FCC PART 15.407(H)
RSS 210 ISSUE, DEC 2010
DYNAMIC FREQUENCY SELECTION
TEST AND MEASUREMENT REPORT

For

Ruckus Wireless, Inc.

880 West Maude Avenue, Suite 101

Sunnyvale, CA 94085, USA

FCC ID: S9GZF7321
Model: ZoneFlex 7321

Report Type: Original Report	**Equipment Type:** 802.11a/b/g/n Access Point
Prepared By	Ning Ma
Report No.	R1203215A-DFS
Report Date	2012-08-02
Reviewed By	Victor Zhang EMC/RF Lead
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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	R1203215-FCC DFS	Original Report	2012-05-30
1	R1203215A-DFS	Update Data	2012-08-02

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1 GENERAL DESCRIPTION

1.1 Product Description for Equipment under Test (EUT)

This test and measurement report was prepared on behalf of *Ruckus Wireless, Inc.*, and their product FCC ID: S9GZF7321, model: *ZoneFlex7321* . The EUT is an 802.11 a/b/g/n RLAN Access Point.

1.2 Mechanical Description of EUT

The EUT measures approximately 13 *cm* (L) X 13 *cm* (W) X 2.75 *cm* (H) and weighs approximately 195 *g.*

The data gathered are from a production sample provided by the manufacturer, serial number: R1203215 by BACL.

1.3 Objective

This report is prepared on behalf of *Ruckus Wireless, Inc* in accordance with FCC CFR47 §15.407 (h) and FCC 06-96 Appendix.

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

1.4 Related Submittal(s)/Grant(s)

N/A

1.5 Test Methodology

FCC CFR 47 Part2, Part15.407 (h)

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

1.6 Test Facility

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

The test site at BACL Corp. has been fully described in reports submitted to the Federal Communication Commission (FCC) and Voluntary Control Council for Interference (VCCI). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 11 and December 10, 1997, and Article 8 of the VCCI regulations on December 25, 1997. The test site also complies with the test methods and procedures set forth in CISPR 22:2008 §10.4 for measurements below 1 GHz and §10.6 for measurements above 1 GHz as well as ANSI C63.4-2003, ANSI C63.4-2009, TIA/EIA-603 & CISPR 24:2010.

The Federal Communications Commission and Voluntary Control Council for Interference have the reports on file and they are listed under FCC registration number: 90464 and VCCI Registration No.: R-3729, C-4176, G-469, and T-1206. The test site has been approved by the FCC and VCCI for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, BACL Corp. is an American Association for laboratory Accreditation (A2LA) accredited laboratory (Lab Code 3297-02). The current scope of accreditations can be found at http://www.a2la.org/scopepdf/3297-02.pdf?CFID=1132286&CFTOKEN=e42a3240dac3f6ba-6DE17DCB-1851-9E57-477422F667031258&jsessionid=8430d44f1f47cf2996124343c704b367816b

2 EUT TEST CONFIGURATION

2.1 Justification

The EUT was configured for testing according to FCC Part 15.407(H) Standard.

2.2 EUT Exercise Software

The software version is 9.4.0.157, was provided by customer and verified by Ning Ma to comply with the standard requirements being tested against.

2.3 Equipment Modifications

Includes reference to the location of the pictures

2.4 Special Equipment

N/A

2.5 Local Support Equipment

Manufacturers	Description	Models	Serial Number
-	-	-	-

2.6 Power Supply List and Details

Manufacturer	Description	Model Number	Serial Number
Jentec Technology Co.	Adapter	AH1812-B	-

2.7 EUT Internal Configuration

Manufacturer	Objects/Parts	Model	Series Number
Ruckus	Mother Board	5816A0523000	120721021041

2.8 External I/O Cabling List and AC Cord

Cable Description	Length (M)	From	To
RJ 45	< 1.0	Laptop	EUT

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

4 APPLICABLE STANDARDS

4.1 DFS Requirement

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

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

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

Table 2: Applicability of DFS requirements during normal operation

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

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

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

Note 1: *This is the level at the input of the receiver assuming a 0 dBi receive antenna.*
Note 2: *Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.*

Table 4: DFS Response requirement values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 80% of the UNII 99% transmission power bandwidth. See Note 3.

Note 1: *The instant that the Channel Move Time and the Channel Closing Transmission Time begins is as follows:*

- *For the Short Pulse Radar Test Signals this instant is the end of the Burst.*
- *For the Frequency Hopping radar Test Signal, this instant is the end of the last radar Burst generated.*
- *For the Long Pulse Radar Test Signal this instant is the end of the 12 second period defining the Radar Waveform.*

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

Note 3: *During the U-NII Detection Bandwidth detection test, radar type 1 is used and for each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.*

Table 5: Short Pulse Radar Test Waveforms

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

Table 6: Long Pulse Radar Test Signal

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

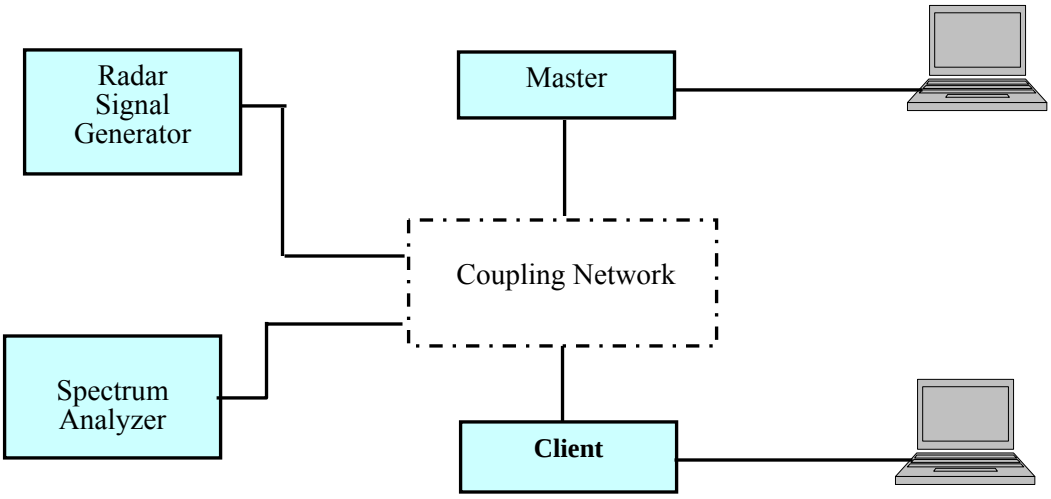
Table 7: Frequency Hopping Radar Test Signal

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

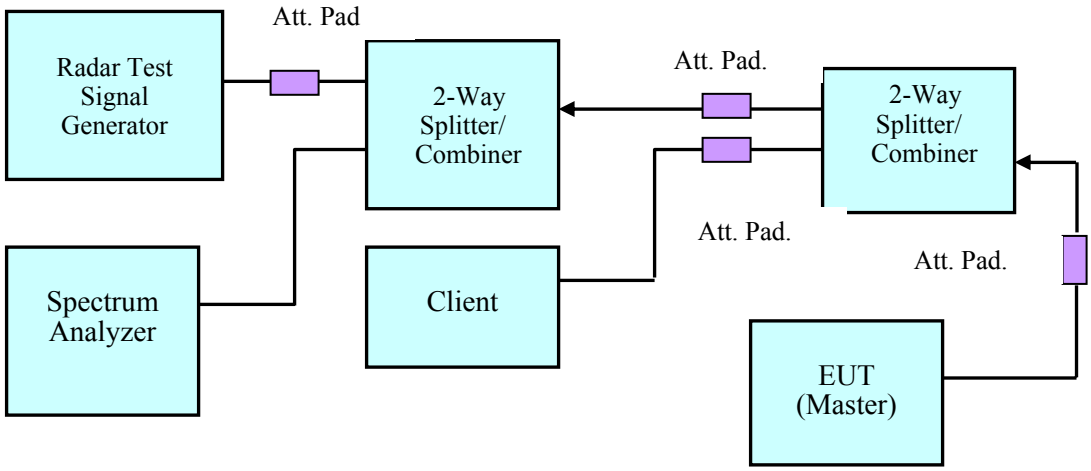
4.2 DFS Measurement System

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

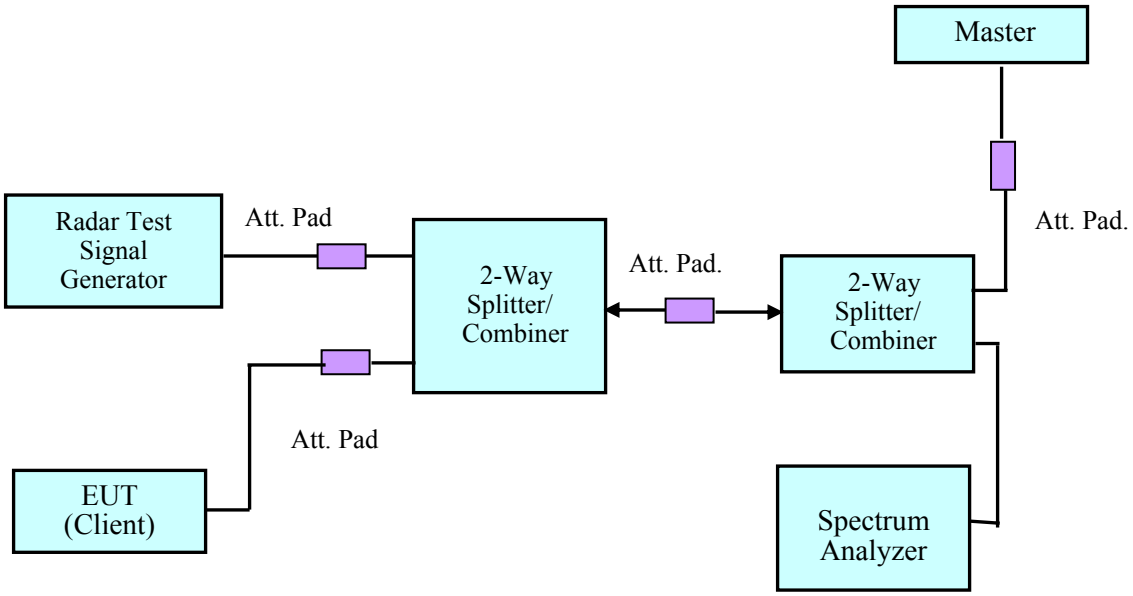
4.3 System Block Diagram



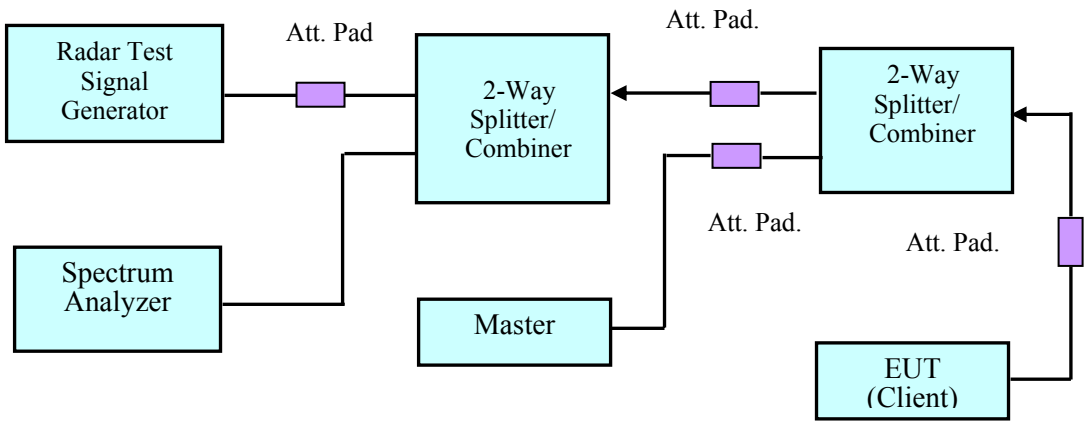
4.4 Conducted Method



Setup for Master with injection at the Master

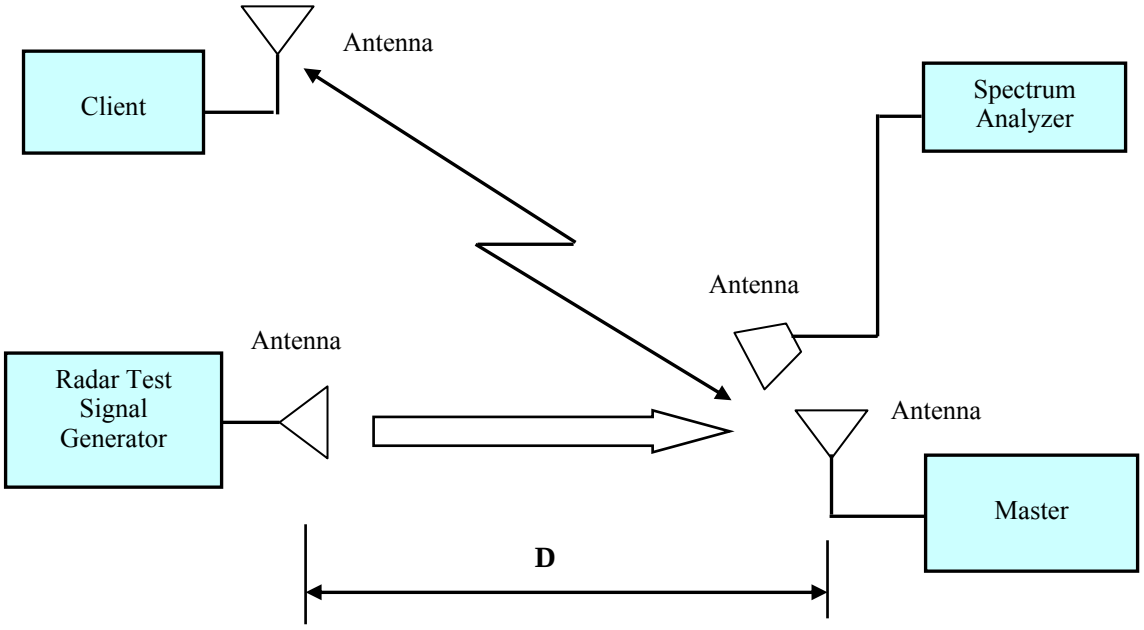


Setup for Client with injection at the Master



Setup for Client with injection at the Client

4.5 Radiated Method



4.6 Test Procedure

A spectrum analyzer is used as a monitor 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.

5 TEST RESULTS

5.1 Description of EUT

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

The rated output power of EUT is <23 dBm (EIRP), Therefore the required interference threshold level is -62 dBm, the required radiated threshold at antenna port is -62dBm.

The calibrated radiated DFS detection threshold level is set to -62 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 29.44 seconds to complete its initial power-up cycle.

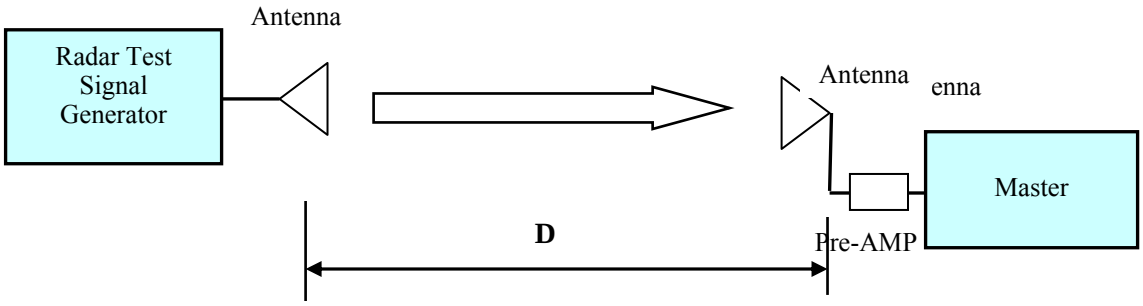
The EUT will not work on 5600-5650MHz band.

5.2 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.*

5.3 Radar Waveform Calibration



Radiated Calibration Setup Block Diagram

5.4 Environmental Conditions

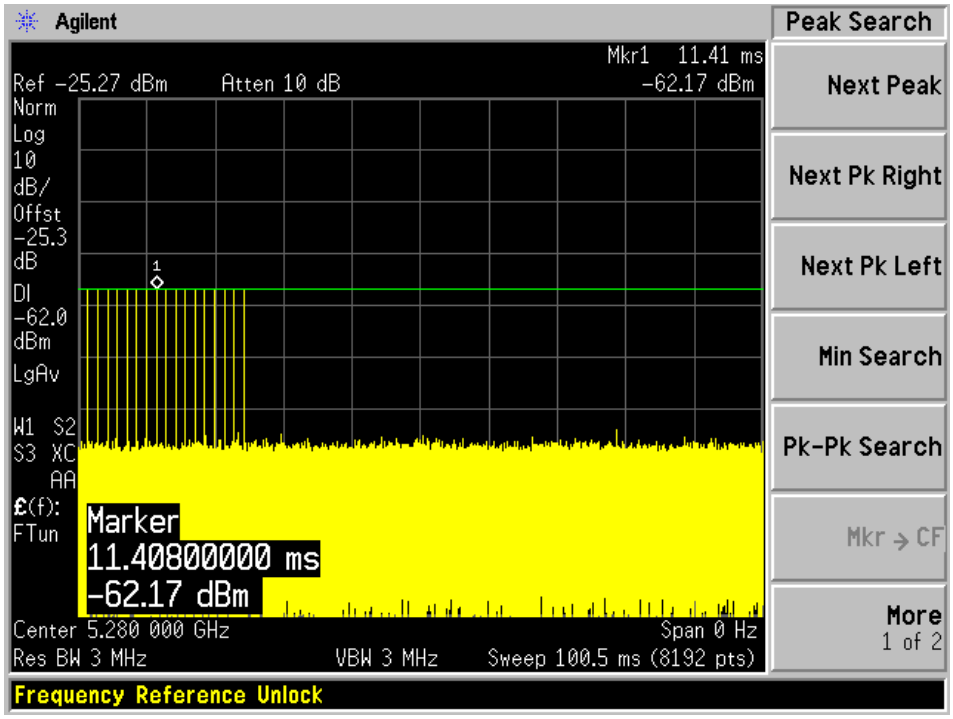
Temperature:	20-23 °C
Relative Humidity:	48%- 55%
ATM Pressure:	1015 mbar

Testing is performed by Ning Ma on 2012-03-21.

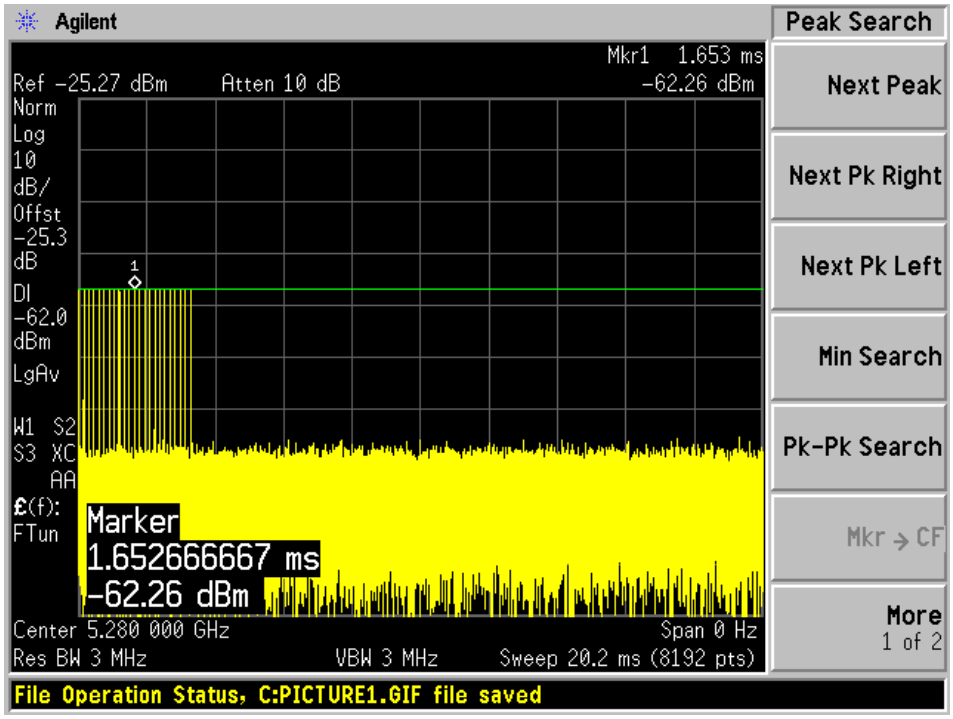
Plots of Radar Waveforms

5280 MHz

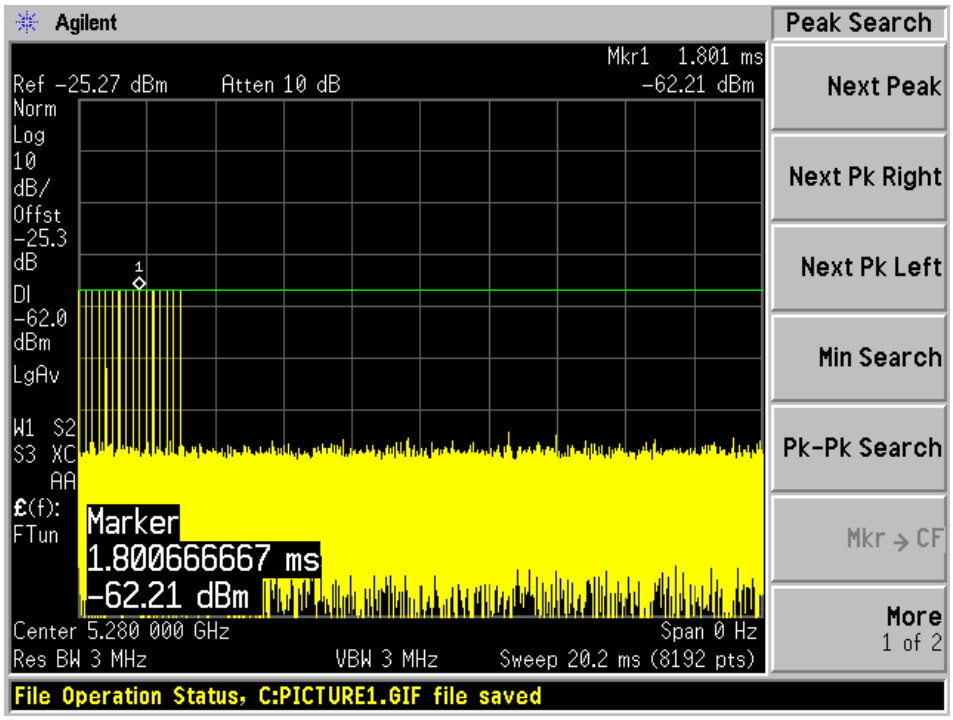
Radar Type 1



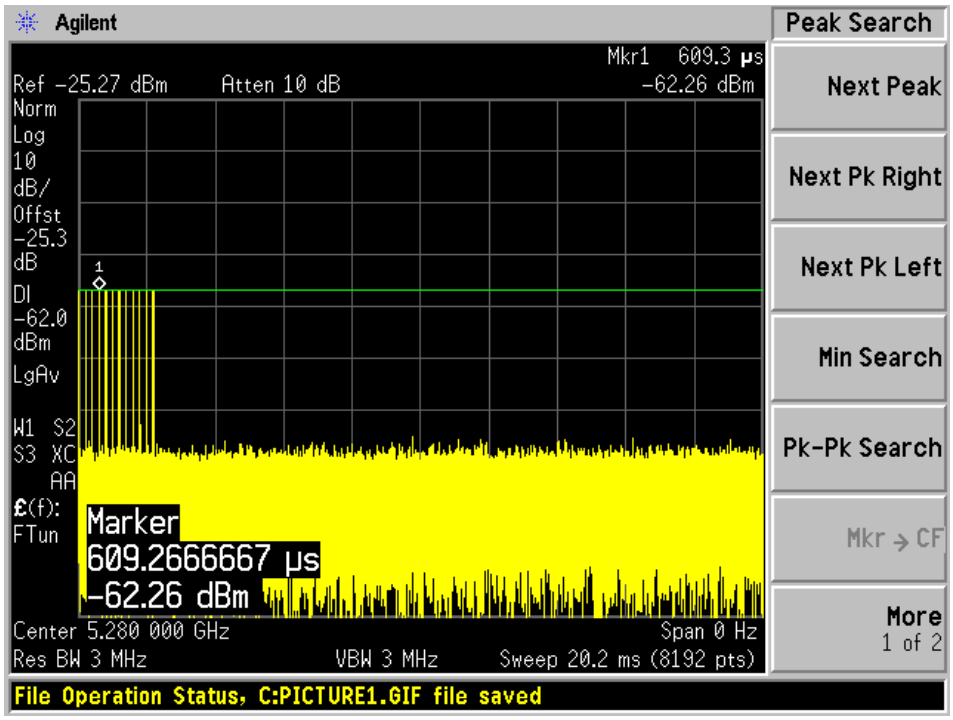
Radar Type 2



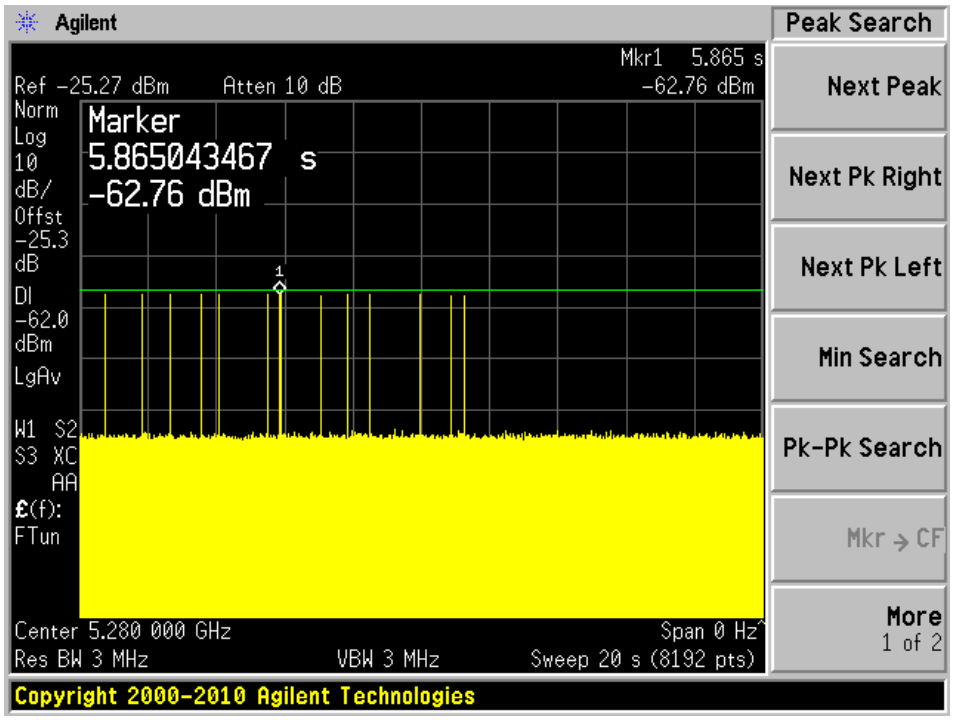
Radar Type 3



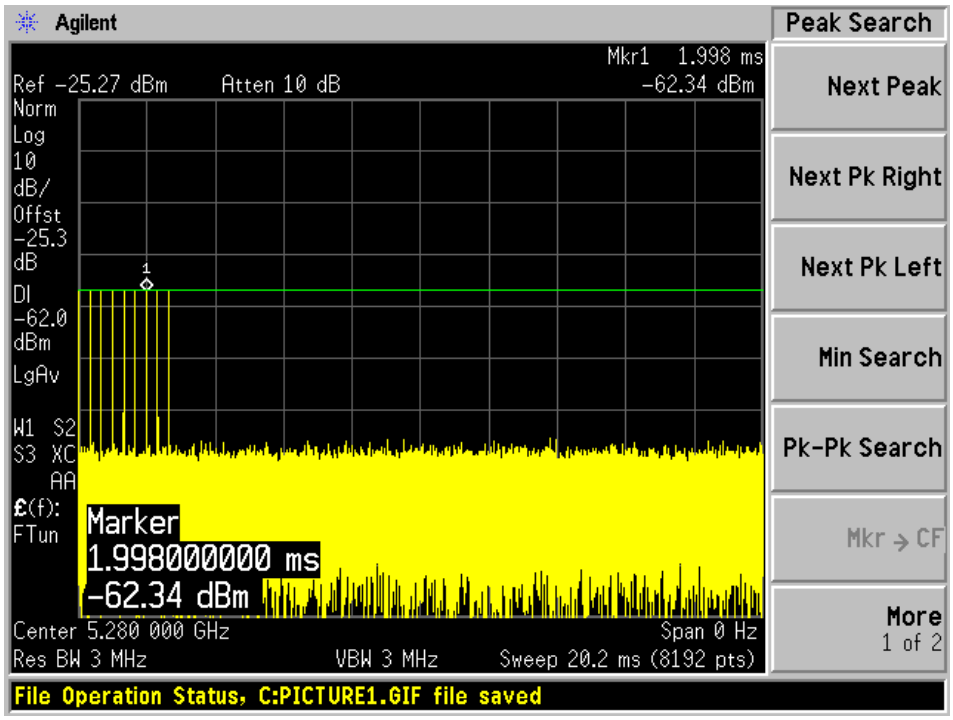
Radar Type 4



Radar Type 5

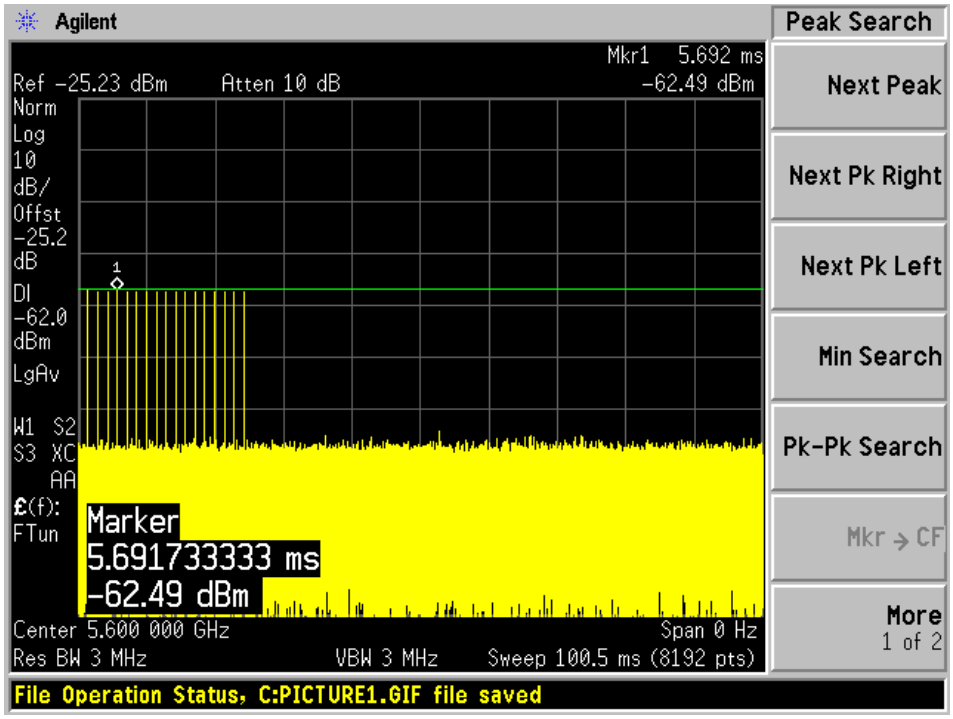


Radar Type 6

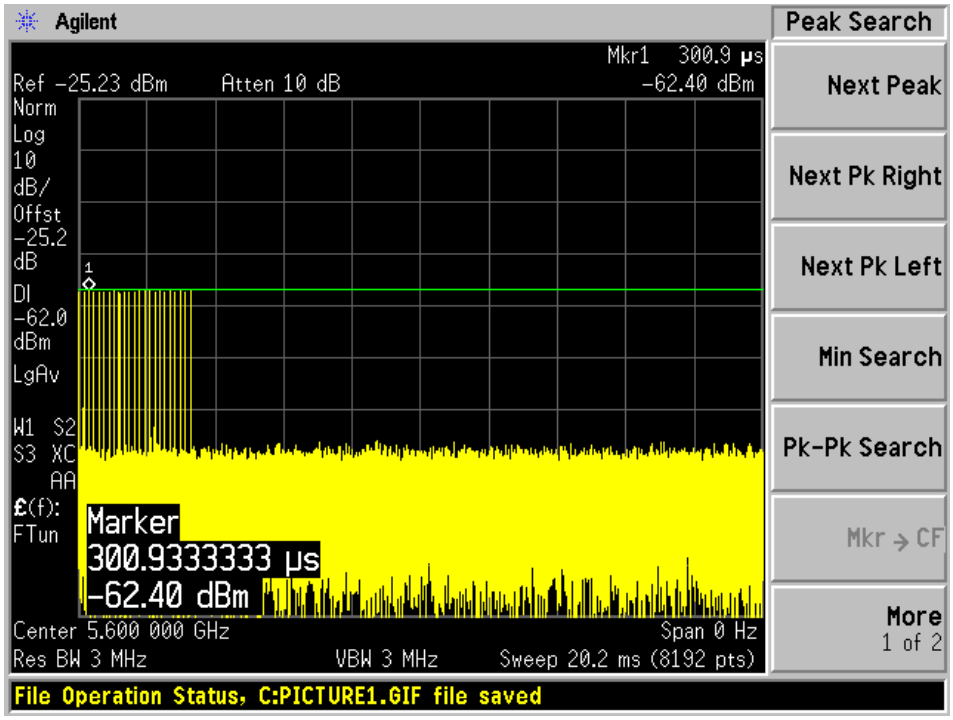


5600 MHz

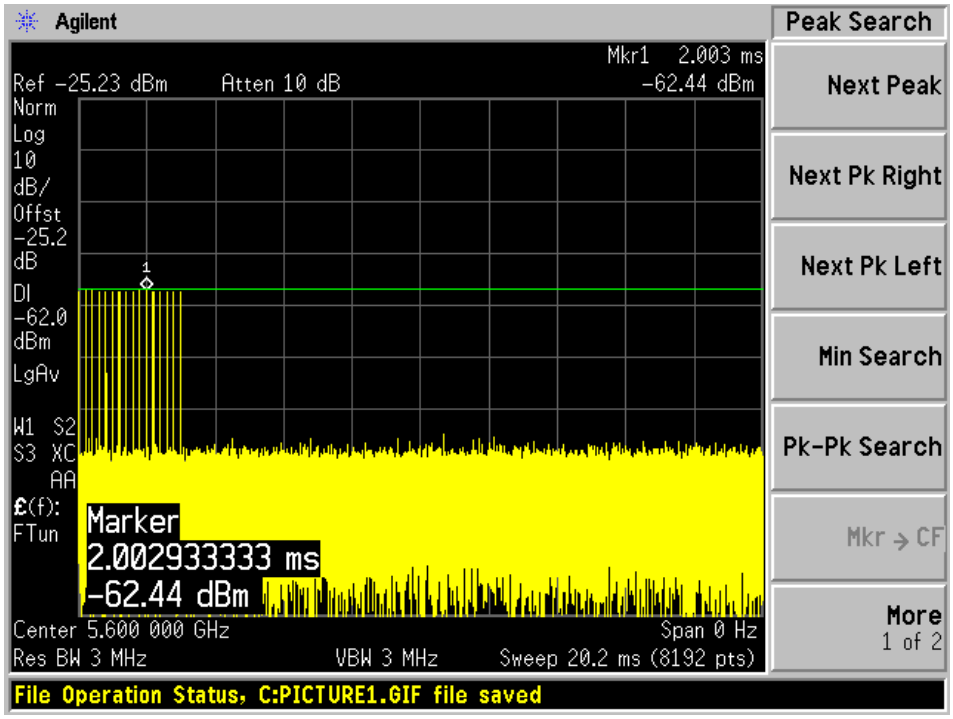
Radar Type 1



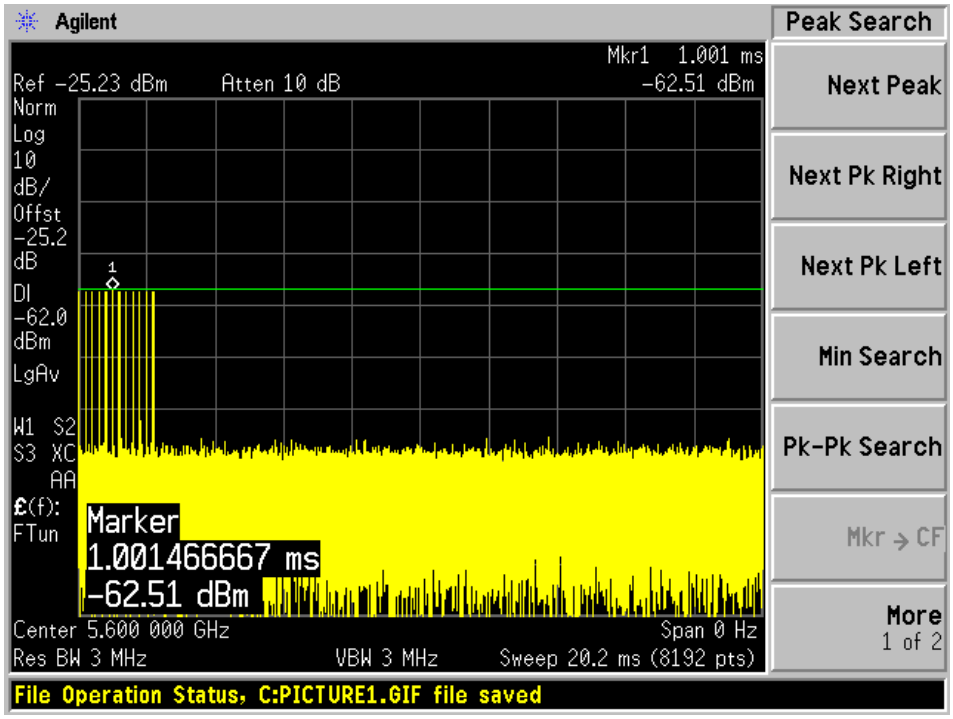
Radar Type 2



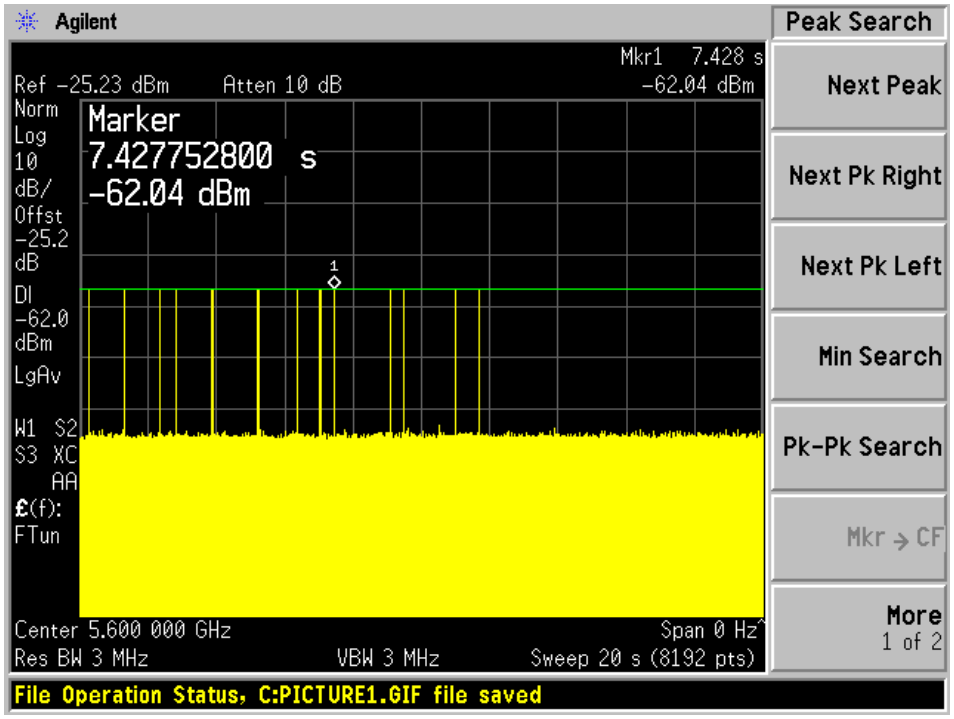
Radar Type 3



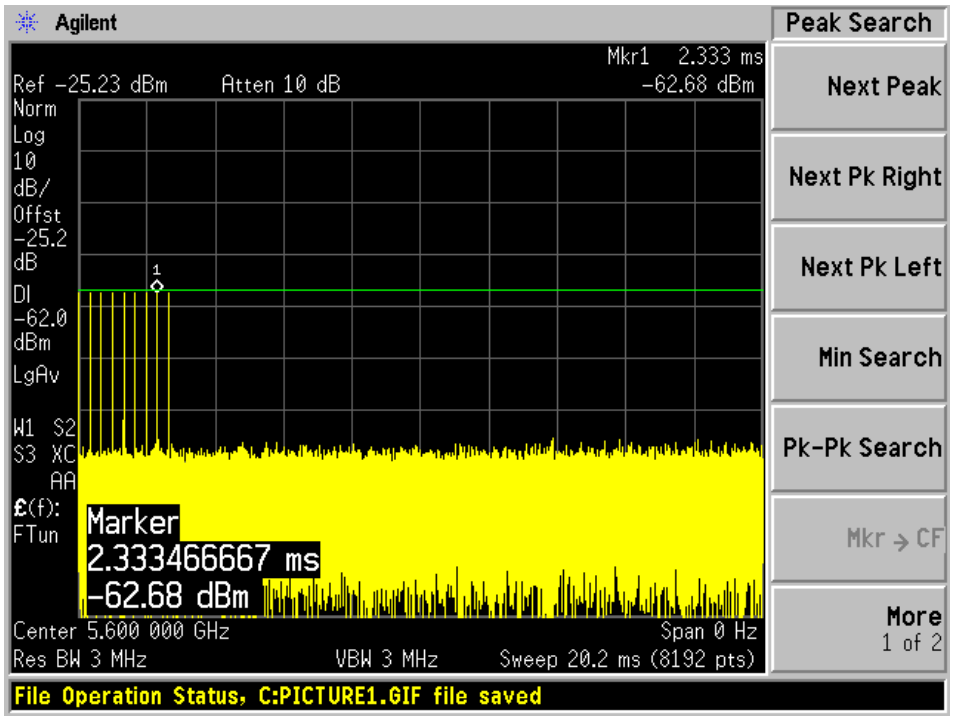
Radar Type 4



Radar Type 5



Radar Type 6



6 Channel Availability Check Time (CAC)

6.1 Test Procedure

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

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

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

EUT Initial power-up Cycle Time

5280 MHz and 5580 MHz Bandwidth 20 MHz

EUT initial Power-up cycle (Second)
29.44

5270 MHz and 5550 MHz Bandwidth 40 MHz

EUT initial Power-up cycle (Second)
29.44

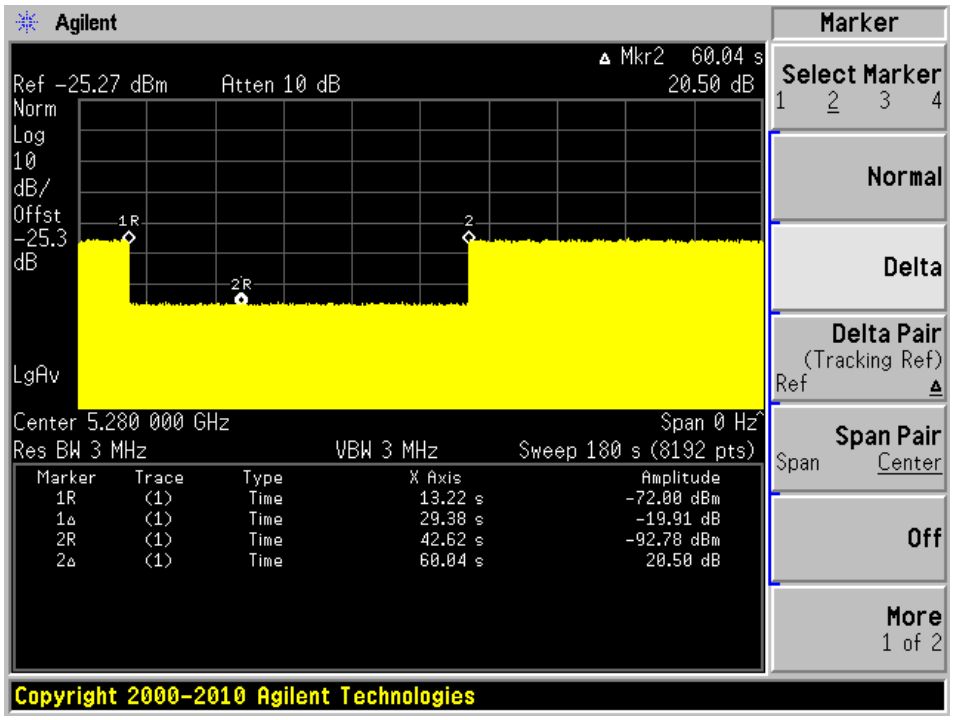
Results:

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

Please refer to the following plots.

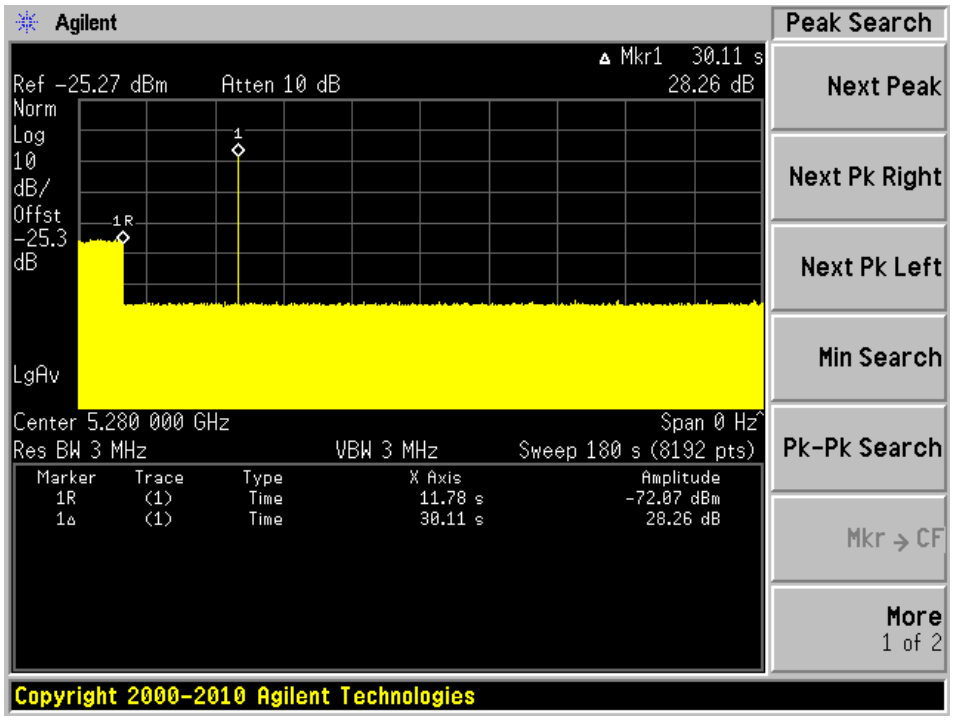
5280 MHZ Bandwidth 20 MHz

Plot of without Radar signal applied



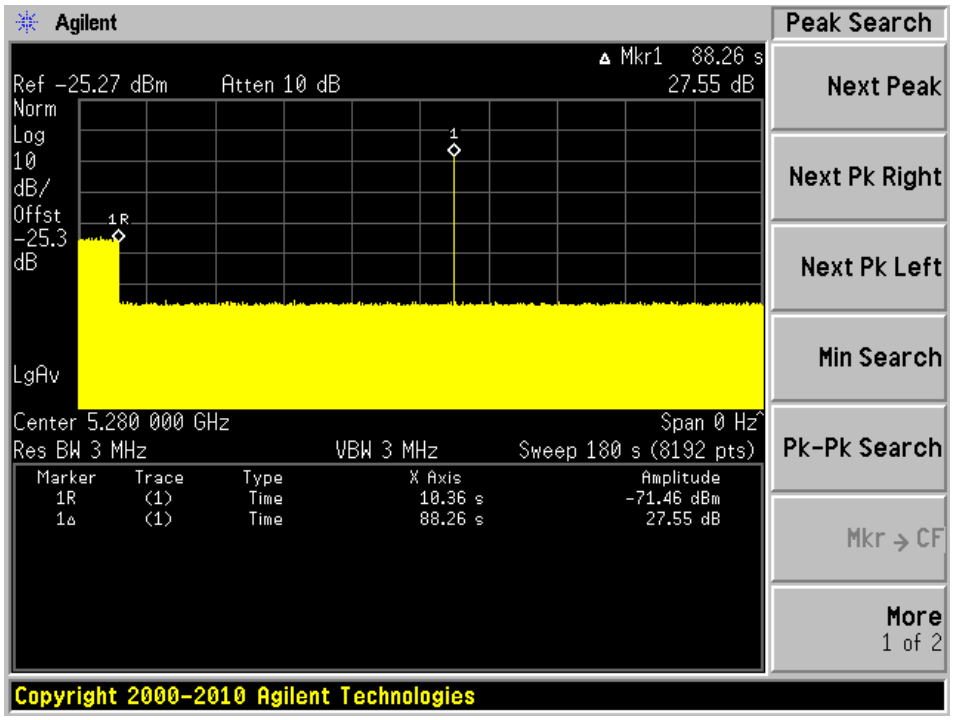
Note: *The power-up cycle is 29.38 seconds.*

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



No transmissions found after radar signal applied.

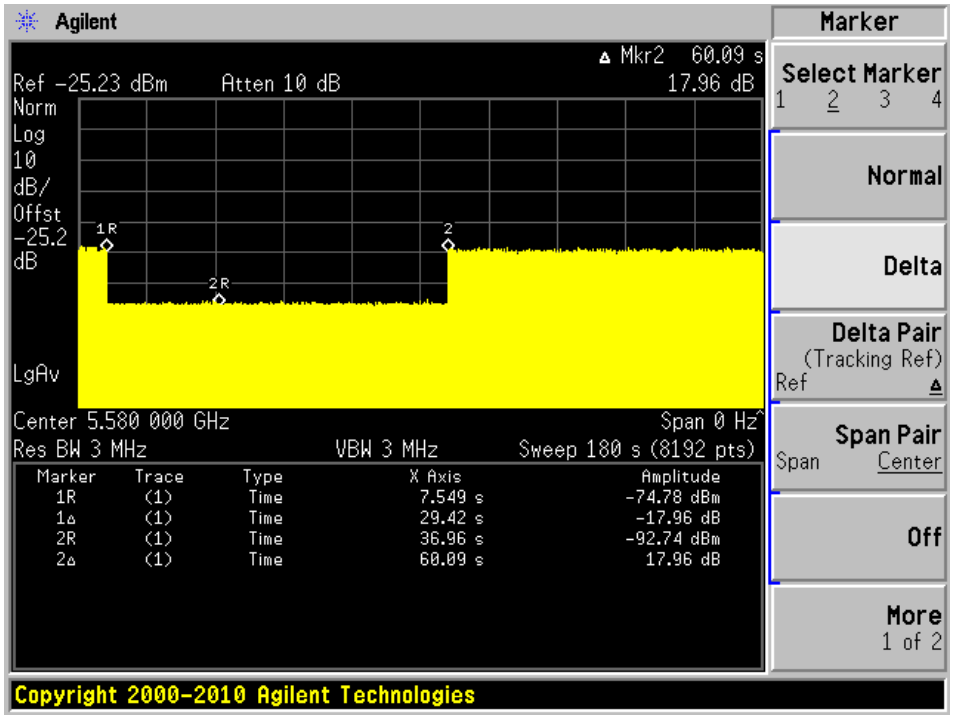
Plot of Radar signal applied at the end of 2 seconds of CAC



No transmissions found after radar signal applied.

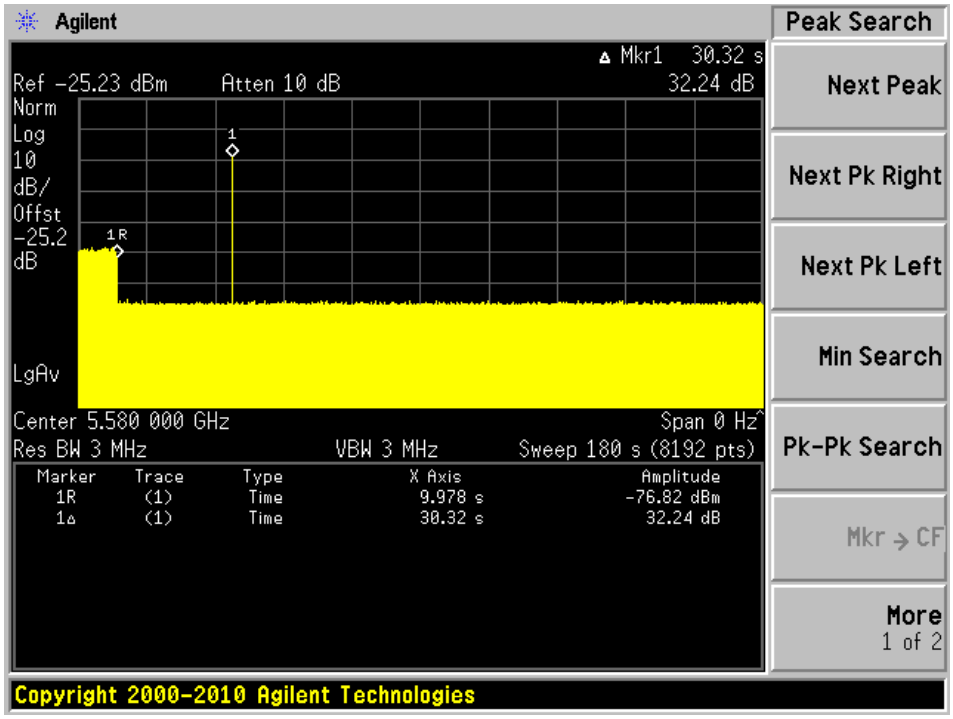
5580 MHZ Bandwidth 20 MHz

Plot of without Radar signal applied



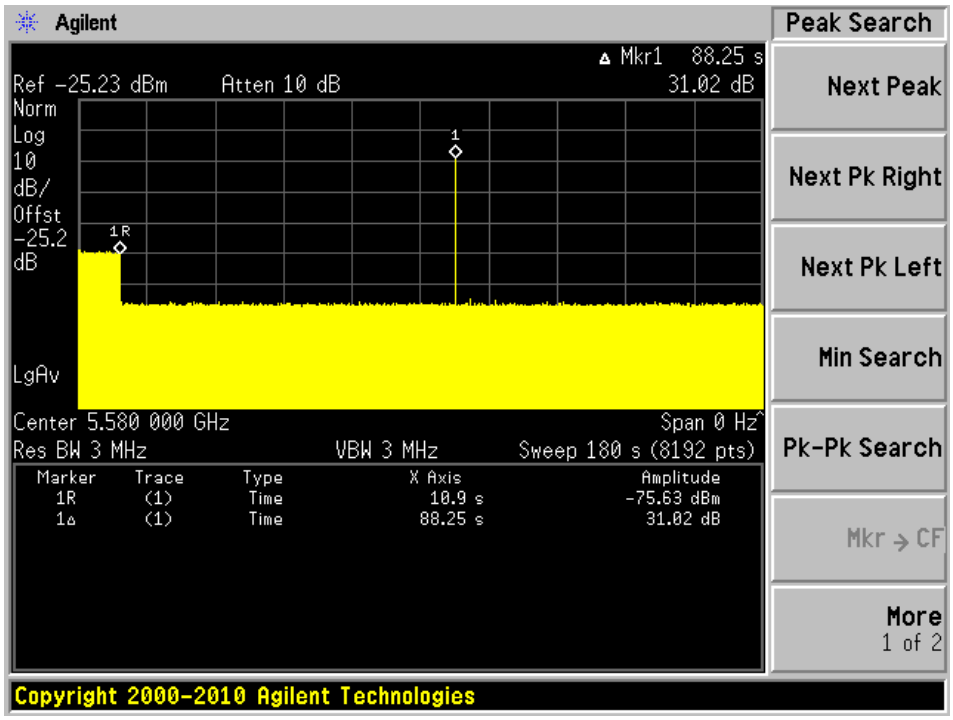
Note: *The power-up cycle is 29.42 seconds*

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



No transmissions found after radar signal applied.

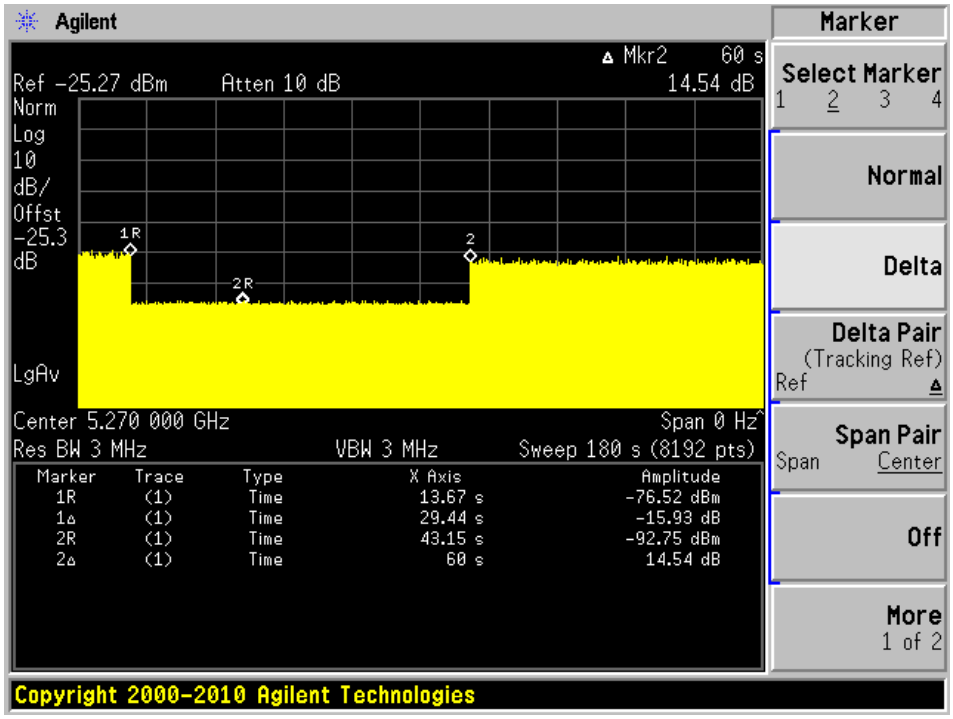
Plot of Radar signal applied at the end of 2 seconds of CAC



No transmissions found after radar signal applied.

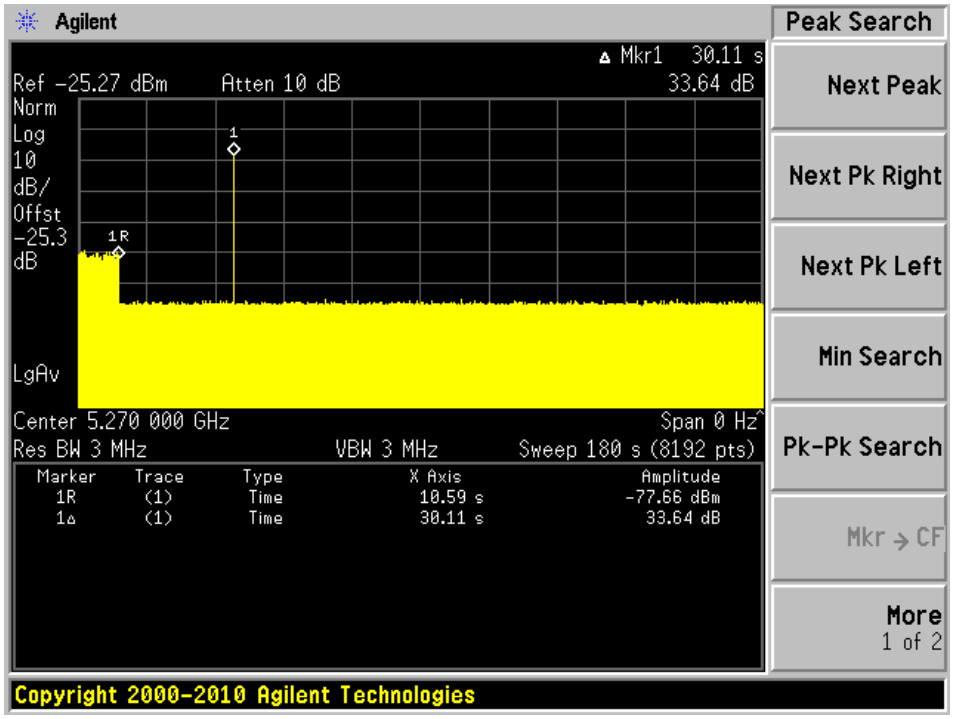
5270 MHZ Bandwidth 40 MHz

Plot of without Radar signal applied



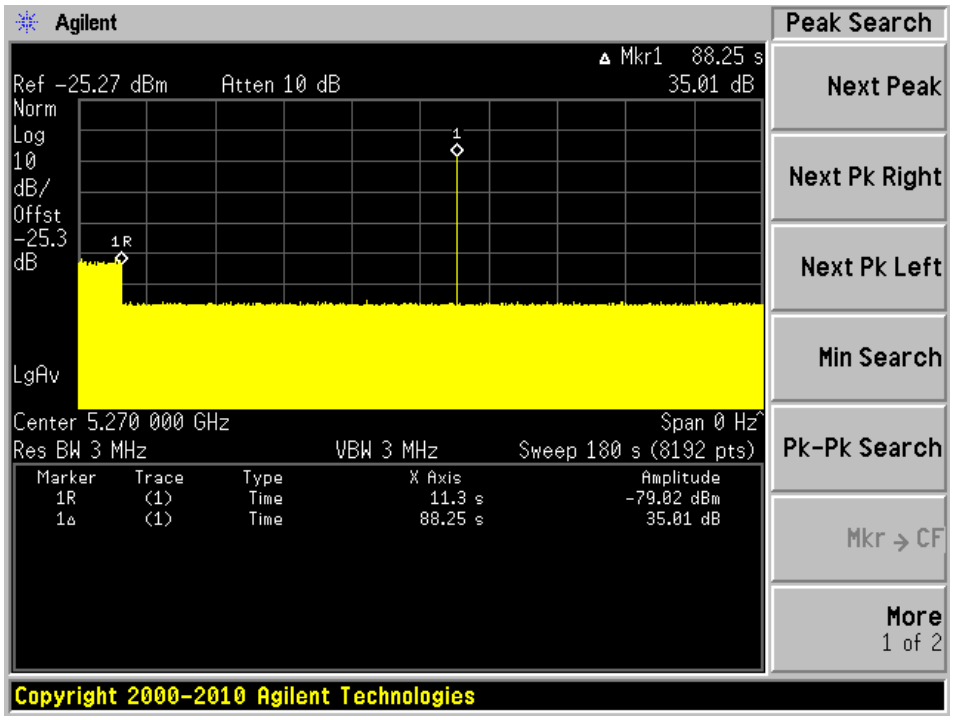
Note: *The power-up cycle is 29.44 seconds.*

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



No transmissions found after radar signal applied.

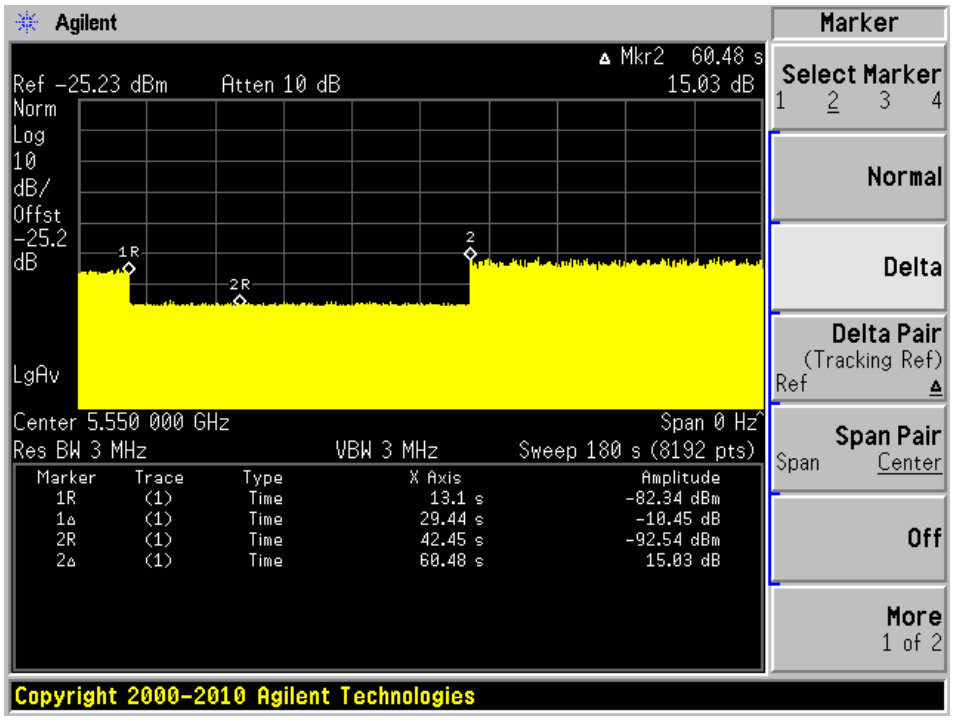
Plot of Radar signal applied at the end of 2 seconds of CAC



No transmissions found after radar signal applied.

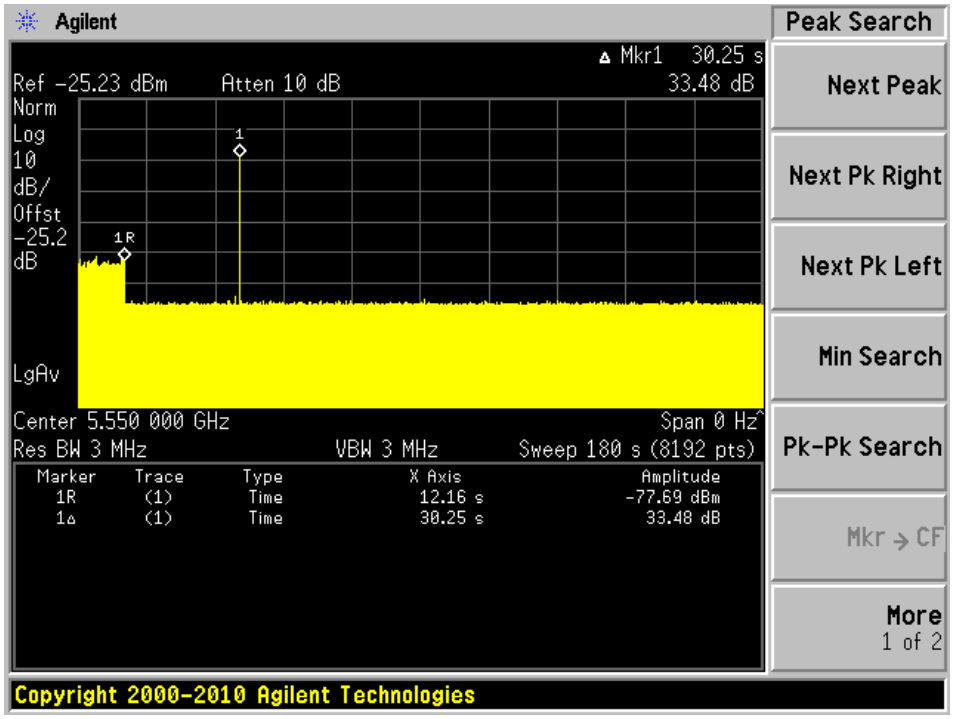
5550 MHZ Bandwidth 40 MHz

Plot of without Radar signal applied



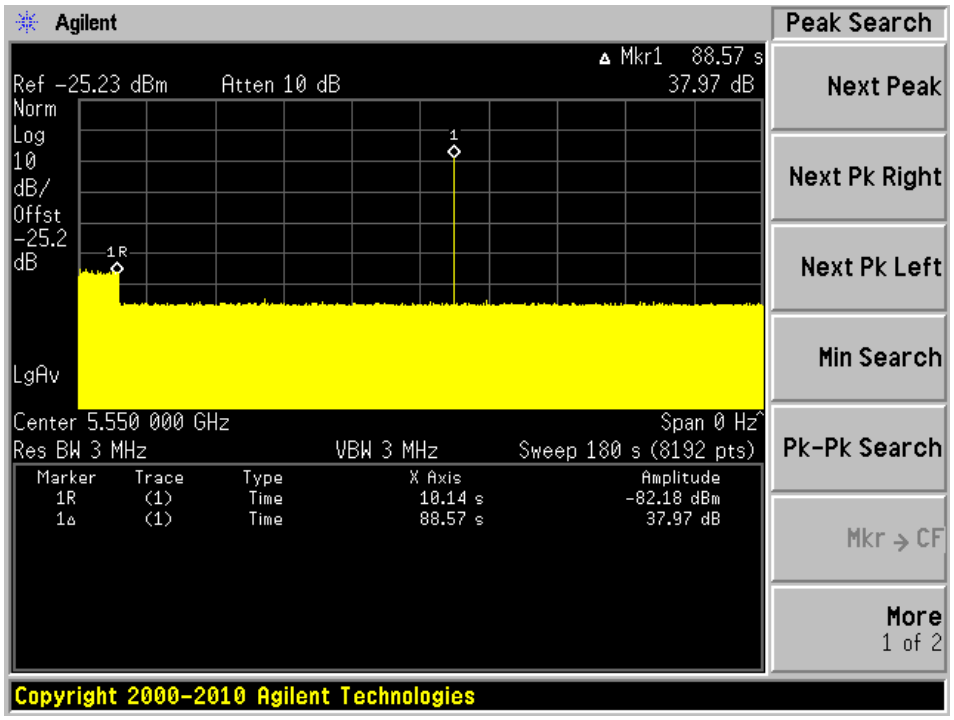
Note: *The power-up cycle is 29.44 seconds.*

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



No transmissions found after radar signal applied.

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



No transmissions found after radar signal applied.

7 Channel Move Time and Channel Closing Transmission Time

7.1 Test Procedure

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

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time = N * Dwell Time

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

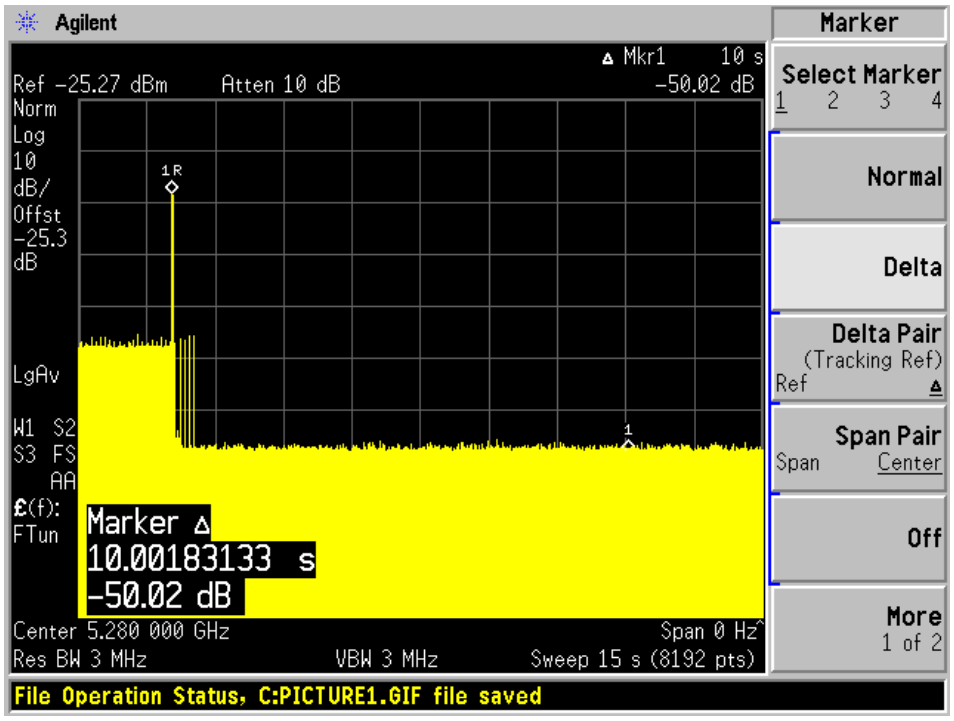
7.2 Test Results

Frequency (MHz)	Bandwidth (MHz)	Radar Type	Results
5280	20	Type 1	Compliant
		Type 5	Compliant
5580	20	Type 1	Compliant
		Type 5	Compliant
5270	40	Type 1	Compliant
		Type 5	Compliant
5550	40	Type 1	Compliant
		Type 5	Compliant

Please refer to the following tables and plots.

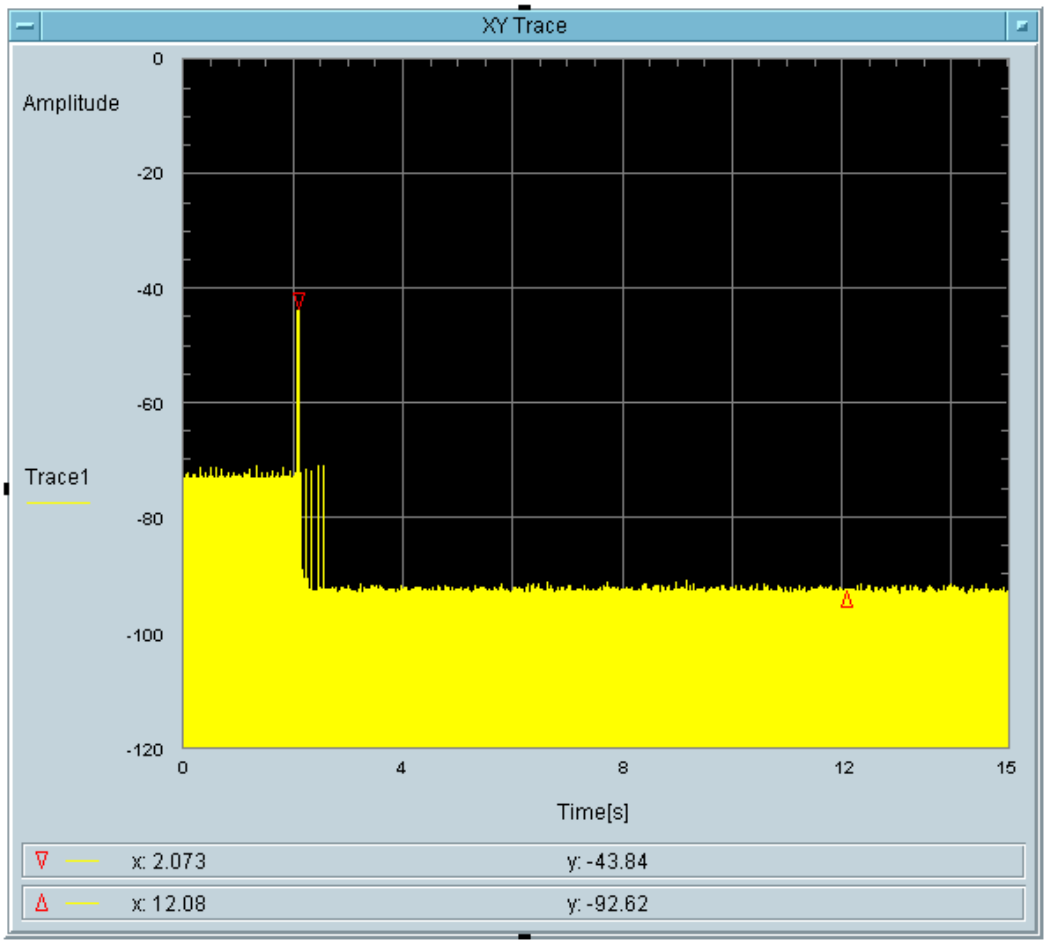
5280 MHz Bandwidth 20 MHz

Type 1 radar channel move time result:

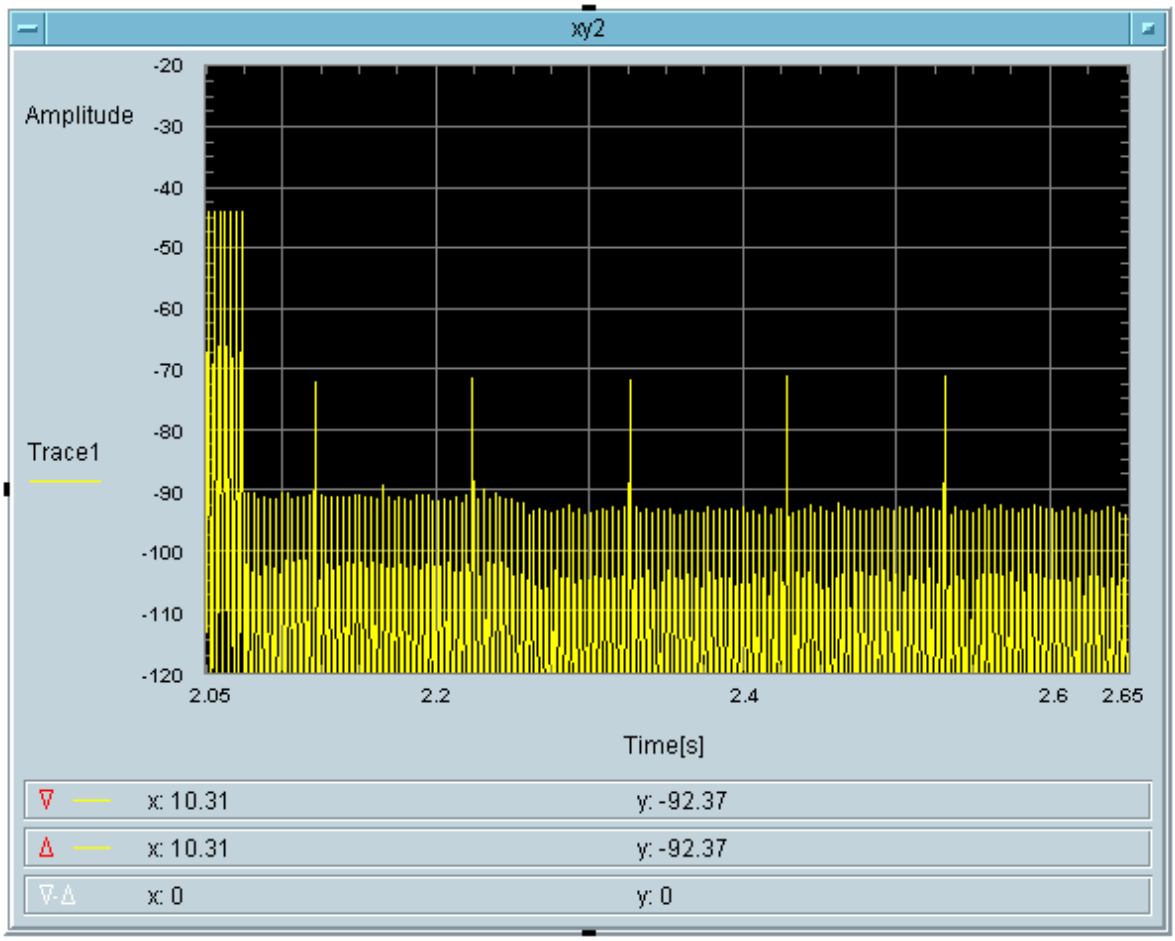


Type1 radar channel closing transmission time result:

Aggregate Transmission Time (ms)	Limit (ms)	Margin (ms)
5.493	60	54.507

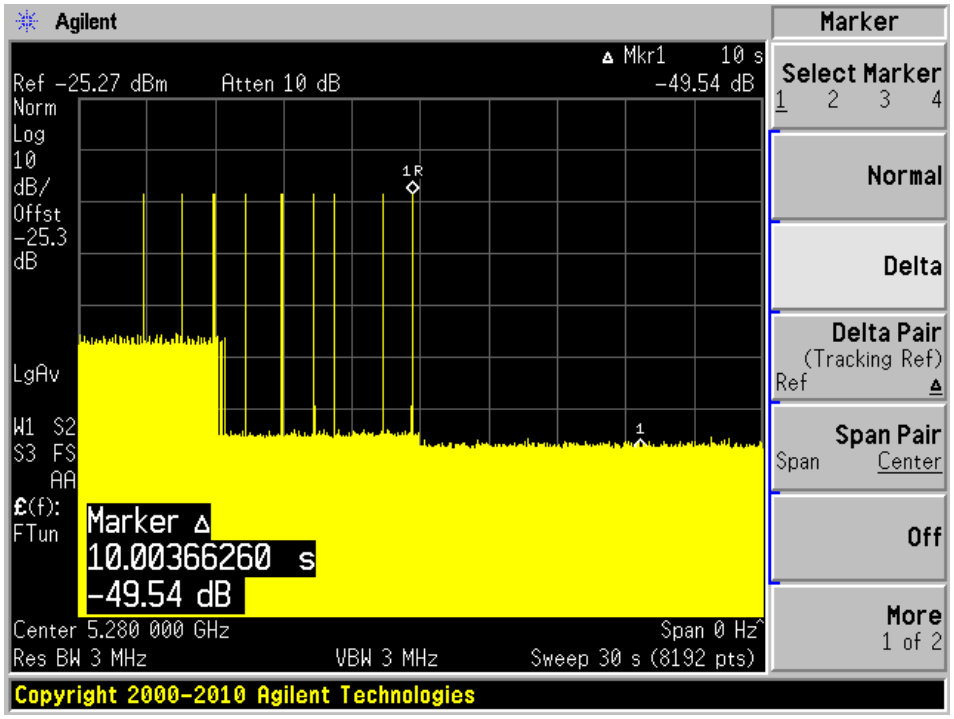


Type1 radar 600ms:



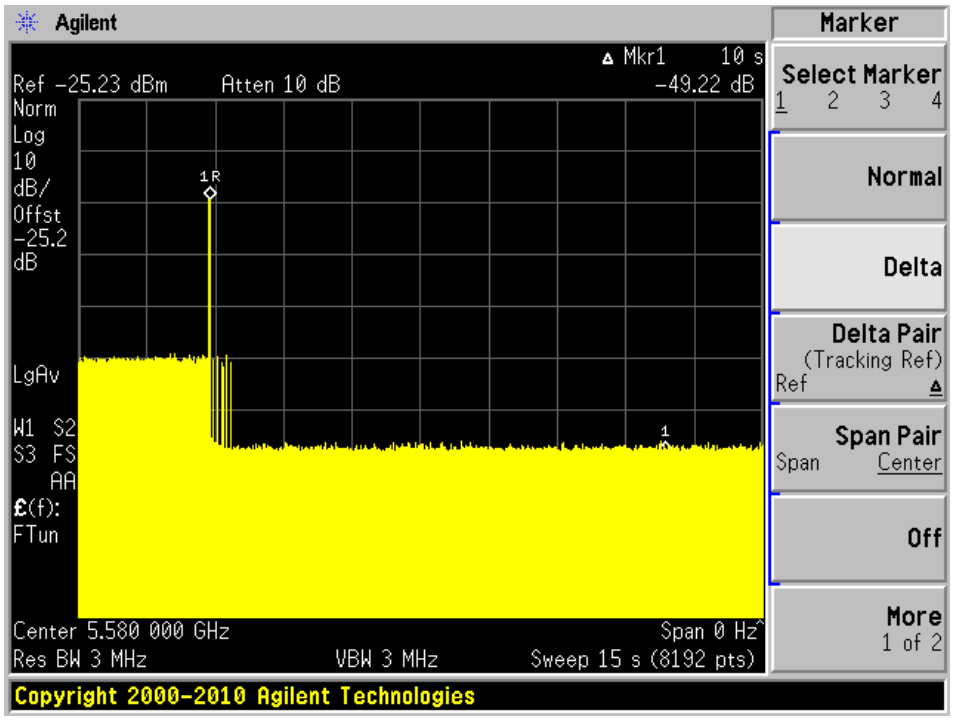
Type 5 radar channel move time result:

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.



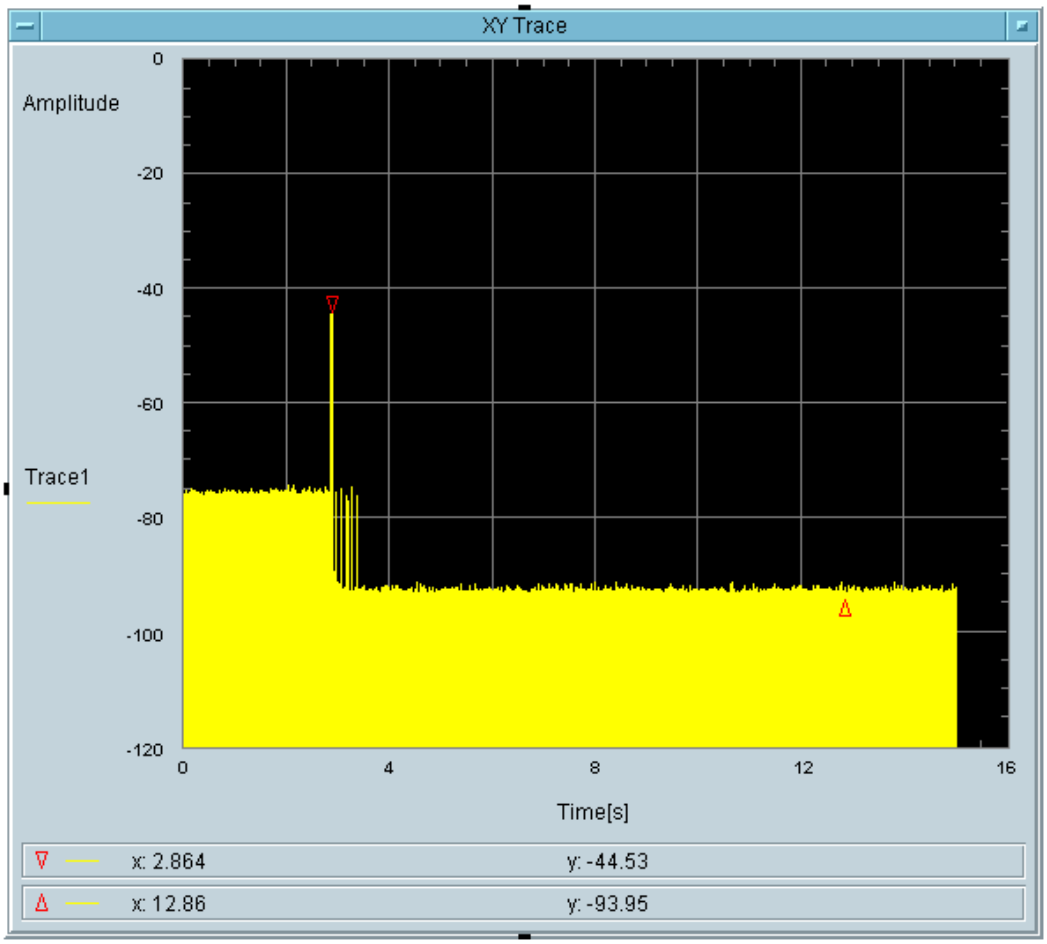
5580 MHz Bandwidth 20 MHz

Type 1 radar channel move time result:

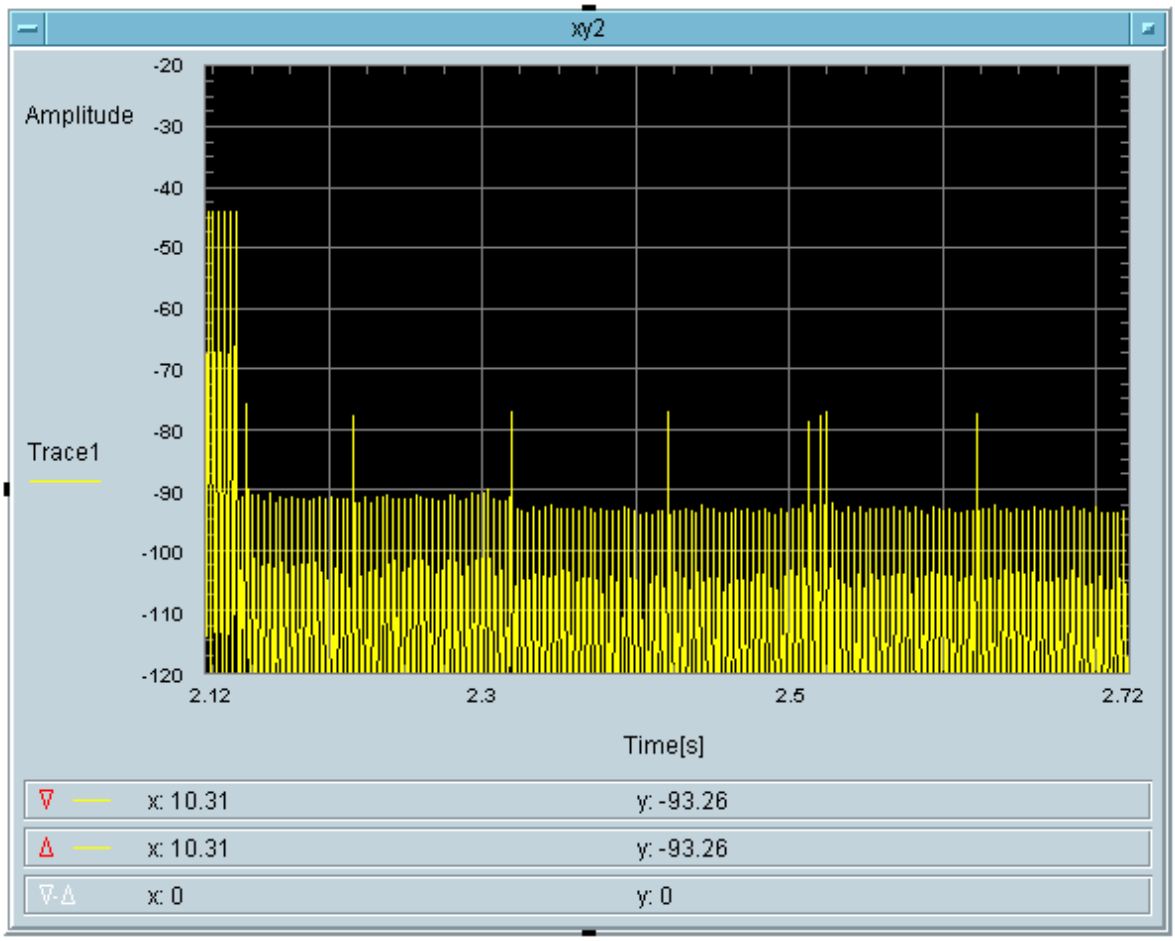


Type1 radar channel closing transmission time result:

Aggregate Transmission Time (ms)	Limit (ms)	Margin (ms)
9.766	60	59.2785

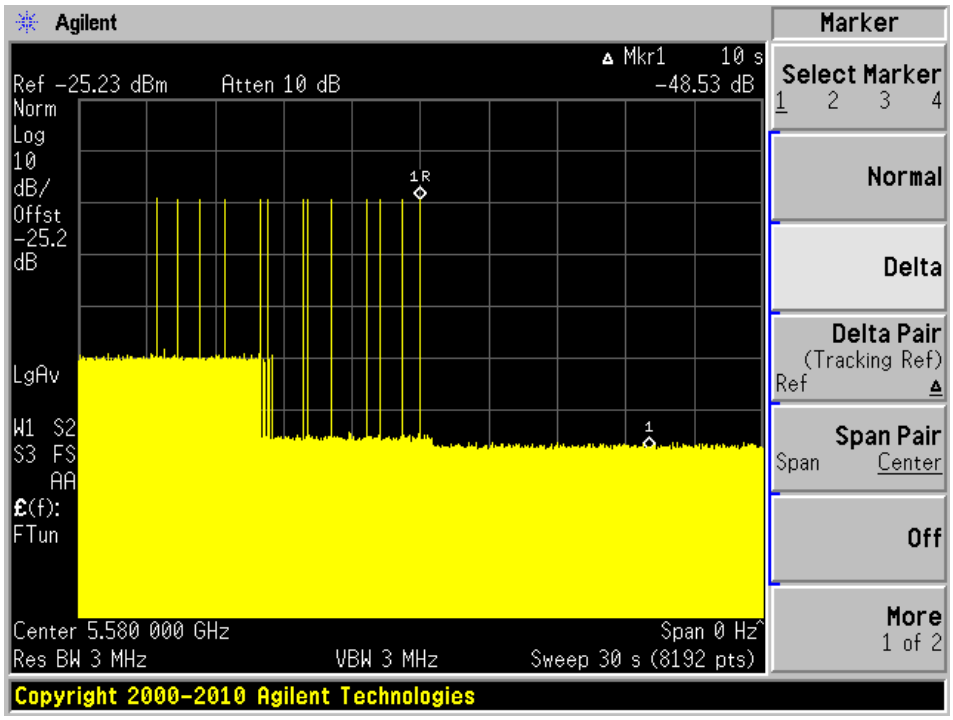


Type1 radar 600ms:



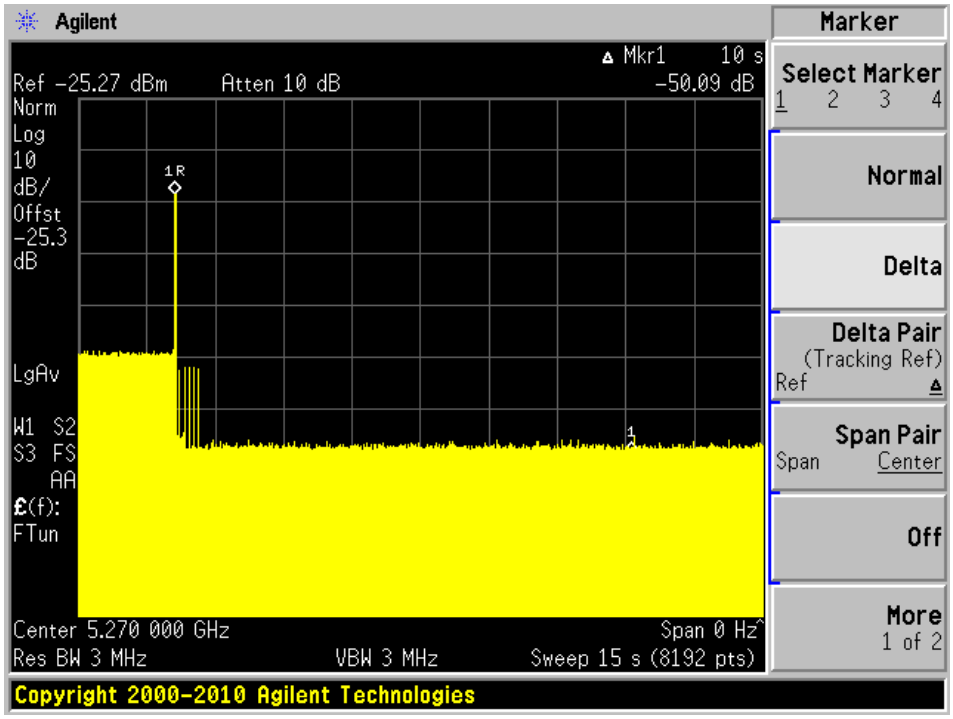
Type 5 radar channel move time result:

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.



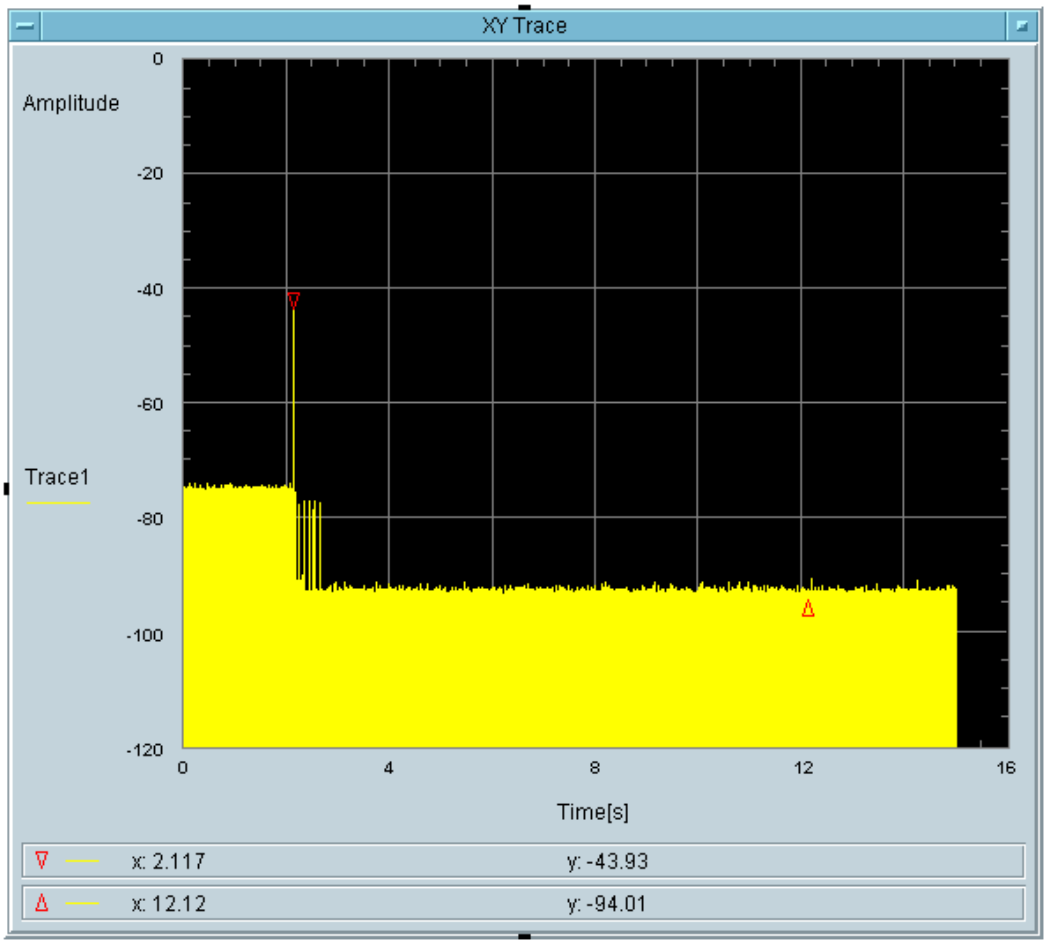
5270 MHz Bandwidth 40 MHz

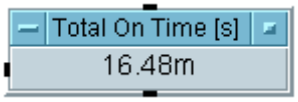
Type 1 radar channel move time result:



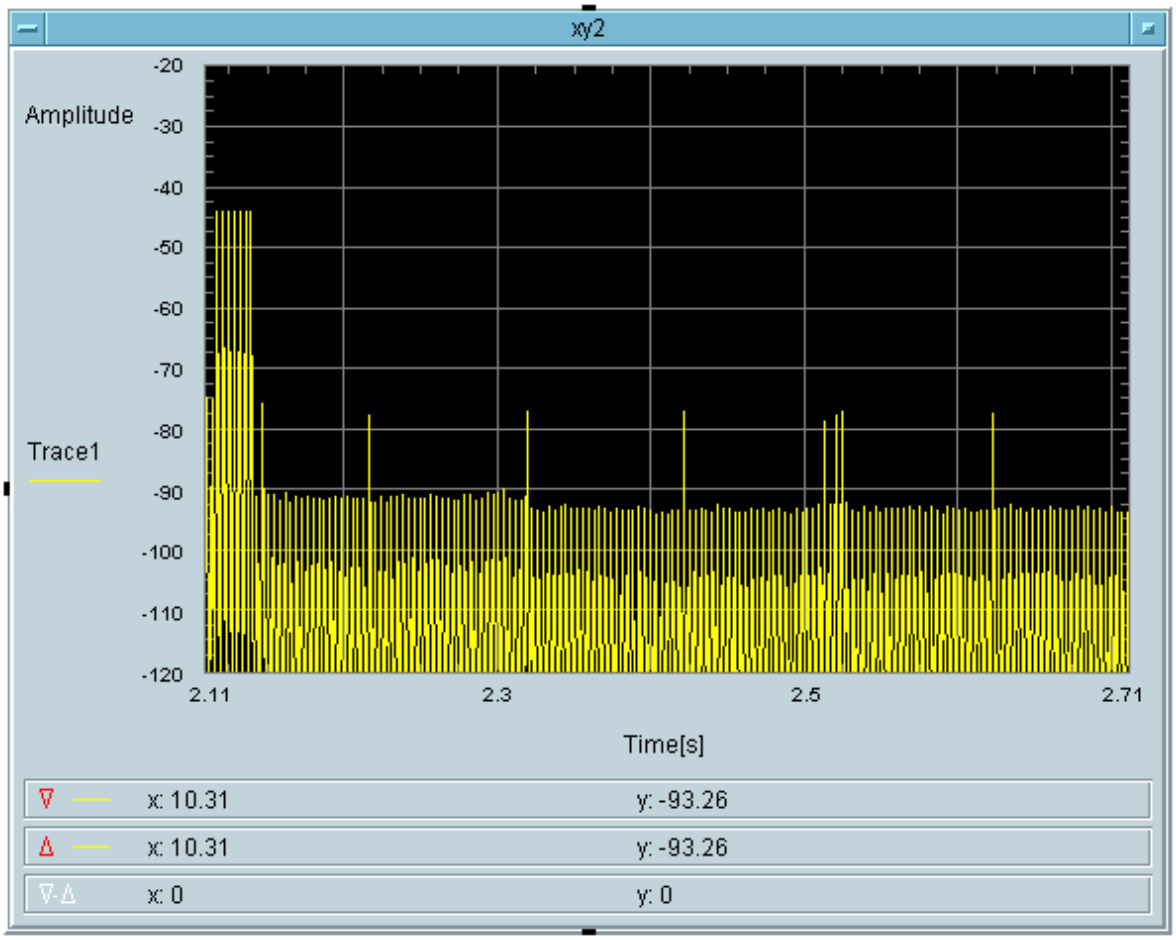
Type1 radar channel closing transmission time result:

Aggregate Transmission Time (ms)	Limit (ms)	Margin (ms)
9.156	60	50.844



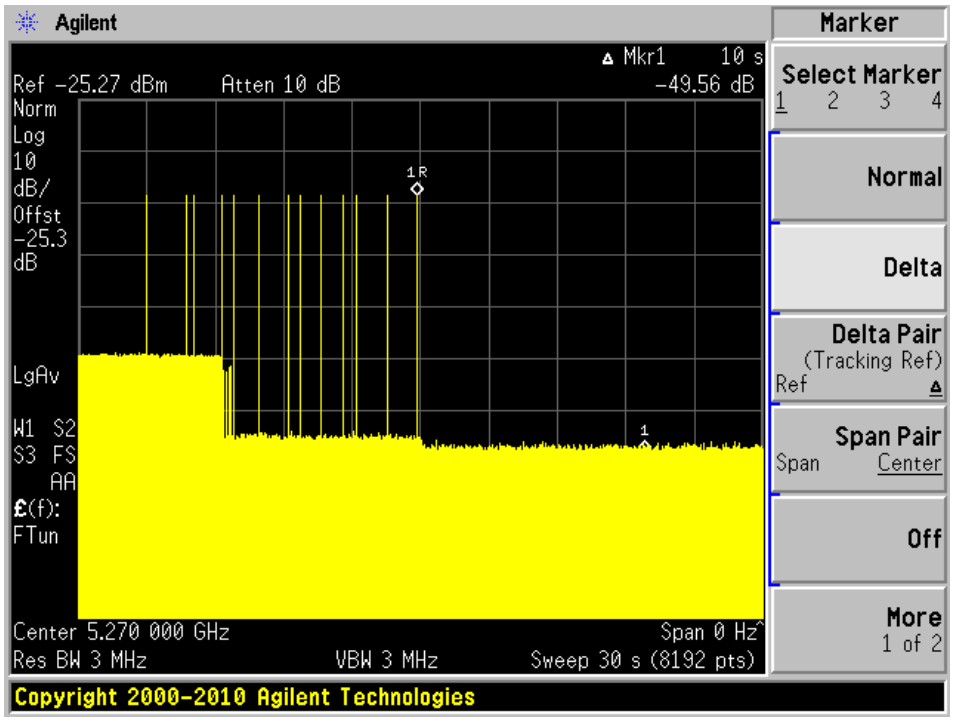


Type1 radar 600ms:



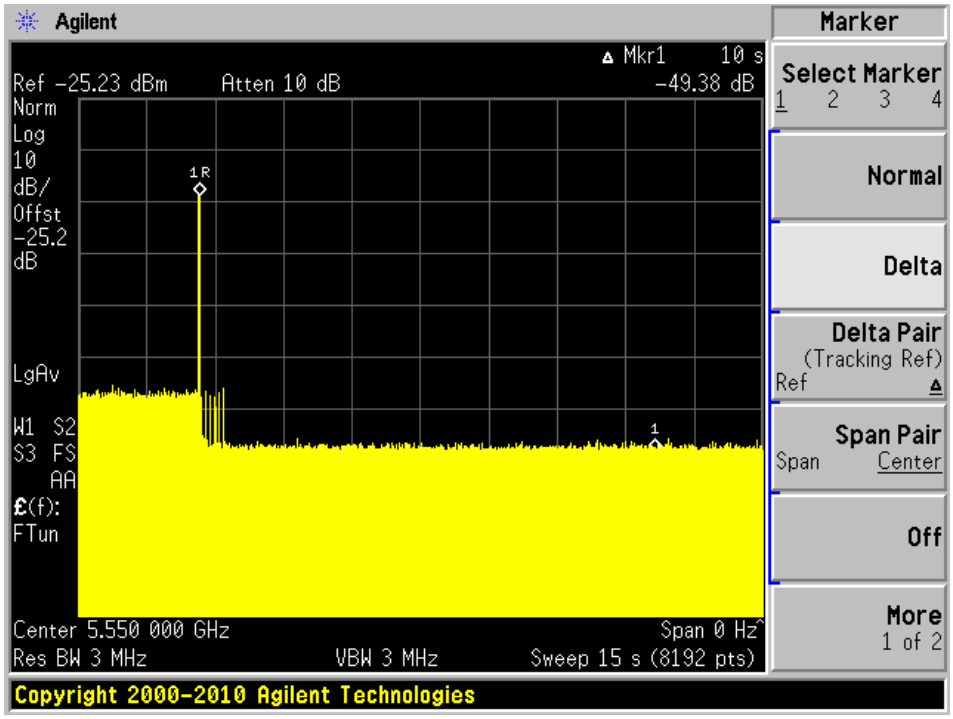
Type 5 radar channel move time result:

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.



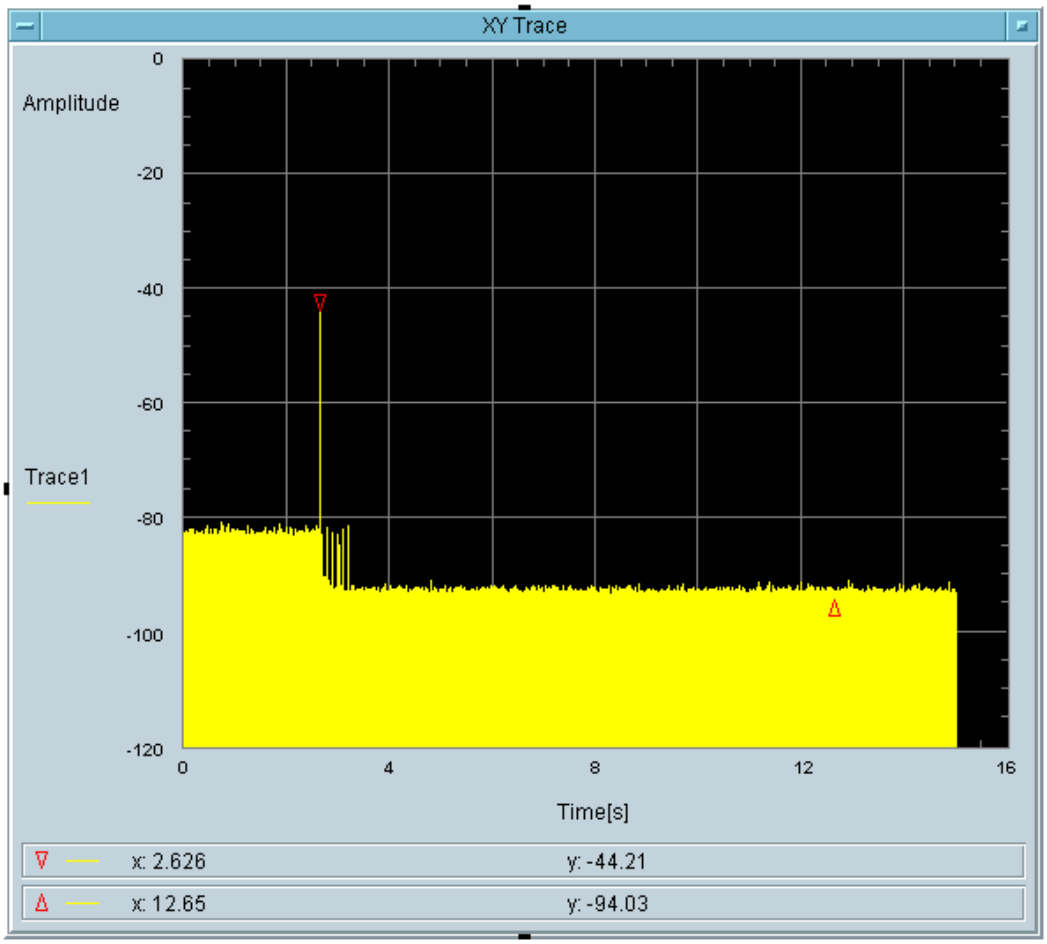
5550 MHz Bandwidth 40 MHz

Type 1 radar channel move time result:

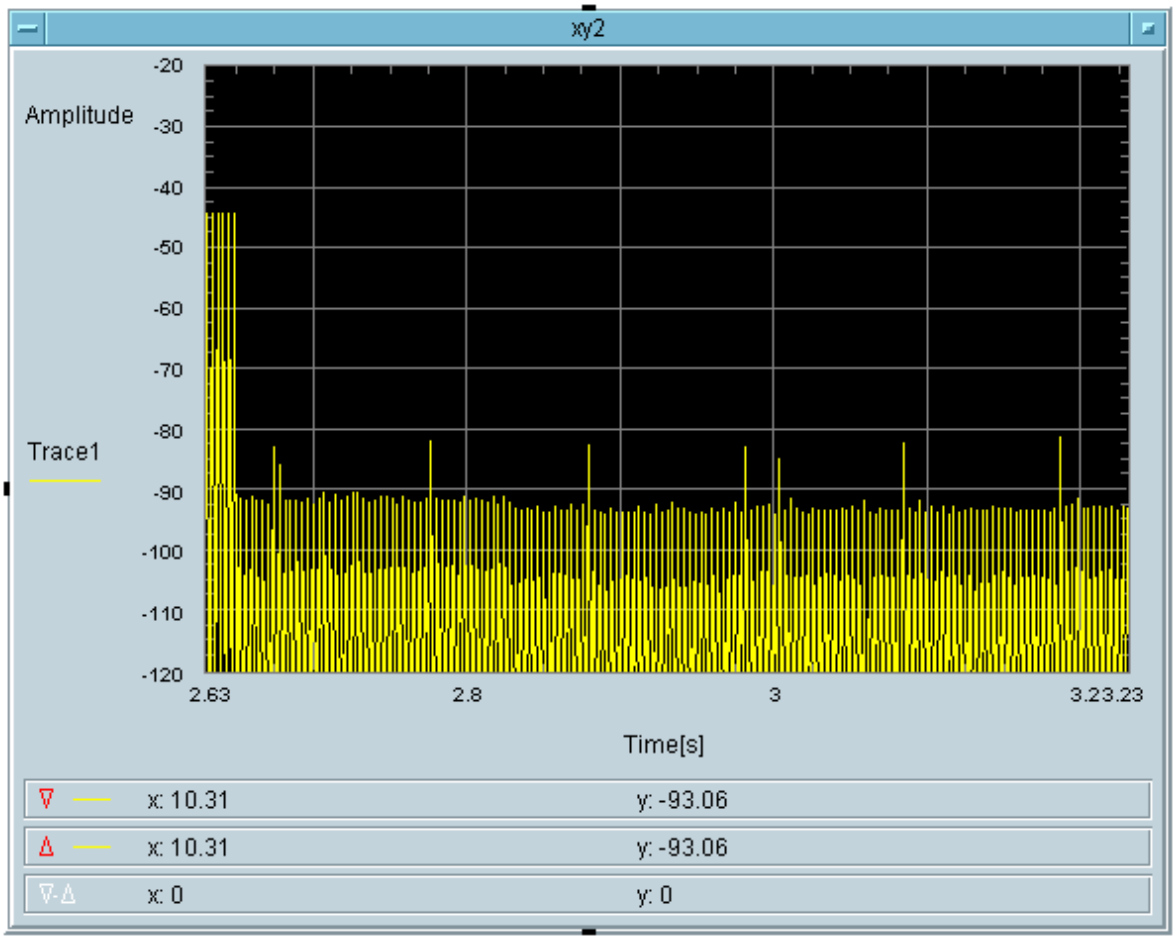


Type1 radar channel closing transmission time result:

Aggregate Transmission Time (ms)	Limit (ms)	Margin (ms)
9.156	60	50.844

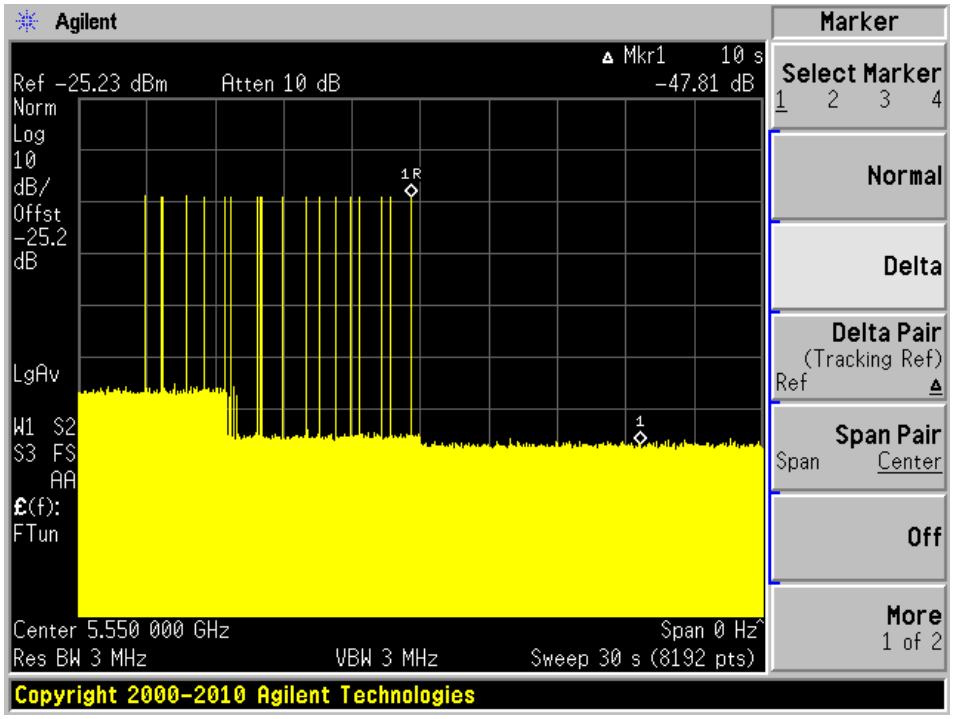


Type1 radar 600ms:



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.



8 Non-Occupancy Period

8.1 Test Procedure

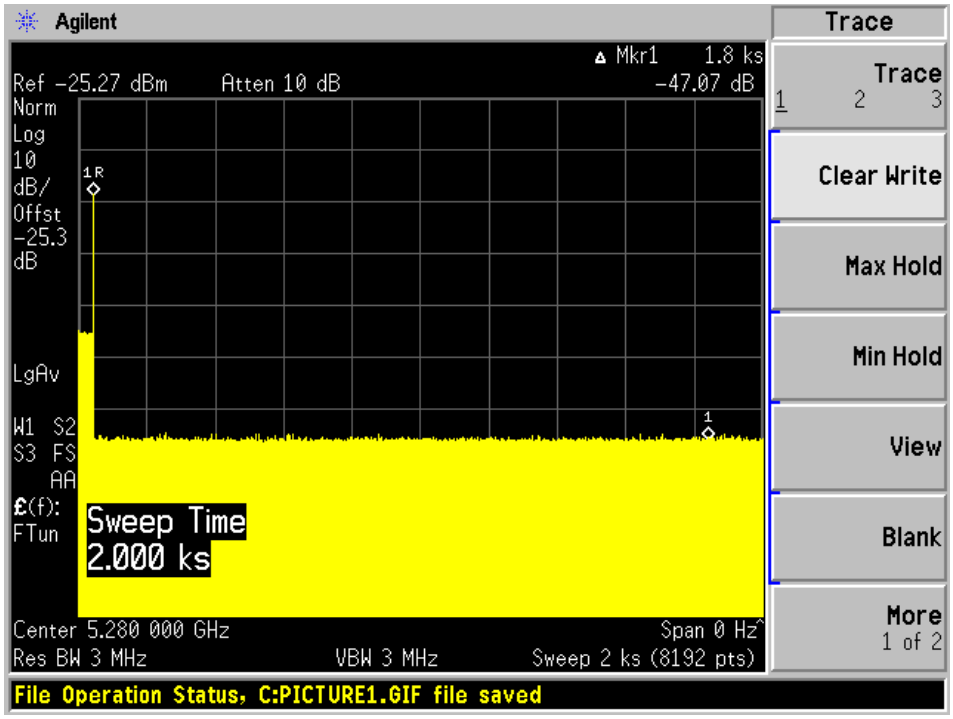
Measure the EUT for more than 30 minutes following the channel close/move time to very that the EUT does not resume any transmissions on this channel. Provide one plot to demonstrate no transmission on the channel for the non-occupancy period (30 minutes observation time)

8.2 Results

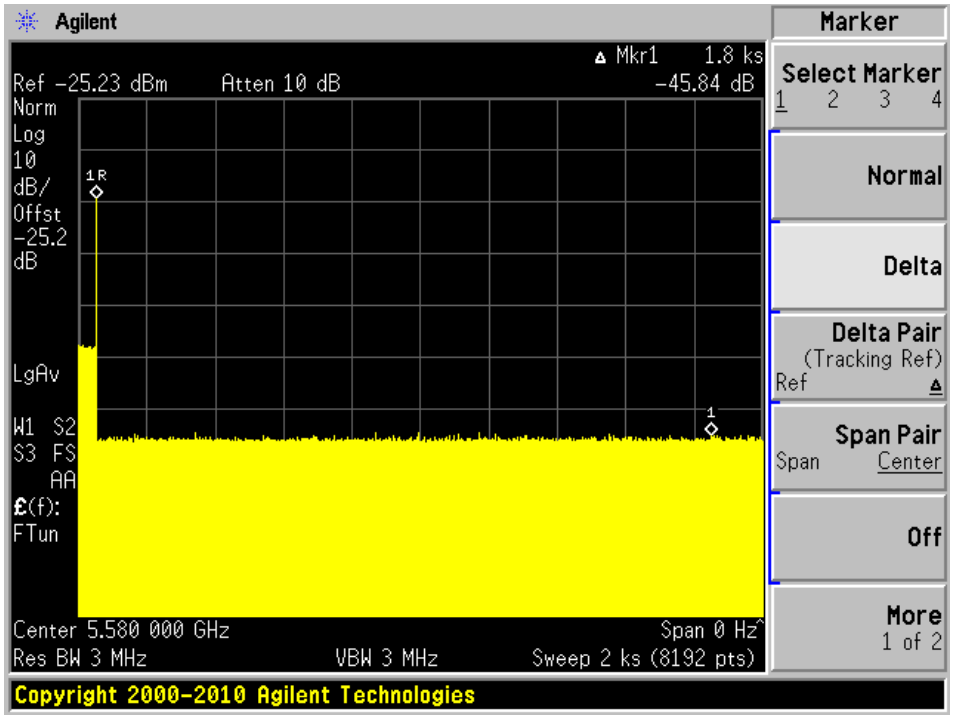
Frequency (MHz)	Bandwidth (MHz)	Spectrum Analyzer Display
5280	20	No transmission within 30 minutes
5580	20	No transmission within 30 minutes
5270	40	No transmission within 30 minutes
5550	40	No transmission within 30 minutes

Please refer to the following plots.

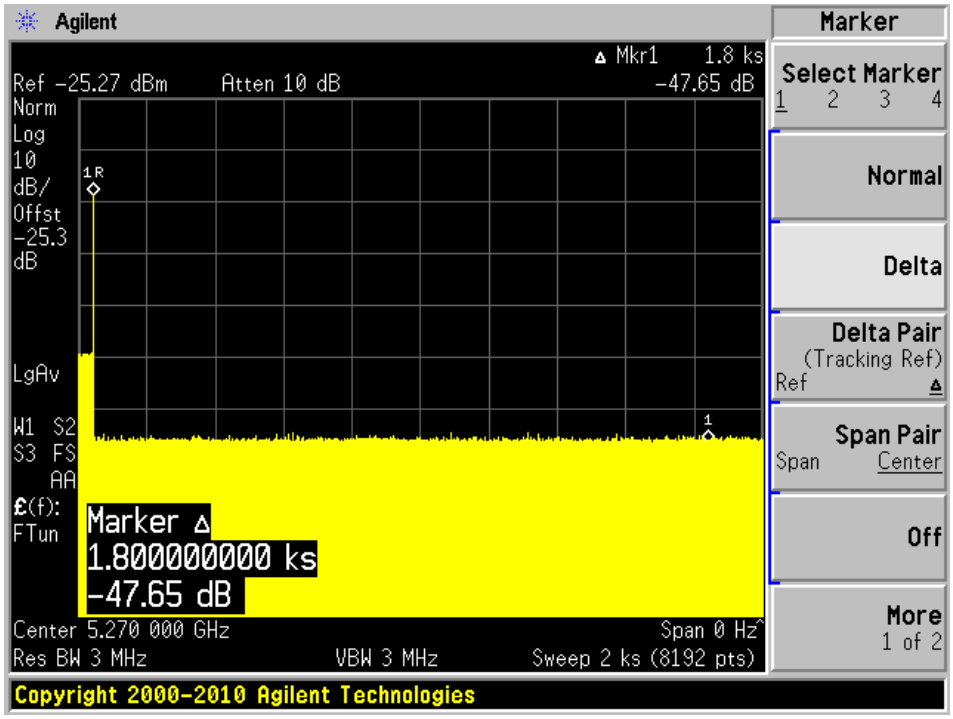
5280 MHz Bandwidth 20 MHz



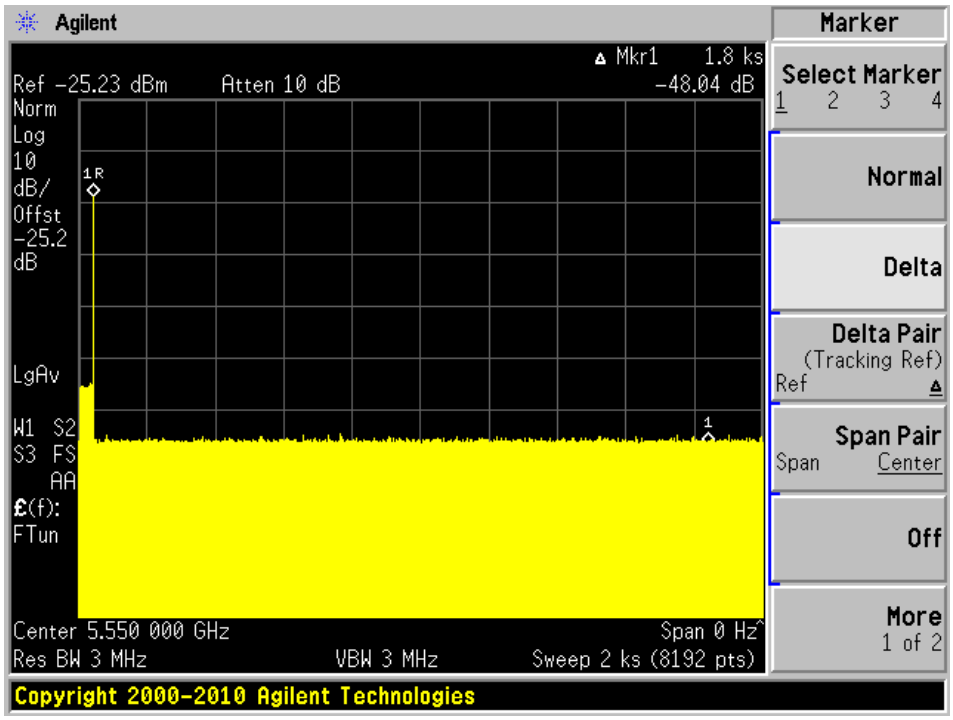
5580 MHz Bandwidth 20 MHz



5270 MHz Bandwidth 40 MHz



5550 MHz Bandwidth 40 MHz



9 Detection Bandwidth

9.1 Procedure

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

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

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

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

UNII Detection Bandwidth = F_H - F_L

9.2 Result

Frequency (MHz)	F_L (MHz)	F_H (MHz)	Detection Bandwidth (MHz)	Minimum Limit	Result
5280	5269	5291	20	80%	Compliance
5580	5569	5590	20	80%	Compliance
5270	5249	5291	40	80%	Compliance
5550	5530	5570	40	80%	Compliance

Please refer to the following tables and plots.

Results of Detection Bandwidth:

EUT Frequency = 5280 MHz											
DFS Detection Trials (1 = Detected, 0 = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5269	1	0	0	0	0	0	0	0	1	1	30%
5270(F_L)	1	0	0	0	0	0	0	0	1	1	100%
5271	1	1	1	1	1	1	1	1	1	1	100 %
5272	1	1	1	1	1	1	1	1	1	1	100 %
5273	1	1	1	1	1	1	1	1	1	1	100 %
5274	1	1	1	1	1	1	1	1	1	1	100 %
5275	1	1	1	1	1	1	1	1	1	1	100 %
5276	1	1	1	1	1	1	1	1	1	1	100 %
5277	1	1	1	1	1	1	1	1	1	1	100 %
5278	1	1	1	1	1	1	1	1	1	1	100 %
5279	1	1	1	1	1	1	1	1	1	1	100 %
5280(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5281	1	1	1	1	1	1	1	1	1	1	100 %
5282	1	1	1	1	1	1	1	1	1	1	100 %
5283	1	1	1	1	1	1	1	1	1	1	100 %
5284	1	1	1	1	1	1	1	1	1	1	100 %
5285	1	1	1	1	1	1	1	1	1	1	100 %
5286	1	1	1	1	1	1	1	1	1	1	100 %
5287	1	1	1	1	1	1	1	1	1	1	100 %
5288	1	1	1	1	1	1	1	1	1	1	100 %
5289(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5290	1	1	1	0	1	0	0	1	1	0	60%
Detection Bandwidth = $F_H - F_L$ = 5289-5270 = 19 MHz											
EUT 99% BW = 16.6 MHz; 16.6 * 80% = 13.28 MHz									**Result:**		Pass

EUT Frequency = 5580 MHz											
DFS Detection Trials (1 = Detected, Blank = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5569(F_L)	0	0	0	0	0	0	0	0	0	0	0 %
5570	1	1	1	1	1	1	1	1	1	1	100 %
5571	1	1	1	1	1	1	1	1	1	1	100 %
5572	1	1	1	1	1	1	1	1	1	1	100 %
5573	1	1	1	1	1	1	1	1	1	1	100 %
5574	1	1	1	1	1	1	1	1	1	1	100 %
5575	1	1	1	1	1	1	1	1	1	1	100 %
5576	1	1	1	1	1	1	1	1	1	1	100 %
5577	1	1	1	1	1	1	1	1	1	1	100 %
5578	1	1	1	1	1	1	1	1	1	1	100 %
5579	1	1	1	1	1	1	1	1	1	1	100 %
5580 (Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5581	1	1	1	1	1	1	1	1	1	1	100 %
5582	1	1	1	1	1	1	1	1	1	1	100 %
5583	1	1	1	1	1	1	1	1	1	1	100 %
5584	1	1	1	1	1	1	1	1	1	1	100 %
5585	1	1	1	1	1	1	1	1	1	1	100 %
5586	1	1	1	1	1	1	1	1	1	1	100 %
5587	1	1	1	1	1	1	1	1	1	1	100 %
5588	1	1	1	1	1	1	1	1	1	1	100 %
5589(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5590	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = $F_H - F_L$ = 5589-5570 = 19 MHz											
EUT 99% BW = 18.5 MHz; 18.5 * 80% = 14.8 MHz									**Result:**		Pass

EUT Frequency = 5270 MHz											
DFS Detection Trials (1 = Detected, Blank = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5249	0	0	0	0	0	0	0	0	0	0	0 %
5250(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5252	1	1	1	1	1	1	1	1	1	1	100 %
5254	1	1	1	1	1	1	1	1	1	1	100 %
5256	1	1	1	1	1	1	1	1	1	1	100 %
5258	1	1	1	1	1	1	1	1	1	1	100 %
5260	1	1	1	1	1	1	1	1	1	1	100 %
5262	1	1	1	1	1	1	1	1	1	1	100 %
5264	1	1	1	1	1	1	1	1	1	1	100 %
5266	1	1	1	1	1	1	1	1	1	1	100 %
5268	1	1	1	1	1	1	1	1	1	1	100 %
5270(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5272	1	1	1	1	1	1	1	1	1	1	100 %
5274	1	1	1	1	1	1	1	1	1	1	100 %
5276	1	1	1	1	1	1	1	1	1	1	100 %
5278	1	1	1	1	1	1	1	1	1	1	100 %
5280	1	1	1	1	1	1	1	1	1	1	100 %
5282	1	1	1	1	1	1	1	1	1	1	100 %
5284	1	1	1	1	1	1	1	1	1	1	100 %
5286	1	1	1	1	1	1	1	1	1	1	100 %
5288	1	1	1	1	1	1	1	1	1	1	100 %
5290(F_H)	0	0	0	1	0	0	0	0	0	0	10 %
5291											
Detection Bandwidth = $F_H - F_L$ = 5290-5250 = 40 MHz											
EUT 99% BW = 36.4 MHz; 36.4 * 80% = 29.12 MHz									**Result:**		Pass

EUT Frequency = 5550 MHz											
DFS Detection Trials (1 = Detected, Blank = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5530	1	1	0	1	0	0	0	0	0	0	30 %
5531(F_L)	1	1	1	1	0	1	1	1	1	1	90 %
5532	1	1	1	1	1	1	1	1	1	1	100 %
5534	1	1	1	1	1	1	1	1	1	1	100 %
5536	1	1	1	1	1	1	1	1	1	1	100 %
5538	1	1	1	1	1	1	1	1	1	1	100 %
5540	1	1	1	1	1	1	1	1	1	1	100 %
5542	1	1	1	1	1	1	1	1	1	1	100 %
5544	1	1	1	1	1	1	1	1	1	1	100 %
5546	1	1	1	1	1	1	1	1	1	1	100 %
5548	1	1	1	1	1	1	1	1	1	1	100 %
5550 (Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5552	1	1	1	1	1	1	1	1	1	1	100 %
5554	1	1	1	1	1	1	1	1	1	1	100 %
5556	1	1	1	1	1	1	1	1	1	1	100 %
5558	1	1	1	1	1	1	1	1	1	1	100 %
5560	1	1	1	1	1	1	1	1	1	1	100 %
5562	1	1	1	1	1	1	1	1	1	1	100 %
5564	1	1	1	1	1	1	1	1	1	1	100 %
5566	1	1	1	1	1	1	1	1	1	1	100 %
5568(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5569	0	0	0	0	0	0	0	0	0	0	20 %
Detection Bandwidth = $F_H - F_L$ = 5568-5531 = 37 MHz											
EUT 99% BW = 36.2 MHz; 36.2 * 80% = 28.96 MHz									**Result:**		Pass

9.3 Radar Detection

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:

20MHz

5280 MHz

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1	30	100 %	60%	Pass
Type 2	30	96.7 %	60%	Pass
Type 3	30	100 %	60%	Pass
Type 4	30	96.7 %	60%	Pass
Aggregate (Type1 to 4)	120	98.4 %	80%	Pass
Type 5	30	100 %	80%	Pass
Type 6	30	100 %	70%	Pass

Please refer to the following statistical tables:

5280MHz
Table-1 Radar Type 1 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5280	18	1	1428	1
2	5280	18	1	1428	1
3	5280	18	1	1428	1
4	5280	18	1	1428	1
5	5280	18	1	1428	1
6	5280	18	1	1428	1
7	5280	18	1	1428	1
8	5280	18	1	1428	1
9	5280	18	1	1428	1
10	5280	18	1	1428	1
11	5280	18	1	1428	1
12	5280	18	1	1428	1
13	5280	18	1	1428	1
14	5280	18	1	1428	1
15	5280	18	1	1428	1
16	5280	18	1	1428	1
17	5280	18	1	1428	1
18	5280	18	1	1428	1
19	5280	18	1	1428	1
20	5280	18	1	1428	1
21	5280	18	1	1428	1
22	5280	18	1	1428	1
23	5280	18	1	1428	1
24	5280	18	1	1428	1
25	5280	18	1	1428	1
26	5280	18	1	1428	1
27	5280	18	1	1428	1
28	5280	18	1	1428	1
29	5280	18	1	1428	1
30	5280	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	5280	29	4.7	186	1
2	5280	24	3.4	220	1
3	5280	23	4.4	188	1
4	5280	28	3.6	226	1
5	5280	29	2.4	186	1
6	5280	24	3.5	214	1
7	5280	29	3.5	166	1
8	5280	25	2	165	1
9	5280	24	2.7	193	1
10	5280	24	3.9	221	1
11	5280	29	3	154	1
12	5280	25	2.9	186	1
13	5280	26	2.7	156	1
14	5280	24	2.7	212	1
15	5280	29	1.2	163	1
16	5280	26	1	182	1
17	5280	24	3.2	229	1
18	5280	23	1.3	226	1
19	5280	25	5	163	0
20	5280	29	4.9	154	1
21	5280	26	2	218	1
22	5280	24	1.1	182	1
23	5280	26	2.4	156	1
24	5280	28	1.5	208	1
25	5280	25	3.3	218	1
26	5280	23	4.8	164	1
27	5280	24	1.4	223	1
28	5280	28	2.1	226	1
29	5280	27	2.9	191	1
30	5280	23	1.9	210	1
Detection Percentage: 96.7 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5280	18	6.9	347	1
2	5280	18	9.6	362	1
3	5280	18	9.6	262	1
4	5280	17	9.6	202	1
5	5280	18	9.8	301	1
6	5280	17	8.8	334	1
7	5280	17	6.1	455	1
8	5280	16	8.1	407	1
9	5280	17	7.1	285	1
10	5280	18	6.9	253	1
11	5280	18	9.4	253	1
12	5280	16	7.3	478	1
13	5280	17	6.6	306	1
14	5280	16	8.8	417	1
15	5280	16	9.6	387	1
16	5280	18	7.8	345	1
17	5280	18	6.3	490	1
18	5280	16	10	492	1
19	5280	17	9.6	314	1
20	5280	17	7.9	240	1
21	5280	18	8.4	308	1
22	5280	16	7.6	423	1
23	5280	16	6.7	235	1
24	5280	17	9.9	327	1
25	5280	17	7.2	236	1
26	5280	18	6.1	353	1
27	5280	16	7.5	306	1
28	5280	17	9.3	425	1
29	5280	16	9.7	397	1
30	5280	17	7.5	444	1
Detection Percentage: 100 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5280	16	15.2	409	1
2	5280	14	11.3	482	1
3	5280	14	19.6	420	1
4	5280	13	13.2	232	0
5	5280	12	11	489	1
6	5280	16	11.7	215	1
7	5280	16	14.6	295	1
8	5280	15	11.5	477	1
9	5280	15	15.5	316	1
10	5280	12	11	305	1
11	5280	16	14.5	242	1
12	5280	16	14.8	273	1
13	5280	13	11.3	440	1
14	5280	15	18.8	473	1
15	5280	12	15.9	482	1
16	5280	12	13.7	271	1
17	5280	16	20	228	1
18	5280	13	18.5	290	1
19	5280	14	12.3	439	1
20	5280	15	19.8	448	1
21	5280	16	14.1	329	1
22	5280	12	12.8	241	1
23	5280	14	12.8	454	1
24	5280	14	15.6	392	1
25	5280	14	14	392	1
26	5280	15	17.3	303	1
27	5280	15	19.7	404	1
28	5280	14	11.1	235	1
29	5280	16	11	468	1
30	5280	15	18.4	328	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	2	11	58	1055		0.659091	
1	2	17	99.4	1078		0.712133	
2	3	11	88.2	1651	1945	1.576023	
3	2	19	93.2	1288		2.260729	
4	2	13	74.9	1847		3.446625	
5	3	14	75.2	1327	1543	4.15296	
6	2	10	53.5	1619		4.857481	
7	3	13	52.9	1350	1416	4.996725	
8	2	5	58.4	1476		5.95414	1
9	1	10	67.1			6.813823	
10	2	14	89.8	1426		7.649879	
11	1	9	72.4			8.185982	
12	2	11	87.8	1720		8.495826	
13	2	11	74.5	1731		9.360047	
14	3	8	50.6	1527	1407	10.18373	
15	2	20	73.8	1595		10.84056	
16	3	17	79.8	1601	1051	11.91682	

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	12	58.8			0.001138	
1	1	17	57.3			1.830294	
2	3	12	82.5	1607	1800	2.099287	
3	3	10	51.7	1647	1321	3.453509	
4	1	13	88.1			4.426649	
5	2	13	58	1657		5.247739	
6	1	6	95.4			6.333686	1
7	1	11	79.6			7.112214	
8	2	7	87.8	1124		8.002439	
9	2	16	87.8	1126		8.979243	
10	2	12	94.5	1028		9.594875	
11	1	7	64.8			10.80429	
12	3	19	90.9	1629	1787	11.54285	

Bin5 Statistics 3

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	18	94.5			0.86421	
1	2	11	100	1849		1.143761	
2	1	9	50.2			2.38446	
3	2	7	60.5	1143		3.318841	
4	2	17	85.6	1129		4.541962	
5	3	7	75	1379	1051	5.366429	
6	1	15	72.2			5.572192	1
7	2	9	54.4	1549		7.317777	
8	1	9	61.4			7.481574	
9	2	9	94.6	1306		8.763759	
10	2	13	87.8	1562		9.637855	
11	2	9	66	1404		10.21595	
12	1	19	65			11.69063	

Bin5 Statistics 4

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	7	81	1032		1.008651	
1	2	5	68.9	1774		1.643306	
2	3	12	82.9	1585	1558	2.438605	
3	1	18	83.7			3.848188	
4	1	6	99.3			4.921399	1
5	3	6	70.4	1750	1200	6.588822	
6	2	13	97.3	1999		7.601769	
7	3	16	77.2	1175	1742	8.685132	
8	2	14	80.4	1675		10.32139	
9	2	8	80	1889		11.21881	

Bin5 Statistics 5

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	12	93.7			0.528057	
1	1	17	99.3			1.108445	
2	3	20	99.2	1609	1648	1.565779	
3	2	17	69.7	1778		2.353341	
4	1	18	69.3			3.154248	
5	2	15	63.5	1747		3.26277	
6	1	18	62.3			4.009623	
7	1	15	70.4			4.948144	
8	2	6	94.1	1882		5.507216	
9	3	19	54.4	1002	1169	5.692935	1
10	2	10	56.7	1336		6.934513	
11	2	18	91.3	1834		7.467732	
12	1	13	66.4			7.666411	
13	2	16	87.6	1032		8.658296	
14	2	13	90.1	1024		9.31724	
15	1	12	60.2			9.981472	
16	1	12	99.1			10.13624	
17	3	8	57.4	1636	1230	10.84349	
18	2	6	55.3	1656		11.46775	

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	9	66.2			0.469084	
1	1	13	96.8			1.019826	
2	3	8	55.2	1562	1066	1.532597	
3	1	8	67.9			2.019405	
4	3	12	68.8	1882	1698	2.58398	
5	1	14	99.2			3.635617	
6	3	12	83	1550	1709	4.149345	
7	3	14	74.4	1813	1805	4.679412	
8	1	15	76.4			5.211471	
9	2	7	74.9	1763		6.299087	1
10	1	13	76.2			6.484216	
11	3	16	78.1	1359	1759	7.458016	
12	1	13	55.5			7.661232	
13	3	16	89.3	1713	1533	8.622484	
14	1	11	90.5			9.201654	
15	1	17	88.6			9.986226	
16	2	16	69.6	1204		10.59186	
17	1	6	65.9			11.21302	
18	2	12	50.8	1482		11.47583	

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	12	82.8	1264		0.666219	
1	2	6	76.4	1081		1.131174	
2	3	19	76.5	1125	1576	2.447175	
3	2	11	62.9	1168		3.472514	
4	2	17	83.5	1784		4.526301	
5	1	7	60.6			4.845961	
6	2	10	85.6	1251		6.017996	1
7	2	14	77.3	1150		6.579733	
8	1	7	61.7			8.098132	
9	2	13	89.2	1893		9.109114	
10	3	19	88.5	1607	1476	9.47934	
11	2	15	81.9	1689		10.9794	
12	2	17	75.8	1275		11.80699	

Bin5 Statistics 8

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	11	92.7	1768		0.290827	
1	1	12	88.9			1.061198	
2	2	7	58.2	1367		2.870448	
3	3	8	92.1	1124	1115	3.866519	
4	2	6	99	1134		4.600699	
5	1	15	89			5.163474	
6	1	6	88.8			6.521693	1
7	3	18	50.7	1819	1604	7.044703	
8	2	13	67.1	1121		8.32216	
9	3	14	53.8	1213	1060	9.101978	
10	1	17	68.5			10.0146	
11	1	12	66.6			11.57138	

Bin5 Statistics 9

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	7	96.3	1339		0.404249	
1	2	8	84.1	1164		0.923438	
2	3	7	66.9	1641	1763	1.561703	
3	2	10	86.5	1760		2.147541	
4	2	18	75.5	1562		2.544173	
5	3	6	63	1969	1875	3.621557	
6	1	18	82			4.364476	
7	2	16	90	1313		5.001489	
8	2	12	63.9	1275		5.511423	
9	1	11	84			6.270379	1
10	3	8	96.3	1556	1182	6.806025	
11	2	14	96	1401		7.398482	
12	2	12	68.2	1739		7.821007	
13	2	11	59.6	1423		8.670411	
14	2	12	74.5	1985		8.946739	
15	1	6	89.1			9.633708	
16	3	9	83.7	1181	1139	10.36816	
17	2	14	63.5	1574		11.21239	
18	2	8	93.9	1304		11.53142	

Bin5 Statistics 10

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	14	67			0.847435	
1	2	17	94.2	1808		1.802583	
2	1	12	70.6			2.636058	
3	3	10	71.2	1906	1670	3.510225	
4	1	15	74.3			3.763484	
5	3	7	64.1	1490	1656	5.175458	
6	1	16	53.3			5.968542	1
7	2	13	66.8	1842		6.59089	
8	2	16	97.2	1289		7.802253	
9	1	13	67.2			9.161032	
10	3	8	66.2	1366	1284	9.98486	
11	2	16	82.3	1762		10.56622	
12	2	16	64.6	1021		11.98279	

Bin5 Statistics 11

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	12	79.2	1153	1712	0.77173	
1	3	15	57.5	1055	1727	1.321783	
2	2	12	75	1896		1.953192	
3	2	20	85.5	1207		2.824538	
4	1	6	94.5			3.797742	
5	2	8	67.7	1188		4.726566	
6	1	13	55.5			5.542586	
7	3	7	61.8	1129	1600	5.627734	1
8	2	19	93	1411		6.97443	
9	2	18	69.4	1949		7.787114	
10	2	18	52.5	1991		8.191689	
11	2	13	62.2	1209		9.546381	
12	2	7	92.5	1509		9.620743	
13	2	10	91.9	1287		10.59406	
14	2	15	99.8	1111		11.69554	

Bin5 Statistics 12

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	14	76.9	1539	1442	0.555912	
1	2	6	99.7	1316		1.971629	
2	2	19	55.2	1851		3.22517	
3	3	14	82	1912	1332	4.468314	
4	1	12	73			6.486852	1
5	2	16	70.3	1118		6.801064	
6	2	20	64.1	1476		8.8353	
7	3	15	53.5	1580	1555	10.36499	
8	1	16	69.1			11.05791	

Bin5 Statistics 13

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	13	94.9	1447		0.801412	
1	2	10	97	1367		1.702918	
2	2	6	98.5	1650		2.962932	
3	3	7	99.1	1812	1150	4.067777	
4	1	10	53.8			5.001664	
5	2	11	52.5	1351		5.467519	1
6	2	14	92.8	1912		7.474495	
7	2	9	58	1469		8.456817	
8	1	12	72.3			9.193707	
9	2	7	54.7	1215		10.12999	
10	2	12	56.5	1715		11.13799	

Bin5 Statistics 14

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	17	59.3			0.52577	
1	1	6	97			1.087532	
2	1	19	97.7			2.015198	
3	1	14	69.4			2.939314	
4	3	15	74.6	1129	1667	3.359129	
5	2	20	84.5	1768		3.847088	
6	1	11	69.1			4.803966	
7	1	13	91			5.622997	
8	2	6	51.2	1123		6.0949	1
9	1	11	73.8			7.253617	
10	1	9	54.3			7.771565	
11	1	14	52.4			8.394227	
12	2	8	56.2	1718		9.60569	
13	1	7	56.4			10.27047	
14	2	18	56.3	1816		10.88546	
15	2	15	64.6	1883		11.78247	

Bin5 Statistics 15

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	18	74.8			0.823061	1
1	3	15	96.3	1110	1517	1.588056	
2	2	19	50.4	1516		3.332016	
3	2	9	98.8	1487		3.661305	
4	2	9	93.5	1604		5.568157	
5	1	19	60.6			6.893529	
6	2	16	76.4	1010		8.168338	
7	2	17	91.5	1768		9.272591	
8	1	20	77.9			10.36085	
9	2	5	78.4	1942		11.56192	

Bin5 Statistics 16

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	12	84	1090	1460	0.581752	1
1	1	11	84.6			1.267757	
2	2	8	50.5	1402		2.827827	
3	1	14	64.2			3.719255	
4	3	16	88.1	1889	1532	4.670163	
5	1	6	74.6			6.490417	
6	2	19	72	1887		7.358093	
7	1	17	57.3			8.302224	
8	2	15	58.6	1536		9.220968	
9	2	20	71.7	1486		10.15974	

Bin5 Statistics 17

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	5	85.5	1995		0.659421	1
1	3	16	85.7	1219	1631	1.371038	
2	2	6	51	1108		1.577686	
3	2	8	81	1593		2.612485	
4	2	19	62.8	1188		3.019729	
5	2	6	81.3	1483		4.069596	
6	2	6	84.7	1651		5.05934	
7	2	14	51.1	1995		5.844709	
8	3	17	73.7	1394	1866	6.309187	
9	3	19	89.7	1545	1268	6.904649	
10	2	15	89.7	1064		7.916342	
11	1	7	57.5			8.425014	
12	3	19	65.5	1652	1929	9.176254	
13	1	6	62.3			10.25737	
14	2	11	97.7	1482		11.07322	
15	2	12	79.6	1521		11.65711	

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	18	77.1			0.833229	1
1	2	15	82.1	1430		1.251039	
2	2	9	63.4	1507		3.12297	
3	3	11	61.7	1261	1928	3.692014	
4	2	13	97.2	1667		5.261088	
5	3	13	72.2	1303	1154	6.646233	
6	2	7	77.2	1986		7.554818	
7	2	6	75.5	1057		9.217527	
8	2	8	89.4	1335		9.823353	

Bin5 Statistics 19

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	6	98.8	1940		0.425195	
1	3	18	60.4	1055	1702	1.332506	
2	1	19	50.7			2.19736	
3	1	11	86.5			2.546906	
4	1	16	69.4			3.445006	
5	3	13	98.1	1173	1694	4.707287	
6	3	5	93.7	1108	1872	5.121801	
7	2	13	55.5	1881		6.108753	1
8	3	17	89.2	1426	1167	6.653156	
9	2	16	69.9	1901		7.782388	
10	2	14	61.2	1133		8.082282	
11	3	12	83.4	1772	1174	8.936165	
12	3	9	98.2	1190	1528	9.667696	
13	2	19	87.7	1239		11.03399	
14	3	19	54.6	1419	1088	11.69435	

Bin5 Statistics 20

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	5	63.1	1436		0.546814	
1	1	17	56.6			1.325067	
2	2	19	55.2	1304		2.319977	
3	2	11	74.3	1821		3.474111	
4	2	10	56.4	1558		3.869454	
5	3	10	61.5	1489	1615	5.31347	
6	3	6	86.2	1019	1753	6.131657	1
7	2	12	92	1790		6.888467	
8	3	12	97.5	1419	1480	7.775267	
9	3	15	58	1235	1358	8.682853	
10	2	5	82.1	1960		9.859753	
11	1	12	98.6			10.36967	
12	3	9	57.2	1150	1532	11.36768	

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	13	52.8	1587	1445	0.377889	
1	3	17	64.7	1583	1487	0.804062	
2	1	5	94.5			1.761253	
3	1	10	55.1			2.885303	
4	1	10	83.1			3.379472	
5	2	10	65.7	1529		4.133515	
6	2	17	55.3	1875		4.993598	
7	1	13	70			5.935669	
8	2	15	87.6	1416		6.392251	1
9	3	5	94.8	1002	1853	6.8196	
10	2	5	51.2	1082		7.72227	
11	3	19	75.9	1209	1879	8.899239	
12	3	15	71.5	1447	1058	9.324991	
13	3	14	62.3	1416	1732	9.863293	
14	1	16	54.3			11.24167	
15	1	7	65.3			11.61305	

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	8	74.4	1313		0.233487	
1	2	8	54.1	1238		1.385108	
2	2	13	69.7	1698		2.234462	
3	1	15	57.6			3.747656	
4	2	6	77.7	1958		4.312418	
5	1	15	86.3			5.977262	
6	2	18	60.8	1605		6.143138	1
7	2	15	55.1	1992		7.483627	
8	3	19	68.4	1724	1355	8.938207	
9	1	15	96.6			9.205651	
10	3	8	96.1	1446	1637	10.00186	
11	3	13	59.8	1549	1450	11.39849	

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	71.4	1068	1082	0.606131	
1	2	14	69.7	1828		0.924179	
2	1	14	68.4			1.45288	
3	1	9	80.2			2.255851	
4	2	18	77.3	1076		2.859438	
5	1	11	86.5			3.984184	
6	2	10	89.8	1162		4.723967	
7	3	17	78.9	1399	1329	5.106864	
8	1	19	68.6			5.75348	1
9	3	14	84.9	1150	1589	6.831191	
10	2	12	88.7	1670		7.57135	
11	1	8	55.6			8.463475	
12	2	14	88.2	1654		8.677155	
13	1	17	59.8			9.856744	
14	2	13	81.3	1441		10.41683	
15	1	6	81.8			11.07458	
16	2	8	72	1410		11.63461	

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	19	86.2			0.074654	
1	1	16	95.3			1.814272	
2	2	9	90.3	1144		2.243002	
3	2	14	68.9	1131		3.646627	
4	2	19	54.6	1473		4.516971	
5	2	19	78.2	1253		5.064495	
6	3	17	54.9	1611	1876	6.430277	1
7	2	19	80.3	1805		7.18249	
8	2	16	68.1	1268		8.161951	
9	1	7	52.2			8.359718	
10	3	6	81.4	1920	1860	9.489786	
11	3	7	79.4	1682	1369	10.68615	
12	2	19	75.9	1291		11.97769	

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	12	96.5	1434	1326	0.586644	1
1	3	7	99.5	1486	1180	0.690607	
2	3	13	71.7	1495	1419	1.930774	
3	2	17	80	1619		2.64277	
4	2	6	52.3	1956		3.283982	
5	3	19	57	1801	1504	3.335851	
6	2	7	63.4	1417		4.156208	
7	2	10	61	1774		5.131187	
8	3	17	58.4	1812	1825	5.676464	
9	2	9	57.6	1528		6.569594	
10	3	16	77.8	1532	1154	7.175777	
11	3	6	67.5	1959	1102	7.587133	
12	3	15	99.8	1700	1210	8.146578	
13	2	13	52.4	1523		8.703984	
14	1	18	52.6			9.592159	
15	1	9	79.9			10.32081	
16	2	14	64.9	1521		11.22402	
17	1	11	54.3			11.76428	

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	19	64.8	1492	1131	0.253475	1
1	2	11	68.8	1753		1.043661	
2	1	18	93.7			2.091366	
3	2	6	56	1647		3.191292	
4	1	12	63.1			3.593661	
5	2	10	83.7	1354		4.590225	
6	3	6	53.4	1928	1031	5.254884	
7	3	18	62.9	1497	1314	6.222845	
8	3	19	75.8	1980	1594	7.526028	
9	2	7	70.8	1887		8.142843	
10	3	9	82.3	1189	1368	9.091463	
11	2	11	94.7	1612		9.51924	
12	2	19	71.2	1165		10.56091	
13	1	9	87.1			11.44473	

Bin5 Statistics 27

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	13	96.4	1725		0.234749	1
1	2	10	88.9	1101		0.931316	
2	2	8	97.3	1129		1.520525	
3	2	8	61.3	1422		2.535438	
4	2	13	93.3	1287		3.674142	
5	3	12	85.2	1429	1297	4.156793	
6	2	8	86.4	1968		4.679807	
7	3	12	99.7	1720	1142	5.520318	
8	1	18	73.5			6.433649	
9	2	5	91.3	1578		7.308738	
10	3	16	79.8	1984	1806	8.182518	
11	1	6	69			8.735277	
12	1	16	86.9			9.208672	
13	1	13	94.7			10.4136	
14	2	10	73.2	1567		10.80165	
15	1	6	99.7			11.40075	

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	12	81.8	1376		0.155678	1
1	2	7	63.5	1793		1.015098	
2	2	13	70.2	1906		2.051596	
3	1	6	90.6			3.318603	
4	2	7	79.8	1019		3.430517	
5	2	12	57.9	1788		4.368513	
6	2	13	70.3	1969		5.739527	
7	1	8	67			6.674844	
8	3	11	99.3	1316	1675	7.380379	
9	2	7	60.8	1366		8.550338	
10	3	14	74.8	1554	1734	9.228715	
11	3	9	80	1880	1148	9.876624	
12	2	18	95.2	1387		10.8034	
13	2	17	86	1767		11.21201	

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	13	63.4	1830	1454	0.693948	1
1	3	18	71.3	1948	1529	1.610897	
2	2	12	87.2	1586		2.956638	
3	2	16	63	1515		4.779967	
4	1	19	86.8			6.190151	
5	2	8	72.3	1487		7.134246	
6	3	13	59.2	1318	1439	8.031568	
7	3	8	59.8	1000	1879	10.28641	
8	3	16	85.4	1601	1695	11.94393	

Bin5 Statistics 30

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	7	84.9	1695		0.685033	
1	2	10	62.4	1830		1.332072	
2	2	15	60.1	1674		1.807587	
3	2	18	51.3	1438		2.726724	
4	2	9	58.9	1135		3.272014	
5	3	10	51.6	1459	1819	3.921775	
6	2	8	87.3	1783		4.530785	
7	3	8	50.3	1891	1314	5.082712	
8	1	20	95.7			6.21965	1
9	3	12	50.6	1453	1365	7.010996	
10	2	12	70.1	1331		7.401155	
11	2	8	74.9	1797		7.793021	
12	2	12	62.3	1165		8.537294	
13	2	12	55	1451		9.535073	
14	2	6	59.8	1953		10.02699	
15	2	18	96.8	1385		10.76876	
16	3	11	88.6	1707	1301	11.83936	

Table-6 Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)	Hopping Sequence
1	5280	9	1	333	1	5599.0, 5619.0, 5351.0, 5690.0, 5263.0, 5649.0, 5551.0, 5450.0, 5715.0, 5480.0, 5388.0, 5577.0, 5475.0, 5416.0, 5403.0, 5665.0, 5708.0, 5308.0, 5531.0, 5289.0, 5521.0, 5639.0, 5546.0, 5280.0, 5294.0, 5666.0, 5566.0, 5582.0, 5442.0, 5251.0, 5593.0, 5697.0, 5301.0, 5676.0, 5651.0, 5569.0, 5542.0, 5460.0, 5260.0, 5609.0, 5290.0, 5322.0, 5485.0, 5556.0, 5658.0, 5620.0, 5496.0, 5491.0, 5643.0, 5356.0, 5717.0, 5395.0, 5514.0, 5706.0, 5693.0, 5314.0, 5703.0, 5253.0, 5269.0, 5506.0, 5549.0, 5371.0, 5604.0, 5525.0, 5412.0, 5372.0, 5598.0, 5333.0, 5306.0, 5284.0, 5659.0, 5709.0, 5285.0, 5544.0, 5657.0, 5504.0, 5274.0, 5595.0, 5272.0, 5335.0, 5512.0, 5630.0, 5675.0, 5603.0, 5644.0, 5293.0, 5316.0, 5432.0, 5465.0, 5398.0, 5401.0, 5283.0, 5327.0, 5689.0, 5611.0, 5724.0, 5424.0, 5615.0, 5668.0, 5589.0 (number of hits: 9)
2	5280	9	1	333	1	5266.0, 5405.0, 5706.0, 5534.0, 5544.0, 5501.0, 5287.0, 5342.0, 5613.0, 5308.0, 5634.0, 5319.0, 5364.0, 5681.0, 5574.0, 5466.0, 5270.0, 5420.0, 5683.0, 5489.0, 5582.0, 5445.0, 5479.0, 5709.0, 5393.0, 5374.0, 5548.0, 5425.0, 5585.0, 5486.0, 5545.0, 5380.0, 5496.0, 5528.0, 5720.0, 5260.0, 5370.0, 5302.0, 5641.0, 5599.0, 5434.0, 5540.0, 5686.0, 5421.0, 5687.0, 5494.0, 5678.0, 5357.0, 5650.0, 5406.0, 5617.0, 5656.0, 5313.0, 5608.0, 5350.0, 5465.0, 5389.0, 5590.0, 5523.0, 5691.0, 5537.0, 5418.0, 5403.0, 5554.0, 5433.0, 5325.0, 5570.0, 5262.0, 5355.0, 5618.0, 5301.0, 5375.0, 5416.0, 5431.0, 5664.0, 5645.0, 5480.0, 5589.0, 5703.0, 5343.0, 5535.0, 5396.0, 5536.0, 5507.0, 5635.0, 5527.0, 5478.0, 5514.0, 5366.0, 5289.0, 5429.0, 5517.0, 5383.0, 5660.0, 5471.0, 5263.0, 5509.0, 5269.0, 5483.0, 5281.0 (number of hits: 6)
3	5280	9	1	333	1	5296.0, 5503.0, 5641.0, 5587.0, 5338.0, 5426.0, 5453.0, 5450.0, 5714.0, 5698.0, 5657.0, 5342.0, 5317.0, 5592.0, 5457.0, 5636.0, 5513.0, 5574.0, 5325.0, 5673.0, 5504.0, 5626.0, 5344.0, 5381.0, 5337.0, 5436.0, 5470.0, 5722.0, 5614.0, 5445.0, 5565.0, 5280.0, 5304.0, 5553.0, 5638.0, 5401.0, 5579.0, 5672.0, 5286.0, 5686.0, 5265.0, 5487.0, 5496.0, 5309.0, 5362.0, 5494.0, 5691.0, 5259.0, 5627.0, 5719.0,

						5540.0, 5651.0, 5269.0, 5548.0, 5530.0, 5297.0, 5312.0, 5359.0, 5535.0, 5396.0, 5422.0, 5420.0, 5682.0, 5621.0, 5524.0, 5484.0, 5690.0, 5618.0, 5550.0, 5721.0, 5456.0, 5610.0, 5561.0, 5674.0, 5267.0, 5554.0, 5707.0, 5586.0, 5531.0, 5407.0, 5361.0, 5480.0, 5569.0, 5458.0, 5640.0, 5660.0, 5562.0, 5276.0, 5262.0, 5488.0, 5556.0, 5632.0, 5511.0, 5523.0, 5658.0, 5271.0, 5444.0, 5290.0, 5347.0, 5354.0 (number of hits: 7)
4	5280	9	1	333	1	5697.0, 5519.0, 5710.0, 5490.0, 5338.0, 5426.0, 5699.0, 5460.0, 5396.0, 5272.0, 5601.0, 5677.0, 5259.0, 5342.0, 5501.0, 5722.0, 5343.0, 5562.0, 5393.0, 5619.0, 5319.0, 5714.0, 5349.0, 5496.0, 5435.0, 5471.0, 5555.0, 5517.0, 5447.0, 5388.0, 5301.0, 5386.0, 5557.0, 5311.0, 5437.0, 5676.0, 5534.0, 5287.0, 5334.0, 5381.0, 5623.0, 5462.0, 5500.0, 5488.0, 5403.0, 5262.0, 5520.0, 5267.0, 5410.0, 5372.0, 5693.0, 5625.0, 5608.0, 5639.0, 5665.0, 5399.0, 5446.0, 5288.0, 5359.0, 5518.0, 5252.0, 5362.0, 5674.0, 5454.0, 5398.0, 5713.0, 5588.0, 5402.0, 5688.0, 5712.0, 5280.0, 5635.0, 5607.0, 5377.0, 5723.0, 5438.0, 5541.0, 5352.0, 5595.0, 5411.0, 5427.0, 5464.0, 5506.0, 5465.0, 5604.0, 5290.0, 5512.0, 5719.0, 5583.0, 5525.0, 5651.0, 5573.0, 5628.0, 5457.0, 5314.0, 5335.0, 5378.0, 5373.0, 5421.0, 5341.0 (number of hits: 6)
5	5280	9	1	333	1	5369.0, 5690.0, 5360.0, 5466.0, 5514.0, 5706.0, 5436.0, 5682.0, 5635.0, 5284.0, 5719.0, 5672.0, 5340.0, 5577.0, 5586.0, 5693.0, 5711.0, 5618.0, 5413.0, 5276.0, 5576.0, 5619.0, 5334.0, 5583.0, 5317.0, 5407.0, 5645.0, 5627.0, 5544.0, 5277.0, 5515.0, 5412.0, 5707.0, 5259.0, 5410.0, 5502.0, 5545.0, 5425.0, 5477.0, 5326.0, 5404.0, 5496.0, 5620.0, 5455.0, 5587.0, 5647.0, 5594.0, 5367.0, 5262.0, 5373.0, 5380.0, 5342.0, 5254.0, 5418.0, 5253.0, 5489.0, 5539.0, 5278.0, 5310.0, 5552.0, 5543.0, 5614.0, 5391.0, 5698.0, 5364.0, 5516.0, 5322.0, 5419.0, 5292.0, 5375.0, 5686.0, 5401.0, 5459.0, 5449.0, 5571.0, 5536.0, 5442.0, 5390.0, 5663.0, 5643.0, 5353.0, 5408.0, 5308.0, 5521.0, 5398.0, 5397.0, 5715.0, 5681.0, 5696.0, 5300.0, 5430.0, 5537.0, 5341.0, 5354.0, 5473.0, 5530.0, 5383.0, 5508.0, 5267.0, 5311.0 (number of hits: 5)
6	5280	9	1	333	1	5570.0, 5437.0, 5469.0, 5438.0, 5645.0, 5528.0, 5589.0, 5673.0, 5407.0, 5325.0, 5702.0, 5678.0, 5264.0, 5385.0, 5420.0, 5640.0, 5606.0, 5311.0, 5274.0, 5556.0, 5300.0, 5364.0, 5644.0, 5628.0, 5395.0,

						5323.0, 5435.0, 5306.0, 5550.0, 5396.0, 5285.0, 5614.0, 5522.0, 5317.0, 5582.0, 5434.0, 5600.0, 5704.0, 5353.0, 5505.0, 5453.0, 5559.0, 5479.0, 5632.0, 5284.0, 5558.0, 5536.0, 5566.0, 5483.0, 5297.0, 5473.0, 5387.0, 5415.0, 5358.0, 5465.0, 5422.0, 5717.0, 5565.0, 5375.0, 5467.0, 5515.0, 5561.0, 5458.0, 5586.0, 5294.0, 5258.0, 5489.0, 5251.0, 5707.0, 5616.0, 5416.0, 5554.0, 5478.0, 5715.0, 5598.0, 5292.0, 5296.0, 5357.0, 5425.0, 5288.0, 5623.0, 5652.0, 5602.0, 5504.0, 5390.0, 5320.0, 5441.0, 5432.0, 5525.0, 5503.0, 5392.0, 5684.0, 5345.0, 5418.0, 5724.0, 5318.0, 5595.0, 5539.0, 5710.0, 5677.0 (number of hits: 9)
7	5280	9	1	333	1	5270.0, 5639.0, 5464.0, 5612.0, 5619.0, 5372.0, 5501.0, 5312.0, 5531.0, 5687.0, 5345.0, 5432.0, 5355.0, 5328.0, 5441.0, 5714.0, 5334.0, 5263.0, 5633.0, 5704.0, 5485.0, 5549.0, 5530.0, 5411.0, 5471.0, 5460.0, 5723.0, 5307.0, 5616.0, 5617.0, 5313.0, 5379.0, 5632.0, 5578.0, 5363.0, 5447.0, 5453.0, 5329.0, 5496.0, 5621.0, 5448.0, 5420.0, 5351.0, 5304.0, 5427.0, 5449.0, 5476.0, 5487.0, 5659.0, 5574.0, 5640.0, 5557.0, 5694.0, 5588.0, 5340.0, 5368.0, 5353.0, 5499.0, 5598.0, 5306.0, 5682.0, 5698.0, 5693.0, 5442.0, 5401.0, 5705.0, 5444.0, 5412.0, 5502.0, 5267.0, 5452.0, 5524.0, 5646.0, 5589.0, 5672.0, 5559.0, 5664.0, 5257.0, 5488.0, 5553.0, 5596.0, 5446.0, 5688.0, 5451.0, 5396.0, 5456.0, 5349.0, 5525.0, 5709.0, 5571.0, 5645.0, 5546.0, 5465.0, 5696.0, 5587.0, 5443.0, 5422.0, 5310.0, 5680.0, 5280.0 (number of hits: 6)
8	5280	9	1	333	1	5609.0, 5371.0, 5612.0, 5438.0, 5617.0, 5457.0, 5300.0, 5577.0, 5718.0, 5337.0, 5667.0, 5702.0, 5453.0, 5479.0, 5335.0, 5411.0, 5485.0, 5388.0, 5382.0, 5687.0, 5603.0, 5723.0, 5339.0, 5602.0, 5590.0, 5265.0, 5665.0, 5445.0, 5380.0, 5331.0, 5688.0, 5648.0, 5505.0, 5669.0, 5435.0, 5544.0, 5432.0, 5716.0, 5518.0, 5490.0, 5307.0, 5683.0, 5649.0, 5620.0, 5275.0, 5316.0, 5582.0, 5459.0, 5691.0, 5613.0, 5545.0, 5595.0, 5604.0, 5703.0, 5370.0, 5523.0, 5696.0, 5708.0, 5423.0, 5401.0, 5397.0, 5269.0, 5473.0, 5662.0, 5458.0, 5561.0, 5267.0, 5656.0, 5487.0, 5364.0, 5546.0, 5679.0, 5673.0, 5674.0, 5471.0, 5686.0, 5509.0, 5469.0, 5587.0, 5488.0, 5701.0, 5434.0, 5353.0, 5565.0, 5499.0, 5462.0, 5360.0, 5349.0, 5588.0, 5594.0, 5328.0, 5270.0, 5398.0, 5365.0, 5598.0, 5558.0, 5472.0, 5535.0, 5627.0, 5678.0 (number of hits: 2)

9	5280	9	1	333	1	5559.0, 5670.0, 5723.0, 5606.0, 5593.0, 5410.0, 5346.0, 5658.0, 5394.0, 5348.0, 5505.0, 5489.0, 5406.0, 5344.0, 5705.0, 5652.0, 5632.0, 5553.0, 5591.0, 5563.0, 5481.0, 5330.0, 5641.0, 5532.0, 5442.0, 5508.0, 5526.0, 5441.0, 5581.0, 5588.0, 5706.0, 5292.0, 5622.0, 5675.0, 5429.0, 5575.0, 5671.0, 5391.0, 5448.0, 5521.0, 5398.0, 5544.0, 5315.0, 5480.0, 5255.0, 5298.0, 5387.0, 5478.0, 5724.0, 5604.0, 5463.0, 5376.0, 5703.0, 5276.0, 5525.0, 5667.0, 5708.0, 5715.0, 5642.0, 5699.0, 5507.0, 5404.0, 5549.0, 5460.0, 5611.0, 5719.0, 5528.0, 5261.0, 5278.0, 5539.0, 5629.0, 5601.0, 5552.0, 5366.0, 5452.0, 5362.0, 5416.0, 5303.0, 5630.0, 5459.0, 5660.0, 5447.0, 5616.0, 5485.0, 5536.0, 5585.0, 5456.0, 5551.0, 5392.0, 5561.0, 5430.0, 5487.0, 5710.0, 5682.0, 5484.0, 5493.0, 5519.0, 5419.0, 5309.0, 5683.0 (number of hits: 4)
10	5280	9	1	333	1	5414.0, 5630.0, 5655.0, 5498.0, 5354.0, 5298.0, 5668.0, 5451.0, 5706.0, 5530.0, 5622.0, 5681.0, 5713.0, 5404.0, 5607.0, 5470.0, 5545.0, 5380.0, 5715.0, 5274.0, 5351.0, 5313.0, 5640.0, 5589.0, 5319.0, 5529.0, 5617.0, 5585.0, 5562.0, 5252.0, 5541.0, 5343.0, 5663.0, 5664.0, 5294.0, 5256.0, 5400.0, 5474.0, 5336.0, 5685.0, 5329.0, 5485.0, 5616.0, 5290.0, 5312.0, 5431.0, 5345.0, 5709.0, 5477.0, 5426.0, 5350.0, 5680.0, 5307.0, 5295.0, 5296.0, 5374.0, 5717.0, 5497.0, 5720.0, 5645.0, 5556.0, 5658.0, 5415.0, 5675.0, 5386.0, 5479.0, 5487.0, 5579.0, 5417.0, 5704.0, 5467.0, 5568.0, 5697.0, 5711.0, 5395.0, 5355.0, 5323.0, 5610.0, 5623.0, 5276.0, 5638.0, 5693.0, 5547.0, 5641.0, 5719.0, 5564.0, 5429.0, 5598.0, 5567.0, 5566.0, 5491.0, 5277.0, 5403.0, 5570.0, 5393.0, 5310.0, 5550.0, 5302.0, 5385.0, 5577.0 (number of hits: 10)
11	5280	9	1	333	1	5612.0, 5340.0, 5658.0, 5301.0, 5430.0, 5410.0, 5341.0, 5691.0, 5316.0, 5279.0, 5521.0, 5322.0, 5550.0, 5599.0, 5488.0, 5369.0, 5555.0, 5273.0, 5397.0, 5654.0, 5655.0, 5672.0, 5487.0, 5357.0, 5305.0, 5696.0, 5328.0, 5485.0, 5722.0, 5439.0, 5383.0, 5679.0, 5453.0, 5698.0, 5303.0, 5308.0, 5478.0, 5529.0, 5363.0, 5632.0, 5636.0, 5512.0, 5472.0, 5471.0, 5536.0, 5276.0, 5711.0, 5427.0, 5414.0, 5354.0, 5549.0, 5684.0, 5620.0, 5702.0, 5676.0, 5622.0, 5627.0, 5251.0, 5489.0, 5343.0, 5404.0, 5456.0, 5578.0, 5345.0, 5541.0, 5296.0, 5367.0, 5503.0, 5553.0, 5709.0, 5508.0, 5661.0, 5552.0, 5650.0, 5690.0, 5548.0, 5601.0, 5614.0, 5647.0, 5583.0,

						5651.0, 5424.0, 5683.0, 5386.0, 5621.0, 5671.0, 5257.0, 5356.0, 5262.0, 5297.0, 5719.0, 5379.0, 5407.0, 5680.0, 5300.0, 5468.0, 5532.0, 5715.0, 5285.0, 5557.0 (number of hits: 8)
12	5280	9	1	333	1	5462.0, 5503.0, 5478.0, 5564.0, 5464.0, 5519.0, 5660.0, 5524.0, 5291.0, 5515.0, 5491.0, 5719.0, 5586.0, 5382.0, 5325.0, 5429.0, 5696.0, 5473.0, 5595.0, 5356.0, 5372.0, 5535.0, 5269.0, 5724.0, 5613.0, 5392.0, 5708.0, 5446.0, 5579.0, 5626.0, 5551.0, 5587.0, 5292.0, 5706.0, 5608.0, 5332.0, 5323.0, 5449.0, 5659.0, 5559.0, 5671.0, 5502.0, 5370.0, 5542.0, 5572.0, 5508.0, 5549.0, 5580.0, 5339.0, 5606.0, 5511.0, 5678.0, 5669.0, 5466.0, 5416.0, 5684.0, 5343.0, 5588.0, 5711.0, 5318.0, 5618.0, 5448.0, 5375.0, 5654.0, 5460.0, 5404.0, 5714.0, 5454.0, 5328.0, 5512.0, 5347.0, 5558.0, 5615.0, 5584.0, 5389.0, 5562.0, 5322.0, 5367.0, 5277.0, 5594.0, 5452.0, 5426.0, 5381.0, 5692.0, 5252.0, 5406.0, 5374.0, 5531.0, 5412.0, 5490.0, 5597.0, 5705.0, 5288.0, 5560.0, 5413.0, 5689.0, 5616.0, 5640.0, 5509.0, 5451.0 (number of hits: 3)
13	5280	9	1	333	1	5603.0, 5662.0, 5523.0, 5337.0, 5562.0, 5504.0, 5583.0, 5674.0, 5647.0, 5512.0, 5307.0, 5344.0, 5693.0, 5717.0, 5637.0, 5505.0, 5445.0, 5668.0, 5667.0, 5311.0, 5514.0, 5670.0, 5477.0, 5569.0, 5510.0, 5539.0, 5602.0, 5481.0, 5715.0, 5389.0, 5322.0, 5341.0, 5332.0, 5471.0, 5622.0, 5558.0, 5306.0, 5677.0, 5290.0, 5452.0, 5665.0, 5256.0, 5645.0, 5448.0, 5488.0, 5438.0, 5427.0, 5497.0, 5594.0, 5485.0, 5555.0, 5376.0, 5501.0, 5266.0, 5372.0, 5462.0, 5395.0, 5304.0, 5300.0, 5385.0, 5472.0, 5612.0, 5285.0, 5373.0, 5532.0, 5325.0, 5338.0, 5369.0, 5632.0, 5277.0, 5723.0, 5431.0, 5694.0, 5680.0, 5409.0, 5654.0, 5460.0, 5366.0, 5592.0, 5387.0, 5634.0, 5682.0, 5435.0, 5279.0, 5439.0, 5528.0, 5617.0, 5490.0, 5296.0, 5678.0, 5620.0, 5250.0, 5377.0, 5684.0, 5486.0, 5593.0, 5689.0, 5478.0, 5573.0, 5585.0 (number of hits: 8)
14	5280	9	1	333	1	5367.0, 5635.0, 5674.0, 5502.0, 5483.0, 5397.0, 5646.0, 5657.0, 5280.0, 5352.0, 5391.0, 5640.0, 5251.0, 5404.0, 5546.0, 5480.0, 5683.0, 5276.0, 5602.0, 5698.0, 5487.0, 5711.0, 5381.0, 5603.0, 5623.0, 5542.0, 5254.0, 5608.0, 5413.0, 5684.0, 5526.0, 5494.0, 5266.0, 5642.0, 5628.0, 5368.0, 5376.0, 5365.0, 5466.0, 5570.0, 5290.0, 5591.0, 5267.0, 5661.0, 5334.0, 5444.0, 5658.0, 5265.0, 5636.0, 5519.0, 5632.0, 5599.0, 5313.0, 5340.0, 5647.0,

						5292.0, 5521.0, 5456.0, 5318.0, 5449.0, 5586.0, 5666.0, 5648.0, 5309.0, 5355.0, 5258.0, 5371.0, 5579.0, 5343.0, 5550.0, 5707.0, 5451.0, 5339.0, 5269.0, 5659.0, 5601.0, 5676.0, 5671.0, 5535.0, 5426.0, 5560.0, 5479.0, 5653.0, 5332.0, 5486.0, 5460.0, 5673.0, 5708.0, 5557.0, 5303.0, 5364.0, 5575.0, 5361.0, 5312.0, 5495.0, 5675.0, 5506.0, 5394.0, 5421.0, 5473.0 (number of hits: 6)
15	5280	9	1	333	1	5458.0, 5671.0, 5327.0, 5630.0, 5441.0, 5653.0, 5619.0, 5570.0, 5250.0, 5684.0, 5604.0, 5546.0, 5557.0, 5583.0, 5509.0, 5589.0, 5492.0, 5590.0, 5473.0, 5599.0, 5367.0, 5323.0, 5506.0, 5558.0, 5715.0, 5520.0, 5374.0, 5572.0, 5539.0, 5690.0, 5623.0, 5364.0, 5418.0, 5650.0, 5654.0, 5407.0, 5651.0, 5644.0, 5347.0, 5493.0, 5417.0, 5530.0, 5696.0, 5495.0, 5434.0, 5478.0, 5614.0, 5687.0, 5626.0, 5446.0, 5637.0, 5716.0, 5602.0, 5480.0, 5456.0, 5341.0, 5461.0, 5641.0, 5353.0, 5466.0, 5713.0, 5260.0, 5575.0, 5385.0, 5286.0, 5608.0, 5445.0, 5481.0, 5280.0, 5387.0, 5721.0, 5491.0, 5290.0, 5342.0, 5562.0, 5377.0, 5297.0, 5615.0, 5372.0, 5459.0, 5340.0, 5620.0, 5485.0, 5528.0, 5564.0, 5658.0, 5395.0, 5316.0, 5634.0, 5380.0, 5274.0, 5432.0, 5581.0, 5424.0, 5413.0, 5271.0, 5365.0, 5251.0, 5643.0, 5426.0 (number of hits: 3)
16	5280	9	1	333	1	5566.0, 5544.0, 5480.0, 5459.0, 5331.0, 5294.0, 5655.0, 5286.0, 5622.0, 5637.0, 5442.0, 5579.0, 5539.0, 5261.0, 5355.0, 5580.0, 5498.0, 5309.0, 5334.0, 5645.0, 5384.0, 5584.0, 5503.0, 5479.0, 5325.0, 5685.0, 5280.0, 5255.0, 5705.0, 5341.0, 5643.0, 5706.0, 5321.0, 5487.0, 5664.0, 5413.0, 5389.0, 5402.0, 5378.0, 5519.0, 5555.0, 5482.0, 5379.0, 5713.0, 5474.0, 5711.0, 5455.0, 5281.0, 5547.0, 5612.0, 5273.0, 5305.0, 5676.0, 5615.0, 5335.0, 5617.0, 5264.0, 5299.0, 5374.0, 5302.0, 5259.0, 5634.0, 5591.0, 5418.0, 5719.0, 5296.0, 5569.0, 5345.0, 5610.0, 5496.0, 5329.0, 5492.0, 5561.0, 5458.0, 5588.0, 5626.0, 5342.0, 5469.0, 5432.0, 5320.0, 5723.0, 5707.0, 5328.0, 5332.0, 5587.0, 5662.0, 5700.0, 5445.0, 5524.0, 5520.0, 5722.0, 5532.0, 5512.0, 5271.0, 5388.0, 5596.0, 5486.0, 5644.0, 5571.0, 5425.0 (number of hits: 7)
17	5280	9	1	333	1	5255.0, 5575.0, 5399.0, 5655.0, 5661.0, 5627.0, 5253.0, 5584.0, 5604.0, 5528.0, 5547.0, 5594.0, 5320.0, 5304.0, 5723.0, 5479.0, 5312.0, 5495.0, 5544.0, 5448.0, 5434.0, 5377.0, 5677.0, 5371.0, 5443.0, 5657.0, 5641.0, 5679.0, 5556.0, 5689.0,

						5349.0, 5379.0, 5252.0, 5342.0, 5676.0, 5290.0, 5581.0, 5608.0, 5489.0, 5364.0, 5586.0, 5401.0, 5361.0, 5578.0, 5261.0, 5474.0, 5531.0, 5388.0, 5538.0, 5321.0, 5343.0, 5428.0, 5466.0, 5423.0, 5648.0, 5720.0, 5698.0, 5269.0, 5577.0, 5632.0, 5716.0, 5626.0, 5597.0, 5446.0, 5506.0, 5585.0, 5456.0, 5367.0, 5381.0, 5686.0, 5619.0, 5660.0, 5424.0, 5280.0, 5507.0, 5631.0, 5659.0, 5598.0, 5543.0, 5630.0, 5422.0, 5390.0, 5475.0, 5338.0, 5669.0, 5639.0, 5683.0, 5642.0, 5576.0, 5332.0, 5452.0, 5496.0, 5415.0, 5414.0, 5718.0, 5264.0, 5589.0, 5281.0, 5470.0, 5400.0 (number of hits: 3)
18	5280	9	1	333	1	5318.0, 5325.0, 5334.0, 5575.0, 5492.0, 5633.0, 5316.0, 5456.0, 5588.0, 5267.0, 5314.0, 5499.0, 5252.0, 5385.0, 5561.0, 5319.0, 5401.0, 5611.0, 5483.0, 5503.0, 5546.0, 5250.0, 5526.0, 5302.0, 5465.0, 5347.0, 5574.0, 5604.0, 5391.0, 5692.0, 5295.0, 5549.0, 5525.0, 5690.0, 5511.0, 5613.0, 5276.0, 5560.0, 5449.0, 5612.0, 5493.0, 5455.0, 5317.0, 5333.0, 5345.0, 5570.0, 5414.0, 5695.0, 5430.0, 5327.0, 5374.0, 5534.0, 5576.0, 5629.0, 5322.0, 5684.0, 5659.0, 5476.0, 5709.0, 5679.0, 5665.0, 5682.0, 5506.0, 5723.0, 5417.0, 5415.0, 5442.0, 5296.0, 5284.0, 5681.0, 5260.0, 5652.0, 5304.0, 5336.0, 5650.0, 5330.0, 5519.0, 5689.0, 5703.0, 5632.0, 5263.0, 5291.0, 5552.0, 5348.0, 5367.0, 5416.0, 5466.0, 5283.0, 5701.0, 5308.0, 5509.0, 5299.0, 5547.0, 5685.0, 5342.0, 5595.0, 5531.0, 5623.0, 5677.0, 5306.0 (number of hits: 9)
19	5280	9	1	333	1	5358.0, 5502.0, 5361.0, 5569.0, 5260.0, 5535.0, 5466.0, 5606.0, 5392.0, 5541.0, 5568.0, 5321.0, 5649.0, 5307.0, 5412.0, 5386.0, 5438.0, 5719.0, 5703.0, 5534.0, 5707.0, 5282.0, 5350.0, 5538.0, 5393.0, 5331.0, 5525.0, 5265.0, 5390.0, 5584.0, 5654.0, 5637.0, 5270.0, 5453.0, 5679.0, 5603.0, 5622.0, 5253.0, 5578.0, 5332.0, 5347.0, 5493.0, 5389.0, 5702.0, 5258.0, 5333.0, 5619.0, 5589.0, 5573.0, 5373.0, 5676.0, 5550.0, 5628.0, 5583.0, 5283.0, 5704.0, 5509.0, 5415.0, 5687.0, 5316.0, 5387.0, 5621.0, 5365.0, 5656.0, 5711.0, 5497.0, 5579.0, 5582.0, 5344.0, 5577.0, 5558.0, 5556.0, 5677.0, 5691.0, 5510.0, 5696.0, 5274.0, 5592.0, 5276.0, 5312.0, 5581.0, 5273.0, 5672.0, 5461.0, 5470.0, 5271.0, 5602.0, 5536.0, 5303.0, 5464.0, 5337.0, 5551.0, 5441.0, 5259.0, 5529.0, 5254.0, 5713.0, 5675.0, 5417.0, 5267.0 (number of hits: 3)
20	5280	9	1	333	1	5599.0, 5615.0, 5452.0, 5496.0, 5467.0,

						5662.0, 5641.0, 5692.0, 5556.0, 5418.0, 5472.0, 5470.0, 5526.0, 5580.0, 5491.0, 5659.0, 5311.0, 5609.0, 5608.0, 5261.0, 5450.0, 5507.0, 5654.0, 5640.0, 5594.0, 5498.0, 5655.0, 5480.0, 5352.0, 5269.0, 5627.0, 5575.0, 5376.0, 5251.0, 5280.0, 5635.0, 5719.0, 5505.0, 5652.0, 5364.0, 5715.0, 5527.0, 5595.0, 5633.0, 5586.0, 5591.0, 5642.0, 5259.0, 5369.0, 5484.0, 5583.0, 5413.0, 5606.0, 5673.0, 5685.0, 5439.0, 5307.0, 5584.0, 5653.0, 5723.0, 5367.0, 5356.0, 5637.0, 5258.0, 5658.0, 5315.0, 5264.0, 5355.0, 5272.0, 5447.0, 5497.0, 5304.0, 5324.0, 5306.0, 5383.0, 5665.0, 5537.0, 5598.0, 5547.0, 5387.0, 5432.0, 5457.0, 5253.0, 5629.0, 5533.0, 5404.0, 5371.0, 5503.0, 5698.0, 5333.0, 5559.0, 5628.0, 5475.0, 5643.0, 5445.0, 5421.0, 5308.0, 5669.0, 5630.0, 5458.0 (number of hits: 5)
21	5280	9	1	333	1	5432.0, 5258.0, 5305.0, 5369.0, 5390.0, 5601.0, 5296.0, 5327.0, 5550.0, 5484.0, 5634.0, 5618.0, 5686.0, 5652.0, 5569.0, 5345.0, 5423.0, 5411.0, 5350.0, 5530.0, 5590.0, 5283.0, 5614.0, 5306.0, 5553.0, 5407.0, 5600.0, 5703.0, 5346.0, 5473.0, 5485.0, 5557.0, 5613.0, 5389.0, 5505.0, 5302.0, 5462.0, 5276.0, 5348.0, 5565.0, 5449.0, 5641.0, 5334.0, 5680.0, 5257.0, 5720.0, 5414.0, 5373.0, 5470.0, 5318.0, 5418.0, 5255.0, 5582.0, 5385.0, 5368.0, 5683.0, 5547.0, 5673.0, 5426.0, 5525.0, 5715.0, 5607.0, 5338.0, 5596.0, 5662.0, 5721.0, 5643.0, 5311.0, 5678.0, 5695.0, 5443.0, 5495.0, 5400.0, 5402.0, 5410.0, 5637.0, 5690.0, 5292.0, 5516.0, 5712.0, 5537.0, 5556.0, 5328.0, 5379.0, 5480.0, 5650.0, 5500.0, 5682.0, 5278.0, 5639.0, 5364.0, 5539.0, 5288.0, 5363.0, 5358.0, 5438.0, 5603.0, 5708.0, 5323.0, 5693.0 (number of hits: 7)
22	5280	9	1	333	1	5309.0, 5698.0, 5578.0, 5646.0, 5523.0, 5517.0, 5282.0, 5601.0, 5300.0, 5381.0, 5343.0, 5583.0, 5575.0, 5468.0, 5457.0, 5410.0, 5502.0, 5382.0, 5553.0, 5685.0, 5547.0, 5461.0, 5668.0, 5701.0, 5720.0, 5577.0, 5550.0, 5717.0, 5691.0, 5620.0, 5399.0, 5556.0, 5261.0, 5588.0, 5256.0, 5655.0, 5452.0, 5379.0, 5319.0, 5607.0, 5458.0, 5318.0, 5621.0, 5552.0, 5370.0, 5512.0, 5367.0, 5295.0, 5721.0, 5566.0, 5373.0, 5675.0, 5444.0, 5380.0, 5496.0, 5431.0, 5541.0, 5306.0, 5658.0, 5699.0, 5600.0, 5424.0, 5674.0, 5680.0, 5659.0, 5336.0, 5546.0, 5673.0, 5579.0, 5564.0, 5483.0, 5332.0, 5616.0, 5263.0, 5618.0, 5500.0, 5351.0, 5312.0, 5269.0, 5358.0, 5598.0, 5539.0, 5346.0, 5397.0, 5612.0,

						5251.0, 5464.0, 5641.0, 5700.0, 5352.0, 5584.0, 5605.0, 5649.0, 5337.0, 5555.0, 5481.0, 5693.0, 5703.0, 5487.0, 5296.0 (number of hits: 6)
23	5280	9	1	333	1	5568.0, 5661.0, 5295.0, 5453.0, 5283.0, 5366.0, 5656.0, 5363.0, 5430.0, 5520.0, 5606.0, 5714.0, 5681.0, 5715.0, 5475.0, 5450.0, 5396.0, 5484.0, 5717.0, 5390.0, 5590.0, 5596.0, 5315.0, 5261.0, 5724.0, 5579.0, 5419.0, 5581.0, 5338.0, 5620.0, 5641.0, 5464.0, 5563.0, 5613.0, 5259.0, 5673.0, 5615.0, 5633.0, 5703.0, 5663.0, 5389.0, 5497.0, 5331.0, 5449.0, 5299.0, 5555.0, 5466.0, 5489.0, 5424.0, 5534.0, 5350.0, 5408.0, 5587.0, 5339.0, 5392.0, 5602.0, 5266.0, 5263.0, 5251.0, 5421.0, 5600.0, 5699.0, 5644.0, 5539.0, 5506.0, 5704.0, 5670.0, 5388.0, 5323.0, 5576.0, 5571.0, 5572.0, 5274.0, 5383.0, 5255.0, 5588.0, 5643.0, 5508.0, 5367.0, 5253.0, 5589.0, 5286.0, 5385.0, 5616.0, 5674.0, 5712.0, 5631.0, 5469.0, 5694.0, 5369.0, 5605.0, 5432.0, 5410.0, 5493.0, 5303.0, 5362.0, 5490.0, 5306.0, 5586.0, 5428.0 (number of hits: 5)
24	5280	9	1	333	1	5335.0, 5272.0, 5397.0, 5257.0, 5639.0, 5605.0, 5508.0, 5596.0, 5450.0, 5625.0, 5667.0, 5692.0, 5483.0, 5408.0, 5336.0, 5396.0, 5486.0, 5492.0, 5464.0, 5440.0, 5321.0, 5374.0, 5587.0, 5711.0, 5653.0, 5512.0, 5610.0, 5621.0, 5250.0, 5399.0, 5517.0, 5278.0, 5475.0, 5520.0, 5395.0, 5375.0, 5501.0, 5370.0, 5633.0, 5718.0, 5612.0, 5416.0, 5332.0, 5386.0, 5580.0, 5415.0, 5511.0, 5713.0, 5622.0, 5679.0, 5694.0, 5498.0, 5573.0, 5525.0, 5451.0, 5304.0, 5340.0, 5500.0, 5607.0, 5453.0, 5339.0, 5256.0, 5575.0, 5608.0, 5264.0, 5357.0, 5647.0, 5347.0, 5457.0, 5322.0, 5721.0, 5574.0, 5698.0, 5319.0, 5327.0, 5484.0, 5524.0, 5704.0, 5702.0, 5392.0, 5255.0, 5368.0, 5646.0, 5355.0, 5503.0, 5685.0, 5444.0, 5271.0, 5619.0, 5405.0, 5550.0, 5671.0, 5482.0, 5526.0, 5687.0, 5665.0, 5344.0, 5383.0, 5654.0, 5430.0 (number of hits: 1)
25	5280	9	1	333	1	5460.0, 5503.0, 5358.0, 5559.0, 5367.0, 5601.0, 5721.0, 5578.0, 5452.0, 5455.0, 5413.0, 5608.0, 5450.0, 5282.0, 5572.0, 5387.0, 5383.0, 5577.0, 5325.0, 5602.0, 5496.0, 5290.0, 5650.0, 5492.0, 5256.0, 5646.0, 5319.0, 5717.0, 5704.0, 5269.0, 5667.0, 5544.0, 5530.0, 5661.0, 5675.0, 5369.0, 5416.0, 5469.0, 5642.0, 5698.0, 5263.0, 5546.0, 5581.0, 5679.0, 5703.0, 5316.0, 5463.0, 5432.0, 5446.0, 5276.0, 5586.0, 5435.0, 5361.0, 5599.0, 5257.0, 5301.0, 5691.0, 5619.0, 5494.0, 5589.0,

						5410.0, 5668.0, 5396.0, 5412.0, 5687.0, 5583.0, 5393.0, 5565.0, 5451.0, 5402.0, 5607.0, 5684.0, 5495.0, 5277.0, 5264.0, 5508.0, 5686.0, 5457.0, 5322.0, 5610.0, 5655.0, 5641.0, 5519.0, 5653.0, 5357.0, 5486.0, 5490.0, 5527.0, 5542.0, 5557.0, 5718.0, 5260.0, 5564.0, 5443.0, 5371.0, 5543.0, 5299.0, 5328.0, 5632.0, 5556.0 (number of hits: 3)
26	5280	9	1	333	1	5404.0, 5573.0, 5487.0, 5537.0, 5271.0, 5588.0, 5447.0, 5668.0, 5327.0, 5703.0, 5263.0, 5410.0, 5278.0, 5629.0, 5446.0, 5261.0, 5707.0, 5704.0, 5516.0, 5714.0, 5320.0, 5671.0, 5391.0, 5275.0, 5687.0, 5708.0, 5724.0, 5626.0, 5393.0, 5325.0, 5619.0, 5513.0, 5405.0, 5616.0, 5574.0, 5583.0, 5316.0, 5463.0, 5593.0, 5544.0, 5679.0, 5711.0, 5387.0, 5359.0, 5483.0, 5373.0, 5431.0, 5666.0, 5644.0, 5520.0, 5715.0, 5577.0, 5590.0, 5252.0, 5541.0, 5308.0, 5612.0, 5390.0, 5413.0, 5280.0, 5351.0, 5250.0, 5459.0, 5566.0, 5432.0, 5701.0, 5482.0, 5288.0, 5712.0, 5581.0, 5649.0, 5502.0, 5257.0, 5299.0, 5360.0, 5617.0, 5293.0, 5538.0, 5457.0, 5518.0, 5310.0, 5641.0, 5622.0, 5272.0, 5340.0, 5260.0, 5363.0, 5345.0, 5499.0, 5705.0, 5572.0, 5394.0, 5640.0, 5352.0, 5562.0, 5259.0, 5333.0, 5285.0, 5441.0, 5392.0 (number of hits: 6)
27	5280	9	1	333	1	5643.0, 5373.0, 5466.0, 5283.0, 5519.0, 5302.0, 5652.0, 5349.0, 5523.0, 5562.0, 5683.0, 5446.0, 5441.0, 5431.0, 5301.0, 5409.0, 5430.0, 5675.0, 5434.0, 5487.0, 5584.0, 5606.0, 5555.0, 5343.0, 5337.0, 5578.0, 5314.0, 5646.0, 5534.0, 5385.0, 5608.0, 5617.0, 5625.0, 5549.0, 5276.0, 5619.0, 5596.0, 5469.0, 5457.0, 5419.0, 5319.0, 5605.0, 5692.0, 5671.0, 5718.0, 5379.0, 5672.0, 5684.0, 5629.0, 5615.0, 5296.0, 5689.0, 5508.0, 5467.0, 5377.0, 5711.0, 5574.0, 5507.0, 5282.0, 5544.0, 5691.0, 5274.0, 5517.0, 5437.0, 5454.0, 5270.0, 5581.0, 5529.0, 5287.0, 5360.0, 5667.0, 5275.0, 5327.0, 5439.0, 5548.0, 5505.0, 5382.0, 5571.0, 5408.0, 5522.0, 5472.0, 5332.0, 5308.0, 5324.0, 5323.0, 5422.0, 5693.0, 5589.0, 5449.0, 5368.0, 5397.0, 5414.0, 5612.0, 5358.0, 5546.0, 5427.0, 5657.0, 5717.0, 5405.0, 5374.0 (number of hits: 6)
28	5280	9	1	333	1	5269.0, 5264.0, 5694.0, 5389.0, 5453.0, 5699.0, 5436.0, 5405.0, 5639.0, 5415.0, 5587.0, 5513.0, 5489.0, 5528.0, 5403.0, 5388.0, 5295.0, 5254.0, 5449.0, 5422.0, 5395.0, 5708.0, 5370.0, 5644.0, 5444.0, 5360.0, 5340.0, 5480.0, 5426.0, 5483.0, 5650.0, 5363.0, 5722.0, 5579.0, 5438.0,

						5252.0, 5294.0, 5637.0, 5325.0, 5600.0, 5445.0, 5478.0, 5580.0, 5567.0, 5715.0, 5291.0, 5641.0, 5611.0, 5270.0, 5534.0, 5597.0, 5316.0, 5327.0, 5584.0, 5385.0, 5648.0, 5352.0, 5259.0, 5335.0, 5451.0, 5684.0, 5564.0, 5556.0, 5710.0, 5397.0, 5253.0, 5281.0, 5669.0, 5544.0, 5263.0, 5638.0, 5511.0, 5319.0, 5701.0, 5375.0, 5493.0, 5680.0, 5329.0, 5618.0, 5714.0, 5664.0, 5469.0, 5500.0, 5532.0, 5320.0, 5571.0, 5685.0, 5642.0, 5627.0, 5723.0, 5547.0, 5496.0, 5668.0, 5573.0, 5632.0, 5267.0, 5696.0, 5482.0, 5629.0, 5595.0 (number of hits: 3)
29	5280	9	1	333	1	5360.0, 5327.0, 5347.0, 5336.0, 5320.0, 5472.0, 5444.0, 5344.0, 5643.0, 5513.0, 5664.0, 5581.0, 5663.0, 5652.0, 5451.0, 5460.0, 5658.0, 5571.0, 5321.0, 5672.0, 5345.0, 5642.0, 5326.0, 5255.0, 5328.0, 5398.0, 5370.0, 5301.0, 5341.0, 5275.0, 5528.0, 5596.0, 5376.0, 5538.0, 5434.0, 5633.0, 5497.0, 5307.0, 5567.0, 5511.0, 5459.0, 5559.0, 5623.0, 5395.0, 5525.0, 5379.0, 5366.0, 5565.0, 5292.0, 5536.0, 5603.0, 5634.0, 5284.0, 5365.0, 5496.0, 5533.0, 5262.0, 5695.0, 5282.0, 5477.0, 5408.0, 5399.0, 5554.0, 5339.0, 5294.0, 5631.0, 5668.0, 5313.0, 5385.0, 5582.0, 5656.0, 5545.0, 5523.0, 5456.0, 5488.0, 5349.0, 5452.0, 5604.0, 5388.0, 5605.0, 5293.0, 5692.0, 5524.0, 5495.0, 5719.0, 5400.0, 5329.0, 5662.0, 5546.0, 5470.0, 5521.0, 5354.0, 5380.0, 5679.0, 5721.0, 5502.0, 5702.0, 5609.0, 5540.0, 5373.0 (number of hits: 6)
30	5280	9	1	333	1	5685.0, 5628.0, 5589.0, 5509.0, 5345.0, 5580.0, 5522.0, 5618.0, 5572.0, 5379.0, 5372.0, 5537.0, 5535.0, 5385.0, 5687.0, 5308.0, 5681.0, 5501.0, 5716.0, 5615.0, 5534.0, 5451.0, 5463.0, 5383.0, 5679.0, 5344.0, 5682.0, 5281.0, 5562.0, 5348.0, 5602.0, 5632.0, 5297.0, 5396.0, 5423.0, 5720.0, 5252.0, 5363.0, 5701.0, 5466.0, 5295.0, 5499.0, 5643.0, 5331.0, 5251.0, 5624.0, 5616.0, 5286.0, 5431.0, 5370.0, 5599.0, 5375.0, 5391.0, 5470.0, 5392.0, 5649.0, 5276.0, 5532.0, 5426.0, 5472.0, 5489.0, 5408.0, 5458.0, 5265.0, 5273.0, 5683.0, 5414.0, 5366.0, 5704.0, 5554.0, 5266.0, 5594.0, 5355.0, 5255.0, 5358.0, 5450.0, 5480.0, 5560.0, 5576.0, 5260.0, 5258.0, 5542.0, 5384.0, 5374.0, 5301.0, 5498.0, 5619.0, 5565.0, 5655.0, 5659.0, 5654.0, 5388.0, 5422.0, 5680.0, 5691.0, 5290.0, 5328.0, 5478.0, 5545.0, 5477.0 (number of hits: 6)

5580 MHz

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1	30	100 %	60%	Pass
Type 2	30	90 %	60%	Pass
Type 3	30	96.7 %	60%	Pass
Type 4	30	90 %	60%	Pass
Aggregate (Type1 to 4)	120	94.2 %	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	5580	18	1	1428	1
2	5580	18	1	1428	1
3	5580	18	1	1428	1
4	5580	18	1	1428	1
5	5580	18	1	1428	1
6	5580	18	1	1428	1
7	5580	18	1	1428	1
8	5580	18	1	1428	1
9	5580	18	1	1428	1
10	5580	18	1	1428	1
11	5580	18	1	1428	1
12	5580	18	1	1428	1
13	5580	18	1	1428	1
14	5580	18	1	1428	1
15	5580	18	1	1428	1
16	5580	18	1	1428	1
17	5580	18	1	1428	1
18	5580	18	1	1428	1
19	5580	18	1	1428	1
20	5580	18	1	1428	1
21	5580	18	1	1428	1
22	5580	18	1	1428	1
23	5580	18	1	1428	1
24	5580	18	1	1428	1
25	5580	18	1	1428	1
26	5580	18	1	1428	1
27	5580	18	1	1428	1
28	5580	18	1	1428	1
29	5580	18	1	1428	1
30	5580	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	5580	29	2.1	186	0
2	5580	24	3.6	185	1
3	5580	27	4.7	187	1
4	5580	27	3.3	203	1
5	5580	26	1.8	202	1
6	5580	27	3.1	192	1
7	5580	27	2.4	180	1
8	5580	23	4.3	158	1
9	5580	29	2	229	1
10	5580	26	2	158	1
11	5580	29	1.4	218	1
12	5580	24	3.3	177	0
13	5580	24	1.9	170	1
14	5580	27	1.2	207	1
15	5580	28	2.6	180	1
16	5580	25	3.1	157	1
17	5580	27	2.7	182	1
18	5580	23	4.5	188	1
19	5580	24	3.3	193	1
20	5580	23	4.3	185	1
21	5580	26	1.9	212	1
22	5580	27	2.6	203	1
23	5580	23	1.7	190	1
24	5580	26	4.7	223	1
25	5580	25	1.2	166	1
26	5580	24	4.3	154	1
27	5580	26	4	178	1
28	5580	27	4.5	168	1
29	5580	26	1.7	162	0
30	5580	28	4.9	184	1
Detection Percentage: 90% (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5580	18	6.4	392	1
2	5580	16	6.6	406	1
3	5580	18	6.2	314	1
4	5580	16	6.1	278	0
5	5580	18	8.3	451	1
6	5580	18	8.8	303	1
7	5580	18	6.6	259	1
8	5580	18	9.6	344	1
9	5580	17	9.8	281	1
10	5580	16	6.5	431	1
11	5580	17	6.8	244	1
12	5580	16	7.3	415	1
13	5580	18	7.5	394	1
14	5580	16	9.1	344	1
15	5580	16	8.3	282	1
16	5580	18	7.5	500	1
17	5580	16	9.8	447	1
18	5580	16	6.9	386	1
19	5580	16	7.6	444	1
20	5580	16	8	252	1
21	5580	18	9.9	280	1
22	5580	16	7.3	273	1
23	5580	17	9.4	268	1
24	5580	18	9.1	325	1
25	5580	18	8.2	204	1
26	5580	17	9.6	305	1
27	5580	17	9.7	372	1
28	5580	16	6	351	1
29	5580	18	8.5	307	1
30	5580	16	9.5	366	1
Detection Percentage: 96.7 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5580	14	11.9	374	1
2	5580	13	18.8	415	1
3	5580	12	11	223	1
4	5580	14	16.6	482	0
5	5580	12	14.5	222	1
6	5580	13	19.8	416	1
7	5580	12	15.6	307	1
8	5580	16	17.6	490	1
9	5580	14	16.3	393	1
10	5580	13	11.2	230	1
11	5580	14	12.3	272	1
12	5580	16	13.8	309	1
13	5580	15	18	350	0
14	5580	14	12.5	387	1
15	5580	14	19.7	432	1
16	5580	13	18.9	293	1
17	5580	15	15.5	395	1
18	5580	16	18.9	457	1
19	5580	14	17.8	293	1
20	5580	13	17.5	498	1
21	5580	14	11.3	207	1
22	5580	16	11.2	463	1
23	5580	12	12.9	383	1
24	5580	12	16.7	386	0
25	5580	13	11.3	346	1
26	5580	14	15.6	307	1
27	5580	16	11.3	260	1
28	5580	13	14	209	1
29	5580	13	19.6	405	1
30	5580	14	13.2	223	1
Detection Percentage: 90 % (>60%)					

Table-5 Radar Type 5 Statistical Performance
Bin5 Statistics 1

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	7	61.5			1.009065	
1	2	7	52.4	1291		2.048333	
2	2	10	79.7	1395		3.496147	
3	3	20	71.6	1518	1655	4.854658	
4	2	11	84.9	1220		5.795753	
5	3	10	56	1872	1870	7.605282	
6	2	16	84.6	1213		8.177607	1
7	3	8	76.6	1590	1369	10.05227	
8	2	14	82.8	1451		10.72736	
9	1	7	61.5			1.009065	
10	2	7	52.4	1291		2.048333	
11	2	10	79.7	1395		3.496147	
12	3	20	71.6	1518	1655	4.854658	

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	62.5	1009		0.48998	
1	2	15	69	1535		1.034497	
2	1	10	91.3			1.681838	
3	1	16	55.9			2.68288	
4	2	8	54.7	1367		3.917684	
5	1	18	89.5			4.558067	
6	3	8	82	1814	1020	5.22969	
7	2	10	88.6	1019		6.30505	1
8	2	15	80.6	1008		6.549881	
9	1	17	86.6			7.900164	
10	2	11	63.2	1999		8.791035	
11	3	6	65.9	1627	1329	8.915498	
12	2	20	59.3	1972		9.835087	
13	1	15	73			11.04938	
14	3	13	70.9	1507	1303	11.58803	

Bin5 Statistics 3

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	16	62			0.256716	
1	3	12	99.6	1946	1832	0.901879	
2	3	8	54.9	1166	1410	1.902736	
3	1	18	95.6			2.639077	
4	3	10	60	1909	1180	2.831785	
5	1	14	66			4.144199	
6	2	17	54.1	1705		4.34622	
7	3	6	81	1974	1529	5.287781	
8	3	8	78.6	1827	1929	6.319444	1
9	3	12	80.8	1806	1756	6.743548	
10	2	8	61.8	1790		7.30362	
11	2	5	74.1	1317		8.014317	
12	2	6	86.3	1298		9.151647	
13	1	7	93.5			9.321607	
14	2	5	64.1	1709		10.1383	
15	2	19	90.2	1241		10.74652	
16	2	7	79.1	1283		11.57013	

Bin5 Statistics 4

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	13	64.5	1089		0.10955	
1	1	10	55.7			1.047151	
2	2	9	73.3	1160		2.140661	
3	2	6	73.6	1406		2.834329	
4	1	16	65.1			4.577382	
5	2	6	68.4	1066		5.241916	
6	1	15	84.7			6.219889	1
7	2	18	98.9	1300		6.997613	
8	2	11	52.3	1668		7.709493	
9	2	10	81.5	1172		8.875394	
10	1	9	82.8			9.272337	
11	2	6	59.3	1581		10.26153	
12	3	8	56.5	1771	1651	11.54492	

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	16	65	1332		0.077726	1
1	2	19	79.1	1977		1.435111	
2	2	19	71.5	1097		2.734307	
3	1	11	94.5			4.378544	
4	2	13	90.3	1638		5.616668	
5	1	5	75.2			6.931627	
6	3	13	67.6	1300	1738	7.729893	
7	3	5	51	1334	1419	8.659767	
8	2	17	77.3	1950		10.50736	
9	1	10	85.2			10.82417	

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	19	71.4	1594		0.829788	1
1	3	9	81.2	1246	1389	0.86641	
2	3	8	59	1506	1543	1.997359	
3	2	8	50.5	1527		2.67678	
4	2	16	58.8	1711		3.717071	
5	3	9	71.8	1960	1478	4.964735	
6	2	19	55.4	1465		5.325515	
7	1	13	54.1			6.698942	
8	1	9	57.2			7.442871	
9	3	15	82.3	1887	1341	8.059969	
10	1	19	84.6			9.421847	
11	3	16	76.1	1787	1752	9.477659	
12	2	19	95.8	1462		10.41518	
13	3	11	51.5	1737	1203	11.96265	

Bin5 Statistics 7

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	15	52.1	1609		0.429188	
1	3	10	61.5	1202	1882	1.064986	
2	2	6	72.8	1253		1.638691	
3	2	6	74.2	1050		2.247777	
4	2	12	93.1	1330		2.575683	
5	1	19	59.4			3.786283	
6	2	10	90.7	1088		3.930593	
7	2	17	72.8	1032		4.906582	
8	2	12	60.2	1601		5.1483	
9	1	5	68.1			6.279791	1
10	3	19	56.6	1969	1155	6.56808	
11	2	8	75.9	1167		7.131281	
12	1	14	83.9			7.777808	
13	2	19	53.4	1147		8.219599	
14	1	16	50.6			9.325518	
15	3	17	67.9	1266	1499	9.878981	
16	3	16	78.2	1999	1646	10.17246	
17	2	18	81.3	1585		11.35601	
18	2	15	56.7	1163		11.73101	

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	5	52.3			0.896494	
1	2	6	93.4	1455		1.541236	
2	1	12	50.6			2.069035	
3	3	20	77.7	1439	1276	3.104621	
4	1	12	65.4			4.392503	
5	2	7	52	1793		4.89683	
6	2	13	71.2	1114		6.168128	1
7	2	20	76	1665		6.926096	
8	2	6	69.7	1159		7.89334	
9	2	18	70.9	1898		9.164631	
10	3	19	81	1606	1888	10.00597	
11	2	9	91.9	1725		10.6998	
12	2	13	82.6	1682		11.2603	

Bin5 Statistics 9

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	8	90.5	1884	1943	0.035253	
1	3	11	95.2	1982	1697	1.134905	
2	1	13	69.3			1.713494	
3	3	19	80	1809	1729	1.911488	
4	3	10	74.7	1588	1502	2.690497	
5	2	20	92.6	1061		3.541786	
6	2	13	76.9	1002		3.892609	
7	3	18	72	1547	1037	4.716491	
8	1	9	54.5			4.943725	
9	1	17	56.9			5.754795	
10	3	7	99.7	1557	1081	6.292098	1
11	3	20	63.2	1994	1232	6.671011	
12	2	9	54	1877		7.616706	
13	3	14	96.5	1407	1348	8.306545	
14	3	5	71.4	1659	1139	8.844021	
15	1	13	96.9			9.250178	
16	2	14	75.7	1532		9.854158	
17	1	14	93			10.42984	
18	1	13	89.1			11.39557	
19	2	8	96.1	1507		11.81831	

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	65.4	1984		0.361129	
1	3	18	89.6	1769	1441	1.068905	
2	2	8	77.3	1751		1.726689	
3	3	18	70.2	1339	1679	2.16192	
4	2	6	71.5	1817		2.980307	
5	1	16	92.8			3.549421	
6	1	18	59.4			4.269725	
7	1	10	96.4			4.709153	
8	2	14	80.9	1497		5.38361	
9	2	5	97.8	1583		5.730281	1
10	1	8	82.1			6.886354	
11	1	15	52			7.377675	
12	3	10	72.1	1282	1269	7.750485	
13	3	7	68.8	1445	1257	8.321419	
14	3	12	78	1046	1446	9.161675	
15	3	20	81.6	1782	1294	9.833246	
16	1	7	92.5			10.69608	
17	3	18	70.7	1950	1006	11.14	
18	2	5	59.3	1709		11.47361	

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	90.9			0.201786	
1	2	18	76.1	1498		0.659115	
2	2	6	79	1377		1.547072	
3	1	8	92.3			2.106811	
4	1	15	92.3			2.705612	
5	2	8	76.2	1963		3.033408	
6	1	17	99.9			4.172623	
7	2	10	96.9	1425		4.551359	
8	1	9	50.9			5.008882	
9	3	6	92.5	1140	1930	5.947617	
10	2	6	52.4	1025		6.323787	1
11	2	8	72.7	1010		6.839107	
12	2	16	62.4	1692		7.721531	
13	3	16	70.8	1474	1198	8.093533	
14	2	7	71.2	1578		8.850222	
15	2	10	85.8	1113		9.216138	
16	2	7	72.8	1096		9.71964	
17	2	12	51.1	1825		10.55509	
18	2	12	76.9	1858		11.23402	
19	2	18	64	1766		11.79637	

Bin5 Statistics 12

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	13	65.5	1123		0.589894	
1	1	11	94.7			0.802413	
2	2	12	85.8	1243		1.728775	
3	2	17	55.2	1712		2.979205	
4	2	20	93.2	1318		3.622254	
5	1	5	92.7			4.742443	
6	2	8	83.3	1035		5.202907	
7	2	11	99.2	1501		5.846853	1
8	1	19	80.7			7.141068	
9	2	18	73.7	1579		7.528921	
10	3	11	69.3	1235	1197	8.615203	
11	2	11	88	1380		9.306943	
12	2	6	78.1	1602		10.18457	
13	3	18	51.8	1628	1733	10.59504	
14	3	10	62	1639	1113	11.32764	

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	10	63.4			0.51537	
1	3	10	95	1770	1285	1.558524	
2	3	20	96	1066	1090	2.553852	
3	2	7	62.5	1234		3.164273	
4	3	13	95.4	1495	1901	4.070424	
5	3	9	52.2	1084	1263	4.379697	
6	2	12	55.7	1330		5.575074	
7	1	19	84.1			6.291152	1
8	3	14	82	1222	1550	7.499709	
9	2	13	81.1	1619		8.092776	
10	2	16	50.4	1097		8.967165	
11	1	19	89.5			10.17461	
12	2	16	70.2	1620		10.78883	
13	3	16	62.6	1763	1177	11.28446	

Bin5 Statistics 14

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	10	81.7	1708		0.259073	1
1	2	12	70.6	1656		1.920485	
2	2	15	66	1001		2.809064	
3	2	11	94.6	1916		3.586964	
4	3	13	99.7	1784	1970	4.806573	
5	1	16	65.8			5.237853	
6	3	17	71.1	1657	1492	6.606941	
7	3	15	57.2	1619	1729	7.475739	
8	2	15	86.5	1349		8.956529	
9	3	16	79.6	1723	1800	9.904675	
10	3	12	74.1	1595	1015	10.41061	
11	1	7	66.8			11.70055	

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	12	56.4	1443	1132	0.086974	1
1	3	11	80.6	1439	1061	1.301243	
2	1	15	80.6			2.607408	
3	3	7	60	1229	1978	3.135068	
4	2	18	65.6	1422		4.066418	
5	3	14	73.1	1594	1739	5.154591	
6	2	9	77.4	1754		6.399121	
7	3	16	51.4	1815	1240	7.913276	
8	2	7	98	1986		8.151666	
9	2	15	83.6	1101		9.471199	
10	2	7	63.6	1703		10.50981	
11	2	19	69.8	1134		11.21902	

Bin5 Statistics 16

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	12	58.9	1378		0.493523	
1	1	11	88			1.974631	
2	2	17	92.3	1045		2.857474	
3	1	5	70			3.573189	
4	2	17	93.7	1191		5.153651	
5	3	15	53.6	1941	1998	5.748955	1
6	3	13	66.3	1855	1878	6.610273	
7	3	10	69.4	1191	1838	8.510761	
8	1	8	73.1			9.319033	
9	1	11	85.8			10.78081	
10	2	13	86.8	1068		11.89608	

Bin5 Statistics 17

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	8	88.9	1141	1200	0.515867	
1	1	5	72.5			2.103095	
2	3	14	68.4	1854	1090	2.528551	
3	2	8	75.2	1375		4.211826	
4	2	20	96.2	1602		5.794227	1
5	2	11	62.2	1660		6.071446	
6	2	20	66.7	1063		7.41639	
7	2	14	57.8	1015		8.616448	
8	1	19	90.6			10.4725	
9	2	13	60.9	1104		11.30853	

Bin5 Statistics 18

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	19	60.8	1485	1374	0.04576	1
1	2	20	78.8	1380		1.183965	
2	3	19	77.5	1047	1753	2.63795	
3	2	7	73.9	1046		3.262189	
4	2	8	59	1798		4.463461	
5	2	14	88.5	1869		5.0287	
6	3	8	76.9	1749	1282	6.885176	
7	3	19	61.9	1348	1057	7.1229	
8	1	19	90.8			8.426266	
9	1	7	74.3			9.190548	
10	3	16	62.8	1461	1213	10.39945	
11	2	12	57.4	1936		11.5174	

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	6	50.8	1268	1893	0.681138	1
1	1	14	86.2			1.991943	
2	3	13	73.1	1167	1874	2.886591	
3	2	16	79.6	1193		4.191925	
4	1	18	86.1			4.996218	
5	2	6	52.1	1849		6.279798	
6	3	14	54.8	1394	1744	7.220803	
7	2	14	91.4	1659		8.746368	
8	2	5	76.9	1097		9.650139	
9	3	15	81.7	1991	1830	11.98003	

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	10	96.8	1072		0.388416	1
1	2	10	92.6	1339		1.613478	
2	3	20	50.4	1809	1899	2.378271	
3	2	13	76.2	1592		2.774261	
4	3	18	52	1844	1142	4.246481	
5	2	7	84.4	1357		4.420095	
6	2	7	85	1647		5.57367	
7	2	16	70	1537		6.351539	
8	3	9	50.9	1682	1875	7.098354	
9	3	16	57.4	1870	1642	8.273368	
10	3	7	57	1267	1391	9.408401	
11	3	16	88.9	1861	1445	9.906169	
12	2	6	52.3	1824		11.00866	
13	2	7	97.5	1148		11.94384	

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	16	55.1			0.531889	
1	2	13	51.5	1589		1.250778	
2	2	16	65.3	1396		1.532092	
3	2	18	69.9	1368		2.079495	
4	3	20	83.5	1494	1416	3.146518	
5	1	19	90.9			3.690406	
6	2	16	51.8	1988		3.915699	
7	2	17	65	1211		4.873742	
8	3	13	99.2	1679	1921	5.616378	
9	2	16	64.2	1670		5.743864	1
10	1	8	70.2			6.400664	
11	3	7	97	1396	1441	6.967326	
12	2	16	58	1633		8.173496	
13	1	19	79.6			8.486546	
14	3	20	53.9	1220	1131	9.047915	
15	1	12	73.7			9.882827	
16	1	11	64.2			10.65096	
17	2	12	89	1490		10.74106	
18	1	14	84.2			11.78281	

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	5	83.6			1.25965	
1	2	13	60.9	1783		1.664406	
2	1	12	80.2			3.538725	
3	2	7	98.4	1081		5.09208	
4	3	6	63.5	1770	1034	5.680146	1
5	2	18	75.6	1373		7.022226	
6	1	5	67.9			9.103289	
7	2	13	79.8	1371		9.43443	
8	2	9	78.8	1586		11.56471	

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	11	62.6	1819		0.03371	1
1	2	7	53.1	1393		1.031083	
2	2	14	98.5	1568		1.598045	
3	2	14	97.2	1428		2.174475	
4	2	18	83.3	1410		3.006531	
5	3	11	93.7	1272	1196	3.470865	
6	1	6	64			4.184763	
7	2	12	81.5	1110		4.727877	
8	2	19	98.3	1717		5.544775	
9	2	19	86.2	1487		6.01177	
10	1	20	95.1			6.917221	
11	3	8	69.6	1990	1883	7.540135	
12	3	10	62.5	1693	1770	7.886114	
13	2	7	65.9	1234		8.816869	
14	2	19	79.3	1797		9.212201	
15	2	9	70.4	1455		9.60537	
16	2	8	64.4	1830		10.63249	
17	2	14	92.2	1587		10.92628	
18	1	8	67.6			11.95056	

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	18	88.4	1861		0.870426	1
1	1	18	62			1.986463	
2	1	17	98.3			2.807073	
3	2	8	98	1895		3.05938	
4	2	19	78.6	1392		4.764427	
5	2	12	79.3	1730		5.843686	
6	3	6	75.5	1867	1590	6.685474	
7	1	18	62.2			7.658142	
8	2	9	64.8	1589		8.596362	
9	1	13	86.4			9.073377	
10	2	14	55.3	1099		10.62226	
11	2	19	63.2	1662		11.29427	

Bin5 Statistics 25

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	8	92.7			0.391503	
1	3	12	95.4	1487	1130	1.739559	
2	3	15	87	1031	1894	2.276843	
3	2	12	89.3	1125		3.659934	
4	2	12	62.4	1972		4.622163	
5	1	8	77.5			5.584732	1
6	1	16	80.6			7.430955	
7	2	5	90.5	1768		8.479918	
8	2	7	57.9	1540		8.895583	
9	3	7	52.7	1297	1901	10.36006	
10	2	17	93.7	1634		11.47211	

Bin5 Statistics 26

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	9	57.9	1425		0.92084	
1	1	5	59.8			1.469887	
2	2	12	78.4	1782		2.278182	
3	3	10	82.7	1836	1859	3.011252	
4	3	17	86.7	1728	1301	4.484623	
5	3	6	51.7	1324	1292	5.702942	
6	3	6	86.6	1906	1002	6.329931	1
7	1	8	80.3			7.373044	
8	2	7	74.5	1359		8.253911	
9	3	9	98.8	1976	1163	9.27062	
10	1	13	94.4			10.59636	
11	1	8	62.1			11.06575	

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	9	81.5	1294	1279	0.487109	
1	1	14	80.2			1.015989	
2	2	7	73.6	1709		1.587117	
3	2	18	73.9	1346		1.896578	
4	3	13	66.8	1741	1569	3.044934	
5	3	10	95.6	1259	1144	3.756308	
6	1	18	75.9			4.021689	
7	2	9	95.9	1211		4.848507	
8	2	5	70.3	1939		5.254394	
9	1	17	59.8			6.294628	1
10	3	11	81.4	1650	1432	6.839999	
11	2	17	80.1	1795		7.080086	
12	2	8	53.4	1501		7.905553	
13	2	16	70.5	1233		8.78755	
14	1	8	95.6			9.144735	
15	2	10	73.6	1412		9.660206	
16	2	18	95.9	1432		10.5169	
17	2	12	93.3	1665		11.23853	
18	1	18	53.8			11.61984	

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	15	56.7	1810	1159	0.710418	
1	2	8	75.1	1535		1.550929	
2	2	15	89.1	1083		3.468519	
3	2	15	58	1879		4.040231	
4	2	7	70.9	1133		5.943752	1
5	2	11	74.4	1184		6.947579	
6	2	11	69.1	1986		8.148457	
7	1	14	65.8			9.432037	
8	3	15	78.5	1600	1787	10.80602	

Bin5 Statistics 29

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	16	74.2	1675		1.008268	
1	2	10	70.2	1355		1.96918	
2	2	19	99.7	1855		4.311887	
3	2	9	66.9	1825		5.453901	
4	2	16	75.7	1334		6.579726	1
5	2	18	83.5	1544		7.751321	
6	3	11	79.9	1037	1031	9.596891	
7	2	7	52.3	1797		10.99439	

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	90	1361		0.298125	1
1	2	6	89.9	1686		1.644899	
2	3	9	67.3	1941	1187	2.158414	
3	1	10	85.8			2.926318	
4	2	17	81	1956		3.686428	
5	3	16	76.6	1626	1804	4.80482	
6	1	17	80.9			5.458059	
7	2	12	96.8	1893		6.199144	
8	2	8	60.1	1047		6.988768	
9	1	8	79.6			7.95443	
10	1	16	91.4			8.686898	
11	2	7	82.4	1257		10.17149	
12	2	19	53	1207		10.67699	
13	3	10	92.9	1703	1843	11.61004	

Table-6 Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)	Hopping Sequence
1	5580	9	1	333	1	5290.0, 5631.0, 5646.0, 5536.0, 5321.0, 5547.0, 5612.0, 5533.0, 5254.0, 5508.0, 5601.0, 5616.0, 5707.0, 5435.0, 5438.0, 5345.0, 5588.0, 5387.0, 5289.0, 5454.0, 5507.0, 5418.0, 5527.0, 5493.0, 5423.0, 5582.0, 5558.0, 5567.0, 5537.0, 5515.0, 5607.0, 5548.0, 5353.0, 5429.0, 5358.0, 5609.0, 5437.0, 5450.0, 5360.0, 5469.0, 5313.0, 5477.0, 5376.0, 5338.0, 5622.0, 5512.0, 5587.0, 5281.0, 5356.0, 5422.0, 5611.0, 5716.0, 5430.0, 5662.0, 5383.0, 5397.0, 5684.0, 5518.0, 5466.0, 5551.0, 5655.0, 5406.0, 5476.0, 5589.0, 5603.0, 5693.0, 5351.0, 5390.0, 5692.0, 5312.0, 5301.0, 5689.0, 5709.0, 5717.0, 5322.0, 5722.0, 5302.0, 5682.0, 5705.0, 5433.0, 5594.0, 5645.0, 5638.0, 5575.0, 5619.0, 5686.0, 5634.0, 5605.0, 5543.0, 5555.0, 5425.0, 5683.0, 5346.0, 5671.0, 5724.0, 5649.0, 5644.0, 5467.0, 5492.0, 5557.0 (number of hits: 6)
2	5580	9	1	333	1	5282.0, 5580.0, 5473.0, 5679.0, 5659.0, 5703.0, 5522.0, 5395.0, 5588.0, 5308.0, 5467.0, 5665.0, 5550.0, 5521.0, 5422.0, 5549.0, 5378.0, 5507.0, 5366.0, 5548.0, 5674.0, 5310.0, 5715.0, 5717.0, 5699.0, 5607.0, 5415.0, 5596.0, 5392.0, 5421.0, 5261.0, 5275.0, 5600.0, 5682.0, 5646.0, 5397.0, 5263.0, 5655.0, 5472.0, 5484.0, 5693.0, 5543.0, 5606.0, 5431.0, 5525.0, 5285.0, 5279.0, 5702.0, 5370.0, 5368.0, 5574.0, 5295.0, 5406.0, 5259.0, 5613.0, 5436.0, 5508.0, 5644.0, 5251.0, 5348.0, 5486.0, 5698.0, 5457.0, 5620.0, 5425.0, 5409.0, 5575.0, 5579.0, 5357.0, 5529.0, 5707.0, 5272.0, 5410.0, 5372.0, 5689.0, 5390.0, 5407.0, 5722.0, 5630.0, 5555.0, 5325.0, 5304.0, 5361.0, 5530.0, 5546.0, 5667.0, 5330.0, 5653.0, 5627.0, 5688.0, 5602.0, 5577.0, 5419.0, 5264.0, 5625.0, 5567.0, 5532.0, 5456.0, 5576.0, 5488.0 (number of hits: 5)
3	5580	9	1	333	1	5542.0, 5344.0, 5485.0, 5629.0, 5701.0, 5285.0, 5452.0, 5554.0, 5555.0, 5546.0, 5451.0, 5596.0, 5668.0, 5425.0, 5450.0, 5556.0, 5676.0, 5581.0, 5360.0, 5702.0, 5270.0, 5609.0, 5286.0, 5274.0, 5578.0, 5636.0, 5593.0, 5328.0, 5466.0, 5289.0, 5587.0, 5648.0, 5679.0, 5439.0, 5620.0, 5573.0, 5651.0, 5495.0, 5683.0, 5318.0, 5584.0, 5607.0, 5672.0, 5411.0, 5619.0, 5256.0, 5456.0, 5617.0, 5426.0, 5345.0, 5548.0, 5666.0, 5643.0, 5644.0, 5298.0,

						5503.0, 5719.0, 5392.0, 5259.0, 5576.0, 5654.0, 5356.0, 5641.0, 5567.0, 5657.0, 5410.0, 5445.0, 5350.0, 5652.0, 5504.0, 5553.0, 5500.0, 5530.0, 5302.0, 5479.0, 5632.0, 5394.0, 5308.0, 5380.0, 5634.0, 5421.0, 5594.0, 5379.0, 5408.0, 5262.0, 5635.0, 5361.0, 5569.0, 5595.0, 5343.0, 5304.0, 5338.0, 5294.0, 5460.0, 5523.0, 5400.0, 5431.0, 5313.0, 5481.0, 5404.0 (number of hits: 9)
4	5580	9	1	333	1	5402.0, 5346.0, 5329.0, 5413.0, 5569.0, 5611.0, 5529.0, 5617.0, 5334.0, 5717.0, 5347.0, 5613.0, 5677.0, 5531.0, 5417.0, 5649.0, 5478.0, 5559.0, 5319.0, 5563.0, 5588.0, 5534.0, 5571.0, 5490.0, 5361.0, 5322.0, 5317.0, 5583.0, 5716.0, 5557.0, 5475.0, 5715.0, 5626.0, 5349.0, 5707.0, 5545.0, 5439.0, 5321.0, 5502.0, 5492.0, 5697.0, 5279.0, 5357.0, 5539.0, 5466.0, 5367.0, 5426.0, 5577.0, 5299.0, 5509.0, 5515.0, 5374.0, 5679.0, 5384.0, 5442.0, 5400.0, 5435.0, 5578.0, 5464.0, 5694.0, 5318.0, 5275.0, 5449.0, 5351.0, 5422.0, 5436.0, 5518.0, 5460.0, 5630.0, 5522.0, 5579.0, 5703.0, 5256.0, 5537.0, 5538.0, 5445.0, 5619.0, 5624.0, 5567.0, 5659.0, 5648.0, 5638.0, 5519.0, 5380.0, 5438.0, 5687.0, 5283.0, 5472.0, 5481.0, 5254.0, 5304.0, 5474.0, 5646.0, 5616.0, 5307.0, 5396.0, 5523.0, 5681.0, 5524.0, 5418.0 (number of hits: 3)
5	5580	9	1	333	1	5322.0, 5286.0, 5714.0, 5495.0, 5343.0, 5307.0, 5367.0, 5350.0, 5312.0, 5590.0, 5649.0, 5625.0, 5660.0, 5710.0, 5344.0, 5280.0, 5618.0, 5632.0, 5663.0, 5492.0, 5508.0, 5512.0, 5522.0, 5490.0, 5521.0, 5597.0, 5252.0, 5331.0, 5253.0, 5466.0, 5457.0, 5652.0, 5262.0, 5477.0, 5314.0, 5572.0, 5451.0, 5680.0, 5689.0, 5270.0, 5491.0, 5533.0, 5274.0, 5591.0, 5269.0, 5298.0, 5686.0, 5624.0, 5647.0, 5424.0, 5309.0, 5440.0, 5573.0, 5504.0, 5695.0, 5639.0, 5616.0, 5588.0, 5357.0, 5337.0, 5328.0, 5266.0, 5294.0, 5630.0, 5293.0, 5583.0, 5604.0, 5620.0, 5642.0, 5303.0, 5581.0, 5444.0, 5329.0, 5662.0, 5556.0, 5484.0, 5419.0, 5574.0, 5250.0, 5356.0, 5446.0, 5551.0, 5431.0, 5698.0, 5564.0, 5594.0, 5559.0, 5267.0, 5720.0, 5300.0, 5409.0, 5304.0, 5471.0, 5631.0, 5667.0, 5429.0, 5295.0, 5256.0, 5448.0, 5434.0 (number of hits: 12)
6	5580	9	1	333	1	5491.0, 5419.0, 5263.0, 5690.0, 5292.0, 5315.0, 5661.0, 5480.0, 5262.0, 5287.0, 5515.0, 5392.0, 5530.0, 5630.0, 5413.0, 5572.0, 5312.0, 5350.0, 5307.0, 5508.0, 5591.0, 5420.0, 5566.0, 5448.0, 5533.0, 5578.0, 5717.0, 5456.0, 5380.0, 5458.0,

						5593.0, 5417.0, 5575.0, 5516.0, 5510.0, 5501.0, 5590.0, 5304.0, 5415.0, 5449.0, 5612.0, 5462.0, 5250.0, 5545.0, 5540.0, 5702.0, 5645.0, 5607.0, 5467.0, 5313.0, 5514.0, 5695.0, 5404.0, 5700.0, 5539.0, 5478.0, 5398.0, 5502.0, 5324.0, 5358.0, 5327.0, 5345.0, 5387.0, 5464.0, 5297.0, 5674.0, 5669.0, 5648.0, 5457.0, 5489.0, 5602.0, 5495.0, 5563.0, 5435.0, 5264.0, 5311.0, 5418.0, 5437.0, 5389.0, 5361.0, 5576.0, 5447.0, 5581.0, 5303.0, 5364.0, 5608.0, 5406.0, 5424.0, 5390.0, 5642.0, 5463.0, 5434.0, 5543.0, 5384.0, 5588.0, 5682.0, 5585.0, 5596.0, 5499.0, 5620.0 (number of hits: 9)
7	5580	9	1	333	1	5651.0, 5517.0, 5337.0, 5292.0, 5538.0, 5676.0, 5612.0, 5547.0, 5622.0, 5452.0, 5372.0, 5702.0, 5714.0, 5583.0, 5490.0, 5509.0, 5412.0, 5314.0, 5616.0, 5359.0, 5389.0, 5401.0, 5721.0, 5358.0, 5365.0, 5257.0, 5554.0, 5520.0, 5674.0, 5511.0, 5636.0, 5317.0, 5608.0, 5316.0, 5469.0, 5646.0, 5535.0, 5598.0, 5596.0, 5698.0, 5377.0, 5715.0, 5298.0, 5532.0, 5528.0, 5319.0, 5484.0, 5539.0, 5722.0, 5629.0, 5313.0, 5348.0, 5480.0, 5564.0, 5426.0, 5269.0, 5302.0, 5407.0, 5536.0, 5299.0, 5373.0, 5310.0, 5485.0, 5495.0, 5657.0, 5607.0, 5595.0, 5693.0, 5653.0, 5259.0, 5361.0, 5278.0, 5620.0, 5540.0, 5479.0, 5524.0, 5585.0, 5602.0, 5451.0, 5370.0, 5320.0, 5381.0, 5355.0, 5576.0, 5291.0, 5350.0, 5486.0, 5705.0, 5272.0, 5707.0, 5475.0, 5329.0, 5380.0, 5258.0, 5593.0, 5416.0, 5504.0, 5295.0, 5623.0, 5431.0 (number of hits: 9)
8	5580	9	1	333	1	5267.0, 5523.0, 5718.0, 5385.0, 5615.0, 5638.0, 5620.0, 5299.0, 5423.0, 5719.0, 5461.0, 5664.0, 5557.0, 5644.0, 5348.0, 5538.0, 5663.0, 5424.0, 5417.0, 5355.0, 5606.0, 5448.0, 5655.0, 5716.0, 5333.0, 5350.0, 5593.0, 5375.0, 5555.0, 5622.0, 5713.0, 5329.0, 5435.0, 5618.0, 5690.0, 5563.0, 5564.0, 5297.0, 5402.0, 5341.0, 5301.0, 5302.0, 5651.0, 5576.0, 5284.0, 5466.0, 5292.0, 5535.0, 5415.0, 5468.0, 5451.0, 5619.0, 5573.0, 5371.0, 5311.0, 5445.0, 5433.0, 5367.0, 5406.0, 5370.0, 5511.0, 5527.0, 5668.0, 5503.0, 5528.0, 5574.0, 5446.0, 5696.0, 5559.0, 5450.0, 5613.0, 5304.0, 5398.0, 5314.0, 5665.0, 5709.0, 5454.0, 5649.0, 5554.0, 5306.0, 5279.0, 5391.0, 5384.0, 5512.0, 5565.0, 5498.0, 5517.0, 5356.0, 5360.0, 5703.0, 5586.0, 5270.0, 5616.0, 5598.0, 5345.0, 5588.0, 5710.0, 5691.0, 5670.0, 5682.0 (number of hits: 9)
9	5580	9	1	333	1	5434.0, 5685.0, 5325.0, 5501.0, 5510.0,

						5408.0, 5541.0, 5681.0, 5722.0, 5391.0, 5511.0, 5278.0, 5456.0, 5269.0, 5460.0, 5695.0, 5645.0, 5304.0, 5525.0, 5282.0, 5689.0, 5506.0, 5684.0, 5339.0, 5499.0, 5437.0, 5378.0, 5545.0, 5316.0, 5436.0, 5402.0, 5643.0, 5294.0, 5686.0, 5380.0, 5405.0, 5632.0, 5704.0, 5398.0, 5299.0, 5584.0, 5303.0, 5473.0, 5507.0, 5257.0, 5658.0, 5700.0, 5512.0, 5259.0, 5646.0, 5347.0, 5655.0, 5281.0, 5360.0, 5505.0, 5465.0, 5264.0, 5258.0, 5652.0, 5705.0, 5471.0, 5606.0, 5482.0, 5485.0, 5292.0, 5625.0, 5660.0, 5297.0, 5715.0, 5564.0, 5573.0, 5710.0, 5440.0, 5698.0, 5351.0, 5496.0, 5492.0, 5298.0, 5280.0, 5455.0, 5664.0, 5516.0, 5399.0, 5323.0, 5409.0, 5538.0, 5662.0, 5556.0, 5412.0, 5479.0, 5601.0, 5442.0, 5474.0, 5429.0, 5589.0, 5683.0, 5302.0, 5267.0, 5453.0, 5423.0 (number of hits: 8)
10	5580	9	1	333	1	5542.0, 5512.0, 5444.0, 5384.0, 5673.0, 5559.0, 5336.0, 5599.0, 5470.0, 5302.0, 5555.0, 5283.0, 5366.0, 5672.0, 5435.0, 5252.0, 5551.0, 5662.0, 5400.0, 5261.0, 5437.0, 5622.0, 5712.0, 5433.0, 5268.0, 5582.0, 5557.0, 5707.0, 5445.0, 5270.0, 5693.0, 5303.0, 5489.0, 5478.0, 5508.0, 5317.0, 5538.0, 5462.0, 5628.0, 5605.0, 5475.0, 5608.0, 5368.0, 5371.0, 5671.0, 5695.0, 5488.0, 5675.0, 5459.0, 5259.0, 5480.0, 5492.0, 5668.0, 5320.0, 5404.0, 5450.0, 5717.0, 5414.0, 5354.0, 5458.0, 5682.0, 5657.0, 5463.0, 5411.0, 5347.0, 5703.0, 5620.0, 5539.0, 5700.0, 5577.0, 5604.0, 5502.0, 5308.0, 5324.0, 5374.0, 5271.0, 5402.0, 5284.0, 5487.0, 5438.0, 5525.0, 5601.0, 5606.0, 5455.0, 5351.0, 5571.0, 5575.0, 5331.0, 5653.0, 5614.0, 5304.0, 5453.0, 5267.0, 5572.0, 5332.0, 5344.0, 5709.0, 5648.0, 5698.0, 5394.0 (number of hits: 4)
11	5580	9	1	333	1	5440.0, 5501.0, 5303.0, 5282.0, 5504.0, 5265.0, 5328.0, 5539.0, 5426.0, 5546.0, 5566.0, 5593.0, 5498.0, 5327.0, 5601.0, 5276.0, 5577.0, 5463.0, 5680.0, 5344.0, 5386.0, 5476.0, 5703.0, 5632.0, 5541.0, 5542.0, 5659.0, 5287.0, 5479.0, 5654.0, 5383.0, 5594.0, 5433.0, 5330.0, 5701.0, 5467.0, 5317.0, 5496.0, 5279.0, 5569.0, 5486.0, 5545.0, 5572.0, 5531.0, 5625.0, 5416.0, 5254.0, 5720.0, 5687.0, 5409.0, 5589.0, 5653.0, 5563.0, 5278.0, 5418.0, 5259.0, 5466.0, 5326.0, 5272.0, 5413.0, 5269.0, 5376.0, 5648.0, 5377.0, 5707.0, 5491.0, 5512.0, 5500.0, 5681.0, 5459.0, 5640.0, 5397.0, 5331.0, 5441.0, 5341.0, 5489.0, 5676.0, 5665.0, 5268.0, 5582.0, 5443.0, 5645.0, 5324.0, 5712.0, 5596.0,

						5615.0, 5657.0, 5400.0, 5253.0, 5717.0, 5507.0, 5497.0, 5306.0, 5477.0, 5474.0, 5295.0, 5313.0, 5301.0, 5258.0, 5575.0 (number of hits: 6)
12	5580	9	1	333	1	5274.0, 5606.0, 5317.0, 5597.0, 5571.0, 5367.0, 5410.0, 5398.0, 5428.0, 5599.0, 5475.0, 5406.0, 5381.0, 5344.0, 5290.0, 5331.0, 5297.0, 5622.0, 5451.0, 5649.0, 5473.0, 5714.0, 5294.0, 5548.0, 5560.0, 5295.0, 5334.0, 5586.0, 5438.0, 5708.0, 5251.0, 5389.0, 5709.0, 5666.0, 5309.0, 5424.0, 5592.0, 5403.0, 5595.0, 5304.0, 5670.0, 5603.0, 5547.0, 5298.0, 5413.0, 5378.0, 5273.0, 5514.0, 5672.0, 5478.0, 5525.0, 5345.0, 5353.0, 5468.0, 5653.0, 5565.0, 5528.0, 5377.0, 5626.0, 5488.0, 5630.0, 5453.0, 5444.0, 5307.0, 5315.0, 5664.0, 5434.0, 5610.0, 5366.0, 5684.0, 5423.0, 5690.0, 5566.0, 5679.0, 5347.0, 5660.0, 5641.0, 5676.0, 5723.0, 5673.0, 5537.0, 5665.0, 5433.0, 5257.0, 5432.0, 5460.0, 5467.0, 5305.0, 5594.0, 5643.0, 5577.0, 5685.0, 5553.0, 5282.0, 5387.0, 5625.0, 5349.0, 5302.0, 5364.0, 5476.0 (number of hits: 10)
13	5580	9	1	333	1	5351.0, 5401.0, 5713.0, 5280.0, 5641.0, 5565.0, 5678.0, 5618.0, 5327.0, 5476.0, 5390.0, 5328.0, 5257.0, 5675.0, 5252.0, 5559.0, 5339.0, 5421.0, 5288.0, 5586.0, 5469.0, 5677.0, 5589.0, 5302.0, 5470.0, 5660.0, 5256.0, 5287.0, 5375.0, 5523.0, 5637.0, 5574.0, 5274.0, 5659.0, 5467.0, 5609.0, 5617.0, 5578.0, 5392.0, 5581.0, 5380.0, 5497.0, 5442.0, 5645.0, 5304.0, 5262.0, 5437.0, 5623.0, 5681.0, 5528.0, 5379.0, 5663.0, 5650.0, 5439.0, 5611.0, 5691.0, 5505.0, 5619.0, 5687.0, 5374.0, 5692.0, 5564.0, 5702.0, 5348.0, 5686.0, 5551.0, 5468.0, 5447.0, 5646.0, 5507.0, 5301.0, 5502.0, 5444.0, 5647.0, 5655.0, 5429.0, 5357.0, 5461.0, 5484.0, 5410.0, 5621.0, 5451.0, 5605.0, 5540.0, 5696.0, 5682.0, 5450.0, 5665.0, 5409.0, 5378.0, 5406.0, 5651.0, 5316.0, 5342.0, 5527.0, 5462.0, 5433.0, 5705.0, 5626.0, 5520.0 (number of hits: 5)
14	5580	9	1	333	1	5480.0, 5424.0, 5252.0, 5435.0, 5587.0, 5616.0, 5286.0, 5599.0, 5400.0, 5658.0, 5654.0, 5711.0, 5254.0, 5671.0, 5487.0, 5641.0, 5356.0, 5290.0, 5681.0, 5683.0, 5445.0, 5284.0, 5320.0, 5664.0, 5423.0, 5576.0, 5491.0, 5474.0, 5519.0, 5336.0, 5452.0, 5538.0, 5529.0, 5716.0, 5278.0, 5441.0, 5579.0, 5527.0, 5357.0, 5285.0, 5535.0, 5394.0, 5390.0, 5595.0, 5702.0, 5679.0, 5422.0, 5257.0, 5291.0, 5544.0, 5340.0, 5567.0, 5625.0, 5337.0, 5553.0, 5359.0, 5705.0, 5350.0, 5360.0, 5475.0,

						5347.0, 5294.0, 5640.0, 5449.0, 5468.0, 5622.0, 5351.0, 5624.0, 5688.0, 5630.0, 5685.0, 5540.0, 5406.0, 5706.0, 5479.0, 5584.0, 5327.0, 5289.0, 5255.0, 5393.0, 5583.0, 5677.0, 5601.0, 5266.0, 5639.0, 5367.0, 5263.0, 5566.0, 5524.0, 5615.0, 5369.0, 5385.0, 5342.0, 5513.0, 5450.0, 5316.0, 5490.0, 5602.0, 5272.0, 5476.0 (number of hits: 6)
15	5580	9	1	333	1	5552.0, 5723.0, 5373.0, 5319.0, 5634.0, 5703.0, 5632.0, 5407.0, 5538.0, 5330.0, 5672.0, 5475.0, 5575.0, 5438.0, 5697.0, 5684.0, 5535.0, 5420.0, 5280.0, 5323.0, 5362.0, 5312.0, 5434.0, 5348.0, 5485.0, 5302.0, 5283.0, 5439.0, 5295.0, 5623.0, 5369.0, 5681.0, 5463.0, 5659.0, 5455.0, 5707.0, 5598.0, 5346.0, 5506.0, 5594.0, 5505.0, 5648.0, 5415.0, 5256.0, 5620.0, 5313.0, 5557.0, 5374.0, 5368.0, 5513.0, 5692.0, 5375.0, 5357.0, 5518.0, 5281.0, 5710.0, 5363.0, 5447.0, 5540.0, 5562.0, 5425.0, 5477.0, 5390.0, 5361.0, 5628.0, 5379.0, 5503.0, 5660.0, 5654.0, 5584.0, 5316.0, 5468.0, 5515.0, 5655.0, 5262.0, 5652.0, 5406.0, 5698.0, 5404.0, 5446.0, 5569.0, 5339.0, 5531.0, 5329.0, 5273.0, 5381.0, 5675.0, 5311.0, 5713.0, 5372.0, 5507.0, 5385.0, 5416.0, 5401.0, 5599.0, 5494.0, 5254.0, 5419.0, 5267.0, 5573.0 (number of hits: 5)
16	5580	9	1	333	1	5381.0, 5551.0, 5368.0, 5628.0, 5547.0, 5723.0, 5263.0, 5582.0, 5408.0, 5326.0, 5459.0, 5650.0, 5365.0, 5691.0, 5351.0, 5398.0, 5349.0, 5649.0, 5275.0, 5652.0, 5586.0, 5462.0, 5418.0, 5442.0, 5693.0, 5399.0, 5432.0, 5515.0, 5273.0, 5635.0, 5487.0, 5494.0, 5710.0, 5701.0, 5707.0, 5415.0, 5686.0, 5669.0, 5354.0, 5367.0, 5716.0, 5366.0, 5358.0, 5274.0, 5369.0, 5605.0, 5508.0, 5626.0, 5338.0, 5616.0, 5577.0, 5401.0, 5475.0, 5614.0, 5344.0, 5621.0, 5584.0, 5413.0, 5659.0, 5391.0, 5565.0, 5449.0, 5283.0, 5591.0, 5277.0, 5542.0, 5301.0, 5509.0, 5297.0, 5332.0, 5348.0, 5569.0, 5561.0, 5388.0, 5673.0, 5335.0, 5440.0, 5294.0, 5394.0, 5570.0, 5463.0, 5620.0, 5464.0, 5435.0, 5496.0, 5291.0, 5331.0, 5520.0, 5708.0, 5313.0, 5451.0, 5265.0, 5660.0, 5486.0, 5489.0, 5258.0, 5724.0, 5559.0, 5377.0, 5536.0 (number of hits: 5)
17	5580	9	1	333	1	5536.0, 5284.0, 5334.0, 5520.0, 5559.0, 5464.0, 5698.0, 5465.0, 5574.0, 5719.0, 5532.0, 5477.0, 5600.0, 5506.0, 5356.0, 5368.0, 5674.0, 5396.0, 5282.0, 5251.0, 5678.0, 5613.0, 5335.0, 5552.0, 5412.0, 5456.0, 5264.0, 5265.0, 5553.0, 5279.0, 5612.0, 5429.0, 5403.0, 5431.0, 5424.0,

						5423.0, 5541.0, 5492.0, 5723.0, 5287.0, 5491.0, 5454.0, 5499.0, 5446.0, 5308.0, 5373.0, 5583.0, 5625.0, 5401.0, 5701.0, 5326.0, 5320.0, 5580.0, 5694.0, 5387.0, 5485.0, 5394.0, 5439.0, 5312.0, 5660.0, 5608.0, 5359.0, 5509.0, 5642.0, 5569.0, 5332.0, 5718.0, 5328.0, 5466.0, 5599.0, 5468.0, 5697.0, 5497.0, 5310.0, 5307.0, 5695.0, 5348.0, 5646.0, 5512.0, 5263.0, 5516.0, 5355.0, 5575.0, 5521.0, 5300.0, 5260.0, 5502.0, 5619.0, 5498.0, 5367.0, 5610.0, 5675.0, 5467.0, 5445.0, 5380.0, 5666.0, 5587.0, 5383.0, 5710.0, 5558.0 (number of hits: 6)
18	5580	9	1	333	1	5619.0, 5592.0, 5684.0, 5709.0, 5433.0, 5707.0, 5318.0, 5371.0, 5431.0, 5273.0, 5476.0, 5620.0, 5560.0, 5557.0, 5338.0, 5452.0, 5298.0, 5634.0, 5588.0, 5286.0, 5564.0, 5373.0, 5324.0, 5672.0, 5690.0, 5517.0, 5389.0, 5348.0, 5605.0, 5552.0, 5585.0, 5637.0, 5586.0, 5513.0, 5260.0, 5477.0, 5440.0, 5493.0, 5642.0, 5432.0, 5691.0, 5706.0, 5478.0, 5319.0, 5708.0, 5346.0, 5664.0, 5437.0, 5379.0, 5334.0, 5597.0, 5252.0, 5363.0, 5720.0, 5665.0, 5262.0, 5320.0, 5442.0, 5487.0, 5654.0, 5337.0, 5435.0, 5274.0, 5333.0, 5617.0, 5406.0, 5659.0, 5674.0, 5461.0, 5395.0, 5683.0, 5600.0, 5504.0, 5276.0, 5611.0, 5590.0, 5716.0, 5310.0, 5353.0, 5514.0, 5589.0, 5645.0, 5409.0, 5464.0, 5448.0, 5503.0, 5625.0, 5397.0, 5336.0, 5355.0, 5528.0, 5451.0, 5593.0, 5429.0, 5316.0, 5408.0, 5545.0, 5608.0, 5655.0, 5384.0 (number of hits: 3)
19	5580	9	1	333	1	5642.0, 5294.0, 5323.0, 5606.0, 5327.0, 5539.0, 5547.0, 5350.0, 5308.0, 5365.0, 5442.0, 5619.0, 5409.0, 5366.0, 5474.0, 5605.0, 5590.0, 5691.0, 5705.0, 5278.0, 5332.0, 5535.0, 5429.0, 5434.0, 5647.0, 5251.0, 5364.0, 5260.0, 5649.0, 5411.0, 5609.0, 5268.0, 5453.0, 5408.0, 5510.0, 5259.0, 5616.0, 5255.0, 5712.0, 5700.0, 5626.0, 5373.0, 5637.0, 5522.0, 5523.0, 5402.0, 5360.0, 5487.0, 5679.0, 5266.0, 5546.0, 5307.0, 5317.0, 5382.0, 5661.0, 5710.0, 5384.0, 5692.0, 5473.0, 5528.0, 5320.0, 5657.0, 5343.0, 5464.0, 5667.0, 5454.0, 5381.0, 5313.0, 5344.0, 5484.0, 5312.0, 5303.0, 5455.0, 5689.0, 5371.0, 5334.0, 5435.0, 5406.0, 5285.0, 5346.0, 5663.0, 5378.0, 5403.0, 5703.0, 5526.0, 5298.0, 5281.0, 5356.0, 5426.0, 5628.0, 5491.0, 5550.0, 5681.0, 5602.0, 5538.0, 5557.0, 5600.0, 5342.0, 5324.0, 5265.0 (number of hits: 8)
20	5580	9	1	333	1	5691.0, 5526.0, 5535.0, 5251.0, 5359.0, 5306.0, 5717.0, 5491.0, 5628.0, 5712.0,

						5309.0, 5532.0, 5597.0, 5492.0, 5614.0, 5454.0, 5605.0, 5417.0, 5330.0, 5328.0, 5710.0, 5688.0, 5675.0, 5478.0, 5721.0, 5323.0, 5413.0, 5350.0, 5260.0, 5466.0, 5300.0, 5653.0, 5349.0, 5369.0, 5543.0, 5693.0, 5443.0, 5595.0, 5578.0, 5548.0, 5407.0, 5590.0, 5270.0, 5340.0, 5394.0, 5365.0, 5612.0, 5493.0, 5683.0, 5441.0, 5261.0, 5377.0, 5264.0, 5674.0, 5385.0, 5431.0, 5699.0, 5703.0, 5378.0, 5368.0, 5342.0, 5477.0, 5310.0, 5530.0, 5457.0, 5315.0, 5500.0, 5425.0, 5335.0, 5447.0, 5265.0, 5587.0, 5700.0, 5397.0, 5606.0, 5656.0, 5258.0, 5553.0, 5589.0, 5634.0, 5408.0, 5669.0, 5462.0, 5576.0, 5488.0, 5353.0, 5364.0, 5292.0, 5507.0, 5285.0, 5416.0, 5299.0, 5546.0, 5694.0, 5684.0, 5676.0, 5618.0, 5269.0, 5567.0, 5356.0 (number of hits: 7)
21	5580	9	1	333	1	5298.0, 5379.0, 5605.0, 5593.0, 5405.0, 5408.0, 5487.0, 5423.0, 5360.0, 5262.0, 5498.0, 5324.0, 5441.0, 5280.0, 5663.0, 5571.0, 5674.0, 5721.0, 5369.0, 5417.0, 5465.0, 5561.0, 5284.0, 5318.0, 5308.0, 5637.0, 5648.0, 5416.0, 5669.0, 5714.0, 5496.0, 5611.0, 5442.0, 5690.0, 5374.0, 5719.0, 5522.0, 5678.0, 5473.0, 5521.0, 5662.0, 5482.0, 5638.0, 5380.0, 5567.0, 5462.0, 5518.0, 5635.0, 5367.0, 5457.0, 5641.0, 5337.0, 5540.0, 5560.0, 5524.0, 5483.0, 5464.0, 5541.0, 5645.0, 5599.0, 5533.0, 5393.0, 5666.0, 5718.0, 5309.0, 5448.0, 5313.0, 5332.0, 5296.0, 5683.0, 5282.0, 5614.0, 5252.0, 5411.0, 5394.0, 5451.0, 5640.0, 5475.0, 5670.0, 5439.0, 5263.0, 5555.0, 5276.0, 5539.0, 5346.0, 5710.0, 5622.0, 5549.0, 5502.0, 5444.0, 5486.0, 5717.0, 5603.0, 5267.0, 5515.0, 5269.0, 5319.0, 5431.0, 5470.0, 5455.0 (number of hits: 5)
22	5580	9	1	333	1	5385.0, 5603.0, 5634.0, 5630.0, 5262.0, 5434.0, 5484.0, 5631.0, 5433.0, 5301.0, 5442.0, 5428.0, 5595.0, 5406.0, 5361.0, 5307.0, 5491.0, 5441.0, 5252.0, 5651.0, 5480.0, 5382.0, 5281.0, 5723.0, 5639.0, 5410.0, 5259.0, 5285.0, 5548.0, 5556.0, 5376.0, 5610.0, 5617.0, 5302.0, 5298.0, 5474.0, 5501.0, 5336.0, 5435.0, 5524.0, 5596.0, 5677.0, 5276.0, 5619.0, 5663.0, 5532.0, 5503.0, 5294.0, 5446.0, 5422.0, 5317.0, 5561.0, 5611.0, 5332.0, 5334.0, 5324.0, 5571.0, 5408.0, 5388.0, 5312.0, 5461.0, 5659.0, 5394.0, 5654.0, 5375.0, 5514.0, 5471.0, 5280.0, 5574.0, 5467.0, 5316.0, 5629.0, 5371.0, 5427.0, 5363.0, 5450.0, 5688.0, 5482.0, 5351.0, 5447.0, 5287.0, 5533.0, 5257.0, 5266.0, 5687.0, 5303.0, 5638.0, 5666.0, 5377.0, 5381.0,

						5273.0, 5448.0, 5698.0, 5393.0, 5359.0, 5564.0, 5707.0, 5525.0, 5558.0, 5451.0 (number of hits: 9)
23	5580	9	1	333	1	5713.0, 5517.0, 5663.0, 5508.0, 5642.0, 5499.0, 5639.0, 5302.0, 5306.0, 5344.0, 5399.0, 5497.0, 5569.0, 5676.0, 5587.0, 5646.0, 5690.0, 5379.0, 5338.0, 5638.0, 5404.0, 5562.0, 5340.0, 5620.0, 5519.0, 5327.0, 5653.0, 5673.0, 5354.0, 5597.0, 5626.0, 5259.0, 5349.0, 5617.0, 5573.0, 5516.0, 5570.0, 5624.0, 5412.0, 5515.0, 5660.0, 5588.0, 5382.0, 5378.0, 5607.0, 5437.0, 5488.0, 5414.0, 5542.0, 5285.0, 5362.0, 5321.0, 5719.0, 5598.0, 5487.0, 5444.0, 5645.0, 5506.0, 5584.0, 5532.0, 5260.0, 5557.0, 5604.0, 5668.0, 5684.0, 5357.0, 5467.0, 5601.0, 5353.0, 5534.0, 5311.0, 5533.0, 5466.0, 5710.0, 5284.0, 5420.0, 5633.0, 5485.0, 5486.0, 5352.0, 5343.0, 5440.0, 5472.0, 5502.0, 5585.0, 5518.0, 5314.0, 5610.0, 5359.0, 5394.0, 5386.0, 5608.0, 5654.0, 5471.0, 5602.0, 5680.0, 5411.0, 5333.0, 5698.0, 5709.0 (number of hits: 5)
24	5580	9	1	333	1	5409.0, 5464.0, 5708.0, 5302.0, 5439.0, 5673.0, 5451.0, 5597.0, 5394.0, 5622.0, 5683.0, 5674.0, 5292.0, 5303.0, 5491.0, 5585.0, 5482.0, 5529.0, 5257.0, 5548.0, 5395.0, 5365.0, 5452.0, 5357.0, 5305.0, 5707.0, 5362.0, 5392.0, 5258.0, 5522.0, 5503.0, 5555.0, 5314.0, 5587.0, 5581.0, 5662.0, 5323.0, 5672.0, 5546.0, 5445.0, 5266.0, 5271.0, 5345.0, 5573.0, 5511.0, 5328.0, 5457.0, 5580.0, 5433.0, 5265.0, 5488.0, 5677.0, 5639.0, 5655.0, 5525.0, 5695.0, 5638.0, 5689.0, 5458.0, 5308.0, 5423.0, 5623.0, 5253.0, 5356.0, 5383.0, 5476.0, 5711.0, 5524.0, 5481.0, 5254.0, 5579.0, 5650.0, 5426.0, 5437.0, 5722.0, 5279.0, 5521.0, 5523.0, 5552.0, 5619.0, 5370.0, 5344.0, 5429.0, 5264.0, 5450.0, 5634.0, 5651.0, 5311.0, 5322.0, 5484.0, 5376.0, 5389.0, 5333.0, 5281.0, 5583.0, 5261.0, 5532.0, 5723.0, 5453.0, 5477.0 (number of hits: 7)
25	5580	9	1	333	1	5486.0, 5503.0, 5536.0, 5396.0, 5625.0, 5658.0, 5342.0, 5568.0, 5391.0, 5605.0, 5349.0, 5589.0, 5468.0, 5425.0, 5314.0, 5671.0, 5565.0, 5272.0, 5259.0, 5324.0, 5524.0, 5686.0, 5509.0, 5268.0, 5490.0, 5649.0, 5370.0, 5695.0, 5492.0, 5609.0, 5496.0, 5275.0, 5510.0, 5584.0, 5403.0, 5542.0, 5426.0, 5340.0, 5697.0, 5483.0, 5611.0, 5684.0, 5407.0, 5543.0, 5594.0, 5306.0, 5462.0, 5454.0, 5281.0, 5361.0, 5251.0, 5294.0, 5262.0, 5331.0, 5458.0, 5712.0, 5721.0, 5680.0, 5717.0, 5256.0, 5591.0, 5289.0, 5693.0, 5255.0, 5624.0,

						5270.0, 5445.0, 5664.0, 5451.0, 5478.0, 5582.0, 5550.0, 5274.0, 5399.0, 5652.0, 5416.0, 5673.0, 5305.0, 5577.0, 5326.0, 5447.0, 5325.0, 5679.0, 5292.0, 5630.0, 5618.0, 5645.0, 5650.0, 5408.0, 5329.0, 5626.0, 5552.0, 5692.0, 5513.0, 5301.0, 5258.0, 5571.0, 5541.0, 5527.0, 5606.0 (number of hits: 7)
26	5580	9	1	333	1	5604.0, 5502.0, 5367.0, 5414.0, 5433.0, 5504.0, 5596.0, 5458.0, 5442.0, 5350.0, 5336.0, 5713.0, 5286.0, 5595.0, 5702.0, 5489.0, 5328.0, 5343.0, 5527.0, 5562.0, 5631.0, 5722.0, 5584.0, 5718.0, 5334.0, 5365.0, 5587.0, 5508.0, 5515.0, 5335.0, 5621.0, 5323.0, 5586.0, 5613.0, 5366.0, 5535.0, 5411.0, 5537.0, 5541.0, 5318.0, 5707.0, 5444.0, 5373.0, 5709.0, 5252.0, 5695.0, 5625.0, 5464.0, 5649.0, 5556.0, 5436.0, 5450.0, 5265.0, 5710.0, 5410.0, 5589.0, 5524.0, 5495.0, 5406.0, 5573.0, 5530.0, 5673.0, 5690.0, 5496.0, 5352.0, 5668.0, 5561.0, 5485.0, 5279.0, 5617.0, 5547.0, 5395.0, 5497.0, 5310.0, 5717.0, 5273.0, 5417.0, 5671.0, 5610.0, 5720.0, 5666.0, 5402.0, 5531.0, 5308.0, 5591.0, 5632.0, 5674.0, 5526.0, 5254.0, 5361.0, 5510.0, 5575.0, 5554.0, 5270.0, 5665.0, 5469.0, 5577.0, 5637.0, 5283.0, 5456.0 (number of hits: 3)
27	5580	9	1	333	1	5414.0, 5598.0, 5453.0, 5446.0, 5428.0, 5660.0, 5604.0, 5683.0, 5696.0, 5558.0, 5527.0, 5471.0, 5368.0, 5370.0, 5480.0, 5534.0, 5644.0, 5661.0, 5457.0, 5469.0, 5540.0, 5514.0, 5259.0, 5488.0, 5586.0, 5606.0, 5451.0, 5315.0, 5568.0, 5448.0, 5418.0, 5653.0, 5465.0, 5547.0, 5590.0, 5498.0, 5369.0, 5506.0, 5413.0, 5357.0, 5297.0, 5678.0, 5489.0, 5386.0, 5310.0, 5698.0, 5492.0, 5295.0, 5412.0, 5624.0, 5532.0, 5642.0, 5306.0, 5399.0, 5378.0, 5671.0, 5670.0, 5406.0, 5292.0, 5264.0, 5669.0, 5274.0, 5350.0, 5712.0, 5610.0, 5282.0, 5495.0, 5400.0, 5524.0, 5654.0, 5605.0, 5363.0, 5536.0, 5344.0, 5293.0, 5640.0, 5619.0, 5635.0, 5508.0, 5722.0, 5530.0, 5655.0, 5595.0, 5580.0, 5499.0, 5356.0, 5579.0, 5398.0, 5578.0, 5374.0, 5634.0, 5572.0, 5691.0, 5607.0, 5417.0, 5711.0, 5464.0, 5496.0, 5461.0, 5656.0 (number of hits: 6)
28	5580	9	1	333	1	5723.0, 5505.0, 5379.0, 5657.0, 5450.0, 5388.0, 5407.0, 5355.0, 5497.0, 5570.0, 5680.0, 5649.0, 5383.0, 5514.0, 5268.0, 5403.0, 5609.0, 5483.0, 5489.0, 5663.0, 5332.0, 5359.0, 5554.0, 5518.0, 5548.0, 5326.0, 5413.0, 5707.0, 5283.0, 5529.0, 5305.0, 5466.0, 5702.0, 5599.0, 5419.0, 5688.0, 5460.0, 5286.0, 5633.0, 5598.0,

						5306.0, 5695.0, 5253.0, 5312.0, 5712.0, 5446.0, 5692.0, 5421.0, 5440.0, 5327.0, 5382.0, 5274.0, 5477.0, 5513.0, 5693.0, 5300.0, 5486.0, 5453.0, 5259.0, 5363.0, 5655.0, 5682.0, 5353.0, 5370.0, 5374.0, 5715.0, 5361.0, 5284.0, 5515.0, 5526.0, 5255.0, 5608.0, 5291.0, 5366.0, 5396.0, 5456.0, 5360.0, 5568.0, 5696.0, 5441.0, 5250.0, 5628.0, 5430.0, 5597.0, 5698.0, 5722.0, 5699.0, 5412.0, 5558.0, 5476.0, 5625.0, 5309.0, 5385.0, 5444.0, 5623.0, 5417.0, 5643.0, 5380.0, 5499.0, 5651.0 (number of hits: 7)
29	5580	9	1	333	1	5663.0, 5412.0, 5641.0, 5435.0, 5692.0, 5657.0, 5378.0, 5279.0, 5705.0, 5540.0, 5539.0, 5609.0, 5400.0, 5409.0, 5432.0, 5575.0, 5503.0, 5322.0, 5275.0, 5350.0, 5722.0, 5714.0, 5704.0, 5363.0, 5629.0, 5631.0, 5716.0, 5601.0, 5698.0, 5560.0, 5693.0, 5487.0, 5493.0, 5525.0, 5311.0, 5501.0, 5529.0, 5513.0, 5607.0, 5702.0, 5574.0, 5535.0, 5618.0, 5486.0, 5269.0, 5331.0, 5600.0, 5302.0, 5433.0, 5646.0, 5667.0, 5697.0, 5582.0, 5583.0, 5345.0, 5484.0, 5482.0, 5261.0, 5505.0, 5562.0, 5252.0, 5481.0, 5468.0, 5459.0, 5666.0, 5406.0, 5416.0, 5593.0, 5656.0, 5684.0, 5461.0, 5537.0, 5494.0, 5253.0, 5420.0, 5333.0, 5335.0, 5546.0, 5634.0, 5263.0, 5713.0, 5599.0, 5622.0, 5437.0, 5499.0, 5440.0, 5591.0, 5548.0, 5498.0, 5404.0, 5324.0, 5405.0, 5502.0, 5309.0, 5476.0, 5375.0, 5706.0, 5649.0, 5520.0, 5457.0 (number of hits: 3)
30	5580	9	1	333	1	5383.0, 5653.0, 5599.0, 5315.0, 5332.0, 5428.0, 5259.0, 5556.0, 5645.0, 5511.0, 5287.0, 5435.0, 5342.0, 5601.0, 5482.0, 5621.0, 5656.0, 5521.0, 5539.0, 5437.0, 5709.0, 5432.0, 5379.0, 5530.0, 5606.0, 5576.0, 5473.0, 5285.0, 5404.0, 5321.0, 5627.0, 5262.0, 5256.0, 5446.0, 5375.0, 5670.0, 5258.0, 5491.0, 5591.0, 5312.0, 5306.0, 5682.0, 5555.0, 5268.0, 5632.0, 5638.0, 5443.0, 5550.0, 5461.0, 5292.0, 5269.0, 5465.0, 5683.0, 5588.0, 5531.0, 5547.0, 5331.0, 5345.0, 5374.0, 5633.0, 5717.0, 5516.0, 5498.0, 5335.0, 5649.0, 5708.0, 5561.0, 5580.0, 5393.0, 5695.0, 5317.0, 5563.0, 5295.0, 5398.0, 5712.0, 5543.0, 5589.0, 5409.0, 5430.0, 5326.0, 5386.0, 5388.0, 5314.0, 5689.0, 5369.0, 5372.0, 5495.0, 5574.0, 5469.0, 5625.0, 5536.0, 5390.0, 5584.0, 5396.0, 5478.0, 5603.0, 5497.0, 5319.0, 5583.0, 5308.0 (number of hits: 8)

40MHz

5270 MHz

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

Please refer to the following statistical tables:

5270MHz
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	28	1	194	1
2	5270	29	4.4	214	0
3	5270	28	4.4	223	1
4	5270	24	2.9	183	1
5	5270	28	4.3	174	1
6	5270	26	4.9	230	1
7	5270	26	1.3	155	1
8	5270	27	4	219	1
9	5270	28	1.2	171	1
10	5270	26	4.1	191	1
11	5270	25	4.1	184	1
12	5270	23	5	220	1
13	5270	26	3.1	217	1
14	5270	28	1.5	207	1
15	5270	25	1.7	174	1
16	5270	24	2.3	196	1
17	5270	24	1.4	152	1
18	5270	29	1.8	183	1
19	5270	27	1.3	195	1
20	5270	25	2.1	179	0
21	5270	27	3.8	175	1
22	5270	25	2.5	168	0
23	5270	24	4.1	186	1
24	5270	24	2.6	159	1
25	5270	28	2.9	228	1
26	5270	23	1.7	211	1
27	5270	23	4.8	230	1
28	5270	23	1.9	197	0
29	5270	24	3.3	167	1
30	5270	26	5	159	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	5270	18	7	400	1
2	5270	18	7.5	356	1
3	5270	16	6.2	476	1
4	5270	17	7.4	297	1
5	5270	17	8	361	1
6	5270	18	6.5	323	1
7	5270	16	6.2	493	1
8	5270	16	6	474	1
9	5270	16	6.3	402	1
10	5270	17	9.9	368	1
11	5270	16	8.5	381	0
12	5270	17	8	391	1
13	5270	16	7.2	463	1
14	5270	16	7.2	278	1
15	5270	18	8.5	341	1
16	5270	17	9.2	499	1
17	5270	18	9.5	238	0
18	5270	18	8.6	425	1
19	5270	17	8.3	402	1
20	5270	17	7	215	1
21	5270	18	7.4	287	1
22	5270	16	6.3	207	1
23	5270	17	7.8	280	1
24	5270	18	9.3	302	1
25	5270	16	6.7	222	1
26	5270	17	6.8	341	1
27	5270	18	7.3	308	1
28	5270	17	6.7	482	1
29	5270	18	8.9	464	1
30	5270	16	8.1	393	1
Detection Percentage: 93.3 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5270	12	14.6	443	1
2	5270	15	19.6	322	1
3	5270	15	17.4	248	1
4	5270	15	15.2	275	1
5	5270	12	12.9	382	1
6	5270	15	11	284	1
7	5270	14	16.9	240	1
8	5270	14	14.4	484	1
9	5270	16	14.8	365	0
10	5270	12	13.1	268	1
11	5270	13	11.1	386	1
12	5270	14	15.6	265	1
13	5270	13	13.5	244	1
14	5270	12	13.4	374	1
15	5270	12	14.3	460	1
16	5270	14	13	310	1
17	5270	13	11.8	392	1
18	5270	12	19	334	1
19	5270	13	13.4	469	1
20	5270	14	15.6	274	0
21	5270	14	17.8	359	1
22	5270	15	16.4	500	1
23	5270	15	14.9	458	1
24	5270	12	14	216	1
25	5270	13	11.1	365	1
26	5270	12	11.5	426	1
27	5270	14	18.2	222	1
28	5270	13	11.4	474	1
29	5270	13	16.9	332	1
30	5270	16	11.2	329	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	16	82.3	1173		0.388584	1
1	3	16	51.4	1713	1717	1.353827	
2	1	15	89.9			1.922945	
3	3	18	97	1986	1155	2.715873	
4	3	15	75.7	1326	1090	3.734315	
5	3	10	93.1	1179	1314	4.424173	
6	1	8	94.4			5.193084	
7	2	6	72.3	1177		5.842267	
8	3	20	90.7	1988	1115	6.216825	
9	3	18	57.9	1897	1558	7.375975	
10	1	11	68.1			7.582839	
11	2	11	79.4	1780		8.34397	
12	1	6	80.8			9.550003	
13	3	6	88.9	1942	1042	10.03115	
14	2	17	90.2	1232		11.18542	
15	2	16	86.7	1372		11.74594	

Bin5 Statistics 2

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	10	81.5			0.163124	
1	2	14	55.1	1028		1.085614	
2	3	19	60.6	1261	1202	1.622476	
3	1	12	52.3			1.873814	
4	2	10	66.8	1212		2.606056	
5	2	15	98.6	1244		3.401706	
6	3	10	72.3	1185	1693	4.079389	
7	1	5	73.4			4.29078	
8	1	6	68.3			4.818243	
9	3	14	62.8	1747	1911	5.592767	1
10	2	9	64.9	1700		6.594625	
11	2	6	99.9	1270		7.113481	
12	1	18	55.3			7.550677	
13	2	19	51.3	1546		8.372794	
14	2	8	71.5	1710		8.405562	
15	2	10	69.4	1830		9.478655	
16	3	9	60.4	1175	1631	10.09799	
17	1	7	96.4			10.38821	
18	2	9	81.7	1518		11.08035	
19	2	9	90.9	1170		11.48312	

Bin5 Statistics 3

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	8	97.3			0.666981	
1	2	13	74.5	1474		2.529577	
2	2	6	64.9	1185		3.803978	
3	2	18	67.6	1999		5.968722	
4	1	16	51.5			6.281291	1
5	2	10	83.3	1744		8.474844	
6	3	6	86	1731	1928	9.325953	
7	2	15	94.9	1296		10.66539	

Bin5 Statistics 4

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	11	54.9	1608	1934	0.289074	
1	2	10	91.3	1350		1.367568	
2	2	6	72.5	1717		1.813892	
3	2	11	60.3	1599		2.91594	
4	2	6	68.9	1066		3.844342	
5	2	14	75.3	1202		4.142631	
6	2	12	82.7	1271		5.165882	
7	2	12	74.6	1859		6.256312	1
8	2	17	70.2	1199		6.568207	
9	1	16	74.6			7.76789	
10	2	9	60.9	1506		8.38474	
11	3	16	89.4	1962	1982	8.838263	
12	2	17	83.1	1082		9.98296	
13	2	15	95.3	1074		10.97258	
14	3	9	98.4	1041	1952	11.6882	

Bin5 Statistics 5

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	12	84.6	1608	1515	0.185581	
1	1	14	87.1			0.852982	
2	3	6	75.4	1332	1753	1.389932	
3	2	18	63.9	1748		2.320792	
4	2	15	98.6	1449		2.990088	
5	2	18	85.4	1382		3.774127	
6	1	13	50.3			4.226128	
7	3	19	63.4	1125	1176	5.113582	
8	2	16	58.1	1336		5.645227	
9	2	12	71.9	1861		6.468302	1
10	2	10	92.7	1942		7.049405	
11	1	14	82.8			7.644269	
12	2	15	78.6	1657		8.356936	
13	2	9	60.6	1812		8.797725	
14	3	11	59.1	1122	1485	9.418107	
15	1	8	82.5			10.55724	
16	1	15	92.7			11.28819	
17	1	6	63.9			11.86806	

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	6	60.9	1864		0.930623	1
1	2	12	97.2	1936		1.25832	
2	1	17	93			2.770993	
3	2	10	51.1	1397		3.792003	
4	1	17	80.8			4.820399	
5	1	14	83			5.011082	
6	2	10	54.3	1250		6.211061	
7	3	11	70.2	1429	1877	7.632486	
8	3	11	74.2	1505	1663	8.071427	
9	2	8	52.7	1391		9.217094	
10	2	11	75.4	1823		10.34123	
11	2	13	80	1104		11.13585	

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	83.8	1678		0.804755	1
1	3	11	74.1	1297	1146	1.478683	
2	1	8	72.8			2.010749	
3	2	9	71.1	1943		3.983284	
4	2	6	84.8	1262		4.818195	
5	1	17	61.5			5.945939	
6	1	13	67.3			6.100292	
7	2	17	87.5	1491		7.846264	
8	2	11	56.1	1033		8.845798	
9	2	8	85.8	1490		9.515381	
10	1	8	84.5			10.61578	
11	2	19	83.3	1555		11.69299	

Bin5 Statistics 8

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	6	60.7	1577		0.143922	
1	1	14	69.4			1.199012	
2	2	18	65.7	1370		2.226643	
3	1	12	90.1			2.503775	
4	1	9	82.8			3.638408	
5	1	12	79.3			3.958448	
6	2	6	89.8	1990		4.556558	
7	2	19	94.2	1039		5.513981	
8	3	9	81.1	1966	1014	6.1292	1
9	2	8	82.6	1348		7.067412	
10	3	8	65	1164	1348	7.533773	
11	2	7	91.9	1196		8.603625	
12	3	7	59.2	1686	1134	9.326647	
13	2	8	63.1	1883		10.22547	
14	3	17	62	1729	1661	11.13052	
15	1	5	84.1			11.60135	

Bin5 Statistics 9

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	9	97			0.326793	
1	2	16	59.3	1594		0.894813	
2	1	15	52.4			1.792617	
3	3	7	59.8	1438	1917	2.535659	
4	2	9	51.5	1040		3.60521	
5	2	18	59.8	1255		4.212307	
6	2	6	92.4	1069		5.008423	
7	1	5	98			6.114822	1
8	1	12	58.1			6.837473	
9	1	18	75.3			7.227671	
10	2	6	80.1	1146		8.682905	
11	3	11	98.1	1664	1502	9.456662	
12	1	15	93.3			9.78455	
13	2	11	59.6	1447		10.42846	
14	1	11	90.7			11.82327	

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	8	71.4	1311		0.148262	
1	2	19	68.4	1770		1.622597	
2	2	12	63.7	1947		1.731983	
3	2	8	50.1	1883		3.066063	
4	2	11	94.2	1118		3.590101	
5	2	8	97.2	1709		4.867398	
6	2	11	91.1	1637		5.166368	
7	2	12	56	1048		6.326952	1
8	2	12	82.6	1317		6.981418	
9	2	15	93	1984		7.798962	
10	2	15	86.2	1130		8.625498	
11	2	20	83	1111		9.947929	
12	3	12	85.4	1666	1662	10.80534	
13	1	18	52.7			11.36747	

Bin5 Statistics 11

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	17	96.4	1159		0.207721	
1	3	10	68.9	1205	1241	1.275556	
2	1	15	52.5			2.053965	
3	3	16	51.8	1186	1702	2.761142	
4	2	20	84.8	1957		3.601977	
5	1	13	95.2			4.312451	
6	2	8	63.4	1550		5.258187	
7	3	15	93	1423	1208	5.952869	1
8	2	13	67	1118		6.81058	
9	2	17	82.4	1715		7.927161	
10	1	13	64.3			8.265198	
11	2	8	92.3	1545		9.060501	
12	2	11	91.4	1584		10.22138	
13	2	14	77.2	1329		10.48948	
14	1	8	53.3			11.41599	

Bin5 Statistics 12

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	15	58	1988	1013	0.360079	
1	2	12	72.5	1215		1.313827	
2	2	16	87	1240		1.468151	
3	2	7	71.3	1301		2.558624	
4	2	18	59.2	1400		2.909759	
5	2	13	73.8	1505		3.594939	
6	1	15	80.4			4.339088	
7	2	11	87.1	1233		5.115491	
8	2	18	90.8	1141		5.349811	1
9	3	6	91	1192	1810	6.452122	
10	1	20	82.4			7.02762	
11	2	15	77	1381		7.661815	
12	2	20	89.6	1855		8.244514	
13	1	9	78.8			9.013141	
14	2	11	88	1766		9.888694	
15	2	13	92.5	1366		10.43409	
16	2	8	78.7	1875		11.17282	
17	3	15	69.9	1228	1673	11.58089	

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	6	69.2			0.188749	
1	2	14	68.3	1889		0.77338	
2	2	17	58.6	1589		1.969828	
3	3	6	98.7	1769	1874	2.459112	
4	1	17	65.2			3.746137	
5	2	19	96.6	1402		3.91212	
6	2	17	73.7	1396		4.551051	
7	2	11	91.1	1050		5.422952	1
8	2	11	84.6	1773		6.731487	
9	2	18	99.4	1917		7.221613	
10	2	20	61	1228		8.125117	
11	1	11	75			8.574468	
12	3	10	93.3	1239	1125	9.398495	
13	2	9	56.3	1643		9.923712	
14	3	8	84.3	1675	1981	10.99423	
15	2	17	99.7	1366		11.80272	

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	65.1	1237		1.290733	
1	3	8	89.2	1684	1182	1.786061	
2	2	16	61.4	1080		3.879742	
3	2	17	67.6	1624		5.003802	
4	1	15	50.4			5.681922	1
5	1	16	62.9			7.457159	
6	2	11	58.2	1459		8.849918	
7	2	11	68	1580		9.398355	
8	1	17	94.4			11.34747	

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	9	77.7	1684	1050	0.518342	
1	2	13	50.7	1368		1.150392	
2	1	16	99			1.919029	
3	1	11	100			2.619351	
4	2	15	80.1	1905		3.198737	
5	2	6	53	1612		4.177401	
6	1	18	56.3			4.896764	
7	1	17	61.9			5.553911	
8	1	8	74.3			6.737001	1
9	2	15	85.1	1420		6.895499	
10	2	12	70.6	1379		7.908638	
11	3	16	87.3	1502	1004	8.718102	
12	2	9	85.3	1456		9.125854	
13	3	15	75.9	1653	1926	10.30639	
14	2	14	69.9	1220		10.53226	
15	2	15	95.1	1410		11.56583	

Bin5 Statistics 16

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	15	75.7	1203		1.105541	1
1	2	7	87.1	1780		1.619959	
2	2	17	63	1777		2.458987	
3	3	18	54	1387	1267	3.621894	
4	2	17	97.9	1157		5.295272	
5	1	8	50.8			7.087226	
6	2	6	56.5	1837		8.098215	
7	2	8	92.4	1909		8.865152	
8	2	12	87.8	1113		9.813833	
9	2	20	67.5	1383		11.0725	

Bin5 Statistics 17

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	6	98.8	1940		0.425195	1
1	3	18	60.4	1055	1702	1.332506	
2	1	19	50.7			2.19736	
3	1	11	86.5			2.546906	
4	1	16	69.4			3.445006	
5	3	13	98.1	1173	1694	4.707287	
6	3	5	93.7	1108	1872	5.121801	
7	2	13	55.5	1881		6.108753	
8	3	17	89.2	1426	1167	6.653156	
9	2	16	69.9	1901		7.782388	
10	2	14	61.2	1133		8.082282	
11	3	12	83.4	1772	1174	8.936165	
12	3	9	98.2	1190	1528	9.667696	
13	2	19	87.7	1239		11.03399	
14	3	19	54.6	1419	1088	11.69435	
15	1	13	58.8			9.903557	
16	1	8	94			10.63727	
17	3	14	75.4	1336	1592	11.13279	
18	1	12	61.5			11.42694	

Bin5 Statistics 18

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	10	85.8	1363		0.014039	
1	2	9	71.3	1363		1.036326	
2	1	13	80.4			1.693532	
3	2	20	52.5	1582		2.83483	
4	2	17	73.1	1392		3.74385	
5	2	12	75.6	1943		4.761982	
6	1	7	83.4			4.958072	
7	2	19	80.3	1160		5.773745	1
8	2	16	56.9	1219		6.716462	
9	1	20	50.8			7.688466	
10	2	11	59	1056		8.05853	
11	2	18	96.9	1870		8.959928	
12	3	7	94.1	1365	1757	10.115034	
13	1	17	71.9			11.014684	
14	2	7	88.7	1831		11.307354	

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	13	67	1771	1814	1.0659	
1	3	11	76.7	1716	1087	2.246184	
2	2	14	99.7	1298		3.744655	
3	2	12	83.8	1115		5.813147	1
4	3	6	51.2	1099	1193	7.0956	
5	2	12	51.9	1839		7.813366	
6	2	6	80.2	1813		9.546198	
7	3	13	55	1326	1987	10.834409	

Bin5 Statistics 20

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	17	60.3	1669	1508	0.521252	
1	1	16	68.9			0.7557	
2	2	9	82.1	1413		1.745716	
3	2	14	79.4	1682		2.5099	
4	2	12	77.6	1245		3.001368	
5	2	7	69.2	1579		3.929122	
6	1	12	51.7			4.645502	
7	2	15	60.2	1825		5.123134	
8	1	16	55.5			5.75233	1
9	2	11	62.2	1196		6.559112	
10	2	16	76.5	1158		7.568812	
11	2	11	79.8	1538		7.912247	
12	2	20	73.1	1699		9.00777	
13	2	18	90.6	1968		9.831017	
14	2	13	89.9	1778		10.538972	
15	2	13	69.9	1462		10.849365	
16	2	20	54.1	1614		11.405605	

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	74.4	1313		0.233487	
1	2	8	54.1	1238		1.385108	
2	2	13	69.7	1698		2.234462	
3	1	15	57.6			3.747656	
4	2	6	77.7	1958		4.312418	
5	1	15	86.3			5.977262	
6	2	18	60.8	1605		6.143138	1
7	2	15	55.1	1992		7.483627	
8	3	19	68.4	1724	1355	8.938207	
9	1	15	96.6			9.205651	
10	3	8	96.1	1446	1637	10.00186	
11	3	13	59.8	1549	1450	11.39849	

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	11	85.5			0.130733	
1	2	15	70.5	1309		1.119041	
2	2	12	85.4	1853		1.729042	
3	1	14	53.1			3.057068	
4	3	7	77.9	1073	1229	3.510719	
5	1	6	63.2			4.323766	
6	1	18	76.9			5.258291	
7	3	10	91.4	1743	1932	6.516259	1
8	2	19	66.1	1130		7.571321	
9	3	15	87.2	1932	1111	7.892773	
10	2	16	72.1	1722		8.625199	
11	3	15	68	1815	1039	9.54458	
12	2	14	98.8	1735		10.723903	
13	1	16	97			11.383986	

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	11	74.6	1077	1410	0.834319	
1	1	8	72.4			1.053927	
2	2	12	60.9	1302		2.61604	
3	3	19	95.4	1457	1265	2.887993	
4	2	15	70.2	1312		4.607724	
5	2	16	58.5	1272		5.152907	
6	1	19	80.8			6.126284	1
7	1	15	83.2			7.354946	
8	1	13	63.2			7.972235	
9	2	13	65.8	1260		8.764537	
10	2	13	95.2	1980		9.650495	
11	2	12	91.7	1503		10.649533	
12	2	12	91.8	1164		11.31228	

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	86.1			0.505295	
1	2	14	70.4	1722		1.499557	
2	2	7	63	1837		1.917068	
3	1	6	50.4			2.40535	
4	1	17	89.1			3.501594	
5	2	14	69.6	1049		4.519548	
6	1	12	73.3			4.815312	
7	3	11	89	1810	1044	5.79844	1
8	2	14	62.2	1515		7.124452	
9	3	18	90.9	1811	1370	7.267928	
10	2	19	77.5	1882		8.189004	
11	1	15	70.5			8.903192	
12	3	18	74.9	1115	1196	9.930149	
13	2	13	66.7	1989		10.591637	
14	1	11	93.4			11.487826	

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	7	74.3	1051	1164	0.505189	
1	3	6	58.6	1861	1439	2.344732	
2	3	11	59.4	1706	1181	3.954491	
3	3	13	80.8	1992	1883	5.1033	
4	1	6	51			6.458687	1
5	2	18	50.3	1883		7.351829	
6	2	17	57.9	1884		8.016795	
7	3	12	78.3	1460	1053	10.169237	
8	2	18	57.8	1772		11.49647	

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	15	92.9	1697	1800	1.088992	1
1	2	14	61.7	1554		2.059285	
2	2	8	60.3	1251		3.319044	
3	3	15	51.9	1275	1142	4.405235	
4	3	11	61.2	1550	1250	5.920392	
5	2	10	94.6	1475		7.291178	
6	2	13	71.6	1274		9.039847	
7	2	14	61.4	1589		10.355737	
8	3	9	95.4	1700	1845	10.89227	

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	7	88.3			0.91651	1
1	1	19	94.9			1.428153	
2	2	9	56.1	1810		2.114314	
3	2	13	85.2	1319		3.869577	
4	2	16	70.9	1589		4.051898	
5	2	17	75.3	1778		5.066798	
6	3	15	98.8	1784	1355	6.216992	
7	2	14	92.3	1037		7.165394	
8	1	6	87.7			8.48925	
9	1	19	98.7			9.900696	
10	1	14	56.2			10.302542	
11	2	6	85.9	1035		11.101891	

Bin5 Statistics 28

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	14	91.6	1417		0.916101	1
1	1	8	72.4			2.105693	
2	3	18	99.5	1026	1941	2.643978	
3	2	7	77.8	1914		4.202432	
4	1	11	56.4			5.87055	
5	1	17	67.5			6.919843	
6	2	15	58.3	1013		7.999057	
7	3	11	89.8	1221	1841	8.911617	
8	2	16	71.5	1239		10.198998	
9	2	8	59.2	1089		11.39631	

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	10	73.4	1194		0.439161	1
1	3	17	76.4	1410	1086	1.83103	
2	2	12	59.2	1753		2.394665	
3	1	12	59.7			3.395824	
4	2	10	50.2	1497		4.269332	
5	1	19	88.8			5.006618	
6	2	16	90	1675		6.330659	
7	2	18	84.7	1126		7.073779	
8	1	11	79.3			8.054287	
9	3	20	95.4	1178	1449	8.847576	
10	2	20	72.5	1804		9.980051	
11	3	11	89.9	1460	1506	10.1914	
12	3	12	58.5	1326	1709	11.217002	

Bin5 Statistics 30

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	17	71.8	1884	1208	0.567214	1
1	2	6	63.3	1408		0.9711	
2	2	15	68.2	1148		2.214271	
3	1	11	69.7			3.027461	
4	2	8	65.3	1683		4.205462	
5	3	12	56	1005	1205	4.424691	
6	2	8	53.1	1547		5.977718	
7	2	13	80.3	1891		6.100298	
8	1	19	71.7			7.157937	
9	3	9	70.5	1022	1509	8.443678	
10	1	16	81.4			8.747123	
11	3	6	94	1761	1678	9.802331	
12	1	11	72.4			11.09347	
13	3	6	60.3	1133	1286	11.922531	

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	5542.0, 5301.0, 5625.0, 5424.0, 5671.0, 5399.0, 5470.0, 5636.0, 5455.0, 5523.0, 5588.0, 5321.0, 5506.0, 5655.0, 5556.0, 5537.0, 5257.0, 5334.0, 5365.0, 5618.0, 5683.0, 5562.0, 5490.0, 5679.0, 5538.0, 5263.0, 5458.0, 5694.0, 5268.0, 5488.0, 5693.0, 5616.0, 5700.0, 5337.0, 5279.0, 5615.0, 5473.0, 5384.0, 5326.0, 5445.0, 5665.0, 5649.0, 5434.0, 5463.0, 5611.0, 5372.0, 5688.0, 5320.0, 5375.0, 5297.0, 5723.0, 5574.0, 5699.0, 5287.0, 5402.0, 5668.0, 5466.0, 5264.0, 5698.0, 5587.0, 5676.0, 5295.0, 5568.0, 5293.0, 5631.0, 5529.0, 5652.0, 5314.0, 5709.0, 5281.0, 5645.0, 5419.0, 5674.0, 5704.0, 5610.0, 5286.0, 5531.0, 5505.0, 5558.0, 5426.0, 5545.0, 5601.0, 5549.0, 5681.0, 5657.0, 5423.0, 5341.0, 5520.0, 5431.0, 5651.0, 5528.0, 5608.0, 5604.0, 5443.0, 5472.0, 5535.0, 5298.0, 5480.0, 5637.0, 5530.0 (number of hits: 8)
2	5270	9	1	333	1	5334.0, 5403.0, 5357.0, 5592.0, 5675.0, 5355.0, 5604.0, 5708.0, 5473.0, 5662.0, 5382.0, 5607.0, 5260.0, 5452.0, 5252.0, 5601.0, 5390.0, 5301.0, 5289.0, 5630.0, 5510.0, 5660.0, 5589.0, 5684.0, 5339.0, 5369.0, 5703.0, 5619.0, 5451.0, 5347.0, 5547.0, 5519.0, 5593.0, 5599.0, 5253.0, 5280.0, 5401.0, 5722.0, 5459.0, 5271.0, 5327.0, 5374.0, 5720.0, 5485.0, 5325.0, 5546.0, 5719.0, 5605.0, 5268.0, 5269.0, 5331.0, 5612.0, 5367.0, 5677.0, 5497.0, 5329.0, 5537.0, 5530.0, 5324.0, 5442.0, 5372.0, 5506.0, 5354.0, 5446.0, 5640.0, 5598.0, 5517.0, 5417.0, 5571.0, 5282.0, 5463.0, 5250.0, 5687.0, 5317.0, 5491.0, 5528.0, 5394.0, 5433.0, 5671.0, 5560.0, 5716.0, 5342.0, 5608.0, 5388.0, 5297.0, 5713.0, 5462.0, 5378.0, 5609.0, 5532.0, 5556.0, 5455.0, 5251.0, 5364.0, 5436.0, 5661.0, 5533.0, 5274.0, 5536.0, 5672.0 (number of hits: 3)
3	5270	9	1	333	1	5383.0, 5614.0, 5613.0, 5547.0, 5303.0, 5286.0, 5314.0, 5483.0, 5496.0, 5578.0, 5275.0, 5517.0, 5709.0, 5603.0, 5312.0, 5719.0, 5545.0, 5256.0, 5444.0, 5290.0, 5369.0, 5694.0, 5635.0, 5407.0, 5683.0, 5288.0, 5316.0, 5537.0, 5413.0, 5251.0, 5705.0, 5381.0, 5293.0, 5395.0, 5311.0,

						5571.0, 5583.0, 5499.0, 5488.0, 5296.0, 5561.0, 5661.0, 5324.0, 5414.0, 5329.0, 5382.0, 5378.0, 5440.0, 5250.0, 5688.0, 5277.0, 5679.0, 5634.0, 5701.0, 5498.0, 5351.0, 5622.0, 5432.0, 5267.0, 5355.0, 5443.0, 5560.0, 5364.0, 5379.0, 5569.0, 5307.0, 5526.0, 5682.0, 5372.0, 5448.0, 5527.0, 5468.0, 5464.0, 5507.0, 5722.0, 5298.0, 5380.0, 5713.0, 5453.0, 5472.0, 5482.0, 5463.0, 5281.0, 5284.0, 5446.0, 5712.0, 5445.0, 5254.0, 5539.0, 5365.0, 5512.0, 5399.0, 5360.0, 5415.0, 5695.0, 5647.0, 5723.0, 5315.0, 5540.0, 5371.0 (number of hits: 11)
4	5270	9	1	333	1	5407.0, 5423.0, 5688.0, 5431.0, 5603.0, 5709.0, 5528.0, 5568.0, 5263.0, 5694.0, 5514.0, 5450.0, 5484.0, 5336.0, 5353.0, 5422.0, 5386.0, 5610.0, 5330.0, 5585.0, 5643.0, 5454.0, 5678.0, 5410.0, 5552.0, 5465.0, 5385.0, 5705.0, 5456.0, 5655.0, 5394.0, 5254.0, 5637.0, 5497.0, 5519.0, 5324.0, 5692.0, 5683.0, 5409.0, 5438.0, 5363.0, 5397.0, 5609.0, 5464.0, 5475.0, 5391.0, 5500.0, 5309.0, 5444.0, 5687.0, 5286.0, 5293.0, 5553.0, 5360.0, 5684.0, 5305.0, 5633.0, 5597.0, 5594.0, 5480.0, 5416.0, 5376.0, 5706.0, 5659.0, 5400.0, 5530.0, 5646.0, 5714.0, 5617.0, 5369.0, 5378.0, 5524.0, 5457.0, 5316.0, 5566.0, 5314.0, 5596.0, 5362.0, 5586.0, 5639.0, 5467.0, 5554.0, 5681.0, 5424.0, 5494.0, 5670.0, 5635.0, 5354.0, 5345.0, 5556.0, 5337.0, 5647.0, 5695.0, 5479.0, 5516.0, 5598.0, 5447.0, 5650.0, 5434.0, 5281.0 (number of hits: 5)
5	5270	9	1	333	1	5288.0, 5261.0, 5538.0, 5290.0, 5438.0, 5409.0, 5665.0, 5491.0, 5289.0, 5717.0, 5332.0, 5316.0, 5600.0, 5318.0, 5487.0, 5532.0, 5696.0, 5619.0, 5449.0, 5325.0, 5471.0, 5633.0, 5496.0, 5493.0, 5640.0, 5641.0, 5349.0, 5676.0, 5664.0, 5411.0, 5585.0, 5561.0, 5570.0, 5351.0, 5615.0, 5639.0, 5530.0, 5552.0, 5695.0, 5456.0, 5528.0, 5374.0, 5661.0, 5295.0, 5674.0, 5269.0, 5312.0, 5546.0, 5360.0, 5511.0, 5531.0, 5336.0, 5355.0, 5414.0, 5342.0, 5395.0, 5685.0, 5484.0, 5442.0, 5277.0, 5504.0, 5510.0, 5711.0, 5566.0, 5323.0, 5537.0, 5524.0, 5598.0, 5642.0, 5625.0, 5472.0, 5679.0, 5352.0, 5563.0, 5618.0, 5660.0, 5657.0, 5389.0, 5590.0, 5672.0, 5601.0, 5328.0, 5635.0, 5583.0, 5567.0, 5478.0, 5255.0, 5724.0, 5278.0, 5651.0, 5713.0, 5584.0, 5638.0, 5476.0, 5380.0, 5400.0, 5516.0, 5587.0, 5645.0, 5447.0

						(number of hits: 5)
6	5270	9	1	333	1	5362.0, 5396.0, 5544.0, 5594.0, 5584.0, 5612.0, 5534.0, 5448.0, 5381.0, 5711.0, 5587.0, 5311.0, 5370.0, 5530.0, 5615.0, 5431.0, 5677.0, 5691.0, 5660.0, 5502.0, 5500.0, 5383.0, 5455.0, 5718.0, 5576.0, 5536.0, 5435.0, 5359.0, 5482.0, 5461.0, 5592.0, 5574.0, 5479.0, 5347.0, 5708.0, 5593.0, 5565.0, 5638.0, 5569.0, 5326.0, 5393.0, 5643.0, 5561.0, 5661.0, 5506.0, 5367.0, 5545.0, 5251.0, 5626.0, 5361.0, 5564.0, 5588.0, 5693.0, 5605.0, 5406.0, 5701.0, 5305.0, 5372.0, 5690.0, 5710.0, 5268.0, 5685.0, 5332.0, 5399.0, 5451.0, 5554.0, 5575.0, 5341.0, 5650.0, 5632.0, 5342.0, 5373.0, 5323.0, 5702.0, 5369.0, 5515.0, 5470.0, 5606.0, 5329.0, 5607.0, 5595.0, 5704.0, 5315.0, 5390.0, 5397.0, 5339.0, 5340.0, 5441.0, 5468.0, 5478.0, 5286.0, 5654.0, 5516.0, 5614.0, 5671.0, 5274.0, 5647.0, 5619.0, 5345.0, 5540.0 (number of hits: 3)
7	5270	9	1	333	1	5644.0, 5662.0, 5392.0, 5530.0, 5652.0, 5506.0, 5414.0, 5707.0, 5333.0, 5643.0, 5328.0, 5516.0, 5622.0, 5626.0, 5380.0, 5322.0, 5614.0, 5271.0, 5682.0, 5598.0, 5546.0, 5604.0, 5702.0, 5525.0, 5269.0, 5523.0, 5261.0, 5540.0, 5606.0, 5687.0, 5302.0, 5388.0, 5344.0, 5648.0, 5374.0, 5297.0, 5623.0, 5560.0, 5478.0, 5385.0, 5581.0, 5292.0, 5629.0, 5319.0, 5605.0, 5529.0, 5653.0, 5617.0, 5710.0, 5645.0, 5341.0, 5361.0, 5258.0, 5451.0, 5549.0, 5266.0, 5571.0, 5406.0, 5454.0, 5299.0, 5389.0, 5504.0, 5273.0, 5493.0, 5435.0, 5295.0, 5593.0, 5692.0, 5376.0, 5397.0, 5423.0, 5574.0, 5658.0, 5657.0, 5309.0, 5277.0, 5335.0, 5474.0, 5367.0, 5286.0, 5703.0, 5379.0, 5339.0, 5450.0, 5291.0, 5413.0, 5695.0, 5585.0, 5366.0, 5691.0, 5552.0, 5558.0, 5631.0, 5314.0, 5592.0, 5487.0, 5419.0, 5320.0, 5563.0, 5696.0 (number of hits: 9)
8	5270	9	1	333	1	5292.0, 5285.0, 5343.0, 5402.0, 5413.0, 5565.0, 5374.0, 5548.0, 5523.0, 5423.0, 5663.0, 5571.0, 5286.0, 5328.0, 5603.0, 5360.0, 5397.0, 5417.0, 5709.0, 5640.0, 5368.0, 5324.0, 5371.0, 5576.0, 5433.0, 5271.0, 5340.0, 5372.0, 5649.0, 5335.0, 5593.0, 5519.0, 5501.0, 5396.0, 5468.0, 5398.0, 5420.0, 5318.0, 5276.0, 5261.0, 5405.0, 5569.0, 5634.0, 5382.0, 5307.0, 5442.0, 5650.0, 5545.0, 5350.0, 5290.0, 5580.0, 5522.0, 5349.0, 5325.0, 5369.0, 5572.0, 5383.0, 5410.0, 5464.0, 5674.0,

						5520.0, 5611.0, 5675.0, 5528.0, 5278.0, 5443.0, 5563.0, 5479.0, 5716.0, 5352.0, 5394.0, 5460.0, 5425.0, 5651.0, 5508.0, 5589.0, 5419.0, 5429.0, 5546.0, 5428.0, 5351.0, 5591.0, 5334.0, 5704.0, 5264.0, 5283.0, 5273.0, 5404.0, 5376.0, 5284.0, 5380.0, 5599.0, 5481.0, 5622.0, 5431.0, 5458.0, 5363.0, 5562.0, 5717.0, 5274.0 (number of hits: 5)
9	5270	9	1	333	1	5711.0, 5473.0, 5380.0, 5708.0, 5671.0, 5361.0, 5676.0, 5661.0, 5640.0, 5350.0, 5513.0, 5472.0, 5300.0, 5279.0, 5538.0, 5371.0, 5419.0, 5675.0, 5310.0, 5610.0, 5416.0, 5705.0, 5663.0, 5469.0, 5713.0, 5298.0, 5653.0, 5464.0, 5636.0, 5685.0, 5284.0, 5571.0, 5359.0, 5356.0, 5660.0, 5573.0, 5375.0, 5566.0, 5545.0, 5363.0, 5292.0, 5471.0, 5639.0, 5546.0, 5723.0, 5441.0, 5657.0, 5259.0, 5623.0, 5297.0, 5586.0, 5349.0, 5692.0, 5344.0, 5352.0, 5293.0, 5374.0, 5421.0, 5720.0, 5550.0, 5299.0, 5606.0, 5257.0, 5291.0, 5543.0, 5337.0, 5427.0, 5417.0, 5709.0, 5633.0, 5283.0, 5360.0, 5384.0, 5506.0, 5258.0, 5528.0, 5341.0, 5544.0, 5574.0, 5409.0, 5611.0, 5315.0, 5301.0, 5649.0, 5446.0, 5548.0, 5702.0, 5608.0, 5540.0, 5286.0, 5664.0, 5345.0, 5651.0, 5650.0, 5697.0, 5408.0, 5480.0, 5442.0, 5313.0, 5362.0 (number of hits: 11)
10	5270	9	1	333	1	5296.0, 5261.0, 5304.0, 5582.0, 5329.0, 5404.0, 5327.0, 5704.0, 5398.0, 5530.0, 5290.0, 5610.0, 5408.0, 5426.0, 5349.0, 5493.0, 5627.0, 5418.0, 5480.0, 5576.0, 5504.0, 5389.0, 5568.0, 5343.0, 5386.0, 5442.0, 5626.0, 5706.0, 5532.0, 5450.0, 5359.0, 5662.0, 5427.0, 5550.0, 5337.0, 5285.0, 5468.0, 5345.0, 5383.0, 5636.0, 5547.0, 5544.0, 5278.0, 5671.0, 5488.0, 5482.0, 5561.0, 5512.0, 5353.0, 5300.0, 5642.0, 5669.0, 5577.0, 5714.0, 5267.0, 5682.0, 5579.0, 5452.0, 5363.0, 5302.0, 5339.0, 5712.0, 5719.0, 5432.0, 5674.0, 5258.0, 5443.0, 5621.0, 5529.0, 5357.0, 5552.0, 5548.0, 5361.0, 5380.0, 5424.0, 5500.0, 5276.0, 5695.0, 5283.0, 5605.0, 5410.0, 5713.0, 5422.0, 5598.0, 5321.0, 5589.0, 5462.0, 5391.0, 5523.0, 5633.0, 5381.0, 5511.0, 5478.0, 5670.0, 5572.0, 5412.0, 5451.0, 5575.0, 5496.0, 5461.0 (number of hits: 6)
11	5270	9	1	333	1	5672.0, 5328.0, 5696.0, 5263.0, 5717.0, 5690.0, 5583.0, 5467.0, 5562.0, 5255.0, 5299.0, 5611.0, 5573.0, 5429.0, 5533.0, 5603.0, 5682.0, 5676.0, 5458.0, 5512.0,

						5688.0, 5653.0, 5479.0, 5439.0, 5496.0, 5554.0, 5675.0, 5405.0, 5677.0, 5291.0, 5596.0, 5442.0, 5276.0, 5501.0, 5314.0, 5465.0, 5431.0, 5357.0, 5441.0, 5685.0, 5261.0, 5514.0, 5612.0, 5252.0, 5481.0, 5449.0, 5621.0, 5370.0, 5504.0, 5353.0, 5279.0, 5636.0, 5333.0, 5663.0, 5659.0, 5706.0, 5433.0, 5563.0, 5341.0, 5544.0, 5711.0, 5417.0, 5658.0, 5569.0, 5553.0, 5619.0, 5597.0, 5358.0, 5316.0, 5613.0, 5605.0, 5529.0, 5477.0, 5364.0, 5660.0, 5332.0, 5271.0, 5691.0, 5265.0, 5302.0, 5310.0, 5315.0, 5285.0, 5689.0, 5615.0, 5266.0, 5628.0, 5546.0, 5539.0, 5535.0, 5534.0, 5576.0, 5558.0, 5440.0, 5384.0, 5321.0, 5716.0, 5392.0, 5288.0, 5466.0 (number of hits: 7)
12	5270	9	1	333	1	5573.0, 5318.0, 5295.0, 5651.0, 5337.0, 5511.0, 5519.0, 5722.0, 5290.0, 5551.0, 5515.0, 5320.0, 5661.0, 5602.0, 5560.0, 5395.0, 5684.0, 5707.0, 5505.0, 5302.0, 5705.0, 5272.0, 5600.0, 5518.0, 5680.0, 5406.0, 5287.0, 5669.0, 5344.0, 5498.0, 5650.0, 5597.0, 5525.0, 5568.0, 5620.0, 5534.0, 5541.0, 5637.0, 5303.0, 5578.0, 5633.0, 5647.0, 5338.0, 5313.0, 5642.0, 5365.0, 5334.0, 5298.0, 5672.0, 5590.0, 5463.0, 5668.0, 5382.0, 5268.0, 5666.0, 5489.0, 5438.0, 5378.0, 5408.0, 5576.0, 5523.0, 5533.0, 5683.0, 5273.0, 5327.0, 5329.0, 5517.0, 5259.0, 5364.0, 5359.0, 5546.0, 5706.0, 5626.0, 5405.0, 5340.0, 5611.0, 5678.0, 5711.0, 5676.0, 5362.0, 5348.0, 5351.0, 5596.0, 5542.0, 5570.0, 5503.0, 5527.0, 5703.0, 5269.0, 5659.0, 5470.0, 5458.0, 5660.0, 5277.0, 5265.0, 5682.0, 5312.0, 5352.0, 5335.0, 5466.0 (number of hits: 8)
13	5270	9	1	333	1	5337.0, 5319.0, 5640.0, 5620.0, 5569.0, 5292.0, 5723.0, 5563.0, 5333.0, 5341.0, 5549.0, 5706.0, 5610.0, 5398.0, 5344.0, 5505.0, 5375.0, 5467.0, 5491.0, 5485.0, 5590.0, 5664.0, 5617.0, 5697.0, 5675.0, 5655.0, 5382.0, 5564.0, 5482.0, 5500.0, 5601.0, 5695.0, 5254.0, 5290.0, 5425.0, 5529.0, 5270.0, 5316.0, 5424.0, 5523.0, 5413.0, 5278.0, 5629.0, 5395.0, 5718.0, 5595.0, 5530.0, 5657.0, 5269.0, 5550.0, 5643.0, 5676.0, 5689.0, 5619.0, 5317.0, 5685.0, 5308.0, 5416.0, 5642.0, 5498.0, 5710.0, 5390.0, 5483.0, 5310.0, 5350.0, 5388.0, 5372.0, 5330.0, 5511.0, 5495.0, 5652.0, 5471.0, 5261.0, 5621.0, 5354.0, 5668.0, 5575.0, 5347.0, 5293.0, 5383.0, 5253.0, 5361.0, 5648.0, 5417.0, 5557.0,

						5560.0, 5665.0, 5358.0, 5707.0, 5297.0, 5459.0, 5490.0, 5574.0, 5315.0, 5582.0, 5506.0, 5496.0, 5421.0, 5430.0, 5712.0 (number of hits: 6)
14	5270	9	1	333	1	5602.0, 5379.0, 5645.0, 5686.0, 5444.0, 5482.0, 5572.0, 5509.0, 5317.0, 5505.0, 5557.0, 5320.0, 5703.0, 5496.0, 5285.0, 5673.0, 5543.0, 5680.0, 5477.0, 5471.0, 5670.0, 5318.0, 5539.0, 5375.0, 5721.0, 5479.0, 5615.0, 5595.0, 5547.0, 5623.0, 5399.0, 5700.0, 5283.0, 5636.0, 5372.0, 5345.0, 5537.0, 5669.0, 5260.0, 5697.0, 5625.0, 5266.0, 5402.0, 5354.0, 5501.0, 5258.0, 5428.0, 5684.0, 5564.0, 5672.0, 5485.0, 5575.0, 5323.0, 5495.0, 5361.0, 5660.0, 5272.0, 5412.0, 5654.0, 5587.0, 5643.0, 5606.0, 5314.0, 5464.0, 5447.0, 5570.0, 5385.0, 5490.0, 5296.0, 5546.0, 5607.0, 5407.0, 5418.0, 5676.0, 5493.0, 5453.0, 5388.0, 5442.0, 5251.0, 5286.0, 5518.0, 5253.0, 5590.0, 5309.0, 5702.0, 5545.0, 5519.0, 5621.0, 5263.0, 5396.0, 5563.0, 5290.0, 5560.0, 5565.0, 5589.0, 5358.0, 5651.0, 5281.0, 5630.0, 5559.0 (number of hits: 6)
15	5270	9	1	333	1	5534.0, 5426.0, 5296.0, 5376.0, 5558.0, 5340.0, 5288.0, 5636.0, 5383.0, 5550.0, 5575.0, 5484.0, 5257.0, 5679.0, 5555.0, 5587.0, 5459.0, 5357.0, 5433.0, 5579.0, 5291.0, 5347.0, 5615.0, 5330.0, 5251.0, 5324.0, 5463.0, 5308.0, 5529.0, 5715.0, 5372.0, 5585.0, 5542.0, 5410.0, 5477.0, 5532.0, 5267.0, 5610.0, 5300.0, 5628.0, 5270.0, 5282.0, 5329.0, 5353.0, 5454.0, 5318.0, 5649.0, 5287.0, 5403.0, 5259.0, 5536.0, 5652.0, 5625.0, 5584.0, 5515.0, 5293.0, 5581.0, 5553.0, 5306.0, 5453.0, 5499.0, 5659.0, 5617.0, 5401.0, 5428.0, 5692.0, 5569.0, 5405.0, 5612.0, 5696.0, 5665.0, 5382.0, 5444.0, 5678.0, 5263.0, 5302.0, 5634.0, 5378.0, 5354.0, 5455.0, 5703.0, 5286.0, 5618.0, 5420.0, 5590.0, 5465.0, 5423.0, 5567.0, 5670.0, 5427.0, 5578.0, 5545.0, 5633.0, 5283.0, 5388.0, 5651.0, 5538.0, 5408.0, 5648.0, 5439.0 (number of hits: 10)
16	5270	9	1	333	1	5706.0, 5665.0, 5525.0, 5274.0, 5370.0, 5439.0, 5349.0, 5560.0, 5541.0, 5655.0, 5545.0, 5571.0, 5357.0, 5290.0, 5627.0, 5275.0, 5428.0, 5595.0, 5500.0, 5329.0, 5441.0, 5388.0, 5469.0, 5266.0, 5288.0, 5681.0, 5610.0, 5438.0, 5327.0, 5328.0, 5361.0, 5576.0, 5593.0, 5472.0, 5401.0, 5437.0, 5409.0, 5257.0, 5662.0, 5348.0, 5546.0, 5684.0, 5612.0, 5609.0, 5643.0,

						5284.0, 5542.0, 5339.0, 5631.0, 5494.0, 5600.0, 5286.0, 5320.0, 5685.0, 5538.0, 5395.0, 5509.0, 5405.0, 5412.0, 5551.0, 5337.0, 5636.0, 5547.0, 5677.0, 5671.0, 5336.0, 5250.0, 5521.0, 5705.0, 5475.0, 5316.0, 5330.0, 5478.0, 5637.0, 5559.0, 5644.0, 5620.0, 5687.0, 5440.0, 5535.0, 5301.0, 5512.0, 5335.0, 5716.0, 5302.0, 5296.0, 5638.0, 5299.0, 5282.0, 5267.0, 5561.0, 5468.0, 5584.0, 5317.0, 5501.0, 5416.0, 5324.0, 5632.0, 5718.0, 5394.0 (number of hits: 7)
17	5270	9	1	333	1	5457.0, 5378.0, 5650.0, 5631.0, 5674.0, 5678.0, 5346.0, 5614.0, 5280.0, 5609.0, 5606.0, 5641.0, 5425.0, 5557.0, 5385.0, 5581.0, 5629.0, 5550.0, 5637.0, 5440.0, 5492.0, 5647.0, 5489.0, 5388.0, 5480.0, 5421.0, 5583.0, 5668.0, 5300.0, 5656.0, 5308.0, 5702.0, 5533.0, 5636.0, 5700.0, 5365.0, 5692.0, 5339.0, 5320.0, 5452.0, 5721.0, 5401.0, 5275.0, 5644.0, 5712.0, 5589.0, 5653.0, 5584.0, 5512.0, 5498.0, 5359.0, 5459.0, 5257.0, 5267.0, 5305.0, 5554.0, 5552.0, 5639.0, 5292.0, 5447.0, 5612.0, 5310.0, 5381.0, 5419.0, 5379.0, 5435.0, 5686.0, 5319.0, 5473.0, 5516.0, 5406.0, 5556.0, 5369.0, 5391.0, 5532.0, 5259.0, 5508.0, 5503.0, 5341.0, 5610.0, 5399.0, 5645.0, 5615.0, 5574.0, 5413.0, 5321.0, 5345.0, 5412.0, 5640.0, 5350.0, 5592.0, 5618.0, 5676.0, 5493.0, 5706.0, 5324.0, 5442.0, 5464.0, 5685.0, 5407.0 (number of hits: 5)
18	5270	9	1	333	1	5612.0, 5606.0, 5608.0, 5386.0, 5252.0, 5546.0, 5690.0, 5462.0, 5626.0, 5581.0, 5344.0, 5681.0, 5505.0, 5575.0, 5334.0, 5660.0, 5326.0, 5450.0, 5565.0, 5554.0, 5366.0, 5381.0, 5508.0, 5538.0, 5582.0, 5392.0, 5279.0, 5373.0, 5284.0, 5340.0, 5321.0, 5417.0, 5579.0, 5459.0, 5277.0, 5331.0, 5483.0, 5652.0, 5549.0, 5648.0, 5445.0, 5563.0, 5536.0, 5514.0, 5349.0, 5439.0, 5598.0, 5273.0, 5302.0, 5305.0, 5301.0, 5264.0, 5486.0, 5466.0, 5474.0, 5420.0, 5308.0, 5520.0, 5634.0, 5692.0, 5436.0, 5280.0, 5497.0, 5712.0, 5686.0, 5310.0, 5488.0, 5705.0, 5583.0, 5653.0, 5655.0, 5695.0, 5491.0, 5431.0, 5675.0, 5313.0, 5309.0, 5317.0, 5388.0, 5654.0, 5426.0, 5610.0, 5455.0, 5402.0, 5552.0, 5458.0, 5306.0, 5566.0, 5379.0, 5437.0, 5304.0, 5493.0, 5360.0, 5670.0, 5418.0, 5415.0, 5511.0, 5452.0, 5411.0, 5638.0 (number of hits: 9)
19	5270	9	1	333	1	5443.0, 5540.0, 5314.0, 5315.0, 5539.0,

						5631.0, 5625.0, 5714.0, 5551.0, 5272.0, 5341.0, 5495.0, 5484.0, 5699.0, 5630.0, 5619.0, 5406.0, 5581.0, 5380.0, 5367.0, 5455.0, 5258.0, 5306.0, 5657.0, 5684.0, 5546.0, 5707.0, 5344.0, 5294.0, 5447.0, 5661.0, 5321.0, 5298.0, 5459.0, 5440.0, 5552.0, 5681.0, 5563.0, 5664.0, 5254.0, 5569.0, 5261.0, 5357.0, 5479.0, 5260.0, 5521.0, 5649.0, 5665.0, 5283.0, 5267.0, 5710.0, 5583.0, 5361.0, 5410.0, 5548.0, 5715.0, 5598.0, 5570.0, 5448.0, 5318.0, 5698.0, 5323.0, 5411.0, 5694.0, 5555.0, 5337.0, 5432.0, 5300.0, 5351.0, 5463.0, 5672.0, 5488.0, 5536.0, 5584.0, 5674.0, 5253.0, 5647.0, 5670.0, 5544.0, 5295.0, 5501.0, 5538.0, 5311.0, 5370.0, 5393.0, 5723.0, 5371.0, 5677.0, 5515.0, 5257.0, 5427.0, 5302.0, 5621.0, 5320.0, 5612.0, 5325.0, 5547.0, 5279.0, 5391.0, 5282.0 (number of hits: 8)
20	5270	9	1	333	1	5630.0, 5604.0, 5537.0, 5282.0, 5442.0, 5498.0, 5535.0, 5605.0, 5347.0, 5676.0, 5335.0, 5323.0, 5455.0, 5631.0, 5465.0, 5478.0, 5715.0, 5679.0, 5380.0, 5452.0, 5578.0, 5602.0, 5652.0, 5290.0, 5423.0, 5396.0, 5539.0, 5672.0, 5286.0, 5352.0, 5722.0, 5314.0, 5365.0, 5471.0, 5476.0, 5446.0, 5488.0, 5524.0, 5562.0, 5404.0, 5616.0, 5338.0, 5648.0, 5506.0, 5385.0, 5311.0, 5274.0, 5444.0, 5310.0, 5354.0, 5299.0, 5666.0, 5703.0, 5683.0, 5660.0, 5264.0, 5265.0, 5469.0, 5328.0, 5613.0, 5608.0, 5348.0, 5426.0, 5407.0, 5457.0, 5484.0, 5668.0, 5624.0, 5353.0, 5445.0, 5638.0, 5411.0, 5572.0, 5280.0, 5324.0, 5580.0, 5414.0, 5540.0, 5468.0, 5595.0, 5461.0, 5268.0, 5400.0, 5611.0, 5266.0, 5582.0, 5716.0, 5425.0, 5538.0, 5690.0, 5462.0, 5590.0, 5607.0, 5670.0, 5270.0, 5261.0, 5649.0, 5663.0, 5289.0, 5250.0 (number of hits: 7)
21	5270	9	1	333	1	5415.0, 5378.0, 5473.0, 5434.0, 5290.0, 5654.0, 5695.0, 5612.0, 5507.0, 5658.0, 5583.0, 5662.0, 5535.0, 5514.0, 5545.0, 5288.0, 5398.0, 5509.0, 5531.0, 5634.0, 5350.0, 5495.0, 5703.0, 5359.0, 5456.0, 5314.0, 5536.0, 5711.0, 5588.0, 5276.0, 5579.0, 5324.0, 5272.0, 5563.0, 5540.0, 5713.0, 5550.0, 5483.0, 5299.0, 5262.0, 5714.0, 5636.0, 5479.0, 5692.0, 5626.0, 5723.0, 5468.0, 5684.0, 5360.0, 5676.0, 5423.0, 5589.0, 5280.0, 5443.0, 5541.0, 5503.0, 5267.0, 5277.0, 5565.0, 5333.0, 5438.0, 5453.0, 5664.0, 5459.0, 5341.0, 5478.0, 5367.0, 5463.0, 5515.0, 5405.0,

						5543.0, 5624.0, 5255.0, 5419.0, 5617.0, 5440.0, 5526.0, 5432.0, 5592.0, 5411.0, 5517.0, 5330.0, 5416.0, 5573.0, 5274.0, 5705.0, 5461.0, 5505.0, 5580.0, 5296.0, 5553.0, 5308.0, 5492.0, 5715.0, 5686.0, 5403.0, 5672.0, 5587.0, 5404.0, 5512.0 (number of hits: 6)
22	5270	9	1	333	1	5416.0, 5415.0, 5417.0, 5623.0, 5658.0, 5546.0, 5338.0, 5317.0, 5510.0, 5646.0, 5528.0, 5719.0, 5633.0, 5645.0, 5257.0, 5559.0, 5626.0, 5583.0, 5482.0, 5577.0, 5620.0, 5560.0, 5527.0, 5587.0, 5586.0, 5632.0, 5407.0, 5341.0, 5713.0, 5420.0, 5382.0, 5440.0, 5350.0, 5649.0, 5256.0, 5344.0, 5283.0, 5551.0, 5519.0, 5569.0, 5659.0, 5690.0, 5720.0, 5347.0, 5662.0, 5399.0, 5253.0, 5513.0, 5466.0, 5552.0, 5607.0, 5693.0, 5402.0, 5260.0, 5525.0, 5404.0, 5640.0, 5697.0, 5705.0, 5343.0, 5581.0, 5315.0, 5471.0, 5570.0, 5294.0, 5602.0, 5554.0, 5252.0, 5652.0, 5710.0, 5312.0, 5426.0, 5363.0, 5676.0, 5351.0, 5522.0, 5304.0, 5379.0, 5485.0, 5286.0, 5366.0, 5381.0, 5636.0, 5296.0, 5723.0, 5276.0, 5393.0, 5377.0, 5323.0, 5314.0, 5421.0, 5487.0, 5413.0, 5597.0, 5280.0, 5508.0, 5478.0, 5361.0, 5284.0, 5689.0 (number of hits: 6)
23	5270	9	1	333	1	5312.0, 5710.0, 5266.0, 5612.0, 5494.0, 5269.0, 5525.0, 5531.0, 5342.0, 5365.0, 5556.0, 5371.0, 5268.0, 5358.0, 5432.0, 5658.0, 5273.0, 5489.0, 5535.0, 5600.0, 5601.0, 5581.0, 5530.0, 5646.0, 5610.0, 5498.0, 5379.0, 5461.0, 5599.0, 5444.0, 5438.0, 5457.0, 5632.0, 5543.0, 5547.0, 5491.0, 5271.0, 5668.0, 5565.0, 5551.0, 5492.0, 5549.0, 5572.0, 5367.0, 5627.0, 5392.0, 5385.0, 5256.0, 5484.0, 5688.0, 5647.0, 5689.0, 5673.0, 5542.0, 5662.0, 5384.0, 5303.0, 5375.0, 5720.0, 5682.0, 5509.0, 5675.0, 5262.0, 5473.0, 5450.0, 5584.0, 5393.0, 5284.0, 5481.0, 5541.0, 5607.0, 5723.0, 5666.0, 5264.0, 5659.0, 5561.0, 5389.0, 5314.0, 5680.0, 5502.0, 5506.0, 5278.0, 5619.0, 5571.0, 5338.0, 5513.0, 5318.0, 5585.0, 5558.0, 5591.0, 5270.0, 5598.0, 5568.0, 5265.0, 5553.0, 5414.0, 5409.0, 5440.0, 5281.0, 5257.0 (number of hits: 3)
24	5270	9	1	333	1	5660.0, 5708.0, 5283.0, 5626.0, 5420.0, 5415.0, 5525.0, 5557.0, 5369.0, 5566.0, 5658.0, 5297.0, 5571.0, 5280.0, 5488.0, 5627.0, 5616.0, 5597.0, 5614.0, 5686.0, 5547.0, 5375.0, 5304.0, 5589.0, 5403.0, 5295.0, 5370.0, 5615.0, 5443.0, 5544.0,

						5711.0, 5425.0, 5431.0, 5399.0, 5279.0, 5272.0, 5451.0, 5434.0, 5380.0, 5567.0, 5301.0, 5577.0, 5258.0, 5250.0, 5296.0, 5606.0, 5695.0, 5487.0, 5612.0, 5390.0, 5623.0, 5651.0, 5685.0, 5681.0, 5367.0, 5475.0, 5638.0, 5462.0, 5419.0, 5710.0, 5569.0, 5287.0, 5634.0, 5709.0, 5455.0, 5268.0, 5289.0, 5575.0, 5260.0, 5497.0, 5565.0, 5617.0, 5699.0, 5318.0, 5675.0, 5427.0, 5265.0, 5598.0, 5603.0, 5707.0, 5572.0, 5428.0, 5478.0, 5723.0, 5620.0, 5461.0, 5693.0, 5641.0, 5291.0, 5563.0, 5664.0, 5397.0, 5717.0, 5545.0, 5319.0, 5551.0, 5299.0, 5585.0, 5633.0, 5676.0 (number of hits: 9)
25	5270	9	1	333	1	5630.0, 5386.0, 5448.0, 5594.0, 5316.0, 5453.0, 5615.0, 5295.0, 5612.0, 5271.0, 5314.0, 5310.0, 5684.0, 5406.0, 5704.0, 5595.0, 5482.0, 5648.0, 5459.0, 5346.0, 5720.0, 5694.0, 5306.0, 5389.0, 5690.0, 5344.0, 5362.0, 5431.0, 5711.0, 5545.0, 5471.0, 5475.0, 5360.0, 5508.0, 5562.0, 5536.0, 5715.0, 5454.0, 5473.0, 5714.0, 5579.0, 5649.0, 5442.0, 5573.0, 5681.0, 5461.0, 5631.0, 5529.0, 5290.0, 5402.0, 5253.0, 5291.0, 5509.0, 5557.0, 5709.0, 5298.0, 5286.0, 5589.0, 5313.0, 5645.0, 5565.0, 5705.0, 5490.0, 5396.0, 5640.0, 5323.0, 5556.0, 5601.0, 5309.0, 5642.0, 5639.0, 5499.0, 5319.0, 5558.0, 5460.0, 5692.0, 5438.0, 5553.0, 5602.0, 5439.0, 5620.0, 5617.0, 5657.0, 5599.0, 5452.0, 5486.0, 5259.0, 5470.0, 5339.0, 5458.0, 5619.0, 5479.0, 5507.0, 5703.0, 5415.0, 5412.0, 5373.0, 5296.0, 5496.0, 5575.0 (number of hits: 11)
26	5270	9	1	333	1	5650.0, 5559.0, 5326.0, 5278.0, 5328.0, 5367.0, 5418.0, 5279.0, 5589.0, 5300.0, 5406.0, 5409.0, 5485.0, 5477.0, 5420.0, 5599.0, 5401.0, 5686.0, 5474.0, 5677.0, 5585.0, 5513.0, 5696.0, 5537.0, 5451.0, 5488.0, 5452.0, 5597.0, 5352.0, 5272.0, 5493.0, 5601.0, 5377.0, 5479.0, 5563.0, 5657.0, 5612.0, 5321.0, 5694.0, 5372.0, 5310.0, 5546.0, 5593.0, 5626.0, 5471.0, 5257.0, 5357.0, 5292.0, 5700.0, 5320.0, 5361.0, 5468.0, 5691.0, 5656.0, 5428.0, 5332.0, 5543.0, 5491.0, 5590.0, 5518.0, 5496.0, 5631.0, 5338.0, 5305.0, 5453.0, 5269.0, 5535.0, 5512.0, 5497.0, 5363.0, 5620.0, 5712.0, 5495.0, 5398.0, 5486.0, 5718.0, 5574.0, 5449.0, 5448.0, 5439.0, 5297.0, 5630.0, 5642.0, 5719.0, 5301.0, 5671.0, 5704.0, 5698.0, 5628.0, 5345.0, 5706.0, 5569.0, 5362.0, 5277.0, 5466.0,

						5407.0, 5461.0, 5435.0, 5550.0, 5608.0 (number of hits: 6)
27	5270	9	1	333	1	5546.0, 5589.0, 5386.0, 5253.0, 5358.0, 5315.0, 5360.0, 5352.0, 5691.0, 5567.0, 5529.0, 5588.0, 5659.0, 5439.0, 5322.0, 5509.0, 5280.0, 5693.0, 5408.0, 5619.0, 5457.0, 5651.0, 5336.0, 5327.0, 5432.0, 5286.0, 5368.0, 5296.0, 5607.0, 5716.0, 5514.0, 5533.0, 5561.0, 5668.0, 5371.0, 5631.0, 5525.0, 5318.0, 5355.0, 5493.0, 5261.0, 5483.0, 5323.0, 5278.0, 5642.0, 5392.0, 5399.0, 5381.0, 5430.0, 5250.0, 5462.0, 5331.0, 5482.0, 5593.0, 5562.0, 5401.0, 5712.0, 5569.0, 5378.0, 5710.0, 5380.0, 5709.0, 5489.0, 5706.0, 5413.0, 5686.0, 5661.0, 5258.0, 5629.0, 5488.0, 5590.0, 5394.0, 5452.0, 5264.0, 5538.0, 5374.0, 5526.0, 5583.0, 5574.0, 5363.0, 5321.0, 5383.0, 5433.0, 5461.0, 5568.0, 5656.0, 5633.0, 5499.0, 5396.0, 5592.0, 5387.0, 5484.0, 5503.0, 5579.0, 5626.0, 5610.0, 5605.0, 5576.0, 5486.0, 5284.0 (number of hits: 2)
28	5270	9	1	333	1	5582.0, 5545.0, 5415.0, 5397.0, 5560.0, 5549.0, 5459.0, 5491.0, 5525.0, 5435.0, 5577.0, 5684.0, 5621.0, 5639.0, 5445.0, 5321.0, 5438.0, 5375.0, 5537.0, 5638.0, 5331.0, 5418.0, 5527.0, 5409.0, 5695.0, 5434.0, 5713.0, 5511.0, 5627.0, 5317.0, 5419.0, 5650.0, 5530.0, 5332.0, 5440.0, 5267.0, 5492.0, 5678.0, 5594.0, 5499.0, 5697.0, 5430.0, 5278.0, 5261.0, 5686.0, 5351.0, 5613.0, 5540.0, 5676.0, 5296.0, 5668.0, 5498.0, 5572.0, 5292.0, 5597.0, 5544.0, 5578.0, 5666.0, 5564.0, 5337.0, 5286.0, 5280.0, 5571.0, 5677.0, 5591.0, 5401.0, 5506.0, 5611.0, 5341.0, 5283.0, 5620.0, 5251.0, 5358.0, 5305.0, 5420.0, 5326.0, 5294.0, 5558.0, 5653.0, 5556.0, 5490.0, 5717.0, 5400.0, 5453.0, 5562.0, 5682.0, 5669.0, 5633.0, 5596.0, 5456.0, 5557.0, 5383.0, 5378.0, 5393.0, 5608.0, 5539.0, 5570.0, 5702.0, 5281.0, 5675.0 (number of hits: 5)
29	5270	9	1	333	1	5689.0, 5507.0, 5564.0, 5326.0, 5325.0, 5539.0, 5538.0, 5532.0, 5637.0, 5327.0, 5547.0, 5581.0, 5320.0, 5318.0, 5622.0, 5386.0, 5659.0, 5409.0, 5692.0, 5544.0, 5323.0, 5679.0, 5602.0, 5627.0, 5485.0, 5439.0, 5380.0, 5398.0, 5419.0, 5310.0, 5695.0, 5696.0, 5427.0, 5282.0, 5647.0, 5533.0, 5354.0, 5651.0, 5365.0, 5461.0, 5339.0, 5619.0, 5455.0, 5674.0, 5556.0, 5540.0, 5346.0, 5664.0, 5391.0, 5631.0, 5630.0, 5315.0, 5662.0, 5332.0, 5401.0,

						5410.0, 5335.0, 5487.0, 5333.0, 5495.0, 5551.0, 5578.0, 5280.0, 5686.0, 5433.0, 5289.0, 5429.0, 5607.0, 5700.0, 5477.0, 5687.0, 5573.0, 5568.0, 5444.0, 5488.0, 5694.0, 5464.0, 5486.0, 5262.0, 5641.0, 5330.0, 5552.0, 5359.0, 5258.0, 5555.0, 5688.0, 5577.0, 5530.0, 5661.0, 5279.0, 5517.0, 5266.0, 5601.0, 5632.0, 5463.0, 5512.0, 5497.0, 5276.0, 5550.0, 5449.0 (number of hits: 2)
30	5270	9	1	333	1	5488.0, 5543.0, 5562.0, 5311.0, 5676.0, 5304.0, 5528.0, 5300.0, 5479.0, 5558.0, 5545.0, 5670.0, 5452.0, 5282.0, 5257.0, 5556.0, 5376.0, 5399.0, 5254.0, 5614.0, 5412.0, 5286.0, 5318.0, 5703.0, 5510.0, 5559.0, 5631.0, 5385.0, 5256.0, 5362.0, 5462.0, 5534.0, 5518.0, 5529.0, 5509.0, 5336.0, 5293.0, 5649.0, 5642.0, 5587.0, 5604.0, 5253.0, 5272.0, 5593.0, 5658.0, 5689.0, 5407.0, 5263.0, 5291.0, 5409.0, 5439.0, 5702.0, 5643.0, 5274.0, 5591.0, 5532.0, 5445.0, 5678.0, 5578.0, 5624.0, 5682.0, 5569.0, 5478.0, 5672.0, 5345.0, 5585.0, 5549.0, 5340.0, 5320.0, 5492.0, 5606.0, 5483.0, 5535.0, 5334.0, 5683.0, 5475.0, 5563.0, 5583.0, 5709.0, 5487.0, 5413.0, 5654.0, 5339.0, 5599.0, 5361.0, 5466.0, 5633.0, 5655.0, 5312.0, 5415.0, 5423.0, 5428.0, 5622.0, 5259.0, 5326.0, 5448.0, 5660.0, 5496.0, 5524.0, 5574.0 (number of hits: 7)

5550 MHz

Radar Signal Type	Waveform/Trial Number	Detection (%)	Limit (%)	Pass/Fail
Type 1	30	83.3 %	60%	Pass
Type 2	30	90 %	60%	Pass
Type 3	30	100 %	60%	Pass
Type 4	30	100 %	60%	Pass
Aggregate (Type1 to 4)	120	93.3 %	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	5550	18	1	1428	1
2	5550	18	1	1428	1
3	5550	18	1	1428	1
4	5550	18	1	1428	1
5	5550	18	1	1428	1
6	5550	18	1	1428	1
7	5550	18	1	1428	0
8	5550	18	1	1428	1
9	5550	18	1	1428	1
10	5550	18	1	1428	0
11	5550	18	1	1428	0
12	5550	18	1	1428	1
13	5550	18	1	1428	1
14	5550	18	1	1428	1
15	5550	18	1	1428	1
16	5550	18	1	1428	1
17	5550	18	1	1428	1
18	5550	18	1	1428	1
19	5550	18	1	1428	1
20	5550	18	1	1428	1
21	5550	18	1	1428	1
22	5550	18	1	1428	1
23	5550	18	1	1428	0
24	5550	18	1	1428	0
25	5550	18	1	1428	1
26	5550	18	1	1428	1
27	5550	18	1	1428	1
28	5550	18	1	1428	1
29	5550	18	1	1428	1
30	5550	18	1	1428	1
Detection Percentage: 83.3 % (>60%)					

Table-2 Radar Type 2 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5550	29	5	190	1
2	5550	25	3.7	185	0
3	5550	26	2.1	201	1
4	5550	25	4.9	184	1
5	5550	25	2.4	198	1
6	5550	27	4.6	223	1
7	5550	29	2.5	180	1
8	5550	24	4.2	174	1
9	5550	26	2.6	196	1
10	5550	25	1.2	166	1
11	5550	28	4.6	217	0
12	5550	29	1.7	204	1
13	5550	28	4.9	203	1
14	5550	27	3.1	164	1
15	5550	25	2.6	199	1
16	5550	26	3	194	1
17	5550	24	3.5	180	1
18	5550	27	1.8	221	1
19	5550	28	3.9	189	1
20	5550	27	2.1	150	1
21	5550	26	1.8	164	1
22	5550	24	4.4	150	0
23	5550	26	4.5	206	1
24	5550	27	1.6	181	1
25	5550	25	2.3	188	1
26	5550	28	4.8	156	1
27	5550	28	2.1	169	1
28	5550	23	4.1	218	1
29	5550	25	3.2	198	1
30	5550	29	4.6	175	1
Detection Percentage: 90% (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5550	16	9.1	438	1
2	5550	17	8.8	386	1
3	5550	16	8.1	381	1
4	5550	16	7.9	409	1
5	5550	16	8.5	409	1
6	5550	16	6.1	228	1
7	5550	16	8.7	258	1
8	5550	18	8.6	324	1
9	5550	18	8.1	418	1
10	5550	16	9.9	216	1
11	5550	16	9.2	232	1
12	5550	17	9.1	325	1
13	5550	17	9.3	439	1
14	5550	16	9.5	320	1
15	5550	16	7	268	1
16	5550	18	7.8	221	1
17	5550	17	6.6	360	1
18	5550	16	7	223	1
19	5550	17	7.8	322	1
20	5550	16	9.7	493	1
21	5550	17	6.3	361	1
22	5550	18	7.4	320	1
23	5550	16	8.8	467	1
24	5550	18	6.8	314	1
25	5550	16	9.2	272	1
26	5550	17	9.2	449	1
27	5550	18	9.9	333	1
28	5550	16	8	364	1
29	5550	16	6.2	215	1
30	5550	16	9.8	420	1
Detection Percentage: 100 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5550	13	12	365	1
2	5550	14	14.3	453	1
3	5550	12	18.9	224	1
4	5550	12	15.3	438	1
5	5550	13	15.9	444	1
6	5550	12	12	216	1
7	5550	16	15.1	276	1
8	5550	15	11.4	243	1
9	5550	15	17.6	392	1
10	5550	14	16	257	1
11	5550	15	12.2	282	1
12	5550	13	16.3	499	1
13	5550	16	19.8	486	1
14	5550	15	18	387	1
15	5550	13	18.8	487	1
16	5550	15	16.1	258	1
17	5550	16	15.4	314	1
18	5550	16	19.3	418	1
19	5550	15	11.1	332	1
20	5550	12	15	449	1
21	5550	14	17.3	360	1
22	5550	13	15.2	389	1
23	5550	12	17.1	370	1
24	5550	14	15.9	285	1
25	5550	12	17.6	473	1
26	5550	14	11.8	248	1
27	5550	15	16	207	1
28	5550	12	14.3	426	1
29	5550	16	11.7	271	1
30	5550	16	13.3	381	1
Detection Percentage: 100 % (>60%)					

Table-5 Radar Type 5 Statistical Performance

Bin5 Statistics 1

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	8	98.6	1455		0.516269	
1	2	18	80.7	1094		1.151456	
2	3	16	66.9	1607	1075	2.262532	
3	2	13	70.1	1520		3.030473	
4	2	10	64.3	1462		3.733019	
5	2	9	65.7	1455		5.210126	
6	1	19	68.6			6.279923	1
7	2	6	84.9	1805		6.641063	
8	1	9	68.9			7.962838	
9	3	17	93.4	1336	1758	9.184571	
10	3	8	56.1	1293	1076	9.902334	
11	2	15	68.4	1334		10.986673	
12	2	10	84.5	1186		11.499606	

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	62.5	1009		0.48998	
1	2	15	69	1535		1.034497	
2	1	10	91.3			1.681838	
3	1	16	55.9			2.68288	
4	2	8	54.7	1367		3.917684	
5	1	18	89.5			4.558067	
6	3	8	82	1814	1020	5.22969	1
7	2	10	88.6	1019		6.30505	
8	2	15	80.6	1008		6.549881	
9	1	17	86.6			7.900164	
10	2	11	63.2	1999		8.791035	
11	3	13	70.9	1507	1303	11.58803	

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	18	66.5	1295		0.482466	1
1	2	12	88.3	1001		1.173233	
2	2	12	99.4	1647		1.338191	
3	1	8	56			2.498767	
4	2	9	80.2	1724		3.143242	
5	2	14	99.9	1842		3.772551	
6	3	9	50.1	1393	1549	4.212666	
7	1	14	90.9			5.18884	
8	2	12	57.9	1223		5.586417	
9	2	19	54.8	1161		6.47078	
10	1	12	74.6			6.823001	
11	2	8	97.2	1972		7.790645	
12	2	17	99	1748		8.20904	
13	3	14	81.7	1114	1001	9.317741	
14	2	19	84.3	1313		9.857669	
15	2	12	90.4	1217		10.034757	
16	1	10	62.6			10.722536	
17	2	10	96.4	1537		11.743424	

Bin5 Statistics 4

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	6	50.4	1784	1599	0.749531	1
1	2	15	71.1	1544		1.496469	
2	3	17	71.9	1818	1081	2.7253	
3	2	18	79.9	1700		3.13784	
4	2	14	52.7	1265		4.408686	
5	2	7	57.6	1826		5.197577	
6	3	16	92	1295	1476	6.377574	
7	2	10	74.4	1650		6.687814	
8	2	6	55	1847		7.743867	
9	2	6	68.1	1155		8.890739	
10	2	19	94.4	1758		9.623034	
11	2	13	85.3	1253		10.671865	
12	2	6	54.9	1272		11.767447	

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	20	60.7	1585	1895	0.608715	1
1	2	6	51.4	1887		0.845818	
2	3	8	90.6	1674	1266	1.759875	
3	2	13	94.6	1806		2.744808	
4	1	19	92.4			3.002121	
5	2	16	75.5	1051		3.776579	
6	2	10	64.5	1923		4.50132	
7	1	13	55.5			5.652003	
8	1	11	66.2			6.171355	
9	2	18	58.7	1332		7.399984	
10	3	8	50.3	1209	1231	7.567939	
11	2	18	95	1713		8.719714	
12	2	9	65.7	1477		9.488161	
13	2	16	78.9	1385		9.832732	
14	2	16	98.1	1107		10.985144	
15	1	19	72.6			11.827582	

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	6	70.6			0.728941	1
1	2	5	98.4	1987		0.88889	
2	2	7	67.8	1611		2.226824	
3	2	14	93.2	1069		2.904376	
4	2	13	85.2	1811		3.615439	
5	2	14	72.7	1617		4.317919	
6	2	8	55.4	1726		5.002792	
7	3	8	98.1	1696	1513	5.989508	
8	2	20	68.9	1918		6.250005	
9	2	9	63	1707		6.948006	
10	1	12	95.3			7.828625	
11	2	15	92.6	1409		8.702304	
12	3	10	75.8	1270	1242	9.022685	
13	3	13	52.6	1768	1003	9.830228	
14	2	10	53.7	1275		10.503154	
15	1	14	52.1			11.364958	

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	14	59.3	1376		0.629545	
1	2	19	81.7	1320		0.767319	
2	3	16	51.7	1884	1551	1.907352	
3	1	16	93.5			2.958584	
4	1	6	91.8			3.300604	
5	3	11	71	1897	1546	4.298034	
6	2	8	80.8	1461		4.513322	
7	1	5	83.2			5.520842	
8	1	9	82.9			6.669332	1
9	2	10	71.4	1927		6.919517	
10	1	10	74.7			7.745693	
11	3	7	56.9	1944	1654	8.559034	
12	3	6	74.3	1488	1486	9.22954	
13	2	18	58.3	1213		9.982921	
14	2	14	81.1	1226		11.125301	
15	3	9	98.4	1979	1247	11.684072	

Bin5 Statistics 8

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	6	89.7	1395		0.412978	
1	2	9	57.4	1752		1.476049	
2	2	10	90.8	1833		2.144126	
3	2	18	74.8	1780		2.470102	
4	2	7	54.7	1629		3.825561	
5	2	14	90.8	1878		4.445107	
6	2	7	99.6	1958		4.848434	
7	2	13	64.1	1748		5.725134	1
8	2	17	58.2	1415		7.186175	
9	2	8	67.1	1185		7.978552	
10	1	11	72.6			8.209495	
11	3	10	71.8	1006	1914	9.263885	
12	2	8	85.7	1641		9.948829	
13	2	9	90.9	1842		10.656279	
14	2	20	96.4	1733		11.545091	

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	15	57.6	1534	1067	0.347763	
1	1	16	78.7			1.610184	
2	2	15	91.5	1963		1.937881	
3	2	15	70.6	1828		3.172418	
4	1	13	97.3			3.658049	
5	2	6	87.5	1436		4.525643	
6	3	10	68.9	1677	1885	5.267344	
7	3	10	96	1783	1407	6.614853	1
8	1	8	69.9			7.355531	
9	2	19	81.1	1556		8.446002	
10	2	19	70.5	1977		8.713449	
11	2	5	72.8	1111		10.19349	
12	2	12	66.2	1275		10.973637	
13	1	7	85.3			11.201901	

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	80.9	1446		1.070241	
1	2	15	73.4	1879		1.40516	
2	1	17	91.8			2.885253	
3	2	15	74.2	1148		4.898711	
4	2	12	80.6	1128		6.277151	1
5	3	15	98.5	1605	1668	7.249768	
6	1	17	82.3			8.578492	
7	2	16	65.3	1561		9.339816	
8	1	13	73.4			11.2757	

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	97.5	1159		0.605637	
1	3	9	52.6	1561	1155	2.465216	
2	2	6	65.8	1623		4.164336	
3	2	12	65.1	1464		4.765732	1
4	2	10	82	1545		6.908868	
5	2	12	80.1	1215		8.974624	
6	3	14	53.2	1180	1285	10.17954	
7	1	10	88.1			11.005138	

Bin5 Statistics 12

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	14	85.3	1042	1229	0.52465	1
1	1	8	71.8			1.384674	
2	1	13	74			1.687437	
3	1	9	77.3			2.725021	
4	2	5	91.7	1969		3.026343	
5	3	18	87.2	1373	1443	4.062152	
6	2	8	78.8	1244		4.806961	
7	2	15	79.3	1536		5.873072	
8	1	6	84.1			6.428407	
9	1	18	66.5			7.17594	
10	1	17	69.1			8.214243	
11	2	16	67.7	1702		8.493973	
12	3	13	93.4	1326	1243	9.493825	
13	2	11	96.8	1201		10.153211	
14	3	16	67.1	1248	1838	11.235791	
15	2	12	65	1296		11.592885	

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	9	92.7	1092		0.4916	1
1	1	6	91.6			1.014473	
2	2	15	85.3	1765		1.291621	
3	2	18	97	1744		2.070504	
4	3	13	83.1	1508	1670	3.000859	
5	3	14	97.5	1104	1523	3.172649	
6	2	8	53.3	1514		3.959243	
7	2	7	89.2	1106		4.841824	
8	3	16	54.1	1241	1889	5.488822	
9	2	6	96.4	1049		5.696956	
10	1	17	65.1			6.534993	
11	2	12	71	1068		7.13058	
12	2	12	83.1	1934		8.116716	
13	1	8	84.2			8.620154	
14	1	7	76.8			9.144307	
15	3	7	73	1811	1873	9.891444	
16	2	16	61.5	1268		10.262207	
17	3	7	90.3	1598	1928	10.918226	
18	1	7	65.7			11.563936	

Bin5 Statistics 14

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	12	90	1462		0.309433	1
1	1	16	98.3			1.345121	
2	1	8	52.5			3.453112	
3	2	7	80.6	1083		4.711892	
4	2	13	95.8	1288		5.445034	
5	1	12	63.1			6.138624	
6	1	17	58.7			8.019181	
7	2	13	55.3	1361		8.500397	
8	2	5	56.1	1611		10.163717	
9	2	7	59.5	1802		11.31407	

Bin5 Statistics 15

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	7	62.4	1315		0.178887	1
1	3	5	85.4	1573	1568	1.211568	
2	2	15	68.8	1154		2.089242	
3	3	5	95.9	1376	1516	3.46772	
4	2	9	90.7	1560		3.847987	
5	2	14	81.4	1467		5.044366	
6	3	12	96.2	1344	1534	5.840014	
7	2	11	69.9	1480		6.909135	
8	2	18	71.7	1518		7.561988	
9	2	6	84	1750		9.150931	
10	3	18	86.6	1059	1036	9.78586	
11	2	13	76.6	1398		10.877962	
12	1	20	56.6			11.91804	

Bin5 Statistics 16

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	5	54.7			0.466992	1
1	3	8	58.6	1054	1943	1.643633	
2	1	6	75.7			2.867362	
3	1	19	62.5			3.531157	
4	2	7	86.4	1303		4.300776	
5	1	19	83.1			5.337823	
6	3	15	96.1	1040	1753	6.051315	
7	3	10	67.4	1804	1866	7.012591	
8	2	6	50.2	1606		8.702489	
9	3	14	90.5	1575	1882	9.938586	
10	2	13	73.8	1191		10.148312	
11	2	16	72.5	1432		11.602478	

Bin5 Statistics 17

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	15	52.2			0.549847	
1	2	6	84.7	1113		0.957101	
2	1	8	66.7			1.733974	
3	3	7	78.1	1103	1748	2.162968	
4	2	11	80.2	1776		2.739069	
5	3	10	57.6	1121	1085	3.251583	
6	2	7	89.9	1847		4.293547	
7	3	6	70.4	1090	1923	4.719111	
8	2	11	68.2	1433		5.430353	
9	3	9	98.3	1905	1242	6.236271	1
10	3	11	78	1092	1278	6.325908	
11	1	17	75.1			7.099249	
12	1	17	58.9			8.146221	
13	1	9	52.2			8.534412	
14	1	15	71.5			9.102489	
15	3	5	73.5	1293	1484	9.524694	
16	3	7	67.8	1459	1196	10.412523	
17	2	18	79.8	1453		10.969984	
18	2	14	52.7	1709		11.767906	

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	7	64.2	1505		0.76938	1
1	1	7	56.4			2.178637	
2	2	19	69.3	1578		2.986597	
3	1	14	83.9			3.893688	
4	2	16	84.8	1337		5.9605	
5	2	19	54.5	1652		6.519925	
6	2	17	56.5	1050		7.835139	
7	2	10	76.5	1375		8.914923	
8	2	18	85.5	1589		10.103366	
9	3	9	85.8	1373	1715	10.858721	

Bin5 Statistics 19

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	7	57.6	1062		0.631132	1
1	2	14	87.7	1981		1.150011	
2	1	8	69.8			3.255273	
3	2	15	61.5	1564		3.321324	
4	2	14	66.8	1291		4.370688	
5	2	7	67.3	1523		5.719829	
6	1	16	85.8			7.027477	
7	2	11	71	1137		8.387046	
8	1	14	84.3			9.466462	
9	2	8	60.4	1135		10.26663	
10	2	11	81.3	1591		11.924233	

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	63.1	1218		0.29334	
1	2	15	67.6	1593		0.962421	
2	1	15	62.9			1.518303	
3	3	11	82.5	1450	1367	2.57404	
4	2	20	63.9	1144		3.201077	
5	2	5	78.5	1094		3.822915	
6	2	14	81.1	1462		4.265237	
7	2	9	68.1	1984		5.255921	
8	2	12	52.4	1601		5.665313	1
9	1	14	50.1			6.747384	
10	1	9	73.3			7.179391	
11	2	18	79.7	1030		7.796168	
12	2	14	94.8	1921		8.919957	
13	3	17	99.9	1113	1115	9.690438	
14	3	7	86	1647	1565	10.092357	
15	1	10	70.5			10.851857	
16	2	20	82.3	1883		11.975004	

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	12	59.4	1884	1921	0.005883	1
1	2	11	89.5	1560		1.360783	
2	3	18	53	1189	1551	1.797537	
3	2	9	58.8	1383		2.99593	
4	3	8	69.6	1137	1392	3.569377	
5	2	11	84.8	1619		4.958689	
6	2	6	53.3	1564		5.308773	
7	2	9	85.2	1840		6.114875	
8	2	6	72.3	1190		7.259915	
9	3	12	61.1	1428	1794	8.202349	
10	1	20	57.2			8.873077	
11	2	8	80.2	1270		9.971093	
12	1	6	67.6			10.779419	
13	2	6	51.3	1830		11.567509	

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	6	64.1	1913	1827	0.500744	1
1	1	6	76.5			0.789316	
2	2	10	89	1888		1.341193	
3	1	9	78.4			2.133284	
4	2	16	88.7	1416		2.822092	
5	2	17	56.7	1803		3.419779	
6	3	19	99.1	1686	1516	4.128508	
7	2	19	73.6	1089		4.884439	
8	2	7	96.6	1755		5.77636	
9	3	13	67.3	1577	1341	6.295493	
10	3	13	55.4	1440	1140	6.916695	
11	3	5	63.1	1710	1551	7.59962	
12	1	13	73.1			8.015483	
13	2	6	62.7	1478		8.699754	
14	2	15	51.9	1109		9.620527	
15	3	12	91.2	1866	1321	10.180054	
16	2	18	73.1	1081		11.311579	
17	2	15	95.9	1640		11.900367	

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	10	58.1	1507	1943	0.722476	1
1	1	15	54.2			1.615086	
2	1	11	73			2.028373	
3	2	7	69.1	1325		2.87084	
4	3	19	77	1922	1956	4.121141	
5	2	9	68.3	1664		5.120496	
6	3	12	80.2	1750	1754	5.427748	
7	2	11	64.4	1022		6.115445	
8	3	10	73.1	1862	1494	7.113024	
9	3	11	61.9	1429	1802	7.937805	
10	1	18	67.4			8.59683	
11	2	11	84.2	1202		10.273041	
12	1	6	90.2			10.847529	
13	2	18	58.7	1699		11.212424	

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	87.4			0.603398	1
1	2	7	88.3	1995		1.269175	
2	1	9	69.6			2.269426	
3	2	17	69.4	1937		3.618188	
4	2	18	60.2	1887		4.985906	
5	2	5	84.3	1658		6.125112	
6	1	17	54.3			7.218492	
7	2	15	80.2	1740		8.08542	
8	2	16	64.5	1751		9.157987	
9	2	20	99.8	1913		10.543629	
10	2	9	90.3	1544		10.9181	

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	20	87.3	1715		0.238388	
1	3	12	85.1	1590	1006	0.726915	
2	1	17	60.7			1.335077	
3	2	18	58.5	1227		2.446525	
4	2	13	87.4	1276		2.795171	
5	2	5	51.7	1138		3.361236	
6	2	18	53.2	1251		4.477222	
7	3	19	55.6	1443	1651	4.769185	
8	3	18	71.9	1860	1289	5.461309	1
9	2	17	85.7	1729		6.58277	
10	2	12	85.9	1547		6.726292	
11	2	10	57.6	1206		7.640366	
12	3	14	94.3	1212	1595	8.272823	
13	3	17	73.3	1683	1196	9.252685	
14	3	20	91.2	1400	1333	9.940976	
15	1	12	76.8			10.648016	
16	3	5	80.3	1796	1317	11.082712	
17	2	6	73.2	1592		11.859262	

Bin5 Statistics 26

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	20	80.4	1890		0.465494	1
1	3	19	52.6	1985	1758	1.344122	
2	2	6	91.7	1208		1.431015	
3	2	7	70.3	1287		2.46096	
4	1	6	51.7			3.460125	
5	2	7	98.4	1190		4.099862	
6	3	5	73.2	1735	1990	4.764258	
7	2	19	51.9	1978		5.211084	
8	3	10	87.8	1984	1046	5.804782	
9	2	9	71.1	1307		6.668886	
10	3	7	89.5	1868	1349	7.293595	
11	2	12	56.2	1850		7.921369	
12	3	9	62.2	1365	1318	8.863679	
13	1	18	99.8			9.312944	
14	1	6	91.9			9.978989	
15	2	18	62	1349		10.692608	
16	2	10	96.2	1281		11.722375	

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	12	56.7	1426	1627	0.966172	1
1	1	19	79.1			1.385873	
2	3	14	92.9	1642	1768	2.155189	
3	1	7	86.8			3.316566	
4	2	9	62.6	1191		4.096293	
5	3	15	56.4	1905	1418	5.095747	
6	3	13	83.4	1140	1478	6.648162	
7	1	9	96.6			7.95785	
8	3	15	83.1	1787	1788	8.216074	
9	2	17	62	1698		9.299767	
10	3	6	59.8	1545	1777	10.474244	
11	2	17	90.9	1139		11.46059	

Bin5 Statistics 28

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	6	58			0.572191	
1	2	7	87	1374		1.019258	
2	2	13	50.2	1877		2.196325	
3	3	13	60.4	1421	1515	2.676138	
4	3	7	65.7	1642	1012	3.227727	
5	2	13	88	1451		3.960055	
6	3	13	53.4	1550	1428	4.839763	
7	3	14	55	1628	1786	5.979119	1
8	3	11	84.1	1622	1635	6.065758	
9	3	8	58.2	1663	1093	6.930643	
10	2	16	51.5	1930		7.78479	
11	2	14	55.3	1010		8.843624	
12	1	20	73.8			9.109126	
13	1	14	99.5			9.875748	
14	2	18	82.6	1814		10.757078	
15	2	12	59.5	1446		11.924801	

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	11	87.6	1518	1403	0.066805	
1	2	15	76.5	1488		1.651131	
2	1	9	76.3			3.262957	
3	1	15	52.1			3.805639	
4	2	13	57.8	1620		5.249164	
5	1	11	80			6.61555	1
6	2	6	54.9	1684		8.181035	
7	1	10	53.1			9.379597	
8	1	19	95.3			10.009591	
9	2	14	82.7	1779		11.668158	

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	8	80.1	1679		0.756639	
1	1	6	55			1.764861	
2	3	16	92.2	1535	1313	2.396038	
3	2	6	79.7	1285		4.099686	
4	2	7	96.9	1843		5.331302	
5	2	12	84.1	1142		6.500125	1
6	2	8	66.3	1801		7.428492	
7	2	8	72.7	1513		8.636214	
8	2	14	90.1	1931		9.520578	
9	2	16	72.3	1709		10.765136	
10	1	17	69.1			11.660512	

Table-6 Radar Type 6 Statistical Performance

Trial #	Fc (MHz)	Pulse /Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)	Hopping Sequence
1	5550	9	1	333	1	5347.0, 5544.0, 5655.0, 5663.0, 5489.0, 5718.0, 5332.0, 5564.0, 5641.0, 5363.0, 5643.0, 5270.0, 5679.0, 5565.0, 5492.0, 5521.0, 5686.0, 5594.0, 5360.0, 5285.0, 5552.0, 5455.0, 5620.0, 5482.0, 5335.0, 5721.0, 5254.0, 5480.0, 5324.0, 5444.0, 5325.0, 5651.0, 5304.0, 5379.0, 5365.0, 5316.0, 5289.0, 5487.0, 5307.0, 5317.0, 5685.0, 5636.0, 5361.0, 5557.0, 5634.0, 5522.0, 5320.0, 5344.0, 5497.0, 5665.0, 5356.0, 5279.0, 5536.0, 5435.0, 5619.0, 5390.0, 5475.0, 5308.0, 5542.0, 5621.0, 5506.0, 5362.0, 5327.0, 5530.0, 5393.0, 5601.0, 5330.0, 5373.0, 5265.0, 5526.0, 5322.0, 5714.0, 5635.0, 5518.0, 5524.0, 5339.0, 5493.0, 5477.0, 5441.0, 5462.0, 5366.0, 5618.0, 5302.0, 5343.0, 5559.0, 5585.0, 5311.0, 5613.0, 5668.0, 5278.0, 5359.0, 5671.0, 5458.0, 5472.0, 5405.0, 5300.0, 5659.0, 5569.0, 5420.0, 5606.0 (number of hits: 8)
2	5550	9	1	333	1	5589.0, 5301.0, 5556.0, 5694.0, 5595.0, 5328.0, 5432.0, 5598.0, 5280.0, 5446.0, 5502.0, 5562.0, 5368.0, 5300.0, 5641.0, 5423.0, 5707.0, 5495.0, 5540.0, 5421.0, 5408.0, 5546.0, 5411.0, 5538.0, 5469.0, 5288.0, 5711.0, 5637.0, 5309.0, 5689.0, 5560.0, 5586.0, 5335.0, 5360.0, 5427.0, 5480.0, 5666.0, 5483.0, 5609.0, 5394.0, 5466.0, 5631.0, 5697.0, 5492.0, 5481.0, 5684.0, 5652.0, 5354.0, 5419.0, 5336.0, 5430.0, 5266.0, 5606.0, 5520.0, 5444.0, 5397.0, 5404.0, 5716.0, 5422.0, 5599.0, 5358.0, 5263.0, 5617.0, 5643.0, 5410.0, 5366.0, 5574.0, 5425.0, 5648.0, 5668.0, 5564.0, 5326.0, 5705.0, 5375.0, 5624.0, 5508.0, 5588.0, 5387.0, 5610.0, 5507.0, 5577.0, 5526.0, 5463.0, 5265.0, 5317.0, 5485.0, 5363.0, 5414.0, 5269.0, 5461.0, 5307.0, 5405.0, 5519.0, 5710.0, 5615.0, 5284.0, 5450.0, 5482.0, 5530.0, 5527.0 (number of hits: 5)
3	5550	9	1	333	1	5443.0, 5478.0, 5650.0, 5428.0, 5429.0, 5446.0, 5666.0, 5659.0, 5419.0, 5601.0, 5424.0, 5707.0, 5287.0, 5708.0, 5254.0, 5619.0, 5413.0, 5402.0, 5568.0, 5547.0, 5527.0, 5322.0, 5398.0, 5542.0, 5360.0, 5529.0, 5571.0, 5431.0, 5546.0, 5308.0, 5592.0, 5560.0, 5318.0, 5680.0, 5325.0, 5599.0, 5668.0, 5606.0, 5703.0, 5253.0,

						5565.0, 5415.0, 5536.0, 5414.0, 5482.0, 5441.0, 5459.0, 5677.0, 5620.0, 5621.0, 5562.0, 5670.0, 5509.0, 5468.0, 5309.0, 5514.0, 5613.0, 5320.0, 5296.0, 5511.0, 5252.0, 5479.0, 5498.0, 5588.0, 5494.0, 5434.0, 5488.0, 5279.0, 5608.0, 5390.0, 5394.0, 5455.0, 5652.0, 5400.0, 5584.0, 5678.0, 5695.0, 5704.0, 5574.0, 5638.0, 5456.0, 5717.0, 5280.0, 5278.0, 5475.0, 5391.0, 5627.0, 5586.0, 5251.0, 5576.0, 5554.0, 5272.0, 5486.0, 5405.0, 5578.0, 5420.0, 5427.0, 5451.0, 5709.0, 5540.0 (number of hits: 4)
4	5550	9	1	333	1	5657.0, 5422.0, 5707.0, 5659.0, 5629.0, 5508.0, 5653.0, 5379.0, 5599.0, 5313.0, 5471.0, 5486.0, 5382.0, 5613.0, 5515.0, 5292.0, 5543.0, 5662.0, 5564.0, 5349.0, 5583.0, 5391.0, 5576.0, 5368.0, 5615.0, 5386.0, 5296.0, 5674.0, 5466.0, 5558.0, 5460.0, 5673.0, 5484.0, 5501.0, 5446.0, 5346.0, 5479.0, 5476.0, 5537.0, 5496.0, 5357.0, 5323.0, 5469.0, 5385.0, 5507.0, 5524.0, 5308.0, 5303.0, 5277.0, 5272.0, 5637.0, 5299.0, 5396.0, 5593.0, 5689.0, 5578.0, 5622.0, 5453.0, 5280.0, 5702.0, 5334.0, 5337.0, 5630.0, 5602.0, 5429.0, 5645.0, 5560.0, 5373.0, 5255.0, 5601.0, 5473.0, 5298.0, 5295.0, 5655.0, 5649.0, 5459.0, 5548.0, 5580.0, 5539.0, 5541.0, 5451.0, 5520.0, 5518.0, 5719.0, 5624.0, 5489.0, 5425.0, 5511.0, 5582.0, 5389.0, 5664.0, 5538.0, 5598.0, 5402.0, 5577.0, 5498.0, 5531.0, 5358.0, 5688.0, 5438.0 (number of hits: 8)
5	5550	9	1	333	1	5607.0, 5517.0, 5675.0, 5471.0, 5635.0, 5385.0, 5645.0, 5593.0, 5491.0, 5556.0, 5324.0, 5525.0, 5357.0, 5288.0, 5530.0, 5699.0, 5578.0, 5664.0, 5620.0, 5584.0, 5356.0, 5492.0, 5344.0, 5532.0, 5401.0, 5520.0, 5660.0, 5549.0, 5709.0, 5606.0, 5421.0, 5657.0, 5440.0, 5617.0, 5330.0, 5311.0, 5552.0, 5585.0, 5427.0, 5431.0, 5439.0, 5277.0, 5598.0, 5251.0, 5258.0, 5486.0, 5503.0, 5571.0, 5700.0, 5493.0, 5301.0, 5384.0, 5550.0, 5569.0, 5393.0, 5512.0, 5254.0, 5293.0, 5679.0, 5555.0, 5409.0, 5688.0, 5602.0, 5416.0, 5576.0, 5572.0, 5558.0, 5304.0, 5264.0, 5280.0, 5712.0, 5589.0, 5283.0, 5380.0, 5473.0, 5316.0, 5564.0, 5377.0, 5516.0, 5537.0, 5626.0, 5524.0, 5342.0, 5652.0, 5522.0, 5625.0, 5359.0, 5394.0, 5397.0, 5303.0, 5345.0, 5456.0, 5684.0, 5420.0, 5459.0, 5697.0, 5687.0, 5453.0, 5346.0, 5559.0 (number of hits: 6)

6	5550	9	1	333	1	5494.0, 5647.0, 5682.0, 5630.0, 5294.0, 5516.0, 5499.0, 5331.0, 5553.0, 5529.0, 5551.0, 5593.0, 5536.0, 5322.0, 5710.0, 5408.0, 5454.0, 5605.0, 5371.0, 5515.0, 5319.0, 5535.0, 5686.0, 5523.0, 5460.0, 5392.0, 5524.0, 5275.0, 5700.0, 5672.0, 5485.0, 5556.0, 5654.0, 5564.0, 5332.0, 5675.0, 5310.0, 5490.0, 5676.0, 5278.0, 5252.0, 5525.0, 5463.0, 5658.0, 5431.0, 5719.0, 5400.0, 5574.0, 5425.0, 5378.0, 5458.0, 5519.0, 5699.0, 5704.0, 5459.0, 5713.0, 5462.0, 5635.0, 5530.0, 5361.0, 5569.0, 5461.0, 5426.0, 5599.0, 5251.0, 5547.0, 5265.0, 5642.0, 5487.0, 5395.0, 5342.0, 5410.0, 5399.0, 5428.0, 5663.0, 5607.0, 5692.0, 5478.0, 5264.0, 5602.0, 5573.0, 5648.0, 5341.0, 5420.0, 5372.0, 5640.0, 5584.0, 5483.0, 5383.0, 5301.0, 5701.0, 5554.0, 5662.0, 5687.0, 5562.0, 5382.0, 5618.0, 5295.0, 5522.0, 5412.0 (number of hits: 4)
7	5550	9	1	333	1	5448.0, 5467.0, 5274.0, 5284.0, 5673.0, 5311.0, 5412.0, 5312.0, 5266.0, 5671.0, 5321.0, 5532.0, 5452.0, 5668.0, 5362.0, 5401.0, 5641.0, 5616.0, 5612.0, 5268.0, 5398.0, 5587.0, 5402.0, 5477.0, 5543.0, 5300.0, 5259.0, 5293.0, 5491.0, 5609.0, 5584.0, 5400.0, 5297.0, 5606.0, 5654.0, 5721.0, 5617.0, 5559.0, 5552.0, 5579.0, 5381.0, 5572.0, 5305.0, 5454.0, 5295.0, 5517.0, 5282.0, 5496.0, 5646.0, 5447.0, 5367.0, 5432.0, 5455.0, 5611.0, 5319.0, 5653.0, 5623.0, 5469.0, 5715.0, 5347.0, 5306.0, 5704.0, 5663.0, 5620.0, 5627.0, 5357.0, 5713.0, 5349.0, 5292.0, 5487.0, 5317.0, 5696.0, 5386.0, 5530.0, 5318.0, 5334.0, 5437.0, 5307.0, 5669.0, 5379.0, 5445.0, 5618.0, 5427.0, 5556.0, 5498.0, 5485.0, 5371.0, 5720.0, 5520.0, 5277.0, 5279.0, 5442.0, 5718.0, 5599.0, 5495.0, 5439.0, 5417.0, 5436.0, 5298.0, 5566.0 (number of hits: 11)
8	5550	9	1	333	1	5257.0, 5464.0, 5296.0, 5702.0, 5412.0, 5576.0, 5547.0, 5684.0, 5416.0, 5667.0, 5716.0, 5622.0, 5292.0, 5261.0, 5703.0, 5462.0, 5620.0, 5433.0, 5559.0, 5392.0, 5574.0, 5437.0, 5372.0, 5567.0, 5457.0, 5455.0, 5666.0, 5505.0, 5313.0, 5320.0, 5619.0, 5507.0, 5696.0, 5328.0, 5660.0, 5656.0, 5533.0, 5381.0, 5351.0, 5452.0, 5451.0, 5341.0, 5586.0, 5706.0, 5368.0, 5592.0, 5530.0, 5389.0, 5636.0, 5536.0, 5542.0, 5617.0, 5414.0, 5665.0, 5378.0, 5432.0, 5450.0, 5409.0, 5552.0, 5329.0, 5276.0, 5602.0, 5624.0, 5596.0, 5280.0,

						5496.0, 5358.0, 5590.0, 5676.0, 5618.0, 5404.0, 5440.0, 5718.0, 5423.0, 5657.0, 5435.0, 5492.0, 5640.0, 5524.0, 5308.0, 5295.0, 5695.0, 5692.0, 5384.0, 5399.0, 5321.0, 5532.0, 5405.0, 5272.0, 5566.0, 5436.0, 5686.0, 5693.0, 5428.0, 5675.0, 5697.0, 5631.0, 5597.0, 5707.0, 5623.0 (number of hits: 5)
9	5550	9	1	333	1	5268.0, 5638.0, 5647.0, 5290.0, 5364.0, 5609.0, 5517.0, 5722.0, 5550.0, 5682.0, 5605.0, 5697.0, 5703.0, 5536.0, 5556.0, 5453.0, 5271.0, 5280.0, 5469.0, 5301.0, 5563.0, 5640.0, 5630.0, 5610.0, 5590.0, 5471.0, 5509.0, 5602.0, 5543.0, 5711.0, 5258.0, 5478.0, 5466.0, 5431.0, 5355.0, 5565.0, 5403.0, 5520.0, 5261.0, 5497.0, 5636.0, 5480.0, 5325.0, 5344.0, 5604.0, 5473.0, 5547.0, 5710.0, 5646.0, 5350.0, 5428.0, 5489.0, 5670.0, 5442.0, 5708.0, 5377.0, 5365.0, 5284.0, 5389.0, 5379.0, 5621.0, 5276.0, 5528.0, 5614.0, 5436.0, 5356.0, 5503.0, 5695.0, 5445.0, 5458.0, 5495.0, 5334.0, 5310.0, 5329.0, 5349.0, 5343.0, 5300.0, 5709.0, 5629.0, 5564.0, 5652.0, 5675.0, 5491.0, 5378.0, 5450.0, 5554.0, 5589.0, 5513.0, 5315.0, 5422.0, 5444.0, 5658.0, 5719.0, 5597.0, 5669.0, 5427.0, 5383.0, 5506.0, 5331.0, 5376.0 (number of hits: 4)
10	5550	9	1	333	1	5550.0, 5621.0, 5385.0, 5397.0, 5711.0, 5294.0, 5383.0, 5488.0, 5327.0, 5556.0, 5428.0, 5343.0, 5572.0, 5595.0, 5592.0, 5432.0, 5496.0, 5350.0, 5361.0, 5401.0, 5537.0, 5576.0, 5583.0, 5266.0, 5255.0, 5681.0, 5687.0, 5521.0, 5352.0, 5458.0, 5714.0, 5325.0, 5683.0, 5348.0, 5436.0, 5303.0, 5719.0, 5252.0, 5558.0, 5676.0, 5643.0, 5470.0, 5259.0, 5339.0, 5332.0, 5539.0, 5418.0, 5373.0, 5534.0, 5710.0, 5574.0, 5450.0, 5454.0, 5665.0, 5466.0, 5557.0, 5483.0, 5265.0, 5404.0, 5284.0, 5256.0, 5593.0, 5469.0, 5659.0, 5271.0, 5501.0, 5627.0, 5701.0, 5289.0, 5715.0, 5567.0, 5564.0, 5582.0, 5568.0, 5344.0, 5337.0, 5536.0, 5274.0, 5548.0, 5695.0, 5408.0, 5351.0, 5329.0, 5346.0, 5377.0, 5579.0, 5523.0, 5660.0, 5696.0, 5381.0, 5402.0, 5699.0, 5569.0, 5689.0, 5451.0, 5314.0, 5554.0, 5375.0, 5502.0, 5658.0 (number of hits: 4)
11	5550	9	1	333	1	5692.0, 5327.0, 5254.0, 5664.0, 5408.0, 5574.0, 5399.0, 5455.0, 5417.0, 5722.0, 5421.0, 5398.0, 5431.0, 5369.0, 5620.0, 5530.0, 5713.0, 5591.0, 5616.0, 5354.0, 5487.0, 5410.0, 5451.0, 5500.0, 5260.0,

						5397.0, 5529.0, 5321.0, 5604.0, 5522.0, 5695.0, 5698.0, 5413.0, 5339.0, 5709.0, 5496.0, 5492.0, 5647.0, 5433.0, 5427.0, 5379.0, 5319.0, 5585.0, 5389.0, 5441.0, 5658.0, 5257.0, 5531.0, 5400.0, 5721.0, 5277.0, 5365.0, 5418.0, 5448.0, 5519.0, 5345.0, 5677.0, 5497.0, 5289.0, 5680.0, 5419.0, 5378.0, 5691.0, 5475.0, 5703.0, 5300.0, 5384.0, 5316.0, 5462.0, 5570.0, 5355.0, 5352.0, 5363.0, 5495.0, 5375.0, 5678.0, 5572.0, 5335.0, 5452.0, 5596.0, 5303.0, 5364.0, 5514.0, 5532.0, 5281.0, 5577.0, 5434.0, 5437.0, 5706.0, 5575.0, 5534.0, 5717.0, 5509.0, 5546.0, 5599.0, 5263.0, 5588.0, 5507.0, 5587.0, 5416.0 (number of hits: 3)
12	5550	9	1	333	1	5478.0, 5414.0, 5528.0, 5432.0, 5584.0, 5381.0, 5329.0, 5664.0, 5440.0, 5352.0, 5723.0, 5332.0, 5543.0, 5404.0, 5632.0, 5351.0, 5325.0, 5317.0, 5368.0, 5296.0, 5411.0, 5559.0, 5430.0, 5391.0, 5523.0, 5451.0, 5362.0, 5339.0, 5341.0, 5267.0, 5482.0, 5630.0, 5265.0, 5699.0, 5588.0, 5568.0, 5683.0, 5472.0, 5470.0, 5320.0, 5319.0, 5666.0, 5629.0, 5514.0, 5394.0, 5538.0, 5574.0, 5479.0, 5337.0, 5273.0, 5269.0, 5674.0, 5509.0, 5701.0, 5370.0, 5415.0, 5433.0, 5410.0, 5540.0, 5575.0, 5590.0, 5525.0, 5672.0, 5277.0, 5705.0, 5426.0, 5382.0, 5536.0, 5673.0, 5535.0, 5654.0, 5582.0, 5413.0, 5718.0, 5708.0, 5641.0, 5303.0, 5316.0, 5600.0, 5338.0, 5669.0, 5367.0, 5462.0, 5670.0, 5619.0, 5667.0, 5377.0, 5457.0, 5526.0, 5682.0, 5282.0, 5323.0, 5551.0, 5602.0, 5612.0, 5527.0, 5570.0, 5707.0, 5342.0, 5506.0 (number of hits: 2)
13	5550	9	1	333	1	5482.0, 5394.0, 5424.0, 5383.0, 5502.0, 5655.0, 5692.0, 5534.0, 5448.0, 5280.0, 5352.0, 5604.0, 5268.0, 5368.0, 5546.0, 5631.0, 5437.0, 5510.0, 5598.0, 5609.0, 5541.0, 5587.0, 5487.0, 5422.0, 5539.0, 5693.0, 5569.0, 5697.0, 5307.0, 5295.0, 5720.0, 5703.0, 5407.0, 5273.0, 5711.0, 5390.0, 5647.0, 5680.0, 5713.0, 5419.0, 5475.0, 5403.0, 5674.0, 5392.0, 5666.0, 5589.0, 5436.0, 5463.0, 5632.0, 5361.0, 5320.0, 5431.0, 5395.0, 5636.0, 5556.0, 5413.0, 5338.0, 5257.0, 5545.0, 5630.0, 5357.0, 5507.0, 5640.0, 5522.0, 5387.0, 5581.0, 5401.0, 5416.0, 5381.0, 5620.0, 5429.0, 5282.0, 5417.0, 5552.0, 5496.0, 5490.0, 5646.0, 5673.0, 5275.0, 5686.0, 5591.0, 5312.0, 5434.0, 5444.0, 5515.0, 5316.0, 5491.0, 5462.0, 5505.0, 5704.0,

						5642.0, 5573.0, 5367.0, 5277.0, 5679.0, 5500.0, 5258.0, 5579.0, 5259.0, 5702.0 (number of hits: 3)
14	5550	9	1	333	1	5617.0, 5666.0, 5534.0, 5334.0, 5307.0, 5680.0, 5549.0, 5471.0, 5654.0, 5338.0, 5461.0, 5490.0, 5545.0, 5289.0, 5285.0, 5327.0, 5606.0, 5491.0, 5401.0, 5626.0, 5451.0, 5348.0, 5602.0, 5585.0, 5418.0, 5278.0, 5689.0, 5652.0, 5282.0, 5559.0, 5291.0, 5713.0, 5722.0, 5419.0, 5495.0, 5263.0, 5450.0, 5250.0, 5465.0, 5659.0, 5489.0, 5435.0, 5346.0, 5630.0, 5698.0, 5701.0, 5292.0, 5299.0, 5399.0, 5281.0, 5464.0, 5554.0, 5561.0, 5593.0, 5488.0, 5581.0, 5416.0, 5380.0, 5699.0, 5277.0, 5381.0, 5353.0, 5309.0, 5409.0, 5642.0, 5608.0, 5584.0, 5563.0, 5600.0, 5569.0, 5632.0, 5568.0, 5460.0, 5271.0, 5572.0, 5519.0, 5544.0, 5577.0, 5639.0, 5427.0, 5445.0, 5678.0, 5320.0, 5517.0, 5437.0, 5651.0, 5256.0, 5590.0, 5707.0, 5702.0, 5311.0, 5598.0, 5315.0, 5270.0, 5703.0, 5676.0, 5518.0, 5694.0, 5284.0, 5426.0 (number of hits: 8)
15	5550	9	1	333	1	5590.0, 5628.0, 5492.0, 5343.0, 5413.0, 5332.0, 5301.0, 5310.0, 5448.0, 5570.0, 5496.0, 5340.0, 5390.0, 5503.0, 5533.0, 5502.0, 5351.0, 5405.0, 5273.0, 5586.0, 5703.0, 5525.0, 5296.0, 5609.0, 5721.0, 5253.0, 5370.0, 5409.0, 5387.0, 5647.0, 5337.0, 5524.0, 5354.0, 5429.0, 5601.0, 5442.0, 5426.0, 5702.0, 5346.0, 5639.0, 5645.0, 5425.0, 5333.0, 5485.0, 5498.0, 5511.0, 5486.0, 5415.0, 5288.0, 5549.0, 5404.0, 5381.0, 5326.0, 5263.0, 5681.0, 5583.0, 5575.0, 5449.0, 5341.0, 5522.0, 5281.0, 5654.0, 5716.0, 5660.0, 5278.0, 5604.0, 5513.0, 5380.0, 5467.0, 5587.0, 5433.0, 5362.0, 5675.0, 5283.0, 5391.0, 5557.0, 5361.0, 5266.0, 5377.0, 5330.0, 5542.0, 5518.0, 5302.0, 5637.0, 5618.0, 5414.0, 5665.0, 5344.0, 5376.0, 5265.0, 5420.0, 5625.0, 5538.0, 5491.0, 5444.0, 5408.0, 5700.0, 5701.0, 5431.0, 5562.0 (number of hits: 5)
16	5550	9	1	333	1	5544.0, 5340.0, 5261.0, 5682.0, 5253.0, 5396.0, 5301.0, 5388.0, 5356.0, 5714.0, 5445.0, 5459.0, 5480.0, 5669.0, 5407.0, 5320.0, 5336.0, 5309.0, 5268.0, 5280.0, 5293.0, 5337.0, 5363.0, 5591.0, 5279.0, 5400.0, 5674.0, 5627.0, 5583.0, 5418.0, 5310.0, 5617.0, 5497.0, 5409.0, 5428.0, 5596.0, 5451.0, 5681.0, 5581.0, 5588.0, 5403.0, 5542.0, 5379.0, 5643.0, 5316.0, 5687.0, 5491.0, 5300.0, 5500.0, 5267.0,

						5298.0, 5527.0, 5375.0, 5308.0, 5302.0, 5346.0, 5503.0, 5496.0, 5721.0, 5539.0, 5414.0, 5355.0, 5394.0, 5426.0, 5667.0, 5649.0, 5453.0, 5719.0, 5623.0, 5508.0, 5251.0, 5646.0, 5467.0, 5716.0, 5326.0, 5313.0, 5472.0, 5344.0, 5693.0, 5688.0, 5331.0, 5432.0, 5392.0, 5683.0, 5334.0, 5586.0, 5419.0, 5607.0, 5551.0, 5547.0, 5305.0, 5256.0, 5499.0, 5381.0, 5534.0, 5299.0, 5398.0, 5362.0, 5478.0, 5510.0 (number of hits: 11)
17	5550	9	1	333	1	5362.0, 5707.0, 5278.0, 5280.0, 5584.0, 5686.0, 5697.0, 5711.0, 5485.0, 5659.0, 5518.0, 5456.0, 5322.0, 5457.0, 5302.0, 5523.0, 5617.0, 5552.0, 5357.0, 5254.0, 5340.0, 5642.0, 5638.0, 5319.0, 5568.0, 5271.0, 5531.0, 5334.0, 5640.0, 5674.0, 5695.0, 5403.0, 5404.0, 5684.0, 5507.0, 5667.0, 5522.0, 5343.0, 5275.0, 5303.0, 5449.0, 5406.0, 5590.0, 5608.0, 5558.0, 5379.0, 5479.0, 5314.0, 5575.0, 5372.0, 5292.0, 5601.0, 5386.0, 5337.0, 5323.0, 5414.0, 5293.0, 5348.0, 5548.0, 5408.0, 5402.0, 5452.0, 5438.0, 5644.0, 5635.0, 5375.0, 5698.0, 5717.0, 5262.0, 5311.0, 5720.0, 5623.0, 5510.0, 5281.0, 5477.0, 5532.0, 5467.0, 5615.0, 5391.0, 5390.0, 5581.0, 5389.0, 5471.0, 5573.0, 5632.0, 5502.0, 5625.0, 5454.0, 5501.0, 5596.0, 5646.0, 5338.0, 5276.0, 5649.0, 5712.0, 5273.0, 5718.0, 5425.0, 5421.0, 5392.0 (number of hits: 6)
18	5550	9	1	333	1	5332.0, 5673.0, 5461.0, 5383.0, 5401.0, 5485.0, 5374.0, 5293.0, 5282.0, 5384.0, 5362.0, 5414.0, 5549.0, 5303.0, 5531.0, 5571.0, 5501.0, 5714.0, 5451.0, 5484.0, 5488.0, 5617.0, 5582.0, 5458.0, 5437.0, 5545.0, 5450.0, 5638.0, 5702.0, 5610.0, 5540.0, 5498.0, 5658.0, 5459.0, 5385.0, 5445.0, 5623.0, 5304.0, 5472.0, 5294.0, 5616.0, 5611.0, 5587.0, 5378.0, 5698.0, 5432.0, 5478.0, 5322.0, 5354.0, 5422.0, 5415.0, 5405.0, 5629.0, 5663.0, 5300.0, 5360.0, 5585.0, 5491.0, 5416.0, 5600.0, 5371.0, 5613.0, 5403.0, 5606.0, 5430.0, 5320.0, 5666.0, 5577.0, 5588.0, 5653.0, 5291.0, 5289.0, 5631.0, 5266.0, 5504.0, 5627.0, 5533.0, 5548.0, 5626.0, 5489.0, 5537.0, 5648.0, 5696.0, 5704.0, 5287.0, 5307.0, 5423.0, 5292.0, 5402.0, 5519.0, 5721.0, 5625.0, 5505.0, 5261.0, 5264.0, 5525.0, 5465.0, 5628.0, 5576.0, 5553.0 (number of hits: 10)
19	5550	9	1	333	1	5672.0, 5568.0, 5378.0, 5720.0, 5714.0, 5304.0, 5636.0, 5664.0, 5396.0, 5517.0,

						5420.0, 5689.0, 5282.0, 5264.0, 5356.0, 5553.0, 5416.0, 5258.0, 5544.0, 5447.0, 5576.0, 5546.0, 5596.0, 5651.0, 5675.0, 5494.0, 5404.0, 5549.0, 5390.0, 5640.0, 5285.0, 5597.0, 5581.0, 5583.0, 5556.0, 5702.0, 5373.0, 5449.0, 5439.0, 5336.0, 5617.0, 5683.0, 5713.0, 5255.0, 5296.0, 5453.0, 5290.0, 5292.0, 5395.0, 5699.0, 5605.0, 5560.0, 5490.0, 5633.0, 5663.0, 5359.0, 5644.0, 5506.0, 5419.0, 5670.0, 5531.0, 5464.0, 5657.0, 5466.0, 5305.0, 5452.0, 5586.0, 5516.0, 5315.0, 5635.0, 5374.0, 5412.0, 5706.0, 5540.0, 5462.0, 5502.0, 5529.0, 5284.0, 5520.0, 5346.0, 5641.0, 5673.0, 5712.0, 5429.0, 5492.0, 5598.0, 5652.0, 5417.0, 5281.0, 5616.0, 5382.0, 5637.0, 5371.0, 5486.0, 5323.0, 5653.0, 5716.0, 5388.0, 5524.0, 5667.0 (number of hits: 6)
20	5550	9	1	333	1	5706.0, 5474.0, 5595.0, 5459.0, 5538.0, 5368.0, 5523.0, 5420.0, 5555.0, 5673.0, 5568.0, 5326.0, 5363.0, 5327.0, 5697.0, 5408.0, 5645.0, 5714.0, 5480.0, 5421.0, 5647.0, 5582.0, 5463.0, 5450.0, 5537.0, 5263.0, 5284.0, 5520.0, 5342.0, 5619.0, 5495.0, 5447.0, 5360.0, 5427.0, 5424.0, 5712.0, 5644.0, 5563.0, 5461.0, 5589.0, 5671.0, 5574.0, 5707.0, 5365.0, 5481.0, 5554.0, 5601.0, 5719.0, 5335.0, 5496.0, 5676.0, 5664.0, 5331.0, 5704.0, 5715.0, 5593.0, 5652.0, 5508.0, 5333.0, 5457.0, 5371.0, 5272.0, 5476.0, 5467.0, 5311.0, 5634.0, 5258.0, 5347.0, 5530.0, 5332.0, 5334.0, 5343.0, 5540.0, 5441.0, 5641.0, 5280.0, 5548.0, 5605.0, 5609.0, 5612.0, 5620.0, 5400.0, 5494.0, 5583.0, 5703.0, 5269.0, 5260.0, 5602.0, 5566.0, 5392.0, 5581.0, 5514.0, 5662.0, 5456.0, 5628.0, 5710.0, 5390.0, 5533.0, 5718.0, 5653.0 (number of hits: 1)
21	5550	9	1	333	1	5288.0, 5480.0, 5503.0, 5456.0, 5654.0, 5684.0, 5561.0, 5337.0, 5526.0, 5291.0, 5270.0, 5375.0, 5453.0, 5507.0, 5646.0, 5621.0, 5593.0, 5544.0, 5256.0, 5669.0, 5695.0, 5319.0, 5479.0, 5464.0, 5711.0, 5723.0, 5332.0, 5446.0, 5286.0, 5476.0, 5521.0, 5395.0, 5330.0, 5667.0, 5424.0, 5304.0, 5276.0, 5501.0, 5386.0, 5260.0, 5272.0, 5378.0, 5551.0, 5275.0, 5268.0, 5545.0, 5449.0, 5682.0, 5347.0, 5678.0, 5517.0, 5305.0, 5470.0, 5628.0, 5460.0, 5413.0, 5687.0, 5588.0, 5703.0, 5566.0, 5285.0, 5594.0, 5336.0, 5428.0, 5250.0, 5253.0, 5307.0, 5562.0, 5293.0, 5542.0, 5692.0, 5325.0, 5339.0, 5394.0, 5371.0,

						5634.0, 5326.0, 5301.0, 5641.0, 5377.0, 5369.0, 5615.0, 5298.0, 5567.0, 5586.0, 5576.0, 5416.0, 5311.0, 5652.0, 5629.0, 5608.0, 5342.0, 5706.0, 5716.0, 5467.0, 5418.0, 5280.0, 5308.0, 5689.0, 5600.0 (number of hits: 12)
22	5550	9	1	333	1	5655.0, 5673.0, 5395.0, 5492.0, 5665.0, 5491.0, 5572.0, 5590.0, 5336.0, 5718.0, 5671.0, 5474.0, 5425.0, 5317.0, 5696.0, 5493.0, 5414.0, 5318.0, 5576.0, 5363.0, 5435.0, 5691.0, 5447.0, 5297.0, 5556.0, 5483.0, 5498.0, 5311.0, 5697.0, 5546.0, 5554.0, 5501.0, 5628.0, 5403.0, 5480.0, 5557.0, 5641.0, 5337.0, 5525.0, 5488.0, 5581.0, 5587.0, 5721.0, 5350.0, 5296.0, 5677.0, 5310.0, 5594.0, 5331.0, 5370.0, 5472.0, 5713.0, 5373.0, 5339.0, 5623.0, 5380.0, 5512.0, 5509.0, 5484.0, 5252.0, 5321.0, 5334.0, 5288.0, 5585.0, 5364.0, 5446.0, 5258.0, 5535.0, 5375.0, 5299.0, 5565.0, 5676.0, 5692.0, 5402.0, 5643.0, 5289.0, 5596.0, 5486.0, 5358.0, 5253.0, 5295.0, 5462.0, 5407.0, 5445.0, 5342.0, 5637.0, 5600.0, 5519.0, 5328.0, 5323.0, 5272.0, 5451.0, 5593.0, 5635.0, 5706.0, 5526.0, 5678.0, 5675.0, 5394.0, 5686.0 (number of hits: 8)
23	5550	9	1	333	1	5335.0, 5614.0, 5487.0, 5562.0, 5348.0, 5267.0, 5385.0, 5611.0, 5694.0, 5437.0, 5563.0, 5633.0, 5708.0, 5355.0, 5541.0, 5649.0, 5721.0, 5510.0, 5444.0, 5615.0, 5558.0, 5661.0, 5438.0, 5400.0, 5383.0, 5450.0, 5258.0, 5551.0, 5349.0, 5462.0, 5632.0, 5307.0, 5709.0, 5504.0, 5340.0, 5275.0, 5557.0, 5624.0, 5592.0, 5461.0, 5520.0, 5683.0, 5668.0, 5507.0, 5523.0, 5430.0, 5548.0, 5501.0, 5393.0, 5452.0, 5626.0, 5589.0, 5493.0, 5259.0, 5429.0, 5657.0, 5369.0, 5366.0, 5610.0, 5577.0, 5638.0, 5431.0, 5534.0, 5253.0, 5489.0, 5292.0, 5587.0, 5656.0, 5714.0, 5645.0, 5414.0, 5509.0, 5386.0, 5702.0, 5584.0, 5295.0, 5706.0, 5492.0, 5505.0, 5447.0, 5321.0, 5547.0, 5286.0, 5269.0, 5567.0, 5468.0, 5298.0, 5565.0, 5302.0, 5718.0, 5370.0, 5443.0, 5436.0, 5660.0, 5296.0, 5268.0, 5363.0, 5641.0, 5512.0, 5333.0 (number of hits: 7)
24	5550	9	1	333	1	5332.0, 5426.0, 5407.0, 5551.0, 5620.0, 5455.0, 5703.0, 5463.0, 5710.0, 5504.0, 5584.0, 5538.0, 5574.0, 5320.0, 5622.0, 5441.0, 5280.0, 5361.0, 5315.0, 5354.0, 5612.0, 5440.0, 5366.0, 5465.0, 5406.0, 5655.0, 5452.0, 5276.0, 5495.0, 5304.0, 5324.0, 5511.0, 5362.0, 5319.0, 5692.0,

						5616.0, 5712.0, 5399.0, 5423.0, 5377.0, 5444.0, 5536.0, 5592.0, 5505.0, 5526.0, 5697.0, 5462.0, 5353.0, 5303.0, 5417.0, 5263.0, 5668.0, 5539.0, 5434.0, 5410.0, 5275.0, 5267.0, 5685.0, 5696.0, 5476.0, 5337.0, 5296.0, 5281.0, 5561.0, 5670.0, 5630.0, 5422.0, 5524.0, 5289.0, 5457.0, 5418.0, 5644.0, 5449.0, 5313.0, 5515.0, 5488.0, 5531.0, 5350.0, 5256.0, 5613.0, 5402.0, 5525.0, 5424.0, 5420.0, 5436.0, 5257.0, 5306.0, 5667.0, 5721.0, 5380.0, 5411.0, 5391.0, 5486.0, 5349.0, 5528.0, 5704.0, 5640.0, 5485.0, 5429.0, 5318.0 (number of hits: 6)
25	5550	9	1	333	1	5300.0, 5549.0, 5388.0, 5287.0, 5717.0, 5499.0, 5413.0, 5340.0, 5653.0, 5687.0, 5320.0, 5703.0, 5672.0, 5370.0, 5385.0, 5655.0, 5279.0, 5605.0, 5323.0, 5661.0, 5674.0, 5507.0, 5415.0, 5504.0, 5663.0, 5551.0, 5484.0, 5331.0, 5277.0, 5319.0, 5478.0, 5550.0, 5391.0, 5547.0, 5267.0, 5387.0, 5545.0, 5412.0, 5722.0, 5613.0, 5418.0, 5433.0, 5707.0, 5611.0, 5376.0, 5429.0, 5421.0, 5262.0, 5635.0, 5335.0, 5390.0, 5345.0, 5628.0, 5609.0, 5649.0, 5490.0, 5384.0, 5718.0, 5623.0, 5275.0, 5435.0, 5651.0, 5491.0, 5408.0, 5652.0, 5427.0, 5475.0, 5396.0, 5462.0, 5589.0, 5308.0, 5627.0, 5530.0, 5692.0, 5626.0, 5603.0, 5316.0, 5353.0, 5602.0, 5439.0, 5656.0, 5676.0, 5440.0, 5578.0, 5601.0, 5619.0, 5552.0, 5252.0, 5346.0, 5689.0, 5477.0, 5650.0, 5364.0, 5307.0, 5570.0, 5556.0, 5670.0, 5592.0, 5598.0, 5638.0 (number of hits: 4)
26	5550	9	1	333	1	5591.0, 5384.0, 5639.0, 5584.0, 5688.0, 5356.0, 5479.0, 5577.0, 5273.0, 5482.0, 5278.0, 5650.0, 5633.0, 5505.0, 5641.0, 5279.0, 5586.0, 5632.0, 5548.0, 5662.0, 5425.0, 5261.0, 5637.0, 5362.0, 5694.0, 5592.0, 5556.0, 5390.0, 5506.0, 5690.0, 5686.0, 5550.0, 5524.0, 5486.0, 5568.0, 5680.0, 5515.0, 5385.0, 5646.0, 5522.0, 5520.0, 5368.0, 5460.0, 5640.0, 5355.0, 5614.0, 5463.0, 5459.0, 5324.0, 5476.0, 5571.0, 5588.0, 5536.0, 5606.0, 5418.0, 5339.0, 5284.0, 5509.0, 5358.0, 5546.0, 5403.0, 5572.0, 5655.0, 5411.0, 5645.0, 5658.0, 5369.0, 5456.0, 5514.0, 5498.0, 5561.0, 5579.0, 5555.0, 5497.0, 5322.0, 5437.0, 5319.0, 5635.0, 5489.0, 5704.0, 5381.0, 5304.0, 5481.0, 5699.0, 5517.0, 5454.0, 5563.0, 5433.0, 5439.0, 5373.0, 5375.0, 5387.0, 5307.0, 5525.0, 5340.0, 5529.0, 5511.0, 5357.0, 5500.0, 5282.0

						(number of hits: 2)
27	5550	9	1	333	1	5403.0, 5521.0, 5280.0, 5512.0, 5574.0, 5526.0, 5687.0, 5713.0, 5438.0, 5317.0, 5467.0, 5309.0, 5274.0, 5497.0, 5389.0, 5510.0, 5535.0, 5344.0, 5551.0, 5514.0, 5324.0, 5315.0, 5611.0, 5627.0, 5411.0, 5452.0, 5649.0, 5484.0, 5456.0, 5333.0, 5660.0, 5718.0, 5619.0, 5455.0, 5488.0, 5361.0, 5533.0, 5635.0, 5396.0, 5259.0, 5289.0, 5260.0, 5468.0, 5406.0, 5493.0, 5513.0, 5708.0, 5603.0, 5372.0, 5690.0, 5559.0, 5543.0, 5530.0, 5301.0, 5634.0, 5365.0, 5336.0, 5272.0, 5313.0, 5621.0, 5573.0, 5669.0, 5486.0, 5387.0, 5402.0, 5567.0, 5475.0, 5600.0, 5631.0, 5393.0, 5364.0, 5321.0, 5379.0, 5451.0, 5616.0, 5476.0, 5566.0, 5538.0, 5684.0, 5351.0, 5460.0, 5524.0, 5275.0, 5332.0, 5416.0, 5504.0, 5546.0, 5651.0, 5276.0, 5532.0, 5581.0, 5657.0, 5298.0, 5602.0, 5515.0, 5516.0, 5517.0, 5584.0, 5719.0, 5696.0 (number of hits: 5)
28	5550	9	1	333	1	5707.0, 5417.0, 5722.0, 5701.0, 5448.0, 5667.0, 5578.0, 5650.0, 5439.0, 5562.0, 5663.0, 5348.0, 5366.0, 5664.0, 5519.0, 5717.0, 5642.0, 5563.0, 5652.0, 5591.0, 5385.0, 5678.0, 5484.0, 5584.0, 5508.0, 5252.0, 5668.0, 5419.0, 5565.0, 5608.0, 5317.0, 5306.0, 5460.0, 5595.0, 5407.0, 5303.0, 5666.0, 5488.0, 5468.0, 5449.0, 5610.0, 5673.0, 5355.0, 5474.0, 5692.0, 5433.0, 5514.0, 5311.0, 5691.0, 5641.0, 5583.0, 5648.0, 5422.0, 5660.0, 5352.0, 5467.0, 5517.0, 5362.0, 5478.0, 5527.0, 5677.0, 5721.0, 5680.0, 5253.0, 5310.0, 5683.0, 5620.0, 5438.0, 5512.0, 5698.0, 5401.0, 5270.0, 5254.0, 5471.0, 5470.0, 5344.0, 5661.0, 5428.0, 5395.0, 5647.0, 5440.0, 5532.0, 5296.0, 5396.0, 5457.0, 5496.0, 5672.0, 5437.0, 5589.0, 5657.0, 5576.0, 5654.0, 5568.0, 5501.0, 5259.0, 5675.0, 5574.0, 5581.0, 5472.0, 5687.0 (number of hits: 5)
29	5550	9	1	333	1	5573.0, 5266.0, 5649.0, 5645.0, 5480.0, 5421.0, 5298.0, 5264.0, 5622.0, 5395.0, 5524.0, 5257.0, 5610.0, 5615.0, 5428.0, 5436.0, 5566.0, 5404.0, 5468.0, 5338.0, 5604.0, 5718.0, 5334.0, 5514.0, 5303.0, 5708.0, 5473.0, 5461.0, 5692.0, 5644.0, 5344.0, 5570.0, 5641.0, 5313.0, 5513.0, 5711.0, 5592.0, 5665.0, 5689.0, 5520.0, 5316.0, 5534.0, 5617.0, 5724.0, 5499.0, 5683.0, 5713.0, 5621.0, 5658.0, 5637.0, 5255.0, 5627.0, 5690.0, 5372.0, 5445.0, 5340.0, 5336.0, 5672.0, 5411.0, 5531.0,

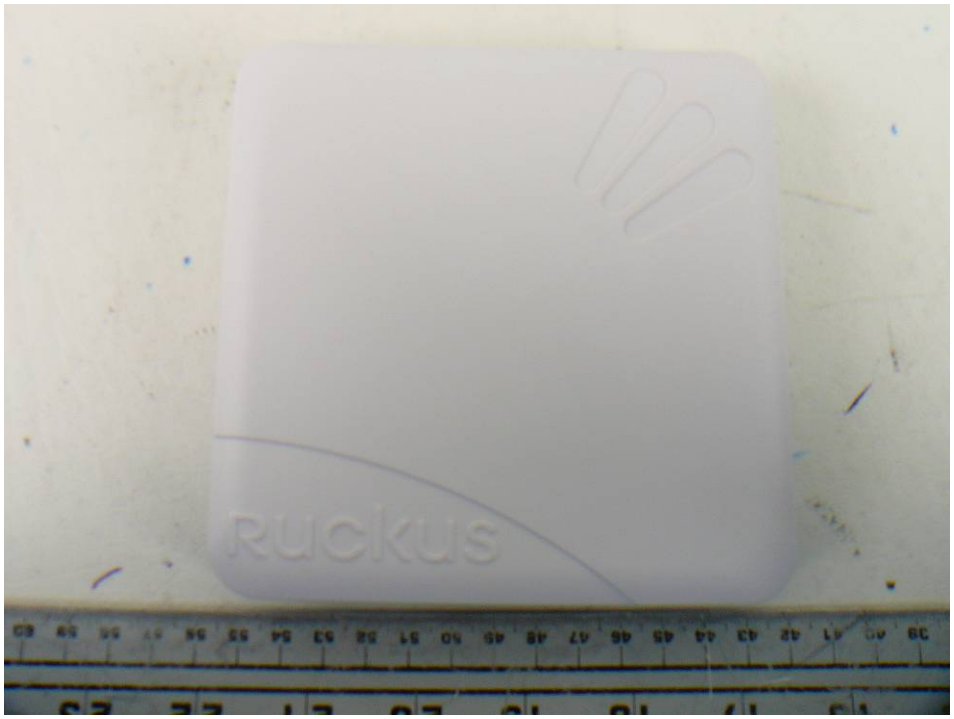
						5654.0, 5616.0, 5348.0, 5702.0, 5571.0, 5555.0, 5279.0, 5598.0, 5557.0, 5652.0, 5389.0, 5538.0, 5532.0, 5582.0, 5705.0, 5715.0, 5289.0, 5286.0, 5630.0, 5453.0, 5364.0, 5277.0, 5426.0, 5659.0, 5384.0, 5265.0, 5487.0, 5632.0, 5585.0, 5280.0, 5507.0, 5668.0, 5254.0, 5268.0, 5378.0, 5382.0, 5368.0, 5297.0, 5270.0, 5502.0 (number of hits: 6)
30	5550	9	1	333	1	5671.0, 5380.0, 5632.0, 5523.0, 5438.0, 5592.0, 5327.0, 5707.0, 5289.0, 5546.0, 5375.0, 5364.0, 5683.0, 5443.0, 5416.0, 5363.0, 5284.0, 5567.0, 5652.0, 5702.0, 5708.0, 5693.0, 5667.0, 5480.0, 5377.0, 5345.0, 5300.0, 5639.0, 5515.0, 5459.0, 5656.0, 5253.0, 5259.0, 5591.0, 5341.0, 5467.0, 5423.0, 5456.0, 5560.0, 5608.0, 5587.0, 5444.0, 5722.0, 5676.0, 5637.0, 5280.0, 5463.0, 5260.0, 5630.0, 5412.0, 5626.0, 5636.0, 5686.0, 5267.0, 5502.0, 5455.0, 5660.0, 5521.0, 5378.0, 5718.0, 5343.0, 5563.0, 5553.0, 5638.0, 5388.0, 5488.0, 5298.0, 5691.0, 5642.0, 5664.0, 5701.0, 5596.0, 5649.0, 5250.0, 5543.0, 5257.0, 5544.0, 5282.0, 5511.0, 5669.0, 5426.0, 5643.0, 5347.0, 5628.0, 5507.0, 5673.0, 5603.0, 5382.0, 5460.0, 5716.0, 5715.0, 5316.0, 5585.0, 5451.0, 5674.0, 5262.0, 5582.0, 5270.0, 5350.0, 5315.0 (number of hits: 3)

10 APPENDIX A - TEST SETUP PHOTOGRAPHS

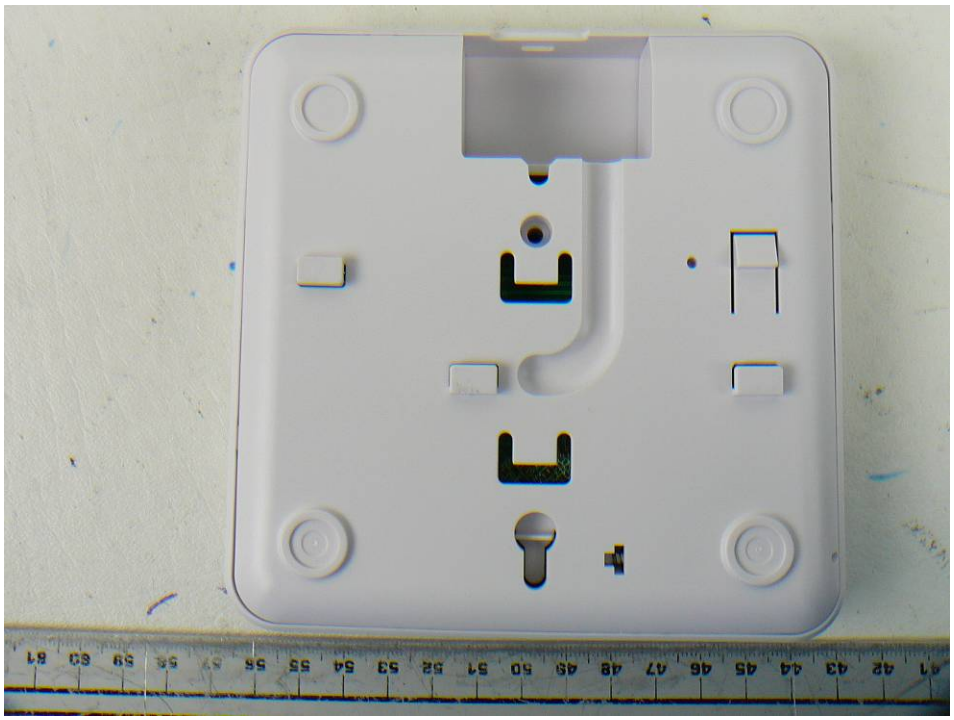
10.1 Setup View

11 APPENDIX B - EUT PHOTOGRAPHS

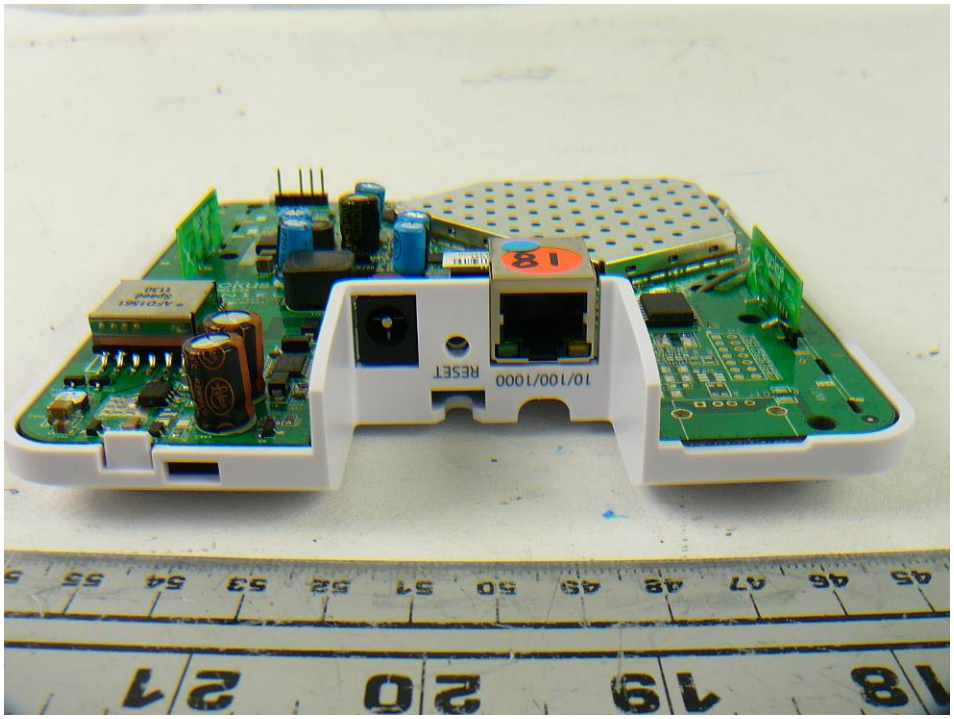
11.1 EUT Top View



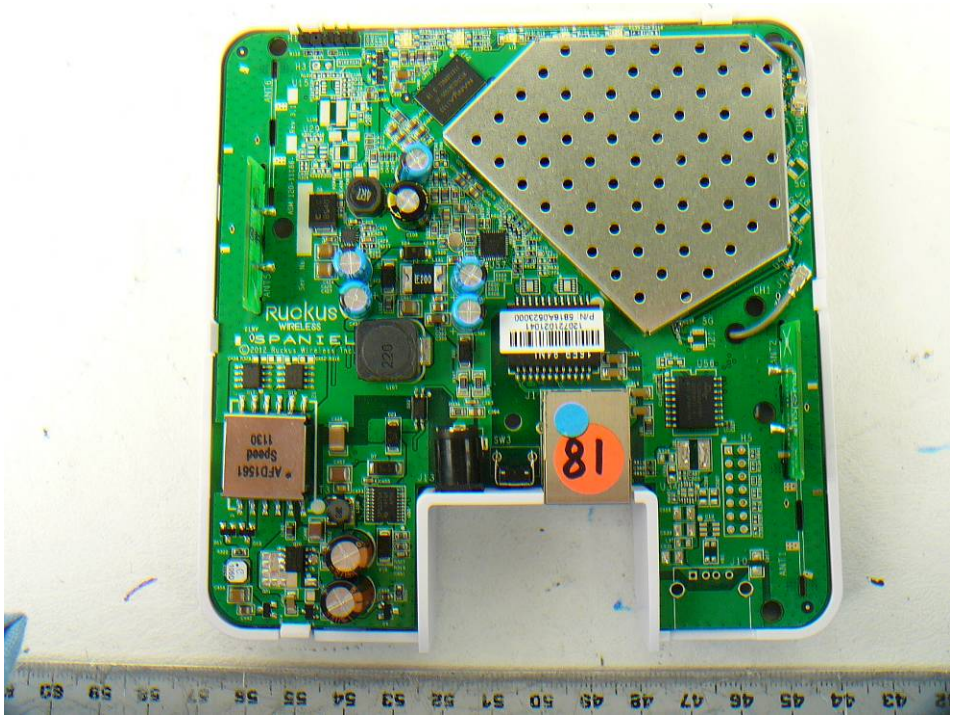
11.2 EUT Bottom View



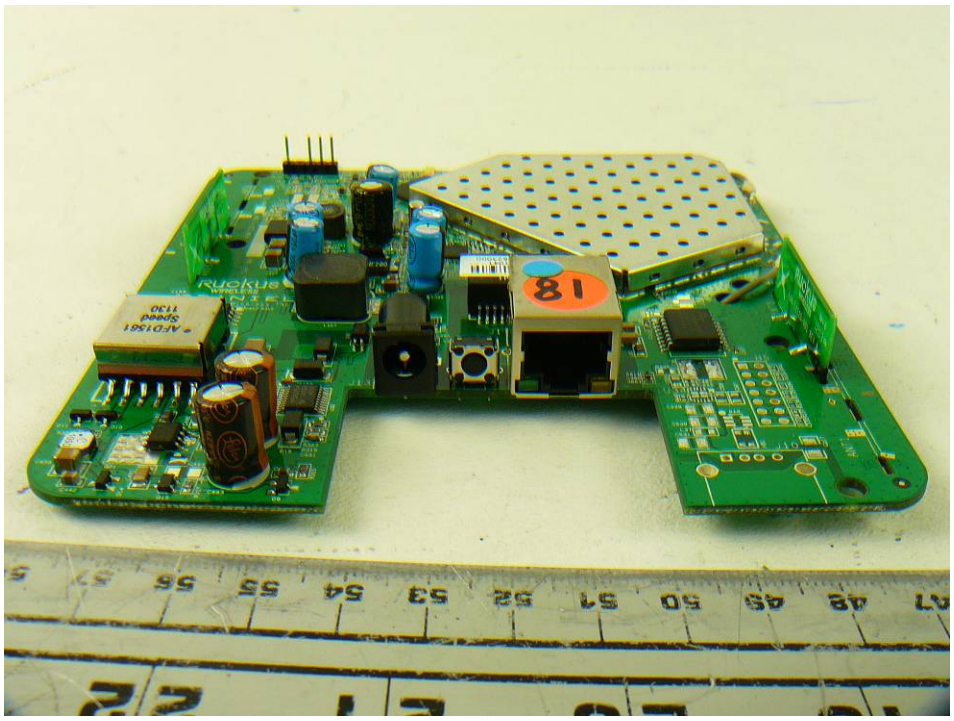
11.3 EUT Side View



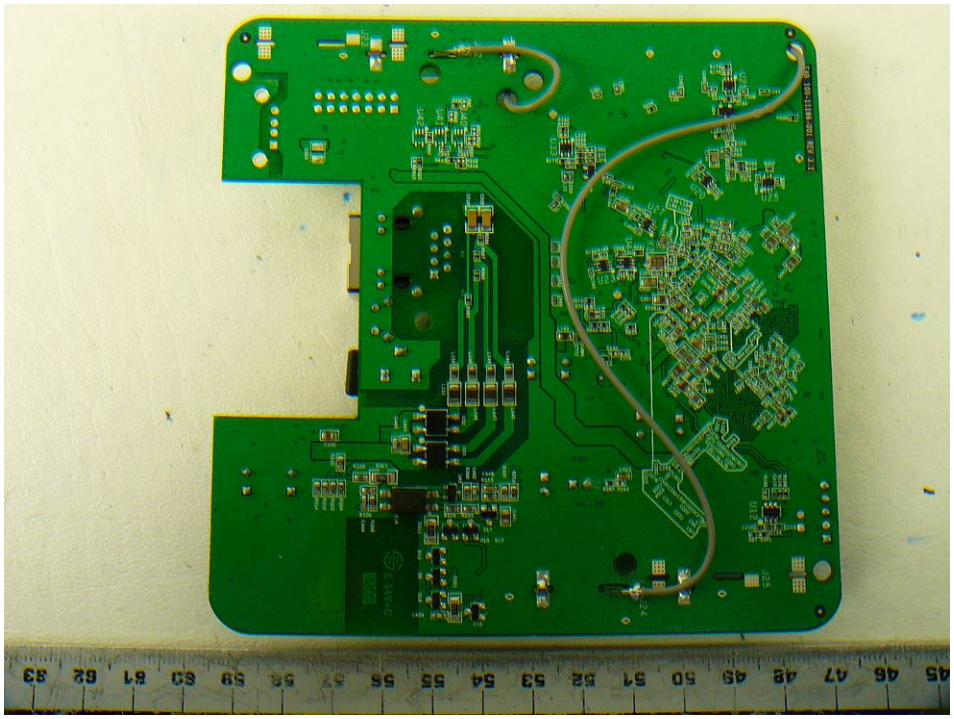
11.4 EUT Open Chassis



11.5 Mother Board Top View



11.6 Mother Board Bottom View



11.7 EUT - Adapter View

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