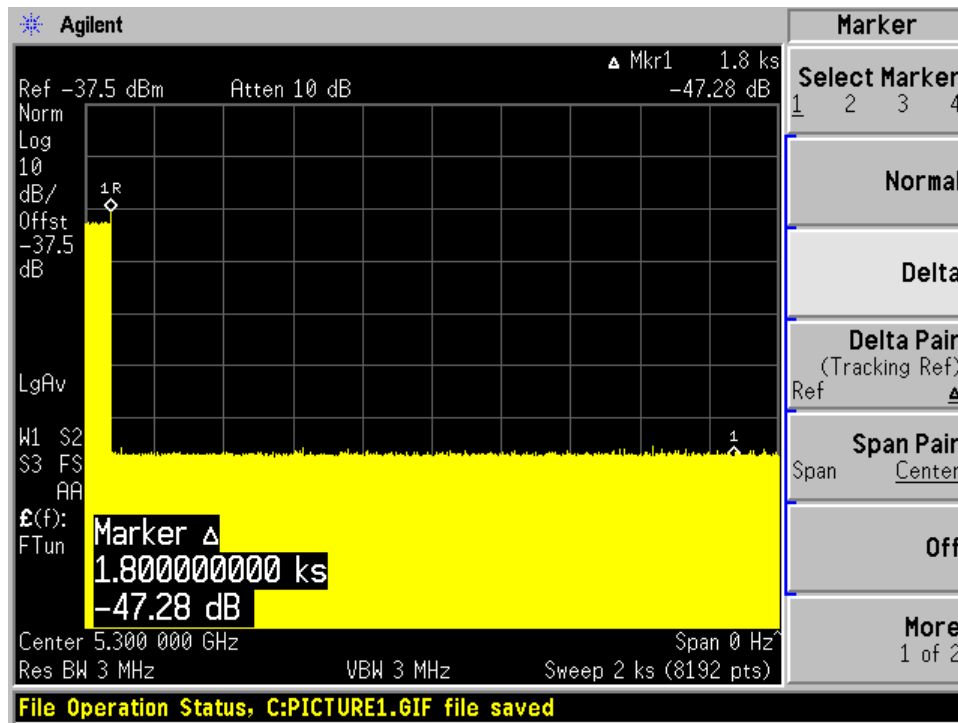
Frequency (MHz)	Bandwidth (MHz)	Spectrum Analyzer Display
5270	40	No transmission within 30 minutes
5300	20	No transmission within 30 minutes
5590	40	No transmission within 30 minutes
5600	20	No transmission within 30 minutes

Please refer to the following plots.

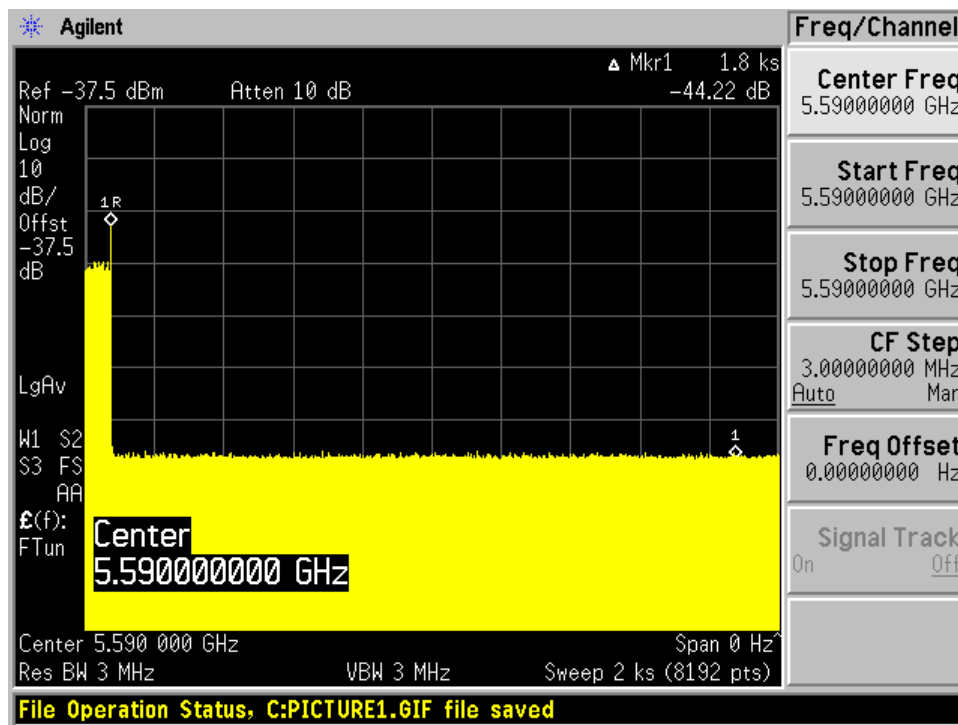
5270 MHz Bandwidth 40 MHz



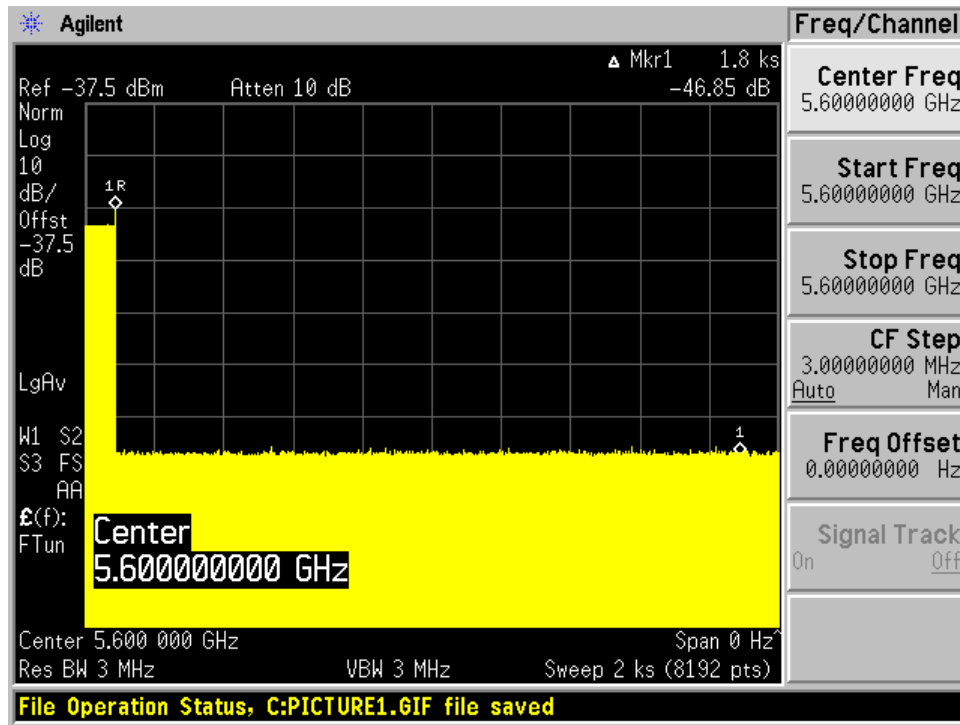
5300 MHz Bandwidth 20 MHz



5590 MHz Bandwidth 40 MHz



5600 MHz Bandwidth 20 MHz



Detection Bandwidth

Procedure:

Performed with any one of the short pulse radar waveforms (type 1, 2, 3 or 4)

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

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

Increment radar generator frequency by 1 MHz and repeat

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

Continue incrementing the radar frequency until detection rate falls below 90%

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

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

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

UNII Detection Bandwidth = $F_H - F_L$

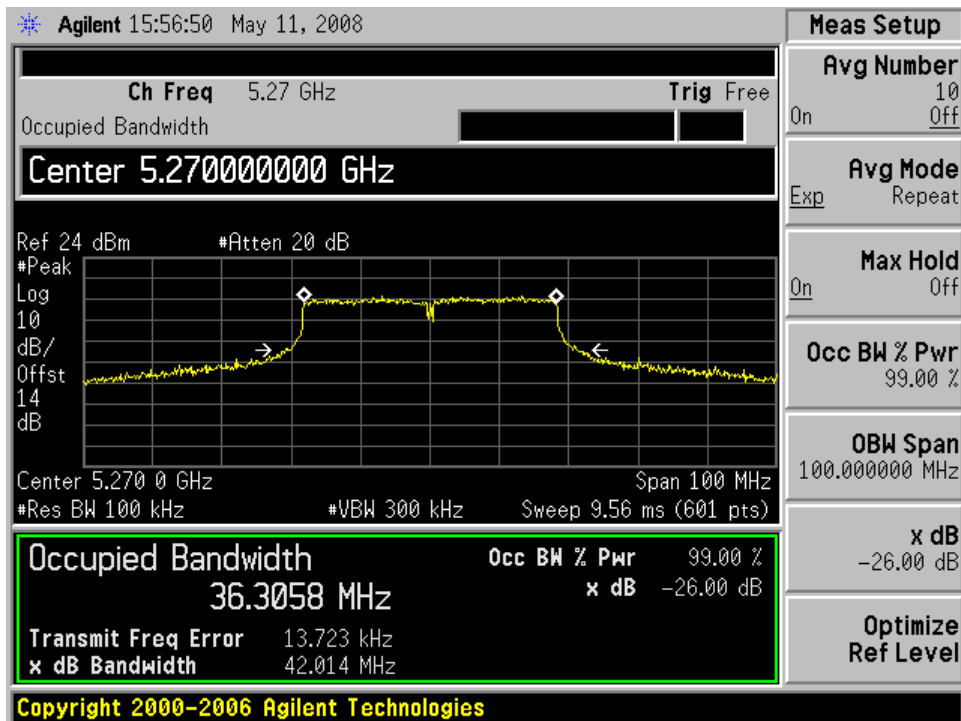
Result:

Frequency (MHz)	F_L (MHz)	F_H (MHz)	Detection Bandwidth (MHz)	99% Bandwidth (MHz)	Ratio of Detection BW to 99% BW	Minimum Limit	Result
5270	5250	5290	40	36.3058	110.18%	80%	Compliance
5300	5290	5309	19	17.7034	107.32%	80%	Compliance
5590	5570	5610	40	36.4463	109.75%	80%	Compliance
5600	5590	5609	19	18.7996	101.07%	80%	Compliance

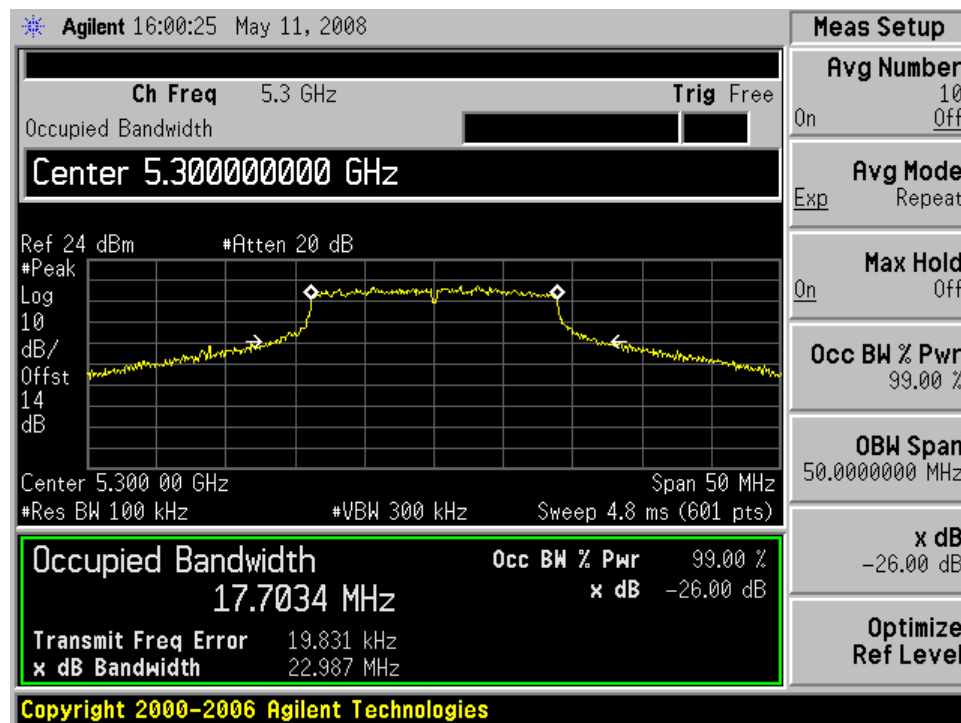
Please refer to the following tables and plots.

Plots for 99% Bandwidth:

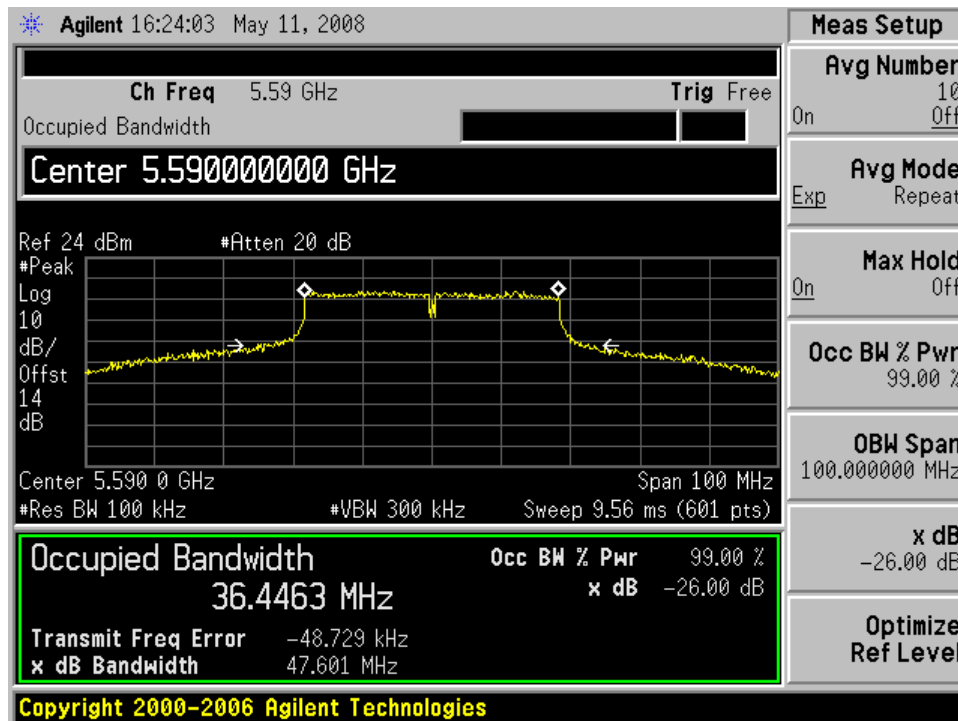
5270 MHz



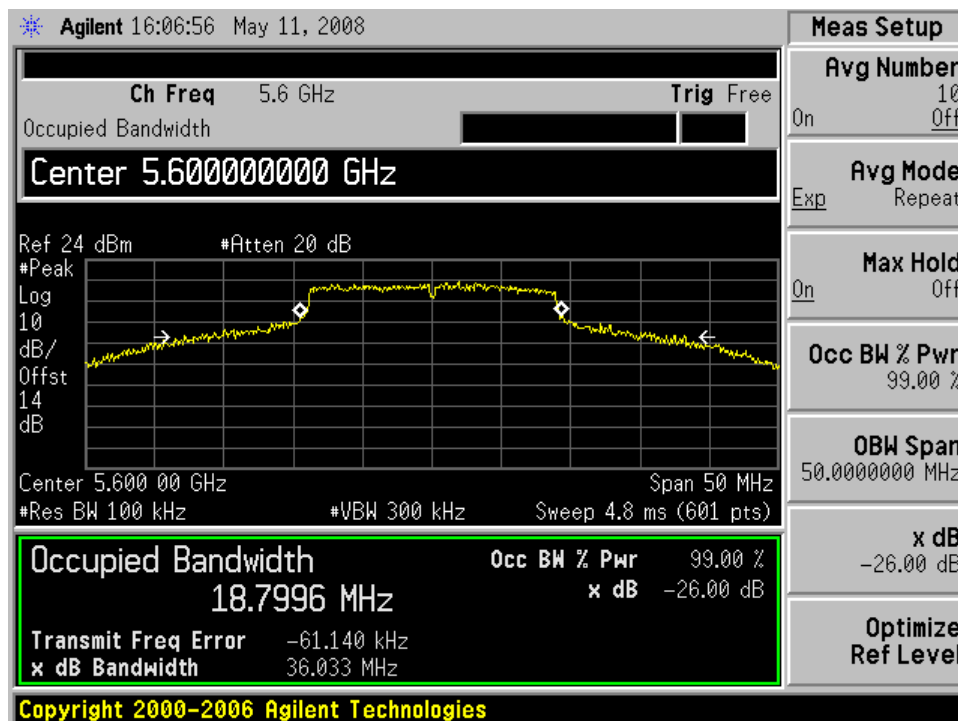
5300 MHz



5590 MHz



5600 MHz



Results of Detection Bandwidth:

EUT Frequency = 5270 MHz											
DFS Detection Trials (1 = Detected, Blank = No Detected)											
Radar Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5248	0	0	0	0	0	0	0	0	0	0	0%
5249	0	0	0	0	0	0	1	0	0	0	10 %
5250(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5252	1	1	1	1	1	1	1	1	1	1	100 %
5254	1	1	1	1	1	1	1	1	1	1	100 %
5256	1	1	1	1	1	1	1	1	1	1	100 %
5258	1	1	1	1	1	1	1	1	1	1	100 %
5260	1	1	1	1	1	1	1	1	1	1	100 %
5262	1	1	1	1	1	1	1	1	1	1	100 %
5264	1	1	1	1	1	1	1	1	1	1	100 %
5266	1	1	1	1	1	1	1	1	1	1	100 %
5268	1	1	1	1	1	1	1	1	1	1	100 %
5270(F _c)	1	1	1	1	1	1	1	1	1	1	100 %
5272	1	1	1	1	1	1	1	1	1	1	100 %
5274	1	1	1	1	1	1	1	1	1	1	100 %
5276	1	1	1	1	1	1	1	1	1	1	100 %
5278	1	1	1	1	1	1	1	1	1	1	100 %
5280	1	1	1	1	1	1	1	1	1	1	100 %
5282	1	1	1	1	1	1	1	1	1	1	100 %
5284	1	1	1	0	1	1	1	1	1	1	90 %
5286	1	1	1	1	1	1	1	1	1	1	100 %
5288	1	1	1	1	1	1	1	1	1	1	100 %
5290(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5291	0	0	1	0	0	0	0	0	0	1	20 %
5292	0	0	0	0	0	0	0	0	0	0	0%
Detection Bandwidth = F _H - F _L = 5290-5250 = 40 MHz											
EUT 99% BW = 36.3058 MHz; 36.3058 * 80% = 29.0446MHz										Result: Pass	

EUT Frequency = 5300MHz												
DFS Detection Trials (1 = Detected, Blank = No Detected)												
Radar Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)	
5249	0	0	0	0	0	0	0	0	0	0	0%	
5290(F_L)	1	1	1	1	1	1	1	1	0	1	90%	
5291	1	1	1	1	1	1	1	1	1	1	100 %	
5292	1	1	1	1	1	1	1	1	1	1	100 %	
5293	1	1	1	1	1	1	1	1	1	1	100 %	
5294	1	1	1	1	1	1	1	1	1	1	100 %	
5295	1	1	1	1	1	1	1	1	1	1	100 %	
5296	1	1	1	1	1	1	1	1	1	1	100 %	
5297	1	1	1	1	1	1	1	1	1	1	100 %	
5298	1	1	1	1	1	1	1	1	1	1	100 %	
5299	1	1	1	1	1	1	1	1	1	1	100 %	
5300 (F _c)	1	1	1	1	1	1	1	1	1	1	100 %	
5301	1	1	1	1	1	1	1	1	1	1	100 %	
5302	1	1	1	1	1	1	1	1	1	1	100 %	
5303	1	1	1	1	1	1	1	1	1	1	100 %	
5304	1	1	1	1	1	1	1	1	1	1	100 %	
5305	1	1	1	1	1	1	1	1	1	1	100 %	
5306	1	1	1	1	1	1	1	1	1	1	100 %	
5307	1	1	1	1	1	1	1	1	1	1	100 %	
5308	1	1	1	1	1	1	1	1	1	1	100 %	
5309(F_H)	1	1	1	1	1	1	1	1	1	1	100 %	
5310	1	1	1	0	1	1	0	0	1	1	70 %	
Detection Bandwidth = F_H – F_L = 5309-5290 = 19 MHz												
EUT 99% BW = 17.7034 MHz; 17.7034 * 80% = 14.1627 MHz									Result:			Pass

EUT Frequency = 5590 MHz											
DFS Detection Trials (1 = Detected, Blank = No Detected)											
Radar Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5568	0	0	0	0	0	0	0	0	0	0	0%
5569	1	0	0	0	0	0	0	0	0	0	10 %
5570(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5572	1	1	1	1	1	1	1	1	1	1	100 %
5574	1	1	1	1	1	1	1	1	1	1	100 %
5576	1	1	1	1	1	1	1	1	1	1	100 %
5578	1	1	1	1	1	1	1	1	1	1	100 %
5580	1	1	1	1	1	1	1	1	1	1	100 %
5582	1	1	1	1	1	1	1	1	1	1	100 %
5584	1	1	1	1	1	1	1	1	1	1	100 %
5586	1	1	1	1	1	1	1	1	1	1	100 %
5588	1	1	1	1	1	1	1	1	1	1	100 %
5590 (F _c)	1	1	1	1	1	1	1	1	1	1	100 %
5592	1	1	1	1	1	1	1	1	1	1	100 %
5594	1	1	1	1	1	1	1	1	1	1	100 %
5596	1	1	1	1	1	1	1	1	1	1	100 %
5598	1	1	1	1	1	1	1	1	1	1	100 %
5600	1	1	1	1	1	1	1	1	1	1	100 %
5602	1	1	1	1	1	1	1	1	1	1	100 %
5604	1	1	1	1	1	1	1	1	1	1	100%
5606	1	1	1	1	1	1	1	1	1	1	100 %
5608	1	1	1	1	1	1	1	1	1	1	100 %
5610(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5611	0	0	0	0	0	0	0	0	0	0	0%
5612	0	0	0	0	0	0	0	0	0	0	0%
Detection Bandwidth = F_H – F_L = 5610-5570 = 40 MHz											
EUT 99% BW = 36.4463 MHz; 36.4463 * 80% = 29.1570MHz										Result: Pass	

EUT Frequency = 5300MHz											
DFS Detection Trials (1 = Detected, Blank = No Detected)											
Radar Frequency (MHz)	1	2	3	4	5	6	7	8	9	10	Detection Rate (%)
5589	0	0	0	0	0	0	0	0	0	0	0%
5590(F_L)	1	1	1	1	1	1	1	1	0	1	90%
5591	1	1	1	1	1	1	1	1	1	1	100 %
5592	1	1	1	1	1	1	1	1	1	1	100 %
5593	1	1	1	1	1	1	1	1	1	1	100 %
5594	1	1	1	1	1	1	1	1	1	1	100 %
5595	1	1	1	1	1	1	1	1	1	1	100 %
5596	1	1	1	1	1	1	1	1	1	1	100 %
5597	1	1	1	1	1	1	1	1	1	1	100 %
5598	1	1	1	1	1	1	1	1	1	1	100 %
5599	1	1	1	1	1	1	1	1	1	1	100 %
5600 (F _c)	1	1	1	1	1	1	1	1	1	1	100 %
5601	1	1	1	1	1	1	1	1	1	1	100 %
5602	1	1	1	1	1	1	1	1	1	1	100 %
5603	1	1	1	1	1	1	1	1	1	1	100 %
5604	1	1	1	1	1	1	1	1	1	1	100 %
5605	1	1	1	1	1	1	1	1	1	1	100 %
5606	1	1	1	1	1	1	1	1	1	1	100 %
5607	1	1	1	1	1	1	1	1	1	1	100 %
5608	1	1	1	1	1	1	1	1	1	1	100 %
5609(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5610	1	1	1	0	1	1	0	0	1	1	70 %
Detection Bandwidth = F _H – F _L = 5609-5590 = 19 MHz											
EUT 99% BW = 18.7996 MHz; 18.7996 * 80% = 15.0397 MHz									Result: Pass		

In-Service Monitoring

Procedure:

Stream MPEG file from master to slave

Generate radar waveform

Record whether or not the waveform was detected

At least 30 trials are applied for each radar type

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

Perform with each of the radar types 1-6

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

Type 1, 2, 3, 4: 60% each

Type 5: 80%

Type 6: 70%

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

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

Result:

5270 MHz

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1	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	93.3 %	70%	Pass

Please refer to the following statistical tables:

Table-1 Radar Type 1 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5270	18	1	1428	1
2	5270	18	1	1428	1
3	5270	18	1	1428	1
4	5270	18	1	1428	1
5	5270	18	1	1428	1
6	5270	18	1	1428	1
7	5270	18	1	1428	1
8	5270	18	1	1428	1
9	5270	18	1	1428	1
10	5270	18	1	1428	1
11	5270	18	1	1428	1
12	5270	18	1	1428	1
13	5270	18	1	1428	1
14	5270	18	1	1428	1
15	5270	18	1	1428	1
16	5270	18	1	1428	1
17	5270	18	1	1428	1
18	5270	18	1	1428	1
19	5270	18	1	1428	1
20	5270	18	1	1428	1
21	5270	18	1	1428	1
22	5270	18	1	1428	1
23	5270	18	1	1428	1
24	5270	18	1	1428	1
25	5270	18	1	1428	1
26	5270	18	1	1428	1
27	5270	18	1	1428	1
28	5270	18	1	1428	1
29	5270	18	1	1428	1
30	5270	18	1	1428	1
Detection Percentage: 100 % (>60%)					

Table-2 Radar Type 2 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5270	24	3.7	224	1
2	5270	24	1.2	179	1
3	5270	23	2.2	167	1
4	5270	25	1.5	152	1
5	5270	23	3.6	163	1
6	5270	29	2.5	159	1
7	5270	28	3.1	195	1
8	5270	28	4.4	200	1
9	5270	26	1.9	152	1
10	5270	23	3.6	220	1
11	5270	29	3.5	204	1
12	5270	29	1.7	223	1
13	5270	25	3.8	151	1
14	5270	27	5	200	1
15	5270	29	2.9	205	1
16	5270	27	4.6	193	1
17	5270	29	4.6	163	1
18	5270	25	2	185	1
19	5270	28	4.8	204	1
20	5270	24	4.1	153	1
21	5270	24	2.6	193	1
22	5270	29	4.4	182	1
23	5270	23	2.6	157	1
24	5270	28	2.7	229	1
25	5270	27	1.9	195	1
26	5270	26	3.8	210	1
27	5270	28	4.2	191	1
28	5270	23	3.5	206	1
29	5270	26	1.6	230	1
30	5270	28	4.3	190	1
Detection Percentage: 100 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5270	17	9.5	362	1
2	5270	18	7.5	273	1
3	5270	17	7.3	401	1
4	5270	16	6.3	315	1
5	5270	18	7.3	444	1
6	5270	18	9.3	437	1
7	5270	16	6.8	457	1
8	5270	18	8.6	414	1
9	5270	18	9.1	287	1
10	5270	16	6.3	316	1
11	5270	16	7.8	253	1
12	5270	18	7	220	1
13	5270	18	8.5	367	1
14	5270	16	7.3	262	1
15	5270	18	6.4	480	1
16	5270	16	8.4	344	1
17	5270	17	9.4	486	1
18	5270	17	9.3	242	1
19	5270	17	6.9	266	1
20	5270	16	9.3	325	1
21	5270	16	8.6	206	1
22	5270	17	6.1	441	1
23	5270	16	10	372	1
24	5270	17	8.1	386	1
25	5270	16	7.1	430	1
26	5270	18	9.4	444	1
27	5270	18	7.9	453	1
28	5270	16	6.1	468	1
29	5270	17	8.1	221	1
30	5270	18	7.9	433	1
Detection Percentage: 100 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5270	13	17.9	440	1
2	5270	14	11.3	466	1
3	5270	12	18.9	327	1
4	5270	12	11.6	409	1
5	5270	15	15.6	362	1
6	5270	12	14.4	364	1
7	5270	15	15.8	431	1
8	5270	14	18.9	320	1
9	5270	16	13.3	467	1
10	5270	15	19.3	267	1
11	5270	15	18.9	353	1
12	5270	12	14.8	433	1
13	5270	15	17.5	280	1
14	5270	15	18.4	217	1
15	5270	14	16.5	332	1
16	5270	12	18.4	215	1
17	5270	12	14.9	402	1
18	5270	13	18.8	231	1
19	5270	15	18.3	212	1
20	5270	14	11	302	1
21	5270	12	16.7	208	1
22	5270	16	18.6	381	1
23	5270	16	11.2	493	1
24	5270	13	15.7	463	1
25	5270	12	17	388	1
26	5270	16	14.8	479	1
27	5270	15	18.4	454	1
28	5270	12	17.6	209	1
29	5270	16	12.1	389	1
30	5270	14	13.8	499	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	13	81.1	1967		0.888487	1
1	2	14	77.6	1239		0.943146	
2	2	14	88.3	1011		2.166669	
3	2	20	90	1740		3.662758	
4	2	17	76.6	1836		4.227233	
5	2	18	90	1566		5.432102	
6	2	8	74.4	1894		6.278846	
7	3	6	82	1440	1089	6.646424	
8	2	17	70.2	1313		7.45199	
9	2	19	62.2	1616		8.899722	
10	2	9	55.1	1909		9.640977	
11	3	15	85.3	1655	1918	10.6826	
12	2	16	93.3	1835		11.47469	

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	9	75.4	1932		0.514811	1
1	2	19	64.7	1543		0.929848	
2	3	13	58.2	1126	1957	1.808595	
3	2	11	79.8	1077		2.519127	
4	2	18	69.8	1667		3.146626	
5	2	11	76.8	1454		3.878598	
6	2	8	56.4	1706		4.161484	
7	2	6	66.7	1756		5.192398	
8	3	19	79.7	2000	1655	5.417767	
9	2	14	92.4	1863		6.035103	
10	3	19	88.2	1295	1917	7.106006	
11	3	19	85.8	1743	1637	7.868303	
12	2	17	84.7	1584		8.600491	
13	2	10	90.1	1196		9.092238	
14	1	18	86.5			9.692957	
15	2	10	88.9	1615		10.13817	
16	3	7	60.5	1869	1039	10.98103	
17	2	5	88.6	1871		11.6145	

Bin5 Statistics 3

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	13	91.3	1511		0.838567	1
1	1	14	64.9			2.52278	
2	1	11	52.9			2.997714	
3	1	17	62.3			4.110077	
4	3	16	66.5	1477	1731	6.303529	
5	3	17	61	1920	1707	6.998156	
6	2	18	74.5	1373		8.200829	
7	3	20	92.3	1846	1216	9.944165	
8	3	18	96.3	1003	1463	11.67406	

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	61.1	1548		0.27271	1
1	2	12	86.3	1911		2.614302	
2	1	7	54.3			3.104027	
3	3	13	93	1352	1962	4.968758	
4	2	10	79.8	1309		5.607324	
5	2	8	65.6	1602		7.405277	
6	1	14	91.3			8.968687	
7	2	11	61.3	1088		10.57305	
8	1	8	72.9			11.69415	

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	12	81.5	1408		0.313292	0
1	2	11	54.4	1529		1.189908	
2	1	12	93.5			2.248611	
3	2	13	51.2	1928		2.657393	
4	3	6	60.8	1289	1742	4.274385	
5	2	8	92	1306		4.596332	
6	2	12	79.1	1147		5.544342	
7	3	16	65	1850	1547	6.36214	
8	2	16	72.6	1755		7.284712	
9	3	15	69.3	1818	1491	8.471913	
10	2	8	80.3	1971		9.29372	
11	3	20	80.4	1530	1495	10.01545	
12	2	16	83.5	1110		10.6585	
13	2	17	57	1942		11.46966	

Bin5 Statistics 6

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	16	59	1020		0.477777	1
1	1	19	67.4			0.877289	
2	2	9	66.7	1847		2.149407	
3	1	12	68.2			3.331099	
4	1	10	82.3			3.650505	
5	3	12	70.5	1065	1059	4.353884	
6	2	19	86.1	1302		5.688527	
7	1	7	58.2			6.065956	
8	2	8	87.5	1030		7.388762	
9	1	12	84			8.323887	
10	1	9	57.7			8.92252	
11	3	6	63.2	1936	1358	9.862392	
12	2	7	86.8	1638		10.86387	
13	2	12	68.8	1400		11.76818	

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	18	59.9			0.849335	0
1	1	13	95.4			1.977696	
2	3	6	69.5	1238	1168	2.342336	
3	3	19	68.4	1305	1318	4.333917	
4	2	18	72.5	1514		4.58376	
5	1	12	76			5.633336	
6	2	14	68.8	1815		7.314886	
7	3	12	93.8	1029	1784	8.633118	
8	1	15	67			9.445562	
9	2	13	87.6	1708		10.59033	
10	3	6	92.5	1453	1109	11.27083	

Bin5 Statistics 8

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	15	50.5			0.417819	1
1	2	6	73.5	1371		1.168846	
2	3	7	50.1	1064	1045	1.561334	
3	2	12	92.5	1703		1.976501	
4	3	17	93.2	1868	1029	2.833348	
5	3	18	75.2	1708	1526	3.034968	
6	1	10	93.9			3.676511	
7	1	9	53.2			4.782083	
8	3	13	85.7	1680	1379	5.083051	
9	2	6	55.2	1096		5.427996	
10	1	7	79.5			6.37891	
11	2	14	55.5	1340		6.908978	
12	2	6	81.5	1161		7.374123	
13	3	9	51	1583	1912	7.950873	
14	2	11	52.1	1047		8.951009	
15	2	9	86.9	1215		9.202768	
16	2	8	65	1221		9.738224	
17	2	11	65.9	1243		10.42093	
18	3	7	95.2	1585	1097	11.05049	
19	3	16	72.4	1382	1404	11.42796	

Bin5 Statistics 9

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	11	52.8			0.317566	1
1	2	7	71.7	1399		1.074511	
2	2	7	55.4	1091		1.883094	
3	3	18	98.5	1764	1836	2.888944	
4	3	18	79.6	1163	1891	3.703572	
5	2	16	56.7	1241		4.029204	
6	2	12	92.2	1366		4.7181	
7	1	11	70.9			5.569297	
8	2	12	65.4	1092		6.695395	
9	2	8	76.8	1437		6.770854	
10	3	17	67.7	1384	1550	8.027793	
11	3	12	90.7	1391	1887	8.603886	
12	1	8	95.9			9.093408	
13	3	16	81	1733	1634	9.767492	
14	3	14	96.4	1144	1428	11.17215	
15	3	8	88	1011	1396	11.8966	

Bin5 Statistics 10

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	15	53.7	1894	1678	0.426692	1
1	1	11	78.3			0.766391	
2	3	13	89.8	1535	1227	1.335216	
3	3	10	77.2	1682	1730	2.14045	
4	1	9	66			3.086615	
5	2	10	83.5	1701		3.240215	
6	3	7	85.3	1175	1162	3.925276	
7	2	5	72.1	1579		4.478669	
8	2	17	73.8	1507		5.636796	
9	2	16	52.9	1168		5.79568	
10	2	8	66.1	1048		6.527347	
11	2	15	63.3	1113		7.446558	
12	1	6	54.6			7.810827	
13	2	19	75.1	1707		8.345444	
14	1	10	72.5			9.390171	
15	1	12	63.9			9.546268	

16	3	20	98.7	1039	1674	10.69268	
17	3	16	82.5	1263	1159	10.94808	
18	1	6	77.8			11.41109	

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	8	80.6	1578		0.003016	1
1	2	16	95.4	1014		0.900158	
2	2	11	91.1	1236		1.456198	
3	2	18	56.8	1029		1.953016	
4	3	13	97.8	1396	1725	2.602754	
5	2	15	55.2	1806		3.297765	
6	2	14	87.6	1179		4.201731	
7	3	9	68.8	1387	1385	4.853029	
8	2	6	92.5	1011		5.672958	
9	1	10	88.2			5.986602	
10	2	18	88.4	1454		6.743932	
11	1	15	63			7.458941	
12	1	11	96.2			7.93454	
13	3	13	72.1	1342	1275	8.299479	
14	2	16	94.6	1150		9.33066	
15	2	14	78.4	1983		9.595939	
16	2	6	73.3	1432		10.7063	
17	2	8	89.5	1115		10.85001	
18	2	19	51.7	1265		11.95925	

Bin5 Statistics 12

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	7	96.1			0.177886	1
1	3	19	53.2	1900	1860	1.359739	
2	1	19	87.8			2.142829	
3	2	15	62.1	1181		2.818518	
4	2	16	78.1	1633		3.590712	
5	3	18	59.2	1102	1476	4.755367	
6	2	19	56.1	1891		5.850228	
7	1	19	76.9			6.333989	

8	3	9	51.5	1428	1536	7.30057	
9	1	20	70.4			7.914448	
10	3	5	51.4	1931	1979	8.642291	
11	2	5	64.5	1729		9.469178	
12	3	12	55.4	1966	1235	10.57817	
13	2	15	70.1	1125		11.88916	

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	20	55.7			0.651444	1
1	2	11	75.1	1381		1.766087	
2	3	16	98.2	1564	1530	2.923669	
3	1	18	83.3			3.66051	
4	3	9	76.9	1765	1117	5.211318	
5	2	10	73.5	1219		6.040042	
6	2	10	87.5	1583		7.428352	
7	3	15	51.4	1517	1455	7.768422	
8	3	11	64.8	1336	1928	9.533708	
9	2	19	54.5	1001		10.13382	
10	2	18	86.8	1941		11.08753	

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	17	78.6	1116		0.295261	0
1	2	16	98.3	1119		1.906332	
2	3	12	62.4	1960	1501	3.180203	
3	2	20	64.6	1758		3.81639	
4	3	15	73.1	1151	1653	5.07872	
5	1	12	70			6.13989	
6	1	12	61.1			6.828386	
7	3	13	66.4	1952	1147	7.746754	
8	1	18	71.5			9.760721	
9	1	8	77.4			9.871552	
10	2	18	82.6	1300		11.90048	

Bin5 Statistics 15

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	5	87.6	1976	1477	0.110595	1
1	3	18	70.5	1403	1049	1.200806	
2	2	19	59.1	1970		1.954392	
3	2	18	88.9	1193		3.549061	
4	3	9	80.5	1796	1204	4.122634	
5	1	19	94.4			4.83032	
6	1	17	98.4			6.367321	
7	2	11	82.7	1465		6.579538	
8	2	10	74.4	1951		7.43058	
9	3	6	78.5	1756	1224	8.632074	
10	2	15	62.3	1217		9.246638	
11	3	9	91	1433	1921	11.06473	
12	2	10	98.2	1031		11.51047	

Bin5 Statistics 16

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	8	69.7	1619		0.099245	1
1	1	6	57.1			1.103296	
2	2	16	76.4	1021		1.87067	
3	3	5	85.9	1183	1399	2.218244	
4	3	20	96.9	1035	1822	3.046389	
5	2	14	96.5	1613		3.565924	
6	2	14	64.4	1212		4.14301	
7	2	10	86.4	1076		4.433197	
8	1	15	76.3			5.504225	
9	2	16	61.2	1179		5.837546	
10	1	11	90.9			6.756707	
11	1	12	61.3			7.518848	
12	2	8	54.2	1432		7.656341	
13	3	13	89.5	1147	1900	8.649633	
14	1	6	74			9.297119	
15	2	18	60.2	1780		9.660829	
16	1	20	95.7			10.73089	
17	1	14	54			11.34752	
18	1	19	73.8			11.44487	

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	99.6	1269		0.586983	1
1	2	18	98.2	1268		0.859491	
2	3	12	66	1822	1607	1.66751	
3	2	12	76	1180		2.940157	
4	3	8	67.6	1442	1549	3.25133	
5	2	6	83.1	1850		4.338044	
6	2	14	97.1	1913		4.885558	
7	2	15	85.2	1646		5.993193	
8	2	7	60.3	1938		6.680194	
9	2	10	51.5	1535		6.977616	
10	2	19	91.1	1647		7.972511	
11	3	15	98.7	1802	1568	8.887039	
12	2	7	89.7	1345		9.345299	
13	2	19	68.2	1090		10.37846	
14	2	5	78.8	1810		11.06663	
15	2	5	78.8	1112		11.27555	

Bin5 Statistics 18

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	9	71.5	1982		0.870024	1
1	2	15	53.7	1800		1.064044	
2	2	18	80.2	1651		2.629903	
3	2	11	78.3	1536		3.175672	
4	3	8	66.2	1591	1706	4.532193	
5	2	10	88.3	1214		5.693217	
6	2	19	83.9	1113		6.809863	
7	2	17	68.8	1117		7.992628	
8	2	19	75.9	1380		8.783404	
9	2	9	63.7	1921		9.027297	
10	2	17	56.4	1486		10.67658	
11	2	14	76.9	1959		11.86422	

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	7	64.7	1453	1722	0.457922	1
1	2	20	73.2	1518		0.663348	
2	3	7	66.9	1006	1403	1.768804	
3	3	9	91.6	1550	1678	2.192103	
4	3	9	84	1971	1365	3.137762	
5	3	8	89.8	1345	1980	3.553617	
6	1	12	93.1			4.016789	
7	2	7	76.1	1586		4.719799	
8	1	11	77.2			5.211589	
9	1	20	60.4			5.69428	
10	2	6	99.6	1926		6.377809	
11	3	11	89.1	1691	1504	7.396837	
12	2	17	93.6	1949		8.184525	
13	2	9	64.9	1316		8.579451	
14	1	16	87.3			9.362963	
15	2	12	80.8	1297		10.03459	
16	1	10	56.1			10.60734	
17	3	12	76.6	1298	1622	11.2834	
18	3	9	65.4	1124	1722	11.49664	

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	59.8	1517		0.483951	1
1	3	6	82.7	1390	1752	1.403249	
2	3	20	57.5	1011	1567	2.383909	
3	2	12	58.9	1581		3.685675	
4	2	5	99.6	1132		3.827956	
5	1	16	59.8			5.106156	
6	2	18	50.1	1621		6.439094	
7	2	13	75.9	1729		7.170256	
8	3	7	86.3	1583	1738	7.717963	
9	1	16	77.4			8.771989	
10	1	5	54.4			9.454543	
11	2	20	82.7	1295		10.68222	
12	3	18	94.8	1812	1499	11.6627	

Bin5 Statistics 21

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	8	81			0.178128	1
1	1	12	53.7			0.969942	
2	2	7	55.2	1447		2.155911	
3	2	11	85	1811		3.18893	
4	2	6	96	1429		3.447373	
5	1	19	75.6			4.196051	
6	3	7	57.6	1822	1300	5.267757	
7	2	17	82.8	1025		5.747344	
8	3	11	66.4	1326	1676	6.40303	
9	2	8	62.4	1941		7.481995	
10	3	14	59.8	1483	1153	8.741723	
11	3	16	66.4	1611	1884	8.807033	
12	3	13	85	1260	1111	10.04764	
13	2	13	80.5	1248		10.40398	
14	2	14	88.1	1372		11.4039	

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	8	98.7	1617	1966	0.944088	1
1	2	13	77.3	1968		1.868297	
2	1	12	68.5			2.947545	
3	2	15	96.3	1761		3.174109	
4	3	16	99.8	1655	1485	4.59638	
5	3	12	54.5	1593	1666	5.521428	
6	1	8	73.1			6.22085	
7	3	11	88.4	1628	1158	7.290329	
8	2	20	69.9	1963		8.45868	
9	2	20	73.5	1486		9.563147	
10	2	11	71.2	1739		10.1752	
11	2	18	99.9	1366		11.95549	

Bin5 Statistics 23

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	17	69.1	1850	1257	0.584494	1
1	2	7	65	1390		0.706351	
2	1	20	95.4			1.484272	
3	2	15	90.3	1320		2.288861	
4	1	18	58.2			2.537473	
5	2	18	54.3	1459		3.765038	
6	1	17	64.3			4.397155	
7	2	18	67.3	1913		4.527926	
8	2	15	94.6	1662		5.224569	
9	2	15	88.5	1865		5.775273	
10	3	14	89.1	1146	1628	6.483563	
11	1	19	76			6.983703	
12	2	13	76	1311		8.01517	
13	1	8	77.9			8.339333	
14	3	13	68.1	1475	1108	9.412588	
15	2	8	51.9	1903		9.579112	
16	2	11	90.1	1339		10.44736	
17	2	12	67.6	1760		10.77429	
18	2	13	64	1980		11.47759	

Bin5 Statistics 24

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	7	86.2	1693	1925	0.828443	1
1	2	17	55	1770		1.14584	
2	1	20	75			2.549832	
3	3	10	94.3	1007	1826	3.322983	
4	2	8	59.1	1366		4.067803	
5	2	12	96	1078		5.568803	
6	3	13	53.5	1781	1228	6.87246	
7	1	6	82.1			7.583406	
8	2	19	79.9	1160		8.819362	
9	1	13	55			9.189123	
10	2	12	94.9	1031		10.65783	
11	2	8	79.9	1534		11.98721	

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	9	93.1	1760		0.533752	1
1	1	14	58.3			1.78595	
2	3	7	73.5	1165	1027	2.010549	
3	2	11	92.2	1223		2.917469	
4	1	12	92.3			4.414036	
5	1	12	72.8			5.198351	
6	2	17	96.1	1258		5.748452	
7	2	10	61.1	1945		7.160524	
8	3	10	93.8	1819	1545	7.811242	
9	2	5	61.4	1241		8.769187	
10	2	11	89.4	1293		9.634942	
11	2	18	82.5	1812		10.24878	
12	1	7	70.8			11.76825	

Bin5 Statistics 26

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	6	87.3	1686	1522	1.320916	1
1	2	15	75.7	1120		1.690192	
2	1	14	89.8			3.28169	
3	2	13	60.3	1693		4.721869	
4	1	8	93.4			5.612739	
5	1	6	82.6			7.085119	
6	3	16	88.3	1660	1827	8.565222	
7	2	7	81	1513		10.29695	
8	3	7	76.4	1045	1125	11.23634	

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	15	54	1651	1929	0.081224	1
1	2	20	64.7	1647		0.858717	
2	3	15	76.1	1362	1088	1.786909	
3	3	9	84.1	1229	1709	2.585765	
4	2	11	71.9	1029		3.925157	

5	2	20	50.7	1432		5.066942
6	2	16	50.2	1958		5.725713
7	3	17	59.7	1089	1344	6.237625
8	1	17	65.3			7.188661
9	3	10	92.2	1750	1507	8.172869
10	1	12	91.6			8.850491
11	2	18	81.1	1638		9.909204
12	3	11	85.5	1271	1218	10.69998
13	1	6	88.8			11.61265

Bin5 Statistics 28

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	14	69.5			0.727165	1
1	1	11	90.7			1.381295	
2	2	18	53.4	1507		1.621418	
3	2	20	71.1	1561		2.290098	
4	2	14	93.2	1292		3.345106	
5	1	6	83.4			3.778053	
6	2	10	61.7	1243		5.144815	
7	2	13	62.7	1108		5.539067	
8	2	10	63.7	1635		6.261916	
9	1	8	50.8			7.145019	
10	3	17	90.3	1198	1025	7.888786	
11	3	15	59.2	1934	1614	8.844113	
12	2	12	62.5	1268		9.134529	
13	2	20	82.2	1618		10.3974	
14	3	15	60.5	1471	1954	10.61284	
15	1	18	65.3			11.83788	

Bin5 Statistics 29

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	6	57.3	1511		0.321168	1
1	1	14	73			1.818846	
2	2	6	99	1578		2.93561	
3	2	10	55.3	1247		3.360834	
4	2	19	61.3	1735		5.222332	
5	2	11	95.6	1028		6.215709	
6	2	9	73.2	1836		7.464122	
7	2	20	58.3	1621		8.679553	
8	2	8	99.2	1338		9.001732	
9	2	6	90.2	1294		9.900858	
10	3	18	84	1803	1782	11.10718	

Bin5 Statistics 30

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	16	70.5	1323		0.915531	1
1	1	17	68.1			1.52058	
2	3	19	71.3	1307	1211	2.586073	
3	2	19	76.9	1758		3.049592	
4	3	9	91.3	1738	1584	4.096791	
5	3	20	67.7	1876	1900	5.255117	
6	2	11	82.3	1196		6.070304	
7	2	6	62.9	1818		7.179754	
8	2	16	73.6	1179		7.93859	
9	3	13	69.1	1453	1893	8.654515	
10	2	11	79.4	1381		10.01007	
11	2	17	97.5	1704		10.87041	
12	2	20	71.2	1762		11.51592	

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	5374.0, 5659.0, 5395.0, 5304.0, 5709.0, 5386.0, 5436.0, 5698.0, 5629.0, 5717.0, 5693.0, 5632.0, 5299.0, 5568.0, 5354.0, 5482.0, 5424.0, 5494.0, 5366.0, 5517.0, 5486.0, 5417.0, 5483.0, 5605.0, 5329.0, 5511.0, 5599.0, 5265.0, 5314.0, 5525.0, 5282.0, 5562.0, 5463.0, 5610.0, 5614.0, 5713.0, 5303.0, 5355.0, 5286.0, 5438.0, 5664.0, 5510.0, 5485.0, 5312.0, 5402.0, 5546.0, 5306.0, 5281.0, 5696.0, 5460.0, 5328.0, 5542.0, 5277.0, 5411.0, 5409.0, 5336.0, 5643.0, 5538.0, 5264.0, 5532.0, 5514.0, 5347.0, 5396.0, 5548.0, 5707.0, 5504.0, 5613.0, 5393.0, 5720.0, 5512.0, 5597.0, 5313.0, 5674.0, 5433.0, 5400.0, 5331.0, 5647.0, 5300.0, 5688.0, 5428.0, 5415.0, 5444.0, 5690.0, 5471.0, 5714.0, 5618.0, 5554.0, 5571.0, 5497.0, 5579.0, 5332.0, 5689.0, 5521.0, 5309.0, 5254.0, 5522.0, 5442.0, 5650.0, 5326.0, 5544.0 (number of hits: 7)
2	5270	9	1	333	1	5469.0, 5576.0, 5407.0, 5714.0, 5549.0, 5681.0, 5715.0, 5610.0, 5428.0, 5626.0, 5500.0, 5300.0, 5279.0, 5362.0, 5605.0, 5330.0, 5442.0, 5638.0, 5485.0, 5525.0, 5404.0, 5310.0, 5523.0, 5618.0, 5262.0, 5637.0, 5272.0, 5566.0, 5430.0, 5621.0, 5663.0, 5366.0, 5520.0, 5307.0, 5630.0, 5711.0, 5639.0, 5499.0, 5710.0, 5713.0, 5493.0, 5443.0, 5562.0, 5312.0, 5565.0, 5652.0, 5454.0, 5403.0, 5327.0, 5706.0, 5316.0, 5602.0, 5479.0, 5351.0, 5489.0, 5465.0, 5515.0, 5458.0, 5556.0, 5616.0, 5281.0, 5298.0, 5718.0, 5631.0, 5259.0, 5453.0, 5671.0, 5658.0, 5676.0, 5617.0, 5291.0, 5498.0, 5623.0, 5672.0, 5564.0, 5539.0, 5468.0, 5550.0, 5363.0, 5286.0, 5607.0, 5457.0, 5552.0, 5673.0, 5324.0, 5440.0, 5360.0, 5261.0, 5323.0, 5600.0, 5679.0, 5690.0, 5265.0, 5560.0, 5555.0, 5518.0, 5271.0, 5396.0, 5655.0, 5497.0 (number of hits: 9)
3	5271	9	1	333	1	5615.0, 5718.0, 5489.0, 5342.0, 5447.0, 5542.0, 5688.0, 5642.0, 5572.0, 5386.0, 5470.0, 5599.0, 5661.0, 5466.0, 5373.0, 5546.0, 5353.0, 5520.0, 5697.0, 5263.0, 5589.0, 5369.0, 5368.0, 5670.0, 5314.0, 5266.0, 5605.0, 5536.0, 5452.0, 5269.0, 5487.0, 5424.0, 5292.0, 5326.0, 5519.0, 5684.0, 5611.0, 5696.0, 5361.0, 5415.0, 5596.0, 5465.0, 5391.0, 5438.0, 5279.0, 5343.0, 5471.0, 5400.0, 5258.0, 5590.0, 5443.0, 5439.0, 5377.0, 5723.0, 5307.0, 5695.0, 5264.0, 5550.0, 5322.0, 5566.0, 5565.0, 5583.0, 5675.0, 5501.0, 5490.0, 5464.0, 5287.0, 5418.0, 5308.0, 5296.0, 5715.0, 5637.0, 5724.0, 5354.0, 5473.0, 5509.0, 5592.0, 5651.0, 5516.0, 5289.0, 5339.0, 5639.0, 5582.0, 5481.0, 5673.0, 5652.0, 5579.0, 5321.0, 5449.0, 5356.0, 5362.0, 5623.0, 5531.0, 5390.0, 5403.0, 5606.0, 5440.0, 5717.0, 5648.0, 5406.0 (number of hits: 8)
4	5272	9	1	333	1	5709.0, 5672.0, 5384.0, 5555.0, 5352.0, 5473.0, 5570.0, 5697.0, 5589.0, 5429.0, 5580.0, 5441.0, 5383.0, 5483.0, 5360.0, 5320.0, 5703.0, 5655.0, 5278.0, 5659.0, 5444.0, 5479.0, 5482.0, 5503.0, 5713.0, 5331.0, 5472.0, 5445.0, 5612.0, 5647.0, 5388.0, 5464.0, 5318.0, 5401.0, 5613.0, 5313.0, 5252.0, 5650.0, 5629.0, 5590.0, 5405.0, 5326.0, 5632.0, 5443.0, 5458.0, 5469.0, 5558.0, 5536.0, 5349.0,

						5591.0, 5268.0, 5701.0, 5324.0, 5449.0, 5669.0, 5668.0, 5420.0, 5630.0, 5670.0, 5537.0, 5341.0, 5354.0, 5468.0, 5663.0, 5682.0, 5275.0, 5715.0, 5308.0, 5263.0, 5498.0, 5530.0, 5346.0, 5452.0, 5321.0, 5453.0, 5288.0, 5661.0, 5488.0, 5481.0, 5634.0, 5402.0, 5508.0, 5270.0, 5529.0, 5639.0, 5285.0, 5712.0, 5602.0, 5489.0, 5358.0, 5587.0, 5307.0, 5585.0, 5476.0, 5693.0, 5657.0, 5421.0, 5357.0, 5361.0, 5544.0 (number of hits: 8)
5	5273	9	1	333	1	5578.0, 5511.0, 5402.0, 5533.0, 5527.0, 5569.0, 5308.0, 5644.0, 5415.0, 5468.0, 5709.0, 5528.0, 5495.0, 5376.0, 5674.0, 5519.0, 5354.0, 5407.0, 5318.0, 5368.0, 5300.0, 5329.0, 5375.0, 5284.0, 5353.0, 5471.0, 5251.0, 5455.0, 5558.0, 5274.0, 5619.0, 5272.0, 5412.0, 5399.0, 5583.0, 5409.0, 5664.0, 5499.0, 5555.0, 5258.0, 5327.0, 5629.0, 5254.0, 5478.0, 5663.0, 5507.0, 5639.0, 5653.0, 5627.0, 5516.0, 5501.0, 5503.0, 5432.0, 5360.0, 5673.0, 5562.0, 5490.0, 5532.0, 5550.0, 5608.0, 5654.0, 5624.0, 5546.0, 5420.0, 5448.0, 5640.0, 5269.0, 5496.0, 5273.0, 5698.0, 5719.0, 5454.0, 5310.0, 5585.0, 5302.0, 5682.0, 5494.0, 5612.0, 5256.0, 5668.0, 5388.0, 5477.0, 5566.0, 5720.0, 5326.0, 5299.0, 5459.0, 5286.0, 5292.0, 5492.0, 5568.0, 5325.0, 5699.0, 5436.0, 5651.0, 5377.0, 5456.0, 5616.0, 5537.0, 5573.0 (number of hits: 10)
6	5274	9	1	333	1	5463.0, 5337.0, 5563.0, 5399.0, 5400.0, 5409.0, 5603.0, 5537.0, 5683.0, 5494.0, 5699.0, 5347.0, 5376.0, 5574.0, 5396.0, 5426.0, 5487.0, 5678.0, 5300.0, 5541.0, 5433.0, 5280.0, 5338.0, 5655.0, 5519.0, 5482.0, 5395.0, 5472.0, 5469.0, 5649.0, 5624.0, 5558.0, 5578.0, 5640.0, 5410.0, 5394.0, 5702.0, 5421.0, 5266.0, 5261.0, 5635.0, 5488.0, 5609.0, 5509.0, 5362.0, 5490.0, 5385.0, 5311.0, 5529.0, 5673.0, 5316.0, 5604.0, 5660.0, 5268.0, 5397.0, 5575.0, 5561.0, 5281.0, 5582.0, 5507.0, 5631.0, 5473.0, 5267.0, 5333.0, 5514.0, 5302.0, 5496.0, 5471.0, 5636.0, 5453.0, 5499.0, 5329.0, 5643.0, 5447.0, 5324.0, 5659.0, 5510.0, 5432.0, 5290.0, 5448.0, 5550.0, 5713.0, 5406.0, 5343.0, 5638.0, 5306.0, 5526.0, 5318.0, 5450.0, 5580.0, 5434.0, 5307.0, 5667.0, 5650.0, 5387.0, 5722.0, 5262.0, 5391.0, 5392.0, 5431.0 (number of hits: 7)
7	5275	9	1	333	1	5681.0, 5574.0, 5665.0, 5590.0, 5349.0, 5293.0, 5682.0, 5403.0, 5378.0, 5417.0, 5538.0, 5316.0, 5663.0, 5548.0, 5370.0, 5381.0, 5680.0, 5468.0, 5361.0, 5277.0, 5488.0, 5325.0, 5671.0, 5558.0, 5615.0, 5343.0, 5272.0, 5358.0, 5385.0, 5469.0, 5455.0, 5462.0, 5309.0, 5333.0, 5660.0, 5540.0, 5620.0, 5654.0, 5252.0, 5623.0, 5503.0, 5553.0, 5554.0, 5710.0, 5527.0, 5637.0, 5474.0, 5552.0, 5478.0, 5494.0, 5357.0, 5633.0, 5694.0, 5695.0, 5618.0, 5711.0, 5300.0, 5445.0, 5619.0, 5627.0, 5467.0, 5400.0, 5432.0, 5290.0, 5324.0, 5451.0, 5509.0, 5510.0, 5708.0, 5656.0, 5291.0, 5431.0, 5338.0, 5646.0, 5327.0, 5489.0, 5692.0, 5305.0, 5409.0, 5533.0, 5701.0, 5405.0, 5502.0, 5307.0, 5454.0, 5434.0, 5566.0, 5380.0, 5501.0, 5530.0, 5339.0, 5294.0, 5676.0, 5500.0, 5584.0, 5690.0, 5446.0, 5420.0, 5437.0, 5439.0 (number of hits: 3)
8	5276	9	1	333	1	5691.0, 5294.0, 5713.0, 5651.0, 5323.0, 5593.0, 5391.0, 5266.0, 5519.0, 5390.0, 5407.0, 5480.0, 5491.0, 5586.0, 5614.0, 5667.0, 5419.0, 5385.0, 5353.0, 5381.0, 5438.0, 5281.0, 5715.0, 5449.0, 5388.0, 5682.0, 5705.0, 5279.0, 5679.0, 5724.0, 5417.0, 5448.0, 5332.0, 5378.0, 5712.0,

						5581.0, 5300.0, 5692.0, 5351.0, 5583.0, 5440.0, 5525.0, 5455.0, 5346.0, 5510.0, 5603.0, 5518.0, 5441.0, 5656.0, 5627.0, 5505.0, 5269.0, 5398.0, 5490.0, 5469.0, 5553.0, 5345.0, 5514.0, 5620.0, 5362.0, 5592.0, 5319.0, 5311.0, 5335.0, 5474.0, 5493.0, 5291.0, 5310.0, 5369.0, 5660.0, 5517.0, 5468.0, 5547.0, 5316.0, 5315.0, 5445.0, 5395.0, 5277.0, 5619.0, 5377.0, 5321.0, 5500.0, 5668.0, 5429.0, 5285.0, 5372.0, 5520.0, 5427.0, 5341.0, 5612.0, 5318.0, 5536.0, 5687.0, 5404.0, 5622.0, 5577.0, 5666.0, 5529.0, 5694.0, 5320.0 (number of hits: 6)
9	5277	9	1	333	1	5343.0, 5605.0, 5327.0, 5328.0, 5673.0, 5511.0, 5430.0, 5406.0, 5320.0, 5643.0, 5660.0, 5358.0, 5598.0, 5530.0, 5592.0, 5407.0, 5347.0, 5700.0, 5339.0, 5307.0, 5366.0, 5425.0, 5412.0, 5431.0, 5714.0, 5533.0, 5608.0, 5260.0, 5559.0, 5670.0, 5375.0, 5704.0, 5663.0, 5362.0, 5621.0, 5482.0, 5447.0, 5595.0, 5558.0, 5488.0, 5718.0, 5691.0, 5570.0, 5387.0, 5473.0, 5658.0, 5354.0, 5439.0, 5386.0, 5604.0, 5722.0, 5478.0, 5579.0, 5504.0, 5656.0, 5382.0, 5690.0, 5706.0, 5317.0, 5612.0, 5580.0, 5377.0, 5410.0, 5617.0, 5461.0, 5518.0, 5536.0, 5497.0, 5376.0, 5458.0, 5454.0, 5360.0, 5446.0, 5463.0, 5641.0, 5496.0, 5681.0, 5560.0, 5651.0, 5450.0, 5516.0, 5457.0, 5470.0, 5299.0, 5420.0, 5716.0, 5550.0, 5264.0, 5310.0, 5469.0, 5271.0, 5350.0, 5369.0, 5542.0, 5552.0, 5527.0, 5532.0, 5491.0, 5404.0, 5384.0 (number of hits: 3)
10	5278	9	1	333	1	5390.0, 5364.0, 5674.0, 5678.0, 5691.0, 5449.0, 5332.0, 5641.0, 5697.0, 5567.0, 5314.0, 5273.0, 5635.0, 5653.0, 5701.0, 5266.0, 5661.0, 5408.0, 5428.0, 5608.0, 5403.0, 5276.0, 5651.0, 5312.0, 5606.0, 5509.0, 5541.0, 5613.0, 5504.0, 5471.0, 5620.0, 5689.0, 5527.0, 5386.0, 5572.0, 5391.0, 5663.0, 5343.0, 5480.0, 5671.0, 5338.0, 5562.0, 5628.0, 5342.0, 5498.0, 5637.0, 5573.0, 5659.0, 5416.0, 5396.0, 5542.0, 5622.0, 5254.0, 5326.0, 5259.0, 5466.0, 5631.0, 5286.0, 5709.0, 5373.0, 5524.0, 5582.0, 5257.0, 5400.0, 5414.0, 5290.0, 5530.0, 5415.0, 5543.0, 5282.0, 5561.0, 5546.0, 5520.0, 5692.0, 5574.0, 5420.0, 5470.0, 5451.0, 5648.0, 5270.0, 5311.0, 5717.0, 5568.0, 5315.0, 5410.0, 5513.0, 5460.0, 5271.0, 5399.0, 5604.0, 5306.0, 5355.0, 5564.0, 5518.0, 5350.0, 5435.0, 5331.0, 5694.0, 5467.0, 5346.0 (number of hits: 10)
11	5279	9	1	333	1	5444.0, 5408.0, 5548.0, 5288.0, 5372.0, 5253.0, 5643.0, 5693.0, 5602.0, 5490.0, 5421.0, 5686.0, 5699.0, 5587.0, 5314.0, 5442.0, 5658.0, 5393.0, 5310.0, 5506.0, 5298.0, 5402.0, 5443.0, 5604.0, 5564.0, 5670.0, 5328.0, 5485.0, 5377.0, 5347.0, 5449.0, 5458.0, 5277.0, 5418.0, 5259.0, 5486.0, 5656.0, 5571.0, 5694.0, 5459.0, 5254.0, 5258.0, 5437.0, 5312.0, 5652.0, 5667.0, 5307.0, 5597.0, 5614.0, 5537.0, 5696.0, 5718.0, 5287.0, 5565.0, 5679.0, 5351.0, 5497.0, 5268.0, 5365.0, 5375.0, 5493.0, 5498.0, 5302.0, 5297.0, 5428.0, 5529.0, 5508.0, 5599.0, 5472.0, 5426.0, 5666.0, 5660.0, 5368.0, 5262.0, 5607.0, 5391.0, 5608.0, 5423.0, 5466.0, 5333.0, 5547.0, 5560.0, 5354.0, 5488.0, 5502.0, 5496.0, 5386.0, 5335.0, 5318.0, 5300.0, 5348.0, 5589.0, 5305.0, 5721.0, 5701.0, 5403.0, 5567.0, 5594.0, 5657.0, 5396.0 (number of hits: 9)
12	5280	9	1	333	1	5559.0, 5346.0, 5587.0, 5307.0, 5256.0, 5481.0, 5383.0, 5693.0, 5342.0, 5486.0, 5539.0, 5612.0, 5464.0, 5313.0, 5724.0, 5529.0, 5329.0, 5720.0, 5363.0, 5370.0, 5398.0,

						5286.0, 5702.0, 5688.0, 5430.0, 5591.0, 5426.0, 5435.0, 5601.0, 5412.0, 5317.0, 5415.0, 5470.0, 5522.0, 5417.0, 5542.0, 5268.0, 5588.0, 5630.0, 5581.0, 5465.0, 5477.0, 5457.0, 5709.0, 5510.0, 5662.0, 5584.0, 5367.0, 5491.0, 5644.0, 5376.0, 5384.0, 5532.0, 5586.0, 5557.0, 5502.0, 5700.0, 5677.0, 5334.0, 5496.0, 5468.0, 5434.0, 5699.0, 5505.0, 5424.0, 5646.0, 5473.0, 5661.0, 5555.0, 5297.0, 5567.0, 5605.0, 5404.0, 5439.0, 5594.0, 5280.0, 5281.0, 5444.0, 5482.0, 5489.0, 5372.0, 5303.0, 5592.0, 5440.0, 5579.0, 5305.0, 5378.0, 5456.0, 5516.0, 5373.0, 5425.0, 5691.0, 5696.0, 5324.0, 5670.0, 5556.0, 5679.0, 5416.0, 5394.0, 5407.0 (number of hits: 5)
13	5281	9	1	333	1	5695.0, 5682.0, 5657.0, 5448.0, 5381.0, 5319.0, 5547.0, 5669.0, 5679.0, 5447.0, 5384.0, 5426.0, 5252.0, 5593.0, 5415.0, 5671.0, 5422.0, 5525.0, 5314.0, 5298.0, 5569.0, 5531.0, 5641.0, 5673.0, 5469.0, 5700.0, 5662.0, 5434.0, 5586.0, 5466.0, 5363.0, 5467.0, 5365.0, 5269.0, 5438.0, 5401.0, 5353.0, 5652.0, 5717.0, 5362.0, 5421.0, 5411.0, 5690.0, 5632.0, 5407.0, 5597.0, 5309.0, 5417.0, 5511.0, 5567.0, 5719.0, 5574.0, 5366.0, 5594.0, 5301.0, 5287.0, 5475.0, 5656.0, 5403.0, 5336.0, 5576.0, 5408.0, 5326.0, 5375.0, 5456.0, 5311.0, 5399.0, 5715.0, 5626.0, 5649.0, 5297.0, 5260.0, 5648.0, 5374.0, 5635.0, 5723.0, 5543.0, 5675.0, 5455.0, 5295.0, 5565.0, 5358.0, 5392.0, 5710.0, 5508.0, 5601.0, 5609.0, 5645.0, 5535.0, 5279.0, 5380.0, 5444.0, 5474.0, 5482.0, 5633.0, 5721.0, 5313.0, 5513.0, 5256.0, 5373.0 (number of hits: 6)
14	5282	9	1	333	1	5560.0, 5521.0, 5589.0, 5721.0, 5443.0, 5480.0, 5540.0, 5386.0, 5485.0, 5686.0, 5382.0, 5363.0, 5586.0, 5579.0, 5402.0, 5570.0, 5393.0, 5464.0, 5537.0, 5556.0, 5607.0, 5281.0, 5550.0, 5358.0, 5582.0, 5561.0, 5672.0, 5339.0, 5623.0, 5420.0, 5676.0, 5397.0, 5527.0, 5353.0, 5342.0, 5398.0, 5644.0, 5706.0, 5514.0, 5470.0, 5285.0, 5415.0, 5511.0, 5346.0, 5680.0, 5535.0, 5679.0, 5532.0, 5453.0, 5351.0, 5503.0, 5549.0, 5377.0, 5523.0, 5536.0, 5577.0, 5296.0, 5551.0, 5295.0, 5429.0, 5546.0, 5323.0, 5555.0, 5517.0, 5366.0, 5613.0, 5576.0, 5566.0, 5365.0, 5328.0, 5407.0, 5599.0, 5459.0, 5252.0, 5649.0, 5262.0, 5423.0, 5449.0, 5482.0, 5643.0, 5501.0, 5558.0, 5718.0, 5260.0, 5662.0, 5564.0, 5361.0, 5306.0, 5359.0, 5608.0, 5646.0, 5656.0, 5329.0, 5716.0, 5632.0, 5633.0, 5604.0, 5682.0, 5673.0, 5265.0 (number of hits: 6)
15	5283	9	1	333	1	5377.0, 5612.0, 5398.0, 5380.0, 5589.0, 5620.0, 5467.0, 5704.0, 5610.0, 5647.0, 5464.0, 5422.0, 5634.0, 5495.0, 5360.0, 5493.0, 5535.0, 5680.0, 5488.0, 5413.0, 5375.0, 5321.0, 5251.0, 5391.0, 5480.0, 5367.0, 5497.0, 5582.0, 5604.0, 5701.0, 5544.0, 5698.0, 5313.0, 5655.0, 5596.0, 5676.0, 5549.0, 5399.0, 5421.0, 5362.0, 5617.0, 5255.0, 5282.0, 5325.0, 5372.0, 5437.0, 5358.0, 5275.0, 5288.0, 5379.0, 5345.0, 5721.0, 5334.0, 5442.0, 5637.0, 5523.0, 5685.0, 5513.0, 5524.0, 5563.0, 5386.0, 5614.0, 5662.0, 5290.0, 5293.0, 5640.0, 5716.0, 5390.0, 5342.0, 5469.0, 5645.0, 5668.0, 5653.0, 5333.0, 5368.0, 5363.0, 5600.0, 5374.0, 5273.0, 5504.0, 5560.0, 5274.0, 5575.0, 5302.0, 5415.0, 5570.0, 5539.0, 5330.0, 5594.0, 5496.0, 5576.0, 5659.0, 5656.0, 5336.0, 5448.0, 5280.0, 5686.0, 5291.0, 5561.0, 5319.0 (number of hits: 8)
16	5284	9	1	333	1	5410.0, 5381.0, 5583.0, 5296.0, 5502.0, 5411.0, 5284.0,

						5670.0, 5632.0, 5338.0, 5624.0, 5618.0, 5359.0, 5260.0, 5511.0, 5649.0, 5345.0, 5475.0, 5595.0, 5542.0, 5368.0, 5545.0, 5665.0, 5536.0, 5486.0, 5638.0, 5361.0, 5484.0, 5397.0, 5472.0, 5395.0, 5643.0, 5343.0, 5688.0, 5619.0, 5716.0, 5704.0, 5557.0, 5274.0, 5287.0, 5419.0, 5689.0, 5426.0, 5507.0, 5512.0, 5601.0, 5675.0, 5436.0, 5455.0, 5413.0, 5697.0, 5282.0, 5400.0, 5450.0, 5569.0, 5558.0, 5264.0, 5439.0, 5721.0, 5710.0, 5272.0, 5674.0, 5589.0, 5406.0, 5509.0, 5258.0, 5571.0, 5262.0, 5385.0, 5519.0, 5466.0, 5715.0, 5517.0, 5379.0, 5695.0, 5409.0, 5457.0, 5392.0, 5390.0, 5693.0, 5633.0, 5574.0, 5712.0, 5510.0, 5672.0, 5263.0, 5588.0, 5630.0, 5334.0, 5683.0, 5609.0, 5279.0, 5673.0, 5559.0, 5498.0, 5435.0, 5590.0, 5414.0, 5456.0, 5628.0 (number of hits: 11)
17	5285	9	1	333	0	5695.0, 5682.0, 5657.0, 5448.0, 5381.0, 5319.0, 5547.0, 5669.0, 5679.0, 5447.0, 5384.0, 5426.0, 5252.0, 5593.0, 5415.0, 5671.0, 5422.0, 5525.0, 5314.0, 5298.0, 5569.0, 5531.0, 5641.0, 5673.0, 5469.0, 5700.0, 5662.0, 5434.0, 5586.0, 5466.0, 5363.0, 5467.0, 5365.0, 5269.0, 5438.0, 5401.0, 5353.0, 5652.0, 5717.0, 5362.0, 5421.0, 5411.0, 5690.0, 5632.0, 5407.0, 5597.0, 5309.0, 5417.0, 5511.0, 5567.0, 5719.0, 5574.0, 5366.0, 5594.0, 5301.0, 5287.0, 5475.0, 5656.0, 5403.0, 5336.0, 5576.0, 5408.0, 5326.0, 5375.0, 5456.0, 5311.0, 5399.0, 5715.0, 5626.0, 5649.0, 5297.0, 5260.0, 5648.0, 5374.0, 5635.0, 5723.0, 5543.0, 5675.0, 5455.0, 5295.0, 5565.0, 5358.0, 5392.0, 5710.0, 5508.0, 5601.0, 5609.0, 5645.0, 5535.0, 5279.0, 5380.0, 5444.0, 5474.0, 5482.0, 5633.0, 5721.0, 5313.0, 5513.0, 5256.0, 5373.0 (number of hits: 6)
18	5269	9	1	333	1	5306.0, 5440.0, 5694.0, 5411.0, 5520.0, 5442.0, 5259.0, 5626.0, 5285.0, 5692.0, 5594.0, 5703.0, 5571.0, 5616.0, 5439.0, 5401.0, 5300.0, 5368.0, 5606.0, 5483.0, 5671.0, 5322.0, 5363.0, 5275.0, 5693.0, 5254.0, 5324.0, 5611.0, 5662.0, 5660.0, 5491.0, 5523.0, 5452.0, 5474.0, 5699.0, 5463.0, 5321.0, 5451.0, 5670.0, 5502.0, 5713.0, 5538.0, 5522.0, 5413.0, 5708.0, 5420.0, 5562.0, 5720.0, 5722.0, 5448.0, 5635.0, 5396.0, 5424.0, 5444.0, 5371.0, 5647.0, 5267.0, 5428.0, 5436.0, 5609.0, 5588.0, 5579.0, 5507.0, 5528.0, 5386.0, 5422.0, 5464.0, 5555.0, 5525.0, 5716.0, 5373.0, 5514.0, 5668.0, 5387.0, 5564.0, 5506.0, 5414.0, 5313.0, 5526.0, 5651.0, 5556.0, 5410.0, 5318.0, 5266.0, 5252.0, 5375.0, 5533.0, 5550.0, 5279.0, 5299.0, 5311.0, 5667.0, 5597.0, 5449.0, 5643.0, 5255.0, 5595.0, 5292.0, 5304.0, 5408.0 (number of hits: 9)
19	5268	9	1	333	1	5349.0, 5465.0, 5521.0, 5450.0, 5550.0, 5313.0, 5507.0, 5543.0, 5559.0, 5395.0, 5290.0, 5637.0, 5565.0, 5718.0, 5402.0, 5713.0, 5681.0, 5492.0, 5262.0, 5590.0, 5437.0, 5275.0, 5362.0, 5689.0, 5287.0, 5506.0, 5267.0, 5436.0, 5453.0, 5357.0, 5422.0, 5339.0, 5706.0, 5688.0, 5694.0, 5573.0, 5522.0, 5554.0, 5472.0, 5343.0, 5658.0, 5292.0, 5297.0, 5334.0, 5266.0, 5480.0, 5546.0, 5421.0, 5568.0, 5537.0, 5347.0, 5409.0, 5461.0, 5293.0, 5576.0, 5659.0, 5702.0, 5260.0, 5284.0, 5322.0, 5714.0, 5627.0, 5254.0, 5485.0, 5476.0, 5445.0, 5302.0, 5354.0, 5601.0, 5359.0, 5467.0, 5419.0, 5677.0, 5720.0, 5501.0, 5274.0, 5305.0, 5344.0, 5578.0, 5684.0, 5703.0, 5593.0, 5365.0, 5278.0, 5500.0, 5509.0, 5552.0, 5701.0, 5594.0, 5346.0, 5664.0, 5656.0, 5545.0, 5707.0, 5514.0, 5448.0, 5425.0, 5257.0,

						5460.0, 5564.0 (number of hits: 11)
20	5267	9	1	333	1	5405.0, 5597.0, 5623.0, 5275.0, 5668.0, 5546.0, 5621.0, 5368.0, 5304.0, 5329.0, 5353.0, 5708.0, 5568.0, 5690.0, 5449.0, 5298.0, 5715.0, 5444.0, 5276.0, 5699.0, 5344.0, 5458.0, 5553.0, 5575.0, 5625.0, 5581.0, 5590.0, 5543.0, 5269.0, 5533.0, 5566.0, 5437.0, 5650.0, 5656.0, 5673.0, 5687.0, 5319.0, 5582.0, 5443.0, 5541.0, 5350.0, 5513.0, 5629.0, 5408.0, 5642.0, 5671.0, 5338.0, 5564.0, 5547.0, 5503.0, 5397.0, 5523.0, 5592.0, 5498.0, 5617.0, 5577.0, 5678.0, 5452.0, 5515.0, 5440.0, 5429.0, 5322.0, 5252.0, 5333.0, 5520.0, 5380.0, 5598.0, 5657.0, 5305.0, 5663.0, 5478.0, 5586.0, 5277.0, 5521.0, 5454.0, 5607.0, 5517.0, 5552.0, 5394.0, 5471.0, 5302.0, 5363.0, 5292.0, 5627.0, 5630.0, 5390.0, 5416.0, 5610.0, 5643.0, 5482.0, 5257.0, 5297.0, 5419.0, 5395.0, 5660.0, 5423.0, 5540.0, 5263.0, 5619.0, 5330.0 (number of hits: 7)
21	5266	9	1	333	1	5656.0, 5697.0, 5406.0, 5427.0, 5350.0, 5390.0, 5482.0, 5625.0, 5628.0, 5291.0, 5434.0, 5433.0, 5533.0, 5445.0, 5536.0, 5629.0, 5549.0, 5600.0, 5524.0, 5476.0, 5558.0, 5318.0, 5616.0, 5465.0, 5555.0, 5679.0, 5353.0, 5507.0, 5655.0, 5358.0, 5705.0, 5540.0, 5532.0, 5469.0, 5437.0, 5421.0, 5265.0, 5709.0, 5721.0, 5631.0, 5525.0, 5423.0, 5584.0, 5477.0, 5577.0, 5644.0, 5472.0, 5671.0, 5357.0, 5483.0, 5556.0, 5565.0, 5422.0, 5712.0, 5668.0, 5335.0, 5575.0, 5470.0, 5276.0, 5696.0, 5653.0, 5323.0, 5436.0, 5597.0, 5307.0, 5519.0, 5475.0, 5526.0, 5410.0, 5652.0, 5372.0, 5316.0, 5550.0, 5579.0, 5495.0, 5508.0, 5420.0, 5299.0, 5449.0, 5567.0, 5547.0, 5321.0, 5287.0, 5393.0, 5412.0, 5677.0, 5585.0, 5640.0, 5613.0, 5620.0, 5405.0, 5269.0, 5627.0, 5425.0, 5699.0, 5711.0, 5563.0, 5592.0, 5649.0, 5344.0 (number of hits: 4)
22	5265	9	1	333	1	5576.0, 5343.0, 5253.0, 5263.0, 5685.0, 5661.0, 5405.0, 5690.0, 5309.0, 5573.0, 5577.0, 5358.0, 5395.0, 5564.0, 5514.0, 5518.0, 5694.0, 5624.0, 5522.0, 5274.0, 5496.0, 5390.0, 5285.0, 5488.0, 5379.0, 5445.0, 5318.0, 5485.0, 5467.0, 5469.0, 5569.0, 5584.0, 5475.0, 5688.0, 5324.0, 5389.0, 5670.0, 5276.0, 5375.0, 5675.0, 5453.0, 5630.0, 5526.0, 5585.0, 5560.0, 5544.0, 5327.0, 5703.0, 5446.0, 5353.0, 5516.0, 5295.0, 5635.0, 5352.0, 5471.0, 5611.0, 5411.0, 5279.0, 5328.0, 5350.0, 5655.0, 5430.0, 5417.0, 5301.0, 5637.0, 5449.0, 5472.0, 5344.0, 5325.0, 5557.0, 5316.0, 5663.0, 5575.0, 5582.0, 5397.0, 5618.0, 5610.0, 5280.0, 5620.0, 5361.0, 5565.0, 5700.0, 5313.0, 5495.0, 5425.0, 5346.0, 5622.0, 5265.0, 5534.0, 5293.0, 5532.0, 5378.0, 5384.0, 5537.0, 5317.0, 5623.0, 5543.0, 5525.0, 5273.0, 5410.0 (number of hits: 9)
23	5264	9	1	333	1	5285.0, 5300.0, 5521.0, 5371.0, 5524.0, 5362.0, 5255.0, 5385.0, 5675.0, 5283.0, 5660.0, 5498.0, 5694.0, 5461.0, 5718.0, 5695.0, 5709.0, 5683.0, 5253.0, 5334.0, 5701.0, 5646.0, 5328.0, 5560.0, 5506.0, 5520.0, 5495.0, 5389.0, 5332.0, 5446.0, 5573.0, 5591.0, 5488.0, 5386.0, 5382.0, 5277.0, 5662.0, 5451.0, 5372.0, 5501.0, 5467.0, 5670.0, 5711.0, 5640.0, 5722.0, 5454.0, 5301.0, 5564.0, 5278.0, 5607.0, 5409.0, 5688.0, 5256.0, 5447.0, 5504.0, 5264.0, 5597.0, 5312.0, 5634.0, 5417.0, 5448.0, 5643.0, 5511.0, 5302.0, 5492.0, 5431.0, 5449.0, 5563.0, 5496.0, 5514.0, 5517.0, 5602.0, 5324.0, 5440.0, 5307.0, 5500.0, 5327.0, 5494.0, 5618.0, 5677.0, 5353.0, 5344.0, 5632.0, 5723.0,

						5348.0, 5325.0, 5394.0, 5669.0, 5503.0, 5383.0, 5473.0, 5592.0, 5505.0, 5368.0, 5585.0, 5482.0, 5379.0, 5509.0, 5445.0, 5266.0 (number of hits: 9)
24	5263	9	1	333	1	5478.0, 5700.0, 5552.0, 5664.0, 5406.0, 5525.0, 5556.0, 5647.0, 5450.0, 5468.0, 5338.0, 5597.0, 5675.0, 5694.0, 5374.0, 5716.0, 5639.0, 5348.0, 5351.0, 5369.0, 5708.0, 5640.0, 5421.0, 5400.0, 5511.0, 5311.0, 5437.0, 5608.0, 5601.0, 5363.0, 5610.0, 5396.0, 5546.0, 5458.0, 5567.0, 5420.0, 5477.0, 5650.0, 5361.0, 5510.0, 5679.0, 5625.0, 5439.0, 5471.0, 5416.0, 5641.0, 5662.0, 5635.0, 5261.0, 5676.0, 5563.0, 5703.0, 5555.0, 5618.0, 5717.0, 5409.0, 5486.0, 5702.0, 5667.0, 5441.0, 5408.0, 5327.0, 5622.0, 5658.0, 5712.0, 5344.0, 5330.0, 5514.0, 5666.0, 5350.0, 5398.0, 5393.0, 5318.0, 5561.0, 5476.0, 5707.0, 5470.0, 5431.0, 5545.0, 5270.0, 5335.0, 5443.0, 5397.0, 5303.0, 5280.0, 5480.0, 5508.0, 5459.0, 5277.0, 5300.0, 5643.0, 5595.0, 5668.0, 5688.0, 5457.0, 5519.0, 5505.0, 5484.0, 5550.0, 5272.0 (number of hits: 5)
25	5262	9	1	333	1	5622.0, 5267.0, 5560.0, 5266.0, 5414.0, 5375.0, 5544.0, 5691.0, 5380.0, 5391.0, 5488.0, 5507.0, 5331.0, 5258.0, 5444.0, 5260.0, 5377.0, 5344.0, 5469.0, 5638.0, 5562.0, 5693.0, 5704.0, 5535.0, 5499.0, 5387.0, 5268.0, 5442.0, 5539.0, 5280.0, 5468.0, 5276.0, 5367.0, 5497.0, 5395.0, 5531.0, 5289.0, 5323.0, 5254.0, 5311.0, 5546.0, 5661.0, 5382.0, 5316.0, 5694.0, 5434.0, 5343.0, 5379.0, 5594.0, 5457.0, 5596.0, 5702.0, 5351.0, 5644.0, 5347.0, 5703.0, 5593.0, 5350.0, 5542.0, 5432.0, 5364.0, 5365.0, 5717.0, 5561.0, 5486.0, 5335.0, 5448.0, 5322.0, 5302.0, 5263.0, 5306.0, 5524.0, 5292.0, 5590.0, 5663.0, 5490.0, 5513.0, 5565.0, 5333.0, 5424.0, 5579.0, 5425.0, 5685.0, 5573.0, 5651.0, 5586.0, 5599.0, 5670.0, 5253.0, 5543.0, 5549.0, 5407.0, 5595.0, 5574.0, 5718.0, 5502.0, 5441.0, 5514.0, 5606.0, 5300.0 (number of hits: 11)
26	5261	9	1	333	1	5308.0, 5676.0, 5707.0, 5372.0, 5358.0, 5578.0, 5584.0, 5504.0, 5390.0, 5716.0, 5273.0, 5564.0, 5648.0, 5616.0, 5352.0, 5491.0, 5423.0, 5468.0, 5318.0, 5297.0, 5544.0, 5631.0, 5353.0, 5336.0, 5667.0, 5388.0, 5485.0, 5721.0, 5585.0, 5662.0, 5298.0, 5661.0, 5711.0, 5486.0, 5622.0, 5657.0, 5306.0, 5708.0, 5269.0, 5587.0, 5444.0, 5670.0, 5274.0, 5526.0, 5512.0, 5610.0, 5712.0, 5404.0, 5432.0, 5607.0, 5375.0, 5655.0, 5289.0, 5552.0, 5588.0, 5704.0, 5697.0, 5283.0, 5322.0, 5581.0, 5500.0, 5501.0, 5339.0, 5457.0, 5550.0, 5422.0, 5592.0, 5703.0, 5699.0, 5456.0, 5653.0, 5577.0, 5277.0, 5381.0, 5439.0, 5510.0, 5477.0, 5548.0, 5302.0, 5262.0, 5476.0, 5369.0, 5343.0, 5445.0, 5597.0, 5664.0, 5495.0, 5705.0, 5573.0, 5522.0, 5513.0, 5568.0, 5680.0, 5516.0, 5604.0, 5487.0, 5286.0, 5340.0, 5458.0, 5557.0 (number of hits: 8)
27	5260	9	1	333	1	5393.0, 5487.0, 5253.0, 5436.0, 5651.0, 5422.0, 5391.0, 5646.0, 5525.0, 5619.0, 5477.0, 5468.0, 5632.0, 5420.0, 5265.0, 5388.0, 5437.0, 5702.0, 5532.0, 5553.0, 5530.0, 5523.0, 5559.0, 5299.0, 5369.0, 5448.0, 5406.0, 5287.0, 5507.0, 5605.0, 5400.0, 5566.0, 5360.0, 5644.0, 5676.0, 5413.0, 5254.0, 5492.0, 5546.0, 5399.0, 5555.0, 5342.0, 5296.0, 5363.0, 5339.0, 5630.0, 5598.0, 5290.0, 5587.0, 5704.0, 5647.0, 5571.0, 5503.0, 5568.0, 5623.0, 5687.0, 5534.0, 5586.0, 5607.0, 5723.0, 5551.0, 5697.0, 5304.0, 5674.0, 5331.0, 5410.0, 5286.0, 5349.0, 5545.0, 5572.0,

						5454.0, 5279.0, 5700.0, 5703.0, 5358.0, 5337.0, 5539.0, 5596.0, 5567.0, 5562.0, 5517.0, 5289.0, 5252.0, 5343.0, 5441.0, 5528.0, 5260.0, 5303.0, 5283.0, 5606.0, 5582.0, 5450.0, 5428.0, 5597.0, 5634.0, 5548.0, 5645.0, 5258.0, 5558.0, 5320.0 (number of hits: 11)
28	5259	9	1	333	0	5622.0, 5267.0, 5560.0, 5266.0, 5414.0, 5375.0, 5544.0, 5691.0, 5380.0, 5391.0, 5488.0, 5507.0, 5331.0, 5258.0, 5444.0, 5260.0, 5377.0, 5344.0, 5469.0, 5638.0, 5562.0, 5693.0, 5704.0, 5535.0, 5499.0, 5387.0, 5268.0, 5442.0, 5539.0, 5280.0, 5468.0, 5276.0, 5367.0, 5497.0, 5395.0, 5531.0, 5289.0, 5323.0, 5254.0, 5311.0, 5546.0, 5661.0, 5382.0, 5316.0, 5694.0, 5434.0, 5343.0, 5379.0, 5594.0, 5457.0, 5596.0, 5702.0, 5351.0, 5644.0, 5347.0, 5703.0, 5593.0, 5350.0, 5542.0, 5432.0, 5364.0, 5365.0, 5717.0, 5561.0, 5486.0, 5335.0, 5448.0, 5322.0, 5302.0, 5263.0, 5306.0, 5524.0, 5292.0, 5590.0, 5663.0, 5490.0, 5513.0, 5565.0, 5333.0, 5424.0, 5579.0, 5425.0, 5685.0, 5573.0, 5651.0, 5586.0, 5599.0, 5670.0, 5253.0, 5543.0, 5549.0, 5407.0, 5595.0, 5574.0, 5718.0, 5502.0, 5441.0, 5514.0, 5606.0, 5300.0 (number of hits: 11)
29	5258	9	1	333	1	5412.0, 5623.0, 5676.0, 5637.0, 5424.0, 5574.0, 5536.0, 5591.0, 5578.0, 5367.0, 5634.0, 5606.0, 5417.0, 5530.0, 5635.0, 5423.0, 5615.0, 5524.0, 5396.0, 5531.0, 5287.0, 5555.0, 5475.0, 5562.0, 5469.0, 5700.0, 5501.0, 5443.0, 5296.0, 5473.0, 5517.0, 5356.0, 5451.0, 5346.0, 5379.0, 5481.0, 5643.0, 5690.0, 5307.0, 5565.0, 5718.0, 5630.0, 5327.0, 5516.0, 5608.0, 5691.0, 5365.0, 5428.0, 5375.0, 5316.0, 5646.0, 5668.0, 5511.0, 5693.0, 5358.0, 5444.0, 5404.0, 5550.0, 5697.0, 5280.0, 5267.0, 5496.0, 5664.0, 5339.0, 5281.0, 5500.0, 5632.0, 5604.0, 5605.0, 5612.0, 5381.0, 5611.0, 5286.0, 5301.0, 5528.0, 5326.0, 5628.0, 5388.0, 5699.0, 5684.0, 5549.0, 5489.0, 5435.0, 5597.0, 5633.0, 5468.0, 5259.0, 5498.0, 5534.0, 5368.0, 5716.0, 5694.0, 5342.0, 5661.0, 5497.0, 5293.0, 5415.0, 5284.0, 5392.0, 5291.0 (number of hits: 7)
30	5257	9	1	333	1	5501.0, 5265.0, 5457.0, 5461.0, 5713.0, 5388.0, 5592.0, 5603.0, 5334.0, 5380.0, 5291.0, 5432.0, 5699.0, 5301.0, 5258.0, 5468.0, 5254.0, 5598.0, 5667.0, 5439.0, 5643.0, 5426.0, 5269.0, 5591.0, 5634.0, 5349.0, 5271.0, 5673.0, 5496.0, 5434.0, 5469.0, 5383.0, 5563.0, 5575.0, 5279.0, 5671.0, 5612.0, 5656.0, 5264.0, 5589.0, 5354.0, 5344.0, 5370.0, 5423.0, 5529.0, 5567.0, 5562.0, 5277.0, 5684.0, 5510.0, 5581.0, 5330.0, 5398.0, 5531.0, 5708.0, 5304.0, 5521.0, 5519.0, 5605.0, 5696.0, 5543.0, 5327.0, 5407.0, 5491.0, 5654.0, 5714.0, 5424.0, 5630.0, 5607.0, 5523.0, 5633.0, 5560.0, 5698.0, 5628.0, 5285.0, 5711.0, 5709.0, 5644.0, 5261.0, 5452.0, 5305.0, 5513.0, 5351.0, 5593.0, 5371.0, 5635.0, 5542.0, 5302.0, 5378.0, 5283.0, 5322.0, 5422.0, 5584.0, 5414.0, 5515.0, 5658.0, 5577.0, 5386.0, 5676.0, 5309.0 (number of hits: 11)

5300 MHz

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1	30	100 %	60%	Pass
Type 2	30	100 %	60%	Pass
Type 3	30	100 %	60%	Pass
Type 4	30	93.3 %	60%	Pass
Aggregate (Type1 to 4)	120	98.3%	80%	Pass
Type 5	30	100 %	80%	Pass
Type 6	30	100 %	70%	Pass

Please refer to the following statistical tables:

Table-1 Radar Type 1 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5300	18	1	1428	1
2	5300	18	1	1428	1
3	5300	18	1	1428	1
4	5300	18	1	1428	1
5	5300	18	1	1428	1
6	5300	18	1	1428	1
7	5300	18	1	1428	1
8	5300	18	1	1428	1
9	5300	18	1	1428	1
10	5300	18	1	1428	1
11	5300	18	1	1428	1
12	5300	18	1	1428	1
13	5300	18	1	1428	1
14	5300	18	1	1428	1
15	5300	18	1	1428	1
16	5300	18	1	1428	1
17	5300	18	1	1428	1
18	5300	18	1	1428	1
19	5300	18	1	1428	1
20	5300	18	1	1428	1

21	5300	18	1	1428	1
22	5300	18	1	1428	1
23	5300	18	1	1428	1
24	5300	18	1	1428	1
25	5300	18	1	1428	1
26	5300	18	1	1428	1
27	5300	18	1	1428	1
28	5300	18	1	1428	1
29	5300	18	1	1428	1
30	5300	18	1	1428	1
Detection Percentage: 100 % (>60%)					

Table-2 Radar Type 2 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5300	26	3.7	185	1
2	5300	29	2.8	172	1
3	5300	24	2.5	196	1
4	5300	27	1.2	200	1
5	5300	24	2.3	182	1
6	5300	24	3.2	226	1
7	5300	28	4.3	212	1
8	5300	23	4	210	1
9	5300	26	3	221	1
10	5300	28	2.5	223	1
11	5300	28	2.3	192	1
12	5300	29	4.2	175	1
13	5300	24	3.2	198	1
14	5300	28	1.2	166	1
15	5300	24	2.9	211	1
16	5300	29	3.8	166	1
17	5300	26	1.9	152	1
18	5300	29	5	157	1
19	5300	27	3.7	207	1
20	5300	29	2.6	166	1
21	5300	25	4.4	170	1
22	5300	27	1.5	194	1
23	5300	27	4.2	193	1
24	5300	29	4.3	201	1
25	5300	24	2.5	154	1

26	5300	23	2.4	215	1
27	5300	24	4	182	1
28	5300	24	2.8	229	1
29	5300	28	1	191	1
30	5300	27	2.2	202	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	5300	18	6.7	500	1
2	5300	18	8.2	306	1
3	5300	17	7.7	386	1
4	5300	17	6	363	1
5	5300	18	6.5	430	1
6	5300	17	6.1	427	1
7	5300	16	9.1	500	1
8	5300	17	7.5	342	1
9	5300	18	9.4	331	1
10	5300	17	7.8	237	1
11	5300	18	9.1	216	1
12	5300	17	8.1	275	1
13	5300	18	9.1	389	1
14	5300	17	6.3	231	1
15	5300	17	10	234	1
16	5300	18	6.6	435	1
17	5300	17	8.2	318	1
18	5300	16	6.6	387	1
19	5300	18	9.7	265	1
20	5300	17	7.4	259	1
21	5300	17	7.8	348	1
22	5300	17	8	316	1
23	5300	18	9.7	391	1
24	5300	17	9.9	278	1
25	5300	18	6.9	316	1
26	5300	18	9.6	284	1
27	5300	16	6.3	379	1
28	5300	18	8.7	441	1
29	5300	18	8.1	243	1
30	5300	18	9.3	494	1

Detection Percentage: 100 % (>60%)
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Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5300	13	18.2	418	1
2	5300	12	16.8	380	1
3	5300	13	16.9	238	1
4	5300	13	13.2	218	1
5	5300	16	15.9	346	1
6	5300	14	14.3	407	1
7	5300	13	19.5	441	0
8	5300	13	12.6	421	1
9	5300	12	16.1	276	1
10	5300	12	17	368	1
11	5300	13	14	482	1
12	5300	16	11.9	286	1
13	5300	14	16.9	230	1
14	5300	14	19.3	256	0
15	5300	12	13.7	468	1
16	5300	15	14	494	1
17	5300	14	16.4	495	1
18	5300	12	13.4	376	1
19	5300	13	12.8	335	1
20	5300	15	18	264	1
21	5300	13	12.1	409	1
22	5300	13	13.4	362	1
23	5300	16	17.6	236	1
24	5300	16	17.9	297	1
25	5300	13	15.7	358	1
26	5300	13	11.8	224	1
27	5300	14	13.3	474	1
28	5300	14	15.7	353	1
29	5300	15	13.3	416	1
30	5300	12	14.3	390	1
Detection Percentage: 93.3 % (>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	14	99.7	1324		0.282416	1
1	2	10	93.1	1671		1.560589	
2	3	13	52.4	1237	1130	2.241839	
3	2	19	66.6	1503		3.470704	
4	3	10	51.1	1027	1122	4.125738	
5	2	10	80.9	1052		4.624936	
6	2	7	54.3	1162		5.655012	
7	3	17	93.1	1410	1208	6.589899	
8	1	14	80.9			7.646193	
9	1	7	96.9			8.561129	
10	2	15	90.3	1834		9.574891	
11	2	19	97.4	1484		10.51821	
12	2	11	69	1628		11.91133	

Bin5 Statistics 2

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	13	85.6			0.144306	1
1	3	11	81.6	1881	1850	0.791478	
2	1	12	80			1.305844	
3	2	15	86	1706		2.279925	
4	1	16	84.8			3.010783	
5	2	17	65.9	1927		3.517965	
6	3	20	59.5	1645	1237	4.096849	
7	2	18	86.5	1864		4.485953	
8	3	14	87.1	1593	1176	5.363245	
9	3	10	74.7	1750	1313	6.272809	
10	2	18	72.8	1065		6.564973	
11	1	7	72.3			7.295369	
12	2	10	92.4	1857		7.835023	
13	1	6	69.1			8.457244	
14	2	9	94.2	1590		9.296263	
15	2	8	60.6	1105		9.99349	
16	2	15	84.4	1064		10.53225	
17	1	12	83			11.15736	
18	2	12	87.1	1225		11.94891	

Bin5 Statistics 3

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	6	95.1	1968		0.433894	1
1	2	16	75.1	1665		1.421489	
2	2	11	92.7	1801		2.379549	
3	1	20	52			3.149287	
4	1	16	98.5			3.7376	
5	2	19	75.4	1109		4.258868	
6	2	7	98.6	1874		5.248808	
7	2	18	91.8	1355		5.999526	
8	3	18	97.4	1524	1441	6.95626	
9	1	12	65.4			7.619649	
10	2	11	79.5	1141		8.384261	
11	1	17	59.7			9.560579	
12	2	18	71.8	1051		9.777747	
13	2	18	86.3	1913		11.03608	
14	3	18	57.9	1240	1709	11.5513	

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	15	73.7	1085		1.109237	1
1	3	8	51.3	1711	1331	2.391548	
2	2	10	68.8	1964		3.290211	
3	1	19	92.8			3.851643	
4	2	12	52.4	1730		5.856913	
5	3	16	53.4	1516	1250	6.11469	
6	1	12	75.5			7.898023	
7	2	11	84.5	1677		8.421203	
8	3	12	58.8	1941	1756	10.15935	
9	1	5	87.8			11.59322	

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	8	69.4	1641		0.287737	1
1	1	13	78.9			2.643346	
2	2	9	61.8	1097		3.525919	

3	1	17	70.9			4.036724	
4	2	16	54.1	1975		6.602892	
5	2	8	91.9	1635		7.907419	
6	2	10	55.6	1620		8.55761	
7	2	6	64.7	1625		9.862334	
8	2	10	97.2	1177		10.8418	

Bin5 Statistics 6

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	8	100	1068	1362	0.395388	1
1	3	9	90.4	1340	1358	2.074109	
2	1	11	68.6			3.421194	
3	3	8	78.7	1016	1604	4.39161	
4	2	12	78.4	1396		5.754455	
5	3	6	79	1682	1306	7.044776	
6	2	8	73.4	1993		7.394635	
7	2	17	78.2	1070		8.866414	
8	2	13	98.5	1771		9.718122	
9	2	15	67.5	1258		11.65795	

Bin5 Statistics 7

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	7	98.8	1117		0.855606	1
1	3	6	78.9	1786	1846	2.687625	
2	3	15	97.1	1923	1768	3.223695	
3	3	9	79.8	1084	1470	5.797887	
4	1	13	82.3			6.844577	
5	1	15	53.2			8.219916	
6	1	15	80.8			9.364335	
7	2	10	75.2	1527		10.82799	

Bin5 Statistics 8

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	11	63.6			0.829397	1
1	2	12	77.7	1657		2.147085	

2	2	16	66.1	1207		3.293926	
3	2	9	81.5	1890		3.620205	
4	2	8	79.3	1029		5.072151	
5	2	8	96.2	1092		6.310817	
6	2	18	54.4	1828		7.744088	
7	3	7	91.6	1297	1287	9.024267	
8	1	17	52.9			10.67388	
9	3	19	66.7	1149	1887	10.83646	

Bin5 Statistics 9

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	14	93.1	1611		0.348554	0
1	2	8	66.3	1414		1.269087	
2	3	14	51.9	1676	1223	2.772005	
3	2	13	56.4	1855		4.175908	
4	2	18	94.3	1081		5.387167	
5	2	14	95.3	1383		7.008531	
6	2	13	58.3	1748		8.34052	
7	2	18	95.2	1290		8.665751	
8	1	15	57.9			10.79101	
9	1	16	66.4			11.68588	

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	10	80.6	1769		0.623845	1
1	1	13	50.6			0.781386	
2	2	15	58.2	1495		1.603093	
3	2	8	78.8	1367		2.082181	
4	2	8	65	1348		2.762153	
5	1	12	85.9			3.654792	
6	2	12	51	1598		4.03501	
7	2	8	55.5	1039		4.865125	
8	1	7	76			5.448112	
9	2	16	93	1592		6.292378	
10	1	15	94.6			6.651134	
11	3	7	76	1611	1178	6.963218	
12	2	8	84.3	1766		8.160499	

13	2	8	71	1285		8.355833	
14	2	9	93.1	1428		9.176873	
15	2	6	94.1	1188		9.72808	
16	1	14	52.5			10.27572	
17	3	9	97.3	1377	1350	10.96561	
18	1	20	89.7			11.82688	

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	9	90.5			0.61025	1
1	2	14	82.7	1126		0.896695	
2	3	20	61.8	1078	1170	1.956548	
3	2	6	78.9	1264		2.812841	
4	3	9	97.8	1519	1262	3.48998	
5	1	15	51.5			3.564982	
6	2	11	89.4	1053		4.547772	
7	2	9	78.4	1527		5.476446	
8	2	9	83.8	1358		5.699958	
9	1	19	57.5			6.726098	
10	1	9	98.5			7.160113	
11	3	11	93.1	1345	1803	8.289546	
12	3	8	60.9	1512	1473	9.072734	
13	1	5	90.2			9.275228	
14	1	12	68.9			10.45961	
15	2	15	65.5	1210		11.16153	
16	2	17	64.1	1818		11.91475	

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	17	50.6	1653		0.972794	1
1	3	16	61	1610	1235	2.153251	
2	1	19	52.5			2.479727	
3	3	8	71.9	1299	1006	3.706433	
4	1	9	52.4			5.246353	
5	2	7	95.8	1946		5.467072	
6	2	19	69.1	1468		6.879806	

7	2	5	59.3	1627		7.698634	
8	2	8	83.3	1469		9.247126	
9	3	14	52.6	1009	1624	10.43905	
10	1	12	65.2			11.42289	

Bin5 Statistics 13

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	11	97.8	1723		0.602017	1
1	3	12	51.3	1402	1950	0.959649	
2	2	9	60.9	1848		2.162798	
3	1	13	57.7			2.908309	
4	2	8	54.1	1094		3.722586	
5	1	18	64.5			5.405706	
6	3	5	88	1352	1403	5.649045	
7	3	12	70.5	1302	1674	7.20656	
8	1	5	80.4			7.792455	
9	2	9	80.2	1180		8.436277	
10	2	9	83.2	1758		9.65034	
11	2	11	79.7	1594		10.37476	
12	2	11	58.7	1523		11.30054	

Bin5 Statistics 14

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	19	80.3	1932		0.936696	1
1	1	13	76.9			1.715477	
2	3	14	94.9	1723	1744	2.976905	
3	2	19	72.8	1645		3.828994	
4	2	6	85.5	1703		5.42614	
5	2	18	99.9	1149		5.887709	
6	2	6	89.1	1238		7.247129	
7	2	6	82.5	1821		8.459633	
8	2	9	71	1248		9.610318	
9	1	7	52.3			10.50683	
10	2	19	82	1387		11.48093	

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	61.7	1091		0.327806	1
1	2	8	68.8	1093		1.153455	
2	2	13	82.3	1771		1.823189	
3	2	18	86.3	1669		2.376992	
4	2	15	79.3	1870		2.730972	
5	2	11	65.1	1918		3.265547	
6	3	14	54.9	1875	1480	3.979337	
7	3	14	70	1323	1885	4.615641	
8	2	6	67.6	1195		5.524929	
9	2	17	94.2	1463		6.039694	
10	2	14	61.6	1061		6.591932	
11	2	16	73.2	1325		7.506196	
12	1	17	71.5			8.147216	
13	2	16	50.4	1191		8.759598	
14	1	15	72			9.169435	
15	2	14	97.3	1362		9.594501	
16	2	8	82.7	1215		10.23687	
17	1	14	82.1			11.09504	
18	3	8	71.7	1571	1367	11.43462	

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	11	97.6	1187		0.649548	1
1	3	19	79.7	1600	1619	1.385546	
2	2	14	95.7	1908		3.000536	
3	1	14	63.8			4.425635	
4	1	13	75			5.088675	
5	2	10	60.2	1370		6.229894	
6	1	20	67.9			7.342429	
7	1	19	61.9			8.687321	
8	2	7	80.4	1652		10.19523	
9	2	6	72.1	1959		10.90047	

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	13	54.2	1330		0.288572	1
1	1	19	61.3			0.752302	
2	2	6	78.5	1345		1.419912	
3	2	15	92.8	1491		2.20376	
4	2	16	58.7	1569		3.156765	
5	2	16	85.4	1652		3.798212	
6	2	13	58.9	1989		4.564955	
7	2	10	59.8	1297		4.755501	
8	2	16	79.5	1771		5.343775	
9	1	12	93.7			6.586389	
10	1	6	78.5			7.042281	
11	1	17	98.4			7.83952	
12	2	19	62.8	1866		8.366141	
13	1	13	62.1			9.229945	
14	3	17	91.7	1451	1596	9.351418	
15	2	5	86.1	1950		10.65139	
16	1	13	88.6			11.24364	
17	2	17	93.8	1464		11.57391	

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	16	73.2			0.814937	1
1	2	11	98.7	1530		2.540029	
2	1	6	61.8			3.035104	
3	3	9	99.2	1109	1812	4.34667	
4	2	8	63.4	1467		6.233026	
5	3	19	72.4	1807	1903	6.938216	
6	1	13	95.8			8.633318	
7	2	14	63.6	1200		10.23385	
8	2	14	52.3	1872		11.3857	

Bin5 Statistics 19

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	8	80.6	1280	1560	0.415498	1
1	3	17	54.5	1959	1244	1.006237	
2	3	13	72.9	1348	1977	1.652426	
3	1	12	54.7			2.803765	
4	3	15	73.7	1395	1918	3.666512	
5	2	19	87.2	1271		4.016812	
6	1	20	80.3			4.754034	
7	1	7	60.2			5.379089	
8	2	6	92.5	1773		6.689532	
9	1	19	82.7			7.411885	
10	3	10	79.2	1455	1089	7.831555	
11	1	10	78.3			8.391571	
12	1	18	94			9.681222	
13	2	19	75.8	1906		10.05293	
14	3	6	70.8	1798	1013	11.19171	
15	2	9	64	1436		11.51097	

Bin5 Statistics 20

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (µS)	Pulse 2-3 spacing (µS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	11	93.7	1624		0.002808	1
1	2	5	82.6	1059		1.346527	
2	2	7	94.3	1727		1.479071	
3	3	16	90.8	1193	1185	2.338862	
4	2	6	75.7	1255		3.424412	
5	1	8	74.1			3.945845	
6	1	15	61.7			4.737429	
7	2	15	51.4	1483		4.996303	
8	3	6	93.1	1468	1228	5.921278	
9	3	15	69.3	1438	1147	6.585733	
10	1	11	58.3			7.378376	
11	2	11	70.1	1136		8.091729	
12	3	17	73.3	1053	1427	8.860526	
13	2	15	96.3	1108		9.615666	
14	2	12	59.5	1429		10.10455	

15	2	14	77.5	1913		11.25176	
16	3	16	91.2	1476	1480	11.77462	

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	8	86.5	1352		0.111989	1
1	1	14	51.4			0.866439	
2	3	16	52.6	1588	1559	1.750857	
3	2	13	83.4	1249		2.309547	
4	2	18	95.3	1457		2.684286	
5	3	11	71.8	1334	1418	3.498346	
6	2	13	65.5	1715		3.928938	
7	3	6	57.1	1255	1056	4.780065	
8	1	9	69.5			4.942132	
9	3	6	73.4	1832	1340	5.605763	
10	2	11	63.6	1876		6.163135	
11	1	18	59.9			6.676565	
12	2	8	80.4	1601		7.263735	
13	2	8	57.9	1594		7.927038	
14	2	17	72.6	1527		8.567795	
15	1	20	65.9			9.554655	
16	3	17	67.9	1389	1438	9.818859	
17	2	14	89.6	1308		10.7556	
18	2	16	61.1	1533		11.05713	
19	2	16	55.3	1290		11.50441	

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	8	54.1			0.379645	1
1	2	15	58.2	1964		1.670088	
2	2	17	97.1	1195		2.464814	
3	2	20	96.3	1008		2.735206	
4	2	10	55	1412		4.229662	
5	2	16	87.7	1316		4.834853	
6	2	17	81.7	1761		5.199407	
7	3	7	83	1046	1770	6.03689	
8	2	15	94.4	1796		7.495022	
9	2	9	52.6	1722		8.029494	

10	2	10	91.9	1222		9.159563	
11	2	7	76.4	1519		9.440727	
12	1	9	53.8			10.39864	
13	3	6	56.5	1320	1368	11.22085	

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	20	89	1620	1488	0.098258	1
1	2	14	86.4	1909		0.92369	
2	1	18	69.1			1.826193	
3	3	18	63.6	1044	1496	2.620746	
4	3	19	57.4	1972	1391	2.73646	
5	3	13	55.8	1865	1017	3.680873	
6	3	17	58.9	1183	1546	4.466853	
7	1	14	88.2			4.87641	
8	3	12	68.1	1523	1007	5.575483	
9	2	15	97.7	1114		6.069401	
10	2	10	87.2	1478		7.122471	
11	3	7	73	1650	1467	7.63964	
12	2	13	56.6	1853		8.573537	
13	1	7	81.1			8.92474	
14	2	8	66.9	1953		9.39705	
15	3	17	86.8	1005	1684	10.077	
16	2	5	58.8	1264		10.82886	
17	2	15	69.7	1247		11.36466	

Bin5 Statistics 24

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	18	99			0.617499	1
1	3	9	50.9	1600	1125	2.695115	
2	2	10	70.6	1717		3.069585	
3	2	17	75.7	1658		5.731734	
4	1	16	81.2			7.128172	
5	2	9	90.3	1197		8.337598	
6	3	17	93.8	1706	1465	9.066601	
7	2	16	73.2	1594		11.10924	

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	18	84.7	1517	1785	0.935357	1
1	2	19	58.2	1971		2.133914	
2	2	7	81.5	1831		2.69677	
3	2	10	83	1998		4.292944	
4	3	9	85.6	1376	1701	5.593769	
5	2	15	81.5	1144		6.924854	
6	2	17	82.4	1870		8.214107	
7	2	9	98.5	1879		9.372459	
8	3	13	70.1	1410	1829	10.49312	
9	2	6	85.6	1267		11.39506	

Bin5 Statistics 26

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	13	98.9			0.287389	1
1	1	10	61.7			1.449256	
2	2	19	64.8	1751		2.207741	
3	2	13	53.6	1512		3.323178	
4	3	17	73.6	1527	1945	3.698798	
5	2	16	84.6	1108		5.071155	
6	2	12	94.6	1525		5.724925	
7	2	17	73.5	1250		6.165501	
8	3	8	52.1	1106	1137	7.505996	
9	2	17	87.5	1245		8.271505	
10	2	17	68	1928		8.87198	
11	1	8	88.5			9.49182	
12	2	20	89.2	1387		10.61532	
13	2	18	74.8	1480		11.56708	

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	12	98			0.614253	1
1	2	7	74.9	1088		1.481114	
2	2	17	93.7	1459		1.991648	
3	3	7	82.4	1225	1913	3.60373	

4	1	12	81.9			3.961482	
5	3	11	73.8	1245	1764	4.826151	
6	2	13	84.2	1881		6.126971	
7	2	11	86.1	1835		7.048869	
8	1	14	64.5			7.586563	
9	2	19	87.2	1598		8.666593	
10	1	8	53.1			10.10995	
11	2	14	82.1	1294		10.63283	
12	3	6	67.9	1250	1838	11.32518	

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	6	62.9	1657	1139	0.228144	
1	3	15	65	1679	1880	0.912574	
2	2	20	71.8	1248		1.579878	
3	2	17	60.4	1215		1.997959	
4	1	16	56.2			3.062003	
5	3	13	89.4	1934	1565	3.316295	
6	3	16	88.1	1966	1715	4.039925	
7	3	17	55.4	1974	1694	5.009243	
8	1	5	59.3			5.078954	
9	2	5	88.1	1594		6.052067	
10	2	7	54.7	1679		6.898391	
11	2	17	58.2	1695		7.560367	
12	3	10	51.8	1860	1909	8.072097	
13	3	18	61.7	1067	1243	8.35067	
14	2	12	63.6	1533		9.405647	
15	2	20	54.5	1332		10.07202	
16	2	5	59.7	1698		10.5732	
17	2	7	65.8	1701		10.98855	
18	1	18	61.5			11.37143	

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	19	61	1679	1102	0.507181	1
1	1	15	81.9			1.323626	
2	1	19	99.2			3.148128	
3	1	6	66.3			4.290811	

4	2	19	51.3	1705		4.92128	
5	3	18	74.6	1492	1857	6.477003	
6	3	6	63.7	1654	1920	6.813186	
7	2	10	56.8	1958		7.691948	
8	2	20	67.4	1881		9.212021	
9	2	11	62.7	1507		10.11494	
10	1	17	84.2			10.94801	

Bin5 Statistics 30

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	13	67	1054		0.689799	
1	3	16	97.2	1522	1001	1.564596	
2	1	16	78.5			2.499923	
3	1	13	71.9			3.129055	
4	1	9	91.8			3.592503	
5	2	15	85.5	1010		4.453654	
6	2	5	57.1	1514		5.221373	
7	2	13	70.7	1533		6.689955	
8	3	5	73.5	1181	1281	7.465238	
9	2	13	92	1556		7.851989	
10	2	12	54.6	1784		8.836273	
11	1	7	97.6			9.71699	
12	2	19	63.3	1980		10.63976	
13	2	6	99.6	1554		11.3577	

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	5309	9	1	333	1	5646.0, 5596.0, 5721.0, 5557.0, 5635.0, 5483.0, 5399.0, 5584.0, 5477.0, 5460.0, 5664.0, 5439.0, 5332.0, 5432.0, 5421.0, 5573.0, 5587.0, 5628.0, 5604.0, 5506.0, 5356.0, 5372.0, 5630.0, 5309.0, 5558.0, 5431.0, 5348.0, 5396.0, 5629.0, 5724.0, 5393.0, 5678.0, 5499.0, 5464.0, 5592.0, 5513.0, 5293.0, 5414.0, 5524.0, 5334.0, 5256.0, 5576.0, 5453.0, 5615.0, 5561.0, 5666.0, 5663.0, 5408.0, 5670.0, 5423.0, 5706.0, 5634.0, 5525.0, 5454.0, 5538.0, 5263.0, 5691.0, 5412.0, 5522.0, 5508.0, 5600.0, 5657.0, 5257.0, 5641.0, 5389.0, 5491.0, 5484.0, 5637.0, 5306.0, 5564.0, 5543.0, 5671.0, 5467.0, 5668.0, 5495.0, 5269.0, 5392.0, 5722.0, 5279.0, 5611.0, 5380.0, 5357.0, 5368.0, 5473.0, 5690.0, 5253.0, 5653.0, 5627.0, 5531.0, 5685.0, 5590.0, 5319.0, 5713.0, 5556.0, 5351.0, 5254.0, 5502.0, 5625.0, 5429.0, 5583.0 (number of hits: 2)
2	5309	9	1	333	1	5274.0, 5601.0, 5433.0, 5298.0, 5446.0, 5354.0, 5260.0, 5465.0, 5398.0, 5710.0, 5611.0, 5679.0, 5315.0, 5386.0, 5525.0, 5455.0, 5277.0, 5323.0, 5348.0, 5668.0, 5367.0, 5619.0, 5682.0, 5393.0, 5307.0, 5421.0, 5685.0, 5316.0, 5344.0, 5687.0, 5280.0, 5407.0, 5467.0, 5508.0, 5389.0, 5723.0, 5416.0, 5516.0, 5432.0, 5629.0, 5481.0, 5600.0, 5527.0, 5406.0, 5521.0, 5680.0, 5575.0, 5556.0, 5388.0, 5669.0, 5405.0, 5319.0, 5507.0, 5568.0, 5537.0, 5401.0, 5347.0, 5410.0, 5581.0, 5549.0, 5289.0, 5645.0, 5584.0, 5321.0, 5317.0, 5605.0, 5616.0, 5593.0, 5696.0, 5670.0, 5412.0, 5343.0, 5305.0, 5462.0, 5376.0, 5461.0, 5498.0, 5488.0, 5534.0, 5256.0, 5282.0, 5268.0, 5399.0, 5326.0, 5496.0, 5392.0, 5302.0, 5445.0, 5637.0, 5504.0, 5647.0, 5286.0, 5487.0, 5418.0, 5441.0, 5533.0, 5678.0, 5715.0, 5439.0, 5674.0 (number of hits: 4)
3	5308	9	1	333	1	5527.0, 5267.0, 5616.0, 5400.0, 5344.0, 5710.0, 5361.0, 5288.0, 5593.0, 5570.0, 5435.0, 5478.0, 5346.0, 5540.0, 5260.0, 5463.0, 5579.0, 5426.0, 5504.0, 5261.0, 5548.0, 5716.0, 5298.0, 5388.0, 5629.0, 5283.0, 5652.0, 5552.0, 5687.0, 5711.0, 5445.0, 5273.0, 5254.0, 5466.0, 5485.0, 5618.0, 5358.0, 5324.0, 5340.0, 5530.0, 5259.0, 5677.0, 5507.0, 5335.0, 5362.0, 5373.0, 5454.0, 5556.0, 5285.0, 5385.0, 5550.0, 5452.0, 5672.0, 5576.0, 5332.0, 5617.0, 5473.0, 5316.0, 5496.0, 5622.0, 5442.0, 5266.0, 5393.0, 5541.0, 5262.0, 5421.0, 5676.0, 5558.0, 5341.0, 5424.0, 5525.0, 5690.0, 5470.0, 5692.0, 5705.0, 5418.0, 5277.0, 5513.0, 5537.0, 5512.0, 5289.0, 5689.0, 5271.0, 5392.0, 5605.0, 5459.0, 5671.0, 5721.0, 5502.0, 5275.0, 5293.0, 5375.0, 5251.0, 5371.0, 5529.0, 5417.0, 5252.0, 5360.0, 5654.0, 5668.0 (number of hits: 2)
4	5307	9	1	333	1	5321.0, 5255.0, 5626.0, 5469.0, 5304.0, 5609.0, 5290.0, 5459.0, 5386.0, 5712.0, 5528.0, 5260.0, 5575.0, 5357.0, 5656.0, 5336.0, 5422.0, 5291.0, 5301.0, 5578.0, 5376.0, 5723.0, 5284.0, 5595.0, 5521.0, 5406.0, 5586.0, 5644.0, 5600.0, 5539.0, 5672.0, 5272.0, 5402.0, 5368.0, 5503.0, 5384.0, 5392.0, 5584.0, 5416.0, 5622.0, 5377.0, 5692.0, 5641.0, 5632.0, 5271.0, 5716.0, 5259.0, 5278.0, 5501.0,

						5507.0, 5562.0, 5322.0, 5480.0, 5669.0, 5670.0, 5517.0, 5550.0, 5535.0, 5596.0, 5483.0, 5720.0, 5505.0, 5338.0, 5375.0, 5678.0, 5292.0, 5396.0, 5713.0, 5580.0, 5554.0, 5724.0, 5281.0, 5711.0, 5296.0, 5634.0, 5614.0, 5444.0, 5547.0, 5646.0, 5344.0, 5294.0, 5689.0, 5706.0, 5570.0, 5333.0, 5379.0, 5593.0, 5611.0, 5443.0, 5399.0, 5666.0, 5519.0, 5540.0, 5560.0, 5463.0, 5414.0, 5447.0, 5268.0, 5532.0, 5715.0 (number of hits: 7)
5	5306	9	1	333	1	5440.0, 5363.0, 5616.0, 5417.0, 5464.0, 5483.0, 5556.0, 5623.0, 5573.0, 5383.0, 5683.0, 5508.0, 5280.0, 5324.0, 5370.0, 5472.0, 5502.0, 5650.0, 5588.0, 5395.0, 5608.0, 5711.0, 5712.0, 5338.0, 5455.0, 5253.0, 5637.0, 5251.0, 5282.0, 5581.0, 5304.0, 5276.0, 5619.0, 5388.0, 5340.0, 5305.0, 5339.0, 5705.0, 5435.0, 5381.0, 5456.0, 5303.0, 5298.0, 5446.0, 5299.0, 5437.0, 5399.0, 5321.0, 5610.0, 5285.0, 5312.0, 5715.0, 5449.0, 5530.0, 5462.0, 5458.0, 5354.0, 5569.0, 5431.0, 5384.0, 5315.0, 5275.0, 5580.0, 5428.0, 5701.0, 5528.0, 5694.0, 5575.0, 5621.0, 5330.0, 5603.0, 5290.0, 5526.0, 5310.0, 5671.0, 5255.0, 5713.0, 5281.0, 5719.0, 5492.0, 5693.0, 5420.0, 5535.0, 5265.0, 5551.0, 5665.0, 5311.0, 5450.0, 5632.0, 5467.0, 5602.0, 5601.0, 5721.0, 5655.0, 5722.0, 5397.0, 5690.0, 5309.0, 5364.0, 5444.0 (number of hits: 6)
6	5305	9	1	333	1	5622.0, 5304.0, 5625.0, 5411.0, 5487.0, 5509.0, 5679.0, 5700.0, 5258.0, 5707.0, 5366.0, 5308.0, 5693.0, 5559.0, 5637.0, 5616.0, 5319.0, 5472.0, 5376.0, 5562.0, 5617.0, 5545.0, 5269.0, 5650.0, 5583.0, 5323.0, 5657.0, 5440.0, 5557.0, 5663.0, 5278.0, 5510.0, 5560.0, 5528.0, 5504.0, 5555.0, 5696.0, 5267.0, 5508.0, 5627.0, 5450.0, 5558.0, 5428.0, 5294.0, 5639.0, 5527.0, 5311.0, 5482.0, 5694.0, 5630.0, 5339.0, 5608.0, 5675.0, 5710.0, 5512.0, 5331.0, 5404.0, 5607.0, 5340.0, 5477.0, 5494.0, 5493.0, 5408.0, 5678.0, 5683.0, 5490.0, 5255.0, 5638.0, 5561.0, 5596.0, 5540.0, 5502.0, 5681.0, 5483.0, 5314.0, 5688.0, 5705.0, 5535.0, 5362.0, 5642.0, 5363.0, 5407.0, 5443.0, 5410.0, 5351.0, 5458.0, 5573.0, 5382.0, 5462.0, 5442.0, 5585.0, 5372.0, 5556.0, 5367.0, 5273.0, 5488.0, 5280.0, 5277.0, 5708.0, 5321.0 (number of hits: 3)
7	5304	9	1	333	1	5631.0, 5601.0, 5514.0, 5333.0, 5256.0, 5315.0, 5324.0, 5608.0, 5460.0, 5415.0, 5704.0, 5272.0, 5684.0, 5509.0, 5689.0, 5422.0, 5723.0, 5594.0, 5424.0, 5488.0, 5423.0, 5661.0, 5574.0, 5563.0, 5535.0, 5572.0, 5531.0, 5417.0, 5515.0, 5297.0, 5555.0, 5271.0, 5362.0, 5325.0, 5356.0, 5507.0, 5557.0, 5446.0, 5618.0, 5722.0, 5260.0, 5521.0, 5437.0, 5373.0, 5408.0, 5587.0, 5570.0, 5420.0, 5290.0, 5468.0, 5597.0, 5578.0, 5380.0, 5294.0, 5620.0, 5547.0, 5666.0, 5454.0, 5525.0, 5701.0, 5612.0, 5562.0, 5411.0, 5309.0, 5384.0, 5677.0, 5404.0, 5274.0, 5330.0, 5692.0, 5495.0, 5662.0, 5564.0, 5537.0, 5350.0, 5357.0, 5550.0, 5699.0, 5448.0, 5416.0, 5724.0, 5671.0, 5313.0, 5703.0, 5349.0, 5282.0, 5551.0, 5413.0, 5421.0, 5277.0, 5617.0, 5268.0, 5512.0, 5575.0, 5331.0, 5695.0, 5419.0, 5577.0, 5508.0, 5430.0 (number of hits: 3)
8	5303	9	1	333	1	5418.0, 5501.0, 5321.0, 5552.0, 5353.0, 5610.0, 5261.0, 5385.0, 5522.0, 5527.0, 5640.0, 5661.0, 5360.0, 5538.0, 5345.0, 5284.0, 5515.0, 5487.0, 5342.0, 5472.0, 5278.0, 5568.0, 5579.0, 5348.0, 5718.0, 5253.0, 5420.0, 5256.0, 5308.0, 5638.0, 5524.0, 5421.0, 5382.0, 5300.0, 5343.0,

						5512.0, 5615.0, 5671.0, 5288.0, 5705.0, 5267.0, 5358.0, 5355.0, 5356.0, 5380.0, 5621.0, 5323.0, 5453.0, 5551.0, 5398.0, 5271.0, 5282.0, 5647.0, 5351.0, 5585.0, 5617.0, 5275.0, 5369.0, 5572.0, 5257.0, 5389.0, 5533.0, 5486.0, 5403.0, 5471.0, 5614.0, 5477.0, 5330.0, 5528.0, 5505.0, 5580.0, 5678.0, 5457.0, 5497.0, 5704.0, 5503.0, 5598.0, 5628.0, 5645.0, 5697.0, 5719.0, 5689.0, 5694.0, 5634.0, 5541.0, 5605.0, 5595.0, 5388.0, 5682.0, 5584.0, 5639.0, 5489.0, 5427.0, 5491.0, 5565.0, 5452.0, 5504.0, 5365.0, 5507.0, 5383.0 (number of hits: 2)
9	5302	9	1	333	1	5476.0, 5686.0, 5575.0, 5587.0, 5518.0, 5630.0, 5506.0, 5262.0, 5267.0, 5516.0, 5645.0, 5359.0, 5341.0, 5710.0, 5677.0, 5261.0, 5412.0, 5611.0, 5501.0, 5652.0, 5400.0, 5286.0, 5499.0, 5388.0, 5332.0, 5557.0, 5502.0, 5573.0, 5577.0, 5433.0, 5295.0, 5618.0, 5384.0, 5442.0, 5659.0, 5669.0, 5350.0, 5619.0, 5580.0, 5642.0, 5456.0, 5605.0, 5614.0, 5299.0, 5318.0, 5637.0, 5329.0, 5643.0, 5602.0, 5413.0, 5632.0, 5607.0, 5306.0, 5425.0, 5408.0, 5374.0, 5348.0, 5639.0, 5415.0, 5304.0, 5416.0, 5278.0, 5479.0, 5620.0, 5393.0, 5440.0, 5401.0, 5715.0, 5470.0, 5695.0, 5578.0, 5706.0, 5520.0, 5344.0, 5545.0, 5358.0, 5539.0, 5377.0, 5533.0, 5482.0, 5494.0, 5703.0, 5505.0, 5387.0, 5558.0, 5690.0, 5544.0, 5289.0, 5548.0, 5465.0, 5689.0, 5430.0, 5509.0, 5376.0, 5285.0, 5328.0, 5702.0, 5629.0, 5335.0, 5343.0 (number of hits: 4)
10	5301	9	1	333	1	5391.0, 5263.0, 5442.0, 5721.0, 5547.0, 5594.0, 5490.0, 5543.0, 5532.0, 5305.0, 5604.0, 5255.0, 5556.0, 5704.0, 5451.0, 5369.0, 5591.0, 5686.0, 5566.0, 5400.0, 5444.0, 5284.0, 5693.0, 5346.0, 5419.0, 5465.0, 5608.0, 5347.0, 5373.0, 5392.0, 5612.0, 5528.0, 5675.0, 5592.0, 5282.0, 5575.0, 5427.0, 5260.0, 5478.0, 5291.0, 5618.0, 5295.0, 5450.0, 5475.0, 5285.0, 5526.0, 5504.0, 5542.0, 5609.0, 5275.0, 5722.0, 5624.0, 5607.0, 5489.0, 5312.0, 5561.0, 5382.0, 5656.0, 5433.0, 5571.0, 5456.0, 5521.0, 5563.0, 5428.0, 5387.0, 5386.0, 5403.0, 5314.0, 5389.0, 5375.0, 5550.0, 5698.0, 5381.0, 5446.0, 5492.0, 5423.0, 5546.0, 5253.0, 5552.0, 5483.0, 5488.0, 5432.0, 5570.0, 5337.0, 5517.0, 5668.0, 5384.0, 5290.0, 5308.0, 5487.0, 5613.0, 5679.0, 5322.0, 5696.0, 5714.0, 5329.0, 5705.0, 5544.0, 5412.0, 5587.0 (number of hits: 5)
11	5300	9	1	333	1	5309.0, 5657.0, 5579.0, 5390.0, 5492.0, 5337.0, 5546.0, 5681.0, 5532.0, 5265.0, 5382.0, 5616.0, 5508.0, 5327.0, 5259.0, 5518.0, 5660.0, 5357.0, 5423.0, 5396.0, 5464.0, 5425.0, 5715.0, 5328.0, 5291.0, 5559.0, 5612.0, 5606.0, 5708.0, 5466.0, 5604.0, 5697.0, 5297.0, 5506.0, 5514.0, 5702.0, 5590.0, 5713.0, 5436.0, 5573.0, 5684.0, 5274.0, 5602.0, 5457.0, 5439.0, 5481.0, 5599.0, 5263.0, 5619.0, 5353.0, 5534.0, 5563.0, 5459.0, 5593.0, 5720.0, 5548.0, 5272.0, 5458.0, 5535.0, 5275.0, 5589.0, 5322.0, 5495.0, 5350.0, 5264.0, 5424.0, 5526.0, 5570.0, 5716.0, 5700.0, 5554.0, 5440.0, 5696.0, 5650.0, 5334.0, 5501.0, 5578.0, 5531.0, 5325.0, 5551.0, 5623.0, 5540.0, 5432.0, 5595.0, 5420.0, 5444.0, 5426.0, 5523.0, 5516.0, 5266.0, 5596.0, 5413.0, 5588.0, 5556.0, 5395.0, 5524.0, 5295.0, 5460.0, 5404.0, 5304.0 (number of hits: 4)
12	5299	9	1	333	1	5269.0, 5544.0, 5262.0, 5520.0, 5584.0, 5724.0, 5661.0, 5576.0, 5467.0, 5546.0, 5547.0, 5673.0, 5662.0, 5510.0, 5721.0, 5632.0, 5357.0, 5672.0, 5412.0, 5608.0, 5307.0,

						5348.0, 5349.0, 5532.0, 5666.0, 5473.0, 5712.0, 5299.0, 5686.0, 5515.0, 5418.0, 5708.0, 5415.0, 5369.0, 5499.0, 5330.0, 5548.0, 5485.0, 5513.0, 5551.0, 5460.0, 5291.0, 5334.0, 5699.0, 5450.0, 5472.0, 5442.0, 5674.0, 5488.0, 5344.0, 5381.0, 5709.0, 5696.0, 5463.0, 5420.0, 5572.0, 5690.0, 5487.0, 5264.0, 5695.0, 5575.0, 5449.0, 5646.0, 5285.0, 5545.0, 5346.0, 5631.0, 5390.0, 5333.0, 5286.0, 5719.0, 5373.0, 5682.0, 5359.0, 5698.0, 5404.0, 5628.0, 5317.0, 5338.0, 5308.0, 5277.0, 5577.0, 5266.0, 5272.0, 5605.0, 5615.0, 5622.0, 5351.0, 5332.0, 5288.0, 5590.0, 5497.0, 5387.0, 5455.0, 5479.0, 5509.0, 5327.0, 5679.0, 5476.0, 5461.0 (number of hits: 4)
13	5298	9	1	333	1	5296.0, 5623.0, 5378.0, 5535.0, 5264.0, 5420.0, 5258.0, 5255.0, 5528.0, 5379.0, 5702.0, 5361.0, 5363.0, 5471.0, 5488.0, 5540.0, 5348.0, 5553.0, 5545.0, 5589.0, 5392.0, 5397.0, 5401.0, 5672.0, 5518.0, 5557.0, 5549.0, 5407.0, 5649.0, 5473.0, 5587.0, 5616.0, 5600.0, 5598.0, 5634.0, 5422.0, 5334.0, 5673.0, 5637.0, 5644.0, 5328.0, 5337.0, 5497.0, 5619.0, 5643.0, 5580.0, 5706.0, 5336.0, 5259.0, 5563.0, 5275.0, 5610.0, 5374.0, 5515.0, 5707.0, 5385.0, 5628.0, 5308.0, 5320.0, 5354.0, 5324.0, 5262.0, 5622.0, 5647.0, 5696.0, 5409.0, 5410.0, 5402.0, 5512.0, 5350.0, 5280.0, 5356.0, 5398.0, 5547.0, 5314.0, 5701.0, 5368.0, 5415.0, 5267.0, 5474.0, 5697.0, 5287.0, 5519.0, 5435.0, 5291.0, 5670.0, 5312.0, 5703.0, 5257.0, 5431.0, 5568.0, 5307.0, 5691.0, 5522.0, 5502.0, 5281.0, 5642.0, 5377.0, 5290.0, 5395.0 (number of hits: 5)
14	5297	9	1	333	1	5364.0, 5436.0, 5365.0, 5523.0, 5333.0, 5392.0, 5598.0, 5654.0, 5561.0, 5649.0, 5487.0, 5539.0, 5715.0, 5700.0, 5634.0, 5274.0, 5624.0, 5402.0, 5276.0, 5619.0, 5438.0, 5455.0, 5661.0, 5288.0, 5263.0, 5530.0, 5481.0, 5291.0, 5347.0, 5457.0, 5686.0, 5261.0, 5608.0, 5319.0, 5707.0, 5599.0, 5456.0, 5513.0, 5615.0, 5273.0, 5510.0, 5626.0, 5516.0, 5533.0, 5408.0, 5660.0, 5704.0, 5648.0, 5518.0, 5310.0, 5531.0, 5596.0, 5454.0, 5680.0, 5349.0, 5563.0, 5428.0, 5300.0, 5527.0, 5348.0, 5314.0, 5582.0, 5670.0, 5556.0, 5622.0, 5325.0, 5341.0, 5618.0, 5502.0, 5393.0, 5414.0, 5713.0, 5636.0, 5444.0, 5569.0, 5724.0, 5378.0, 5497.0, 5504.0, 5371.0, 5515.0, 5324.0, 5345.0, 5257.0, 5577.0, 5525.0, 5294.0, 5357.0, 5611.0, 5709.0, 5297.0, 5396.0, 5445.0, 5370.0, 5304.0, 5316.0, 5674.0, 5583.0, 5338.0, 5651.0 (number of hits: 5)
15	5296	9	1	333	1	5276.0, 5515.0, 5549.0, 5600.0, 5605.0, 5610.0, 5334.0, 5696.0, 5357.0, 5417.0, 5631.0, 5414.0, 5551.0, 5269.0, 5526.0, 5356.0, 5510.0, 5259.0, 5537.0, 5413.0, 5578.0, 5707.0, 5492.0, 5355.0, 5700.0, 5621.0, 5288.0, 5648.0, 5627.0, 5280.0, 5374.0, 5687.0, 5694.0, 5267.0, 5461.0, 5595.0, 5450.0, 5606.0, 5522.0, 5270.0, 5412.0, 5658.0, 5684.0, 5580.0, 5565.0, 5562.0, 5584.0, 5268.0, 5491.0, 5527.0, 5401.0, 5256.0, 5332.0, 5579.0, 5397.0, 5459.0, 5547.0, 5609.0, 5618.0, 5435.0, 5716.0, 5449.0, 5598.0, 5596.0, 5497.0, 5604.0, 5544.0, 5338.0, 5542.0, 5434.0, 5686.0, 5529.0, 5452.0, 5420.0, 5360.0, 5568.0, 5406.0, 5389.0, 5546.0, 5525.0, 5456.0, 5652.0, 5470.0, 5617.0, 5337.0, 5534.0, 5581.0, 5620.0, 5583.0, 5378.0, 5285.0, 5714.0, 5643.0, 5511.0, 5373.0, 5320.0, 5471.0, 5313.0, 5409.0, 5303.0 (number of hits: 1)
16	5295	9	1	333	1	5393.0, 5510.0, 5513.0, 5453.0, 5635.0, 5444.0, 5363.0,

						5620.0, 5411.0, 5398.0, 5351.0, 5704.0, 5317.0, 5304.0, 5461.0, 5285.0, 5708.0, 5604.0, 5603.0, 5361.0, 5563.0, 5586.0, 5275.0, 5387.0, 5581.0, 5376.0, 5598.0, 5284.0, 5696.0, 5494.0, 5334.0, 5543.0, 5364.0, 5712.0, 5592.0, 5356.0, 5443.0, 5606.0, 5716.0, 5591.0, 5286.0, 5467.0, 5280.0, 5299.0, 5607.0, 5353.0, 5642.0, 5687.0, 5328.0, 5559.0, 5427.0, 5472.0, 5477.0, 5631.0, 5326.0, 5437.0, 5318.0, 5525.0, 5629.0, 5660.0, 5636.0, 5577.0, 5339.0, 5541.0, 5469.0, 5549.0, 5399.0, 5283.0, 5486.0, 5401.0, 5651.0, 5536.0, 5589.0, 5527.0, 5491.0, 5534.0, 5532.0, 5601.0, 5422.0, 5415.0, 5699.0, 5663.0, 5655.0, 5274.0, 5677.0, 5528.0, 5612.0, 5270.0, 5646.0, 5656.0, 5259.0, 5697.0, 5700.0, 5688.0, 5524.0, 5366.0, 5492.0, 5487.0, 5721.0, 5632.0 (number of hits: 2)
17	5294	9	1	333	1	5371.0, 5662.0, 5673.0, 5687.0, 5260.0, 5694.0, 5390.0, 5409.0, 5256.0, 5380.0, 5470.0, 5561.0, 5640.0, 5665.0, 5570.0, 5562.0, 5713.0, 5290.0, 5319.0, 5316.0, 5588.0, 5271.0, 5455.0, 5312.0, 5567.0, 5427.0, 5329.0, 5685.0, 5701.0, 5342.0, 5502.0, 5441.0, 5338.0, 5308.0, 5658.0, 5423.0, 5486.0, 5717.0, 5597.0, 5386.0, 5250.0, 5289.0, 5401.0, 5589.0, 5616.0, 5548.0, 5688.0, 5639.0, 5375.0, 5288.0, 5495.0, 5394.0, 5682.0, 5420.0, 5497.0, 5373.0, 5349.0, 5557.0, 5544.0, 5305.0, 5465.0, 5374.0, 5359.0, 5563.0, 5704.0, 5541.0, 5377.0, 5715.0, 5275.0, 5627.0, 5698.0, 5630.0, 5358.0, 5343.0, 5592.0, 5689.0, 5535.0, 5566.0, 5538.0, 5334.0, 5709.0, 5584.0, 5439.0, 5678.0, 5568.0, 5467.0, 5328.0, 5326.0, 5416.0, 5331.0, 5466.0, 5510.0, 5521.0, 5295.0, 5291.0, 5611.0, 5355.0, 5522.0, 5607.0, 5488.0 (number of hits: 5)
18	5293	9	1	333	1	5445.0, 5524.0, 5323.0, 5543.0, 5410.0, 5317.0, 5453.0, 5639.0, 5675.0, 5648.0, 5379.0, 5682.0, 5465.0, 5423.0, 5376.0, 5703.0, 5579.0, 5260.0, 5282.0, 5536.0, 5689.0, 5400.0, 5482.0, 5681.0, 5517.0, 5441.0, 5321.0, 5624.0, 5569.0, 5422.0, 5409.0, 5292.0, 5591.0, 5527.0, 5686.0, 5329.0, 5721.0, 5261.0, 5380.0, 5518.0, 5267.0, 5638.0, 5308.0, 5381.0, 5488.0, 5473.0, 5550.0, 5649.0, 5702.0, 5448.0, 5471.0, 5337.0, 5366.0, 5637.0, 5621.0, 5446.0, 5631.0, 5401.0, 5542.0, 5365.0, 5342.0, 5458.0, 5692.0, 5654.0, 5632.0, 5322.0, 5644.0, 5720.0, 5574.0, 5616.0, 5522.0, 5432.0, 5431.0, 5537.0, 5529.0, 5521.0, 5269.0, 5442.0, 5464.0, 5687.0, 5519.0, 5344.0, 5399.0, 5345.0, 5428.0, 5696.0, 5444.0, 5528.0, 5440.0, 5264.0, 5662.0, 5683.0, 5565.0, 5480.0, 5463.0, 5709.0, 5320.0, 5575.0, 5486.0, 5434.0 (number of hits: 2)
19	5292	9	1	333	1	5412.0, 5266.0, 5520.0, 5642.0, 5397.0, 5709.0, 5375.0, 5345.0, 5390.0, 5665.0, 5561.0, 5522.0, 5580.0, 5465.0, 5293.0, 5679.0, 5382.0, 5335.0, 5475.0, 5451.0, 5317.0, 5593.0, 5511.0, 5678.0, 5379.0, 5692.0, 5448.0, 5710.0, 5458.0, 5524.0, 5316.0, 5453.0, 5363.0, 5653.0, 5698.0, 5649.0, 5426.0, 5626.0, 5558.0, 5588.0, 5612.0, 5693.0, 5519.0, 5483.0, 5595.0, 5372.0, 5697.0, 5707.0, 5334.0, 5659.0, 5438.0, 5373.0, 5300.0, 5569.0, 5289.0, 5312.0, 5410.0, 5631.0, 5566.0, 5308.0, 5484.0, 5622.0, 5304.0, 5271.0, 5700.0, 5392.0, 5301.0, 5513.0, 5662.0, 5281.0, 5668.0, 5518.0, 5594.0, 5258.0, 5564.0, 5414.0, 5638.0, 5381.0, 5578.0, 5682.0, 5384.0, 5632.0, 5618.0, 5456.0, 5396.0, 5723.0, 5499.0, 5417.0, 5369.0, 5291.0, 5544.0, 5602.0, 5391.0, 5339.0, 5555.0, 5706.0, 5479.0, 5263.0,

						5455.0, 5481.0 (number of hits: 6)
20	5291	9	1	333	1	5537.0, 5645.0, 5522.0, 5494.0, 5500.0, 5648.0, 5458.0, 5418.0, 5376.0, 5540.0, 5308.0, 5598.0, 5501.0, 5299.0, 5415.0, 5625.0, 5435.0, 5505.0, 5512.0, 5419.0, 5520.0, 5510.0, 5564.0, 5574.0, 5524.0, 5455.0, 5352.0, 5451.0, 5297.0, 5696.0, 5491.0, 5332.0, 5661.0, 5336.0, 5273.0, 5310.0, 5635.0, 5719.0, 5258.0, 5416.0, 5636.0, 5300.0, 5302.0, 5478.0, 5646.0, 5517.0, 5278.0, 5354.0, 5614.0, 5379.0, 5613.0, 5402.0, 5514.0, 5393.0, 5714.0, 5356.0, 5475.0, 5267.0, 5687.0, 5464.0, 5654.0, 5674.0, 5642.0, 5627.0, 5680.0, 5481.0, 5457.0, 5495.0, 5659.0, 5604.0, 5374.0, 5265.0, 5609.0, 5333.0, 5592.0, 5345.0, 5717.0, 5618.0, 5631.0, 5484.0, 5639.0, 5252.0, 5275.0, 5365.0, 5678.0, 5633.0, 5325.0, 5699.0, 5721.0, 5350.0, 5279.0, 5453.0, 5578.0, 5673.0, 5382.0, 5304.0, 5414.0, 5286.0, 5638.0, 5394.0 (number of hits: 6)
21	5290	9	1	333	1	5445.0, 5322.0, 5616.0, 5553.0, 5283.0, 5565.0, 5583.0, 5289.0, 5338.0, 5588.0, 5439.0, 5721.0, 5344.0, 5695.0, 5608.0, 5702.0, 5292.0, 5493.0, 5527.0, 5497.0, 5311.0, 5642.0, 5314.0, 5671.0, 5309.0, 5345.0, 5325.0, 5464.0, 5440.0, 5566.0, 5562.0, 5723.0, 5568.0, 5681.0, 5694.0, 5704.0, 5724.0, 5461.0, 5621.0, 5486.0, 5596.0, 5690.0, 5607.0, 5354.0, 5442.0, 5555.0, 5589.0, 5650.0, 5576.0, 5598.0, 5441.0, 5458.0, 5466.0, 5276.0, 5720.0, 5711.0, 5599.0, 5488.0, 5270.0, 5363.0, 5597.0, 5639.0, 5651.0, 5335.0, 5627.0, 5434.0, 5346.0, 5319.0, 5451.0, 5534.0, 5722.0, 5316.0, 5633.0, 5349.0, 5519.0, 5277.0, 5567.0, 5432.0, 5705.0, 5268.0, 5350.0, 5688.0, 5504.0, 5549.0, 5317.0, 5661.0, 5590.0, 5618.0, 5404.0, 5640.0, 5330.0, 5449.0, 5465.0, 5396.0, 5429.0, 5719.0, 5547.0, 5455.0, 5669.0, 5365.0 (number of hits: 1)
22	5291	9	1	333	1	5466.0, 5567.0, 5270.0, 5377.0, 5495.0, 5600.0, 5513.0, 5300.0, 5301.0, 5624.0, 5433.0, 5544.0, 5508.0, 5665.0, 5619.0, 5542.0, 5273.0, 5368.0, 5677.0, 5392.0, 5399.0, 5439.0, 5664.0, 5514.0, 5403.0, 5293.0, 5364.0, 5539.0, 5284.0, 5565.0, 5675.0, 5324.0, 5505.0, 5414.0, 5465.0, 5666.0, 5679.0, 5283.0, 5722.0, 5540.0, 5445.0, 5333.0, 5684.0, 5500.0, 5471.0, 5351.0, 5617.0, 5490.0, 5339.0, 5706.0, 5707.0, 5329.0, 5261.0, 5695.0, 5524.0, 5447.0, 5289.0, 5492.0, 5360.0, 5388.0, 5518.0, 5367.0, 5394.0, 5525.0, 5491.0, 5658.0, 5527.0, 5661.0, 5547.0, 5320.0, 5427.0, 5670.0, 5347.0, 5591.0, 5690.0, 5258.0, 5468.0, 5655.0, 5416.0, 5313.0, 5338.0, 5443.0, 5569.0, 5520.0, 5354.0, 5574.0, 5357.0, 5269.0, 5686.0, 5580.0, 5676.0, 5458.0, 5503.0, 5304.0, 5319.0, 5369.0, 5265.0, 5278.0, 5575.0, 5682.0 (number of hits: 4)
23	5292	9	1	333	1	5674.0, 5587.0, 5297.0, 5483.0, 5658.0, 5280.0, 5446.0, 5480.0, 5663.0, 5516.0, 5415.0, 5363.0, 5385.0, 5595.0, 5610.0, 5532.0, 5399.0, 5479.0, 5466.0, 5398.0, 5393.0, 5697.0, 5608.0, 5563.0, 5443.0, 5472.0, 5338.0, 5288.0, 5522.0, 5562.0, 5585.0, 5724.0, 5295.0, 5471.0, 5507.0, 5630.0, 5650.0, 5703.0, 5580.0, 5710.0, 5467.0, 5542.0, 5410.0, 5317.0, 5278.0, 5346.0, 5276.0, 5301.0, 5369.0, 5686.0, 5345.0, 5533.0, 5596.0, 5651.0, 5577.0, 5290.0, 5435.0, 5323.0, 5652.0, 5537.0, 5397.0, 5546.0, 5635.0, 5519.0, 5705.0, 5454.0, 5396.0, 5354.0, 5368.0, 5262.0, 5318.0, 5261.0, 5383.0, 5616.0, 5570.0, 5678.0, 5645.0, 5311.0, 5381.0, 5593.0, 5349.0, 5265.0, 5372.0, 5458.0,

						5553.0, 5509.0, 5465.0, 5689.0, 5599.0, 5584.0, 5720.0, 5500.0, 5661.0, 5394.0, 5619.0, 5336.0, 5333.0, 5510.0, 5523.0, 5391.0 (number of hits: 4)
24	5293	9	1	333	1	5355.0, 5622.0, 5464.0, 5436.0, 5607.0, 5425.0, 5272.0, 5631.0, 5382.0, 5292.0, 5367.0, 5324.0, 5504.0, 5572.0, 5592.0, 5707.0, 5710.0, 5478.0, 5476.0, 5343.0, 5415.0, 5555.0, 5314.0, 5254.0, 5531.0, 5260.0, 5566.0, 5722.0, 5294.0, 5414.0, 5655.0, 5282.0, 5389.0, 5388.0, 5405.0, 5417.0, 5501.0, 5433.0, 5506.0, 5567.0, 5430.0, 5466.0, 5600.0, 5615.0, 5261.0, 5563.0, 5448.0, 5450.0, 5697.0, 5299.0, 5565.0, 5505.0, 5508.0, 5705.0, 5364.0, 5651.0, 5683.0, 5318.0, 5383.0, 5680.0, 5570.0, 5283.0, 5497.0, 5639.0, 5652.0, 5356.0, 5587.0, 5256.0, 5412.0, 5413.0, 5617.0, 5640.0, 5423.0, 5280.0, 5667.0, 5317.0, 5306.0, 5530.0, 5606.0, 5346.0, 5420.0, 5286.0, 5296.0, 5648.0, 5349.0, 5594.0, 5401.0, 5595.0, 5345.0, 5330.0, 5721.0, 5456.0, 5259.0, 5689.0, 5574.0, 5724.0, 5495.0, 5385.0, 5625.0, 5465.0 (number of hits: 5)
25	5294	9	1	333	1	5417.0, 5397.0, 5458.0, 5533.0, 5548.0, 5546.0, 5456.0, 5453.0, 5670.0, 5632.0, 5681.0, 5491.0, 5579.0, 5616.0, 5423.0, 5281.0, 5427.0, 5455.0, 5410.0, 5541.0, 5459.0, 5649.0, 5367.0, 5285.0, 5296.0, 5382.0, 5638.0, 5539.0, 5370.0, 5313.0, 5332.0, 5255.0, 5528.0, 5451.0, 5496.0, 5299.0, 5372.0, 5272.0, 5343.0, 5268.0, 5386.0, 5310.0, 5421.0, 5574.0, 5648.0, 5617.0, 5273.0, 5390.0, 5508.0, 5307.0, 5492.0, 5439.0, 5263.0, 5430.0, 5447.0, 5452.0, 5719.0, 5334.0, 5309.0, 5698.0, 5531.0, 5324.0, 5656.0, 5465.0, 5393.0, 5650.0, 5308.0, 5624.0, 5317.0, 5298.0, 5325.0, 5395.0, 5340.0, 5258.0, 5705.0, 5265.0, 5665.0, 5708.0, 5444.0, 5521.0, 5469.0, 5644.0, 5690.0, 5582.0, 5646.0, 5598.0, 5323.0, 5252.0, 5467.0, 5288.0, 5602.0, 5610.0, 5384.0, 5264.0, 5522.0, 5399.0, 5409.0, 5609.0, 5658.0, 5558.0 (number of hits: 5)
26	5295	9	1	333	1	5355.0, 5493.0, 5513.0, 5356.0, 5399.0, 5432.0, 5484.0, 5319.0, 5469.0, 5323.0, 5599.0, 5549.0, 5553.0, 5703.0, 5519.0, 5631.0, 5575.0, 5285.0, 5720.0, 5717.0, 5440.0, 5633.0, 5296.0, 5723.0, 5592.0, 5714.0, 5320.0, 5685.0, 5515.0, 5377.0, 5656.0, 5273.0, 5259.0, 5576.0, 5693.0, 5284.0, 5537.0, 5483.0, 5632.0, 5485.0, 5344.0, 5630.0, 5269.0, 5334.0, 5336.0, 5587.0, 5254.0, 5481.0, 5452.0, 5479.0, 5636.0, 5722.0, 5704.0, 5593.0, 5594.0, 5721.0, 5498.0, 5316.0, 5695.0, 5581.0, 5435.0, 5683.0, 5676.0, 5495.0, 5304.0, 5528.0, 5546.0, 5267.0, 5591.0, 5407.0, 5619.0, 5566.0, 5289.0, 5621.0, 5448.0, 5663.0, 5643.0, 5423.0, 5442.0, 5257.0, 5255.0, 5375.0, 5500.0, 5339.0, 5461.0, 5353.0, 5265.0, 5563.0, 5672.0, 5640.0, 5430.0, 5402.0, 5358.0, 5433.0, 5715.0, 5436.0, 5644.0, 5506.0, 5297.0, 5568.0 (number of hits: 3)
27	5296	9	1	333	1	5326.0, 5474.0, 5343.0, 5676.0, 5415.0, 5633.0, 5480.0, 5260.0, 5496.0, 5297.0, 5673.0, 5505.0, 5624.0, 5540.0, 5303.0, 5441.0, 5390.0, 5447.0, 5471.0, 5479.0, 5428.0, 5514.0, 5408.0, 5498.0, 5336.0, 5385.0, 5271.0, 5359.0, 5631.0, 5481.0, 5357.0, 5450.0, 5656.0, 5536.0, 5580.0, 5649.0, 5546.0, 5487.0, 5611.0, 5534.0, 5537.0, 5609.0, 5497.0, 5383.0, 5695.0, 5411.0, 5635.0, 5308.0, 5629.0, 5719.0, 5286.0, 5344.0, 5352.0, 5512.0, 5462.0, 5525.0, 5558.0, 5342.0, 5269.0, 5687.0, 5414.0, 5691.0, 5531.0, 5410.0, 5470.0, 5258.0, 5423.0, 5363.0, 5543.0, 5329.0,

						5681.0, 5589.0, 5476.0, 5361.0, 5332.0, 5406.0, 5418.0, 5459.0, 5654.0, 5533.0, 5678.0, 5350.0, 5570.0, 5338.0, 5315.0, 5279.0, 5605.0, 5574.0, 5529.0, 5275.0, 5335.0, 5345.0, 5614.0, 5469.0, 5274.0, 5552.0, 5503.0, 5499.0, 5277.0, 5592.0 (number of hits: 3)
28	5297	9	1	333	1	5479.0, 5306.0, 5343.0, 5639.0, 5410.0, 5389.0, 5275.0, 5504.0, 5490.0, 5526.0, 5570.0, 5524.0, 5700.0, 5261.0, 5489.0, 5520.0, 5545.0, 5483.0, 5362.0, 5446.0, 5354.0, 5427.0, 5535.0, 5588.0, 5314.0, 5660.0, 5369.0, 5418.0, 5334.0, 5699.0, 5326.0, 5495.0, 5502.0, 5482.0, 5510.0, 5466.0, 5593.0, 5294.0, 5340.0, 5431.0, 5474.0, 5521.0, 5601.0, 5302.0, 5415.0, 5454.0, 5525.0, 5442.0, 5706.0, 5548.0, 5268.0, 5420.0, 5625.0, 5480.0, 5426.0, 5717.0, 5462.0, 5327.0, 5298.0, 5281.0, 5556.0, 5422.0, 5629.0, 5428.0, 5455.0, 5315.0, 5291.0, 5683.0, 5392.0, 5312.0, 5486.0, 5577.0, 5578.0, 5527.0, 5388.0, 5341.0, 5704.0, 5698.0, 5394.0, 5636.0, 5674.0, 5459.0, 5318.0, 5381.0, 5430.0, 5253.0, 5305.0, 5557.0, 5576.0, 5565.0, 5654.0, 5373.0, 5541.0, 5491.0, 5364.0, 5650.0, 5580.0, 5438.0, 5401.0, 5263.0 (number of hits: 6)
29	5298	9	1	333	1	5665.0, 5350.0, 5604.0, 5464.0, 5400.0, 5686.0, 5695.0, 5304.0, 5391.0, 5559.0, 5683.0, 5672.0, 5261.0, 5379.0, 5621.0, 5295.0, 5443.0, 5291.0, 5713.0, 5480.0, 5562.0, 5296.0, 5655.0, 5506.0, 5442.0, 5434.0, 5691.0, 5616.0, 5448.0, 5489.0, 5408.0, 5272.0, 5366.0, 5551.0, 5364.0, 5253.0, 5444.0, 5265.0, 5392.0, 5461.0, 5259.0, 5477.0, 5714.0, 5660.0, 5254.0, 5402.0, 5471.0, 5305.0, 5430.0, 5557.0, 5699.0, 5268.0, 5345.0, 5307.0, 5513.0, 5693.0, 5357.0, 5619.0, 5656.0, 5341.0, 5572.0, 5314.0, 5539.0, 5645.0, 5639.0, 5256.0, 5453.0, 5583.0, 5611.0, 5600.0, 5515.0, 5318.0, 5666.0, 5458.0, 5566.0, 5351.0, 5356.0, 5501.0, 5348.0, 5498.0, 5476.0, 5548.0, 5409.0, 5653.0, 5591.0, 5577.0, 5387.0, 5275.0, 5447.0, 5374.0, 5352.0, 5705.0, 5636.0, 5535.0, 5630.0, 5643.0, 5369.0, 5671.0, 5580.0, 5711.0 (number of hits: 6)
30	5299	9	1	333	1	5330.0, 5534.0, 5442.0, 5315.0, 5574.0, 5642.0, 5376.0, 5453.0, 5278.0, 5673.0, 5294.0, 5639.0, 5375.0, 5661.0, 5644.0, 5446.0, 5449.0, 5306.0, 5420.0, 5340.0, 5653.0, 5322.0, 5309.0, 5480.0, 5301.0, 5463.0, 5496.0, 5505.0, 5361.0, 5358.0, 5405.0, 5557.0, 5655.0, 5354.0, 5662.0, 5691.0, 5648.0, 5437.0, 5314.0, 5320.0, 5386.0, 5634.0, 5395.0, 5349.0, 5697.0, 5399.0, 5393.0, 5491.0, 5658.0, 5310.0, 5379.0, 5494.0, 5596.0, 5539.0, 5567.0, 5261.0, 5366.0, 5467.0, 5709.0, 5457.0, 5624.0, 5635.0, 5473.0, 5281.0, 5424.0, 5279.0, 5712.0, 5397.0, 5593.0, 5545.0, 5509.0, 5285.0, 5394.0, 5273.0, 5363.0, 5253.0, 5692.0, 5495.0, 5323.0, 5677.0, 5369.0, 5711.0, 5684.0, 5696.0, 5517.0, 5577.0, 5719.0, 5659.0, 5579.0, 5459.0, 5416.0, 5407.0, 5628.0, 5528.0, 5548.0, 5271.0, 5604.0, 5276.0, 5374.0, 5384.0 (number of hits: 3)

5590 MHz

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1	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	96.7 %	70%	Pass

Please refer to the following statistical tables:

Table-1 Radar Type 1 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5590	18	1	1428	1
2	5590	18	1	1428	1
3	5590	18	1	1428	1
4	5590	18	1	1428	1
5	5590	18	1	1428	1
6	5590	18	1	1428	1
7	5590	18	1	1428	1
8	5590	18	1	1428	1
9	5590	18	1	1428	1
10	5590	18	1	1428	1
11	5590	18	1	1428	1
12	5590	18	1	1428	1
13	5590	18	1	1428	1
14	5590	18	1	1428	1
15	5590	18	1	1428	1
16	5590	18	1	1428	1
17	5590	18	1	1428	1
18	5590	18	1	1428	1
19	5590	18	1	1428	1
20	5590	18	1	1428	1
21	5590	18	1	1428	1

22	5590	18	1	1428	1
23	5590	18	1	1428	1
24	5590	18	1	1428	1
25	5590	18	1	1428	1
26	5590	18	1	1428	1
27	5590	18	1	1428	1
28	5590	18	1	1428	1
29	5590	18	1	1428	1
30	5590	18	1	1428	1
Detection Percentage: 100 % (>60%)					

Table-2 Radar Type 2 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5590	29	2.1	187	1
2	5590	24	3.4	208	1
3	5590	24	3.7	163	1
4	5590	27	1.8	179	1
5	5590	28	1.3	168	1
6	5590	24	3.8	167	1
7	5590	26	1.6	217	1
8	5590	24	4.4	216	1
9	5590	24	2.6	198	1
10	5590	26	1.7	224	1
11	5590	23	1.7	198	1
12	5590	25	2.5	197	1
13	5590	25	3.6	155	1
14	5590	29	4.1	200	1
15	5590	29	2	154	1
16	5590	28	1.3	193	1
17	5590	23	3	210	1
18	5590	26	1	228	1
19	5590	29	1.6	217	1
20	5590	23	4.8	161	1
21	5590	27	1.2	222	1
22	5590	23	2.7	226	1
23	5590	26	1.7	176	1
24	5590	24	4.8	164	1
25	5590	23	2.6	178	1

26	5590	26	3	169	1
27	5590	24	2.7	175	1
28	5590	25	3.2	209	1
29	5590	28	4.4	195	1
30	5590	23	1.4	205	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	5590	16	9.6	351	1
2	5590	18	8	346	1
3	5590	18	8.8	269	1
4	5590	16	7.2	429	1
5	5590	17	7.9	432	1
6	5590	18	9.4	499	1
7	5590	17	9.6	481	1
8	5590	17	9.6	305	1
9	5590	17	7.8	457	1
10	5590	18	6.9	327	1
11	5590	17	7.7	392	1
12	5590	16	9.4	328	1
13	5590	17	7	457	1
14	5590	17	7.7	395	1
15	5590	17	6.9	465	1
16	5590	18	6.9	329	1
17	5590	18	9.7	480	1
18	5590	17	7.6	366	1
19	5590	18	7.1	425	1
20	5590	18	7.2	455	1
21	5590	17	8	355	1
22	5590	16	9.1	333	1
23	5590	18	7.6	379	1
24	5590	18	7.1	282	1
25	5590	16	7.8	451	1
26	5590	16	7	404	1
27	5590	18	9.4	417	1
28	5590	17	9.3	381	1
29	5590	16	9.4	260	1
30	5590	17	7.7	493	1

Detection Percentage: 100 % (>60%)
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Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µs)	PRI (µs)	Detection (1:yes; 0:no)
1	5590	13	19.1	318	1
2	5590	15	18.5	273	1
3	5590	16	18.4	331	1
4	5590	16	19	285	1
5	5590	16	14.5	381	1
6	5590	16	11.8	208	1
7	5590	15	15.8	201	1
8	5590	16	15.6	254	1
9	5590	13	14.9	405	1
10	5590	15	12.3	317	1
11	5590	15	13.8	201	1
12	5590	16	11.4	341	1
13	5590	12	11.2	458	1
14	5590	12	14.6	302	1
15	5590	16	13.5	299	1
16	5590	15	16.2	437	1
17	5590	13	12	387	1
18	5590	13	12.7	276	1
19	5590	16	16.4	246	1
20	5590	12	11.5	242	1
21	5590	16	16.3	207	1
22	5590	13	19	222	1
23	5590	13	17.7	366	0
24	5590	16	18.7	275	1
25	5590	12	19.2	348	1
26	5590	16	12	290	1
27	5590	13	12.3	494	1
28	5590	15	13.9	219	1
29	5590	14	14.9	310	1
30	5590	16	13.9	451	1
Detection Percentage: 96.7 % (>60%)					

Table-5 Radar Type 5 Statistical Performance

Bin5 Statistics 1

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	7	62.7			0.256743	1
1	2	6	98.6	1604		1.352526	
2	2	13	52.6	1998		1.85388	
3	2	19	70	1528		2.261937	
4	2	10	57.3	1962		3.184644	
5	2	9	83.1	1706		4.175857	
6	2	9	79.5	1060		5.170644	
7	2	14	54.1	1622		5.250104	
8	1	20	93.4			6.174663	
9	1	17	82.3			7.42424	
10	3	15	58.4	1909	1784	7.635181	
11	2	12	96.8	1585		8.692363	
12	3	10	78.9	1600	1829	9.724508	
13	3	14	80.6	1022	1868	9.75034	
14	3	13	64.8	1610	1382	10.62525	
15	2	7	88.1	1174		11.49483	

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	17	52	1245		0.213462	1
1	2	8	62.5	1443		0.924453	
2	3	15	56	1496	1278	2.116008	
3	2	14	63.2	1078		2.96353	
4	1	16	66.7			3.15118	
5	1	6	68			4.091567	
6	2	12	56.3	1607		5.238744	
7	1	7	79.3			5.468706	
8	2	9	76.4	1016		6.549901	
9	2	8	77.9	1061		7.070849	
10	1	9	84			8.119936	
11	2	10	53.7	1184		8.762266	
12	3	17	93.6	1172	1053	9.214539	
13	2	17	52.1	1374		10.33816	
14	1	20	87.9			10.62711	
15	2	17	66.9	1895		11.30305	

Bin5 Statistics 3

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	9	78	1611		1.043749	1
1	3	17	56.4	1802	1690	2.014927	
2	1	18	54.4			2.497652	
3	2	16	78.2	1725		3.673204	
4	1	7	83.7			5.108917	
5	2	18	85.4	1781		5.482975	
6	1	6	57.2			7.240747	
7	1	16	88.4			8.106508	
8	2	15	82.2	1005		9.669401	
9	3	8	58.6	1875	1798	10.2316	
10	2	15	87.5	1125		11.261	

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	11	53.4			0.836016	1
1	2	17	75.3	1966		0.935794	
2	2	7	65.8	1584		2.444465	
3	1	17	70.5			3.238367	
4	1	17	91.2			4.182716	
5	2	11	87.8	1799		4.923867	
6	2	19	66.8	1205		5.602483	
7	3	9	84.4	1369	1105	7.304005	
8	2	17	64.4	1102		7.790682	
9	3	13	55.3	1882	1407	8.966933	
10	2	13	74.7	1647		9.2428	
11	2	10	88.5	1131		10.84206	
12	2	20	60.9	1486		11.30437	

Bin5 Statistics 5

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	7	61.3			0.681893	1
1	3	10	64.9	1873	1618	1.973562	
2	2	12	81.5	1386		2.593308	

3	1	10	68.3			3.439341
4	2	17	75.3	1538		4.453041
5	1	5	73.9			5.658204
6	2	10	63.3	1308		6.969897
7	3	11	89.4	1230	1507	7.510829
8	1	18	84.1			8.311157
9	1	12	91.3			9.130758
10	2	7	83.9	1423		10.11653
11	2	18	69.3	1211		11.7564

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	52.8			0.388556	1
1	3	11	65.3	1210	1427	1.196095	
2	3	16	85.7	1121	1799	1.667604	
3	2	12	68.7	1582		2.608428	
4	1	18	76.8			3.542828	
5	2	11	59.1	1062		4.365358	
6	1	20	84.6			4.587936	
7	3	17	78.9	1790	1197	5.42849	
8	3	13	62.7	1808	1850	6.548998	
9	1	12	69			7.255477	
10	1	15	90.1			7.777426	
11	1	6	86.4			8.886809	
12	1	8	97.6			9.182749	
13	1	16	78.8			10.01252	
14	2	12	95	1141		10.84373	
15	2	9	65.8	1301		11.3134	

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	11	92.8			0.625928	1
1	1	7	80			2.512854	
2	3	7	61.2	1345	1216	3.055196	
3	2	19	65.7	1207		5.798015	
4	2	14	60.2	1620		7.380065	
5	1	8	84.8			8.058315	
6	2	14	58.8	1125		10.08236	

7	2	12	90	1306		11.69273	
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Bin5 Statistics 8

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	9	58.6	1914		0.290295	1
1	2	9	61.7	1804		0.838654	
2	3	17	63.4	1580	1975	1.760797	
3	1	19	65.2			2.524439	
4	1	18	88.4			2.980121	
5	3	13	84.2	1131	1981	3.827312	
6	2	13	88.5	1431		4.155731	
7	2	13	98.4	1767		4.953131	
8	3	15	74.6	1322	1196	5.966796	
9	1	16	97.1			6.390865	
10	2	7	98.4	1307		7.144733	
11	2	16	79.3	1325		7.749015	
12	3	5	55.7	1709	1398	8.458986	
13	2	9	90.4	1696		9.151775	
14	2	18	79.5	1874		9.867554	
15	2	10	98.6	1187		10.133	
16	1	17	92.8			11.28722	
17	2	13	75.1	1137		11.61771	

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	16	78.1	1337	1200	0.526109	1
1	2	18	68.1	1929		1.219846	
2	2	5	79.5	1348		2.122739	
3	2	11	58.8	1411		2.951567	
4	3	13	83.8	1340	1204	3.25378	
5	3	20	73.2	1866	1187	4.080419	
6	2	16	75.5	1487		4.978678	
7	3	10	75.2	1265	1505	6.052196	
8	2	19	93	1603		6.995809	
9	3	11	96.2	1838	1045	7.76221	
10	3	8	67.9	1591	1231	8.52567	
11	3	9	86.2	1863	1754	9.096661	

12	2	15	86.3	1471		10.26242	
13	2	18	83.5	1410		10.95531	
14	3	14	58.8	1331	1943	11.82827	

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	6	90.2	1664	1152	0.813731	1
1	2	12	92.1	1117		1.297011	
2	3	13	78	1113	1431	1.938038	
3	2	8	70.5	1318		3.102324	
4	1	10	50.7			3.840709	
5	1	16	54.3			5.407408	
6	2	16	91.5	1606		5.813557	
7	2	8	94.6	1469		6.971023	
8	2	13	55.2	1138		7.846995	
9	2	6	67.1	1907		8.355824	
10	1	20	91.6			9.404508	
11	2	5	61.4	1258		10.22893	
12	3	12	64.3	1815	1063	11.404	

Bin5 Statistics 11

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	13	53.2			0.261814	1
1	2	9	64.9	1138		1.131003	
2	1	11	73			2.182488	
3	2	19	58.5	1517		3.225853	
4	3	12	64.1	1072	1406	3.83654	
5	2	17	66.5	1452		4.900182	
6	2	7	69.3	2000		6.251975	
7	2	11	80.4	1966		6.840725	
8	2	17	54.4	1894		7.447731	
9	1	14	97.3			8.923867	
10	3	11	52.8	1113	1781	9.690583	
11	3	9	87.1	1556	1760	10.42183	
12	1	18	55.7			11.50912	

Bin5 Statistics 12

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	11	95.2			0.927469	1
1	2	17	78.4	1496		1.557681	
2	3	17	79.2	1570	1782	2.450919	
3	3	18	95.9	1182	1075	3.762142	
4	2	13	55.3	1010		4.924817	
5	2	17	82.8	1394		5.561512	
6	1	15	53.3			6.681063	
7	3	11	70.3	1629	1835	7.311692	
8	3	15	62.5	1534	1034	8.899721	
9	3	6	69	1773	1392	9.226311	
10	3	12	67.7	1503	1762	10.53425	
11	2	18	56.3	1691		11.20694	

Bin5 Statistics 13

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	8	57.6	1791		0.16895	1
1	1	7	86.8			1.327879	
2	2	6	54.7	1500		2.190232	
3	2	10	74.9	1485		2.604676	
4	2	11	93.3	1680		3.585368	
5	1	10	94.1			4.175056	
6	2	5	84.5	1535		5.015309	
7	2	14	72.6	1942		5.897089	
8	3	16	65.1	1611	1096	6.668125	
9	1	20	90.1			7.281501	
10	3	17	71.9	1518	1720	8.467922	
11	3	10	51.4	1151	1550	8.862682	
12	3	17	72.6	1746	1912	9.871845	
13	2	19	71.3	1728		10.51722	
14	1	14	68.8			11.98699	

Bin5 Statistics 14

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	19	68.7	1540	1413	0.551501	1
1	2	8	99.1	1846		1.208154	
2	1	14	57.3			2.429951	
3	1	20	59.5			3.684093	
4	2	6	96.5	1777		4.42133	
5	2	13	68.8	1001		4.905237	
6	1	11	95.1			5.846338	
7	2	10	93.3	1339		6.716757	
8	2	9	90.4	1621		8.295656	
9	2	9	81.2	1599		9.06164	
10	2	9	60	1048		9.50913	
11	2	19	95.2	1538		10.80615	
12	1	11	94.7			11.74166	

Bin5 Statistics 15

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	15	84.5	1953	1825	0.189199	1
1	1	13	80			1.455913	
2	2	20	50.3	1197		2.757503	
3	3	19	97.2	1769	1773	4.68882	
4	3	16	66.5	1271	1547	5.044475	
5	2	17	73.7	1620		7.146966	
6	2	17	50.4	1865		7.625564	
7	3	17	72.5	1173	1703	9.083247	
8	3	14	75.6	1496	1825	9.641201	
9	1	12	80.2			11.67419	

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	8	74.1	1617		0.562059	1

1	3	12	70.2	1915	1886	1.840162	
2	1	7	84.1			3.332068	
3	3	8	63.3	1219	1618	3.638355	
4	1	9	64.5			5.470897	
5	2	9	97.7	1581		6.275681	
6	2	6	87.3	1558		7.2092	
7	2	15	95.3	1412		9.232553	
8	2	6	99.4	1479		10.19019	
9	3	7	92.7	1993	1798	11.10222	

Bin5 Statistics 17

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	10	89.6	1208		0.686305	
1	3	7	80.1	1655	1051	1.234814	
2	2	20	82.6	1756		2.164161	
3	2	16	64.3	1598		3.128881	
4	2	15	81.2	1103		4.014558	
5	1	9	61.6			4.566366	
6	2	17	84.6	1613		5.257395	
7	2	14	72.1	1697		6.036635	
8	2	8	82.2	1536		7.108965	
9	2	7	88.2	1345		8.237327	
10	2	20	83.3	1482		9.297303	
11	2	13	68.4	1330		9.950934	
12	3	15	60.7	1080	1439	10.35436	
13	3	8	83.7	1151	1322	11.1783	

Bin5 Statistics 18

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	15	51.7	1747		0.497032	1
1	2	12	77.8	1069		1.814267	
2	2	13	83.2	1366		2.584903	
3	2	16	68.5	1736		3.216158	
4	2	15	83.5	1888		4.406889	
5	1	14	63.9			5.202741	
6	3	18	87.2	1830	1187	5.866619	
7	2	12	62.5	1664		7.011002	
8	1	18	68.8			7.448746	

9	2	14	57.9	1332		8.795544	
10	3	15	90.8	1217	1370	10.10549	
11	1	15	99.6			10.89979	
12	1	10	56.6			11.20269	

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	10	56.6			0.484185	1
1	2	14	58.9	1030		1.156832	
2	1	8	51.4			1.568781	
3	3	13	92.9	1540	1330	2.822739	
4	2	15	67.5	1273		3.017611	
5	1	14	76.6			4.280031	
6	2	20	65.8	1178		4.796562	
7	1	15	64.3			5.47084	
8	2	15	80.7	1649		6.311315	
9	2	10	75.7	1819		7.357691	
10	2	12	84	1858		7.951787	
11	3	20	60.8	1781	1124	8.573734	
12	1	19	94.6			9.478798	
13	2	16	80.5	1180		9.92993	
14	2	11	77.5	1621		10.51586	
15	3	6	65.2	1801	1805	11.87454	

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	19	64.4	1631		0.2093	1
1	2	7	89.1	1176		0.666615	
2	1	13	77.9			1.455762	
3	2	14	53.1	1926		1.997366	
4	3	13	96.5	1892	1353	3.12409	
5	2	9	87.4	1511		3.482014	
6	2	17	73.2	1242		4.361453	
7	3	18	61.6	1285	1598	4.765822	
8	1	18	73			5.533279	
9	3	18	76.5	1635	1470	5.805374	

10	2	19	57.2	1477		6.34695	
11	1	17	84.2			7.298831	
12	2	9	55.3	1573		7.616631	
13	2	14	50.3	1883		8.562291	
14	1	17	61.1			8.957378	
15	2	18	84.2	1708		9.79701	
16	2	5	72.8	1766		10.13513	
17	2	19	58	1633		11.35261	
18	3	11	81.6	1560	1237	11.74173	

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	17	92	1286		0.196631	
1	2	20	80.6	1507		1.537447	
2	3	12	85.7	1779	1054	3.949348	
3	2	7	75.6	1634		4.627516	
4	3	17	81.1	1451	1234	5.542161	1
5	3	8	54.4	1459	1234	6.960615	
6	3	12	94.8	1313	1303	8.511495	
7	2	5	63.3	1741		10.6466	
8	1	18	77.1			11.5919	

Bin5 Statistics 22

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	9	58.3	1189		0.58327	1
1	3	16	85.9	1771	1367	0.850868	
2	1	12	81.9			1.793892	
3	2	7	88.7	1329		2.161414	
4	2	14	58.4	1234		2.547639	
5	1	5	96.2			3.619877	
6	2	9	74.8	1030		3.791616	
7	1	20	63.1			4.616997	
8	3	20	68.3	1399	1167	5.432492	
9	2	11	72.5	1688		6.164953	
10	3	19	66.7	1684	1110	6.692333	
11	2	11	63.3	1392		7.078193	
12	1	9	94.6			7.845373	
13	2	5	70	1164		8.403055	

14	2	17	60.7	1799		8.898575	
15	2	5	73.6	1045		10.0608	
16	2	16	81.9	1440		10.34901	
17	3	7	65.4	1726	1723	11.08876	
18	3	18	59.3	1783	1960	11.74273	

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	18	89	1961		0.667319	1
1	2	20	68.5	1062		0.877619	
2	2	9	70.9	1571		2.472865	
3	2	11	73.4	1406		2.828518	
4	2	13	53.5	1173		4.261967	
5	1	20	55.6			4.469744	
6	1	13	78.9			5.844219	
7	1	15	92.4			6.607071	
8	2	14	94	1518		7.528575	
9	2	14	81.7	1013		8.089361	
10	2	8	58.1	1305		9.195011	
11	2	8	76.2	1835		9.646753	
12	2	11	64.4	1272		10.78112	
13	3	14	51.8	1855	1416	11.88808	

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	20	88.7	1432	1294	0.904455	1
1	2	13	82.2	1649		1.829634	
2	2	7	56.3	1522		2.082873	
3	3	14	68	1128	1573	3.760967	
4	2	13	50.2	1623		4.806308	
5	2	16	59.9	1420		5.239257	
6	3	7	79.9	1771	1557	6.025719	
7	1	8	78.2			7.096133	
8	3	11	98	1535	1137	8.055287	
9	2	7	98.3	1716		9.345395	
10	1	14	55.7			10.78183	
11	3	10	89.5	1290	1373	11.06295	

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	9	91.4	1309		0.396547	1
1	2	18	65.5	1108		0.852022	
2	1	18	66.1			1.35033	
3	2	10	68.5	1719		2.21568	
4	2	18	77.9	1237		2.687054	
5	2	7	73.5	1696		3.70192	
6	2	17	72.5	1680		4.438019	
7	3	15	92.4	1853	1177	5.301547	
8	2	9	98.6	1406		5.651425	
9	3	12	79.4	1945	1951	6.099239	
10	2	13	70.8	1740		7.243701	
11	1	10	62			7.959551	
12	2	6	62.6	1600		8.074811	
13	2	9	53.3	1668		9.076264	
14	1	14	94.5			9.62156	
15	3	16	88	1084	1864	10.45552	
16	2	13	97.2	1497		10.76012	
17	3	11	58.3	1694	1450	11.97293	

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	13	69.2	1684	1798	0.752319	1
1	1	14	83.4			1.090559	
2	1	20	63.1			1.879661	
3	1	17	98.7			2.508064	
4	1	11	51.3			3.747551	
5	1	10	51			4.730214	
6	2	7	95.1	1047		5.093594	
7	1	17	94.7			6.266112	
8	2	10	77	1217		6.429307	
9	2	19	71.6	1188		7.70454	
10	1	20	62			8.502652	
11	3	13	72.4	1269	1953	9.207336	
12	3	20	57.9	1224	1038	10.33048	
13	3	6	54.3	1676	1561	11.00982	

14	2	7	67	1388		11.58691	
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Bin5 Statistics 27

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	12	97.3	1194		0.468218	1
1	1	6	87.9			2.380945	
2	1	18	76.3			2.597939	
3	1	16	97.6			3.842067	
4	2	7	58.8	1979		5.747019	
5	2	12	55	1055		6.086896	
6	2	18	79.3	1942		7.267617	
7	1	10	78			8.77402	
8	3	20	98	1453	1228	10.13064	

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	6	89.2	1914		0.219648	1
1	3	5	75.4	1879	1095	0.81067	
2	1	13	54.5			1.488913	
3	2	16	78.3	1167		2.70711	
4	1	8	67.3			3.407087	
5	2	6	58.4	1885		3.696869	
6	3	10	92.4	1592	1293	4.738791	
7	2	6	79.5	1084		4.947103	
8	3	14	99.8	1506	1521	6.245425	
9	2	11	86.2	1226		6.557413	
10	2	6	56.8	1314		7.691609	
11	2	18	58.8	1864		8.128185	
12	2	16	62.5	1468		8.85213	
13	2	16	52.8	1641		9.795528	
14	3	14	96	1477	1882	9.95735	
15	3	17	85.6	1540	1850	11.02178	
16	1	19	88.2			11.88349	

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)
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0	2	13	54.3	1483		0.226844	1
1	2	11	58	1260		2.736485	
2	3	17	68.1	1438	1178	3.442082	
3	3	14	50.4	1096	1149	5.990337	
4	2	17	75.3	1638		6.368967	
5	2	20	68	1529		8.498995	
6	2	13	70.3	1005		10.05738	
7	2	14	94.9	1501		11.17706	

Bin5 Statistics 30

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	13	59.1	1881		0.216305	1
1	2	20	78.5	1262		0.703874	
2	2	10	91.9	1001		1.860488	
3	1	16	82.4			2.309239	
4	2	11	78.3	1612		2.748093	
5	1	15	67.6			3.971815	
6	2	7	86.2	1473		4.561401	
7	3	10	60.3	1259	1241	4.93731	
8	3	19	91.3	1869	1269	5.443932	
9	2	16	83.7	1421		6.545525	
10	2	11	70.9	1418		6.996745	
11	2	7	94.3	1584		7.446067	
12	2	9	94.8	1996		8.276163	
13	2	18	85.2	1335		9.218243	
14	2	12	71.7	1855		9.96731	
15	3	5	50.9	1176	1237	10.65602	
16	1	12	97.7			10.85297	
17	2	14	87	1372		11.57518	

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	5590	9	1	333	1	5278.0, 5637.0, 5531.0, 5421.0, 5724.0, 5419.0, 5678.0, 5505.0, 5487.0, 5298.0, 5632.0, 5572.0, 5378.0, 5459.0, 5256.0, 5384.0, 5589.0, 5700.0, 5508.0, 5263.0, 5420.0, 5377.0, 5264.0, 5537.0, 5329.0, 5530.0, 5279.0, 5289.0, 5367.0, 5658.0, 5265.0, 5699.0, 5344.0, 5366.0, 5541.0, 5391.0, 5568.0, 5560.0, 5317.0, 5357.0, 5553.0, 5270.0, 5519.0, 5446.0, 5673.0, 5575.0, 5548.0, 5365.0, 5362.0, 5608.0, 5386.0, 5349.0, 5666.0, 5647.0, 5654.0, 5416.0, 5561.0, 5413.0, 5267.0, 5356.0, 5576.0, 5477.0, 5542.0, 5704.0, 5545.0, 5529.0, 5281.0, 5432.0, 5418.0, 5567.0, 5592.0, 5610.0, 5364.0, 5445.0, 5342.0, 5440.0, 5293.0, 5486.0, 5544.0, 5380.0, 5500.0, 5461.0, 5417.0, 5689.0, 5373.0, 5470.0, 5661.0, 5405.0, 5345.0, 5492.0, 5693.0, 5306.0, 5261.0, 5412.0, 5612.0, 5598.0, 5301.0, 5556.0, 5495.0, 5359.0 (number of hits: 7)
2	5590	9	1	333	1	5718.0, 5589.0, 5646.0, 5482.0, 5535.0, 5666.0, 5531.0, 5594.0, 5367.0, 5264.0, 5343.0, 5708.0, 5543.0, 5688.0, 5557.0, 5320.0, 5530.0, 5640.0, 5544.0, 5319.0, 5466.0, 5360.0, 5592.0, 5379.0, 5391.0, 5554.0, 5545.0, 5291.0, 5675.0, 5423.0, 5657.0, 5475.0, 5430.0, 5408.0, 5611.0, 5634.0, 5511.0, 5679.0, 5462.0, 5321.0, 5362.0, 5341.0, 5329.0, 5447.0, 5705.0, 5717.0, 5524.0, 5467.0, 5574.0, 5268.0, 5256.0, 5335.0, 5480.0, 5648.0, 5600.0, 5464.0, 5330.0, 5278.0, 5373.0, 5479.0, 5673.0, 5340.0, 5660.0, 5389.0, 5553.0, 5585.0, 5652.0, 5427.0, 5290.0, 5365.0, 5393.0, 5385.0, 5277.0, 5689.0, 5376.0, 5398.0, 5631.0, 5258.0, 5451.0, 5499.0, 5711.0, 5262.0, 5378.0, 5641.0, 5509.0, 5457.0, 5271.0, 5693.0, 5253.0, 5429.0, 5314.0, 5623.0, 5318.0, 5521.0, 5416.0, 5500.0, 5694.0, 5424.0, 5659.0, 5446.0 (number of hits: 6)
3	5591	9	1	333	1	5313.0, 5322.0, 5567.0, 5619.0, 5623.0, 5288.0, 5718.0, 5275.0, 5315.0, 5633.0, 5463.0, 5659.0, 5321.0, 5478.0, 5334.0, 5507.0, 5299.0, 5413.0, 5518.0, 5517.0, 5355.0, 5551.0, 5260.0, 5509.0, 5506.0, 5667.0, 5642.0, 5305.0, 5474.0, 5384.0, 5261.0, 5255.0, 5433.0, 5445.0, 5302.0, 5722.0, 5723.0, 5423.0, 5460.0, 5362.0, 5252.0, 5694.0, 5685.0, 5673.0, 5605.0, 5456.0, 5563.0, 5416.0, 5372.0, 5395.0, 5282.0, 5569.0, 5304.0, 5269.0, 5388.0, 5259.0, 5444.0, 5346.0, 5368.0, 5652.0, 5612.0, 5692.0, 5538.0, 5712.0, 5608.0, 5361.0, 5270.0, 5696.0, 5461.0, 5644.0, 5561.0, 5381.0, 5716.0, 5405.0, 5573.0, 5531.0, 5494.0, 5281.0, 5303.0, 5310.0, 5661.0, 5703.0, 5527.0, 5589.0, 5394.0, 5349.0, 5599.0, 5637.0, 5550.0, 5683.0, 5643.0, 5373.0, 5582.0, 5375.0, 5266.0, 5672.0, 5707.0, 5624.0, 5488.0, 5290.0 (number of hits: 6)
4	5592	9	1	333	1	5620.0, 5353.0, 5582.0, 5484.0, 5445.0, 5456.0, 5497.0, 5643.0, 5365.0, 5547.0, 5439.0, 5503.0, 5330.0, 5288.0, 5651.0, 5311.0, 5612.0, 5431.0, 5415.0, 5577.0, 5672.0, 5585.0, 5587.0, 5644.0, 5624.0, 5538.0, 5514.0, 5527.0, 5581.0, 5412.0, 5616.0, 5423.0, 5540.0, 5354.0, 5333.0, 5307.0, 5633.0, 5536.0, 5505.0, 5360.0, 5567.0, 5634.0, 5389.0, 5358.0, 5530.0, 5263.0, 5436.0, 5323.0, 5454.0, 5489.0, 5545.0, 5611.0, 5702.0, 5395.0, 5460.0, 5693.0,

						5706.0, 5600.0, 5257.0, 5387.0, 5556.0, 5349.0, 5649.0, 5703.0, 5341.0, 5683.0, 5410.0, 5466.0, 5533.0, 5658.0, 5259.0, 5356.0, 5571.0, 5541.0, 5268.0, 5557.0, 5399.0, 5700.0, 5499.0, 5282.0, 5352.0, 5444.0, 5396.0, 5569.0, 5390.0, 5701.0, 5661.0, 5686.0, 5667.0, 5350.0, 5597.0, 5343.0, 5642.0, 5440.0, 5381.0, 5570.0, 5298.0, 5501.0, 5317.0, 5496.0 (number of hits: 9)
5	5593	9	1	333	1	5289.0, 5389.0, 5696.0, 5619.0, 5592.0, 5399.0, 5327.0, 5360.0, 5575.0, 5471.0, 5548.0, 5401.0, 5385.0, 5272.0, 5505.0, 5285.0, 5655.0, 5466.0, 5698.0, 5265.0, 5478.0, 5425.0, 5442.0, 5558.0, 5512.0, 5459.0, 5661.0, 5468.0, 5686.0, 5370.0, 5467.0, 5390.0, 5615.0, 5373.0, 5543.0, 5375.0, 5312.0, 5428.0, 5308.0, 5268.0, 5677.0, 5659.0, 5457.0, 5577.0, 5657.0, 5294.0, 5271.0, 5596.0, 5576.0, 5627.0, 5722.0, 5691.0, 5387.0, 5324.0, 5511.0, 5288.0, 5315.0, 5603.0, 5506.0, 5490.0, 5464.0, 5263.0, 5488.0, 5668.0, 5514.0, 5437.0, 5388.0, 5330.0, 5508.0, 5421.0, 5693.0, 5253.0, 5369.0, 5643.0, 5587.0, 5430.0, 5287.0, 5608.0, 5614.0, 5663.0, 5595.0, 5309.0, 5455.0, 5496.0, 5403.0, 5344.0, 5262.0, 5589.0, 5326.0, 5635.0, 5465.0, 5273.0, 5303.0, 5653.0, 5521.0, 5398.0, 5340.0, 5416.0, 5406.0, 5689.0 (number of hits: 10)
6	5594	9	1	333	1	5688.0, 5316.0, 5690.0, 5432.0, 5473.0, 5658.0, 5696.0, 5436.0, 5438.0, 5321.0, 5373.0, 5471.0, 5533.0, 5339.0, 5496.0, 5710.0, 5282.0, 5527.0, 5475.0, 5449.0, 5618.0, 5623.0, 5275.0, 5629.0, 5718.0, 5253.0, 5532.0, 5680.0, 5531.0, 5325.0, 5264.0, 5388.0, 5379.0, 5610.0, 5552.0, 5427.0, 5493.0, 5695.0, 5445.0, 5681.0, 5575.0, 5648.0, 5564.0, 5617.0, 5660.0, 5421.0, 5260.0, 5480.0, 5561.0, 5489.0, 5397.0, 5398.0, 5327.0, 5522.0, 5262.0, 5452.0, 5539.0, 5537.0, 5503.0, 5699.0, 5298.0, 5326.0, 5521.0, 5423.0, 5676.0, 5548.0, 5605.0, 5574.0, 5263.0, 5403.0, 5673.0, 5509.0, 5365.0, 5686.0, 5469.0, 5550.0, 5377.0, 5704.0, 5351.0, 5437.0, 5701.0, 5362.0, 5687.0, 5370.0, 5541.0, 5557.0, 5429.0, 5329.0, 5462.0, 5337.0, 5685.0, 5448.0, 5354.0, 5682.0, 5487.0, 5500.0, 5499.0, 5416.0, 5700.0, 5488.0 (number of hits: 3)
7	5595	9	1	333	1	5419.0, 5582.0, 5443.0, 5524.0, 5456.0, 5292.0, 5357.0, 5383.0, 5709.0, 5668.0, 5599.0, 5309.0, 5349.0, 5453.0, 5291.0, 5685.0, 5367.0, 5337.0, 5651.0, 5371.0, 5331.0, 5476.0, 5262.0, 5468.0, 5552.0, 5618.0, 5531.0, 5439.0, 5610.0, 5622.0, 5510.0, 5576.0, 5325.0, 5297.0, 5445.0, 5485.0, 5269.0, 5563.0, 5463.0, 5639.0, 5646.0, 5489.0, 5470.0, 5471.0, 5324.0, 5679.0, 5384.0, 5551.0, 5469.0, 5562.0, 5330.0, 5588.0, 5512.0, 5687.0, 5442.0, 5268.0, 5380.0, 5635.0, 5381.0, 5455.0, 5653.0, 5277.0, 5538.0, 5253.0, 5315.0, 5414.0, 5446.0, 5276.0, 5409.0, 5669.0, 5293.0, 5425.0, 5430.0, 5496.0, 5275.0, 5339.0, 5698.0, 5722.0, 5661.0, 5429.0, 5586.0, 5650.0, 5500.0, 5544.0, 5391.0, 5402.0, 5479.0, 5436.0, 5493.0, 5432.0, 5346.0, 5703.0, 5705.0, 5362.0, 5692.0, 5375.0, 5345.0, 5398.0, 5536.0, 5378.0 (number of hits: 5)
8	5596	9	1	333	1	5695.0, 5441.0, 5422.0, 5276.0, 5460.0, 5313.0, 5469.0, 5671.0, 5718.0, 5316.0, 5488.0, 5606.0, 5482.0, 5397.0, 5532.0, 5343.0, 5691.0, 5421.0, 5484.0, 5524.0, 5360.0, 5480.0, 5446.0, 5659.0, 5334.0, 5409.0, 5549.0, 5453.0, 5385.0, 5637.0, 5500.0, 5350.0, 5604.0, 5450.0, 5393.0, 5601.0, 5545.0, 5672.0, 5613.0, 5664.0, 5293.0, 5673.0,

						5325.0, 5473.0, 5252.0, 5553.0, 5699.0, 5498.0, 5665.0, 5290.0, 5344.0, 5372.0, 5405.0, 5371.0, 5534.0, 5715.0, 5391.0, 5605.0, 5434.0, 5701.0, 5564.0, 5377.0, 5600.0, 5337.0, 5319.0, 5413.0, 5621.0, 5713.0, 5463.0, 5387.0, 5555.0, 5400.0, 5511.0, 5661.0, 5324.0, 5307.0, 5364.0, 5720.0, 5680.0, 5652.0, 5492.0, 5596.0, 5322.0, 5679.0, 5280.0, 5415.0, 5619.0, 5654.0, 5274.0, 5586.0, 5618.0, 5547.0, 5530.0, 5685.0, 5269.0, 5642.0, 5257.0, 5376.0, 5712.0, 5497.0 (number of hits: 7)
9	5597	9	1	333	1	5469.0, 5393.0, 5396.0, 5395.0, 5619.0, 5409.0, 5434.0, 5531.0, 5705.0, 5522.0, 5488.0, 5314.0, 5552.0, 5310.0, 5520.0, 5590.0, 5412.0, 5651.0, 5526.0, 5389.0, 5424.0, 5316.0, 5628.0, 5419.0, 5455.0, 5465.0, 5495.0, 5527.0, 5530.0, 5430.0, 5599.0, 5418.0, 5453.0, 5652.0, 5287.0, 5391.0, 5589.0, 5697.0, 5529.0, 5611.0, 5309.0, 5597.0, 5566.0, 5401.0, 5622.0, 5329.0, 5440.0, 5263.0, 5673.0, 5709.0, 5277.0, 5578.0, 5712.0, 5528.0, 5492.0, 5260.0, 5588.0, 5413.0, 5510.0, 5532.0, 5487.0, 5279.0, 5438.0, 5403.0, 5658.0, 5273.0, 5649.0, 5642.0, 5336.0, 5639.0, 5500.0, 5402.0, 5565.0, 5501.0, 5379.0, 5584.0, 5473.0, 5629.0, 5414.0, 5650.0, 5435.0, 5575.0, 5472.0, 5646.0, 5470.0, 5311.0, 5466.0, 5320.0, 5538.0, 5304.0, 5255.0, 5468.0, 5618.0, 5509.0, 5583.0, 5702.0, 5331.0, 5431.0, 5293.0, 5550.0 (number of hits: 9)
10	5598	9	1	333	1	5337.0, 5273.0, 5578.0, 5350.0, 5419.0, 5724.0, 5637.0, 5542.0, 5465.0, 5427.0, 5446.0, 5440.0, 5354.0, 5564.0, 5269.0, 5395.0, 5523.0, 5659.0, 5412.0, 5694.0, 5514.0, 5428.0, 5330.0, 5685.0, 5334.0, 5696.0, 5250.0, 5681.0, 5632.0, 5486.0, 5693.0, 5538.0, 5654.0, 5700.0, 5281.0, 5326.0, 5629.0, 5577.0, 5488.0, 5627.0, 5686.0, 5484.0, 5353.0, 5621.0, 5254.0, 5545.0, 5325.0, 5372.0, 5399.0, 5284.0, 5539.0, 5690.0, 5698.0, 5487.0, 5507.0, 5620.0, 5579.0, 5275.0, 5616.0, 5327.0, 5409.0, 5595.0, 5257.0, 5280.0, 5613.0, 5339.0, 5515.0, 5506.0, 5639.0, 5516.0, 5560.0, 5283.0, 5505.0, 5526.0, 5471.0, 5252.0, 5288.0, 5404.0, 5641.0, 5379.0, 5385.0, 5572.0, 5360.0, 5410.0, 5475.0, 5493.0, 5555.0, 5618.0, 5290.0, 5701.0, 5622.0, 5439.0, 5510.0, 5494.0, 5648.0, 5606.0, 5369.0, 5321.0, 5502.0, 5310.0 (number of hits: 6)
11	5599	9	1	333	1	5674.0, 5377.0, 5342.0, 5354.0, 5284.0, 5538.0, 5493.0, 5322.0, 5665.0, 5480.0, 5410.0, 5282.0, 5675.0, 5578.0, 5646.0, 5412.0, 5516.0, 5273.0, 5394.0, 5637.0, 5573.0, 5561.0, 5295.0, 5401.0, 5517.0, 5677.0, 5281.0, 5426.0, 5390.0, 5350.0, 5367.0, 5562.0, 5535.0, 5566.0, 5262.0, 5716.0, 5289.0, 5657.0, 5625.0, 5575.0, 5524.0, 5399.0, 5552.0, 5314.0, 5278.0, 5685.0, 5364.0, 5334.0, 5503.0, 5495.0, 5681.0, 5403.0, 5509.0, 5388.0, 5469.0, 5408.0, 5400.0, 5274.0, 5641.0, 5687.0, 5369.0, 5318.0, 5478.0, 5471.0, 5349.0, 5611.0, 5414.0, 5651.0, 5484.0, 5585.0, 5280.0, 5513.0, 5404.0, 5635.0, 5340.0, 5327.0, 5440.0, 5688.0, 5336.0, 5606.0, 5560.0, 5277.0, 5647.0, 5386.0, 5356.0, 5596.0, 5352.0, 5549.0, 5705.0, 5256.0, 5616.0, 5603.0, 5357.0, 5487.0, 5396.0, 5275.0, 5252.0, 5673.0, 5348.0, 5285.0 (number of hits: 7)
12	5600	9	1	333	1	5283.0, 5290.0, 5296.0, 5589.0, 5346.0, 5529.0, 5382.0, 5395.0, 5321.0, 5512.0, 5428.0, 5502.0, 5628.0, 5580.0, 5544.0, 5555.0, 5286.0, 5270.0, 5372.0, 5448.0, 5320.0, 5488.0, 5698.0, 5645.0, 5298.0, 5651.0, 5469.0, 5593.0,

						5662.0, 5357.0, 5335.0, 5527.0, 5318.0, 5390.0, 5387.0, 5615.0, 5506.0, 5453.0, 5426.0, 5507.0, 5490.0, 5440.0, 5412.0, 5644.0, 5377.0, 5635.0, 5713.0, 5463.0, 5438.0, 5370.0, 5576.0, 5352.0, 5365.0, 5258.0, 5429.0, 5306.0, 5475.0, 5630.0, 5706.0, 5317.0, 5435.0, 5587.0, 5353.0, 5722.0, 5624.0, 5570.0, 5584.0, 5406.0, 5588.0, 5632.0, 5465.0, 5399.0, 5724.0, 5523.0, 5257.0, 5526.0, 5483.0, 5439.0, 5383.0, 5477.0, 5684.0, 5516.0, 5614.0, 5304.0, 5252.0, 5348.0, 5253.0, 5422.0, 5709.0, 5414.0, 5401.0, 5313.0, 5334.0, 5274.0, 5664.0, 5284.0, 5416.0, 5259.0, 5618.0, 5672.0 (number of hits: 8)
13	5601	9	1	333	1	5535.0, 5412.0, 5562.0, 5425.0, 5636.0, 5630.0, 5716.0, 5341.0, 5418.0, 5368.0, 5303.0, 5419.0, 5289.0, 5301.0, 5372.0, 5404.0, 5496.0, 5715.0, 5375.0, 5625.0, 5457.0, 5618.0, 5667.0, 5507.0, 5361.0, 5262.0, 5572.0, 5703.0, 5672.0, 5335.0, 5329.0, 5704.0, 5458.0, 5349.0, 5561.0, 5530.0, 5261.0, 5461.0, 5363.0, 5663.0, 5634.0, 5680.0, 5673.0, 5320.0, 5401.0, 5358.0, 5282.0, 5293.0, 5509.0, 5433.0, 5304.0, 5489.0, 5560.0, 5316.0, 5641.0, 5393.0, 5446.0, 5520.0, 5321.0, 5376.0, 5579.0, 5275.0, 5604.0, 5575.0, 5615.0, 5455.0, 5388.0, 5528.0, 5369.0, 5406.0, 5656.0, 5257.0, 5635.0, 5345.0, 5308.0, 5600.0, 5278.0, 5371.0, 5327.0, 5566.0, 5688.0, 5333.0, 5709.0, 5475.0, 5251.0, 5591.0, 5347.0, 5385.0, 5269.0, 5545.0, 5510.0, 5521.0, 5490.0, 5502.0, 5655.0, 5710.0, 5267.0, 5661.0, 5415.0, 5396.0 (number of hits: 6)
14	5602	9	1	333	1	5705.0, 5510.0, 5584.0, 5603.0, 5289.0, 5333.0, 5670.0, 5671.0, 5630.0, 5697.0, 5634.0, 5315.0, 5656.0, 5440.0, 5649.0, 5497.0, 5425.0, 5331.0, 5474.0, 5678.0, 5335.0, 5252.0, 5276.0, 5657.0, 5577.0, 5259.0, 5588.0, 5638.0, 5674.0, 5629.0, 5503.0, 5382.0, 5531.0, 5399.0, 5722.0, 5618.0, 5623.0, 5421.0, 5668.0, 5318.0, 5281.0, 5714.0, 5388.0, 5327.0, 5717.0, 5369.0, 5294.0, 5599.0, 5594.0, 5550.0, 5377.0, 5478.0, 5592.0, 5441.0, 5316.0, 5616.0, 5694.0, 5512.0, 5602.0, 5257.0, 5554.0, 5314.0, 5317.0, 5458.0, 5642.0, 5274.0, 5473.0, 5459.0, 5612.0, 5403.0, 5641.0, 5449.0, 5692.0, 5689.0, 5374.0, 5573.0, 5530.0, 5669.0, 5254.0, 5667.0, 5583.0, 5646.0, 5675.0, 5655.0, 5395.0, 5260.0, 5419.0, 5590.0, 5586.0, 5356.0, 5286.0, 5704.0, 5604.0, 5464.0, 5303.0, 5352.0, 5627.0, 5715.0, 5540.0, 5492.0 (number of hits: 13)
15	5603	9	1	333	1	5453.0, 5619.0, 5607.0, 5540.0, 5591.0, 5378.0, 5351.0, 5585.0, 5670.0, 5522.0, 5349.0, 5313.0, 5722.0, 5323.0, 5570.0, 5344.0, 5372.0, 5260.0, 5276.0, 5295.0, 5561.0, 5473.0, 5654.0, 5275.0, 5402.0, 5551.0, 5405.0, 5484.0, 5659.0, 5334.0, 5355.0, 5623.0, 5255.0, 5354.0, 5541.0, 5524.0, 5656.0, 5538.0, 5677.0, 5649.0, 5366.0, 5424.0, 5442.0, 5657.0, 5443.0, 5704.0, 5410.0, 5264.0, 5417.0, 5293.0, 5251.0, 5505.0, 5368.0, 5352.0, 5652.0, 5543.0, 5512.0, 5362.0, 5588.0, 5552.0, 5661.0, 5605.0, 5292.0, 5398.0, 5710.0, 5537.0, 5598.0, 5311.0, 5572.0, 5422.0, 5434.0, 5296.0, 5629.0, 5633.0, 5375.0, 5713.0, 5406.0, 5343.0, 5328.0, 5671.0, 5394.0, 5630.0, 5461.0, 5412.0, 5414.0, 5342.0, 5502.0, 5701.0, 5599.0, 5278.0, 5345.0, 5681.0, 5627.0, 5457.0, 5696.0, 5468.0, 5637.0, 5436.0, 5655.0, 5672.0 (number of hits: 9)
16	5604	9	1	333	1	5618.0, 5372.0, 5295.0, 5399.0, 5598.0, 5471.0, 5335.0, 5690.0, 5293.0, 5315.0, 5252.0, 5445.0, 5309.0, 5609.0,

						5577.0, 5253.0, 5588.0, 5375.0, 5515.0, 5475.0, 5709.0, 5324.0, 5644.0, 5373.0, 5407.0, 5463.0, 5326.0, 5614.0, 5554.0, 5628.0, 5456.0, 5388.0, 5441.0, 5613.0, 5689.0, 5648.0, 5633.0, 5497.0, 5649.0, 5427.0, 5594.0, 5589.0, 5435.0, 5282.0, 5650.0, 5476.0, 5585.0, 5509.0, 5409.0, 5280.0, 5718.0, 5517.0, 5357.0, 5702.0, 5686.0, 5523.0, 5459.0, 5626.0, 5670.0, 5597.0, 5330.0, 5391.0, 5486.0, 5493.0, 5310.0, 5421.0, 5605.0, 5669.0, 5347.0, 5352.0, 5567.0, 5672.0, 5719.0, 5564.0, 5685.0, 5555.0, 5468.0, 5284.0, 5622.0, 5634.0, 5444.0, 5349.0, 5503.0, 5320.0, 5531.0, 5358.0, 5632.0, 5303.0, 5630.0, 5374.0, 5581.0, 5524.0, 5624.0, 5708.0, 5623.0, 5527.0, 5365.0, 5601.0, 5277.0, 5383.0 (number of hits: 11)
17	5589	9	1	333	1	5357.0, 5632.0, 5279.0, 5299.0, 5478.0, 5612.0, 5620.0, 5473.0, 5497.0, 5496.0, 5438.0, 5296.0, 5610.0, 5618.0, 5678.0, 5623.0, 5404.0, 5451.0, 5714.0, 5719.0, 5622.0, 5490.0, 5505.0, 5398.0, 5493.0, 5311.0, 5255.0, 5648.0, 5400.0, 5567.0, 5335.0, 5647.0, 5502.0, 5602.0, 5499.0, 5679.0, 5661.0, 5550.0, 5533.0, 5568.0, 5373.0, 5396.0, 5696.0, 5486.0, 5538.0, 5603.0, 5336.0, 5713.0, 5504.0, 5405.0, 5413.0, 5566.0, 5627.0, 5592.0, 5434.0, 5718.0, 5309.0, 5356.0, 5654.0, 5281.0, 5589.0, 5657.0, 5554.0, 5295.0, 5532.0, 5549.0, 5693.0, 5498.0, 5304.0, 5676.0, 5317.0, 5681.0, 5611.0, 5440.0, 5700.0, 5421.0, 5252.0, 5394.0, 5652.0, 5709.0, 5593.0, 5260.0, 5393.0, 5324.0, 5457.0, 5354.0, 5469.0, 5365.0, 5301.0, 5666.0, 5343.0, 5468.0, 5503.0, 5507.0, 5584.0, 5683.0, 5682.0, 5514.0, 5562.0, 5345.0 (number of hits: 6)
18	5588	9	1	333	1	5661.0, 5687.0, 5355.0, 5663.0, 5513.0, 5410.0, 5722.0, 5581.0, 5705.0, 5256.0, 5345.0, 5328.0, 5621.0, 5634.0, 5329.0, 5657.0, 5393.0, 5444.0, 5582.0, 5466.0, 5324.0, 5514.0, 5320.0, 5406.0, 5272.0, 5575.0, 5296.0, 5578.0, 5399.0, 5258.0, 5577.0, 5467.0, 5711.0, 5463.0, 5517.0, 5445.0, 5697.0, 5606.0, 5629.0, 5262.0, 5386.0, 5717.0, 5457.0, 5692.0, 5505.0, 5432.0, 5440.0, 5579.0, 5295.0, 5601.0, 5378.0, 5573.0, 5289.0, 5615.0, 5488.0, 5715.0, 5527.0, 5616.0, 5325.0, 5612.0, 5282.0, 5354.0, 5447.0, 5458.0, 5576.0, 5413.0, 5598.0, 5655.0, 5263.0, 5626.0, 5450.0, 5401.0, 5625.0, 5452.0, 5648.0, 5718.0, 5546.0, 5632.0, 5283.0, 5683.0, 5569.0, 5253.0, 5479.0, 5523.0, 5316.0, 5333.0, 5678.0, 5484.0, 5637.0, 5550.0, 5650.0, 5540.0, 5255.0, 5604.0, 5709.0, 5433.0, 5271.0, 5563.0, 5617.0, 5647.0 (number of hits: 12)
19	5587	9	1	333	1	5697.0, 5490.0, 5448.0, 5371.0, 5335.0, 5603.0, 5433.0, 5290.0, 5319.0, 5466.0, 5578.0, 5651.0, 5656.0, 5291.0, 5469.0, 5584.0, 5287.0, 5473.0, 5284.0, 5566.0, 5367.0, 5254.0, 5289.0, 5485.0, 5378.0, 5474.0, 5380.0, 5534.0, 5548.0, 5703.0, 5637.0, 5705.0, 5622.0, 5306.0, 5564.0, 5554.0, 5308.0, 5471.0, 5435.0, 5405.0, 5463.0, 5660.0, 5255.0, 5573.0, 5452.0, 5649.0, 5500.0, 5570.0, 5549.0, 5507.0, 5261.0, 5596.0, 5438.0, 5423.0, 5321.0, 5278.0, 5633.0, 5626.0, 5264.0, 5577.0, 5293.0, 5445.0, 5346.0, 5543.0, 5540.0, 5484.0, 5569.0, 5382.0, 5400.0, 5545.0, 5574.0, 5658.0, 5483.0, 5429.0, 5437.0, 5273.0, 5580.0, 5689.0, 5340.0, 5373.0, 5608.0, 5481.0, 5563.0, 5427.0, 5672.0, 5673.0, 5643.0, 5370.0, 5530.0, 5708.0, 5406.0, 5455.0, 5337.0, 5562.0, 5609.0, 5663.0, 5716.0, 5594.0, 5449.0, 5715.0 (number of hits: 12)

20	5586	9	1	333	1	5343.0, 5364.0, 5276.0, 5433.0, 5531.0, 5277.0, 5657.0, 5258.0, 5392.0, 5624.0, 5710.0, 5477.0, 5485.0, 5273.0, 5413.0, 5449.0, 5344.0, 5484.0, 5513.0, 5375.0, 5651.0, 5503.0, 5368.0, 5289.0, 5636.0, 5408.0, 5265.0, 5534.0, 5530.0, 5597.0, 5410.0, 5359.0, 5465.0, 5416.0, 5614.0, 5403.0, 5297.0, 5294.0, 5384.0, 5455.0, 5707.0, 5332.0, 5508.0, 5644.0, 5443.0, 5302.0, 5557.0, 5609.0, 5454.0, 5269.0, 5251.0, 5562.0, 5373.0, 5321.0, 5533.0, 5695.0, 5309.0, 5486.0, 5501.0, 5684.0, 5400.0, 5664.0, 5351.0, 5551.0, 5720.0, 5290.0, 5583.0, 5354.0, 5607.0, 5422.0, 5667.0, 5259.0, 5612.0, 5618.0, 5261.0, 5275.0, 5608.0, 5547.0, 5524.0, 5357.0, 5431.0, 5284.0, 5313.0, 5701.0, 5522.0, 5481.0, 5546.0, 5593.0, 5715.0, 5641.0, 5267.0, 5688.0, 5401.0, 5584.0, 5708.0, 5685.0, 5563.0, 5542.0, 5671.0, 5417.0 (number of hits: 7)
21	5585	9	1	333	1	5487.0, 5344.0, 5458.0, 5493.0, 5631.0, 5558.0, 5689.0, 5307.0, 5616.0, 5540.0, 5683.0, 5583.0, 5590.0, 5546.0, 5369.0, 5286.0, 5654.0, 5596.0, 5301.0, 5258.0, 5675.0, 5528.0, 5384.0, 5350.0, 5324.0, 5480.0, 5627.0, 5638.0, 5688.0, 5500.0, 5356.0, 5614.0, 5481.0, 5310.0, 5587.0, 5657.0, 5642.0, 5499.0, 5544.0, 5457.0, 5703.0, 5373.0, 5707.0, 5377.0, 5378.0, 5273.0, 5581.0, 5475.0, 5586.0, 5318.0, 5570.0, 5612.0, 5385.0, 5697.0, 5486.0, 5441.0, 5705.0, 5438.0, 5374.0, 5621.0, 5402.0, 5539.0, 5455.0, 5501.0, 5700.0, 5464.0, 5502.0, 5272.0, 5389.0, 5399.0, 5386.0, 5263.0, 5461.0, 5433.0, 5471.0, 5619.0, 5322.0, 5306.0, 5325.0, 5479.0, 5698.0, 5376.0, 5375.0, 5565.0, 5533.0, 5649.0, 5722.0, 5568.0, 5567.0, 5351.0, 5548.0, 5345.0, 5620.0, 5425.0, 5534.0, 5299.0, 5364.0, 5417.0, 5490.0, 5388.0 (number of hits: 7)
22	5584	9	1	333	1	5596.0, 5548.0, 5279.0, 5308.0, 5346.0, 5413.0, 5266.0, 5574.0, 5390.0, 5440.0, 5348.0, 5465.0, 5509.0, 5500.0, 5481.0, 5319.0, 5492.0, 5606.0, 5645.0, 5702.0, 5295.0, 5282.0, 5323.0, 5488.0, 5381.0, 5653.0, 5267.0, 5443.0, 5365.0, 5320.0, 5612.0, 5421.0, 5561.0, 5490.0, 5601.0, 5476.0, 5534.0, 5563.0, 5379.0, 5411.0, 5706.0, 5432.0, 5670.0, 5558.0, 5334.0, 5625.0, 5400.0, 5425.0, 5403.0, 5430.0, 5410.0, 5397.0, 5611.0, 5578.0, 5630.0, 5377.0, 5362.0, 5568.0, 5343.0, 5506.0, 5662.0, 5278.0, 5532.0, 5464.0, 5556.0, 5330.0, 5263.0, 5477.0, 5389.0, 5257.0, 5352.0, 5683.0, 5252.0, 5364.0, 5483.0, 5333.0, 5337.0, 5437.0, 5311.0, 5253.0, 5637.0, 5527.0, 5368.0, 5689.0, 5668.0, 5504.0, 5629.0, 5632.0, 5667.0, 5369.0, 5695.0, 5555.0, 5386.0, 5593.0, 5272.0, 5522.0, 5613.0, 5435.0, 5641.0, 5414.0 (number of hits: 6)
23	5583	9	1	333	1	5318.0, 5468.0, 5611.0, 5425.0, 5642.0, 5466.0, 5649.0, 5676.0, 5683.0, 5542.0, 5254.0, 5634.0, 5275.0, 5282.0, 5616.0, 5529.0, 5422.0, 5724.0, 5339.0, 5705.0, 5499.0, 5257.0, 5401.0, 5650.0, 5684.0, 5669.0, 5600.0, 5534.0, 5332.0, 5550.0, 5443.0, 5294.0, 5442.0, 5722.0, 5363.0, 5272.0, 5619.0, 5331.0, 5503.0, 5320.0, 5424.0, 5396.0, 5475.0, 5400.0, 5467.0, 5536.0, 5405.0, 5264.0, 5267.0, 5562.0, 5625.0, 5259.0, 5527.0, 5621.0, 5609.0, 5473.0, 5491.0, 5279.0, 5678.0, 5540.0, 5469.0, 5459.0, 5494.0, 5721.0, 5413.0, 5656.0, 5522.0, 5679.0, 5582.0, 5456.0, 5504.0, 5694.0, 5647.0, 5372.0, 5389.0, 5664.0, 5635.0, 5526.0, 5581.0, 5583.0, 5387.0, 5328.0, 5273.0, 5620.0, 5480.0, 5314.0, 5682.0, 5334.0, 5486.0, 5560.0, 5385.0,

						5297.0, 5709.0, 5702.0, 5353.0, 5366.0, 5252.0, 5465.0, 5261.0, 5717.0 (number of hits: 5)
24	5582	9	1	333	0	5535.0, 5412.0, 5562.0, 5425.0, 5636.0, 5630.0, 5716.0, 5341.0, 5418.0, 5368.0, 5303.0, 5419.0, 5289.0, 5301.0, 5372.0, 5404.0, 5496.0, 5715.0, 5375.0, 5625.0, 5457.0, 5618.0, 5667.0, 5507.0, 5361.0, 5262.0, 5572.0, 5703.0, 5672.0, 5335.0, 5329.0, 5704.0, 5458.0, 5349.0, 5561.0, 5530.0, 5261.0, 5461.0, 5363.0, 5663.0, 5634.0, 5680.0, 5673.0, 5320.0, 5401.0, 5358.0, 5282.0, 5293.0, 5509.0, 5433.0, 5304.0, 5489.0, 5560.0, 5316.0, 5641.0, 5393.0, 5446.0, 5520.0, 5321.0, 5376.0, 5579.0, 5275.0, 5604.0, 5575.0, 5615.0, 5455.0, 5388.0, 5528.0, 5369.0, 5406.0, 5656.0, 5257.0, 5635.0, 5345.0, 5308.0, 5600.0, 5278.0, 5371.0, 5327.0, 5566.0, 5688.0, 5333.0, 5709.0, 5475.0, 5251.0, 5591.0, 5347.0, 5385.0, 5269.0, 5545.0, 5510.0, 5521.0, 5490.0, 5502.0, 5655.0, 5710.0, 5267.0, 5661.0, 5415.0, 5396.0 (number of hits: 6)
25	5581	9	1	333	1	5655.0, 5295.0, 5685.0, 5571.0, 5494.0, 5500.0, 5384.0, 5410.0, 5681.0, 5537.0, 5428.0, 5657.0, 5254.0, 5366.0, 5554.0, 5612.0, 5393.0, 5420.0, 5430.0, 5378.0, 5608.0, 5668.0, 5309.0, 5396.0, 5670.0, 5507.0, 5385.0, 5577.0, 5562.0, 5352.0, 5633.0, 5321.0, 5332.0, 5606.0, 5586.0, 5497.0, 5722.0, 5529.0, 5351.0, 5502.0, 5493.0, 5629.0, 5718.0, 5456.0, 5287.0, 5350.0, 5290.0, 5488.0, 5676.0, 5598.0, 5624.0, 5302.0, 5638.0, 5639.0, 5356.0, 5545.0, 5595.0, 5422.0, 5479.0, 5709.0, 5312.0, 5552.0, 5285.0, 5510.0, 5499.0, 5702.0, 5703.0, 5260.0, 5705.0, 5596.0, 5272.0, 5677.0, 5592.0, 5561.0, 5297.0, 5258.0, 5334.0, 5407.0, 5689.0, 5675.0, 5283.0, 5686.0, 5402.0, 5281.0, 5615.0, 5504.0, 5696.0, 5523.0, 5405.0, 5555.0, 5318.0, 5513.0, 5406.0, 5316.0, 5437.0, 5391.0, 5646.0, 5580.0, 5514.0, 5581.0 (number of hits: 11)
26	5580	9	1	333	1	5600.0, 5698.0, 5615.0, 5670.0, 5579.0, 5346.0, 5336.0, 5252.0, 5686.0, 5420.0, 5423.0, 5549.0, 5711.0, 5372.0, 5435.0, 5604.0, 5684.0, 5639.0, 5466.0, 5650.0, 5671.0, 5694.0, 5362.0, 5387.0, 5338.0, 5581.0, 5307.0, 5388.0, 5603.0, 5259.0, 5636.0, 5302.0, 5511.0, 5265.0, 5434.0, 5582.0, 5505.0, 5627.0, 5569.0, 5485.0, 5270.0, 5545.0, 5675.0, 5473.0, 5641.0, 5413.0, 5667.0, 5414.0, 5452.0, 5469.0, 5508.0, 5520.0, 5437.0, 5514.0, 5561.0, 5288.0, 5364.0, 5699.0, 5567.0, 5580.0, 5719.0, 5337.0, 5635.0, 5419.0, 5659.0, 5417.0, 5325.0, 5477.0, 5355.0, 5406.0, 5470.0, 5257.0, 5673.0, 5324.0, 5503.0, 5481.0, 5262.0, 5601.0, 5415.0, 5397.0, 5450.0, 5633.0, 5554.0, 5320.0, 5389.0, 5459.0, 5597.0, 5382.0, 5287.0, 5573.0, 5291.0, 5267.0, 5306.0, 5568.0, 5575.0, 5552.0, 5642.0, 5379.0, 5301.0, 5373.0 (number of hits: 11)
27	5579	9	1	333	1	5337.0, 5524.0, 5311.0, 5407.0, 5435.0, 5579.0, 5545.0, 5637.0, 5499.0, 5381.0, 5609.0, 5300.0, 5714.0, 5557.0, 5506.0, 5469.0, 5660.0, 5315.0, 5632.0, 5587.0, 5704.0, 5359.0, 5633.0, 5380.0, 5309.0, 5325.0, 5261.0, 5503.0, 5345.0, 5634.0, 5338.0, 5367.0, 5301.0, 5393.0, 5426.0, 5718.0, 5556.0, 5424.0, 5481.0, 5336.0, 5480.0, 5278.0, 5466.0, 5341.0, 5410.0, 5507.0, 5723.0, 5698.0, 5353.0, 5335.0, 5404.0, 5331.0, 5440.0, 5304.0, 5411.0, 5568.0, 5423.0, 5409.0, 5290.0, 5318.0, 5689.0, 5416.0, 5455.0, 5412.0, 5685.0, 5332.0, 5613.0, 5254.0, 5555.0, 5302.0, 5403.0, 5334.0, 5626.0, 5508.0, 5657.0, 5559.0, 5541.0,

						5512.0, 5436.0, 5548.0, 5611.0, 5357.0, 5560.0, 5647.0, 5388.0, 5500.0, 5490.0, 5571.0, 5351.0, 5630.0, 5666.0, 5417.0, 5562.0, 5326.0, 5615.0, 5688.0, 5310.0, 5572.0, 5663.0, 5716.0 (number of hits: 5)
28	5578	9	1	333	1	5564.0, 5722.0, 5613.0, 5626.0, 5646.0, 5529.0, 5590.0, 5266.0, 5284.0, 5552.0, 5368.0, 5584.0, 5697.0, 5475.0, 5525.0, 5585.0, 5634.0, 5605.0, 5598.0, 5378.0, 5595.0, 5682.0, 5275.0, 5392.0, 5288.0, 5376.0, 5398.0, 5296.0, 5283.0, 5483.0, 5557.0, 5544.0, 5425.0, 5431.0, 5377.0, 5710.0, 5707.0, 5373.0, 5463.0, 5537.0, 5683.0, 5546.0, 5293.0, 5709.0, 5384.0, 5554.0, 5688.0, 5290.0, 5445.0, 5382.0, 5417.0, 5481.0, 5462.0, 5519.0, 5592.0, 5534.0, 5372.0, 5704.0, 5703.0, 5362.0, 5580.0, 5342.0, 5653.0, 5253.0, 5356.0, 5359.0, 5324.0, 5632.0, 5517.0, 5352.0, 5307.0, 5258.0, 5713.0, 5524.0, 5450.0, 5428.0, 5609.0, 5370.0, 5661.0, 5555.0, 5670.0, 5251.0, 5610.0, 5497.0, 5515.0, 5527.0, 5640.0, 5385.0, 5658.0, 5543.0, 5312.0, 5698.0, 5702.0, 5364.0, 5477.0, 5663.0, 5452.0, 5712.0, 5346.0, 5441.0 (number of hits: 9)
29	5577	9	1	333	1	5295.0, 5615.0, 5310.0, 5342.0, 5601.0, 5503.0, 5589.0, 5474.0, 5671.0, 5362.0, 5619.0, 5531.0, 5293.0, 5405.0, 5415.0, 5557.0, 5383.0, 5287.0, 5521.0, 5490.0, 5466.0, 5351.0, 5662.0, 5691.0, 5493.0, 5379.0, 5682.0, 5393.0, 5622.0, 5395.0, 5318.0, 5703.0, 5599.0, 5448.0, 5482.0, 5477.0, 5371.0, 5528.0, 5301.0, 5607.0, 5610.0, 5540.0, 5457.0, 5254.0, 5411.0, 5284.0, 5483.0, 5445.0, 5603.0, 5340.0, 5659.0, 5582.0, 5591.0, 5574.0, 5517.0, 5268.0, 5361.0, 5394.0, 5317.0, 5433.0, 5366.0, 5640.0, 5333.0, 5406.0, 5255.0, 5684.0, 5566.0, 5524.0, 5539.0, 5542.0, 5658.0, 5479.0, 5397.0, 5669.0, 5624.0, 5581.0, 5420.0, 5408.0, 5344.0, 5676.0, 5577.0, 5510.0, 5578.0, 5313.0, 5363.0, 5460.0, 5357.0, 5442.0, 5271.0, 5402.0, 5722.0, 5475.0, 5267.0, 5372.0, 5666.0, 5718.0, 5326.0, 5555.0, 5614.0, 5375.0 (number of hits: 11)
30	5576	9	1	333	1	5646.0, 5458.0, 5506.0, 5601.0, 5680.0, 5675.0, 5272.0, 5551.0, 5308.0, 5607.0, 5587.0, 5319.0, 5401.0, 5497.0, 5266.0, 5687.0, 5560.0, 5275.0, 5258.0, 5548.0, 5647.0, 5317.0, 5706.0, 5273.0, 5284.0, 5583.0, 5723.0, 5619.0, 5543.0, 5427.0, 5629.0, 5692.0, 5700.0, 5595.0, 5423.0, 5451.0, 5391.0, 5638.0, 5431.0, 5450.0, 5420.0, 5546.0, 5598.0, 5384.0, 5457.0, 5455.0, 5710.0, 5402.0, 5288.0, 5259.0, 5350.0, 5390.0, 5404.0, 5669.0, 5312.0, 5487.0, 5279.0, 5386.0, 5463.0, 5575.0, 5651.0, 5617.0, 5708.0, 5707.0, 5610.0, 5449.0, 5299.0, 5661.0, 5283.0, 5256.0, 5688.0, 5584.0, 5645.0, 5347.0, 5641.0, 5628.0, 5636.0, 5406.0, 5655.0, 5525.0, 5297.0, 5379.0, 5255.0, 5536.0, 5324.0, 5643.0, 5293.0, 5251.0, 5285.0, 5395.0, 5526.0, 5460.0, 5437.0, 5432.0, 5398.0, 5672.0, 5649.0, 5339.0, 5573.0, 5382.0 (number of hits: 9)

5600 MHz

Radarsignal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1	30	100 %	60%	Pass
Type 2	30	86.7 %	60%	Pass
Type 3	30	100 %	60%	Pass
Type 4	30	100 %	60%	Pass
Aggregate (Type1 to 4)	120	96.7 %	80%	Pass
Type 5	30	100 %	80%	Pass
Type 6	30	100 %	70%	Pass

Please refer to the following statistical tables:

Table-1 Radar Type 1 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5600	18	1	1428	1
2	5600	18	1	1428	1
3	5600	18	1	1428	1
4	5600	18	1	1428	1
5	5600	18	1	1428	1
6	5600	18	1	1428	1
7	5600	18	1	1428	1
8	5600	18	1	1428	1
9	5600	18	1	1428	1
10	5600	18	1	1428	1
11	5600	18	1	1428	1
12	5600	18	1	1428	1
13	5600	18	1	1428	1
14	5600	18	1	1428	1
15	5600	18	1	1428	1
16	5600	18	1	1428	1
17	5600	18	1	1428	1
18	5600	18	1	1428	1
19	5600	18	1	1428	1
20	5600	18	1	1428	1
21	5600	18	1	1428	1

22	5600	18	1	1428	1
23	5600	18	1	1428	1
24	5600	18	1	1428	1
25	5600	18	1	1428	1
26	5600	18	1	1428	1
27	5600	18	1	1428	1
28	5600	18	1	1428	1
29	5600	18	1	1428	1
30	5600	18	1	1428	1
Detection Percentage: 100 % (>60%)					

Table-2 Radar Type 2 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5600	23	1	224	1
2	5600	24	1.4	210	1
3	5600	29	4.2	203	1
4	5600	26	4.1	214	1
5	5600	26	4.1	229	1
6	5600	26	2.8	196	0
7	5600	24	3.1	177	1
8	5600	26	4.1	171	1
9	5600	29	1.5	166	0
10	5600	27	1	150	1
11	5600	28	2.3	219	1
12	5600	28	1.7	192	0
13	5600	27	1.2	155	1
14	5600	29	3.2	199	1
15	5600	28	3.5	159	1
16	5600	25	3.6	175	1
17	5600	23	1.7	197	1
18	5600	23	3.3	171	1
19	5600	28	3.9	175	1
20	5600	24	3.1	220	1
21	5600	25	4.7	205	1
22	5600	27	1.1	168	1
23	5600	26	2	151	0
24	5600	28	3.3	219	1
25	5600	24	1.3	215	1

26	5600	25	4.5	182	1
27	5600	29	1.8	221	1
28	5600	25	3.9	151	1
29	5600	26	1.2	227	1
30	5600	29	3.5	160	1
Detection Percentage: 86.7% (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5600	18	7.4	439	1
2	5600	17	6.3	379	1
3	5600	16	9.1	246	1
4	5600	16	9.4	253	1
5	5600	18	7.1	246	1
6	5600	18	6.8	359	1
7	5600	18	8.4	425	1
8	5600	17	9.3	298	1
9	5600	17	6.1	429	1
10	5600	18	8.1	295	1
11	5600	17	6.2	353	1
12	5600	18	9.2	363	1
13	5600	18	6.6	469	1
14	5600	18	8.8	204	1
15	5600	16	10	493	1
16	5600	18	10	433	1
17	5600	18	9.6	484	1
18	5600	16	8.9	216	1
19	5600	18	9.9	480	1
20	5600	17	6	484	1
21	5600	17	7.9	426	1
22	5600	16	6.9	475	1
23	5600	16	7.7	211	1
24	5600	17	9.6	346	1
25	5600	18	8.2	498	1
26	5600	17	9.1	365	1
27	5600	18	7.2	362	1
28	5600	18	8.8	399	1
29	5600	16	8	470	1
30	5600	16	9.5	325	1

Detection Percentage: 100 % (>60%)
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Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5600	15	16.4	489	1
2	5600	15	17.6	441	1
3	5600	13	15.9	500	1
4	5600	13	17.4	210	1
5	5600	12	18.6	398	1
6	5600	12	15.8	452	1
7	5600	13	15.6	457	1
8	5600	16	12.5	283	1
9	5600	12	12.5	451	1
10	5600	13	13.1	470	1
11	5600	13	15.7	446	1
12	5600	13	12.5	374	1
13	5600	15	12	258	1
14	5600	16	11.4	206	1
15	5600	12	19.5	355	1
16	5600	13	14.8	299	1
17	5600	15	13	471	1
18	5600	14	18.4	288	1
19	5600	12	16.9	352	1
20	5600	15	17.1	315	1
21	5600	15	15.3	207	1
22	5600	15	12	334	1
23	5600	14	14.7	234	1
24	5600	16	14.6	471	1
25	5600	12	17.2	477	1
26	5600	13	12.7	246	1
27	5600	14	13.7	343	1
28	5600	16	11.1	339	1
29	5600	14	15.3	285	1
30	5600	12	19.3	380	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	69.1	1457	1302	0.400204	1
1	1	16	98.2			0.950214	
2	1	11	73.2			1.925763	
3	1	19	89.5			2.920486	
4	2	7	84.1	1994		4.231136	
5	1	12	51.1			5.178124	
6	3	9	51.9	1284	1521	6.18861	
7	1	6	54.1			6.50209	
8	3	18	95	1175	1220	8.097556	
9	3	6	58.9	1360	1750	9.151418	
10	3	6	93.9	1613	1634	9.946626	
11	2	7	99.7	1669		11.04531	
12	2	5	81.7	1184		11.23155	

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	14	60.5	1664		1.088607	1
1	3	14	87.5	1218	1885	1.823916	
2	2	6	88.3	1753		3.454838	
3	2	18	75.5	1142		4.495898	
4	1	6	89			6.575781	
5	3	17	91.7	1734	1263	7.184436	
6	2	20	63.8	1952		9.250119	
7	2	9	55.2	1021		10.12659	
8	2	5	88.4	1043		11.40652	

Bin5 Statistics 3

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	10	81.5	1669		0.236226	1
1	2	7	76.4	1543		1.079518	
2	2	12	74	1759		1.88847	
3	3	8	80.6	1955	1663	2.186978	
4	2	12	92.6	1724		2.906416	

5	2	14	61.4	1036		3.866446
6	1	19	82			4.276993
7	1	11	59.4			4.871988
8	2	11	58.4	1008		5.393853
9	1	11	97			6.092749
10	2	8	79.9	1792		6.683553
11	1	5	90.7			7.880187
12	2	13	70.4	1673		8.481937
13	2	13	71.9	1963		9.16966
14	3	12	66.7	1010	1941	9.990595
15	2	8	86.9	1924		10.31812
16	2	6	99.6	1860		10.99779
17	1	16	67.3			11.87515

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	20	59.4	1049		1.041575	1
1	2	5	87.9	1150		2.630667	
2	1	12	64.4			2.836447	
3	2	11	94.8	1966		5.281298	
4	1	15	78.3			5.826193	
5	2	7	90	1568		7.943165	
6	2	10	78.6	1199		9.072415	
7	1	8	99.1			9.952082	
8	2	13	69.7	1101		11.3749	

Bin5 Statistics 5

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	18	99.9	1213	1881	0.19697	1
1	3	18	87.6	1473	1115	1.139877	
2	2	6	96.2	1251		1.975631	
3	2	19	78.8	1742		3.153194	
4	3	14	78.8	1521	1548	3.975441	
5	2	6	74.2	1689		4.444527	
6	1	18	72.3			5.398978	
7	2	9	75.8	1463		5.826703	
8	2	15	91.7	1071		6.713783	

9	2	13	60.3	1078		7.562591	
10	2	10	68.2	1928		8.314503	
11	2	8	73	1274		9.50416	
12	2	6	88.7	1379		10.21971	
13	2	11	60.4	1660		10.96096	
14	2	11	58	1610		11.59476	

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	18	92.1	1284	1639	0.678086	1
1	2	7	59.4	1524		1.499964	
2	2	13	98	1338		3.133783	
3	2	7	58.6	1651		3.536054	
4	1	9	82.2			5.417642	
5	3	10	87.4	1398	1833	5.505465	
6	2	6	51.6	1044		7.262007	
7	1	11	90.2			8.666961	
8	2	6	69	1388		9.451557	
9	2	5	62.7	1060		10.38685	
10	3	7	60.7	1747	1484	11.0824	

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	5	90.6	1462		0.234276	1
1	3	12	69.8	1034	1320	1.076678	
2	2	8	79.5	1413		1.609756	
3	3	12	65.3	1761	1625	2.294914	
4	3	13	54.1	1261	1082	2.960836	
5	2	5	88.2	1223		3.722588	
6	3	18	75.6	1492	1728	4.487546	
7	1	16	66.8			4.953313	
8	3	11	86.8	1868	1697	5.988513	
9	2	19	69.4	1441		6.767711	
10	2	10	68.7	1780		7.409328	
11	3	6	51	1771	1095	7.899294	
12	3	10	67.1	1462	1952	8.955298	

13	1	13	96			9.326566	
14	2	15	98	1160		10.55131	
15	3	11	76.9	1620	1295	11.04019	
16	2	11	91.8	1610		11.95068	

Bin5 Statistics 8

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	13	89.8	1269	1099	0.648691	1
1	3	14	60.8	1198	1179	1.744174	
2	2	18	58.3	1986		2.751492	
3	3	6	53.7	1849	1980	3.55117	
4	2	16	55.8	1305		4.222963	
5	2	9	53.4	1376		5.051123	
6	1	13	64.7			6.263835	
7	2	7	50.7	1164		6.643387	
8	1	10	84.4			8.163014	
9	1	6	97.9			8.718756	
10	2	19	92.9	1786		9.429507	
11	2	9	71.5	1672		10.52538	
12	3	17	98.6	1725	1650	11.50237	

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	18	78.5	1649	1300	0.323147	1
1	2	11	86.8	1776		0.712143	
2	2	6	59.5	1329		1.639165	
3	3	11	70.2	1359	1970	2.240874	
4	3	8	56	1030	1685	2.91264	
5	2	11	68.6	1450		3.722363	
6	3	8	95.6	1421	1506	4.658565	
7	3	18	90.6	1037	1519	5.369371	
8	2	5	52.3	1599		6.017962	
9	2	16	96.8	1565		6.458856	
10	3	12	72.4	1117	1875	7.076767	
11	3	16	53.2	1240	1472	7.982989	
12	1	19	94.1			8.905937	
13	1	17	87.4			9.680275	

14	1	12	91.6			10.30895	
15	2	5	70.3	1609		10.68349	
16	2	18	67.6	1882		11.9291	

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	11	83.9	1887		0.50823	1
1	2	5	95.8	1885		1.393188	
2	3	16	91.9	1948	1164	1.628441	
3	2	16	63.6	1824		2.672856	
4	1	13	95.2			3.729554	
5	2	14	92.3	1949		3.92492	
6	1	15	64.8			4.849166	
7	2	19	95.6	1894		5.430462	
8	3	7	72.8	1700	1768	6.544816	
9	2	7	56.8	1061		6.868937	
10	2	19	80.5	1031		8.18597	
11	1	20	84.6			8.540891	
12	2	5	84.3	1887		9.097005	
13	2	20	57.1	1304		10.49304	
14	2	5	61.9	1636		10.54173	
15	2	7	67.1	1140		11.51825	

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	17	96.1			0.456428	1
1	3	19	87.4	1181	1748	0.753028	
2	2	6	63.7	1312		1.688527	
3	2	17	68.2	1043		2.405633	
4	1	6	67.4			2.835582	
5	2	11	62.9	1852		3.626069	
6	1	7	71.9			3.801385	
7	2	10	55.4	1983		4.984694	
8	2	13	88	1033		5.097059	
9	2	14	76.8	1335		6.203118	
10	2	16	94.5	1741		6.896374	
11	1	13	71.3			7.362201	

12	3	13	80.4	1759	1503	7.689501	
13	3	6	67.9	1281	1722	8.426004	
14	2	16	54.1	1172		9.396219	
15	2	9	69.6	1356		9.877577	
16	1	7	78.4			10.45544	
17	1	5	62.8			10.75004	
18	2	6	70.3	1788		11.40976	

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	58.9	1911		0.269119	
1	2	14	79	1321		1.421179	
2	1	8	88.3			2.372392	
3	2	7	93.8	1850		2.731837	
4	3	17	86.2	1710	1783	3.441532	
5	3	12	70.8	1873	1832	4.529246	
6	3	6	62.9	1607	1870	5.436481	
7	2	6	85.7	1328		6.635391	
8	2	15	61.9	1283		7.602016	
9	1	12	67.3			8.544168	
10	2	14	79.5	1814		8.810814	
11	2	10	69.5	1440		9.977624	
12	2	19	97.9	1399		10.48931	
13	3	9	97.9	1276	1537	11.34277	

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	20	79.1			0.570874	
1	2	11	94.2	1696		1.290977	
2	1	19	86.7			2.890666	
3	1	15	91.3			3.680614	
4	3	10	63.4	1971	1143	5.313964	
5	3	8	54.3	1037	1228	6.898039	
6	3	9	92.7	1866	1778	7.630632	
7	3	17	82.2	1451	1167	9.341452	
8	3	12	55.2	1881	1650	10.59856	
9	3	8	67.6	1074	1899	11.85483	

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	16	76.1	1547		0.721065	1
1	3	18	90.6	1144	1759	1.081606	
2	1	5	60.5			2.234355	
3	3	18	94.8	1394	1086	2.630177	
4	3	15	69.6	1987	1122	3.273708	
5	3	11	56.7	1070	1672	4.504847	
6	3	12	95.6	1404	1951	4.892616	
7	2	10	71.7	1918		5.886202	
8	2	14	73.8	1258		6.691931	
9	2	14	93.8	1050		7.640341	
10	3	12	54.9	1601	1003	8.271833	
11	3	9	70.8	1396	1616	9.539137	
12	1	20	90.8			10.25065	
13	2	5	62.9	1370		10.45039	
14	1	6	90			11.57682	

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	14	57.2	1101		0.40851	1
1	2	7	89.7	1255		2.16839	
2	3	18	56.4	1222	1547	2.401953	
3	2	12	69.5	1112		4.416006	
4	3	19	93.4	1058	1764	5.084715	
5	2	14	59.4	1308		6.133535	
6	1	12	61.3			7.900562	
7	3	18	55.7	1595	1944	8.559837	
8	1	11	94.1			9.869408	
9	1	11	72			11.08857	

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	6	85.2			0.999221	1
1	2	11	94.1	1292		1.971586	

2	2	14	98.8	1112		3.134992	
3	3	18	64.6	1938	1633	4.228739	
4	2	19	71.5	1639		5.434288	
5	2	14	70.3	1929		6.752752	
6	2	18	58	1175		7.986662	
7	2	6	74.8	1261		8.66102	
8	2	8	53.7	1010		10.03621	
9	3	11	57.6	1421	1742	11.2062	

Bin5 Statistics 17

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	16	53.5	1199		0.540296	
1	2	9	51.7	1188		2.035552	
2	2	10	84.9	1614		3.468303	
3	3	10	56.6	1518	1285	4.282786	
4	2	6	69.8	1860		5.924708	
5	2	10	98.1	1799		7.573978	
6	2	10	92.6	1680		9.27366	
7	2	11	95	1511		10.25859	
8	2	20	73.8	1011		11.68472	1

Bin5 Statistics 18

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	18	95.4	1737		0.275986	1
1	1	14	75			0.869758	
2	1	15	78.7			2.075845	
3	2	14	52.4	1572		2.818487	
4	3	6	88.1	1722	1875	2.922544	
5	2	18	84.5	1371		3.53085	
6	3	14	68.1	1763	1034	4.753155	
7	2	15	90.5	1612		5.165096	
8	3	13	59.6	1934	1210	6.035504	
9	2	19	57.3	1036		6.461673	
10	2	16	86.7	1638		7.612471	
11	3	9	62.5	1178	1585	8.289292	
12	3	5	74.7	1021	1402	8.643323	
13	1	6	63.4			9.312392	
14	2	8	55.9	1398		10.07547	

15	2	10	65.6	1825		10.73694	
16	1	14	88.3			11.35579	

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	14	76.8			0.272531	1
1	2	14	74.4	1515		1.733679	
2	2	8	51.3	1117		2.437034	
3	3	14	99.9	1483	1411	4.341939	
4	2	7	62	1780		5.21221	
5	2	13	76	1525		5.523619	
6	3	15	67.4	1084	1174	6.835658	
7	2	19	58	1485		7.752496	
8	3	16	77.8	1582	1440	9.47138	
9	2	12	94.6	1365		10.80601	
10	2	19	63.3	1165		11.50012	

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	16	54.3	1766		0.587944	1
1	3	18	70.6	1758	1821	0.865748	
2	1	11	92.9			1.837877	
3	1	11	80.9			2.445292	
4	2	15	78.7	1130		3.168648	
5	2	7	54	1484		3.531934	
6	3	7	74.9	1731	1600	4.495576	
7	2	6	75.4	1932		5.081229	
8	2	14	62.1	1674		5.967452	
9	2	12	96.4	1799		6.553703	
10	3	17	89	1819	1394	6.859193	
11	1	6	85.5			7.399773	
12	1	18	64.4			8.000606	
13	2	13	56.2	1394		9.24749	
14	1	13	95.4			9.752203	
15	2	10	67.7	1103		10.14488	
16	2	9	62	1855		10.77767	

17	1	18	92.9			11.71653	
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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	7	60.7	1551	1725	0.582689	1
1	2	14	83.5	1111		1.226368	
2	2	15	67.5	1854		1.905134	
3	1	6	65.2			2.557014	
4	1	7	94.5			3.236207	
5	2	19	71	1607		3.924261	
6	3	18	54.9	1211	1460	4.545604	
7	2	11	81.2	1361		5.608178	
8	2	8	60.9	1005		5.852413	
9	3	18	85.1	1674	1238	6.615021	
10	2	8	69.3	1110		7.572118	
11	2	16	61.3	1695		8.217601	
12	2	7	62.4	1135		8.941314	
13	1	18	86			9.833602	
14	2	15	71.5	1736		10.00309	
15	2	14	83.5	1968		10.67231	
16	1	10	72.8			11.29549	

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	13	78.9	1713	1101	0.646742	1
1	2	17	94.7	1094		1.267283	
2	2	14	61.7	1143		2.348312	
3	1	9	73			3.350246	
4	3	10	92.3	1063	1961	3.842774	
5	3	9	69.6	1084	1340	4.838058	
6	2	15	94.2	1015		5.738613	
7	2	15	86.7	1044		7.105671	
8	2	15	61.3	1289		7.658339	
9	1	16	99			9.220746	
10	1	9	58.8			9.866285	
11	2	10	87.3	1703		11.00451	
12	3	12	60.7	1845	1888	11.57506	

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	5	80.7	1623	1791	0.337131	1
1	2	11	85	1350		1.394058	
2	2	16	82.2	1519		2.01698	
3	2	14	76.4	1256		2.536378	
4	1	16	63.4			3.326855	
5	1	9	60.5			4.266029	
6	2	19	90.1	1928		4.855793	
7	2	5	58.4	1809		6.205478	
8	2	11	93.7	1345		6.864798	
9	2	12	50.5	1553		7.878139	
10	1	15	82.1			8.092833	
11	2	10	65.5	1781		9.452917	
12	3	18	77.3	1394	1963	9.714582	
13	2	11	76.7	1427		10.89496	
14	2	12	53.9	1616		11.64256	

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	7	57.9	1607		0.298126	1
1	2	7	89.8	1308		1.702596	
2	3	14	79.4	1842	1951	1.740988	
3	1	11	72.6			2.623266	
4	2	11	72.3	1251		4.036507	
5	2	6	71.3	1085		4.635714	
6	1	10	78.7			5.178527	
7	2	5	61.6	1653		6.327651	
8	2	11	98.4	1337		7.114537	
9	3	8	63.6	1162	1627	8.128011	
10	2	7	51.8	1134		8.758304	
11	2	14	95.3	1140		10.19703	
12	2	12	89.1	1544		10.54544	
13	2	12	54.7	1746		11.80384	

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	14	69.4	1075	1287	1.115884	1
1	2	14	78.8	1306		2.3753	
2	2	13	64.9	1568		3.605907	
3	2	7	76.7	1637		5.088637	
4	2	18	61.4	1415		5.410055	
5	3	9	74.1	1337	1622	7.652672	
6	2	10	90.7	1412		8.939656	
7	2	12	78.4	1740		10.21862	
8	1	18	57.3			11.81069	

Bin5 Statistics 26

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	13	92			0.696164	1
1	1	18	68.8			2.600156	
2	2	18	79.9	1212		3.718136	
3	2	11	99	1741		5.065764	
4	2	7	91.8	1384		6.390045	
5	3	16	60.4	1315	1007	7.668975	
6	3	12	62.5	1012	1348	9.193458	
7	1	14	97.5			10.62671	
8	2	16	91.4	1987		11.32397	

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	82.1	1035		1.064308	1
1	3	16	99.6	1872	1324	2.350432	
2	2	5	83	1724		2.759987	
3	1	15	73.4			4.526126	
4	2	18	69.7	1703		5.79251	
5	1	19	53			6.085988	
6	2	6	94.5	1360		7.45029	
7	1	18	57.3			9.095975	
8	3	16	81.9	1947	1178	10.75396	
9	1	10	76.3			11.52883	

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	16	61	1260		0.349601	1
1	3	14	97.8	1673	1549	0.799387	
2	3	17	70.6	1151	1795	1.259624	
3	2	8	85.8	1700		2.137693	
4	2	10	66.8	1787		2.611063	
5	1	17	73.3			3.079573	
6	2	16	63.2	1675		4.087077	
7	3	8	50.9	1629	1939	4.501545	
8	3	9	76	1225	1713	5.012166	
9	2	13	50.5	1201		5.723763	
10	3	12	76.3	1776	1703	6.547968	
11	3	16	79.4	1605	1592	7.130169	
12	1	19	68.1			7.766654	
13	1	11	60.6			8.24312	
14	2	10	61	1019		8.835208	
15	1	12	69.7			9.40512	
16	1	17	81.9			9.824702	
17	2	18	81.3	1449		10.48471	
18	2	19	52.2	1707		11.0896	
19	3	12	73.5	1244	1756	11.67577	

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	7	50.4			0.697289	1
1	2	11	96.7	1525		1.35225	
2	2	18	99.8	1500		1.924347	
3	1	14	99.3			2.443559	
4	2	12	52.7	1077		3.277841	
5	1	15	77.7			4.130885	
6	2	14	86.9	1433		4.557558	
7	2	12	99.3	1491		5.092424	
8	2	10	96.8	1730		6.198085	
9	2	13	50.8	1741		6.798806	
10	2	19	67.9	1896		7.195592	
11	2	17	90.8	1895		8.029879	
12	2	13	52.3	1264		8.936507	

13	3	10	79.7	1076	1236	9.493511	
14	3	18	62.3	1611	1991	9.985843	
15	2	19	91	1597		10.96709	
16	1	7	60			11.93957	

Bin5 Statistics 30

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	17	89.1			0.10618	1
1	2	18	98.6	1890		1.380622	
2	3	13	59.3	1312	1916	1.74405	
3	1	5	99.1			2.897974	
4	1	19	77.9			3.690446	
5	2	10	65.5	1818		3.884442	
6	2	8	99.9	1697		4.775382	
7	1	12	68.3			5.394172	
8	1	9	79.7			6.240127	
9	2	19	92.7	1887		7.303517	
10	1	10	73.7			7.624697	
11	2	17	67.9	1993		8.473833	
12	3	20	93.1	1886	1612	9.722176	
13	3	11	99.3	1538	1517	10.16411	
14	1	13	84.9			11.05656	
15	2	10	82.6	1261		11.93413	

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	5609	9	1	333	1	5423.0, 5716.0, 5305.0, 5303.0, 5378.0, 5575.0, 5672.0, 5516.0, 5682.0, 5356.0, 5552.0, 5387.0, 5268.0, 5555.0, 5698.0, 5474.0, 5694.0, 5635.0, 5403.0, 5648.0, 5634.0, 5421.0, 5257.0, 5520.0, 5294.0, 5601.0, 5410.0, 5357.0, 5631.0, 5275.0, 5299.0, 5658.0, 5709.0, 5576.0, 5519.0, 5463.0, 5499.0, 5265.0, 5340.0, 5684.0, 5563.0, 5573.0, 5313.0, 5517.0, 5567.0, 5510.0, 5464.0, 5640.0, 5697.0, 5457.0, 5568.0, 5484.0, 5270.0, 5566.0, 5369.0, 5625.0, 5264.0, 5456.0, 5632.0, 5296.0, 5262.0, 5636.0, 5287.0, 5333.0, 5560.0, 5496.0, 5572.0, 5388.0, 5412.0, 5283.0, 5644.0, 5497.0, 5681.0, 5384.0, 5291.0, 5391.0, 5366.0, 5518.0, 5419.0, 5274.0, 5587.0, 5330.0, 5276.0, 5362.0, 5289.0, 5556.0, 5582.0, 5322.0, 5683.0, 5360.0, 5350.0, 5343.0, 5396.0, 5661.0, 5442.0, 5512.0, 5592.0, 5430.0, 5647.0, 5540.0 (number of hits: 2)
2	5590	9	1	333	1	5478.0, 5662.0, 5384.0, 5277.0, 5605.0, 5335.0, 5340.0, 5375.0, 5664.0, 5287.0, 5576.0, 5677.0, 5654.0, 5443.0, 5579.0, 5699.0, 5276.0, 5619.0, 5503.0, 5490.0, 5456.0, 5544.0, 5473.0, 5548.0, 5638.0, 5642.0, 5448.0, 5539.0, 5534.0, 5483.0, 5669.0, 5496.0, 5405.0, 5392.0, 5415.0, 5515.0, 5460.0, 5667.0, 5644.0, 5540.0, 5521.0, 5461.0, 5527.0, 5555.0, 5660.0, 5296.0, 5285.0, 5618.0, 5647.0, 5704.0, 5541.0, 5505.0, 5584.0, 5708.0, 5357.0, 5578.0, 5413.0, 5310.0, 5581.0, 5411.0, 5258.0, 5705.0, 5417.0, 5432.0, 5345.0, 5488.0, 5643.0, 5389.0, 5497.0, 5722.0, 5466.0, 5339.0, 5395.0, 5312.0, 5509.0, 5318.0, 5307.0, 5575.0, 5334.0, 5691.0, 5283.0, 5376.0, 5424.0, 5306.0, 5673.0, 5250.0, 5711.0, 5459.0, 5370.0, 5297.0, 5275.0, 5506.0, 5491.0, 5500.0, 5595.0, 5633.0, 5567.0, 5442.0, 5346.0, 5446.0 (number of hits: 2)
3	5591	9	1	333	1	5398.0, 5467.0, 5460.0, 5471.0, 5496.0, 5645.0, 5463.0, 5390.0, 5490.0, 5270.0, 5392.0, 5298.0, 5307.0, 5532.0, 5474.0, 5461.0, 5284.0, 5676.0, 5424.0, 5274.0, 5353.0, 5685.0, 5264.0, 5680.0, 5319.0, 5577.0, 5603.0, 5336.0, 5457.0, 5419.0, 5602.0, 5670.0, 5594.0, 5597.0, 5275.0, 5720.0, 5472.0, 5382.0, 5543.0, 5536.0, 5452.0, 5589.0, 5492.0, 5625.0, 5622.0, 5400.0, 5272.0, 5586.0, 5679.0, 5280.0, 5563.0, 5708.0, 5345.0, 5252.0, 5662.0, 5297.0, 5278.0, 5560.0, 5642.0, 5480.0, 5426.0, 5415.0, 5372.0, 5289.0, 5273.0, 5340.0, 5638.0, 5279.0, 5653.0, 5282.0, 5458.0, 5558.0, 5304.0, 5562.0, 5399.0, 5690.0, 5322.0, 5427.0, 5591.0, 5647.0, 5317.0, 5291.0, 5573.0, 5585.0, 5572.0, 5309.0, 5651.0, 5621.0, 5393.0, 5500.0, 5413.0, 5294.0, 5525.0, 5535.0, 5619.0, 5475.0, 5396.0, 5384.0, 5267.0, 5630.0 (number of hits: 5)
4	5592	9	1	333	1	5541.0, 5613.0, 5624.0, 5279.0, 5328.0, 5274.0, 5329.0, 5619.0, 5575.0, 5373.0, 5533.0, 5550.0, 5609.0, 5519.0, 5705.0, 5442.0, 5297.0, 5371.0, 5403.0, 5485.0, 5310.0, 5706.0, 5563.0, 5530.0, 5470.0, 5464.0, 5489.0, 5606.0, 5253.0, 5632.0, 5356.0, 5682.0, 5538.0, 5280.0, 5275.0, 5438.0, 5516.0, 5556.0, 5570.0, 5589.0, 5396.0, 5458.0, 5469.0, 5593.0, 5527.0, 5650.0, 5584.0, 5256.0, 5702.0, 5690.0, 5290.0, 5303.0, 5611.0, 5562.0, 5265.0, 5335.0,

						5703.0, 5524.0, 5325.0, 5479.0, 5394.0, 5398.0, 5503.0, 5412.0, 5462.0, 5696.0, 5338.0, 5450.0, 5596.0, 5402.0, 5254.0, 5687.0, 5400.0, 5567.0, 5252.0, 5454.0, 5514.0, 5587.0, 5518.0, 5424.0, 5649.0, 5675.0, 5615.0, 5395.0, 5342.0, 5586.0, 5337.0, 5436.0, 5258.0, 5555.0, 5289.0, 5364.0, 5362.0, 5293.0, 5457.0, 5379.0, 5667.0, 5512.0, 5411.0, 5579.0 (number of hits: 3)
5	5593	9	1	333	1	5340.0, 5586.0, 5499.0, 5319.0, 5604.0, 5558.0, 5292.0, 5471.0, 5709.0, 5674.0, 5446.0, 5362.0, 5702.0, 5571.0, 5504.0, 5470.0, 5490.0, 5426.0, 5330.0, 5683.0, 5342.0, 5582.0, 5553.0, 5373.0, 5351.0, 5580.0, 5265.0, 5461.0, 5457.0, 5366.0, 5574.0, 5261.0, 5384.0, 5652.0, 5635.0, 5360.0, 5442.0, 5605.0, 5639.0, 5314.0, 5507.0, 5710.0, 5543.0, 5307.0, 5440.0, 5255.0, 5502.0, 5519.0, 5489.0, 5279.0, 5421.0, 5458.0, 5585.0, 5685.0, 5596.0, 5432.0, 5600.0, 5464.0, 5547.0, 5556.0, 5358.0, 5408.0, 5655.0, 5691.0, 5274.0, 5287.0, 5536.0, 5306.0, 5312.0, 5393.0, 5601.0, 5595.0, 5376.0, 5663.0, 5416.0, 5448.0, 5316.0, 5699.0, 5567.0, 5356.0, 5353.0, 5548.0, 5290.0, 5283.0, 5481.0, 5669.0, 5715.0, 5401.0, 5469.0, 5495.0, 5321.0, 5645.0, 5295.0, 5565.0, 5273.0, 5325.0, 5534.0, 5593.0, 5522.0, 5355.0 (number of hits: 7)
6	5594	9	1	333	1	5646.0, 5312.0, 5676.0, 5400.0, 5608.0, 5656.0, 5549.0, 5363.0, 5621.0, 5277.0, 5674.0, 5286.0, 5279.0, 5714.0, 5541.0, 5532.0, 5519.0, 5562.0, 5261.0, 5442.0, 5339.0, 5504.0, 5558.0, 5289.0, 5379.0, 5606.0, 5535.0, 5632.0, 5467.0, 5324.0, 5693.0, 5524.0, 5695.0, 5376.0, 5492.0, 5432.0, 5298.0, 5459.0, 5414.0, 5341.0, 5671.0, 5383.0, 5287.0, 5499.0, 5667.0, 5711.0, 5365.0, 5496.0, 5431.0, 5296.0, 5677.0, 5307.0, 5684.0, 5587.0, 5682.0, 5488.0, 5424.0, 5250.0, 5299.0, 5639.0, 5403.0, 5323.0, 5615.0, 5666.0, 5483.0, 5338.0, 5281.0, 5575.0, 5438.0, 5637.0, 5344.0, 5503.0, 5474.0, 5257.0, 5490.0, 5509.0, 5527.0, 5266.0, 5381.0, 5470.0, 5265.0, 5342.0, 5661.0, 5542.0, 5368.0, 5572.0, 5262.0, 5625.0, 5680.0, 5351.0, 5487.0, 5664.0, 5702.0, 5565.0, 5534.0, 5652.0, 5411.0, 5497.0, 5321.0, 5366.0 (number of hits: 2)
7	5595	9	1	333	1	5675.0, 5387.0, 5508.0, 5588.0, 5670.0, 5506.0, 5290.0, 5342.0, 5559.0, 5531.0, 5548.0, 5640.0, 5672.0, 5308.0, 5450.0, 5557.0, 5511.0, 5667.0, 5443.0, 5446.0, 5483.0, 5712.0, 5561.0, 5661.0, 5394.0, 5397.0, 5628.0, 5292.0, 5626.0, 5578.0, 5467.0, 5572.0, 5513.0, 5552.0, 5268.0, 5543.0, 5497.0, 5468.0, 5665.0, 5687.0, 5349.0, 5419.0, 5388.0, 5698.0, 5679.0, 5390.0, 5527.0, 5566.0, 5609.0, 5277.0, 5570.0, 5632.0, 5647.0, 5358.0, 5252.0, 5585.0, 5565.0, 5584.0, 5500.0, 5705.0, 5649.0, 5656.0, 5332.0, 5599.0, 5323.0, 5560.0, 5541.0, 5301.0, 5251.0, 5472.0, 5305.0, 5306.0, 5603.0, 5601.0, 5275.0, 5284.0, 5321.0, 5384.0, 5668.0, 5258.0, 5719.0, 5319.0, 5442.0, 5401.0, 5260.0, 5312.0, 5536.0, 5492.0, 5503.0, 5635.0, 5620.0, 5684.0, 5597.0, 5399.0, 5438.0, 5348.0, 5391.0, 5315.0, 5514.0, 5432.0 (number of hits: 4)
8	5596	9	1	333	1	5696.0, 5637.0, 5347.0, 5580.0, 5537.0, 5673.0, 5654.0, 5378.0, 5522.0, 5617.0, 5443.0, 5302.0, 5623.0, 5663.0, 5369.0, 5387.0, 5265.0, 5267.0, 5311.0, 5538.0, 5532.0, 5716.0, 5293.0, 5668.0, 5410.0, 5462.0, 5441.0, 5472.0, 5454.0, 5596.0, 5362.0, 5345.0, 5412.0, 5330.0, 5650.0, 5422.0, 5608.0, 5260.0, 5485.0, 5664.0, 5291.0, 5627.0,

						5467.0, 5615.0, 5717.0, 5324.0, 5678.0, 5586.0, 5536.0, 5510.0, 5270.0, 5385.0, 5498.0, 5446.0, 5333.0, 5584.0, 5338.0, 5652.0, 5459.0, 5701.0, 5254.0, 5570.0, 5401.0, 5360.0, 5576.0, 5252.0, 5662.0, 5382.0, 5390.0, 5307.0, 5572.0, 5280.0, 5299.0, 5548.0, 5699.0, 5514.0, 5489.0, 5484.0, 5339.0, 5436.0, 5632.0, 5479.0, 5509.0, 5503.0, 5581.0, 5691.0, 5573.0, 5300.0, 5557.0, 5478.0, 5523.0, 5619.0, 5622.0, 5667.0, 5430.0, 5413.0, 5399.0, 5469.0, 5710.0, 5591.0 (number of hits: 3)
9	5597	9	1	333	1	5714.0, 5284.0, 5592.0, 5316.0, 5339.0, 5283.0, 5251.0, 5602.0, 5580.0, 5261.0, 5552.0, 5636.0, 5438.0, 5607.0, 5635.0, 5370.0, 5393.0, 5696.0, 5581.0, 5450.0, 5318.0, 5693.0, 5348.0, 5383.0, 5668.0, 5554.0, 5703.0, 5629.0, 5470.0, 5266.0, 5628.0, 5448.0, 5387.0, 5439.0, 5658.0, 5698.0, 5685.0, 5669.0, 5721.0, 5711.0, 5262.0, 5710.0, 5351.0, 5436.0, 5342.0, 5280.0, 5651.0, 5718.0, 5340.0, 5380.0, 5459.0, 5308.0, 5313.0, 5421.0, 5489.0, 5268.0, 5550.0, 5652.0, 5567.0, 5281.0, 5367.0, 5645.0, 5327.0, 5309.0, 5608.0, 5488.0, 5675.0, 5688.0, 5579.0, 5264.0, 5300.0, 5520.0, 5654.0, 5289.0, 5388.0, 5490.0, 5632.0, 5532.0, 5319.0, 5556.0, 5431.0, 5461.0, 5624.0, 5362.0, 5330.0, 5334.0, 5410.0, 5389.0, 5442.0, 5687.0, 5285.0, 5613.0, 5382.0, 5365.0, 5381.0, 5402.0, 5494.0, 5531.0, 5269.0, 5426.0 (number of hits: 4)
10	5598	9	1	333	1	5699.0, 5559.0, 5595.0, 5378.0, 5567.0, 5323.0, 5404.0, 5265.0, 5677.0, 5512.0, 5440.0, 5387.0, 5689.0, 5447.0, 5669.0, 5633.0, 5459.0, 5691.0, 5524.0, 5523.0, 5624.0, 5530.0, 5306.0, 5258.0, 5700.0, 5482.0, 5428.0, 5339.0, 5610.0, 5458.0, 5511.0, 5267.0, 5316.0, 5714.0, 5285.0, 5603.0, 5450.0, 5433.0, 5680.0, 5634.0, 5597.0, 5509.0, 5674.0, 5534.0, 5392.0, 5261.0, 5423.0, 5397.0, 5701.0, 5399.0, 5657.0, 5589.0, 5686.0, 5711.0, 5409.0, 5533.0, 5649.0, 5510.0, 5605.0, 5414.0, 5370.0, 5679.0, 5590.0, 5314.0, 5539.0, 5515.0, 5328.0, 5528.0, 5377.0, 5367.0, 5425.0, 5485.0, 5304.0, 5579.0, 5599.0, 5553.0, 5583.0, 5311.0, 5365.0, 5349.0, 5298.0, 5670.0, 5406.0, 5486.0, 5565.0, 5417.0, 5362.0, 5336.0, 5724.0, 5540.0, 5355.0, 5570.0, 5430.0, 5436.0, 5526.0, 5506.0, 5613.0, 5490.0, 5522.0, 5403.0 (number of hits: 6)
11	5599	9	1	333	1	5317.0, 5465.0, 5612.0, 5592.0, 5579.0, 5484.0, 5425.0, 5626.0, 5274.0, 5714.0, 5623.0, 5722.0, 5658.0, 5586.0, 5693.0, 5617.0, 5518.0, 5575.0, 5571.0, 5453.0, 5440.0, 5312.0, 5308.0, 5495.0, 5661.0, 5253.0, 5433.0, 5493.0, 5505.0, 5516.0, 5668.0, 5514.0, 5355.0, 5526.0, 5577.0, 5523.0, 5543.0, 5319.0, 5504.0, 5667.0, 5269.0, 5400.0, 5251.0, 5677.0, 5341.0, 5257.0, 5396.0, 5476.0, 5480.0, 5621.0, 5264.0, 5325.0, 5652.0, 5438.0, 5361.0, 5653.0, 5338.0, 5387.0, 5377.0, 5385.0, 5582.0, 5360.0, 5509.0, 5544.0, 5549.0, 5326.0, 5603.0, 5554.0, 5521.0, 5456.0, 5418.0, 5368.0, 5403.0, 5517.0, 5363.0, 5285.0, 5336.0, 5322.0, 5311.0, 5426.0, 5633.0, 5279.0, 5665.0, 5625.0, 5383.0, 5316.0, 5501.0, 5481.0, 5553.0, 5262.0, 5588.0, 5371.0, 5293.0, 5699.0, 5328.0, 5655.0, 5401.0, 5604.0, 5500.0, 5644.0 (number of hits: 3)
12	5600	9	1	333	1	5650.0, 5349.0, 5572.0, 5645.0, 5460.0, 5468.0, 5331.0, 5668.0, 5449.0, 5454.0, 5368.0, 5690.0, 5332.0, 5353.0, 5662.0, 5357.0, 5309.0, 5253.0, 5623.0, 5501.0, 5466.0, 5479.0, 5342.0, 5509.0, 5682.0, 5372.0, 5709.0, 5487.0,

						5674.0, 5530.0, 5459.0, 5259.0, 5702.0, 5380.0, 5698.0, 5438.0, 5300.0, 5450.0, 5480.0, 5560.0, 5630.0, 5564.0, 5478.0, 5541.0, 5533.0, 5315.0, 5489.0, 5415.0, 5633.0, 5326.0, 5481.0, 5670.0, 5628.0, 5498.0, 5559.0, 5461.0, 5251.0, 5305.0, 5532.0, 5324.0, 5405.0, 5609.0, 5606.0, 5658.0, 5398.0, 5430.0, 5621.0, 5639.0, 5555.0, 5589.0, 5422.0, 5364.0, 5455.0, 5673.0, 5601.0, 5412.0, 5491.0, 5317.0, 5629.0, 5444.0, 5661.0, 5426.0, 5348.0, 5452.0, 5615.0, 5336.0, 5669.0, 5507.0, 5463.0, 5581.0, 5539.0, 5440.0, 5584.0, 5437.0, 5446.0, 5546.0, 5626.0, 5531.0, 5337.0, 5381.0 (number of hits: 2)
13	5601	9	1	333	1	5475.0, 5263.0, 5712.0, 5675.0, 5422.0, 5499.0, 5280.0, 5662.0, 5678.0, 5588.0, 5703.0, 5281.0, 5616.0, 5349.0, 5672.0, 5431.0, 5466.0, 5483.0, 5274.0, 5265.0, 5347.0, 5370.0, 5484.0, 5595.0, 5329.0, 5533.0, 5296.0, 5525.0, 5524.0, 5254.0, 5470.0, 5402.0, 5426.0, 5579.0, 5697.0, 5341.0, 5450.0, 5463.0, 5457.0, 5717.0, 5357.0, 5691.0, 5320.0, 5315.0, 5545.0, 5388.0, 5379.0, 5494.0, 5469.0, 5621.0, 5421.0, 5393.0, 5448.0, 5473.0, 5500.0, 5361.0, 5398.0, 5559.0, 5583.0, 5418.0, 5516.0, 5645.0, 5592.0, 5335.0, 5649.0, 5667.0, 5312.0, 5673.0, 5528.0, 5350.0, 5288.0, 5674.0, 5336.0, 5611.0, 5391.0, 5317.0, 5481.0, 5532.0, 5276.0, 5259.0, 5396.0, 5486.0, 5363.0, 5328.0, 5452.0, 5599.0, 5629.0, 5536.0, 5699.0, 5610.0, 5355.0, 5509.0, 5485.0, 5299.0, 5373.0, 5256.0, 5435.0, 5687.0, 5384.0, 5338.0 (number of hits: 3)
14	5602	9	1	333	1	5382.0, 5267.0, 5597.0, 5388.0, 5494.0, 5691.0, 5470.0, 5497.0, 5271.0, 5655.0, 5474.0, 5635.0, 5321.0, 5292.0, 5360.0, 5533.0, 5307.0, 5715.0, 5358.0, 5452.0, 5289.0, 5634.0, 5350.0, 5683.0, 5351.0, 5622.0, 5660.0, 5362.0, 5491.0, 5709.0, 5417.0, 5694.0, 5310.0, 5475.0, 5551.0, 5684.0, 5372.0, 5259.0, 5415.0, 5661.0, 5437.0, 5520.0, 5251.0, 5375.0, 5523.0, 5584.0, 5641.0, 5293.0, 5428.0, 5473.0, 5254.0, 5718.0, 5343.0, 5628.0, 5347.0, 5461.0, 5355.0, 5554.0, 5693.0, 5414.0, 5379.0, 5604.0, 5656.0, 5357.0, 5297.0, 5398.0, 5508.0, 5664.0, 5483.0, 5665.0, 5493.0, 5673.0, 5688.0, 5418.0, 5472.0, 5424.0, 5354.0, 5652.0, 5545.0, 5486.0, 5607.0, 5364.0, 5469.0, 5394.0, 5376.0, 5567.0, 5462.0, 5456.0, 5686.0, 5290.0, 5572.0, 5416.0, 5710.0, 5323.0, 5577.0, 5692.0, 5352.0, 5540.0, 5595.0, 5317.0 (number of hits: 4)
15	5603	9	1	333	1	5668.0, 5253.0, 5632.0, 5340.0, 5321.0, 5709.0, 5701.0, 5508.0, 5719.0, 5575.0, 5517.0, 5473.0, 5628.0, 5673.0, 5677.0, 5655.0, 5386.0, 5569.0, 5546.0, 5714.0, 5269.0, 5436.0, 5669.0, 5316.0, 5297.0, 5525.0, 5721.0, 5398.0, 5426.0, 5466.0, 5399.0, 5545.0, 5359.0, 5556.0, 5312.0, 5505.0, 5302.0, 5584.0, 5629.0, 5311.0, 5609.0, 5654.0, 5421.0, 5449.0, 5553.0, 5691.0, 5476.0, 5342.0, 5472.0, 5652.0, 5442.0, 5257.0, 5558.0, 5640.0, 5583.0, 5305.0, 5459.0, 5531.0, 5515.0, 5458.0, 5382.0, 5368.0, 5559.0, 5415.0, 5594.0, 5410.0, 5266.0, 5587.0, 5373.0, 5564.0, 5351.0, 5440.0, 5474.0, 5574.0, 5544.0, 5685.0, 5648.0, 5598.0, 5702.0, 5676.0, 5582.0, 5443.0, 5562.0, 5631.0, 5395.0, 5450.0, 5566.0, 5286.0, 5522.0, 5618.0, 5289.0, 5679.0, 5276.0, 5366.0, 5306.0, 5251.0, 5528.0, 5331.0, 5308.0, 5620.0 (number of hits: 2)
16	5604	9	1	333	1	5522.0, 5567.0, 5487.0, 5420.0, 5404.0, 5721.0, 5485.0, 5336.0, 5371.0, 5433.0, 5399.0, 5698.0, 5609.0, 5540.0,

						5278.0, 5510.0, 5663.0, 5599.0, 5606.0, 5267.0, 5676.0, 5582.0, 5526.0, 5310.0, 5585.0, 5519.0, 5328.0, 5562.0, 5604.0, 5650.0, 5697.0, 5560.0, 5263.0, 5288.0, 5364.0, 5636.0, 5654.0, 5341.0, 5704.0, 5714.0, 5639.0, 5273.0, 5707.0, 5407.0, 5367.0, 5292.0, 5571.0, 5250.0, 5337.0, 5574.0, 5283.0, 5466.0, 5544.0, 5572.0, 5383.0, 5291.0, 5348.0, 5333.0, 5520.0, 5326.0, 5532.0, 5356.0, 5474.0, 5415.0, 5612.0, 5345.0, 5389.0, 5680.0, 5570.0, 5462.0, 5376.0, 5517.0, 5563.0, 5359.0, 5508.0, 5616.0, 5323.0, 5628.0, 5467.0, 5424.0, 5643.0, 5629.0, 5316.0, 5456.0, 5644.0, 5458.0, 5261.0, 5554.0, 5434.0, 5530.0, 5259.0, 5511.0, 5573.0, 5411.0, 5490.0, 5689.0, 5354.0, 5546.0, 5678.0, 5580.0 (number of hits: 3)
17	5606	9	1	333	1	5427.0, 5319.0, 5442.0, 5372.0, 5604.0, 5575.0, 5439.0, 5607.0, 5674.0, 5628.0, 5504.0, 5326.0, 5515.0, 5273.0, 5378.0, 5560.0, 5538.0, 5265.0, 5592.0, 5718.0, 5594.0, 5626.0, 5554.0, 5344.0, 5695.0, 5379.0, 5303.0, 5280.0, 5267.0, 5358.0, 5570.0, 5376.0, 5391.0, 5356.0, 5573.0, 5487.0, 5595.0, 5413.0, 5270.0, 5251.0, 5425.0, 5518.0, 5569.0, 5313.0, 5337.0, 5690.0, 5315.0, 5461.0, 5596.0, 5686.0, 5300.0, 5373.0, 5475.0, 5706.0, 5264.0, 5559.0, 5289.0, 5462.0, 5620.0, 5546.0, 5666.0, 5502.0, 5641.0, 5285.0, 5566.0, 5562.0, 5709.0, 5276.0, 5587.0, 5311.0, 5612.0, 5488.0, 5611.0, 5340.0, 5698.0, 5278.0, 5458.0, 5580.0, 5656.0, 5665.0, 5295.0, 5317.0, 5381.0, 5506.0, 5435.0, 5582.0, 5708.0, 5485.0, 5440.0, 5302.0, 5638.0, 5393.0, 5405.0, 5408.0, 5494.0, 5361.0, 5701.0, 5697.0, 5702.0, 5696.0 (number of hits: 6)
18	5606	9	1	333	1	5484.0, 5416.0, 5366.0, 5708.0, 5719.0, 5540.0, 5401.0, 5546.0, 5561.0, 5337.0, 5529.0, 5674.0, 5704.0, 5404.0, 5591.0, 5556.0, 5325.0, 5430.0, 5525.0, 5559.0, 5647.0, 5543.0, 5680.0, 5530.0, 5360.0, 5316.0, 5570.0, 5418.0, 5442.0, 5324.0, 5600.0, 5639.0, 5453.0, 5485.0, 5349.0, 5466.0, 5479.0, 5521.0, 5617.0, 5371.0, 5376.0, 5270.0, 5690.0, 5676.0, 5438.0, 5294.0, 5632.0, 5400.0, 5565.0, 5303.0, 5668.0, 5440.0, 5422.0, 5724.0, 5468.0, 5351.0, 5267.0, 5434.0, 5319.0, 5287.0, 5456.0, 5675.0, 5381.0, 5667.0, 5526.0, 5465.0, 5480.0, 5310.0, 5380.0, 5327.0, 5361.0, 5417.0, 5295.0, 5636.0, 5552.0, 5597.0, 5613.0, 5513.0, 5394.0, 5346.0, 5336.0, 5481.0, 5596.0, 5392.0, 5320.0, 5369.0, 5432.0, 5486.0, 5491.0, 5489.0, 5519.0, 5393.0, 5423.0, 5629.0, 5429.0, 5554.0, 5616.0, 5696.0, 5531.0, 5566.0 (number of hits: 4)
19	5607	9	1	333	1	5705.0, 5557.0, 5309.0, 5685.0, 5682.0, 5471.0, 5261.0, 5706.0, 5470.0, 5662.0, 5343.0, 5555.0, 5319.0, 5622.0, 5559.0, 5393.0, 5657.0, 5547.0, 5406.0, 5368.0, 5437.0, 5533.0, 5623.0, 5704.0, 5486.0, 5401.0, 5642.0, 5675.0, 5292.0, 5626.0, 5620.0, 5512.0, 5583.0, 5267.0, 5357.0, 5408.0, 5673.0, 5489.0, 5409.0, 5566.0, 5618.0, 5585.0, 5436.0, 5468.0, 5274.0, 5429.0, 5345.0, 5384.0, 5722.0, 5651.0, 5650.0, 5645.0, 5371.0, 5395.0, 5578.0, 5556.0, 5362.0, 5301.0, 5710.0, 5295.0, 5616.0, 5405.0, 5433.0, 5355.0, 5502.0, 5628.0, 5612.0, 5608.0, 5481.0, 5420.0, 5475.0, 5422.0, 5331.0, 5447.0, 5487.0, 5316.0, 5260.0, 5297.0, 5476.0, 5415.0, 5399.0, 5665.0, 5349.0, 5448.0, 5323.0, 5573.0, 5378.0, 5365.0, 5454.0, 5520.0, 5648.0, 5564.0, 5407.0, 5691.0, 5387.0, 5506.0, 5300.0, 5337.0, 5712.0, 5576.0 (number of hits: 1)

20	5608	9	1	333	1	5375.0, 5323.0, 5402.0, 5606.0, 5587.0, 5256.0, 5333.0, 5295.0, 5351.0, 5696.0, 5598.0, 5363.0, 5586.0, 5251.0, 5315.0, 5377.0, 5534.0, 5319.0, 5543.0, 5473.0, 5374.0, 5679.0, 5636.0, 5640.0, 5521.0, 5414.0, 5510.0, 5417.0, 5320.0, 5619.0, 5350.0, 5612.0, 5370.0, 5687.0, 5354.0, 5607.0, 5690.0, 5426.0, 5621.0, 5267.0, 5590.0, 5317.0, 5449.0, 5516.0, 5430.0, 5551.0, 5506.0, 5397.0, 5608.0, 5465.0, 5436.0, 5665.0, 5599.0, 5300.0, 5388.0, 5329.0, 5546.0, 5288.0, 5495.0, 5603.0, 5669.0, 5346.0, 5338.0, 5278.0, 5614.0, 5305.0, 5284.0, 5522.0, 5362.0, 5625.0, 5277.0, 5481.0, 5631.0, 5557.0, 5261.0, 5507.0, 5359.0, 5497.0, 5613.0, 5483.0, 5505.0, 5429.0, 5596.0, 5626.0, 5528.0, 5264.0, 5366.0, 5713.0, 5549.0, 5322.0, 5582.0, 5709.0, 5466.0, 5298.0, 5623.0, 5484.0, 5376.0, 5389.0, 5306.0, 5499.0 (number of hits: 8)
21	5609	9	1	333	1	5667.0, 5715.0, 5268.0, 5421.0, 5453.0, 5632.0, 5420.0, 5425.0, 5353.0, 5672.0, 5378.0, 5379.0, 5615.0, 5386.0, 5369.0, 5591.0, 5451.0, 5547.0, 5432.0, 5635.0, 5414.0, 5377.0, 5543.0, 5310.0, 5334.0, 5646.0, 5442.0, 5656.0, 5527.0, 5458.0, 5475.0, 5261.0, 5449.0, 5415.0, 5713.0, 5255.0, 5256.0, 5324.0, 5276.0, 5610.0, 5457.0, 5676.0, 5338.0, 5682.0, 5250.0, 5693.0, 5341.0, 5689.0, 5343.0, 5488.0, 5636.0, 5631.0, 5605.0, 5317.0, 5703.0, 5321.0, 5275.0, 5381.0, 5330.0, 5674.0, 5647.0, 5531.0, 5532.0, 5677.0, 5583.0, 5644.0, 5358.0, 5289.0, 5564.0, 5691.0, 5648.0, 5429.0, 5627.0, 5339.0, 5257.0, 5671.0, 5596.0, 5254.0, 5385.0, 5374.0, 5521.0, 5590.0, 5623.0, 5592.0, 5279.0, 5549.0, 5548.0, 5645.0, 5487.0, 5483.0, 5683.0, 5582.0, 5480.0, 5403.0, 5718.0, 5258.0, 5484.0, 5584.0, 5699.0, 5494.0 (number of hits: 5)
22	5608	9	1	333	1	5596.0, 5575.0, 5613.0, 5547.0, 5299.0, 5321.0, 5293.0, 5456.0, 5534.0, 5494.0, 5568.0, 5516.0, 5271.0, 5548.0, 5387.0, 5617.0, 5413.0, 5657.0, 5604.0, 5353.0, 5368.0, 5450.0, 5655.0, 5659.0, 5500.0, 5649.0, 5721.0, 5544.0, 5610.0, 5290.0, 5462.0, 5574.0, 5701.0, 5306.0, 5546.0, 5374.0, 5457.0, 5284.0, 5272.0, 5496.0, 5357.0, 5624.0, 5320.0, 5373.0, 5418.0, 5598.0, 5582.0, 5402.0, 5536.0, 5475.0, 5556.0, 5597.0, 5263.0, 5381.0, 5699.0, 5720.0, 5358.0, 5344.0, 5370.0, 5611.0, 5551.0, 5449.0, 5324.0, 5525.0, 5465.0, 5384.0, 5250.0, 5570.0, 5586.0, 5416.0, 5468.0, 5359.0, 5404.0, 5593.0, 5467.0, 5322.0, 5662.0, 5336.0, 5599.0, 5479.0, 5650.0, 5380.0, 5406.0, 5495.0, 5366.0, 5411.0, 5591.0, 5538.0, 5298.0, 5489.0, 5383.0, 5395.0, 5484.0, 5346.0, 5488.0, 5517.0, 5378.0, 5684.0, 5639.0, 5422.0 (number of hits: 7)
23	5607	9	1	333	1	5723.0, 5307.0, 5570.0, 5339.0, 5543.0, 5411.0, 5344.0, 5652.0, 5502.0, 5385.0, 5324.0, 5709.0, 5496.0, 5314.0, 5408.0, 5369.0, 5413.0, 5682.0, 5409.0, 5477.0, 5619.0, 5302.0, 5551.0, 5440.0, 5448.0, 5621.0, 5650.0, 5673.0, 5658.0, 5367.0, 5398.0, 5680.0, 5512.0, 5294.0, 5476.0, 5392.0, 5528.0, 5721.0, 5262.0, 5266.0, 5587.0, 5322.0, 5594.0, 5449.0, 5259.0, 5430.0, 5544.0, 5526.0, 5431.0, 5610.0, 5422.0, 5438.0, 5554.0, 5497.0, 5473.0, 5395.0, 5374.0, 5636.0, 5706.0, 5677.0, 5549.0, 5328.0, 5585.0, 5515.0, 5684.0, 5345.0, 5358.0, 5653.0, 5655.0, 5271.0, 5696.0, 5603.0, 5503.0, 5378.0, 5694.0, 5447.0, 5516.0, 5452.0, 5702.0, 5536.0, 5631.0, 5605.0, 5590.0, 5508.0, 5531.0, 5280.0, 5407.0, 5453.0, 5474.0, 5335.0, 5667.0,

						5361.0, 5390.0, 5556.0, 5257.0, 5494.0, 5270.0, 5420.0, 5492.0, 5519.0 (number of hits: 4)
24	5606	9	1	333	1	5612.0, 5634.0, 5570.0, 5365.0, 5522.0, 5525.0, 5694.0, 5520.0, 5551.0, 5553.0, 5329.0, 5457.0, 5628.0, 5319.0, 5361.0, 5567.0, 5463.0, 5718.0, 5498.0, 5391.0, 5508.0, 5559.0, 5641.0, 5602.0, 5333.0, 5478.0, 5603.0, 5489.0, 5633.0, 5697.0, 5659.0, 5446.0, 5367.0, 5683.0, 5514.0, 5277.0, 5581.0, 5687.0, 5298.0, 5384.0, 5421.0, 5291.0, 5405.0, 5658.0, 5398.0, 5280.0, 5507.0, 5259.0, 5564.0, 5273.0, 5412.0, 5281.0, 5271.0, 5541.0, 5468.0, 5533.0, 5700.0, 5381.0, 5288.0, 5577.0, 5642.0, 5382.0, 5714.0, 5390.0, 5309.0, 5345.0, 5521.0, 5402.0, 5356.0, 5656.0, 5373.0, 5695.0, 5677.0, 5289.0, 5579.0, 5491.0, 5467.0, 5601.0, 5690.0, 5708.0, 5323.0, 5607.0, 5517.0, 5689.0, 5429.0, 5461.0, 5372.0, 5318.0, 5269.0, 5663.0, 5440.0, 5320.0, 5600.0, 5516.0, 5589.0, 5276.0, 5486.0, 5709.0, 5502.0, 5651.0 (number of hits: 5)
25	5605	9	1	333	1	5687.0, 5417.0, 5528.0, 5425.0, 5715.0, 5514.0, 5579.0, 5548.0, 5634.0, 5345.0, 5386.0, 5411.0, 5438.0, 5507.0, 5437.0, 5378.0, 5504.0, 5598.0, 5546.0, 5686.0, 5693.0, 5460.0, 5348.0, 5402.0, 5565.0, 5557.0, 5604.0, 5561.0, 5702.0, 5295.0, 5494.0, 5642.0, 5482.0, 5631.0, 5590.0, 5344.0, 5695.0, 5625.0, 5650.0, 5644.0, 5427.0, 5421.0, 5553.0, 5683.0, 5469.0, 5461.0, 5471.0, 5608.0, 5361.0, 5432.0, 5293.0, 5414.0, 5526.0, 5371.0, 5332.0, 5572.0, 5593.0, 5518.0, 5286.0, 5454.0, 5443.0, 5559.0, 5330.0, 5487.0, 5619.0, 5254.0, 5294.0, 5671.0, 5587.0, 5505.0, 5640.0, 5430.0, 5656.0, 5669.0, 5601.0, 5596.0, 5616.0, 5498.0, 5426.0, 5577.0, 5668.0, 5251.0, 5343.0, 5515.0, 5620.0, 5609.0, 5535.0, 5674.0, 5607.0, 5611.0, 5552.0, 5324.0, 5367.0, 5419.0, 5724.0, 5253.0, 5302.0, 5574.0, 5260.0, 5591.0 (number of hits: 9)
26	5604	9	1	333	1	5437.0, 5601.0, 5323.0, 5679.0, 5448.0, 5306.0, 5672.0, 5487.0, 5286.0, 5443.0, 5664.0, 5710.0, 5719.0, 5549.0, 5648.0, 5555.0, 5659.0, 5363.0, 5688.0, 5608.0, 5369.0, 5540.0, 5541.0, 5554.0, 5261.0, 5424.0, 5673.0, 5503.0, 5439.0, 5308.0, 5594.0, 5408.0, 5564.0, 5375.0, 5258.0, 5348.0, 5467.0, 5676.0, 5629.0, 5542.0, 5624.0, 5279.0, 5577.0, 5317.0, 5526.0, 5398.0, 5381.0, 5661.0, 5440.0, 5649.0, 5296.0, 5359.0, 5262.0, 5517.0, 5582.0, 5294.0, 5562.0, 5307.0, 5596.0, 5640.0, 5396.0, 5337.0, 5252.0, 5457.0, 5537.0, 5544.0, 5411.0, 5298.0, 5620.0, 5712.0, 5682.0, 5304.0, 5605.0, 5254.0, 5372.0, 5356.0, 5534.0, 5538.0, 5444.0, 5678.0, 5389.0, 5347.0, 5587.0, 5703.0, 5561.0, 5528.0, 5338.0, 5473.0, 5477.0, 5345.0, 5352.0, 5513.0, 5378.0, 5330.0, 5438.0, 5623.0, 5256.0, 5322.0, 5724.0, 5706.0 (number of hits: 5)
27	5602	9	1	333	1	5526.0, 5630.0, 5432.0, 5355.0, 5278.0, 5402.0, 5586.0, 5362.0, 5315.0, 5417.0, 5576.0, 5438.0, 5339.0, 5364.0, 5564.0, 5609.0, 5346.0, 5483.0, 5260.0, 5411.0, 5706.0, 5534.0, 5570.0, 5574.0, 5458.0, 5319.0, 5625.0, 5641.0, 5293.0, 5401.0, 5264.0, 5584.0, 5320.0, 5276.0, 5508.0, 5282.0, 5497.0, 5422.0, 5462.0, 5573.0, 5615.0, 5287.0, 5512.0, 5672.0, 5659.0, 5329.0, 5567.0, 5290.0, 5565.0, 5357.0, 5637.0, 5582.0, 5473.0, 5667.0, 5314.0, 5717.0, 5340.0, 5331.0, 5517.0, 5257.0, 5528.0, 5580.0, 5551.0, 5292.0, 5330.0, 5679.0, 5650.0, 5668.0, 5283.0, 5408.0, 5406.0, 5645.0, 5661.0, 5363.0, 5675.0, 5455.0, 5643.0,

						5492.0, 5325.0, 5640.0, 5380.0, 5254.0, 5294.0, 5412.0, 5634.0, 5546.0, 5415.0, 5681.0, 5663.0, 5275.0, 5562.0, 5351.0, 5317.0, 5664.0, 5397.0, 5683.0, 5308.0, 5281.0, 5313.0, 5602.0 (number of hits: 1)
28	5602	9	1	333	1	5352.0, 5324.0, 5487.0, 5715.0, 5527.0, 5662.0, 5340.0, 5269.0, 5445.0, 5668.0, 5339.0, 5430.0, 5682.0, 5556.0, 5700.0, 5350.0, 5589.0, 5712.0, 5694.0, 5490.0, 5277.0, 5659.0, 5326.0, 5337.0, 5536.0, 5424.0, 5584.0, 5501.0, 5288.0, 5702.0, 5342.0, 5380.0, 5296.0, 5648.0, 5356.0, 5644.0, 5366.0, 5542.0, 5347.0, 5385.0, 5375.0, 5426.0, 5639.0, 5295.0, 5402.0, 5713.0, 5465.0, 5364.0, 5513.0, 5448.0, 5562.0, 5330.0, 5568.0, 5535.0, 5455.0, 5316.0, 5687.0, 5298.0, 5311.0, 5674.0, 5566.0, 5612.0, 5423.0, 5495.0, 5517.0, 5396.0, 5623.0, 5427.0, 5441.0, 5692.0, 5334.0, 5374.0, 5580.0, 5281.0, 5585.0, 5338.0, 5529.0, 5361.0, 5354.0, 5613.0, 5304.0, 5264.0, 5325.0, 5256.0, 5321.0, 5274.0, 5416.0, 5335.0, 5268.0, 5638.0, 5559.0, 5315.0, 5263.0, 5588.0, 5617.0, 5670.0, 5261.0, 5319.0, 5681.0, 5602.0 (number of hits: 1)
29	5601	9	1	333	1	5314.0, 5697.0, 5631.0, 5596.0, 5658.0, 5255.0, 5525.0, 5705.0, 5250.0, 5702.0, 5613.0, 5678.0, 5529.0, 5655.0, 5615.0, 5303.0, 5271.0, 5717.0, 5319.0, 5276.0, 5261.0, 5253.0, 5560.0, 5324.0, 5502.0, 5553.0, 5479.0, 5533.0, 5385.0, 5679.0, 5497.0, 5494.0, 5417.0, 5556.0, 5720.0, 5288.0, 5364.0, 5422.0, 5393.0, 5577.0, 5715.0, 5541.0, 5381.0, 5534.0, 5609.0, 5275.0, 5711.0, 5550.0, 5463.0, 5346.0, 5373.0, 5575.0, 5695.0, 5491.0, 5583.0, 5623.0, 5464.0, 5604.0, 5709.0, 5652.0, 5330.0, 5424.0, 5278.0, 5299.0, 5482.0, 5387.0, 5296.0, 5402.0, 5595.0, 5481.0, 5277.0, 5372.0, 5605.0, 5643.0, 5413.0, 5718.0, 5378.0, 5542.0, 5545.0, 5390.0, 5660.0, 5358.0, 5700.0, 5343.0, 5523.0, 5686.0, 5368.0, 5379.0, 5471.0, 5447.0, 5589.0, 5662.0, 5433.0, 5645.0, 5344.0, 5540.0, 5317.0, 5687.0, 5520.0, 5618.0 (number of hits: 4)
30	5600	9	1	333	1	5403.0, 5524.0, 5534.0, 5562.0, 5677.0, 5335.0, 5343.0, 5354.0, 5703.0, 5412.0, 5401.0, 5450.0, 5444.0, 5697.0, 5649.0, 5369.0, 5513.0, 5707.0, 5548.0, 5480.0, 5383.0, 5558.0, 5256.0, 5510.0, 5276.0, 5253.0, 5334.0, 5669.0, 5643.0, 5688.0, 5661.0, 5317.0, 5633.0, 5596.0, 5308.0, 5413.0, 5430.0, 5463.0, 5270.0, 5678.0, 5350.0, 5336.0, 5379.0, 5708.0, 5503.0, 5345.0, 5535.0, 5399.0, 5618.0, 5261.0, 5609.0, 5395.0, 5509.0, 5297.0, 5536.0, 5370.0, 5550.0, 5285.0, 5479.0, 5447.0, 5366.0, 5692.0, 5700.0, 5326.0, 5433.0, 5311.0, 5666.0, 5373.0, 5361.0, 5522.0, 5426.0, 5434.0, 5619.0, 5449.0, 5532.0, 5502.0, 5639.0, 5258.0, 5287.0, 5685.0, 5374.0, 5659.0, 5602.0, 5493.0, 5425.0, 5568.0, 5556.0, 5640.0, 5516.0, 5569.0, 5577.0, 5560.0, 5686.0, 5486.0, 5682.0, 5615.0, 5268.0, 5478.0, 5500.0, 5646.0 (number of hits: 2)

SUMMARY OF TEST RESULTS for CLIENT (VF7111)

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

Items	Description of Test	Result
Detection Bandwidth	UNII Detection Bandwidth	NR
Performance Requirements Check	Initial Channel Availability Check Time (CAC)	NR
	Radar Burst at the Beginning of the CAC	NR
	Radar Burst at the End of the CAC	NR
In-Service Monitoring	Channel Move Time	Refer to the Master result
	Channel Closing Transmission Time	Refer to the Master result
	Non-Occupancy Period	Complies
Radar Detection	Statistical Performance Check	NR

Note: NR – Not Required.

TEST RESULTS

Description of EUT

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

The antenna of the EUT is tri-band Omni antenna, the gain is -2.3 dBi (5150-5850 MHz).

The rated output power of EUT is <23 dBm (EIRP), Therefore the required interference threshold level is -62 dBm, after correction for antenna gain and procedure adjustments, the required conducted threshold at antenna port is $-62 + (-2.3) + 1 = -63.3$ dBm.

The calibrated conducted DFS detection threshold level is set to -63.3 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.

Test result show that the EUT requires 21.5 seconds to complete its initial power-up cycle.

Test Equipment

Equipment Description	Manufacturer	Model Number	S/N
NI PXI-1042 8-Slot chassis	National Instruments	PXI-1042	V08X01EE1
Arbitrary Waveform Generator	National Instruments	PXI-5421	N/A
RF Upconverter	National Instruments	PXI-5610	N/A
Upconverter	Ascor	AS-7206	N/A
Spectrum Analyzer	Agilent	E4440A	MY44303352
Pre-Amplifier	Avantek	2-8 GHz Lab AMP	218
Pre-Amplifier	Ducommun Technologies	ALN-09173030-01	990297-02
Splitter/Combiner	Mini-Circuits	2FSC-2-10G	0349
Splitter/Combiner	Narada	4326B-2	03514
Attenuator	MIDWest	290-30	N/A
Attenuator	Mini-Circuits	BW-S30W2	N/A

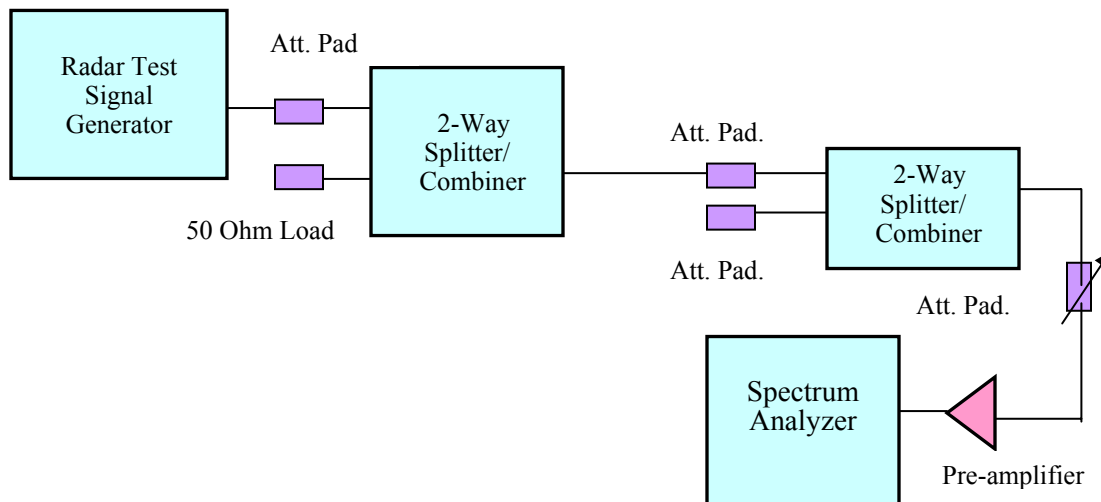
* **Statement of Traceability: BACL Corp.** attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

Environmental Conditions

Temperature:	20-23 °C
Relative Humidity:	48%- 55%
ATM Pressure:	1015 mbar

Testing performed by Victor Zhang on 2008-05-27 to 2008-06-03

Radar Waveform Calibration



Conducted Calibration Setup Block Diagram

Please refer to the master VF7811 result.

Non-Occupancy Period

Test Procedure

Client device is not permitted to transmit beacons on DFS frequencies.

- 1) Non-associated test: The master has been off, monitor the analyzer on the test mode frequency that have been selected for testing, power up the client for 30 minutes to make sure no beacons have been transmitted.
- 2) Associated test: Associate the master and client and stream the movie as specified for non-occupancy test. Transmit Radar type 1, monitor the test frequency to make sure no beacons have been transmitted for 30 minutes.

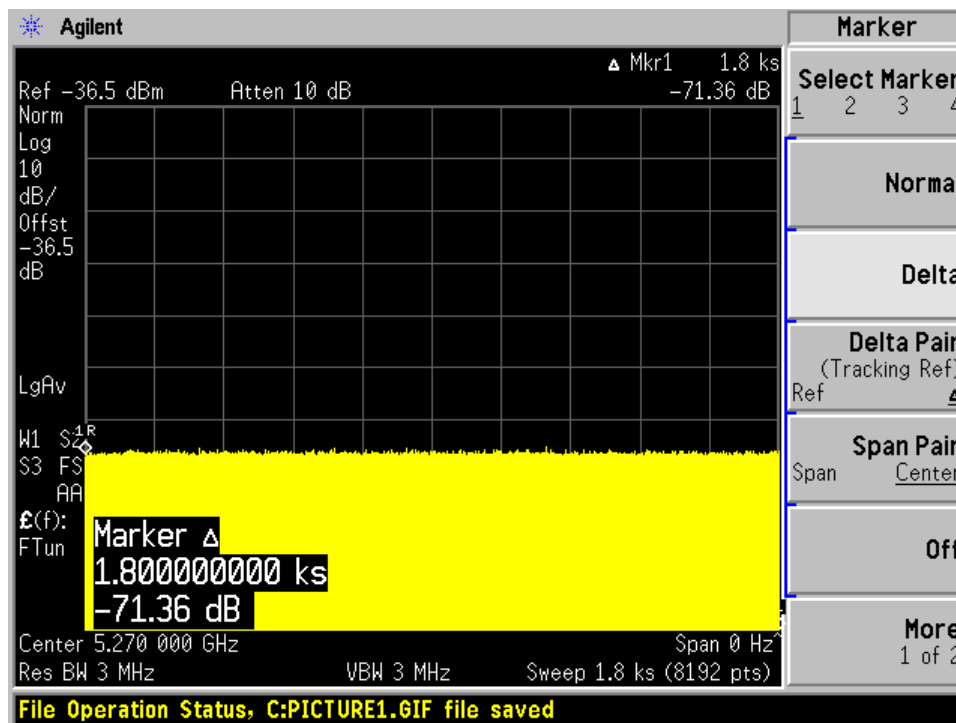
Result: Pass.

Mode	Results
Non-Associated	No Beacons transmit
Associated	No transmissions

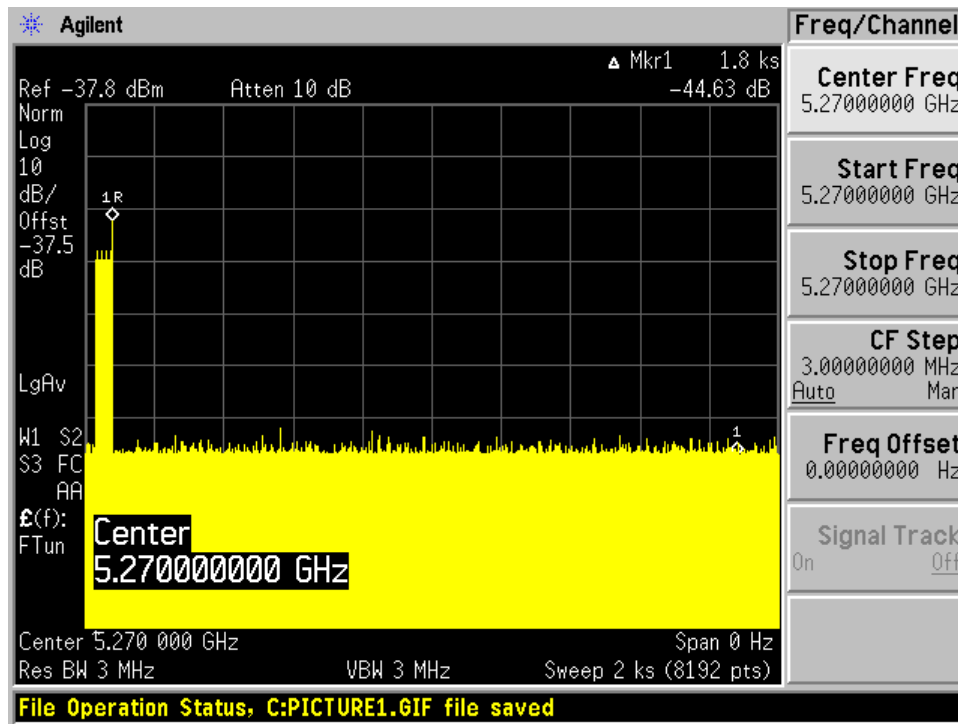
Please refer to the following plots.

5270 MHz:

1) Non-associated:

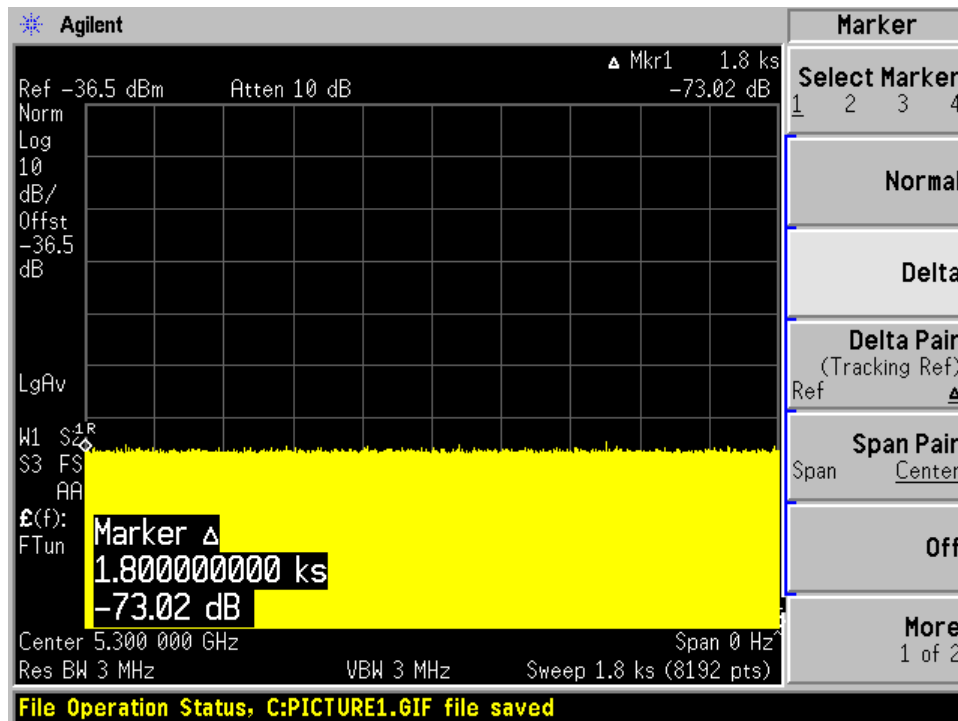


2) Associated:

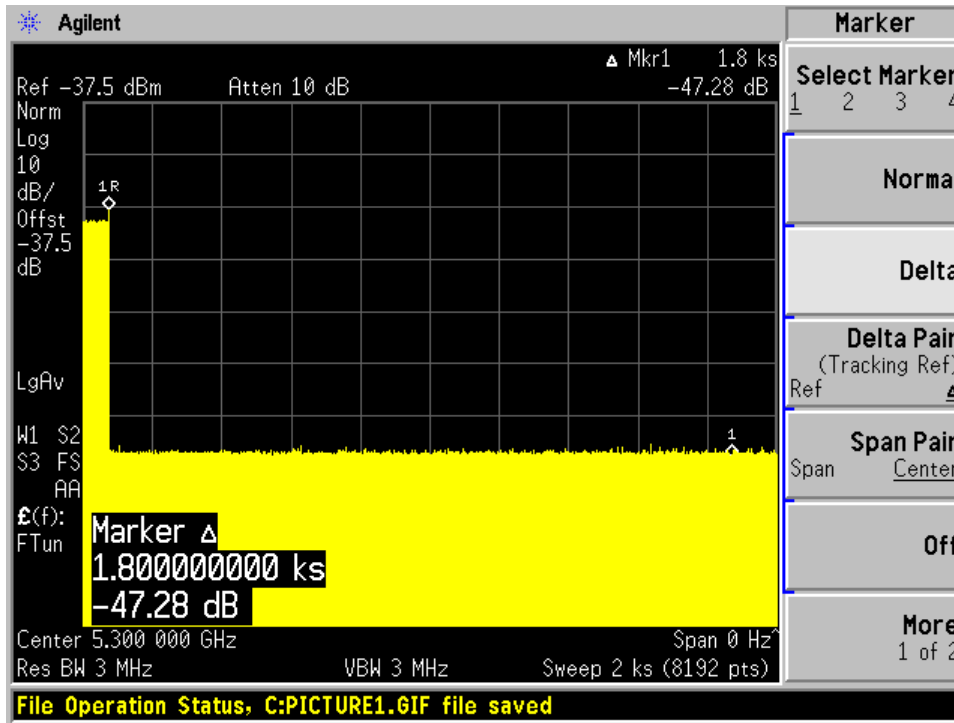


5300 MHz:

1) Non-associated:

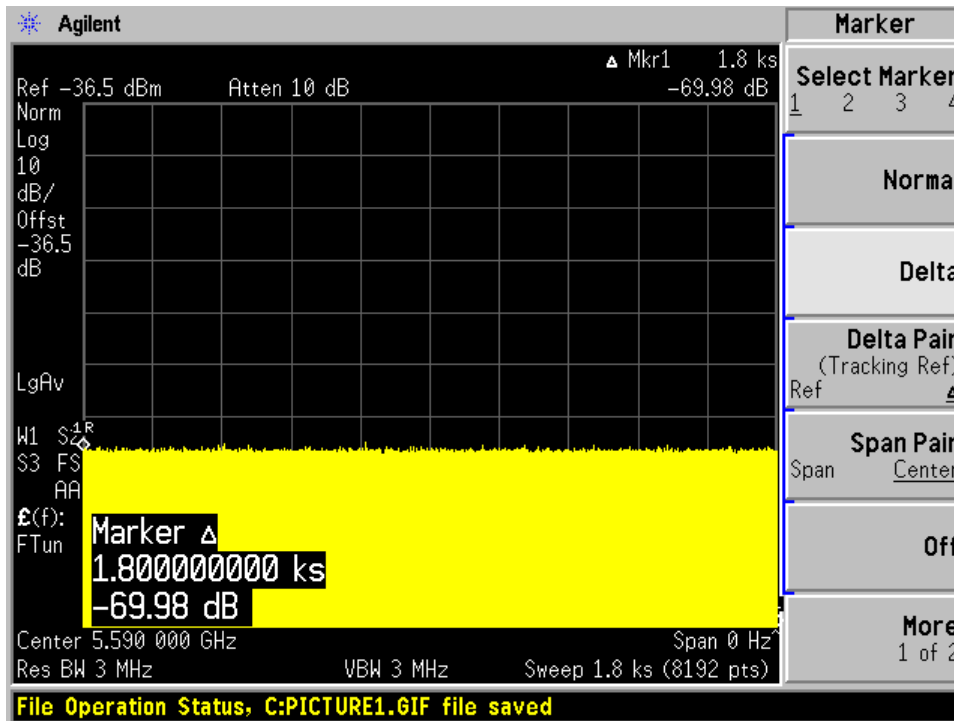


2) Associated:

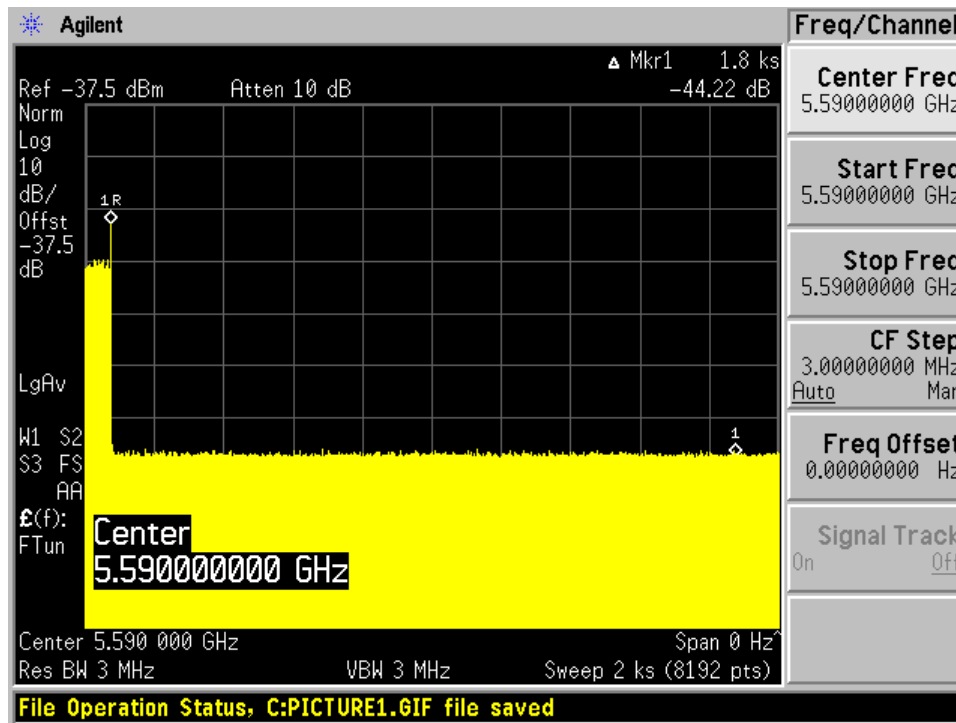


5590 MHz:

1) Non-associated:

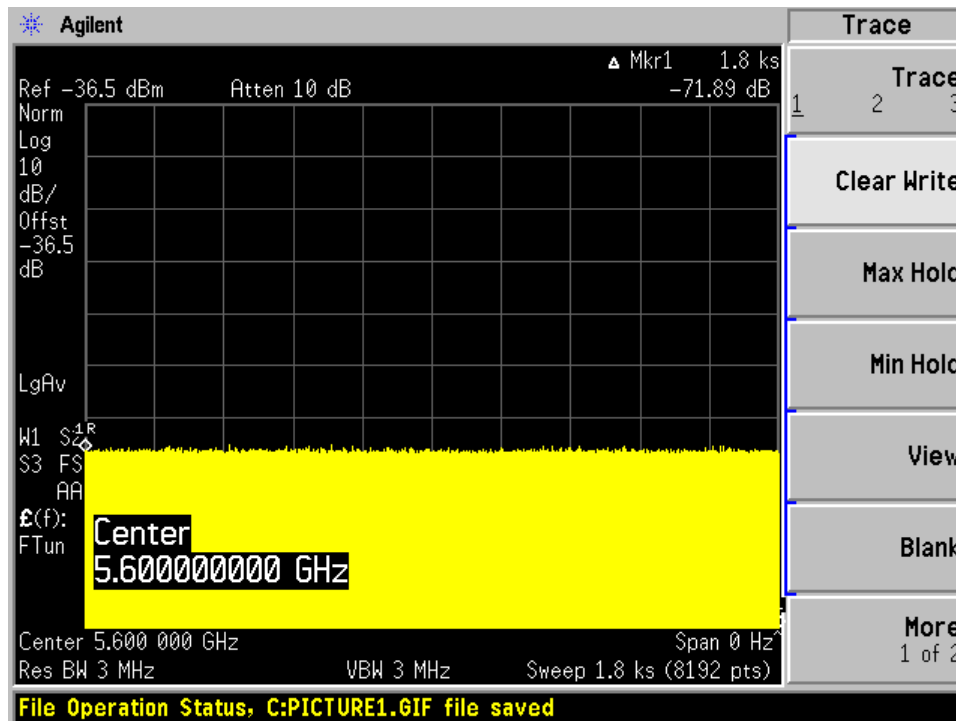


2) Associated:

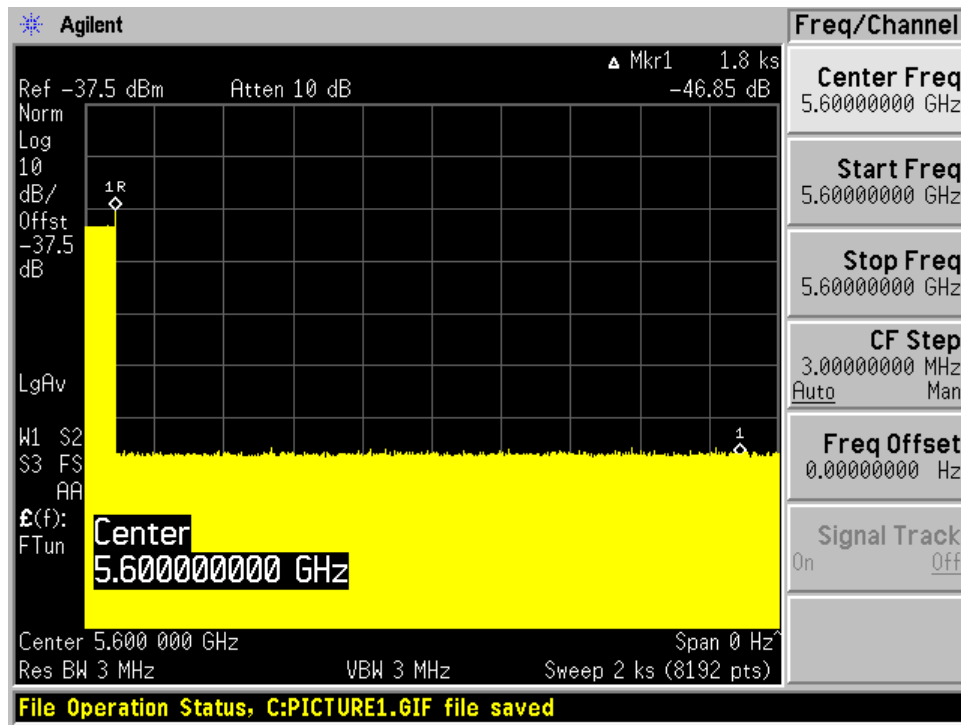


5600 MHz:

1) Non-associated:



2) Associated:



Channel Availability Check Time (CAC)

Test Procedure

- 4) Measure the initial power-up time of EUT.
- 5) 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.
- 6) Reboot EUT, with a link established on channel, apply a radar signal within 54~60 seconds after the initial power-up period, monitor the transmission on channel from the spectrum analyzer.

EUT Initial power-up Cycle Time

EUT initial Power-up cycle (Second)
/

Results: Not Required.

Channel Move time and channel closing transmission time

Test Procedure:

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

The aggregate channel closing transmission time is calculated as follows:

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

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)

Results: Refer to the VF7811 Master Results.

Detection Bandwidth

Procedure:

Performed with any one of the short pulse radar waveforms (type 1, 2, 3 or 4)

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

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

Increment radar generator frequency by 1 MHz and repeat

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

Continue incrementing the radar frequency until detection rate falls below 90%

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

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

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

UNII Detection Bandwidth = $F_H - F_L$

Result: Not Required.

In-Service Monitoring

Procedure:

Stream MPEG file from master to slave

Generate radar waveform

Record whether or not the waveform was detected

At least 30 trials are applied for each radar type

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

Perform with each of the radar types 1-6

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

Type 1, 2, 3, 4: 60% each

Type 5: 80%

Type 6: 70%

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

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

Result: Not Required.

APPENDIX A - TEST SETUP PHOTOGRAPHS

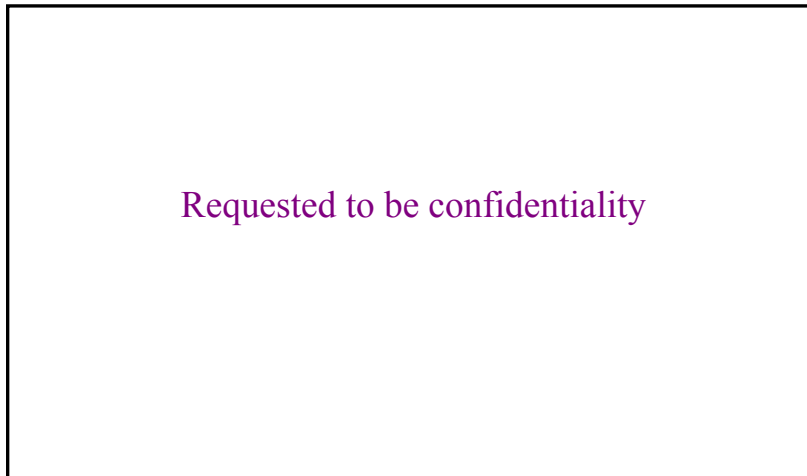
Setup View



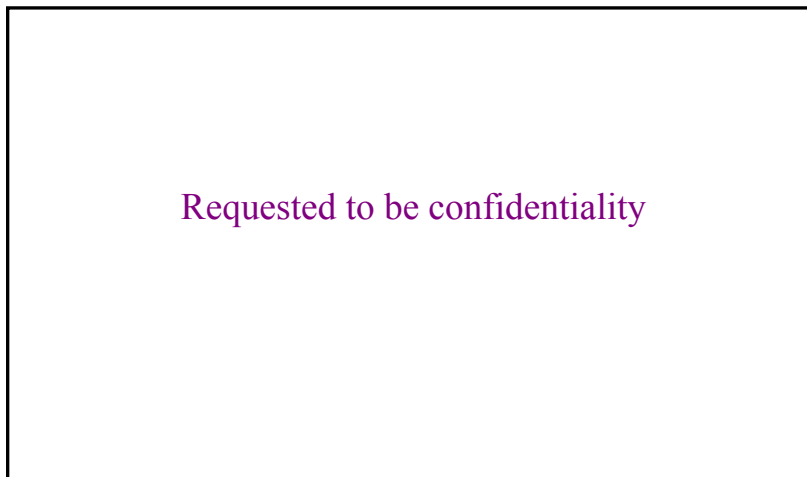
Test Setup Photos requested to be confidentiality

APPENDIX B - EUT PHOTOGRAPHS

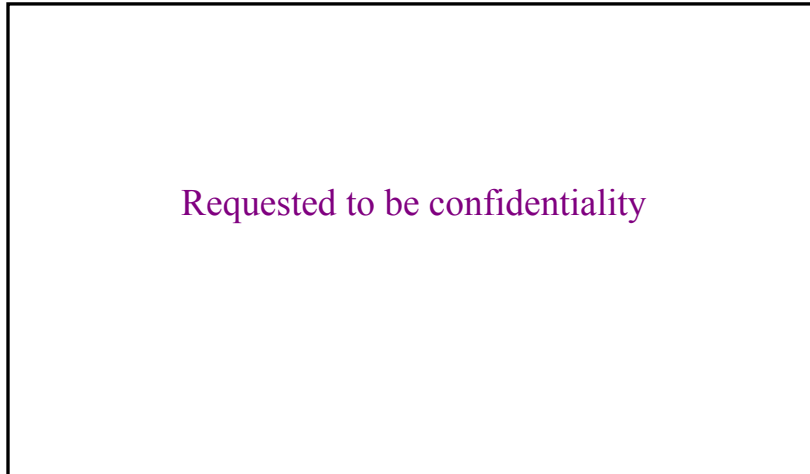
EUT Front View



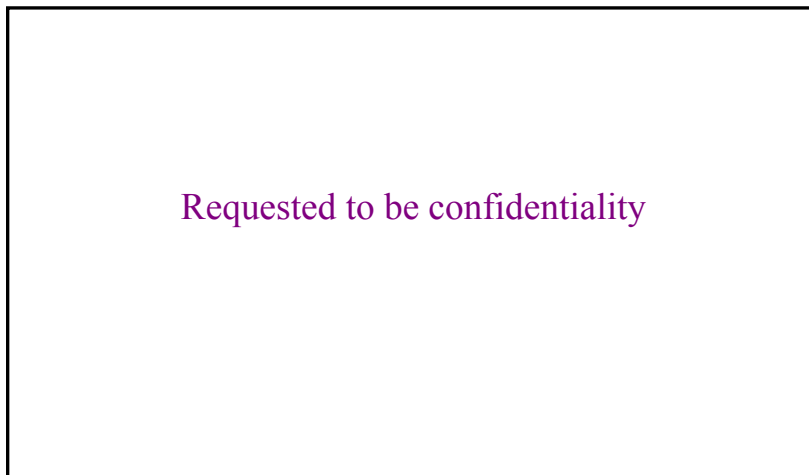
EUT Rear View



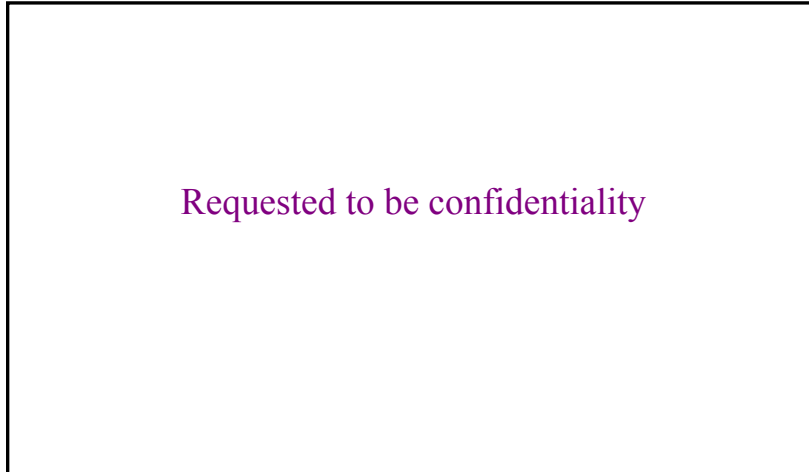
EUT Port View



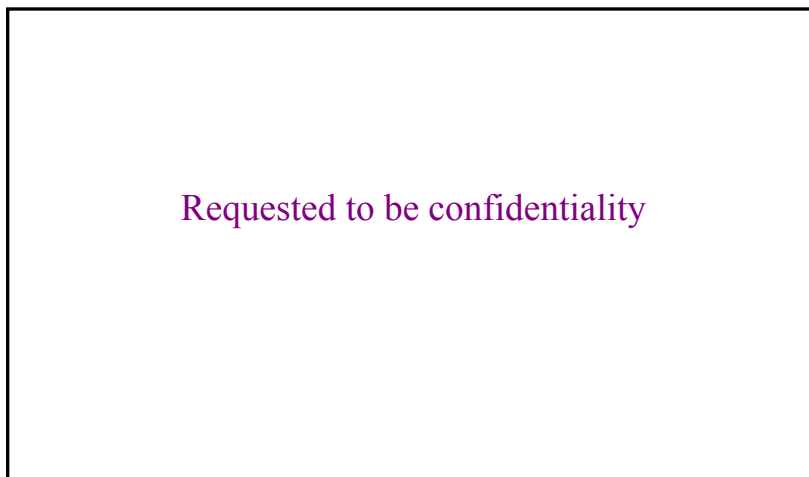
Antenna View



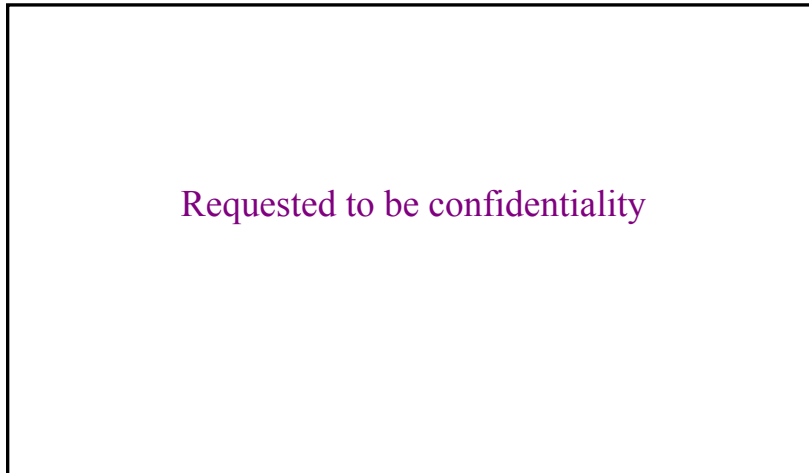
PCB Component View



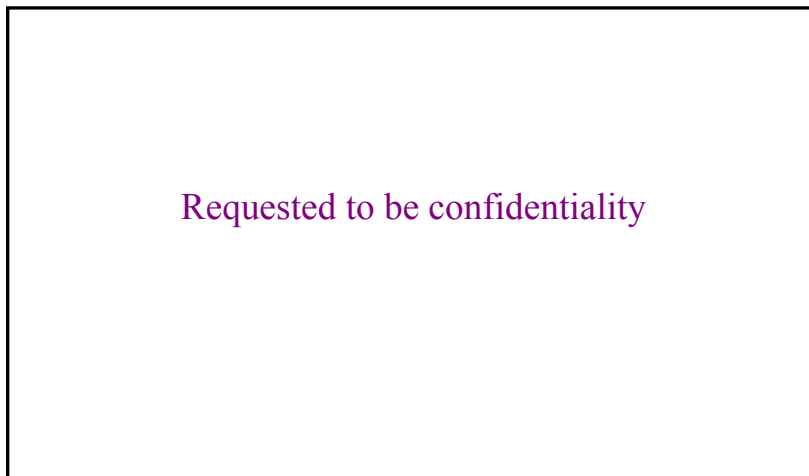
RF Modula View



PCB Solder View




Adapter View



APPENDIX C – ANTENNA SPECIFICATIONS



Antenna Patterns

	Manager
	
4/18/2008	4/18/2008

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 Fax: (408) 738-2065

Requested to be confidentiality

******* END OF REPORT *******