FCC PART 15.407
DYNAMIC FREQUENCY SELECTION
TEST AND MEASUREMENT REPORT

For

Ruckus Wireless, Inc.

350 West Java Drive,

Sunnyvale, CA 94089, USA

FCC ID: S9GZF7761CM

Report Type:	**Product Type:**
Class II Permissive Change	Dual-Band 802.11a/b/g/n Industrial Access Point

Prepared By:	Jin Yang
Report Number:	R1504014-DFS Rev A
Report Date:	2015-12-30
Reviewed By:	Bo Li RF Supervisor

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	R1504014-DFS	CIIPC Report	2015-11-18
1	R1504014-DFS Rev A	Update Test Data	2015-12-30

1 General Description

1.1 Product Description for Equipment under Test (EUT)

This test and measurement report has been compiled on behalf of *Ruckus Wireless, Inc.* and their product, *FCC ID: S9GZF7761CM*, model number: *ZF7761CM*, which henceforth is referred to as the EUT (Equipment Under Test.) The EUT is an 802.11a/b/g/n wireless AP

1.2 Mechanical Description of EUT

The EUT measures approximately 20 cm (W) x 27 cm (L) 19 cm (H), weighs approximately 4.45 kg.

The data gathered are from a typical production sample provided by the manufacturer with serial number: R1504014-1, assigned by BACL.

1.3 Objective

This report is prepared on behalf of *Ruckus Wireless, Inc*. in accordance with FCC CFR47 §15.407 (h), and KDB: 905462 D02 UNII DFS Compliance Procedures New Rules v01r02

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

1.4 Related Submittal(s)/Grant(s)

None

1.5 Test Methodology

FCC CFR 47 Part2, Part15.407 (h)

KDB: 905462 D02 UNII DFS Compliance Procedures New Rules v01r02

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

1.6 Test Facility

Bay Area Compliance Laboratories Corp. (BACL) is:

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

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

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

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

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

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

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

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

http://www.a2la.org/scopepdf/3297-02.pdf?CFID=1132286&CFTOKEN=e42a3240dac3f6ba-6DE17DCB-1851-9E57-477422F667031258&jsessionid=8430d44f1f47cf2996124343c704b367816b

2 EUT Test Configuration

2.1 Justification

The EUT was configured for testing according to FCC Part 15.407(H), and KDB: 905462 D02 UNII DFS Compliance Procedures New Rules v01r02

2.2 EUT Exercise Software

The test utility used version was 9.6.0 was provided by Ruckus Wireless Inc., and was verified by Bo Li to comply with the standard requirements being tested against.

2.3 Equipment Modifications

N/A

2.4 Local Support Equipment

Manufacturer	Description	Model	Serial Number
Dell	Laptop	Latitude E5420	CHZCMQ1

2.5 EUT Internal Configuration Details

Manufacturer	Description	Model
Ruckues Wireless, Inc	Main Board	Giterdone 10

2.6 Interface Ports and Cables

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

3 Summary of Test Results

The following result table represents the list of measurements required under the CFR47 §47 Part15.407 (h), and KDB: 905462 D02 UNII DFS Compliance Procedures New Rules v01r02. This report is to update from KDB: 905462 D02 UNII DFS Compliance Procedures Old rules v01 to KDB: 905462 D02 UNII DFS Compliance Procedures New Rules v01r02

Items	Description of Test	Results
Detection Bandwidth	UNII Detection Bandwidth	Compliant
Performance Requirements Check	Initial Channel Availability Check Time (CAC)	Compliant[1]
	Radar Burst at the Beginning of the CAC	Compliant[1]
	Radar Burst at the End of the CAC	Compliant[1]
In-Service Monitoring	Channel Move Time	Compliant[1]
	Channel Closing Transmission Time	Compliant[1]
	Non-Occupancy Period	Compliant[1]
Radar Detection	Statistical Performance Check	Compliant

Note[1]: Share data with original application report results. (FCC ID: S9GZF7761CM)

4 Applicable Standards

4.1 DFS Requirement

FCC CFR47 §15.407 (h), and KDB: 905462 D02 UNII DFS Compliance Procedures New Rules v01r02

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

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

Table 2: Applicability of DFS requirements during normal operation

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

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

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

Maximum Transmit Power	Value (See Notes 1, 2 and 3)
EIRP≥ 200 milliwatt	-64 dBm
EIRP< 200 milliwatt and power spectral density < 10dBm/MHz	-62 dBm
EIRP< 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. **Note 2:** Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. **Note3**: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911D01.	

Table 4: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the UNII 99% transmission power bandwidth. See Note 3.
Note 1: *Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.* **Note 2:** The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions. **Note 3:** During the *U-NII Detection Bandwidth* detection test, radar type 0 is used and for each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.	

Table 5: Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (Microseconds)	PRI (Microseconds)	Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	$\text{Roundup}\left\{\left(\frac{1}{360}\right)\cdot\left(\frac{19\cdot 10^6}{\text{PRI}_{\mu\text{sec}}}\right)\right\}$	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120

Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.

Table 6: Long Pulse Radar Test Signal

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

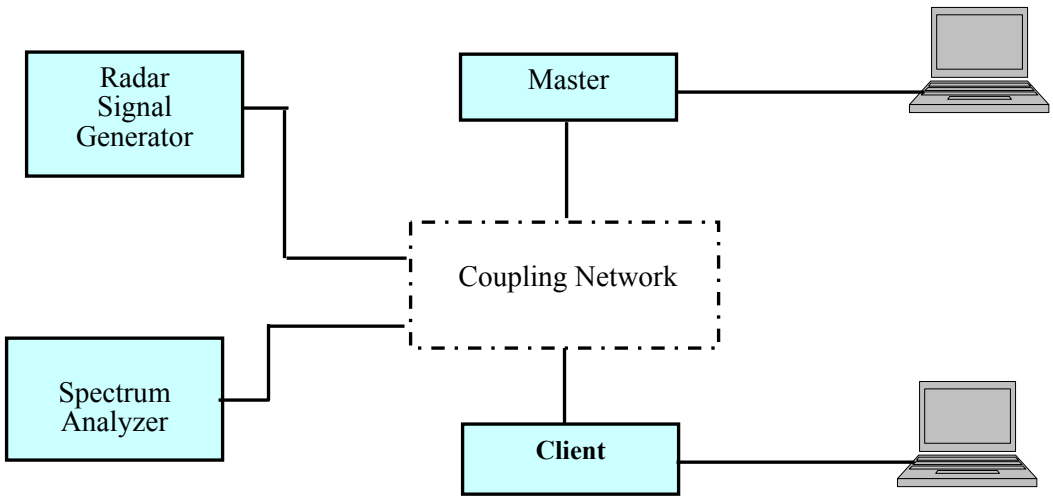
Table 7: Frequency Hopping Radar Test Signal

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

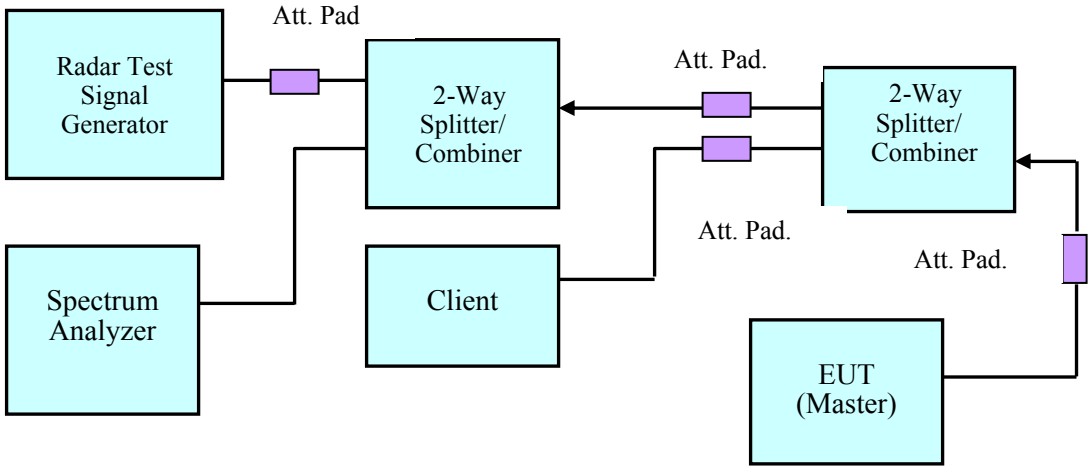
4.2 DFS Measurement System

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

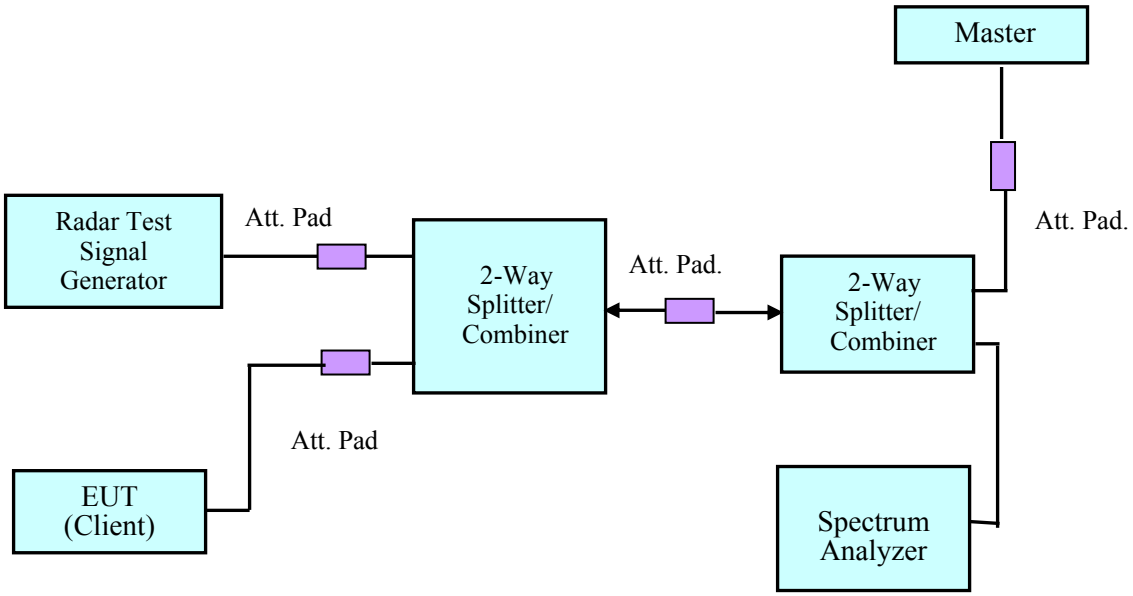
4.3 System Block Diagram



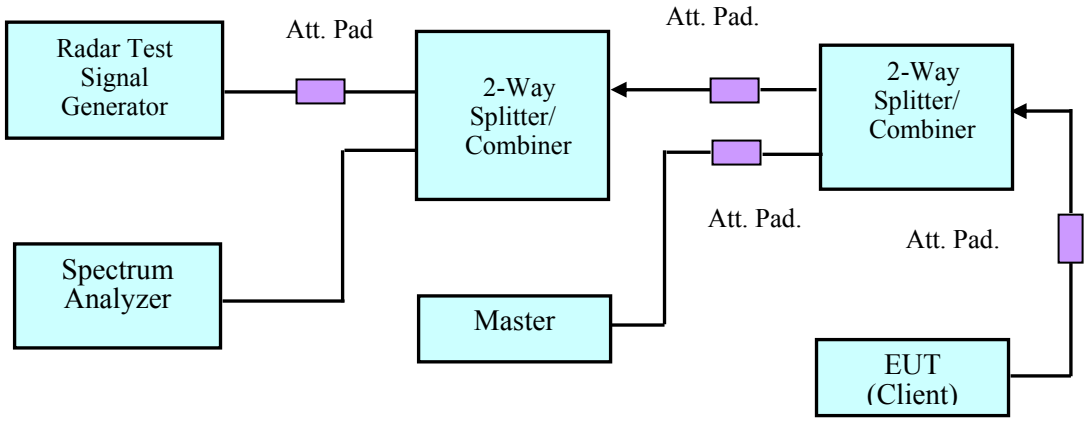
4.4 Conducted Method



Setup for Master with injection at the Master

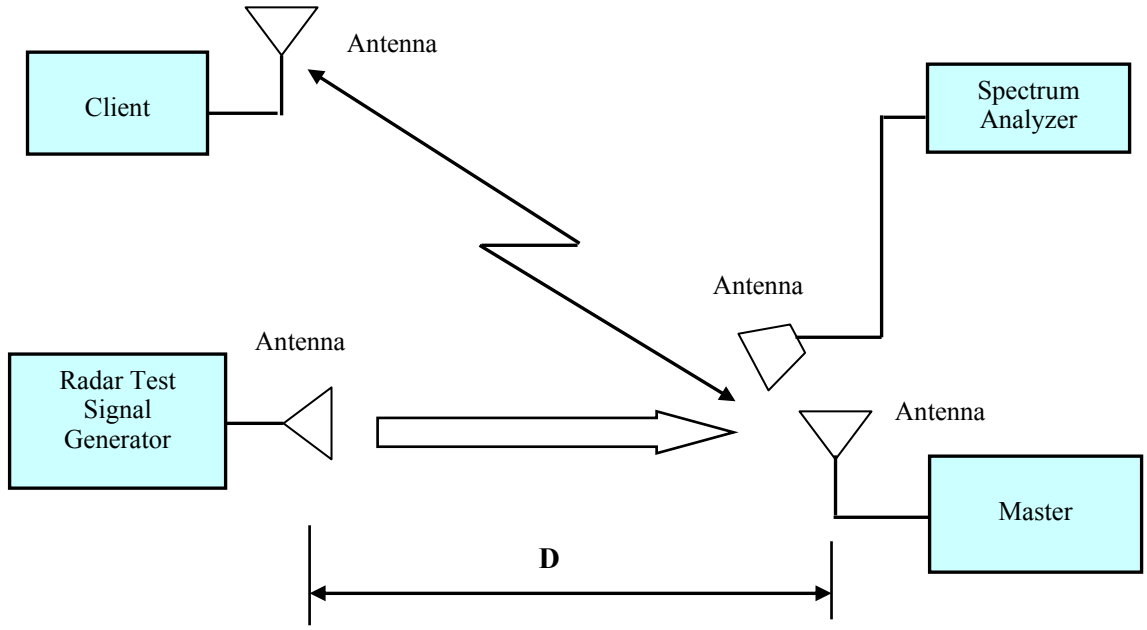


Setup for Client with injection at the Master



Setup for Client with injection at the Client

4.5 Radiated Method



4.6 Test Procedure

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

5 Test Results

5.1 Description of EUT

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

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

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

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

The EUT was tested with the 5.5 dBi gain antenna.

5.2 Test Equipment List and Details

Manufacturer	Equipment Description	Model	S/N	Calibration Date
National Instruments	NI PXI-1042 8-Slot chassis	PXI-1042	V08X01EE1	N/A
National Instruments	Arbitrary Waveform Generator	PXI-5421	N/A	N/A
National Instruments	RF Upconverter	PXI-5610	N/A	N/A
ASCOR	Upconverter	AS-7206	N/A	N/A
Agilent	Spectrum Analyzer	E4440A	MY44303352	2014-10-16
A.R.A.	Antenna Horn	DRG-118/A	1132	2015-01-29
EMCO	Antenna Horn	3115	9511-4627	2014-10-17
Mini-Circuits	Splitter/Combiner	2FSC-2-10G	0349	N/A
Narda	Splitter/Combiner	4326B-2	03514	N/A
Midwest	Attenuator	290-30	N/A	N/A
Mini-Circuits	Attenuator	BW-S30W2	N/A	N/A

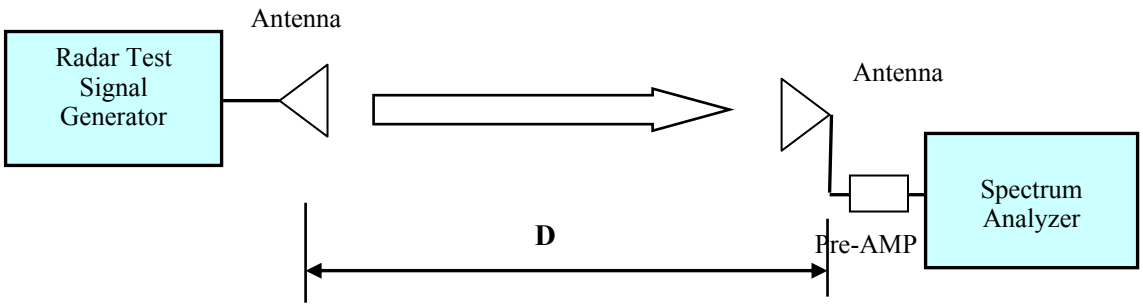
Statement of Traceability: BACL Corp. *attests that all calibrations have been performed according to A2LA requirements, traceable to the NIST.*

5.3 Test Environmental Conditions

Temperature:	22° C
Relative Humidity:	45 %
ATM Pressure:	101.9 kPa

The testing performed by Jin Yang on 2015-10-27 at DFS testing site.

5.4 Radar Waveform Calibration

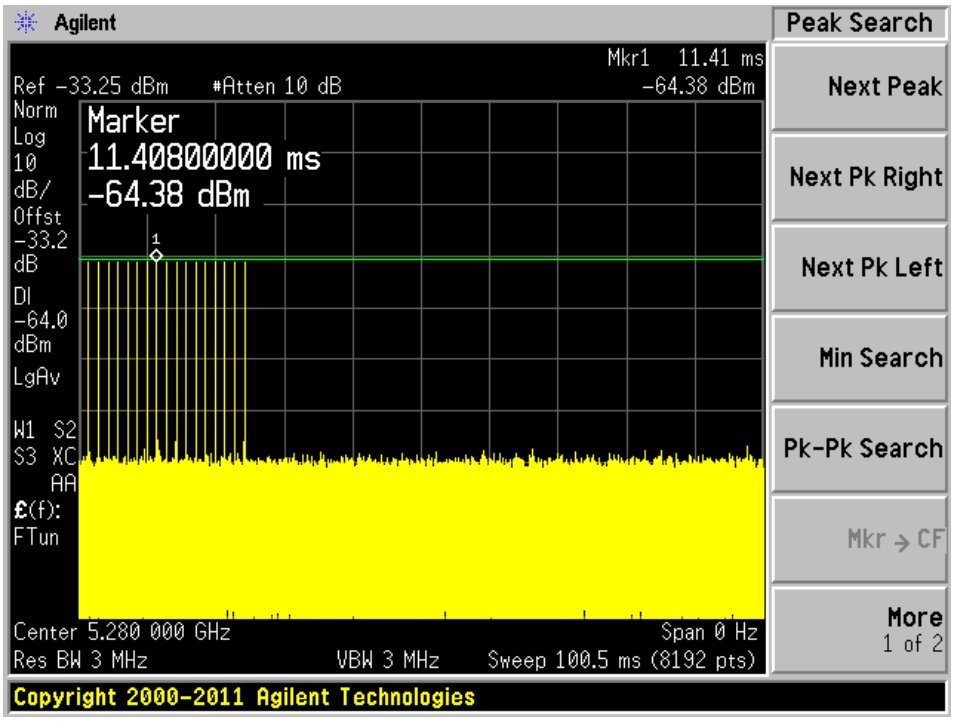


Radiated Calibration Setup Block Diagram

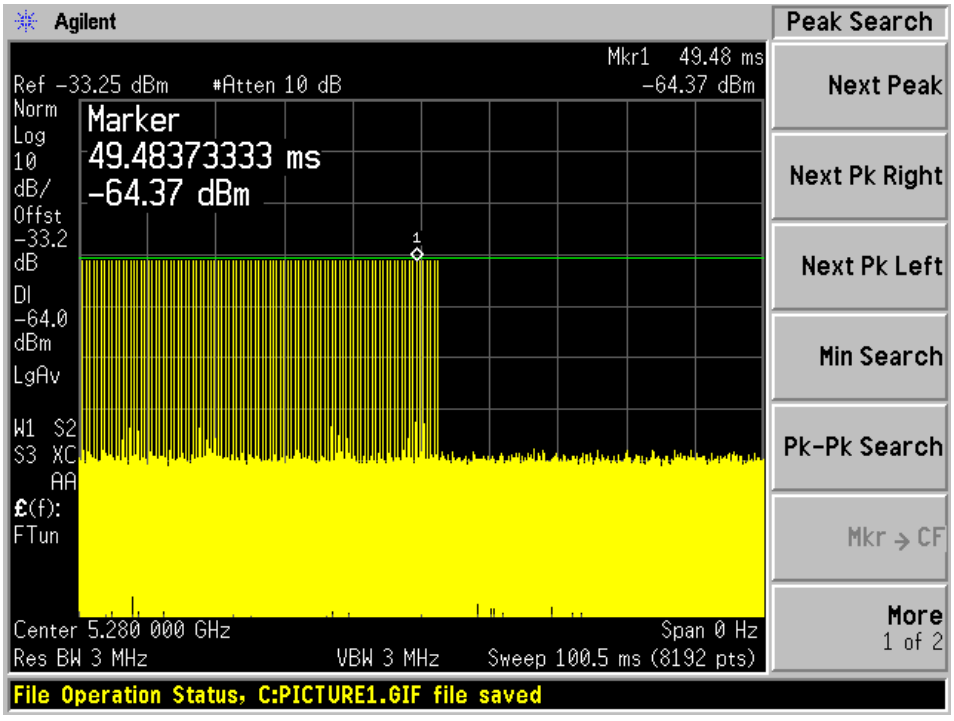
Plots of Radar Waveforms

5280 MHz

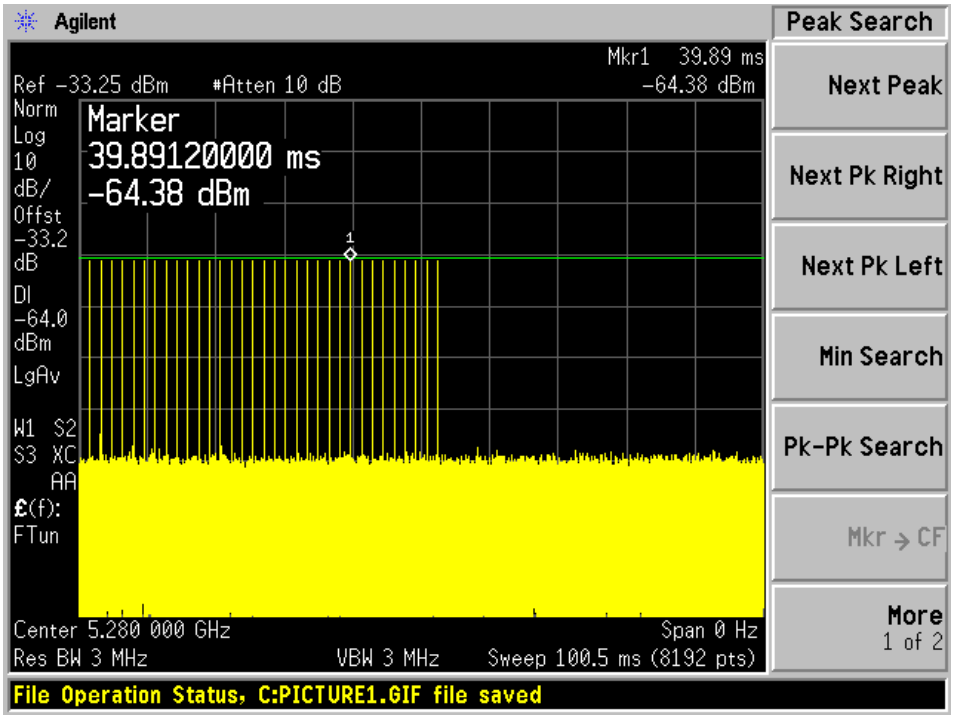
Radar Type 0



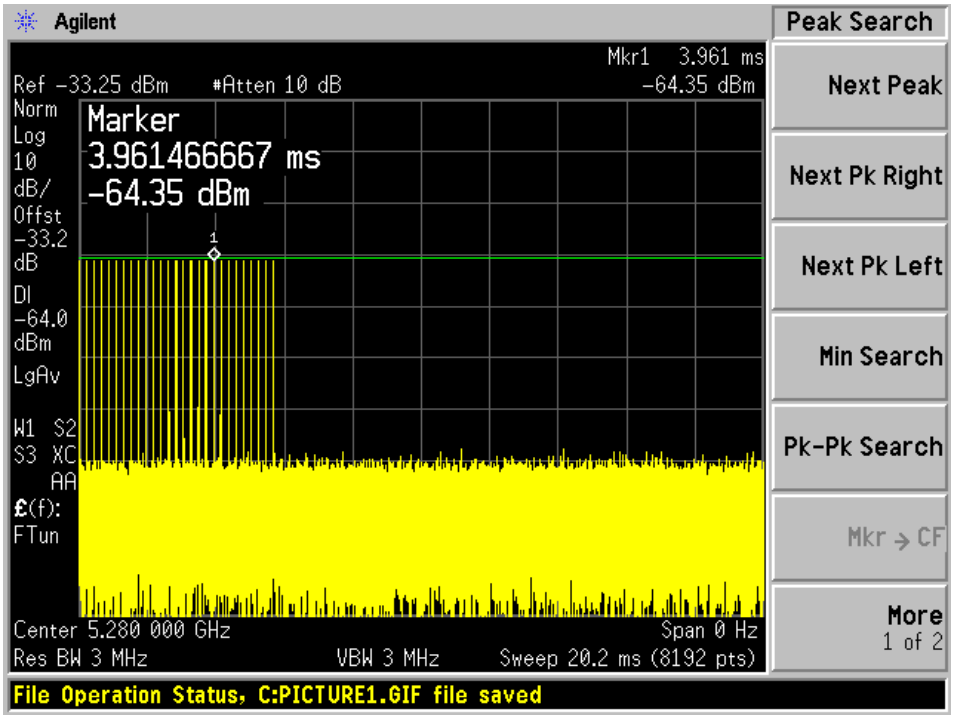
Radar Type 1A



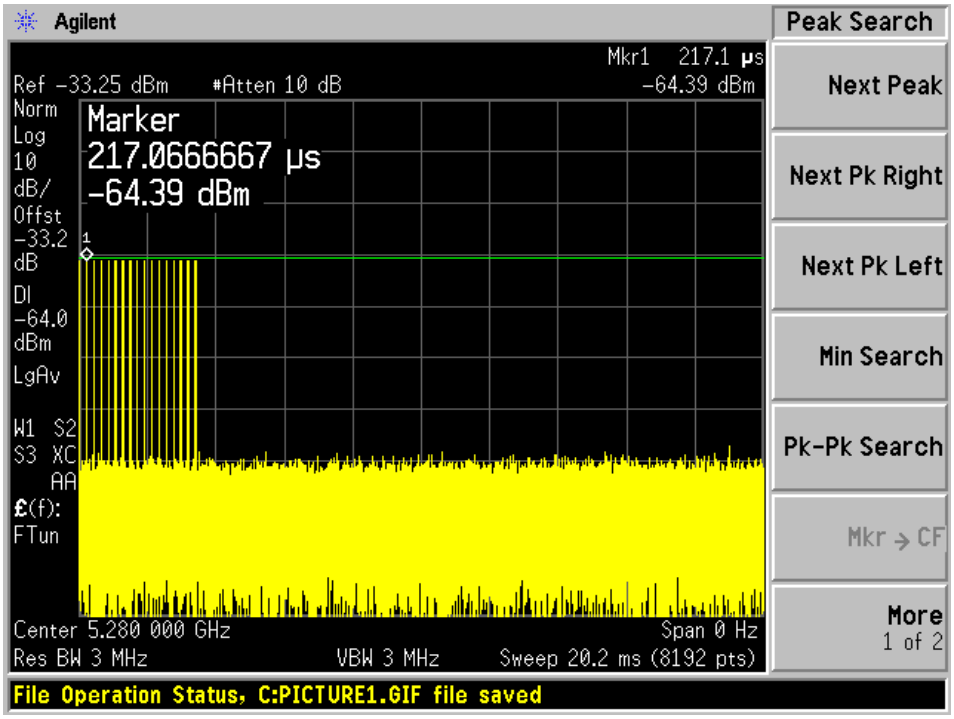
Radar Type 1B



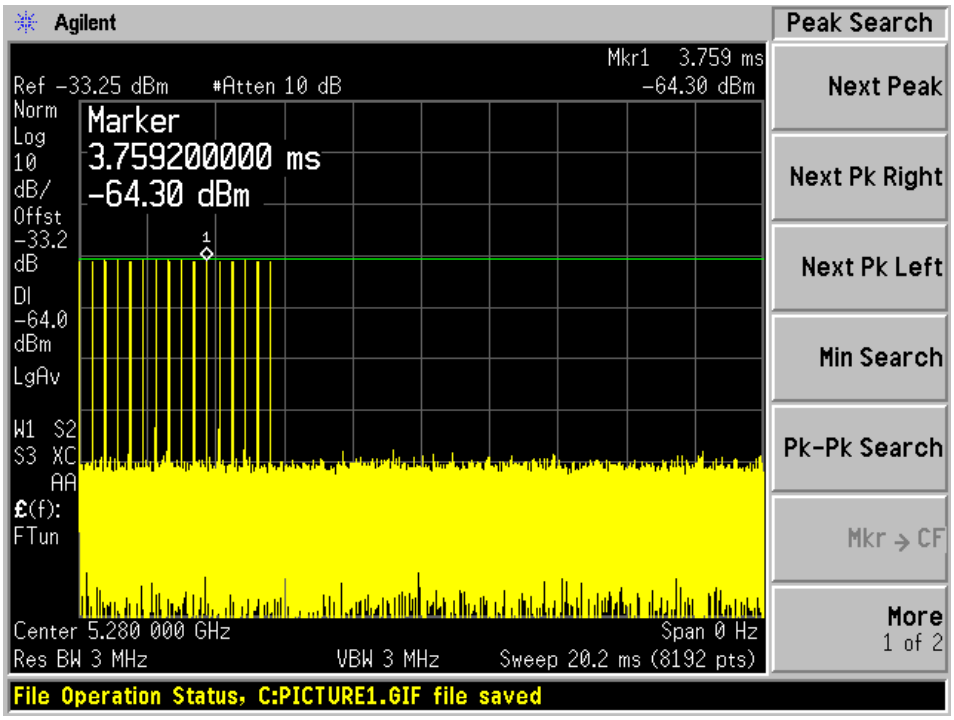
Radar Type 2



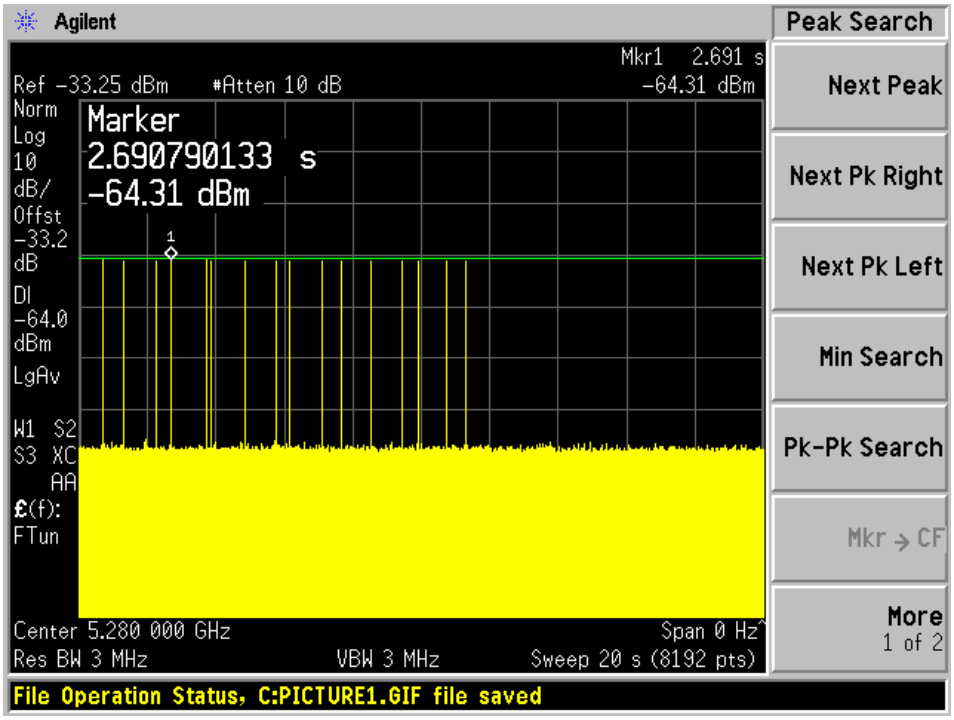
Radar Type 3



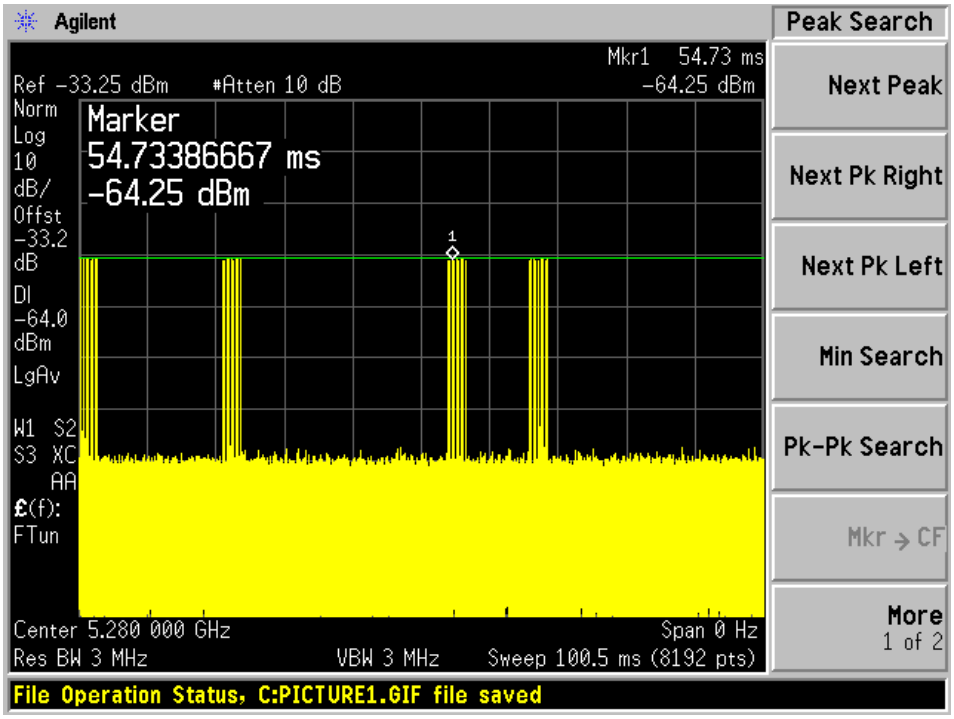
Radar Type 4



Radar Type 5

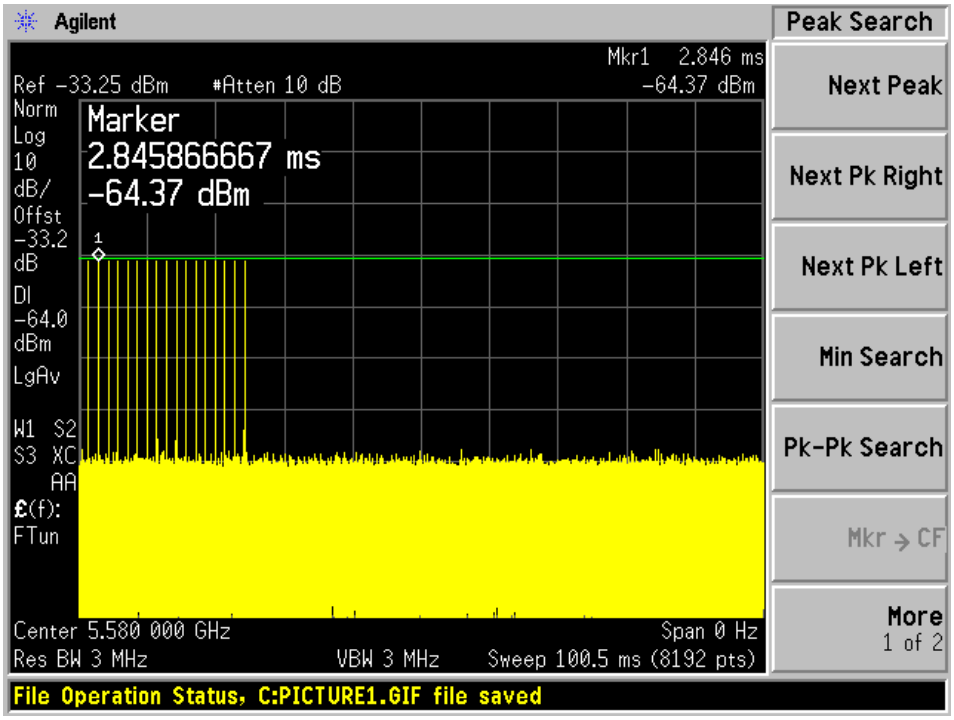


Radar Type 6

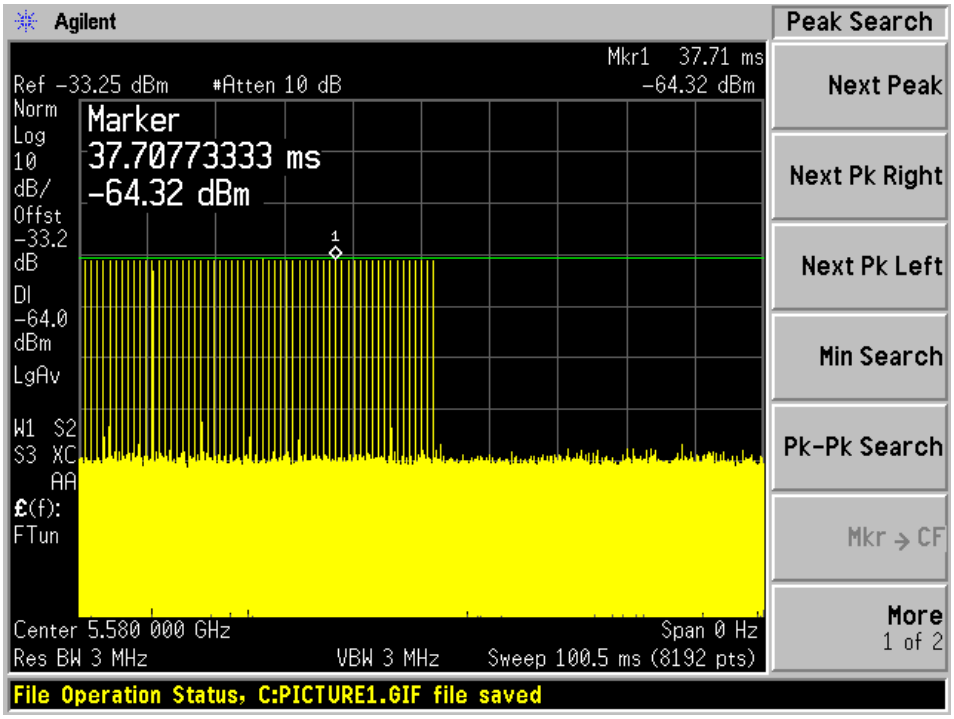


5580 MHz

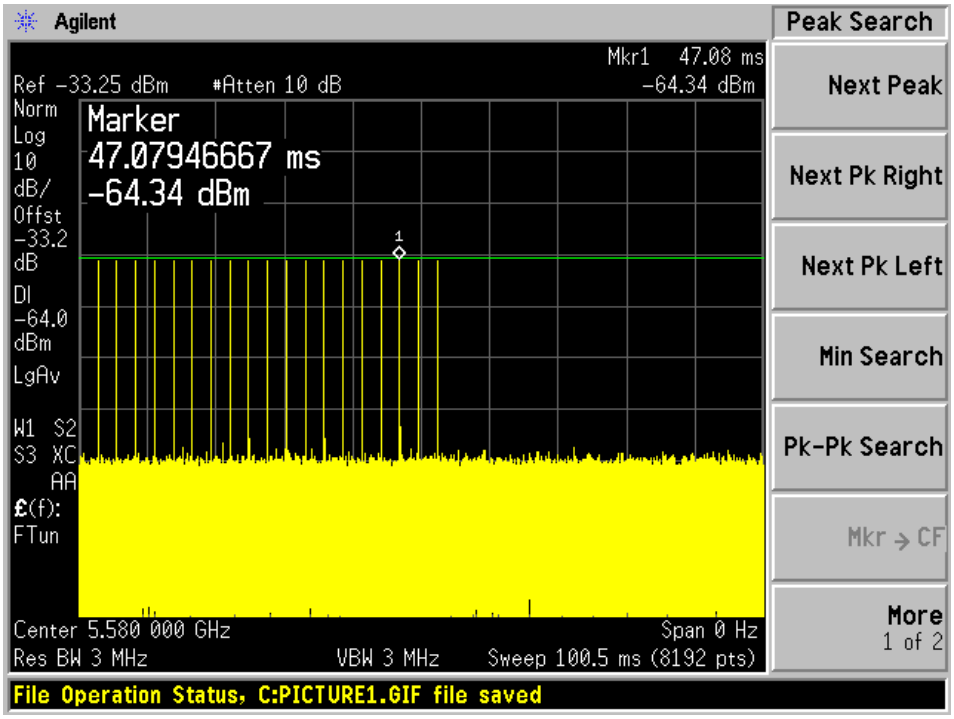
Radar Type 0



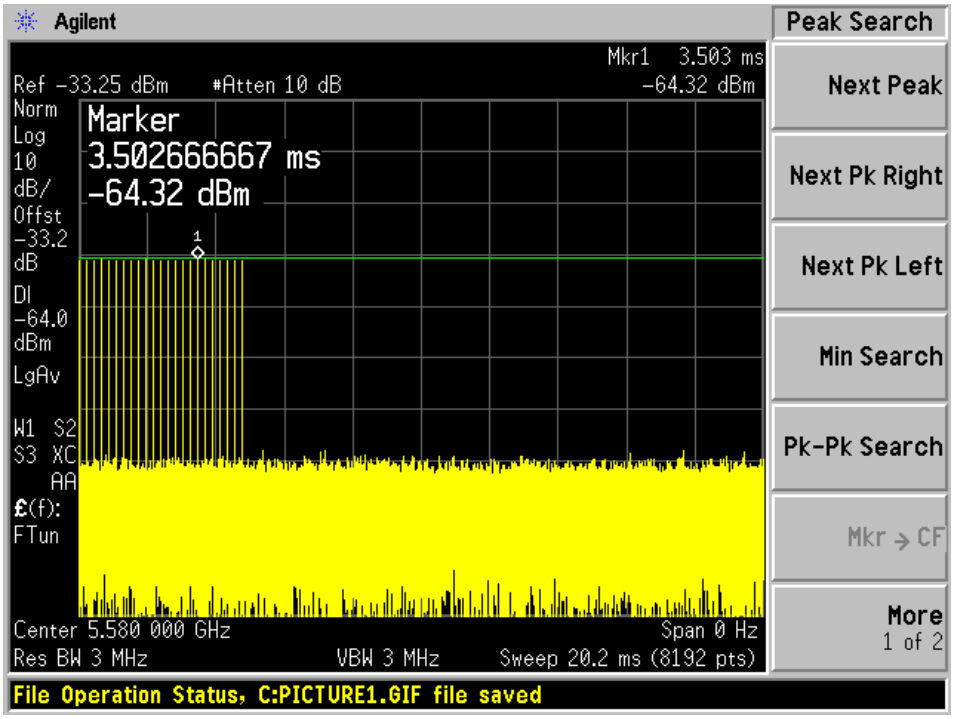
Radar Type 1A



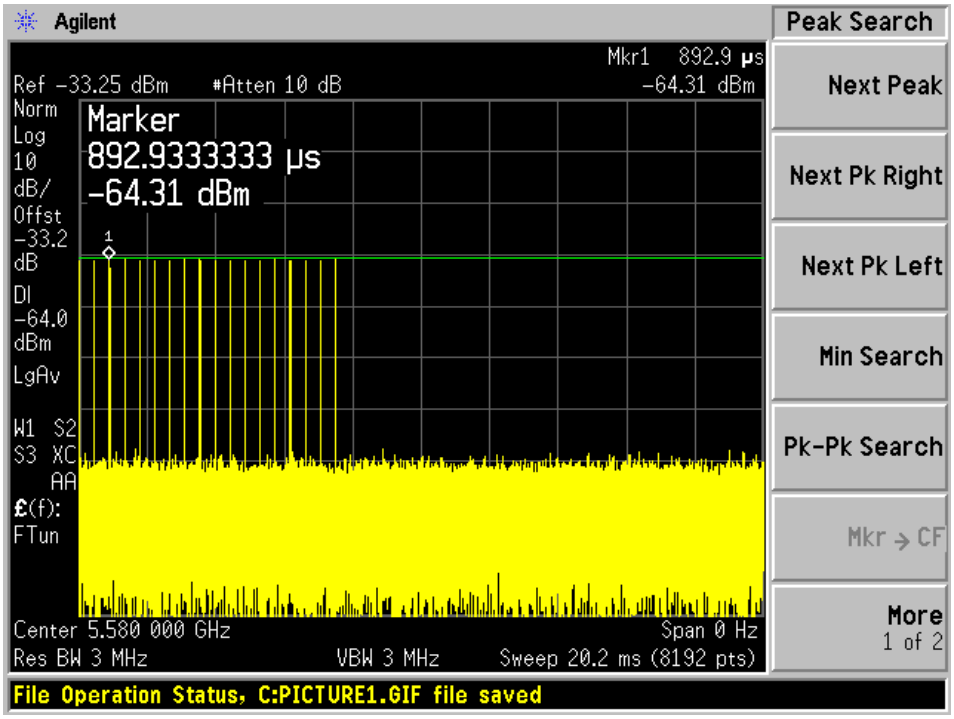
Radar Type 1B



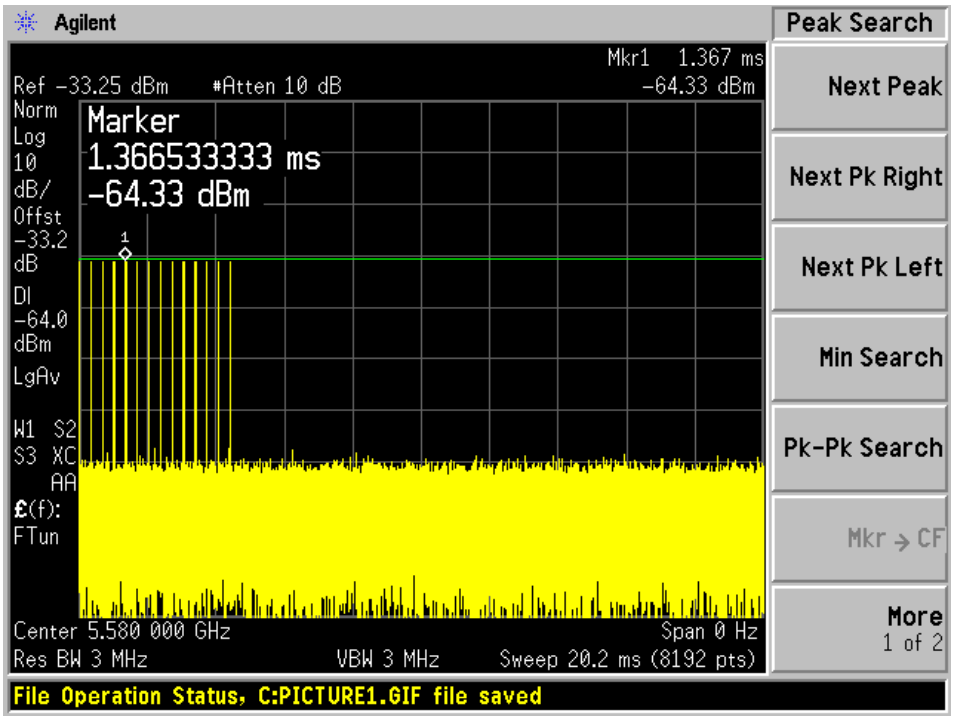
Radar Type 2



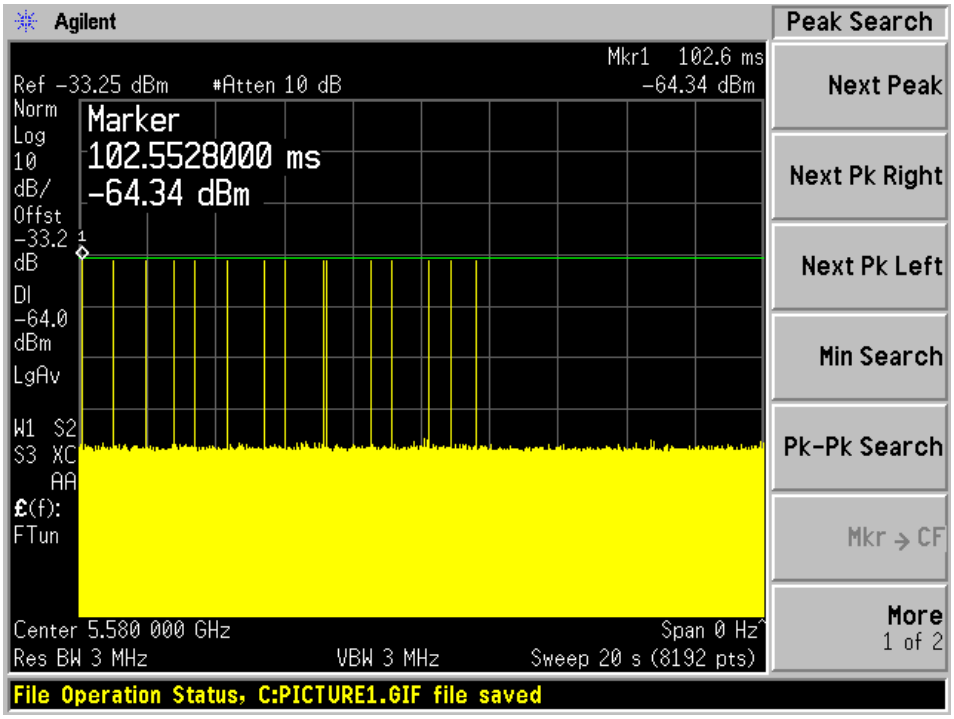
Radar Type 3



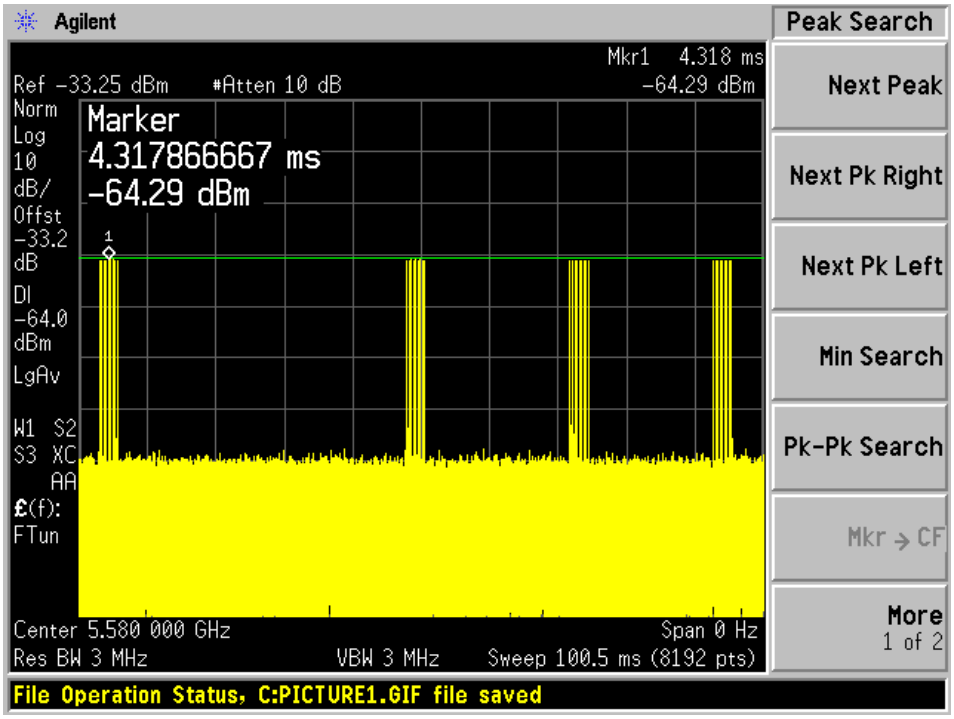
Radar Type 4



Radar Type 5



Radar Type 6



6 Radar Detection Bandwidth & Radar Detection Performance Check

6.1 Detection Bandwidth

Procedure:

Performed with short pulse radar waveforms (type 0)

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 5 MHz and repeat
Perform at least 10 trials and confirm at least 90% detected
Continue incrementing the radar frequency until detection rate falls below 90%

Starting at Fc -5 MHz, Repeat this measurement in 1MHz steps at frequencies 5 MHz below where the detection rate begins to fall.

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

UNII Detection Bandwidth = $F_H - F_L$

Test Results

Frequency (MHz)	F_L (MHz)	F_H (MHz)	Detection Bandwidth (MHz)	Result
5280	5270	5290	20	Compliance
5580	5570	5590	20	Compliance
5270	5250	5290	40	Compliance
5550	5530	5569	39	Compliance

Please refer to the following tables and plots.

Results of Detection Bandwidth:

EUT Frequency = 5280 MHz											
DFS Detection Trials (1 = Detected, Blank = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5269	0	0	0	0	0	0	0	0	0	0	0 %
5270(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5275	1	1	1	1	1	1	1	1	1	1	100 %
5280(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5285	1	1	1	1	1	1	1	1	1	1	100 %
5290(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5291	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = $F_H - F_L$=5290-5270=20 MHz											

EUT Frequency = 5580 MHz											
DFS Detection Trials (1 = Detected, Blank = No Detected)											
Radar Frequency (MHz)	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**Detection Rate (%)**
5569	0	0	0	0	0	0	0	0	0	0	0 %
5570(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5575	1	1	1	1	1	1	1	1	1	1	100 %
5580(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5585	1	1	1	1	1	1	1	1	1	1	100 %
5590(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5591	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = $F_H - F_L$=5590-5570=20 MHz											

EUT 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 %
5255	1	1	1	1	1	1	1	1	1	1	100 %
5260	1	1	1	1	1	1	1	1	1	1	100 %
5265	1	1	1	1	1	1	1	1	1	1	100 %
5270(Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5275	1	1	1	1	1	1	1	1	1	1	100 %
5280	1	1	1	1	1	1	1	1	1	1	100 %
5285	1	1	1	1	1	1	1	1	1	1	100 %
5290(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5291	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = $F_H - F_L$=5290-5250=40 MHz											

EUT 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 (%)**
5529	0	0	0	0	0	0	0	0	0	0	0 %
5530(F_L)	1	1	1	1	1	1	1	1	1	1	100 %
5535	1	1	1	1	1	1	1	1	1	1	100 %
5540	1	1	1	1	1	1	1	1	1	1	100 %
5545	1	1	1	1	1	1	1	1	1	1	100 %
5550 (Fc)	1	1	1	1	1	1	1	1	1	1	100 %
5555	1	1	1	1	1	1	1	1	1	1	100 %
5560	1	1	1	1	1	1	1	1	1	1	100 %
5565	1	1	1	1	1	1	1	1	1	1	100 %
5569(F_H)	1	1	1	1	1	1	1	1	1	1	100 %
5570	0	0	0	0	0	0	0	0	0	0	0 %
Detection Bandwidth = $F_H - F_L$ =5569-5530=39 MHz											

6.2 Radar Detection Performance Check

Procedure:

Stream MPEG file from master to slave
Generate radar waveform
Record whether or not the waveform was detected
At least 30 trials are applied for each radar type
For radar types with randomized parameters, each trial uses a unique waveform
Perform with each of the radar types 1-6

Confirm that the detection rate for each radar type meets the minimum requirement
Type 1A&1B, 2, 3, 4: 60% each
Type 5: 80%
Type 6: 70%
Confirm that the mean of the rates for radar types 1 through 4 meets the requirement of 80%

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

Test Results:

5280 MHz, 20 MHz Bandwidth

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

Please refer to the following statistical tables:

5280 MHz, 20 MHz Bandwidth

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

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5280	61	1	878	1
2	5280	72	1	738	1
3	5280	67	1	798	1
4	5280	68	1	778	1
5	5280	70	1	758	1
6	5280	58	1	918	1
7	5280	74	1	718	1
8	5280	78	1	678	1
9	5280	89	1	598	1
10	5280	76	1	698	1
11	5280	81	1	658	1
12	5280	63	1	838	1
13	5280	83	1	638	1
14	5280	65	1	818	1
15	5280	92	1	578	1
16	5280	27	1	1960	1
17	5280	26	1	2055	1
18	5280	75	1	704	1
19	5280	39	1	1388	1
20	5280	28	1	1954	1
21	5280	26	1	2071	1
22	5280	38	1	1390	1
23	5280	30	1	1769	1
24	5280	20	1	2712	1
25	5280	25	1	2153	1
26	5280	21	1	2523	1
27	5280	20	1	2750	1
28	5280	44	1	1200	1
29	5280	20	1	2668	1
30	5280	28	1	1946	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	28	1.9	197	1
2	5280	26	3.7	220	1
3	5280	29	4.9	205	1
4	5280	28	3.7	225	1
5	5280	28	3.1	182	1
6	5280	28	1.6	185	1
7	5280	23	4.5	164	1
8	5280	26	4.6	189	1
9	5280	29	4.5	208	1
10	5280	26	4.1	214	1
11	5280	24	1.9	227	1
12	5280	26	3.9	204	1
13	5280	29	4.8	197	1
14	5280	25	4.4	206	1
15	5280	24	1.8	166	1
16	5280	29	3.2	222	1
17	5280	29	2.9	210	1
18	5280	25	1.9	216	1
19	5280	23	4.1	202	1
20	5280	28	2.8	198	1
21	5280	23	4.5	189	1
22	5280	27	1.9	164	1
23	5280	29	1.2	218	1
24	5280	28	4.9	204	1
25	5280	29	2.2	178	1
26	5280	27	4	157	1
27	5280	26	2.4	186	1
28	5280	23	4.5	220	1
29	5280	28	2.9	193	1
30	5280	24	3.6	168	1
Detection Percentage: 100 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5280	18	9.4	241	1
2	5280	18	7	335	1
3	5280	17	8.1	464	1
4	5280	16	9	253	1
5	5280	16	7.9	492	1
6	5280	17	7.5	248	1
7	5280	18	6.8	422	1
8	5280	17	7.3	327	1
9	5280	18	9.4	486	1
10	5280	16	7.8	327	1
11	5280	17	6.9	336	1
12	5280	18	8.7	473	1
13	5280	17	8.9	455	1
14	5280	16	9.8	436	1
15	5280	16	8.3	364	1
16	5280	16	8.9	356	1
17	5280	16	8.8	215	1
18	5280	18	6.2	200	1
19	5280	16	9.5	204	1
20	5280	18	6.9	308	1
21	5280	17	8.9	251	1
22	5280	18	6.6	379	1
23	5280	17	6.5	384	1
24	5280	17	6.3	263	1
25	5280	18	6.2	390	1
26	5280	18	8.6	201	1
27	5280	18	7.1	433	1
28	5280	17	6.2	229	1
29	5280	18	9.9	456	1
30	5280	17	7.1	457	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	14	11.5	346	1
2	5280	16	12.4	236	1
3	5280	16	18.8	330	1
4	5280	14	11.1	267	1
5	5280	13	16.4	280	1
6	5280	14	14.9	349	1
7	5280	13	16.2	426	1
8	5280	16	16	258	1
9	5280	16	12.2	357	1
10	5280	15	19.2	459	1
11	5280	14	16.1	448	1
12	5280	14	16.9	204	1
13	5280	14	11.8	480	1
14	5280	16	12.7	410	1
15	5280	14	17	278	1
16	5280	13	15.2	213	1
17	5280	15	13.5	383	1
18	5280	15	19.9	331	1
19	5280	16	17.8	440	1
20	5280	16	12.9	396	1
21	5280	12	14.2	356	1
22	5280	13	14.3	296	1
23	5280	13	14.4	394	1
24	5280	14	12.8	233	1
25	5280	14	19.7	211	1
26	5280	13	11.4	275	1
27	5280	13	11	477	1
28	5280	15	11.8	490	1
29	5280	14	14.9	300	1
30	5280	13	11.1	288	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	15	99.5	1902		0.662277	1
1	2	10	60.9	1347		1.393666	
2	1	6	70.2			2.500482	
3	2	13	51.3	1801		3.095555	
4	2	18	60	1472		4.138225	
5	2	16	68.6	1985		5.085999	
6	2	11	87.2	1653		5.167637	
7	1	6	55.9			6.436102	
8	2	20	62.7	1652		6.905152	
9	2	5	95.5	1727		7.823944	
10	3	16	72.4	1136	1351	8.753985	
11	2	9	96.5	1305		9.903537	
12	2	11	77.4	1212		10.906372	
13	1	12	72.7			11.712938	

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	18	96.1			0.305683	
1	2	19	83.1	1493		0.773399	
2	2	11	82.5	1886		1.719443	
3	1	10	83.3			2.480901	
4	2	20	79.3	1850		3.141732	
5	2	12	97.7	1727		3.617854	
6	1	17	62.9			3.887682	
7	1	6	58.9			4.82762	
8	3	7	99.3	1310	1342	5.135404	
9	3	16	67.5	1895	1990	6.007801	1
10	1	14	94.1			6.849262	
11	2	14	83.5	1784		7.232707	
12	3	11	75.9	1434	1817	7.814858	
13	2	14	54.3	1612		8.453577	
14	1	20	84.4			9.305752	
15	2	16	51.5	1419		10.079329	
16	2	11	59.2	1799		10.19228	
17	1	10	75			11.334154	
18	1	18	97.6			11.712665	

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	10	94.1			0.455882	1
1	1	13	98.9			1.407364	
2	2	14	67.2	1851		1.847098	
3	2	20	50	1583		2.77676	
4	2	9	73.3	1119		3.897955	
5	2	15	64.7	1364		5.076064	
6	2	8	50.5	1706		5.658099	
7	2	7	57.7	1443		6.717527	
8	3	16	84.8	1609		7.288005	
9	3	15	72.2	1671		8.492145	
10	2	20	92.1	1676		8.609472	
11	2	18	53.9	1794		10.101687	
12	1	6	92.5			10.82839	
13	2	9	69.5	1863		11.420934	

Bin5 Statistics 4

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	14	68.7			0.174158	1
1	3	15	64.9	1508	1924	1.516841	
2	1	10	84.6			2.929186	
3	1	17	53.9			4.308843	
4	2	13	59.6	1678		4.959451	
5	2	14	60.5	1310		5.71844	
6	1	17	57.4			7.104301	
7	1	8	57.8			7.687881	
8	2	14	65.1	1556		8.870927	
9	1	15	86.2			10.610505	
10	3	14	70.6	1062	1685	11.525095	

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	6	68.1	1112		0.30817	1
1	1	10	95.6			0.934563	
2	2	13	66.6	1275		1.707339	
3	2	17	68.8	1301		2.155295	
4	1	19	66.4			2.97262	
5	2	10	89	1313		3.033079	
6	2	19	61.2	1477		4.105503	
7	1	16	86.3			4.622453	
8	3	13	73.6	1242	1275	4.9304	
9	3	14	86.3	1536	1374	5.87061	
10	1	12	53.6			6.277413	
11	3	10	97.5	1132	1406	6.954948	
12	3	17	85.1	1690	1900	7.274354	
13	2	11	94.5	1494		8.158459	
14	3	7	54.4	1245	1615	8.803248	
15	3	16	70.3	1605	1403	9.070055	
16	2	12	90.1	1015		9.730424	
17	3	8	55.3	1290	1918	10.357935	
18	1	14	55.6			11.180662	
19	3	11	89.3	1098	1300	11.692259	

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	8	87.1			0.596766	1
1	3	15	81.4	1701	1067	1.472755	
2	3	19	75.2	1696	1304	2.240985	
3	3	12	90.5	1864	1595	3.43474	
4	2	11	72.8	1247		4.055535	
5	1	10	52.7			5.811267	
6	3	20	58.3	1302	1431	6.673656	
7	2	11	90.8	1224		7.469613	
8	1	5	90.2			8.792006	
9	2	12	63.5	1445		9.444024	
10	2	12	59.8	1030		10.352228	
11	2	19	82.4	1630		11.270559	

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	87.7	1645		0.633062	1
1	1	12	99			1.959097	
2	1	6	87.9			3.437066	
3	1	20	54.9			4.6898	
4	2	17	83.2	1474		5.845678	
5	2	11	91.7	1780		7.084972	
6	3	13	62	1700	1029	8.31417	
7	2	13	61.9	1571		8.910233	
8	3	13	70.9	1412	1932	10.053091	
9	2	15	94.3	1640		11.595847	

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	19	81.7			0.930975	1
1	3	8	54.3	1535	1223	2.019752	
2	3	6	99	1419	1685	2.23869	
3	2	6	90.9	1704		3.907274	
4	2	14	86	1917		4.960943	
5	1	11	57			6.447639	
6	2	17	75.4	1065		7.461782	
7	2	13	51.7	1672		8.468153	
8	3	7	52.9	1684	1833	9.688462	
9	3	7	55.5	1356	1327	10.004441	
10	1	18	73.8			11.359489	

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	12	57.8	1610		0.010454	1
1	2	9	62	1103		0.742733	
2	2	8	78.8	1019		1.48326	
3	2	12	71.3	1810		2.297281	
4	1	18	70			2.709359	
5	3	10	60.3	1364	1033	3.366414	
6	2	20	60.7	1451		4.502501	
7	1	7	86.9			5.170273	
8	1	10	51.3			5.908262	
9	1	13	64.8			6.505558	
10	2	17	84.5	1119		6.818809	
11	2	9	64.1	1648		7.850939	
12	2	12	64.3	1519		8.60461	
13	1	18	59.3			9.068824	
14	1	5	55.6			9.670516	
15	2	12	70.2	1649		10.347393	
16	2	14	63.8	1904		11.015277	
17	2	9	68.2	1779		11.51094	

Bin5 Statistics 10

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	5	93.8	1651	1975	0.013154	1
1	1	16	67.4			0.843557	
2	3	18	85.8	1690	1462	1.593757	
3	3	9	82.1	1014	1677	1.805723	
4	2	16	52.9	1613		2.637113	
5	1	8	55.1			3.407588	
6	1	20	56			3.759167	
7	2	7	56.7	1263		4.391547	
8	2	8	97.1	1577		4.969056	
9	2	14	78.7	1472		5.677952	
10	2	15	68	1746		6.036201	
11	3	6	64.6	1665	1059	7.09095	
12	1	11	70.7			7.655731	
13	3	12	73.6	1141	1133	7.924563	
14	2	18	59.6	1883		8.530285	
15	2	18	66.7	1064		9.034223	
16	3	5	97.7	1136	1245	10.101613	
17	1	12	62			10.430639	
18	2	9	78.6	1692		11.164646	
19	2	6	81.9	1916		11.863012	

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	14	55	1068		0.160655	1
1	3	19	76.1	1577	1395	1.489525	
2	2	19	89.2	1761		2.391592	
3	3	8	55.8	1333	1346	2.942654	
4	2	19	67.6	1161		3.90453	
5	2	20	88.9	1414		5.129227	
6	1	19	99.3			5.955012	
7	2	10	75	1448		6.601194	
8	3	19	91.3	1311	1772	7.203777	
9	1	9	65.2			8.443796	
10	2	8	81	1828		8.806945	
11	2	15	97.2	1437		9.960261	
12	2	20	66.7	1272		10.771959	
13	2	19	56.3	1135		11.872476	

Bin5 Statistics 12

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	16	77.9	1503		0.358869	
1	3	17	87.9	1535	1021	0.706116	
2	1	9	70.4			1.786993	
3	2	14	83	1200		1.902072	
4	1	7	84.7			2.737412	
5	2	6	65.9	1268		3.574244	
6	2	18	90.8	1196		3.876438	
7	3	20	75.3	1300	1908	4.86702	
8	3	17	65.6	1748	1525	5.384807	
9	2	15	75.2	1816		5.933829	1
10	3	15	92.8	1412	1784	6.550938	
11	3	19	52	1927	1653	7.288965	
12	2	10	64.5	1850		7.817712	
13	2	15	91.7	1268		8.214542	
14	2	17	56	1689		9.402502	
15	1	6	72.9			9.737189	
16	2	16	65.3	1704		10.587805	
17	2	10	65.4	1663		10.757011	
18	3	20	89.2	1779	1483	11.412239	

Bin5 Statistics 13

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	19	79.5			0.333068	1
1	3	9	99.1	1849	1303	1.057716	
2	2	15	66.2	1575		1.772476	
3	1	11	54.3			2.179957	
4	2	7	69.6	1932		2.878215	
5	1	8	80.9			3.302495	
6	3	17	67.5	1649	1684	3.692285	
7	2	12	96.3	1613		4.765561	
8	1	12	88.8			5.040927	
9	2	13	99.5	1637		5.624095	
10	1	19	76.1			6.075057	
11	2	19	96.2	1084		7.152522	
12	3	6	97.1	1951	1242	7.553219	
13	3	5	60.1	1432	1022	8.048203	
14	2	9	84.9	1711		8.586667	
15	2	20	99.9	1707		9.542229	
16	2	13	88.7	1993		10.00219	
17	2	9	66.5	1829		10.343707	
18	2	6	79.2	1005		10.952242	
19	2	19	63	1742		11.88177	

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	7	99.8	1652		0.201177	1
1	3	10	88.1	1104	1805	1.284507	
2	2	19	89.8	1286		1.605288	
3	3	12	91.3	1097	1651	2.742709	
4	2	11	92.4	1484		3.187262	
5	3	7	53.3	1148	1267	4.113179	
6	3	5	67.2	1351	1016	4.814717	
7	3	9	51.4	1856	1117	5.92166	
8	2	9	56.2	1882		6.687757	
9	3	11	71.1	1093	1623	7.292687	
10	1	7	62			7.754334	
11	1	18	60.3			8.632717	
12	1	15	80.1			9.181616	
13	3	14	83.9	1030	1700	10.470803	
14	2	8	54.4	1614		11.053773	
15	2	11	64.6	1197		11.365352	

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	16	63.6			0.143708	1
1	3	14	94.5	1685	1262	1.370837	
2	1	15	59			2.702273	
3	2	17	67.7	1890		3.947969	
4	3	14	83.9	1557	1521	5.144548	
5	1	17	95.3			6.010292	
6	1	7	99.8			7.320801	
7	3	11	55.1	1033	1570	8.056782	
8	3	19	93	1460	1102	9.630406	
9	3	7	61.1	1956	1129	10.101582	
10	1	7	70.6			11.691938	

Bin5 Statistics 16

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	6	84.9			0.439703	1
1	2	19	85.1	1224		1.059195	
2	3	13	97.2	1624	1821	2.22948	
3	3	10	56.8	1142	1511	2.78186	
4	2	13	50.8	1744		4.191097	
5	2	7	95.1	1617		4.408464	
6	2	13	92.9	1803		5.443609	
7	3	10	75.1	1166	1614	6.841967	
8	3	12	64.2	1786	1597	7.581068	
9	2	8	78.7	1377		8.222971	
10	1	7	71.7			8.719096	
11	2	11	85.6	1621		10.148474	
12	3	20	73.9	1786	1055	11.021873	
13	1	8	66.6			11.273628	

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	9	76.3	1936	1213	0.236814	1
1	1	14	60.7			1.191498	
2	3	7	87.1	1821	1834	1.673094	
3	1	9	78.2			2.145735	
4	2	19	81.5	1154		3.383456	
5	3	18	77.4	1359	1273	3.923262	
6	3	6	58.4	1152	1392	4.889736	
7	3	13	95	1294	1947	5.222841	
8	1	15	74.5			5.897796	
9	2	14	94.6	1445		6.471635	
10	1	6	64.3			7.706801	
11	2	12	51.1	1214		8.26173	
12	1	12	60.8			9.147857	
13	2	11	86.3	1890		9.459191	
14	2	18	51.2	1375		10.218042	
15	2	12	69.5	1245		10.686923	
16	2	17	99.7	1108		11.398283	

Bin5 Statistics 18

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	16	71.7			0.117933	
1	2	18	50.3	1334		1.224337	
2	2	9	66.9	1147		1.678548	
3	2	5	85.6	1752		2.551684	
4	3	7	55.7	1610	1133	3.345695	
5	3	20	56.3	1073	1371	4.126132	
6	2	9	91.9	1359		4.453388	
7	2	9	62.8	1462		5.026396	
8	2	19	53.2	1810		5.779436	1
9	2	19	99.4	1436		6.827243	
10	1	19	80.8			7.48687	
11	2	17	57.4	1388		7.890284	
12	3	9	90.7	1691	1812	8.924692	
13	1	14	84.9			9.440517	
14	3	19	68.6	1199	1628	10.453303	
15	1	18	72.8			10.649711	
16	2	12	71	1463		11.768345	

Bin5 Statistics 19

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	17	64.9			0.640949	
1	1	7	94.9			1.590624	
2	3	8	91.6	1637	1647	2.380638	
3	2	11	83.8	1050		3.208303	
4	1	6	78.3			4.192808	
5	2	6	71.4	1979		4.652272	
6	1	17	79.8			5.608753	
7	3	9	66.3	1861	1349	6.121892	1
8	1	19	59.8			7.116836	
9	1	10	62.3			8.319869	
10	1	6	77.4			8.977213	
11	3	14	66.7	1873	1203	9.985197	
12	2	19	50.9	1166		10.822684	
13	2	15	71.1	1600		11.267373	

Bin5 Statistics 20

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	11	92.9			0.233976	
1	2	18	59.5	1324		1.368313	
2	3	10	56.7	1121	1845	1.696262	
3	1	15	52.9			2.408834	
4	2	6	63.1	1722		3.199195	
5	2	15	89.5	1158		4.165386	
6	1	16	73.6			4.665298	
7	1	9	77.6			5.257643	
8	3	12	99.1	1432	1372	6.288947	1
9	2	15	69.8	1861		6.644342	
10	1	18	67.8			7.561865	
11	1	10	89			7.785002	
12	1	14	58.9			8.497419	
13	2	10	75.6	1710		9.584724	
14	2	17	75.3	1372		10.309418	
15	1	10	89.1			10.664222	
16	2	13	85.8	1291		11.47778	

Bin5 Statistics 21

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	19	83.6	1402		0.702414	
1	3	15	90.1	1911	1397	1.353587	
2	1	16	68.2			2.349664	
3	2	14	56.9	1616		3.212242	
4	2	5	74	1901		3.753377	
5	1	18	59.1			4.565871	
6	1	15	84			5.314026	
7	3	9	85.7	1144	1167	6.008116	1
8	2	20	94.5	1954		7.098347	
9	1	5	54.7			8.143636	
10	2	19	87.6	1426		8.859665	
11	2	7	55.6	1274		9.511139	
12	1	15	65.1			10.684555	
13	1	18	61.6			11.204237	

Bin5 Statistics 22

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	6	61.4	1562		1.020476	1
1	1	19	97.2			2.343056	
2	1	8	54.2			3.524777	
3	2	10	72.9	1658		3.840056	
4	2	6	74.6	1501		5.241973	
5	3	15	53	1414	1310	6.58625	
6	2	12	75.6	1470		8.266011	
7	3	20	76.1	1996	1857	8.536998	
8	3	9	92.5	1210	1454	10.262981	
9	1	16	65			11.624598	

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	9	80.7	1382	1939	0.77996	1
1	2	11	71.9	1820		1.098473	
2	2	14	90.1	1589		2.117183	
3	3	17	54.8	1711	1119	3.242406	
4	3	18	55.8	1453	1240	3.702654	
5	2	13	86.8	1265		4.816532	
6	2	17	86.9	1822		6.453409	
7	2	10	96.2	1789		7.050708	
8	3	6	71.8	1939	1868	7.698563	
9	3	9	83.7	1143	1557	8.909206	
10	2	18	63.6	1983		9.857606	
11	2	13	76.4	1890		10.942779	
12	2	17	66.2	1051		11.94953	

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	19	76.9	1310		0.301557	1
1	1	11	58.4			1.592923	
2	2	14	92.5	1968		3.053345	
3	2	8	51.9	1359		4.610251	
4	3	17	89.6	1014	1235	5.335664	
5	2	17	55.5	1506		6.453358	
6	3	6	84.6	1279	1508	7.246012	
7	2	19	86.4	1196		8.683326	
8	1	9	55.9			10.381618	
9	2	13	97.4	1012		11.109252	

Bin5 Statistics 25

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	13	70.7			0.506363	1
1	1	7	92.2			0.745329	
2	3	13	65.1	1796	1029	1.312221	
3	3	12	68.4	1707	1208	2.440632	
4	3	13	82.6	1475	1899	2.615393	
5	3	14	73.5	1144	1235	3.41796	
6	3	8	80.9	1290	1923	4.399993	
7	2	18	62.6	1374		4.991415	
8	2	17	85.4	1530		5.082279	
9	2	16	85.5	1532		5.867196	
10	3	9	86.9	1974	1111	6.744246	
11	2	20	94	1054		7.505261	
12	2	9	71.3	1513		8.079854	
13	2	7	75.9	1707		8.243379	
14	2	9	72.9	1064		9.444594	
15	2	17	87.4	1538		9.841605	
16	2	15	99.3	1559		10.387734	
17	2	10	94.9	1978		11.116551	
18	2	10	95.3	1856		11.821276	

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	12	70.4	1073		0.131364	1
1	2	6	67.7	1921		2.484655	
2	1	11	81.2			2.863731	
3	2	11	55.3	1764		5.181388	
4	1	15	65.7			6.659786	
5	2	11	51.7	1962		7.574522	
6	3	16	51.7	1131	1591	8.196736	
7	2	20	50.8	1419		10.107665	
8	2	6	91.7	1578		10.886517	

Bin5 Statistics 27

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	7	95.8	1777		0.207963	1
1	2	7	63.7	1036		1.325171	
2	3	12	86.4	1277	1196	2.17358	
3	3	14	71.9	1514	1931	2.60347	
4	2	9	53.2	1552		3.288766	
5	2	18	97.4	1240		4.025249	
6	2	8	85.5	1596		5.549554	
7	2	20	84.3	1288		6.117584	
8	1	12	54.6			6.983258	
9	3	19	97.2	1076	1811	7.323887	
10	2	15	70.6	1036		8.678517	
11	2	17	55.6	1235		8.82216	
12	2	13	86.4	1748		10.177299	
13	3	17	73.7	1206	1253	10.644393	
14	2	15	69.4	1173		11.796158	

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	10	91.6			0.730664	
1	3	15	75.6	1480	1804	2.013155	
2	3	9	77.8	1897	1530	3.428262	
3	2	8	87.2	1127		4.40601	
4	1	9	87.3			6.053401	1
5	2	13	61.7	1707		6.689003	
6	1	20	51.7			8.93508	
7	3	7	79.2	1005	1139	10.559215	
8	3	18	73	1276	1214	11.835191	

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	12	88	1499		0.549485	
1	2	10	96	1647		1.142158	
2	1	11	72.7			1.669715	
3	3	9	69.6	1651	1087	2.608976	
4	3	6	66.9	1717	1490	3.43039	
5	2	8	61.8	1630		3.986992	
6	3	7	86	1335	1867	5.147434	
7	2	17	94.9	1712		5.25267	
8	1	14	56.6			6.118539	1
9	2	6	67.4	1856		7.251372	
10	2	18	64.7	1324		7.757796	
11	3	12	76.9	1836	1265	8.726668	
12	1	20	55.8			9.06174	
13	2	14	98.4	1906		10.219367	
14	2	15	60	1380		10.547697	
15	2	18	84.9	1149		11.910953	

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	7	59.5	1070	1064	0.235498	
1	3	17	55.7	1477	1582	0.696365	
2	2	14	86.2	1657		1.64001	
3	2	19	83.4	1627		1.916879	
4	1	12	91.1			3.098128	
5	3	18	74.2	1616	1542	3.382899	
6	1	6	59.9			3.955864	
7	2	15	59.7	1441		4.598575	
8	3	5	79.6	1554	1187	5.466352	
9	2	6	63	1951		5.740853	1
10	1	16	50.9			6.418456	
11	3	11	69	1916	1404	7.376673	
12	2	7	65.4	1935		7.939348	
13	2	14	60.5	1038		8.384775	
14	1	11	50.5			8.928787	
15	1	20	70.9			9.832556	
16	2	14	67.9	1417		10.397215	
17	1	12	92.5			11.018579	
18	1	5	60.5			11.400224	

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	5601.0, 5542.0, 5420.0, 5399.0, 5698.0, 5499.0, 5422.0, 5650.0, 5681.0, 5365.0, 5451.0, 5674.0, 5282.0, 5659.0, 5639.0, 5598.0, 5383.0, 5620.0, 5435.0, 5382.0, 5377.0, 5254.0, 5350.0, 5589.0, 5363.0, 5706.0, 5429.0, 5415.0, 5503.0, 5430.0, 5682.0, 5697.0, 5563.0, 5547.0, 5565.0, 5326.0, 5583.0, 5308.0, 5708.0, 5561.0, 5459.0, 5512.0, 5664.0, 5516.0, 5509.0, 5333.0, 5476.0, 5473.0, 5378.0, 5312.0, 5714.0, 5369.0, 5344.0, 5705.0, 5616.0, 5528.0, 5418.0, 5358.0, 5283.0, 5401.0, 5532.0, 5304.0, 5426.0, 5357.0, 5409.0, 5320.0, 5269.0, 5564.0, 5539.0, 5310.0, 5489.0, 5425.0, 5537.0, 5631.0, 5331.0, 5675.0, 5337.0, 5271.0, 5284.0, 5443.0, 5676.0, 5495.0, 5268.0, 5552.0, 5398.0, 5384.0, 5444.0, 5319.0, 5258.0, 5385.0, 5266.0, 5646.0, 5545.0, 5466.0, 5263.0, 5529.0, 5330.0, 5677.0, 5704.0, 5436.0 (number of hits: 7)
2	5280	9	1	333	1	5500.0, 5721.0, 5281.0, 5667.0, 5433.0, 5595.0, 5313.0, 5452.0, 5317.0, 5475.0, 5386.0, 5614.0, 5357.0, 5618.0, 5662.0, 5484.0, 5330.0, 5629.0, 5657.0, 5519.0, 5418.0, 5638.0, 5516.0, 5419.0, 5711.0, 5389.0, 5607.0, 5693.0, 5597.0, 5259.0, 5431.0, 5550.0, 5659.0, 5325.0, 5302.0, 5393.0, 5722.0, 5396.0, 5456.0, 5480.0, 5429.0, 5331.0, 5518.0, 5552.0, 5501.0, 5478.0, 5505.0, 5700.0, 5566.0, 5541.0, 5559.0, 5494.0, 5548.0, 5253.0, 5645.0, 5582.0, 5557.0, 5524.0, 5676.0, 5473.0, 5273.0, 5621.0, 5580.0, 5399.0, 5610.0, 5482.0, 5682.0, 5347.0, 5611.0, 5670.0, 5553.0, 5523.0, 5328.0, 5609.0, 5675.0, 5506.0, 5368.0, 5613.0, 5406.0, 5544.0, 5537.0, 5285.0, 5412.0, 5397.0, 5512.0, 5470.0, 5322.0, 5549.0, 5546.0, 5496.0, 5488.0, 5266.0, 5290.0, 5417.0, 5601.0, 5606.0, 5297.0, 5270.0, 5679.0, 5416.0 (number of hits: 8)
3	5280	9	1	333	1	5686.0, 5320.0, 5609.0, 5465.0, 5256.0, 5435.0, 5669.0, 5412.0, 5387.0, 5547.0, 5346.0, 5353.0, 5585.0, 5281.0, 5715.0, 5617.0, 5287.0, 5584.0, 5469.0, 5332.0, 5302.0, 5658.0, 5478.0, 5571.0, 5679.0, 5605.0, 5548.0, 5253.0, 5638.0, 5550.0, 5531.0, 5369.0, 5330.0, 5514.0, 5691.0, 5372.0, 5575.0, 5417.0, 5456.0, 5309.0, 5265.0, 5308.0, 5453.0, 5593.0, 5301.0, 5295.0, 5608.0, 5542.0, 5341.0, 5405.0, 5428.0, 5483.0, 5381.0, 5396.0, 5714.0, 5269.0, 5641.0, 5366.0, 5521.0, 5263.0, 5694.0, 5549.0, 5657.0, 5541.0, 5297.0,

						5704.0, 5632.0, 5306.0, 5416.0, 5702.0, 5556.0, 5458.0, 5340.0, 5624.0, 5564.0, 5388.0, 5706.0, 5386.0, 5615.0, 5299.0, 5698.0, 5688.0, 5426.0, 5324.0, 5616.0, 5258.0, 5347.0, 5509.0, 5582.0, 5316.0, 5610.0, 5389.0, 5687.0, 5338.0, 5392.0, 5551.0, 5327.0, 5612.0, 5274.0, 5326.0 (number of hits: 13)
4	5280	9	1	333	1	5592.0, 5387.0, 5511.0, 5381.0, 5516.0, 5317.0, 5383.0, 5478.0, 5443.0, 5547.0, 5393.0, 5517.0, 5636.0, 5384.0, 5371.0, 5376.0, 5452.0, 5536.0, 5397.0, 5570.0, 5396.0, 5537.0, 5723.0, 5504.0, 5301.0, 5467.0, 5263.0, 5485.0, 5454.0, 5718.0, 5686.0, 5474.0, 5400.0, 5428.0, 5267.0, 5390.0, 5329.0, 5705.0, 5664.0, 5695.0, 5607.0, 5388.0, 5302.0, 5433.0, 5647.0, 5411.0, 5291.0, 5391.0, 5499.0, 5563.0, 5261.0, 5287.0, 5657.0, 5529.0, 5422.0, 5460.0, 5345.0, 5585.0, 5442.0, 5576.0, 5554.0, 5421.0, 5477.0, 5509.0, 5694.0, 5260.0, 5688.0, 5327.0, 5635.0, 5646.0, 5259.0, 5596.0, 5618.0, 5380.0, 5507.0, 5611.0, 5710.0, 5321.0, 5353.0, 5468.0, 5693.0, 5549.0, 5574.0, 5404.0, 5486.0, 5363.0, 5441.0, 5587.0, 5416.0, 5256.0, 5415.0, 5316.0, 5555.0, 5318.0, 5544.0, 5696.0, 5335.0, 5522.0, 5370.0, 5492.0 (number of hits: 9)
5	5280	9	1	333	1	5683.0, 5434.0, 5658.0, 5443.0, 5626.0, 5505.0, 5447.0, 5554.0, 5663.0, 5483.0, 5286.0, 5623.0, 5455.0, 5555.0, 5535.0, 5435.0, 5343.0, 5413.0, 5573.0, 5636.0, 5544.0, 5437.0, 5284.0, 5314.0, 5292.0, 5546.0, 5563.0, 5415.0, 5622.0, 5699.0, 5405.0, 5404.0, 5715.0, 5386.0, 5467.0, 5524.0, 5503.0, 5495.0, 5637.0, 5337.0, 5611.0, 5497.0, 5516.0, 5619.0, 5493.0, 5255.0, 5489.0, 5671.0, 5459.0, 5643.0, 5358.0, 5341.0, 5299.0, 5632.0, 5714.0, 5530.0, 5590.0, 5354.0, 5629.0, 5264.0, 5707.0, 5517.0, 5588.0, 5297.0, 5365.0, 5585.0, 5698.0, 5374.0, 5296.0, 5601.0, 5409.0, 5433.0, 5449.0, 5680.0, 5257.0, 5509.0, 5364.0, 5504.0, 5313.0, 5548.0, 5315.0, 5366.0, 5385.0, 5351.0, 5547.0, 5431.0, 5575.0, 5446.0, 5396.0, 5293.0, 5705.0, 5723.0, 5574.0, 5679.0, 5531.0, 5484.0, 5552.0, 5576.0, 5378.0, 5429.0 (number of hits: 8)
6	5280	9	1	333	1	5390.0, 5314.0, 5705.0, 5594.0, 5599.0, 5620.0, 5277.0, 5636.0, 5642.0, 5301.0, 5553.0, 5498.0, 5416.0, 5422.0, 5375.0, 5613.0, 5718.0, 5556.0, 5571.0, 5374.0, 5358.0, 5367.0, 5338.0, 5546.0, 5427.0, 5404.0, 5550.0, 5361.0, 5562.0, 5673.0, 5321.0, 5254.0, 5286.0, 5510.0, 5349.0, 5394.0, 5499.0, 5612.0, 5373.0, 5681.0, 5388.0, 5282.0, 5473.0, 5517.0, 5463.0, 5678.0, 5597.0, 5545.0, 5492.0, 5540.0,

						5397.0, 5429.0, 5380.0, 5570.0, 5533.0, 5518.0, 5677.0, 5324.0, 5714.0, 5287.0, 5382.0, 5415.0, 5554.0, 5639.0, 5284.0, 5408.0, 5450.0, 5667.0, 5482.0, 5591.0, 5507.0, 5351.0, 5505.0, 5622.0, 5298.0, 5578.0, 5720.0, 5307.0, 5629.0, 5655.0, 5582.0, 5538.0, 5641.0, 5291.0, 5665.0, 5369.0, 5513.0, 5496.0, 5483.0, 5621.0, 5651.0, 5638.0, 5685.0, 5372.0, 5551.0, 5423.0, 5256.0, 5379.0, 5568.0, 5368.0 (number of hits: 7)
7	5280	9	1	333	1	5628.0, 5509.0, 5250.0, 5323.0, 5347.0, 5556.0, 5604.0, 5654.0, 5555.0, 5659.0, 5469.0, 5254.0, 5679.0, 5315.0, 5582.0, 5272.0, 5598.0, 5650.0, 5468.0, 5380.0, 5388.0, 5407.0, 5455.0, 5635.0, 5599.0, 5398.0, 5637.0, 5465.0, 5406.0, 5348.0, 5405.0, 5397.0, 5577.0, 5588.0, 5655.0, 5319.0, 5578.0, 5614.0, 5474.0, 5694.0, 5368.0, 5664.0, 5448.0, 5325.0, 5436.0, 5551.0, 5334.0, 5302.0, 5559.0, 5504.0, 5464.0, 5453.0, 5338.0, 5621.0, 5624.0, 5671.0, 5652.0, 5310.0, 5292.0, 5656.0, 5638.0, 5686.0, 5435.0, 5487.0, 5678.0, 5713.0, 5545.0, 5689.0, 5480.0, 5667.0, 5618.0, 5673.0, 5573.0, 5356.0, 5517.0, 5394.0, 5523.0, 5362.0, 5278.0, 5442.0, 5672.0, 5617.0, 5579.0, 5419.0, 5481.0, 5303.0, 5439.0, 5355.0, 5502.0, 5609.0, 5703.0, 5339.0, 5721.0, 5585.0, 5632.0, 5370.0, 5269.0, 5587.0, 5533.0, 5615.0 (number of hits: 8)
8	5280	9	1	333	1	5721.0, 5502.0, 5417.0, 5715.0, 5685.0, 5309.0, 5402.0, 5323.0, 5579.0, 5582.0, 5564.0, 5422.0, 5395.0, 5342.0, 5499.0, 5530.0, 5666.0, 5667.0, 5313.0, 5596.0, 5618.0, 5543.0, 5386.0, 5577.0, 5576.0, 5610.0, 5253.0, 5341.0, 5480.0, 5458.0, 5428.0, 5450.0, 5487.0, 5414.0, 5702.0, 5639.0, 5373.0, 5711.0, 5374.0, 5396.0, 5464.0, 5289.0, 5686.0, 5631.0, 5454.0, 5370.0, 5293.0, 5383.0, 5449.0, 5602.0, 5660.0, 5572.0, 5335.0, 5474.0, 5654.0, 5597.0, 5496.0, 5625.0, 5433.0, 5476.0, 5284.0, 5397.0, 5250.0, 5546.0, 5264.0, 5326.0, 5538.0, 5372.0, 5330.0, 5607.0, 5305.0, 5424.0, 5550.0, 5459.0, 5259.0, 5566.0, 5339.0, 5391.0, 5277.0, 5500.0, 5718.0, 5684.0, 5561.0, 5334.0, 5653.0, 5318.0, 5308.0, 5541.0, 5311.0, 5589.0, 5406.0, 5636.0, 5336.0, 5510.0, 5630.0, 5501.0, 5352.0, 5570.0, 5525.0, 5619.0 (number of hits: 9)
9	5280	9	1	333	1	5446.0, 5323.0, 5643.0, 5640.0, 5518.0, 5356.0, 5387.0, 5378.0, 5535.0, 5319.0, 5609.0, 5512.0, 5256.0, 5514.0, 5488.0, 5467.0, 5480.0, 5463.0, 5432.0, 5353.0, 5545.0, 5559.0, 5705.0, 5388.0, 5370.0, 5415.0, 5663.0, 5471.0, 5584.0, 5479.0, 5711.0, 5302.0, 5258.0, 5470.0, 5346.0,

						5255.0, 5495.0, 5293.0, 5469.0, 5474.0, 5349.0, 5547.0, 5552.0, 5402.0, 5379.0, 5292.0, 5650.0, 5438.0, 5523.0, 5342.0, 5596.0, 5571.0, 5461.0, 5625.0, 5361.0, 5359.0, 5644.0, 5275.0, 5613.0, 5718.0, 5279.0, 5309.0, 5555.0, 5311.0, 5403.0, 5558.0, 5452.0, 5522.0, 5433.0, 5568.0, 5498.0, 5507.0, 5411.0, 5646.0, 5380.0, 5278.0, 5350.0, 5615.0, 5532.0, 5448.0, 5494.0, 5437.0, 5365.0, 5683.0, 5689.0, 5306.0, 5289.0, 5619.0, 5407.0, 5511.0, 5652.0, 5308.0, 5696.0, 5605.0, 5645.0, 5266.0, 5382.0, 5581.0, 5268.0, 5606.0 (number of hits: 9)
10	5280	9	1	333	1	5438.0, 5631.0, 5650.0, 5599.0, 5253.0, 5677.0, 5645.0, 5644.0, 5584.0, 5519.0, 5655.0, 5375.0, 5466.0, 5415.0, 5592.0, 5366.0, 5568.0, 5626.0, 5693.0, 5328.0, 5690.0, 5422.0, 5359.0, 5280.0, 5405.0, 5331.0, 5417.0, 5313.0, 5252.0, 5671.0, 5540.0, 5499.0, 5579.0, 5408.0, 5304.0, 5665.0, 5576.0, 5653.0, 5342.0, 5646.0, 5583.0, 5694.0, 5640.0, 5363.0, 5670.0, 5490.0, 5522.0, 5505.0, 5649.0, 5700.0, 5263.0, 5582.0, 5611.0, 5441.0, 5322.0, 5262.0, 5281.0, 5496.0, 5717.0, 5296.0, 5630.0, 5480.0, 5285.0, 5483.0, 5625.0, 5718.0, 5420.0, 5430.0, 5564.0, 5528.0, 5360.0, 5557.0, 5542.0, 5523.0, 5618.0, 5643.0, 5597.0, 5436.0, 5474.0, 5414.0, 5589.0, 5255.0, 5577.0, 5284.0, 5444.0, 5327.0, 5293.0, 5610.0, 5647.0, 5555.0, 5347.0, 5720.0, 5703.0, 5268.0, 5312.0, 5543.0, 5514.0, 5492.0, 5612.0, 5527.0 (number of hits: 3)
11	5280	9	1	333	1	5362.0, 5670.0, 5526.0, 5549.0, 5514.0, 5646.0, 5340.0, 5439.0, 5660.0, 5555.0, 5694.0, 5502.0, 5352.0, 5523.0, 5559.0, 5699.0, 5444.0, 5478.0, 5552.0, 5517.0, 5457.0, 5592.0, 5322.0, 5671.0, 5477.0, 5551.0, 5524.0, 5463.0, 5648.0, 5720.0, 5304.0, 5325.0, 5394.0, 5379.0, 5580.0, 5610.0, 5545.0, 5591.0, 5566.0, 5446.0, 5365.0, 5460.0, 5724.0, 5252.0, 5431.0, 5508.0, 5396.0, 5579.0, 5654.0, 5412.0, 5333.0, 5323.0, 5316.0, 5650.0, 5492.0, 5308.0, 5282.0, 5471.0, 5253.0, 5491.0, 5366.0, 5329.0, 5657.0, 5369.0, 5680.0, 5350.0, 5691.0, 5255.0, 5682.0, 5696.0, 5475.0, 5385.0, 5536.0, 5710.0, 5251.0, 5348.0, 5432.0, 5618.0, 5572.0, 5395.0, 5561.0, 5719.0, 5616.0, 5548.0, 5302.0, 5473.0, 5712.0, 5626.0, 5557.0, 5270.0, 5384.0, 5278.0, 5706.0, 5342.0, 5498.0, 5534.0, 5320.0, 5378.0, 5678.0, 5306.0 (number of hits: 4)
12	5280	9	1	333	1	5578.0, 5551.0, 5422.0, 5628.0, 5273.0, 5285.0, 5586.0, 5719.0, 5664.0, 5400.0, 5724.0, 5560.0, 5622.0, 5310.0, 5693.0, 5403.0, 5677.0, 5275.0, 5647.0, 5439.0,

						5315.0, 5612.0, 5448.0, 5328.0, 5529.0, 5554.0, 5701.0, 5449.0, 5540.0, 5621.0, 5591.0, 5600.0, 5610.0, 5346.0, 5292.0, 5431.0, 5306.0, 5462.0, 5557.0, 5467.0, 5547.0, 5356.0, 5274.0, 5533.0, 5440.0, 5460.0, 5423.0, 5604.0, 5644.0, 5348.0, 5381.0, 5706.0, 5570.0, 5598.0, 5681.0, 5358.0, 5428.0, 5330.0, 5710.0, 5545.0, 5641.0, 5345.0, 5261.0, 5496.0, 5301.0, 5365.0, 5494.0, 5402.0, 5703.0, 5337.0, 5263.0, 5649.0, 5531.0, 5571.0, 5340.0, 5637.0, 5705.0, 5316.0, 5369.0, 5317.0, 5652.0, 5493.0, 5674.0, 5464.0, 5270.0, 5482.0, 5376.0, 5505.0, 5323.0, 5481.0, 5548.0, 5717.0, 5640.0, 5354.0, 5590.0, 5314.0, 5697.0, 5508.0, 5329.0, 5281.0 (number of hits: 3)
13	5280	9	1	333	1	5388.0, 5536.0, 5651.0, 5480.0, 5263.0, 5702.0, 5703.0, 5544.0, 5269.0, 5494.0, 5378.0, 5307.0, 5705.0, 5483.0, 5364.0, 5425.0, 5653.0, 5381.0, 5508.0, 5719.0, 5593.0, 5441.0, 5404.0, 5393.0, 5355.0, 5535.0, 5298.0, 5356.0, 5540.0, 5614.0, 5468.0, 5337.0, 5322.0, 5336.0, 5672.0, 5523.0, 5551.0, 5452.0, 5624.0, 5513.0, 5275.0, 5375.0, 5321.0, 5491.0, 5481.0, 5532.0, 5472.0, 5391.0, 5358.0, 5706.0, 5581.0, 5627.0, 5585.0, 5502.0, 5252.0, 5709.0, 5561.0, 5440.0, 5488.0, 5710.0, 5596.0, 5445.0, 5426.0, 5701.0, 5334.0, 5318.0, 5587.0, 5634.0, 5691.0, 5688.0, 5722.0, 5282.0, 5279.0, 5489.0, 5572.0, 5699.0, 5286.0, 5649.0, 5478.0, 5589.0, 5444.0, 5549.0, 5399.0, 5518.0, 5550.0, 5721.0, 5573.0, 5681.0, 5619.0, 5422.0, 5626.0, 5486.0, 5400.0, 5662.0, 5578.0, 5718.0, 5371.0, 5418.0, 5505.0, 5696.0 (number of hits: 2)
14	5280	9	1	333	1	5412.0, 5656.0, 5310.0, 5481.0, 5375.0, 5567.0, 5712.0, 5261.0, 5439.0, 5580.0, 5708.0, 5663.0, 5440.0, 5673.0, 5262.0, 5706.0, 5332.0, 5560.0, 5277.0, 5346.0, 5684.0, 5625.0, 5368.0, 5286.0, 5427.0, 5609.0, 5423.0, 5270.0, 5367.0, 5289.0, 5350.0, 5467.0, 5309.0, 5679.0, 5550.0, 5426.0, 5635.0, 5526.0, 5340.0, 5474.0, 5671.0, 5598.0, 5471.0, 5335.0, 5596.0, 5604.0, 5472.0, 5555.0, 5563.0, 5529.0, 5313.0, 5512.0, 5351.0, 5505.0, 5390.0, 5329.0, 5597.0, 5434.0, 5451.0, 5458.0, 5276.0, 5253.0, 5711.0, 5416.0, 5511.0, 5581.0, 5269.0, 5627.0, 5508.0, 5498.0, 5540.0, 5406.0, 5316.0, 5365.0, 5610.0, 5515.0, 5413.0, 5371.0, 5345.0, 5664.0, 5645.0, 5479.0, 5525.0, 5595.0, 5520.0, 5328.0, 5366.0, 5473.0, 5431.0, 5690.0, 5256.0, 5657.0, 5718.0, 5514.0, 5617.0, 5385.0, 5636.0, 5424.0, 5658.0, 5333.0 (number of hits: 1)
15	5280	9	1	333	1	5627.0, 5319.0, 5305.0, 5353.0, 5389.0,

						5482.0, 5610.0, 5498.0, 5332.0, 5324.0, 5544.0, 5617.0, 5672.0, 5604.0, 5261.0, 5344.0, 5515.0, 5669.0, 5288.0, 5661.0, 5506.0, 5440.0, 5321.0, 5283.0, 5525.0, 5620.0, 5461.0, 5266.0, 5600.0, 5497.0, 5686.0, 5445.0, 5424.0, 5381.0, 5529.0, 5687.0, 5599.0, 5357.0, 5555.0, 5510.0, 5655.0, 5448.0, 5275.0, 5444.0, 5519.0, 5578.0, 5478.0, 5402.0, 5417.0, 5351.0, 5711.0, 5721.0, 5562.0, 5346.0, 5300.0, 5676.0, 5557.0, 5255.0, 5391.0, 5273.0, 5328.0, 5292.0, 5612.0, 5539.0, 5552.0, 5616.0, 5369.0, 5703.0, 5287.0, 5495.0, 5605.0, 5309.0, 5619.0, 5518.0, 5484.0, 5542.0, 5490.0, 5308.0, 5425.0, 5483.0, 5315.0, 5642.0, 5277.0, 5453.0, 5422.0, 5652.0, 5265.0, 5312.0, 5540.0, 5304.0, 5317.0, 5534.0, 5602.0, 5463.0, 5592.0, 5696.0, 5723.0, 5409.0, 5523.0, 5630.0 (number of hits: 6)
16	5280	9	1	333	1	5683.0, 5393.0, 5713.0, 5567.0, 5600.0, 5346.0, 5298.0, 5528.0, 5430.0, 5257.0, 5495.0, 5512.0, 5440.0, 5449.0, 5538.0, 5501.0, 5340.0, 5578.0, 5475.0, 5482.0, 5700.0, 5631.0, 5682.0, 5433.0, 5258.0, 5505.0, 5608.0, 5703.0, 5381.0, 5485.0, 5435.0, 5295.0, 5330.0, 5347.0, 5286.0, 5500.0, 5312.0, 5659.0, 5299.0, 5276.0, 5582.0, 5266.0, 5367.0, 5543.0, 5486.0, 5380.0, 5368.0, 5607.0, 5609.0, 5280.0, 5618.0, 5305.0, 5524.0, 5522.0, 5626.0, 5297.0, 5616.0, 5325.0, 5598.0, 5595.0, 5667.0, 5462.0, 5655.0, 5425.0, 5552.0, 5315.0, 5585.0, 5563.0, 5265.0, 5412.0, 5413.0, 5723.0, 5401.0, 5274.0, 5351.0, 5663.0, 5590.0, 5403.0, 5388.0, 5343.0, 5620.0, 5604.0, 5287.0, 5385.0, 5431.0, 5415.0, 5675.0, 5493.0, 5591.0, 5535.0, 5656.0, 5715.0, 5339.0, 5476.0, 5404.0, 5614.0, 5464.0, 5597.0, 5426.0, 5473.0 (number of hits: 5)
17	5280	9	1	333	1	5290.0, 5346.0, 5670.0, 5279.0, 5719.0, 5640.0, 5370.0, 5607.0, 5625.0, 5574.0, 5458.0, 5337.0, 5403.0, 5690.0, 5675.0, 5609.0, 5485.0, 5504.0, 5434.0, 5257.0, 5487.0, 5409.0, 5697.0, 5637.0, 5621.0, 5696.0, 5342.0, 5642.0, 5596.0, 5573.0, 5471.0, 5635.0, 5588.0, 5522.0, 5394.0, 5415.0, 5421.0, 5445.0, 5259.0, 5289.0, 5701.0, 5608.0, 5381.0, 5577.0, 5470.0, 5523.0, 5636.0, 5536.0, 5436.0, 5575.0, 5273.0, 5264.0, 5493.0, 5297.0, 5317.0, 5713.0, 5538.0, 5606.0, 5496.0, 5700.0, 5665.0, 5256.0, 5397.0, 5602.0, 5428.0, 5567.0, 5494.0, 5595.0, 5351.0, 5266.0, 5546.0, 5631.0, 5489.0, 5406.0, 5618.0, 5316.0, 5542.0, 5605.0, 5253.0, 5683.0, 5269.0, 5357.0, 5490.0, 5437.0, 5539.0, 5304.0, 5584.0, 5603.0, 5581.0, 5724.0, 5579.0, 5388.0, 5411.0, 5617.0, 5271.0,

						5262.0, 5598.0, 5486.0, 5659.0, 5711.0 (number of hits: 3)
18	5280	9	1	333	1	5636.0, 5611.0, 5651.0, 5709.0, 5479.0, 5354.0, 5307.0, 5570.0, 5472.0, 5489.0, 5440.0, 5531.0, 5398.0, 5720.0, 5561.0, 5627.0, 5283.0, 5648.0, 5586.0, 5655.0, 5612.0, 5597.0, 5470.0, 5504.0, 5696.0, 5318.0, 5557.0, 5492.0, 5690.0, 5356.0, 5707.0, 5698.0, 5278.0, 5254.0, 5295.0, 5517.0, 5548.0, 5511.0, 5595.0, 5362.0, 5670.0, 5326.0, 5337.0, 5654.0, 5610.0, 5355.0, 5359.0, 5383.0, 5327.0, 5599.0, 5291.0, 5338.0, 5381.0, 5433.0, 5444.0, 5544.0, 5414.0, 5409.0, 5300.0, 5306.0, 5582.0, 5493.0, 5321.0, 5484.0, 5320.0, 5578.0, 5309.0, 5301.0, 5294.0, 5360.0, 5349.0, 5316.0, 5455.0, 5374.0, 5282.0, 5441.0, 5590.0, 5671.0, 5253.0, 5583.0, 5711.0, 5350.0, 5348.0, 5393.0, 5564.0, 5534.0, 5682.0, 5310.0, 5693.0, 5401.0, 5634.0, 5678.0, 5618.0, 5526.0, 5551.0, 5592.0, 5501.0, 5314.0, 5413.0, 5495.0 (number of hits: 8)
19	5280	9	1	333	1	5555.0, 5294.0, 5612.0, 5640.0, 5613.0, 5465.0, 5506.0, 5298.0, 5674.0, 5403.0, 5534.0, 5366.0, 5686.0, 5521.0, 5476.0, 5419.0, 5620.0, 5413.0, 5442.0, 5397.0, 5354.0, 5367.0, 5591.0, 5563.0, 5641.0, 5451.0, 5665.0, 5538.0, 5543.0, 5372.0, 5542.0, 5365.0, 5679.0, 5539.0, 5626.0, 5416.0, 5308.0, 5645.0, 5651.0, 5353.0, 5378.0, 5711.0, 5508.0, 5577.0, 5439.0, 5450.0, 5548.0, 5323.0, 5351.0, 5430.0, 5709.0, 5418.0, 5409.0, 5622.0, 5414.0, 5519.0, 5316.0, 5352.0, 5611.0, 5395.0, 5475.0, 5621.0, 5284.0, 5504.0, 5703.0, 5438.0, 5310.0, 5677.0, 5373.0, 5643.0, 5685.0, 5290.0, 5584.0, 5278.0, 5531.0, 5559.0, 5658.0, 5444.0, 5445.0, 5480.0, 5592.0, 5386.0, 5670.0, 5319.0, 5273.0, 5567.0, 5463.0, 5269.0, 5708.0, 5272.0, 5406.0, 5698.0, 5299.0, 5583.0, 5312.0, 5722.0, 5549.0, 5453.0, 5408.0, 5720.0 (number of hits: 5)
20	5280	9	1	333	1	5505.0, 5453.0, 5508.0, 5665.0, 5493.0, 5250.0, 5696.0, 5677.0, 5256.0, 5302.0, 5690.0, 5355.0, 5334.0, 5264.0, 5406.0, 5708.0, 5522.0, 5379.0, 5374.0, 5621.0, 5297.0, 5580.0, 5657.0, 5553.0, 5440.0, 5289.0, 5591.0, 5402.0, 5676.0, 5668.0, 5438.0, 5662.0, 5589.0, 5715.0, 5577.0, 5280.0, 5463.0, 5367.0, 5437.0, 5606.0, 5295.0, 5473.0, 5511.0, 5558.0, 5458.0, 5562.0, 5670.0, 5711.0, 5605.0, 5266.0, 5360.0, 5332.0, 5465.0, 5305.0, 5303.0, 5576.0, 5431.0, 5566.0, 5674.0, 5598.0, 5253.0, 5341.0, 5340.0, 5579.0, 5607.0, 5644.0, 5399.0, 5330.0, 5496.0, 5322.0, 5494.0, 5685.0, 5542.0, 5358.0, 5339.0, 5415.0, 5703.0, 5441.0, 5345.0, 5688.0,

						5320.0, 5364.0, 5661.0, 5405.0, 5545.0, 5551.0, 5326.0, 5325.0, 5439.0, 5461.0, 5617.0, 5385.0, 5618.0, 5641.0, 5489.0, 5498.0, 5283.0, 5636.0, 5414.0, 5590.0 (number of hits: 5)
21	5280	9	1	333	1	5582.0, 5464.0, 5644.0, 5568.0, 5393.0, 5463.0, 5721.0, 5290.0, 5655.0, 5690.0, 5635.0, 5429.0, 5288.0, 5422.0, 5505.0, 5256.0, 5650.0, 5449.0, 5386.0, 5700.0, 5588.0, 5689.0, 5300.0, 5680.0, 5365.0, 5356.0, 5594.0, 5692.0, 5512.0, 5475.0, 5473.0, 5419.0, 5471.0, 5389.0, 5627.0, 5720.0, 5683.0, 5592.0, 5324.0, 5455.0, 5283.0, 5556.0, 5303.0, 5708.0, 5453.0, 5660.0, 5264.0, 5269.0, 5654.0, 5561.0, 5476.0, 5446.0, 5719.0, 5274.0, 5285.0, 5438.0, 5293.0, 5332.0, 5611.0, 5294.0, 5308.0, 5629.0, 5338.0, 5595.0, 5333.0, 5623.0, 5659.0, 5337.0, 5589.0, 5696.0, 5420.0, 5668.0, 5514.0, 5354.0, 5347.0, 5496.0, 5532.0, 5560.0, 5710.0, 5447.0, 5545.0, 5326.0, 5369.0, 5276.0, 5479.0, 5263.0, 5632.0, 5513.0, 5674.0, 5352.0, 5652.0, 5339.0, 5366.0, 5684.0, 5396.0, 5598.0, 5425.0, 5346.0, 5566.0, 5619.0 (number of hits: 6)
22	5280	9	1	333	1	5639.0, 5521.0, 5341.0, 5483.0, 5339.0, 5439.0, 5573.0, 5566.0, 5293.0, 5413.0, 5707.0, 5615.0, 5438.0, 5536.0, 5345.0, 5560.0, 5705.0, 5592.0, 5476.0, 5436.0, 5275.0, 5497.0, 5623.0, 5272.0, 5637.0, 5607.0, 5717.0, 5417.0, 5700.0, 5316.0, 5400.0, 5559.0, 5685.0, 5588.0, 5513.0, 5392.0, 5624.0, 5450.0, 5723.0, 5562.0, 5555.0, 5712.0, 5397.0, 5462.0, 5453.0, 5277.0, 5256.0, 5314.0, 5357.0, 5464.0, 5569.0, 5693.0, 5541.0, 5385.0, 5602.0, 5261.0, 5312.0, 5403.0, 5626.0, 5554.0, 5718.0, 5479.0, 5550.0, 5289.0, 5495.0, 5330.0, 5309.0, 5402.0, 5367.0, 5565.0, 5381.0, 5532.0, 5545.0, 5469.0, 5667.0, 5350.0, 5579.0, 5488.0, 5590.0, 5596.0, 5429.0, 5630.0, 5465.0, 5313.0, 5401.0, 5478.0, 5674.0, 5677.0, 5344.0, 5271.0, 5408.0, 5621.0, 5315.0, 5258.0, 5553.0, 5486.0, 5416.0, 5576.0, 5266.0, 5568.0 (number of hits: 2)
23	5280	9	1	333	1	5710.0, 5696.0, 5644.0, 5609.0, 5400.0, 5630.0, 5553.0, 5467.0, 5598.0, 5441.0, 5404.0, 5446.0, 5464.0, 5369.0, 5304.0, 5498.0, 5252.0, 5685.0, 5389.0, 5634.0, 5439.0, 5562.0, 5419.0, 5286.0, 5639.0, 5603.0, 5296.0, 5688.0, 5492.0, 5327.0, 5306.0, 5407.0, 5514.0, 5262.0, 5318.0, 5691.0, 5481.0, 5274.0, 5675.0, 5478.0, 5587.0, 5431.0, 5251.0, 5399.0, 5348.0, 5365.0, 5501.0, 5585.0, 5457.0, 5281.0, 5275.0, 5329.0, 5331.0, 5657.0, 5293.0, 5601.0, 5502.0, 5599.0, 5689.0, 5336.0, 5539.0, 5466.0, 5647.0, 5488.0, 5717.0,

						5700.0, 5624.0, 5316.0, 5669.0, 5668.0, 5653.0, 5546.0, 5576.0, 5521.0, 5597.0, 5259.0, 5625.0, 5701.0, 5715.0, 5424.0, 5499.0, 5556.0, 5505.0, 5623.0, 5645.0, 5302.0, 5720.0, 5438.0, 5279.0, 5611.0, 5629.0, 5357.0, 5519.0, 5352.0, 5723.0, 5379.0, 5460.0, 5651.0, 5490.0, 5495.0 (number of hits: 5)
24	5280	9	1	333	1	5530.0, 5328.0, 5506.0, 5584.0, 5671.0, 5425.0, 5615.0, 5523.0, 5296.0, 5603.0, 5431.0, 5414.0, 5385.0, 5558.0, 5424.0, 5494.0, 5335.0, 5438.0, 5324.0, 5534.0, 5465.0, 5346.0, 5312.0, 5705.0, 5386.0, 5707.0, 5404.0, 5272.0, 5490.0, 5271.0, 5564.0, 5594.0, 5592.0, 5410.0, 5347.0, 5405.0, 5419.0, 5653.0, 5398.0, 5268.0, 5554.0, 5549.0, 5349.0, 5285.0, 5537.0, 5264.0, 5716.0, 5457.0, 5345.0, 5684.0, 5517.0, 5452.0, 5351.0, 5283.0, 5509.0, 5402.0, 5685.0, 5666.0, 5596.0, 5307.0, 5639.0, 5505.0, 5704.0, 5699.0, 5291.0, 5496.0, 5626.0, 5674.0, 5423.0, 5443.0, 5578.0, 5393.0, 5575.0, 5388.0, 5657.0, 5652.0, 5306.0, 5399.0, 5677.0, 5565.0, 5525.0, 5275.0, 5711.0, 5629.0, 5569.0, 5254.0, 5417.0, 5498.0, 5559.0, 5721.0, 5469.0, 5287.0, 5281.0, 5356.0, 5561.0, 5379.0, 5330.0, 5276.0, 5590.0, 5717.0 (number of hits: 4)
25	5280	9	1	333	1	5366.0, 5255.0, 5490.0, 5500.0, 5395.0, 5456.0, 5400.0, 5681.0, 5332.0, 5713.0, 5347.0, 5258.0, 5513.0, 5336.0, 5399.0, 5365.0, 5664.0, 5281.0, 5402.0, 5266.0, 5314.0, 5485.0, 5597.0, 5427.0, 5506.0, 5621.0, 5507.0, 5592.0, 5464.0, 5509.0, 5690.0, 5586.0, 5288.0, 5682.0, 5309.0, 5278.0, 5540.0, 5313.0, 5648.0, 5430.0, 5408.0, 5494.0, 5703.0, 5361.0, 5639.0, 5491.0, 5340.0, 5668.0, 5551.0, 5460.0, 5372.0, 5378.0, 5423.0, 5289.0, 5598.0, 5627.0, 5286.0, 5437.0, 5706.0, 5254.0, 5578.0, 5553.0, 5373.0, 5406.0, 5711.0, 5292.0, 5545.0, 5417.0, 5701.0, 5602.0, 5679.0, 5433.0, 5274.0, 5691.0, 5424.0, 5390.0, 5461.0, 5440.0, 5285.0, 5652.0, 5398.0, 5328.0, 5641.0, 5501.0, 5453.0, 5550.0, 5715.0, 5685.0, 5635.0, 5283.0, 5488.0, 5670.0, 5375.0, 5454.0, 5591.0, 5684.0, 5616.0, 5480.0, 5590.0, 5325.0 (number of hits: 2)
26	5280	9	1	333	1	5669.0, 5453.0, 5342.0, 5308.0, 5558.0, 5526.0, 5322.0, 5542.0, 5522.0, 5676.0, 5309.0, 5473.0, 5413.0, 5409.0, 5432.0, 5700.0, 5320.0, 5550.0, 5706.0, 5714.0, 5386.0, 5379.0, 5546.0, 5707.0, 5468.0, 5352.0, 5252.0, 5712.0, 5302.0, 5633.0, 5625.0, 5469.0, 5449.0, 5255.0, 5256.0, 5561.0, 5306.0, 5679.0, 5296.0, 5345.0, 5580.0, 5301.0, 5527.0, 5307.0, 5339.0, 5638.0, 5286.0, 5369.0, 5566.0, 5667.0,

						5312.0, 5547.0, 5622.0, 5699.0, 5334.0, 5397.0, 5325.0, 5648.0, 5419.0, 5357.0, 5672.0, 5584.0, 5698.0, 5272.0, 5479.0, 5694.0, 5523.0, 5721.0, 5684.0, 5417.0, 5365.0, 5287.0, 5668.0, 5708.0, 5649.0, 5609.0, 5560.0, 5381.0, 5720.0, 5285.0, 5617.0, 5346.0, 5401.0, 5472.0, 5355.0, 5673.0, 5630.0, 5553.0, 5423.0, 5402.0, 5704.0, 5579.0, 5314.0, 5556.0, 5654.0, 5498.0, 5338.0, 5661.0, 5267.0, 5497.0 (number of hits: 7)
27	5280	9	1	333	1	5572.0, 5644.0, 5313.0, 5430.0, 5658.0, 5388.0, 5585.0, 5271.0, 5663.0, 5545.0, 5650.0, 5295.0, 5291.0, 5677.0, 5389.0, 5458.0, 5611.0, 5273.0, 5624.0, 5329.0, 5710.0, 5355.0, 5399.0, 5272.0, 5454.0, 5442.0, 5353.0, 5348.0, 5275.0, 5690.0, 5330.0, 5543.0, 5279.0, 5460.0, 5554.0, 5321.0, 5489.0, 5443.0, 5366.0, 5416.0, 5708.0, 5433.0, 5560.0, 5525.0, 5424.0, 5524.0, 5361.0, 5459.0, 5576.0, 5334.0, 5335.0, 5474.0, 5646.0, 5696.0, 5689.0, 5378.0, 5404.0, 5423.0, 5278.0, 5288.0, 5569.0, 5374.0, 5401.0, 5256.0, 5492.0, 5605.0, 5351.0, 5632.0, 5573.0, 5640.0, 5382.0, 5607.0, 5621.0, 5437.0, 5372.0, 5370.0, 5267.0, 5257.0, 5699.0, 5648.0, 5599.0, 5316.0, 5394.0, 5652.0, 5488.0, 5390.0, 5299.0, 5547.0, 5563.0, 5490.0, 5413.0, 5414.0, 5609.0, 5343.0, 5721.0, 5501.0, 5386.0, 5439.0, 5292.0, 5504.0 (number of hits: 4)
28	5280	9	1	333	1	5384.0, 5311.0, 5457.0, 5349.0, 5405.0, 5703.0, 5530.0, 5544.0, 5693.0, 5370.0, 5651.0, 5521.0, 5305.0, 5654.0, 5500.0, 5625.0, 5606.0, 5614.0, 5368.0, 5268.0, 5497.0, 5576.0, 5464.0, 5427.0, 5354.0, 5588.0, 5309.0, 5261.0, 5596.0, 5426.0, 5713.0, 5562.0, 5304.0, 5350.0, 5372.0, 5721.0, 5683.0, 5322.0, 5266.0, 5258.0, 5626.0, 5534.0, 5524.0, 5550.0, 5595.0, 5276.0, 5378.0, 5430.0, 5706.0, 5627.0, 5470.0, 5494.0, 5461.0, 5587.0, 5503.0, 5463.0, 5539.0, 5330.0, 5577.0, 5269.0, 5502.0, 5358.0, 5611.0, 5541.0, 5712.0, 5572.0, 5425.0, 5598.0, 5292.0, 5290.0, 5298.0, 5628.0, 5360.0, 5343.0, 5682.0, 5287.0, 5352.0, 5437.0, 5313.0, 5618.0, 5371.0, 5460.0, 5364.0, 5690.0, 5272.0, 5468.0, 5573.0, 5413.0, 5520.0, 5409.0, 5635.0, 5701.0, 5686.0, 5661.0, 5549.0, 5476.0, 5351.0, 5359.0, 5667.0, 5256.0 (number of hits: 6)
29	5280	9	1	333	1	5713.0, 5560.0, 5553.0, 5604.0, 5447.0, 5439.0, 5361.0, 5484.0, 5300.0, 5384.0, 5497.0, 5532.0, 5359.0, 5443.0, 5594.0, 5674.0, 5343.0, 5450.0, 5630.0, 5613.0, 5567.0, 5507.0, 5707.0, 5317.0, 5354.0, 5479.0, 5420.0, 5527.0, 5537.0, 5472.0, 5572.0, 5559.0, 5253.0, 5570.0, 5723.0,

						5696.0, 5673.0, 5715.0, 5311.0, 5710.0, 5327.0, 5267.0, 5286.0, 5536.0, 5421.0, 5598.0, 5684.0, 5411.0, 5708.0, 5264.0, 5451.0, 5415.0, 5533.0, 5506.0, 5305.0, 5408.0, 5584.0, 5272.0, 5663.0, 5401.0, 5372.0, 5585.0, 5402.0, 5575.0, 5346.0, 5661.0, 5648.0, 5328.0, 5491.0, 5281.0, 5288.0, 5683.0, 5449.0, 5373.0, 5377.0, 5282.0, 5693.0, 5256.0, 5464.0, 5399.0, 5504.0, 5593.0, 5645.0, 5703.0, 5662.0, 5605.0, 5406.0, 5441.0, 5380.0, 5335.0, 5541.0, 5543.0, 5274.0, 5433.0, 5457.0, 5362.0, 5430.0, 5538.0, 5444.0, 5657.0 (number of hits: 2)
30	5280	9	1	333	1	5322.0, 5621.0, 5663.0, 5360.0, 5253.0, 5550.0, 5465.0, 5428.0, 5470.0, 5643.0, 5597.0, 5515.0, 5478.0, 5298.0, 5678.0, 5564.0, 5485.0, 5370.0, 5308.0, 5657.0, 5689.0, 5366.0, 5430.0, 5603.0, 5658.0, 5380.0, 5543.0, 5356.0, 5350.0, 5554.0, 5688.0, 5499.0, 5701.0, 5698.0, 5297.0, 5321.0, 5313.0, 5439.0, 5285.0, 5406.0, 5284.0, 5526.0, 5277.0, 5292.0, 5583.0, 5271.0, 5255.0, 5529.0, 5677.0, 5620.0, 5299.0, 5587.0, 5712.0, 5528.0, 5471.0, 5336.0, 5510.0, 5302.0, 5617.0, 5513.0, 5250.0, 5640.0, 5692.0, 5259.0, 5507.0, 5714.0, 5469.0, 5278.0, 5458.0, 5375.0, 5307.0, 5349.0, 5479.0, 5394.0, 5294.0, 5647.0, 5267.0, 5569.0, 5362.0, 5523.0, 5508.0, 5691.0, 5426.0, 5306.0, 5415.0, 5534.0, 5456.0, 5369.0, 5423.0, 5467.0, 5553.0, 5644.0, 5720.0, 5304.0, 5312.0, 5383.0, 5651.0, 5504.0, 5266.0, 5365.0 (number of hits: 10)

5580 MHz, 20 MHz Bandwidth

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

Please refer to the following statistical tables:

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

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5580	99	1	538	1
2	5580	68	1	778	1
3	5580	72	1	738	1
4	5580	57	1	938	1
5	5580	95	1	558	1
6	5580	78	1	678	1
7	5580	62	1	858	1
8	5580	63	1	838	1
9	5580	81	1	658	1
10	5580	59	1	898	1
11	5580	67	1	798	1
12	5580	89	1	598	1
13	5580	58	1	918	1
14	5580	18	1	3066	1
15	5580	65	1	818	1
16	5580	32	1	1695	1
17	5580	26	1	2059	1
18	5580	31	1	1753	1
19	5580	96	1	550	1
20	5580	18	1	3063	1
21	5580	84	1	630	1
22	5580	22	1	2506	1
23	5580	20	1	2668	1
24	5580	18	1	2993	1
25	5580	32	1	1660	1
26	5580	23	1	2391	1
27	5580	22	1	2462	1
28	5580	35	1	1538	1
29	5580	22	1	2413	1
30	5580	48	1	1102	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	4.4	175	1
2	5580	25	1	176	1
3	5580	28	5	150	1
4	5580	25	3.8	204	1
5	5580	23	2.7	191	1
6	5580	26	3.7	159	1
7	5580	26	2.8	222	1
8	5580	27	4.8	152	1
9	5580	28	4.1	196	1
10	5580	28	2.2	171	1
11	5580	24	4.8	207	1
12	5580	26	2.6	187	1
13	5580	23	3.9	152	1
14	5580	29	5	191	1
15	5580	23	3	194	1
16	5580	29	3.8	185	1
17	5580	28	2.5	152	1
18	5580	23	1.3	223	1
19	5580	29	1.4	165	1
20	5580	23	2.9	172	1
21	5580	24	3.5	166	1
22	5580	24	4.6	225	1
23	5580	23	4	161	1
24	5580	29	3.5	191	1
25	5580	29	4.6	162	1
26	5580	27	4.8	213	1
27	5580	23	4.7	191	1
28	5580	26	2.4	189	1
29	5580	23	4.2	176	1
30	5580	29	1.2	169	1
Detection Percentage: 100 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5580	16	6.9	440	1
2	5580	16	8.7	352	1
3	5580	18	8	282	1
4	5580	17	7.2	203	1
5	5580	17	7.4	417	1
6	5580	18	8.5	447	1
7	5580	17	8	234	1
8	5580	16	9	283	1
9	5580	16	9.3	273	1
10	5580	17	6.7	240	1
11	5580	18	8.6	326	1
12	5580	17	8.5	237	1
13	5580	16	7.3	259	1
14	5580	17	7	229	1
15	5580	17	7.5	238	1
16	5580	17	8.1	415	1
17	5580	17	8.3	439	1
18	5580	17	7.8	268	1
19	5580	16	7.7	328	1
20	5580	18	7	420	1
21	5580	17	9.2	263	1
22	5580	17	9.8	440	1
23	5580	18	9.8	242	1
24	5580	17	7.3	334	1
25	5580	18	9.9	231	1
26	5580	16	7.1	269	1
27	5580	17	9.6	322	1
28	5580	16	7.6	417	1
29	5580	16	9.2	448	1
30	5580	17	7.1	490	1
Detection Percentage: 100 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5580	13	20	445	1
2	5580	14	17	236	1
3	5580	12	15.8	409	1
4	5580	16	15.5	500	1
5	5580	15	11.4	487	1
6	5580	12	12	325	1
7	5580	13	15.7	336	1
8	5580	15	13.8	325	1
9	5580	16	15.5	367	1
10	5580	12	15	303	1
11	5580	16	16.7	407	1
12	5580	16	12.8	351	1
13	5580	16	12.9	288	1
14	5580	12	15.2	431	1
15	5580	13	16.2	271	1
16	5580	15	14.7	218	1
17	5580	14	19.1	353	1
18	5580	13	18	343	1
19	5580	15	12.2	281	1
20	5580	12	14.5	315	1
21	5580	13	16.9	248	1
22	5580	15	13.4	353	1
23	5580	16	11.8	451	1
24	5580	15	13.5	439	1
25	5580	12	11.2	480	1
26	5580	16	19.6	382	1
27	5580	14	13.2	247	1
28	5580	13	19.3	280	1
29	5580	15	11	246	1
30	5580	12	16.7	209	1
Detection Percentage: 100 % (>60%)					

Table-5 Radar Type 5 Statistical Performance

Bin5 Statistics 1

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	16	79.9	1356	1012	0.492027	
1	2	17	59.4	1442		0.925903	
2	2	15	53	1126		1.804748	
3	2	13	52.8	1056		2.020573	
4	2	6	59.6	1691		2.731689	
5	1	13	74.8			3.324256	
6	1	11	58.6			3.846291	
7	2	19	58.5	1983		4.694159	
8	1	17	79.8			5.424391	
9	2	16	56.8	1234		6.152882	1
10	3	11	80.8	1815	1878	6.785773	
11	3	16	61.6	1365	1461	7.455929	
12	2	13	95.6	1674		7.8709	
13	1	5	84.5			8.432512	
14	2	19	68	1899		9.117742	
15	2	10	58.5	1745		9.846536	
16	2	16	96.1	1489		10.402853	
17	3	8	50.1	1887	1407	10.855672	
18	1	13	61.4			11.727476	

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	64	1018		0.634841	
1	2	17	98.1	1706		1.039705	
2	2	15	92.5	1502		1.565521	
3	2	15	79.9	1240		2.659511	
4	1	15	72.6			2.712499	
5	3	13	56.7	1176	1237	3.556233	
6	1	9	55.2			4.170435	
7	1	19	55.4			5.045159	
8	3	18	76.8	1535	1980	5.936204	
9	1	11	62.4			6.467771	1
10	3	13	55.7	1539	1112	6.765392	
11	2	12	96.6	1673		7.807729	
12	3	6	95.5	1744	1750	8.599453	
13	1	16	53.6			9.153429	
14	2	12	66.3	1309		9.799463	
15	2	8	82.3	1511		10.099619	
16	2	15	84	1944		11.281608	
17	3	15	62.8	1077	1401	11.65499	

Bin5 Statistics 3

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	13	81.7	1335		0.300415	
1	2	20	89.4	1910		1.015105	
2	1	14	91.5			2.495582	
3	3	17	56.7	1793	1857	3.528599	
4	1	7	96.9			4.115203	
5	2	7	63.1	1922		5.239294	
6	1	14	73.7			6.217797	
7	3	12	85.4	1021	1803	6.996517	
8	2	9	51.1	1362		7.607838	
9	3	15	82.4	1947	1269	8.905745	
10	1	7	79.8			9.851047	
11	1	8	99.8			10.632301	
12	2	15	68.4	1813		11.917557	

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	17	93.4	1484	1501	0.306398	1
1	2	14	85.1	1413		1.615791	
2	2	6	58.8	1872		2.881898	
3	3	10	97	1879	1018	3.625654	
4	2	18	87.9	1873		4.858178	
5	2	7	97.9	1500		6.92492	
6	2	19	86.2	1982		8.337485	
7	2	6	93.7	1230		9.026384	
8	3	13	88.1	1340	1306	9.696568	
9	3	15	67.6	1532	1387	11.58941	

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	6	92	1709		0.384237	1
1	2	9	73.5	1796		0.850234	
2	1	12	70.2			1.752607	
3	2	17	99.8	1577		2.423974	
4	2	16	67.8	1512		3.451651	
5	1	15	56.6			3.580033	
6	2	18	91.8	1466		4.572859	
7	1	13	64.5			5.074217	
8	2	15	73	1393		5.695751	
9	2	6	75	1840		6.549602	
10	1	16	83.2			7.268645	
11	3	8	74.9	1671	1376	8.0807	
12	3	10	55.4	1058	1420	9.003831	
13	1	6	64.5			9.432616	
14	2	11	53.9	1444		9.925598	
15	2	17	74.8	1016		10.903965	
16	1	14	59.5			11.493607	

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	63.5			0.333972	1
1	3	7	85.6	1075	1069	1.248699	
2	2	18	90.4	1494		2.155262	
3	1	7	91.3			2.625457	
4	3	9	79.8	1717	1356	3.472016	
5	3	15	81.2	1937	1572	3.792512	
6	1	11	99.4			4.530187	
7	3	19	92.1	1174	1769	5.610205	
8	1	14	92.7			6.001565	
9	2	9	99.3	1705		7.388136	
10	1	7	73.3			7.61603	
11	2	16	73	1893		8.611142	
12	3	15	71	1096	1317	9.245663	
13	2	8	87.7	1119		10.025019	
14	2	19	59	1722		10.507615	
15	2	20	83.7	1301		11.580429	

Bin5 Statistics 7

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	10	89.9			0.490542	1
1	2	8	81.3	1612		2.409815	
2	1	13	98.9			2.815814	
3	3	12	92	1536	1565	4.072916	
4	1	16	93			5.370204	
5	1	19	66			7.789482	
6	2	8	99.8	1944		8.593651	
7	2	18	86.7	1340		10.210492	
8	3	6	81.1	1964	1187	10.8509	

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	19	84.5			0.700641	1
1	1	16	74.1			2.176318	
2	2	14	70.6	1869		3.576712	
3	2	6	56	1751		5.794325	
4	1	8	88			7.324482	
5	1	15	70			8.001851	
6	2	12	59.6	1390		9.183364	
7	1	7	76.4			11.132145	

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	12	60.8	1441		0.616769	1
1	2	13	62.5	1896		1.527497	
2	2	17	99.3	1255		2.154744	
3	2	10	83.8	1883		3.269746	
4	2	18	62.6	1556		4.410546	
5	3	14	92.1	1597	1046	5.909287	
6	2	7	74.6	1185		6.375149	
7	1	15	58.2			7.649686	
8	3	18	83.2	1224	1193	8.297822	
9	1	12	72.1			9.542399	
10	3	9	75.1	1894	1001	10.643129	
11	1	10	77.7			11.906817	

Bin5 Statistics 10

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	14	63	1005	1982	0.35089	1
1	2	7	79.5	1263		0.876434	
2	2	16	54.5	1626		1.970932	
3	2	15	80.3	1653		2.724207	
4	1	8	95.9			3.376043	
5	3	13	98.8	1764	1618	4.312044	
6	3	11	99.2	1788	1015	4.699766	
7	2	17	67	1636		5.737413	
8	3	18	72.7	1540	1508	6.634418	
9	2	18	72.4	1653		6.917403	
10	3	12	93.1	1604	1538	7.545769	
11	1	19	55.8			8.94432	
12	1	8	50.5			9.736926	
13	2	11	74.8	1187		10.258717	
14	2	15	97.8	1407		10.809414	
15	2	5	92.9	1566		11.408838	

Bin5 Statistics 11

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	9	81.8	1525		0.686327	1
1	3	17	67.8	1946	1406	1.240121	
2	3	10	63.9	1389	1897	1.756716	
3	2	12	93.8	1951		2.826532	
4	2	5	55.2	1944		4.094097	
5	2	12	54.3	1996		4.454524	
6	3	17	89.2	1830	1915	5.380152	
7	2	8	69.2	1630		6.218872	
8	3	20	75.9	1190	1253	6.99784	
9	1	18	75.1			7.724298	
10	2	7	63.7	1411		8.613601	
11	2	19	70	1890		9.61566	
12	3	17	88.7	1038	1126	10.660642	
13	2	9	98	1617		11.884674	

Bin5 Statistics 12

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	16	60.1	1353		0.301667	1
1	3	10	80.2	1852	1866	1.095069	
2	2	14	59	1882		1.366564	
3	2	17	69.3	1466		1.825414	
4	3	13	91.4	1221	1813	2.425394	
5	3	13	98.7	1912	1339	3.050764	
6	1	7	62.1			3.79616	
7	2	9	79.9	1348		4.237383	
8	3	14	73.8	1513	1689	5.318499	
9	2	10	73.9	1652		5.454166	
10	2	16	63.3	1138		6.348784	
11	3	10	59.9	1379	1251	6.945273	
12	1	14	79.7			7.752221	
13	2	11	53.3	1172		7.849221	
14	2	17	60.5	1410		8.603681	
15	3	11	75.9	1370	1174	9.109653	
16	2	11	95.9	1527		9.699665	
17	2	8	53.7	1580		10.212177	
18	2	15	77.6	1795		11.32641	
19	1	17	87.9			11.694101	

Bin5 Statistics 13

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	13	52.9	1984	1506	0.30489	1
1	3	14	56.6	1078	1224	1.325478	
2	3	14	80.2	1498	1613	2.928497	
3	2	11	53.7	1924		3.7355	
4	3	11	82.9	1792	1284	4.584465	
5	3	18	81.7	1371	1522	6.490656	
6	3	20	81.8	1100	1869	6.983234	
7	2	19	51.8	1129		8.375037	
8	1	17	73.6			9.779105	
9	1	10	86.6			10.215154	
10	1	19	94.9			11.873062	

Bin5 Statistics 14

Trial #	Pulse	Chirp (MHz)	Pulse Width (μS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	15	97.1	1200		0.094532	1
1	2	16	59.1	1109		0.929961	
2	2	15	91.6	1364		1.522918	
3	1	15	63.6			2.176315	
4	2	17	88	1577		2.743779	
5	1	8	70.6			3.385482	
6	2	9	66.1	1862		4.405754	
7	2	18	65.5	1080		4.753941	
8	2	12	54.6	1751		5.779749	
9	1	8	65.6			6.310118	
10	1	8	79.8			6.711744	
11	1	19	86.9			7.689989	
12	2	19	65.4	1565		8.129095	
13	1	15	92.4			8.783865	
14	2	11	80	1337		9.836267	
15	3	18	71	1637	1480	10.398193	
16	2	10	68.9	1887		10.885048	
17	2	9	66.3	1986		11.502057	

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	12	57.4			0.356694	
1	2	17	97.6	1727		0.87801	
2	2	17	66.5	1276		1.6114	
3	1	13	94.1			2.280643	
4	3	14	66.7	1450	1824	2.764585	
5	3	13	86.9	1151	1059	3.312692	
6	2	12	59.3	1657		4.388211	
7	2	12	83.3	1418		4.422837	
8	1	19	92.3			5.47685	
9	2	20	78.7	1489		6.058795	1
10	3	17	65.2	1896	1454	6.7445	
11	3	12	55.7	1026	1476	7.539789	
12	2	17	58.4	1294		8.035929	
13	1	17	61.8			8.469268	
14	2	19	61.5	1601		9.398015	
15	3	16	99.4	1492	1392	9.714792	
16	2	17	55.7	1531		10.175068	
17	2	13	79	1350		11.253697	
18	2	15	98.9	1586		11.790973	

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	16	99.7	1863		0.63062	1
1	1	14	60.2			0.856805	
2	2	20	68.1	1101		1.491572	
3	3	19	71	1284	1619	2.134899	
4	1	6	65.5			2.951799	
5	2	10	100	1696		3.340384	
6	3	6	62.9	1603	1871	4.55713	
7	3	17	53.1	1523	1931	4.783589	
8	2	15	85.8	1016		5.559706	
9	3	11	68.1	1128	1104	6.398788	
10	3	19	82.1	1527	1847	6.784596	
11	2	18	50.7	1266		7.513437	
12	2	20	62.1	1973		8.453924	
13	1	18	73.7			8.860804	
14	1	9	67.9			9.423358	
15	2	19	94.1	1938		10.489845	
16	3	17	93.6	1631	1259	11.145296	
17	2	20	52.3	1974		11.760537	

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	72.8	1502		0.684238	1
1	3	11	84.5	1779	1694	1.69671	
2	1	9	72.1			3.035495	
3	2	10	66.7	1648		3.644006	
4	1	11	88.5			5.020906	
5	3	8	92.5	1926	1242	6.120366	
6	1	6	69.5			7.527002	
7	3	12	64.4	1875	1670	8.707854	
8	1	14	80.8			9.374739	
9	1	9	83.2			10.570164	
10	2	13	70.3	1113		11.712767	

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	9	67.7			0.722306	
1	2	20	66.4	1371		1.556818	
2	3	6	93.2	1737	1512	1.699956	
3	2	13	63.1	1777		2.414408	
4	1	8	81.2			3.778863	
5	2	20	77.9	1977		4.697666	
6	2	19	92	1748		5.322481	
7	1	9	87.6			6.265936	1
8	2	7	88.6	1558		6.908833	
9	2	18	80.8	1254		7.359444	
10	1	12	83			8.489208	
11	2	14	66.2	1090		8.80487	
12	3	13	58.4	1431	1542	9.775398	
13	2	15	69.2	1138		10.82347	
14	2	14	90.9	1464		11.992094	

Bin5 Statistics 19

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	7	97.9			0.805509	
1	2	12	85.3	1560		1.584376	
2	2	18	67.5	1682		3.006554	
3	2	14	85.2	1106		4.741241	
4	1	17	96.3			5.766385	
5	1	8	84.8			6.444377	1
6	1	20	74			8.299679	
7	2	16	54.9	1297		8.91952	
8	2	9	60.2	1050		9.825231	
9	3	5	75	1817	1354	10.901608	

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	11	71.5	1473	1648	0.109409	1
1	1	13	95.6			1.41042	
2	2	9	63.5	1385		2.093086	
3	1	9	50.7			3.038746	
4	1	5	93.2			3.941647	
5	2	11	69.7	1153		4.657173	
6	2	10	80.9	1194		5.300784	
7	1	14	54.3			6.762661	
8	2	18	59.9	1545		7.569894	
9	2	16	84.6	1033		8.063358	
10	3	18	85.7	1644	1694	8.957708	
11	1	6	66.6			9.972038	
12	2	8	60.7	1706		11.028133	
13	2	10	83.1	1642		11.479051	

Bin5 Statistics 21

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	18	57	1092		0.184983	1
1	2	9	85.9	1503		1.453445	
2	1	9	58.2			1.998582	
3	2	20	72.3	1378		2.492075	
4	1	12	88.7			3.219571	
5	2	20	51.5	1910		4.337956	
6	3	16	60.5	1197	1246	4.707589	
7	2	16	54.2	1152		5.489798	
8	2	20	93.5	1109		6.128533	
9	2	10	83.7	1478		6.83724	
10	2	8	80.3	1429		7.813582	
11	3	16	64.3	1368	1048	8.729213	
12	1	5	56.1			9.045766	
13	1	11	55.8			9.790624	
14	2	9	61.1	1871		10.79444	
15	2	17	82.5	1043		11.416703	

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	11	54.9	1302	1711	0.449461	1
1	1	10	70.8			1.518508	
2	1	15	99.8			1.808134	
3	3	18	99.6	1003	1129	3.01724	
4	2	18	73.6	1684		4.238307	
5	1	8	82.1			4.365659	
6	2	18	87.3	1668		5.829166	
7	1	20	98.9			6.026661	
8	3	17	63.4	1859	1984	7.083897	
9	2	16	62.2	1554		8.142869	
10	3	11	65.7	1307	1358	8.778269	
11	2	8	91.8	1629		10.218162	
12	1	13	65.9			10.394215	
13	3	7	81.2	1962	1039	11.986272	

Bin5 Statistics 23

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	16	69.9			0.380969	1
1	3	13	84.4	1920	1902	0.714122	
2	2	19	66.8	1500		1.575805	
3	1	13	63.1			2.198887	
4	2	15	62.7	1637		2.668486	
5	2	11	89.7	1353		3.724084	
6	2	20	88	1942		4.366416	
7	2	11	56.2	1017		5.057791	
8	2	10	98.3	1895		5.890062	
9	3	13	81.2	1821	1703	6.427864	
10	2	17	54.1	1599		7.079524	
11	1	13	75.5			7.978882	
12	3	10	77	1701	1929	8.087556	
13	3	16	84.8	1814	1887	8.733541	
14	2	15	78.1	1980		9.570476	
15	2	18	87.7	1763		10.311878	
16	1	12	57			11.248394	
17	3	15	96.6	1557	1008	11.96136	

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	17	74			0.07586	1
1	3	6	74.1	1176	1437	1.062825	
2	3	13	60.5	1914	1770	1.629217	
3	3	11	71.3	1851	1087	2.454316	
4	1	7	98.9			2.999726	
5	2	14	53.7	1593		3.334978	
6	2	20	72	1709		4.212102	
7	2	9	83.6	1959		5.277299	
8	2	13	70.8	1717		5.793782	
9	2	5	75.8	1005		6.57426	
10	1	18	92.9			7.129271	
11	1	10	89.8			7.692499	
12	2	7	94.6	1121		8.282531	
13	3	6	52.3	1545	1777	8.884603	
14	2	11	55.2	1178		9.674809	
15	2	13	68.3	1257		10.116375	
16	1	10	53.2			10.728806	
17	1	19	65.8			11.643405	

Bin5 Statistics 25

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	17	96.9			0.481492	1
1	2	9	90.5	1795		1.138342	
2	2	14	68.7	1169		1.53661	
3	2	12	55.7	1143		2.65643	
4	3	14	56.7	1073	1372	3.449819	
5	3	15	56.5	1247	1651	3.999886	
6	2	16	67.8	1559		4.505191	
7	3	14	87.8	1542	1088	5.268966	
8	2	20	92.4	1296		6.698267	
9	2	7	57.8	1507		6.902193	
10	3	14	76	1143	1592	7.745258	
11	2	13	58	1436		8.429864	
12	3	17	92.7	1058	1016	9.561122	
13	3	11	65.4	1815	1474	9.909986	
14	3	8	86.1	1820	1029	11.137019	
15	2	11	55.8	1968		11.490597	

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	7	86.8	1719		0.086813	1
1	1	16	70.1			0.670795	
2	3	12	70.7	1189	1663	1.402095	
3	1	14	57.5			2.135168	
4	3	17	82.5	1154	1756	2.620422	
5	2	12	98.7	1005		3.377614	
6	2	19	61.8	1471		3.9928	
7	1	17	73.4			4.652393	
8	1	14	79.5			5.14781	
9	3	12	73.9	1633	1999	5.500383	
10	2	19	56.7	1693		6.335304	
11	2	10	86.5	1267		7.189437	
12	2	16	78.4	1423		7.699972	
13	2	20	78.6	1112		8.061748	
14	1	20	82			8.91044	
15	2	12	83.3	1192		9.577531	
16	1	6	80.6			9.645627	
17	3	10	73.4	1730	1019	10.419423	
18	3	11	97.9	1577	1819	11.128692	
19	1	18	75.5			11.730155	

Bin5 Statistics 27

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	17	90.7	1208	1021	0.346044	1
1	1	6	52.4			0.993716	
2	2	13	73.6	1003		1.858919	
3	3	17	94.4	1210	1730	2.915423	
4	2	11	78	1500		3.37348	
5	2	12	79.4	1437		3.948092	
6	2	11	50.5	1750		4.977261	
7	2	15	88.5	1584		5.965842	
8	1	7	78.1			6.672506	
9	1	7	80.7			7.079807	
10	1	13	90.4			7.760786	
11	2	17	75.1	1137		8.816016	
12	3	6	88.2	1219	1075	9.446336	
13	2	15	91.3	1979		9.759053	
14	2	19	98.6	1470		10.596754	
15	2	18	87.5	1009		11.455943	

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	19	89.6			0.502291	
1	3	17	55.1	1381	1584	0.746641	
2	1	14	58.7			1.858387	
3	1	10	92			2.55024	
4	2	18	97	1053		3.192646	
5	2	14	85.4	1647		3.782854	
6	1	15	57.3			4.329666	
7	2	20	98.5	1510		4.739655	
8	2	9	63.5	1951		5.470495	1
9	2	20	87.2	1849		6.409677	
10	2	10	78.8	1670		7.282147	
11	2	6	59.9	1546		7.824388	
12	2	19	85	1505		8.23574	
13	1	18	85.2			9.002114	
14	2	16	90.9	1890		9.904906	
15	1	9	52.7			10.199661	
16	2	17	93.1	1907		11.057921	
17	2	11	63.4	1726		11.699971	

Bin5 Statistics 29

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	10	67.8			0.315587	
1	2	8	72.4	1835		1.032408	
2	2	17	80	1165		2.459295	
3	2	13	75	1135		3.295857	
4	2	19	64.7	1345		4.479193	
5	3	14	83.2	1835	1096	5.18112	
6	2	15	57	1964		6.068107	1
7	3	19	82.1	1342	1061	6.468246	
8	2	6	65.5	1883		7.771439	
9	1	18	50.3			8.37603	
10	2	18	70	1464		9.556392	
11	2	15	61.8	1896		10.580353	
12	1	16	81.7			11.466017	

Bin5 Statistics 30

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	16	92.5	1252		0.030869	1
1	2	17	79.3	1796		1.354315	
2	2	8	99.5	1808		2.031662	
3	1	8	96.8			2.738247	
4	2	20	78.6	1370		3.617671	
5	1	10	64.5			4.153137	
6	3	20	53.7	1170	1629	4.88949	
7	2	20	71.3	1374		5.273171	
8	2	6	99.6	1408		6.373183	
9	1	20	54.3			6.753595	
10	2	17	72.6	1183		7.601098	
11	3	16	59.9	1130	1894	8.68649	
12	2	16	87.8	1341		9.266332	
13	3	13	89	1806	1959	10.482858	
14	2	10	60.3	1282		10.51146	
15	1	18	56			11.490735	

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	5344.0, 5445.0, 5460.0, 5353.0, 5508.0, 5308.0, 5465.0, 5499.0, 5358.0, 5373.0, 5659.0, 5294.0, 5251.0, 5651.0, 5363.0, 5564.0, 5449.0, 5296.0, 5315.0, 5612.0, 5312.0, 5452.0, 5571.0, 5683.0, 5402.0, 5525.0, 5476.0, 5341.0, 5502.0, 5321.0, 5660.0, 5641.0, 5524.0, 5399.0, 5374.0, 5269.0, 5485.0, 5704.0, 5629.0, 5633.0, 5667.0, 5453.0, 5585.0, 5314.0, 5706.0, 5526.0, 5693.0, 5350.0, 5432.0, 5455.0, 5398.0, 5592.0, 5371.0, 5511.0, 5295.0, 5394.0, 5383.0, 5649.0, 5418.0, 5407.0, 5324.0, 5698.0, 5636.0, 5362.0, 5384.0, 5545.0, 5425.0, 5375.0, 5357.0, 5623.0, 5702.0, 5478.0, 5293.0, 5691.0, 5348.0, 5679.0, 5285.0, 5544.0, 5397.0, 5420.0, 5365.0, 5491.0, 5437.0, 5376.0, 5708.0, 5611.0, 5329.0, 5410.0, 5475.0, 5601.0, 5454.0, 5258.0, 5648.0, 5533.0, 5652.0, 5685.0, 5653.0, 5283.0, 5396.0, 5603.0 (number of hits: 11)
2	5580	9	1	333	1	5324.0, 5348.0, 5699.0, 5413.0, 5630.0, 5625.0, 5336.0, 5391.0, 5706.0, 5422.0, 5585.0, 5383.0, 5439.0, 5302.0, 5543.0, 5598.0, 5611.0, 5569.0, 5266.0, 5371.0, 5620.0, 5559.0, 5329.0, 5277.0, 5562.0, 5381.0, 5272.0, 5469.0, 5342.0, 5656.0, 5330.0, 5594.0, 5367.0, 5573.0, 5346.0, 5714.0, 5374.0, 5333.0, 5408.0, 5571.0, 5660.0, 5399.0, 5488.0, 5658.0, 5401.0, 5606.0, 5528.0, 5648.0, 5517.0, 5481.0, 5557.0, 5674.0, 5499.0, 5293.0, 5623.0, 5537.0, 5284.0, 5387.0, 5334.0, 5710.0, 5270.0, 5360.0, 5452.0, 5376.0, 5327.0, 5373.0, 5464.0, 5286.0, 5295.0, 5427.0, 5650.0, 5641.0, 5294.0, 5400.0, 5410.0, 5570.0, 5315.0, 5358.0, 5705.0, 5356.0, 5318.0, 5501.0, 5601.0, 5550.0, 5271.0, 5311.0, 5514.0, 5479.0, 5526.0, 5321.0, 5252.0, 5313.0, 5417.0, 5354.0, 5275.0, 5328.0, 5511.0, 5267.0, 5685.0, 5359.0 (number of hits: 13)
3	5580	9	1	333	1	5451.0, 5399.0, 5251.0, 5675.0, 5310.0, 5694.0, 5253.0, 5282.0, 5519.0, 5440.0, 5615.0, 5386.0, 5448.0, 5572.0, 5466.0, 5328.0, 5698.0, 5704.0, 5429.0, 5601.0, 5304.0, 5425.0, 5292.0, 5498.0, 5493.0, 5295.0, 5344.0, 5666.0, 5619.0, 5446.0, 5454.0, 5315.0, 5479.0, 5593.0, 5319.0, 5668.0, 5691.0, 5339.0, 5720.0, 5511.0, 5277.0, 5604.0, 5312.0, 5599.0, 5380.0, 5415.0, 5392.0, 5421.0, 5334.0, 5300.0, 5546.0, 5573.0, 5351.0, 5716.0, 5258.0, 5679.0, 5321.0, 5363.0, 5702.0, 5612.0, 5706.0, 5358.0, 5605.0, 5443.0, 5354.0,

						5556.0, 5633.0, 5644.0, 5610.0, 5715.0, 5522.0, 5373.0, 5288.0, 5563.0, 5588.0, 5663.0, 5302.0, 5625.0, 5270.0, 5532.0, 5325.0, 5274.0, 5272.0, 5554.0, 5509.0, 5422.0, 5470.0, 5533.0, 5570.0, 5710.0, 5646.0, 5384.0, 5539.0, 5652.0, 5521.0, 5309.0, 5578.0, 5653.0, 5722.0, 5660.0 (number of hits: 13)
4	5580	9	1	333	1	5556.0, 5360.0, 5584.0, 5581.0, 5339.0, 5716.0, 5603.0, 5338.0, 5703.0, 5535.0, 5329.0, 5393.0, 5291.0, 5664.0, 5355.0, 5463.0, 5370.0, 5477.0, 5711.0, 5390.0, 5712.0, 5592.0, 5587.0, 5456.0, 5513.0, 5595.0, 5492.0, 5470.0, 5444.0, 5327.0, 5610.0, 5287.0, 5559.0, 5388.0, 5394.0, 5254.0, 5661.0, 5256.0, 5677.0, 5448.0, 5453.0, 5645.0, 5273.0, 5432.0, 5651.0, 5533.0, 5341.0, 5713.0, 5469.0, 5407.0, 5430.0, 5482.0, 5530.0, 5518.0, 5362.0, 5544.0, 5626.0, 5408.0, 5374.0, 5609.0, 5350.0, 5501.0, 5649.0, 5534.0, 5536.0, 5375.0, 5437.0, 5512.0, 5285.0, 5612.0, 5572.0, 5588.0, 5436.0, 5353.0, 5337.0, 5668.0, 5297.0, 5633.0, 5679.0, 5270.0, 5416.0, 5265.0, 5346.0, 5461.0, 5415.0, 5457.0, 5692.0, 5466.0, 5686.0, 5621.0, 5481.0, 5289.0, 5618.0, 5395.0, 5706.0, 5343.0, 5380.0, 5690.0, 5382.0, 5462.0 (number of hits: 4)
5	5580	9	1	333	1	5636.0, 5322.0, 5352.0, 5495.0, 5646.0, 5268.0, 5313.0, 5305.0, 5620.0, 5350.0, 5539.0, 5319.0, 5592.0, 5546.0, 5409.0, 5259.0, 5497.0, 5410.0, 5606.0, 5263.0, 5450.0, 5432.0, 5501.0, 5633.0, 5657.0, 5672.0, 5369.0, 5384.0, 5654.0, 5336.0, 5340.0, 5511.0, 5509.0, 5306.0, 5678.0, 5650.0, 5494.0, 5292.0, 5480.0, 5385.0, 5643.0, 5375.0, 5331.0, 5717.0, 5663.0, 5461.0, 5651.0, 5291.0, 5683.0, 5634.0, 5685.0, 5288.0, 5560.0, 5552.0, 5295.0, 5393.0, 5442.0, 5708.0, 5653.0, 5273.0, 5287.0, 5299.0, 5412.0, 5512.0, 5451.0, 5257.0, 5398.0, 5471.0, 5696.0, 5681.0, 5455.0, 5533.0, 5547.0, 5251.0, 5474.0, 5632.0, 5418.0, 5716.0, 5691.0, 5310.0, 5516.0, 5404.0, 5447.0, 5372.0, 5593.0, 5339.0, 5438.0, 5377.0, 5687.0, 5468.0, 5697.0, 5390.0, 5644.0, 5420.0, 5564.0, 5332.0, 5360.0, 5711.0, 5309.0, 5521.0 (number of hits: 11)
6	5580	9	1	333	1	5520.0, 5257.0, 5600.0, 5716.0, 5421.0, 5620.0, 5417.0, 5313.0, 5442.0, 5458.0, 5416.0, 5412.0, 5443.0, 5253.0, 5713.0, 5285.0, 5391.0, 5280.0, 5495.0, 5556.0, 5514.0, 5318.0, 5543.0, 5571.0, 5309.0, 5700.0, 5433.0, 5423.0, 5425.0, 5546.0, 5411.0, 5358.0, 5560.0, 5587.0, 5437.0, 5482.0, 5654.0, 5383.0, 5668.0, 5478.0, 5659.0, 5260.0, 5387.0, 5643.0, 5539.0, 5342.0, 5592.0, 5427.0, 5392.0, 5292.0,

						5679.0, 5529.0, 5469.0, 5564.0, 5658.0, 5350.0, 5468.0, 5484.0, 5694.0, 5473.0, 5327.0, 5562.0, 5601.0, 5557.0, 5311.0, 5631.0, 5466.0, 5515.0, 5422.0, 5510.0, 5715.0, 5521.0, 5590.0, 5340.0, 5268.0, 5602.0, 5310.0, 5401.0, 5328.0, 5646.0, 5618.0, 5357.0, 5408.0, 5406.0, 5583.0, 5720.0, 5538.0, 5622.0, 5276.0, 5351.0, 5525.0, 5486.0, 5553.0, 5319.0, 5493.0, 5263.0, 5685.0, 5579.0, 5691.0, 5617.0 (number of hits: 9)
7	5580	9	1	333	1	5586.0, 5529.0, 5497.0, 5286.0, 5410.0, 5255.0, 5313.0, 5351.0, 5413.0, 5544.0, 5621.0, 5260.0, 5538.0, 5400.0, 5545.0, 5717.0, 5306.0, 5590.0, 5344.0, 5723.0, 5670.0, 5494.0, 5295.0, 5658.0, 5361.0, 5706.0, 5399.0, 5648.0, 5409.0, 5443.0, 5510.0, 5687.0, 5350.0, 5333.0, 5335.0, 5542.0, 5457.0, 5332.0, 5251.0, 5270.0, 5708.0, 5366.0, 5574.0, 5535.0, 5445.0, 5558.0, 5441.0, 5435.0, 5446.0, 5382.0, 5317.0, 5368.0, 5253.0, 5308.0, 5557.0, 5468.0, 5551.0, 5629.0, 5539.0, 5665.0, 5470.0, 5263.0, 5666.0, 5582.0, 5656.0, 5672.0, 5585.0, 5511.0, 5636.0, 5531.0, 5554.0, 5691.0, 5442.0, 5276.0, 5385.0, 5516.0, 5604.0, 5630.0, 5684.0, 5375.0, 5271.0, 5341.0, 5622.0, 5676.0, 5526.0, 5297.0, 5528.0, 5322.0, 5495.0, 5418.0, 5638.0, 5285.0, 5709.0, 5450.0, 5471.0, 5644.0, 5472.0, 5613.0, 5362.0, 5518.0 (number of hits: 7)
8	5580	9	1	333	1	5321.0, 5567.0, 5345.0, 5411.0, 5598.0, 5660.0, 5306.0, 5399.0, 5651.0, 5472.0, 5375.0, 5657.0, 5628.0, 5429.0, 5561.0, 5347.0, 5614.0, 5504.0, 5451.0, 5317.0, 5419.0, 5461.0, 5301.0, 5395.0, 5326.0, 5353.0, 5529.0, 5599.0, 5480.0, 5682.0, 5511.0, 5304.0, 5570.0, 5385.0, 5533.0, 5629.0, 5366.0, 5271.0, 5447.0, 5506.0, 5545.0, 5442.0, 5435.0, 5400.0, 5666.0, 5402.0, 5413.0, 5609.0, 5422.0, 5690.0, 5667.0, 5275.0, 5286.0, 5341.0, 5401.0, 5505.0, 5479.0, 5513.0, 5284.0, 5647.0, 5441.0, 5641.0, 5462.0, 5270.0, 5299.0, 5572.0, 5670.0, 5273.0, 5501.0, 5503.0, 5543.0, 5575.0, 5710.0, 5474.0, 5542.0, 5312.0, 5487.0, 5714.0, 5398.0, 5602.0, 5639.0, 5626.0, 5390.0, 5357.0, 5331.0, 5709.0, 5420.0, 5528.0, 5618.0, 5632.0, 5524.0, 5338.0, 5613.0, 5373.0, 5650.0, 5465.0, 5665.0, 5359.0, 5721.0, 5408.0 (number of hits: 8)
9	5580	9	1	333	1	5324.0, 5362.0, 5313.0, 5522.0, 5618.0, 5265.0, 5384.0, 5677.0, 5654.0, 5648.0, 5308.0, 5556.0, 5486.0, 5604.0, 5490.0, 5696.0, 5543.0, 5610.0, 5555.0, 5541.0, 5357.0, 5682.0, 5708.0, 5558.0, 5665.0, 5369.0, 5524.0, 5268.0, 5404.0, 5416.0, 5605.0, 5280.0, 5344.0, 5578.0, 5717.0,

						5255.0, 5421.0, 5287.0, 5273.0, 5315.0, 5483.0, 5289.0, 5366.0, 5709.0, 5540.0, 5567.0, 5361.0, 5631.0, 5714.0, 5688.0, 5429.0, 5454.0, 5603.0, 5646.0, 5683.0, 5647.0, 5303.0, 5409.0, 5435.0, 5521.0, 5509.0, 5538.0, 5568.0, 5710.0, 5472.0, 5427.0, 5616.0, 5546.0, 5461.0, 5508.0, 5412.0, 5632.0, 5600.0, 5539.0, 5317.0, 5341.0, 5652.0, 5411.0, 5721.0, 5395.0, 5444.0, 5466.0, 5547.0, 5689.0, 5593.0, 5316.0, 5561.0, 5450.0, 5698.0, 5288.0, 5332.0, 5615.0, 5644.0, 5488.0, 5479.0, 5333.0, 5542.0, 5354.0, 5586.0, 5296.0 (number of hits: 8)
10	5580	9	1	333	1	5492.0, 5560.0, 5336.0, 5416.0, 5624.0, 5669.0, 5370.0, 5353.0, 5398.0, 5681.0, 5583.0, 5683.0, 5713.0, 5276.0, 5623.0, 5405.0, 5299.0, 5635.0, 5566.0, 5668.0, 5344.0, 5262.0, 5290.0, 5282.0, 5684.0, 5266.0, 5678.0, 5369.0, 5329.0, 5425.0, 5602.0, 5487.0, 5628.0, 5609.0, 5356.0, 5559.0, 5680.0, 5701.0, 5702.0, 5435.0, 5538.0, 5468.0, 5600.0, 5632.0, 5439.0, 5621.0, 5390.0, 5445.0, 5389.0, 5714.0, 5591.0, 5337.0, 5567.0, 5582.0, 5512.0, 5301.0, 5291.0, 5499.0, 5592.0, 5433.0, 5580.0, 5625.0, 5647.0, 5317.0, 5351.0, 5452.0, 5658.0, 5427.0, 5575.0, 5256.0, 5619.0, 5618.0, 5258.0, 5590.0, 5610.0, 5485.0, 5362.0, 5588.0, 5430.0, 5514.0, 5296.0, 5327.0, 5378.0, 5574.0, 5482.0, 5705.0, 5420.0, 5521.0, 5357.0, 5671.0, 5540.0, 5522.0, 5428.0, 5703.0, 5316.0, 5607.0, 5655.0, 5332.0, 5674.0, 5367.0 (number of hits: 9)
11	5580	9	1	333	1	5708.0, 5376.0, 5275.0, 5640.0, 5436.0, 5369.0, 5555.0, 5452.0, 5535.0, 5395.0, 5257.0, 5686.0, 5722.0, 5375.0, 5576.0, 5705.0, 5613.0, 5347.0, 5499.0, 5710.0, 5572.0, 5527.0, 5310.0, 5564.0, 5391.0, 5699.0, 5265.0, 5679.0, 5464.0, 5320.0, 5677.0, 5262.0, 5305.0, 5380.0, 5474.0, 5590.0, 5441.0, 5639.0, 5716.0, 5582.0, 5500.0, 5624.0, 5458.0, 5297.0, 5478.0, 5303.0, 5594.0, 5719.0, 5683.0, 5498.0, 5292.0, 5691.0, 5462.0, 5404.0, 5294.0, 5358.0, 5483.0, 5523.0, 5522.0, 5721.0, 5715.0, 5486.0, 5290.0, 5528.0, 5595.0, 5674.0, 5326.0, 5258.0, 5270.0, 5382.0, 5702.0, 5414.0, 5585.0, 5481.0, 5598.0, 5541.0, 5344.0, 5596.0, 5587.0, 5365.0, 5681.0, 5412.0, 5285.0, 5339.0, 5293.0, 5629.0, 5433.0, 5353.0, 5279.0, 5584.0, 5255.0, 5636.0, 5287.0, 5518.0, 5668.0, 5675.0, 5335.0, 5423.0, 5517.0, 5479.0 (number of hits: 10)
12	5580	9	1	333	1	5397.0, 5713.0, 5406.0, 5639.0, 5510.0, 5319.0, 5618.0, 5497.0, 5698.0, 5664.0, 5283.0, 5332.0, 5336.0, 5697.0, 5678.0, 5265.0, 5555.0, 5500.0, 5705.0, 5378.0,

						5701.0, 5693.0, 5440.0, 5281.0, 5688.0, 5297.0, 5562.0, 5586.0, 5377.0, 5588.0, 5468.0, 5662.0, 5665.0, 5364.0, 5538.0, 5263.0, 5529.0, 5466.0, 5541.0, 5353.0, 5288.0, 5520.0, 5634.0, 5395.0, 5366.0, 5272.0, 5392.0, 5306.0, 5683.0, 5329.0, 5314.0, 5409.0, 5567.0, 5676.0, 5308.0, 5539.0, 5546.0, 5477.0, 5322.0, 5653.0, 5636.0, 5700.0, 5616.0, 5381.0, 5655.0, 5447.0, 5502.0, 5443.0, 5699.0, 5708.0, 5352.0, 5706.0, 5507.0, 5390.0, 5453.0, 5600.0, 5327.0, 5528.0, 5530.0, 5479.0, 5415.0, 5256.0, 5549.0, 5362.0, 5402.0, 5518.0, 5287.0, 5575.0, 5370.0, 5435.0, 5670.0, 5346.0, 5380.0, 5262.0, 5711.0, 5513.0, 5712.0, 5581.0, 5305.0, 5667.0 (number of hits: 9)
13	5580	9	1	333	1	5666.0, 5261.0, 5301.0, 5257.0, 5344.0, 5543.0, 5505.0, 5252.0, 5646.0, 5447.0, 5369.0, 5453.0, 5377.0, 5353.0, 5286.0, 5470.0, 5270.0, 5460.0, 5326.0, 5461.0, 5269.0, 5457.0, 5669.0, 5609.0, 5686.0, 5722.0, 5396.0, 5421.0, 5603.0, 5560.0, 5258.0, 5630.0, 5350.0, 5692.0, 5592.0, 5659.0, 5579.0, 5554.0, 5398.0, 5284.0, 5635.0, 5535.0, 5299.0, 5389.0, 5500.0, 5433.0, 5558.0, 5330.0, 5337.0, 5279.0, 5379.0, 5467.0, 5561.0, 5451.0, 5650.0, 5532.0, 5368.0, 5519.0, 5578.0, 5332.0, 5487.0, 5455.0, 5504.0, 5425.0, 5502.0, 5310.0, 5708.0, 5320.0, 5298.0, 5596.0, 5485.0, 5562.0, 5710.0, 5526.0, 5712.0, 5544.0, 5336.0, 5644.0, 5395.0, 5695.0, 5503.0, 5647.0, 5360.0, 5711.0, 5354.0, 5613.0, 5678.0, 5255.0, 5479.0, 5262.0, 5415.0, 5327.0, 5302.0, 5403.0, 5648.0, 5349.0, 5365.0, 5682.0, 5281.0, 5599.0 (number of hits: 8)
14	5580	9	1	333	1	5290.0, 5612.0, 5572.0, 5316.0, 5677.0, 5708.0, 5618.0, 5510.0, 5393.0, 5362.0, 5559.0, 5439.0, 5613.0, 5716.0, 5288.0, 5515.0, 5675.0, 5551.0, 5270.0, 5434.0, 5382.0, 5641.0, 5597.0, 5318.0, 5527.0, 5321.0, 5447.0, 5326.0, 5306.0, 5308.0, 5284.0, 5604.0, 5409.0, 5456.0, 5474.0, 5672.0, 5601.0, 5388.0, 5516.0, 5593.0, 5682.0, 5443.0, 5411.0, 5579.0, 5398.0, 5415.0, 5681.0, 5286.0, 5354.0, 5370.0, 5534.0, 5396.0, 5435.0, 5674.0, 5441.0, 5302.0, 5540.0, 5537.0, 5663.0, 5298.0, 5251.0, 5673.0, 5252.0, 5546.0, 5599.0, 5704.0, 5564.0, 5689.0, 5348.0, 5473.0, 5301.0, 5678.0, 5366.0, 5556.0, 5350.0, 5586.0, 5333.0, 5659.0, 5655.0, 5260.0, 5600.0, 5423.0, 5390.0, 5683.0, 5623.0, 5513.0, 5596.0, 5554.0, 5493.0, 5632.0, 5686.0, 5606.0, 5550.0, 5650.0, 5444.0, 5386.0, 5690.0, 5638.0, 5480.0, 5617.0 (number of hits: 10)
15	5580	9	1	333	1	5455.0, 5368.0, 5609.0, 5415.0, 5695.0,

						5671.0, 5641.0, 5418.0, 5635.0, 5558.0, 5722.0, 5468.0, 5495.0, 5672.0, 5699.0, 5587.0, 5456.0, 5292.0, 5370.0, 5426.0, 5346.0, 5423.0, 5597.0, 5352.0, 5306.0, 5427.0, 5405.0, 5511.0, 5320.0, 5617.0, 5372.0, 5563.0, 5674.0, 5712.0, 5299.0, 5431.0, 5329.0, 5267.0, 5723.0, 5594.0, 5499.0, 5533.0, 5673.0, 5560.0, 5680.0, 5552.0, 5337.0, 5523.0, 5434.0, 5590.0, 5327.0, 5569.0, 5344.0, 5687.0, 5653.0, 5379.0, 5353.0, 5540.0, 5611.0, 5537.0, 5361.0, 5252.0, 5435.0, 5714.0, 5300.0, 5410.0, 5518.0, 5321.0, 5296.0, 5358.0, 5595.0, 5474.0, 5374.0, 5349.0, 5628.0, 5286.0, 5409.0, 5645.0, 5278.0, 5485.0, 5567.0, 5692.0, 5258.0, 5669.0, 5631.0, 5622.0, 5439.0, 5686.0, 5542.0, 5652.0, 5665.0, 5688.0, 5716.0, 5407.0, 5487.0, 5649.0, 5363.0, 5452.0, 5702.0, 5636.0 (number of hits: 9)
16	5580	9	1	333	1	5392.0, 5347.0, 5691.0, 5497.0, 5461.0, 5293.0, 5388.0, 5652.0, 5593.0, 5604.0, 5260.0, 5396.0, 5612.0, 5453.0, 5409.0, 5314.0, 5496.0, 5535.0, 5315.0, 5576.0, 5693.0, 5625.0, 5648.0, 5406.0, 5558.0, 5599.0, 5472.0, 5521.0, 5595.0, 5480.0, 5275.0, 5321.0, 5594.0, 5320.0, 5373.0, 5596.0, 5394.0, 5279.0, 5271.0, 5309.0, 5318.0, 5262.0, 5280.0, 5563.0, 5299.0, 5425.0, 5489.0, 5459.0, 5287.0, 5333.0, 5624.0, 5431.0, 5679.0, 5490.0, 5454.0, 5664.0, 5502.0, 5466.0, 5364.0, 5537.0, 5487.0, 5426.0, 5378.0, 5478.0, 5420.0, 5456.0, 5339.0, 5718.0, 5634.0, 5572.0, 5254.0, 5412.0, 5644.0, 5708.0, 5357.0, 5354.0, 5288.0, 5381.0, 5414.0, 5677.0, 5555.0, 5338.0, 5575.0, 5379.0, 5436.0, 5518.0, 5690.0, 5413.0, 5345.0, 5251.0, 5297.0, 5430.0, 5323.0, 5611.0, 5542.0, 5266.0, 5645.0, 5437.0, 5534.0, 5329.0 (number of hits: 11)
17	5580	9	1	333	1	5427.0, 5692.0, 5384.0, 5694.0, 5636.0, 5628.0, 5594.0, 5575.0, 5568.0, 5439.0, 5412.0, 5534.0, 5369.0, 5662.0, 5454.0, 5325.0, 5591.0, 5374.0, 5251.0, 5560.0, 5279.0, 5366.0, 5601.0, 5642.0, 5639.0, 5577.0, 5252.0, 5722.0, 5605.0, 5546.0, 5358.0, 5625.0, 5598.0, 5432.0, 5327.0, 5393.0, 5630.0, 5456.0, 5597.0, 5519.0, 5723.0, 5254.0, 5552.0, 5711.0, 5572.0, 5326.0, 5348.0, 5355.0, 5375.0, 5517.0, 5269.0, 5364.0, 5391.0, 5465.0, 5669.0, 5307.0, 5330.0, 5513.0, 5706.0, 5334.0, 5557.0, 5281.0, 5437.0, 5553.0, 5351.0, 5646.0, 5294.0, 5414.0, 5544.0, 5299.0, 5443.0, 5304.0, 5654.0, 5571.0, 5584.0, 5514.0, 5421.0, 5415.0, 5446.0, 5561.0, 5700.0, 5450.0, 5685.0, 5651.0, 5356.0, 5457.0, 5463.0, 5389.0, 5255.0, 5697.0, 5573.0, 5423.0, 5529.0, 5705.0, 5668.0,

						5298.0, 5470.0, 5543.0, 5487.0, 5490.0 (number of hits: 8)
18	5580	9	1	333	1	5658.0, 5376.0, 5578.0, 5610.0, 5662.0, 5628.0, 5695.0, 5711.0, 5605.0, 5697.0, 5311.0, 5626.0, 5563.0, 5441.0, 5305.0, 5484.0, 5477.0, 5633.0, 5713.0, 5575.0, 5719.0, 5382.0, 5511.0, 5588.0, 5647.0, 5364.0, 5682.0, 5562.0, 5509.0, 5283.0, 5355.0, 5302.0, 5643.0, 5623.0, 5555.0, 5639.0, 5640.0, 5539.0, 5372.0, 5251.0, 5456.0, 5522.0, 5627.0, 5447.0, 5581.0, 5471.0, 5534.0, 5599.0, 5294.0, 5681.0, 5337.0, 5470.0, 5716.0, 5696.0, 5621.0, 5529.0, 5348.0, 5363.0, 5712.0, 5436.0, 5690.0, 5367.0, 5493.0, 5347.0, 5518.0, 5370.0, 5264.0, 5449.0, 5398.0, 5303.0, 5553.0, 5333.0, 5288.0, 5426.0, 5596.0, 5586.0, 5323.0, 5724.0, 5455.0, 5341.0, 5386.0, 5402.0, 5404.0, 5560.0, 5582.0, 5572.0, 5457.0, 5571.0, 5399.0, 5439.0, 5587.0, 5419.0, 5488.0, 5566.0, 5431.0, 5564.0, 5432.0, 5495.0, 5324.0, 5602.0 (number of hits: 7)
19	5580	9	1	333	1	5529.0, 5547.0, 5650.0, 5719.0, 5688.0, 5707.0, 5289.0, 5439.0, 5507.0, 5334.0, 5371.0, 5715.0, 5432.0, 5542.0, 5452.0, 5437.0, 5445.0, 5384.0, 5565.0, 5663.0, 5497.0, 5657.0, 5562.0, 5270.0, 5315.0, 5252.0, 5274.0, 5714.0, 5370.0, 5543.0, 5487.0, 5661.0, 5482.0, 5391.0, 5710.0, 5691.0, 5267.0, 5348.0, 5720.0, 5314.0, 5422.0, 5416.0, 5551.0, 5278.0, 5620.0, 5353.0, 5696.0, 5366.0, 5483.0, 5286.0, 5256.0, 5609.0, 5481.0, 5415.0, 5407.0, 5454.0, 5500.0, 5716.0, 5466.0, 5546.0, 5263.0, 5505.0, 5395.0, 5418.0, 5338.0, 5512.0, 5426.0, 5670.0, 5561.0, 5558.0, 5588.0, 5681.0, 5718.0, 5347.0, 5519.0, 5559.0, 5397.0, 5614.0, 5476.0, 5486.0, 5280.0, 5279.0, 5516.0, 5405.0, 5340.0, 5305.0, 5436.0, 5325.0, 5684.0, 5433.0, 5712.0, 5474.0, 5403.0, 5402.0, 5506.0, 5591.0, 5392.0, 5382.0, 5359.0, 5660.0 (number of hits: 4)
20	5580	9	1	333	1	5440.0, 5490.0, 5582.0, 5620.0, 5608.0, 5719.0, 5659.0, 5576.0, 5702.0, 5263.0, 5540.0, 5374.0, 5299.0, 5448.0, 5715.0, 5401.0, 5533.0, 5708.0, 5454.0, 5526.0, 5432.0, 5613.0, 5623.0, 5545.0, 5691.0, 5668.0, 5467.0, 5670.0, 5625.0, 5678.0, 5389.0, 5562.0, 5302.0, 5713.0, 5692.0, 5418.0, 5334.0, 5700.0, 5528.0, 5435.0, 5259.0, 5474.0, 5566.0, 5564.0, 5309.0, 5261.0, 5531.0, 5595.0, 5552.0, 5285.0, 5529.0, 5634.0, 5381.0, 5560.0, 5701.0, 5473.0, 5618.0, 5486.0, 5660.0, 5598.0, 5551.0, 5514.0, 5283.0, 5723.0, 5298.0, 5306.0, 5324.0, 5707.0, 5348.0, 5472.0, 5717.0, 5669.0, 5525.0, 5342.0, 5304.0, 5546.0, 5508.0, 5663.0, 5570.0, 5294.0,

						5641.0, 5452.0, 5556.0, 5466.0, 5264.0, 5657.0, 5314.0, 5410.0, 5322.0, 5561.0, 5607.0, 5288.0, 5323.0, 5682.0, 5333.0, 5476.0, 5496.0, 5416.0, 5305.0, 5352.0 (number of hits: 12)
21	5580	9	1	333	1	5379.0, 5439.0, 5429.0, 5723.0, 5380.0, 5344.0, 5400.0, 5542.0, 5562.0, 5285.0, 5399.0, 5574.0, 5602.0, 5336.0, 5515.0, 5555.0, 5694.0, 5658.0, 5403.0, 5532.0, 5263.0, 5582.0, 5600.0, 5420.0, 5411.0, 5516.0, 5561.0, 5318.0, 5351.0, 5668.0, 5680.0, 5681.0, 5606.0, 5278.0, 5713.0, 5642.0, 5552.0, 5640.0, 5369.0, 5313.0, 5482.0, 5277.0, 5407.0, 5715.0, 5577.0, 5505.0, 5314.0, 5293.0, 5689.0, 5601.0, 5722.0, 5449.0, 5279.0, 5320.0, 5682.0, 5575.0, 5537.0, 5489.0, 5456.0, 5672.0, 5580.0, 5476.0, 5373.0, 5483.0, 5702.0, 5443.0, 5717.0, 5406.0, 5333.0, 5480.0, 5523.0, 5599.0, 5419.0, 5484.0, 5529.0, 5325.0, 5639.0, 5589.0, 5275.0, 5503.0, 5359.0, 5467.0, 5645.0, 5374.0, 5286.0, 5604.0, 5638.0, 5624.0, 5377.0, 5311.0, 5519.0, 5360.0, 5534.0, 5605.0, 5481.0, 5673.0, 5583.0, 5421.0, 5423.0, 5254.0 (number of hits: 7)
22	5580	9	1	333	1	5438.0, 5687.0, 5346.0, 5560.0, 5658.0, 5686.0, 5548.0, 5287.0, 5694.0, 5305.0, 5565.0, 5484.0, 5519.0, 5409.0, 5585.0, 5515.0, 5375.0, 5322.0, 5534.0, 5616.0, 5659.0, 5432.0, 5460.0, 5436.0, 5470.0, 5384.0, 5451.0, 5410.0, 5256.0, 5611.0, 5478.0, 5667.0, 5555.0, 5702.0, 5337.0, 5324.0, 5314.0, 5416.0, 5673.0, 5711.0, 5457.0, 5655.0, 5445.0, 5547.0, 5418.0, 5615.0, 5713.0, 5643.0, 5641.0, 5312.0, 5526.0, 5269.0, 5596.0, 5283.0, 5671.0, 5517.0, 5385.0, 5412.0, 5431.0, 5541.0, 5480.0, 5293.0, 5566.0, 5642.0, 5356.0, 5390.0, 5373.0, 5508.0, 5691.0, 5668.0, 5360.0, 5382.0, 5313.0, 5271.0, 5397.0, 5306.0, 5626.0, 5514.0, 5600.0, 5291.0, 5597.0, 5428.0, 5509.0, 5336.0, 5394.0, 5349.0, 5498.0, 5367.0, 5441.0, 5423.0, 5444.0, 5320.0, 5521.0, 5304.0, 5372.0, 5602.0, 5720.0, 5723.0, 5665.0, 5461.0 (number of hits: 11)
23	5580	9	1	333	1	5566.0, 5667.0, 5434.0, 5444.0, 5494.0, 5460.0, 5335.0, 5396.0, 5511.0, 5629.0, 5447.0, 5503.0, 5653.0, 5537.0, 5569.0, 5586.0, 5513.0, 5722.0, 5422.0, 5272.0, 5681.0, 5650.0, 5584.0, 5695.0, 5718.0, 5515.0, 5305.0, 5596.0, 5314.0, 5701.0, 5599.0, 5418.0, 5663.0, 5464.0, 5339.0, 5357.0, 5427.0, 5520.0, 5678.0, 5495.0, 5356.0, 5343.0, 5439.0, 5679.0, 5719.0, 5458.0, 5556.0, 5529.0, 5265.0, 5285.0, 5567.0, 5664.0, 5440.0, 5694.0, 5508.0, 5318.0, 5671.0, 5546.0, 5324.0, 5368.0, 5564.0, 5407.0, 5618.0, 5421.0, 5486.0,

						5320.0, 5626.0, 5313.0, 5612.0, 5304.0, 5654.0, 5682.0, 5712.0, 5579.0, 5337.0, 5360.0, 5412.0, 5559.0, 5298.0, 5655.0, 5595.0, 5289.0, 5565.0, 5483.0, 5714.0, 5417.0, 5461.0, 5628.0, 5260.0, 5273.0, 5672.0, 5317.0, 5384.0, 5493.0, 5639.0, 5702.0, 5581.0, 5365.0, 5632.0, 5405.0 (number of hits: 9)
24	5580	9	1	333	1	5427.0, 5465.0, 5428.0, 5544.0, 5515.0, 5424.0, 5473.0, 5654.0, 5507.0, 5376.0, 5664.0, 5467.0, 5614.0, 5271.0, 5440.0, 5625.0, 5673.0, 5681.0, 5405.0, 5565.0, 5366.0, 5445.0, 5647.0, 5331.0, 5310.0, 5607.0, 5434.0, 5600.0, 5307.0, 5349.0, 5709.0, 5633.0, 5264.0, 5525.0, 5458.0, 5256.0, 5257.0, 5574.0, 5518.0, 5689.0, 5598.0, 5508.0, 5517.0, 5317.0, 5357.0, 5306.0, 5401.0, 5680.0, 5718.0, 5626.0, 5296.0, 5501.0, 5639.0, 5496.0, 5395.0, 5255.0, 5542.0, 5563.0, 5703.0, 5688.0, 5580.0, 5665.0, 5511.0, 5653.0, 5314.0, 5577.0, 5436.0, 5692.0, 5593.0, 5367.0, 5453.0, 5422.0, 5466.0, 5498.0, 5360.0, 5254.0, 5520.0, 5535.0, 5571.0, 5655.0, 5495.0, 5278.0, 5714.0, 5506.0, 5294.0, 5336.0, 5557.0, 5616.0, 5686.0, 5722.0, 5448.0, 5315.0, 5270.0, 5276.0, 5538.0, 5409.0, 5661.0, 5323.0, 5587.0, 5521.0 (number of hits: 9)
25	5580	9	1	333	1	5710.0, 5293.0, 5493.0, 5285.0, 5651.0, 5539.0, 5585.0, 5681.0, 5373.0, 5481.0, 5517.0, 5398.0, 5376.0, 5667.0, 5360.0, 5296.0, 5281.0, 5714.0, 5568.0, 5251.0, 5723.0, 5682.0, 5535.0, 5301.0, 5603.0, 5377.0, 5294.0, 5721.0, 5553.0, 5508.0, 5623.0, 5375.0, 5520.0, 5425.0, 5572.0, 5665.0, 5537.0, 5349.0, 5260.0, 5453.0, 5277.0, 5604.0, 5609.0, 5320.0, 5334.0, 5369.0, 5410.0, 5554.0, 5463.0, 5583.0, 5446.0, 5310.0, 5408.0, 5257.0, 5427.0, 5328.0, 5634.0, 5544.0, 5329.0, 5547.0, 5666.0, 5522.0, 5718.0, 5352.0, 5501.0, 5347.0, 5303.0, 5445.0, 5299.0, 5308.0, 5657.0, 5255.0, 5388.0, 5403.0, 5574.0, 5507.0, 5350.0, 5552.0, 5491.0, 5659.0, 5367.0, 5692.0, 5577.0, 5557.0, 5543.0, 5532.0, 5454.0, 5292.0, 5635.0, 5353.0, 5689.0, 5612.0, 5599.0, 5602.0, 5601.0, 5448.0, 5617.0, 5518.0, 5430.0, 5391.0 (number of hits: 12)
26	5580	9	1	333	1	5686.0, 5641.0, 5540.0, 5567.0, 5624.0, 5392.0, 5685.0, 5653.0, 5503.0, 5443.0, 5299.0, 5563.0, 5350.0, 5317.0, 5452.0, 5599.0, 5318.0, 5487.0, 5597.0, 5691.0, 5470.0, 5387.0, 5438.0, 5606.0, 5554.0, 5307.0, 5535.0, 5315.0, 5635.0, 5405.0, 5280.0, 5560.0, 5502.0, 5432.0, 5693.0, 5507.0, 5565.0, 5408.0, 5457.0, 5255.0, 5695.0, 5652.0, 5558.0, 5274.0, 5638.0, 5712.0, 5718.0, 5515.0, 5455.0, 5492.0,

						5356.0, 5411.0, 5401.0, 5716.0, 5395.0, 5564.0, 5629.0, 5605.0, 5431.0, 5463.0, 5721.0, 5550.0, 5717.0, 5505.0, 5681.0, 5613.0, 5294.0, 5310.0, 5412.0, 5659.0, 5573.0, 5602.0, 5704.0, 5511.0, 5314.0, 5419.0, 5572.0, 5254.0, 5660.0, 5440.0, 5708.0, 5662.0, 5346.0, 5522.0, 5456.0, 5328.0, 5410.0, 5621.0, 5469.0, 5370.0, 5486.0, 5488.0, 5705.0, 5528.0, 5269.0, 5484.0, 5489.0, 5476.0, 5582.0, 5252.0 (number of hits: 9)
27	5580	9	1	333	1	5270.0, 5358.0, 5327.0, 5447.0, 5410.0, 5558.0, 5643.0, 5648.0, 5454.0, 5440.0, 5604.0, 5590.0, 5500.0, 5386.0, 5397.0, 5661.0, 5356.0, 5551.0, 5404.0, 5443.0, 5683.0, 5694.0, 5495.0, 5676.0, 5381.0, 5398.0, 5272.0, 5324.0, 5433.0, 5639.0, 5653.0, 5465.0, 5583.0, 5724.0, 5294.0, 5365.0, 5668.0, 5567.0, 5470.0, 5677.0, 5503.0, 5325.0, 5366.0, 5399.0, 5547.0, 5670.0, 5380.0, 5437.0, 5642.0, 5305.0, 5490.0, 5303.0, 5536.0, 5705.0, 5311.0, 5711.0, 5429.0, 5622.0, 5557.0, 5629.0, 5425.0, 5416.0, 5645.0, 5453.0, 5314.0, 5460.0, 5586.0, 5357.0, 5467.0, 5651.0, 5424.0, 5700.0, 5388.0, 5489.0, 5717.0, 5524.0, 5279.0, 5534.0, 5714.0, 5666.0, 5695.0, 5263.0, 5432.0, 5721.0, 5615.0, 5430.0, 5696.0, 5431.0, 5313.0, 5256.0, 5342.0, 5339.0, 5265.0, 5674.0, 5595.0, 5718.0, 5708.0, 5387.0, 5626.0, 5692.0 (number of hits: 9)
28	5580	9	1	333	1	5704.0, 5465.0, 5370.0, 5444.0, 5313.0, 5491.0, 5488.0, 5257.0, 5632.0, 5501.0, 5679.0, 5365.0, 5521.0, 5398.0, 5374.0, 5609.0, 5318.0, 5496.0, 5429.0, 5570.0, 5296.0, 5647.0, 5462.0, 5366.0, 5277.0, 5724.0, 5588.0, 5538.0, 5618.0, 5610.0, 5667.0, 5302.0, 5551.0, 5696.0, 5412.0, 5420.0, 5473.0, 5586.0, 5276.0, 5677.0, 5712.0, 5481.0, 5377.0, 5544.0, 5499.0, 5674.0, 5434.0, 5545.0, 5295.0, 5689.0, 5384.0, 5323.0, 5427.0, 5333.0, 5700.0, 5300.0, 5635.0, 5342.0, 5471.0, 5389.0, 5650.0, 5668.0, 5512.0, 5530.0, 5566.0, 5469.0, 5355.0, 5447.0, 5363.0, 5261.0, 5422.0, 5272.0, 5546.0, 5373.0, 5279.0, 5616.0, 5600.0, 5691.0, 5497.0, 5639.0, 5394.0, 5324.0, 5329.0, 5343.0, 5270.0, 5516.0, 5523.0, 5699.0, 5470.0, 5638.0, 5475.0, 5265.0, 5381.0, 5380.0, 5620.0, 5418.0, 5416.0, 5353.0, 5338.0, 5595.0 (number of hits: 9)
29	5580	9	1	333	1	5294.0, 5548.0, 5700.0, 5402.0, 5518.0, 5500.0, 5388.0, 5499.0, 5573.0, 5359.0, 5660.0, 5424.0, 5360.0, 5666.0, 5343.0, 5470.0, 5595.0, 5278.0, 5669.0, 5411.0, 5480.0, 5652.0, 5685.0, 5561.0, 5538.0, 5570.0, 5269.0, 5565.0, 5502.0, 5439.0, 5599.0, 5440.0, 5438.0, 5646.0, 5412.0,

						5362.0, 5346.0, 5601.0, 5639.0, 5519.0, 5435.0, 5353.0, 5456.0, 5332.0, 5344.0, 5525.0, 5292.0, 5657.0, 5289.0, 5583.0, 5287.0, 5569.0, 5704.0, 5514.0, 5605.0, 5389.0, 5549.0, 5539.0, 5584.0, 5508.0, 5690.0, 5582.0, 5521.0, 5612.0, 5291.0, 5678.0, 5393.0, 5407.0, 5627.0, 5322.0, 5367.0, 5663.0, 5661.0, 5648.0, 5513.0, 5654.0, 5608.0, 5671.0, 5493.0, 5459.0, 5405.0, 5451.0, 5356.0, 5299.0, 5559.0, 5350.0, 5286.0, 5636.0, 5320.0, 5398.0, 5645.0, 5614.0, 5534.0, 5252.0, 5512.0, 5409.0, 5280.0, 5509.0, 5488.0, 5270.0 (number of hits: 6)
30	5580	9	1	333	1	5270.0, 5677.0, 5407.0, 5549.0, 5419.0, 5671.0, 5378.0, 5558.0, 5494.0, 5643.0, 5676.0, 5457.0, 5458.0, 5351.0, 5408.0, 5597.0, 5357.0, 5384.0, 5259.0, 5600.0, 5280.0, 5681.0, 5668.0, 5512.0, 5328.0, 5577.0, 5529.0, 5499.0, 5599.0, 5409.0, 5449.0, 5574.0, 5583.0, 5655.0, 5376.0, 5301.0, 5543.0, 5485.0, 5688.0, 5322.0, 5305.0, 5514.0, 5619.0, 5349.0, 5547.0, 5316.0, 5395.0, 5602.0, 5526.0, 5480.0, 5421.0, 5360.0, 5260.0, 5560.0, 5437.0, 5467.0, 5390.0, 5365.0, 5431.0, 5347.0, 5345.0, 5630.0, 5661.0, 5451.0, 5382.0, 5420.0, 5720.0, 5596.0, 5585.0, 5708.0, 5339.0, 5261.0, 5516.0, 5424.0, 5299.0, 5607.0, 5342.0, 5254.0, 5615.0, 5423.0, 5381.0, 5295.0, 5471.0, 5675.0, 5722.0, 5344.0, 5622.0, 5288.0, 5459.0, 5410.0, 5646.0, 5256.0, 5307.0, 5396.0, 5508.0, 5631.0, 5274.0, 5264.0, 5498.0, 5269.0 (number of hits: 8)

5270 MHz, 40 MHz Bandwidth

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

Please refer to the following statistical tables:

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

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5270	74	1	718	1
2	5270	70	1	758	1
3	5270	62	1	858	1
4	5270	61	1	878	1
5	5270	68	1	778	1
6	5270	18	1	3066	1
7	5270	99	1	538	1
8	5270	78	1	678	1
9	5270	92	1	578	1
10	5270	89	1	598	1
11	5270	95	1	558	1
12	5270	83	1	638	1
13	5270	67	1	798	1
14	5270	72	1	738	1
15	5270	81	1	658	1
16	5270	41	1	1311	1
17	5270	49	1	1078	1
18	5270	85	1	624	1
19	5270	38	1	1404	1
20	5270	64	1	829	1
21	5270	20	1	2697	1
22	5270	71	1	747	1
23	5270	30	1	1793	1
24	5270	19	1	2802	1
25	5270	25	1	2155	1
26	5270	60	1	890	1
27	5270	23	1	2395	1
28	5270	19	1	2829	1
29	5270	54	1	979	1
30	5270	39	1	1384	1
Detection Percentage: 100 % (>60%)					

Table-2 Radar Type 2 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5270	29	1.2	183	1
2	5270	29	1.2	156	1
3	5270	27	4	216	1
4	5270	28	3.4	187	1
5	5270	23	3.9	175	1
6	5270	23	4.6	162	1
7	5270	23	2.9	211	1
8	5270	23	4.1	199	1
9	5270	25	4.6	156	1
10	5270	25	3.6	198	1
11	5270	25	1.2	156	1
12	5270	27	3.8	161	1
13	5270	26	3.5	179	1
14	5270	23	4	219	1
15	5270	27	3.3	158	1
16	5270	23	5	199	1
17	5270	27	4.2	194	1
18	5270	27	3.8	205	1
19	5270	26	1.5	208	1
20	5270	28	2.4	202	1
21	5270	29	4.1	191	1
22	5270	24	4.4	213	1
23	5270	28	4.2	184	1
24	5270	25	4.2	199	1
25	5270	27	1.1	189	1
26	5270	27	2.5	185	1
27	5270	25	4.3	174	1
28	5270	27	3.7	221	1
29	5270	24	4	199	1
30	5270	27	4.4	174	1
Detection Percentage: 100 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5270	17	8.9	325	1
2	5270	16	8.9	462	1
3	5270	16	6.3	404	1
4	5270	16	7	274	1
5	5270	18	6.2	342	1
6	5270	16	10	421	1
7	5270	18	8.1	208	1
8	5270	16	8.9	272	1
9	5270	16	9.9	244	1
10	5270	16	8.6	467	1
11	5270	17	10	327	1
12	5270	16	6.7	242	1
13	5270	18	8.2	455	1
14	5270	17	7.6	329	1
15	5270	18	7.3	225	1
16	5270	16	9.8	249	1
17	5270	16	7.5	338	1
18	5270	18	6	429	1
19	5270	16	6.4	424	1
20	5270	17	9.8	353	1
21	5270	16	6.6	497	1
22	5270	17	7.6	378	1
23	5270	17	7.7	340	1
24	5270	18	7.7	461	1
25	5270	16	9.5	254	1
26	5270	16	7.3	452	1
27	5270	16	6.6	499	1
28	5270	18	9.4	223	1
29	5270	17	7.3	263	1
30	5270	17	9.2	374	1
Detection Percentage: 100 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5270	12	18.2	500	1
2	5270	16	11.8	311	1
3	5270	14	14.3	385	1
4	5270	13	19.6	234	1
5	5270	14	17.8	387	1
6	5270	16	17.1	403	1
7	5270	16	14.5	201	1
8	5270	15	11.6	460	1
9	5270	12	11.1	473	1
10	5270	16	16.4	313	1
11	5270	13	11.8	207	1
12	5270	14	19.7	332	1
13	5270	16	18.7	397	1
14	5270	15	11.6	269	1
15	5270	12	11.5	309	1
16	5270	16	15.8	414	1
17	5270	12	16.1	276	1
18	5270	16	18.3	449	1
19	5270	13	18.2	441	1
20	5270	12	12.3	384	1
21	5270	14	14.3	358	1
22	5270	12	11	423	1
23	5270	12	13.8	330	1
24	5270	13	19.1	414	1
25	5270	13	12.8	253	1
26	5270	15	19.4	481	1
27	5270	16	13.2	244	1
28	5270	13	19.7	304	1
29	5270	14	13.8	417	1
30	5270	14	15.6	472	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	10	72.8	1805		0.271672	1
1	1	18	53.1			1.083774	
2	1	10	80			1.859692	
3	1	14	93.1			2.386387	
4	1	10	82.4			2.889624	
5	1	16	97.5			3.446878	
6	2	9	81.2	1227		4.317701	
7	2	7	72.7	1085		4.49921	
8	3	15	68.2	1069	1784	5.319134	
9	2	6	59	1611		5.886101	
10	2	19	79.6	1452		6.356185	
11	3	19	95.2	1272	1950	7.455614	
12	3	19	65.9	1420	1708	7.601808	
13	2	14	53.6	1368		8.332328	
14	3	9	71.9	1202	1463	8.98168	
15	3	13	79	1920	1038	9.510759	
16	1	9	90.7			10.23298	
17	1	18	71.3			11.244588	
18	2	12	58.1	1796		11.962848	

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	6	74.4			0.368499	1
1	2	11	51	1214		1.271136	
2	3	19	92.6	1366	1208	1.761617	
3	2	6	58.5	1730		3.372422	
4	2	15	55.9	1580		3.558651	
5	3	12	72.2	1240	1014	4.752791	
6	1	13	75.7			5.494529	
7	1	18	75.7			6.480355	
8	1	15	56.5			7.656682	
9	1	9	65			7.807645	
10	3	7	88.9	1441	1948	9.192323	
11	2	15	83.7	1742		10.012558	
12	2	8	51.1	1573		10.448097	
13	1	16	53			11.910963	

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	20	69.9	1071		0.454414	1
1	2	20	58.5	1552		1.396592	
2	2	17	90.5	1000		2.138644	
3	3	5	58.8	1869	1850	3.191387	
4	3	8	54.3	1248	1779	3.898339	
5	1	6	82.4			4.386568	
6	2	14	87.9	1335		5.204838	
7	2	7	58.2	1352		6.068067	
8	3	8	96.4	1688	1211	6.653541	
9	1	7	65.7			7.733483	
10	1	20	58			8.421852	
11	1	17	54.7			9.159713	
12	3	13	55.4	1196	1720	9.77589	
13	3	18	67.8	1349	1481	10.907542	
14	2	11	65.3	1570		11.254608	

Bin5 Statistics 4

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	15	81.9	1701		0.651427	
1	2	7	68.5	1086		1.674473	
2	2	7	81.2	1828		2.551433	
3	1	7	78.5			2.816638	
4	2	11	95.6	1194		3.886744	
5	2	17	54.3	1993		4.765264	
6	3	5	60.7	1866	1528	5.713701	1
7	2	17	54.1	1529		6.098236	
8	3	8	85.9	1176	1577	6.91785	
9	1	9	83.5			7.985836	
10	2	16	76	1419		8.610969	
11	2	8	57	1711		9.569278	
12	1	8	64.6			10.357956	
13	3	16	53	1703	1533	11.248541	

Bin5 Statistics 5

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	16	54.9	1591	1463	0.754392	
1	2	20	72.1	1931		1.066668	
2	1	9	70.6			1.999255	
3	2	11	79.1	1134		3.022081	
4	2	12	89.5	1181		3.937011	
5	2	17	86.8	1919		4.158113	
6	2	17	76.8	1709		5.083126	
7	2	7	82.8	1972		5.728996	1
8	2	11	83.2	1374		6.764011	
9	2	13	95.6	1233		7.981234	
10	3	15	54.9	1134	1965	8.392501	
11	2	14	83	1273		8.965999	
12	3	8	98.8	1099	1527	10.219282	
13	3	8	64.3	1055	1766	10.743815	
14	2	12	59.7	1541		11.50365	

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	86.6	1554		0.50291	1
1	3	17	87.9	1356	1951	1.209296	
2	2	17	95	1393		1.422347	
3	2	13	93.7	1869		2.161229	
4	2	15	67.1	1143		3.08106	
5	1	19	97.3			3.735559	
6	2	12	60.5	1276		4.431147	
7	3	6	68.3	1484	1219	4.674019	
8	1	5	70.4			5.611557	
9	3	12	57.6	1276	1680	6.566176	
10	3	16	71.8	1108	1536	6.857717	
11	2	15	58.2	1175		7.922248	
12	2	18	79.5	1277		8.530319	
13	3	14	96.9	1582	1394	8.692251	
14	2	7	69.8	1330		9.580746	
15	2	16	65.2	1168		10.365279	
16	1	17	78.1			10.709795	
17	2	11	59	1329		11.867809	

Bin5 Statistics 7

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	7	98.3	1133		0.607411	1
1	3	18	71.4	1383	1222	1.283289	
2	2	8	88.9	1415		1.536213	
3	1	5	99.7			2.901905	
4	3	11	81.6	1201	1257	3.68545	
5	3	8	95.3	1058	1234	3.76265	
6	1	16	93			4.682738	
7	2	5	80	1990		5.292227	
8	2	16	88.1	1151		6.602537	
9	2	11	56.3	1489		7.40115	
10	2	17	94.7	1166		7.889347	
11	2	8	78.4	1165		8.566743	
12	1	19	78.7			9.228314	
13	2	16	70.6	1145		9.866901	
14	1	11	70.8			10.582507	
15	2	9	64.6	1527		11.398711	

Bin5 Statistics 8

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	7	60.3			0.249435	
1	2	5	93.3	1152		0.821653	
2	2	12	91.5	1099		1.819835	
3	2	12	59.7	1076		2.487302	
4	2	12	99.9	1240		3.103611	
5	3	19	64.9	1249	1014	4.042123	
6	2	9	51.9	1526		4.321557	
7	2	11	72.1	1708		5.062876	
8	2	6	56.3	1010		5.820662	1
9	3	11	86.5	1034	1811	6.952928	
10	2	14	78.2	1352		7.219665	
11	3	12	85.3	1075	1910	7.922865	
12	3	11	61.7	1372	1276	8.947717	
13	2	8	99.1	1845		9.74216	
14	1	16	83.9			10.133977	
15	2	16	92.8	1835		10.923191	
16	2	19	70.9	1045		11.727372	

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	6	61.5	1927		1.093056	
1	2	13	72.3	1810		2.57457	
2	2	17	57.4	1505		3.468338	
3	2	7	59.6	1389		4.603582	
4	2	16	54.4	1216		6.330968	1
5	2	8	63.2	1226		7.325913	
6	2	18	68.8	1370		8.367278	
7	2	5	62.1	1690		9.927415	
8	3	17	97.5	1668	1988	10.878726	

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	19	63.9	1963		0.00162	1
1	2	6	72.8	1482		1.783613	
2	2	19	54.6	1006		2.986363	
3	3	10	80.5	1177	1551	3.711537	
4	1	10	81.4			4.723107	
5	2	14	76.6	1264		5.181358	
6	1	13	75.6			6.356754	
7	2	9	80.8	1832		7.39275	
8	2	10	94.3	1505		8.95056	
9	1	16	61.6			9.077197	
10	3	14	89.9	1090	1639	10.586228	
11	2	12	76.1	1119		11.022977	

Bin5 Statistics 11

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	11	71.5	1548		0.182872	1
1	2	9	91	1850		1.10757	
2	2	13	83.5	1502		1.92593	
3	1	13	88.4			2.30682	
4	1	14	58.8			3.274853	
5	2	16	76.6	1612		3.341548	
6	2	9	96.5	1742		4.368721	
7	3	8	67.2	1609	1559	4.973571	
8	2	13	79.8	1711		5.840203	
9	1	6	81.1			6.446073	
10	1	19	61.7			7.152204	
11	3	9	50.9	1616	1045	7.883047	
12	2	19	56.3	1684		8.40679	
13	3	8	84.6	1023	1388	9.208648	
14	3	11	72.5	1896	1702	9.346445	
15	3	15	68.5	1415	1472	10.292514	
16	3	5	96.7	1722	1689	11.136627	
17	3	18	54.8	1577	1637	11.586279	

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	12	53.4	1805		0.530958	1
1	2	14	79.9	1189		0.852355	
2	2	6	84.2	1694		1.662592	
3	1	5	95.6			2.63398	
4	2	6	84.9	1457		3.214143	
5	1	14	69.4			3.995693	
6	1	11	58.9			4.273505	
7	3	13	95.1	1104	1805	4.835799	
8	3	16	78.5	1888	1303	5.53955	
9	3	11	67	1494	1915	6.21601	
10	2	17	57	1337		7.282281	
11	1	8	66.1			7.853864	
12	2	5	65.4	1115		8.317169	
13	2	7	52.8	1267		8.979069	
14	3	14	74.3	1082	1360	9.489265	
15	2	18	65.9	1911		10.001336	
16	2	20	90.2	1222		10.779766	
17	2	10	59.3	1846		11.812502	

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	12	97			0.280515	1
1	3	11	63	1741	1126	0.838492	
2	2	12	52.3	1419		1.71693	
3	2	10	90	1427		2.226191	
4	2	7	59.9	1765		2.411799	
5	1	6	83.8			3.485381	
6	3	18	92.5	1217	1181	4.078175	
7	2	15	86.5	1198		4.514375	
8	3	7	55.5	1359	1723	5.20332	
9	1	13	96.2			5.511611	
10	2	9	61.8	1577		6.021115	
11	3	8	80.7	1255	1238	7.139597	
12	3	14	87.1	1822	1168	7.595167	
13	2	19	94	1831		8.04054	
14	3	8	64.9	1696	1296	8.915791	
15	2	9	76.5	1370		9.090244	
16	2	13	87.1	1735		9.696596	
17	2	5	97.9	1408		10.432636	
18	2	9	68.3	1961		11.156311	
19	2	8	72.3	1828		11.523798	

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	15	71.7			0.957503	1
1	2	8	68.6	1753		1.494476	
2	2	18	79.4	1604		3.333641	
3	2	17	79.7	1553		4.411763	
4	3	13	75.3	1110	1294	5.761889	
5	3	11	94.5	1999	1922	6.321304	
6	2	11	85.9	1272		8.304466	
7	2	19	74.8	1250		8.831619	
8	3	8	80.4	1092	1682	9.864483	
9	1	17	62.8			11.026521	

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	96.4	1344	1277	0.246815	1
1	3	12	57.4	1571	1651	1.672544	
2	3	12	59.7	1627	1101	1.866368	
3	2	6	65	1850		2.60542	
4	1	19	88.8			4.240242	
5	2	13	85.6	1200		4.788752	
6	1	17	52.3			5.839902	
7	3	7	98.7	1679	1564	6.33624	
8	2	17	54.2	1301		7.464454	
9	3	11	74.2	1733	1852	7.779293	
10	2	6	70.3	1461		9.342602	
11	2	18	55.7	1092		9.624189	
12	2	19	53.4	1132		10.6178	
13	1	9	96.1			11.71303	

Bin5 Statistics 16

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	13	95.1	1444		0.595463	1
1	2	5	79	1727		1.65739	
2	2	6	94.8	1115		2.957779	
3	2	14	69.1	1527		3.890739	
4	3	19	59.9	1424	1952	4.977537	
5	2	10	98.6	1520		7.143325	
6	2	19	82	1478		7.752883	
7	2	6	74.5	1465		9.139347	
8	2	10	88	1897		10.690622	
9	1	7	79.9			11.509542	

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	9	94.1			0.508484	
1	1	13	74.9			1.288288	
2	1	9	90.5			1.646953	
3	3	19	53.6	1300	1966	2.58243	
4	1	6	73.1			3.11592	
5	2	19	86.4	1418		4.194304	
6	2	12	50.4	1958		4.33605	
7	2	11	78	1444		5.621794	
8	2	19	71.7	1840		6.200473	1
9	3	11	50.9	1747	1623	6.55348	
10	2	13	90.2	1683		7.547035	
11	2	17	77.3	1136		8.373083	
12	1	15	88.5			9.14694	
13	2	11	98.6	1757		9.7199	
14	3	11	66.5	1217	1586	10.577627	
15	2	9	55.6	1399		10.912594	
16	1	19	79.4			11.442848	

Bin5 Statistics 18

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	9	98.2	1931		0.398731	
1	2	18	50.8	1810		1.843647	
2	1	9	61.6			3.083611	
3	2	17	88	1090		3.982527	
4	2	16	59.7	1928		5.193554	
5	1	13	63.7			6.152768	1
6	3	14	68.3	1735	1901	6.572122	
7	2	16	51.2	1212		7.925689	
8	2	13	54.5	1592		9.028221	
9	1	16	63.6			10.114625	
10	2	16	54	1190		11.13048	

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	15	66.3	1424		0.390533	
1	1	14	82.7			1.176533	
2	1	16	68			1.658909	
3	2	12	86.8	1604		2.155577	
4	1	19	51.6			3.003986	
5	3	17	66	1858	1177	3.558734	
6	1	15	50			4.541444	
7	2	15	92.9	1626		5.285934	
8	2	6	50.1	1862		5.851943	1
9	3	18	52.9	1732	1167	6.000605	
10	2	6	90.9	1985		7.265078	
11	2	6	79.5	1066		7.41104	
12	2	15	89.1	1362		8.303706	
13	2	18	89.9	1231		8.765462	
14	2	13	65.9	1830		9.808111	
15	2	8	52.7	1024		10.281961	
16	2	9	84	1399		11.167041	
17	3	19	52.5	1471	1366	11.4327	

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	60.6	1538		0.013513	
1	2	7	62.9	1903		1.943573	
2	3	10	70.2	1736	1941	2.635702	
3	2	17	55.2	1157		3.30812	
4	2	8	58.4	1160		4.844052	
5	2	17	78.6	1146		5.6147	1
6	3	14	70.7	1470	1998	6.958033	
7	1	16	65.9			8.595668	
8	3	8	70.8	1518	1027	8.737412	
9	3	10	73.8	1392	1879	10.540894	
10	3	7	93.9	1343	1226	11.360837	

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	11	80.4	1257		0.049119	
1	2	10	97.3	1811		0.843865	
2	3	9	96.2	1013	1438	1.749235	
3	2	11	95.1	1474		1.998269	
4	3	11	50.8	1901	1466	2.700325	
5	2	5	98.3	1300		3.387726	
6	3	15	66.6	1529	1163	4.127067	
7	3	15	94.2	1193	1280	4.824477	
8	2	8	55.1	1051		5.385799	
9	2	12	59.5	1227		6.11901	1
10	1	10	90.5			6.84479	
11	3	17	98.2	1835	1710	7.431172	
12	2	14	52.8	1961		7.63637	
13	2	19	56.2	1116		8.504315	
14	2	18	78.6	1765		9.322413	
15	2	14	57.8	1401		9.527027	
16	2	16	83.2	1083		10.628922	
17	2	15	66.3	1428		11.085951	
18	2	17	76.2	1790		11.874055	

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	12	57.4	1448	1052	0.700001	
1	1	6	62.3			1.322644	
2	2	17	67.9	1193		1.725703	
3	2	16	88.4	1876		2.482508	
4	2	15	62.8	1542		3.276449	
5	3	12	84.8	1122	1118	3.677278	
6	3	11	58.5	1263	1652	4.523654	
7	2	19	72.6	1170		5.311805	
8	2	7	57.9	1495		5.878262	1
9	2	17	51.4	1544		6.947441	
10	1	18	77.9			7.644841	
11	3	12	63.6	1861	1896	7.895021	
12	1	14	84.4			9.114865	
13	2	11	56.2	1672		9.343198	
14	2	10	81.9	1381		10.491843	
15	2	20	75.8	1474		11.016516	
16	2	12	78.9	1460		11.792142	

Bin5 Statistics 23

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	19	68.1	1769		1.18337	
1	2	12	95.6	1412		2.176228	
2	1	14	90.5			3.716347	
3	2	17	90.1	1194		5.117483	
4	2	6	96.8	1988		5.486417	1
5	2	16	53.7	1488		7.203209	
6	2	17	79.9	1957		8.641437	
7	1	7	86			10.531506	
8	1	18	55.8			11.781405	

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	11	86			0.755678	
1	3	13	58.3	1443	1807	1.663803	
2	1	10	72.5			2.211997	
3	1	10	91.7			3.305289	
4	3	8	98.3	1340	1239	4.489429	
5	1	9	84.4			4.812631	
6	1	10	84.6			5.855614	1
7	3	14	83.9	1609	1973	7.336258	
8	2	19	50.8	1570		8.272837	
9	3	15	76.3	1371	1128	8.814053	
10	2	17	62.1	1005		9.617654	
11	2	14	80.2	1794		10.92536	
12	2	18	72.1	1915		11.473493	

Bin5 Statistics 25

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	9	76.3	1818		0.073283	
1	2	12	82.3	1801		0.706571	
2	3	15	92.3	1153	1126	1.500892	
3	2	6	54.3	1135		2.291356	
4	1	13	62.2			2.610425	
5	2	6	83.5	1811		3.465716	
6	3	18	86.4	1764	1085	3.885374	
7	1	16	79.5			4.953481	
8	2	17	92.9	1661		5.637494	
9	3	8	75.1	1239	1885	5.857601	1
10	2	15	80.1	1791		6.450683	
11	1	14	63.4			7.563718	
12	3	13	78.8	1099	1198	7.984139	
13	1	18	74			8.515865	
14	2	6	78.1	1997		8.96412	
15	2	13	96.4	1365		9.672451	
16	2	15	79.3	1425		10.301296	
17	3	12	97	1600	1122	11.35289	
18	3	15	80.9	1812	1347	11.756142	

Bin5 Statistics 26

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	18	75.3	1869		0.734994	
1	2	13	60.6	1541		1.208496	
2	3	16	55.4	1659	1302	2.487556	
3	2	16	75.8	1149		3.046363	
4	3	16	77.7	1731	1980	3.907433	
5	2	12	97.1	1108		4.667299	
6	1	13	65.3			6.440466	1
7	1	14	78			7.048952	
8	3	18	63.6	1093	1227	8.004878	
9	2	10	86.4	1012		8.510038	
10	3	7	52.3	1316	1052	9.238252	
11	3	17	50.3	1403	1855	10.37911	
12	2	17	80.9	1171		11.78245	

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	17	93.3	1612		0.783006	
1	2	16	80.3	1889		1.216759	
2	2	18	63	1046		2.131227	
3	3	13	56.2	1161	1904	3.485016	
4	3	16	61.1	1374	1937	3.729521	
5	2	12	61.9	1934		4.657331	
6	2	7	99.8	1967		6.338319	1
7	1	15	63.8			6.608139	
8	2	14	51.5	1218		8.076622	
9	2	14	96.8	1600		9.119745	
10	1	11	60			9.799528	
11	1	9	73.5			10.844569	
12	3	16	93.7	1942	1924	11.399608	

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	20	57.1	1054		0.168199	
1	3	6	57.8	1817	1470	0.736785	
2	3	19	73.1	1364	1106	1.25046	
3	2	15	61.4	1612		2.369849	
4	3	15	61.2	1840	1644	2.442116	
5	2	8	60.7	1851		3.375628	
6	1	10	81.9			3.836833	
7	2	20	95.2	1251		4.736766	
8	2	5	73.8	1200		4.829341	
9	2	13	86.6	1777		5.6938	
10	2	16	61.7	1969		6.576011	1
11	3	13	88.7	1367	1371	6.731749	
12	2	11	56	1388		7.52063	
13	1	7	52.2			8.006681	
14	2	11	83	1519		8.551325	
15	1	10	97.7			9.077637	
16	2	9	61.1	1573		9.985894	
17	1	16	97.9			10.656409	
18	1	10	56.5			10.847077	
19	1	9	91			11.494556	

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	12	69.4	1255		0.93435	
1	1	11	78.8			1.765224	
2	3	11	71.6	1114	1225	2.372448	
3	2	6	86.4	1849		3.630557	
4	1	9	73.9			4.104659	
5	2	13	86.7	1495		5.363281	
6	2	16	50.5	1043		6.75049	1
7	3	12	96.7	1453	1667	7.163202	
8	3	19	94.6	1461	1175	8.85369	
9	3	16	87.2	1885	1773	9.354211	
10	3	13	62.6	1106	1576	10.662579	
11	3	5	97.8	1047	1646	11.719027	

Bin5 Statistics 30

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	16	95.7			0.313729	
1	3	19	77.8	1919	1348	1.267384	
2	3	10	86.7	1498	1114	1.714483	
3	3	12	80.5	1058	1771	2.834101	
4	3	13	53.9	1936	1871	3.033776	
5	3	11	51.3	1619	1716	4.123208	
6	2	15	99.3	1801		4.855468	
7	1	8	71			5.953868	
8	2	13	80.3	1700		6.084842	1
9	2	16	50.4	1574		7.480172	
10	2	8	98.5	1419		7.77159	
11	2	6	54.9	1909		8.708431	
12	2	10	66.4	1816		9.229556	
13	2	16	57.4	1739		9.750293	
14	2	10	67	1111		10.630291	
15	3	13	96.1	1835	1277	11.393914	

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	5415.0, 5466.0, 5622.0, 5290.0, 5506.0, 5355.0, 5693.0, 5684.0, 5283.0, 5713.0, 5455.0, 5520.0, 5574.0, 5530.0, 5719.0, 5534.0, 5285.0, 5493.0, 5661.0, 5287.0, 5515.0, 5469.0, 5328.0, 5511.0, 5623.0, 5549.0, 5599.0, 5433.0, 5441.0, 5444.0, 5688.0, 5652.0, 5281.0, 5675.0, 5460.0, 5690.0, 5611.0, 5404.0, 5670.0, 5548.0, 5517.0, 5583.0, 5716.0, 5481.0, 5705.0, 5375.0, 5401.0, 5392.0, 5478.0, 5400.0, 5468.0, 5425.0, 5265.0, 5643.0, 5429.0, 5337.0, 5357.0, 5499.0, 5525.0, 5350.0, 5366.0, 5467.0, 5689.0, 5645.0, 5320.0, 5557.0, 5431.0, 5327.0, 5362.0, 5428.0, 5470.0, 5394.0, 5437.0, 5261.0, 5311.0, 5508.0, 5514.0, 5402.0, 5307.0, 5315.0, 5526.0, 5503.0, 5351.0, 5480.0, 5576.0, 5295.0, 5697.0, 5647.0, 5635.0, 5550.0, 5380.0, 5606.0, 5706.0, 5358.0, 5472.0, 5439.0, 5390.0, 5388.0, 5299.0, 5474.0 (number of hits: 9)
2	5270	9	1	333	1	5341.0, 5415.0, 5372.0, 5600.0, 5523.0, 5516.0, 5309.0, 5278.0, 5284.0, 5431.0, 5340.0, 5685.0, 5660.0, 5488.0, 5343.0, 5571.0, 5443.0, 5669.0, 5694.0, 5560.0, 5493.0, 5260.0, 5622.0, 5526.0, 5472.0, 5464.0, 5709.0, 5294.0, 5614.0, 5678.0, 5638.0, 5257.0, 5708.0, 5399.0, 5434.0, 5692.0, 5329.0, 5686.0, 5529.0, 5567.0, 5317.0, 5269.0, 5373.0, 5611.0, 5411.0, 5562.0, 5511.0, 5609.0, 5315.0, 5359.0, 5437.0, 5654.0, 5700.0, 5368.0, 5698.0, 5274.0, 5448.0, 5324.0, 5607.0, 5719.0, 5393.0, 5477.0, 5483.0, 5668.0, 5458.0, 5310.0, 5356.0, 5262.0, 5391.0, 5621.0, 5484.0, 5460.0, 5518.0, 5628.0, 5461.0, 5337.0, 5320.0, 5687.0, 5561.0, 5629.0, 5414.0, 5689.0, 5619.0, 5535.0, 5441.0, 5394.0, 5593.0, 5564.0, 5361.0, 5401.0, 5533.0, 5325.0, 5613.0, 5447.0, 5426.0, 5643.0, 5675.0, 5718.0, 5395.0, 5316.0 (number of hits: 10)
3	5270	9	1	333	1	5521.0, 5540.0, 5290.0, 5668.0, 5574.0, 5397.0, 5528.0, 5626.0, 5331.0, 5584.0, 5354.0, 5401.0, 5695.0, 5466.0, 5460.0, 5546.0, 5274.0, 5450.0, 5405.0, 5384.0, 5262.0, 5376.0, 5599.0, 5547.0, 5711.0, 5650.0, 5451.0, 5594.0, 5721.0, 5508.0, 5573.0, 5497.0, 5707.0, 5713.0, 5462.0, 5438.0, 5352.0, 5417.0, 5353.0, 5652.0, 5442.0, 5291.0, 5533.0, 5648.0, 5580.0, 5282.0, 5637.0, 5303.0, 5709.0, 5703.0, 5300.0, 5611.0, 5516.0, 5670.0, 5520.0, 5490.0, 5429.0, 5507.0, 5380.0, 5629.0, 5292.0, 5556.0, 5336.0, 5482.0, 5602.0,

						5630.0, 5526.0, 5302.0, 5572.0, 5463.0, 5718.0, 5452.0, 5623.0, 5357.0, 5598.0, 5587.0, 5389.0, 5258.0, 5576.0, 5701.0, 5544.0, 5433.0, 5697.0, 5266.0, 5416.0, 5449.0, 5299.0, 5445.0, 5638.0, 5527.0, 5296.0, 5639.0, 5601.0, 5259.0, 5261.0, 5595.0, 5431.0, 5321.0, 5428.0, 5343.0 (number of hits: 9)
4	5270	9	1	333	1	5488.0, 5635.0, 5475.0, 5349.0, 5576.0, 5415.0, 5332.0, 5291.0, 5564.0, 5404.0, 5284.0, 5522.0, 5649.0, 5407.0, 5644.0, 5549.0, 5311.0, 5477.0, 5250.0, 5519.0, 5534.0, 5613.0, 5591.0, 5319.0, 5253.0, 5592.0, 5587.0, 5336.0, 5513.0, 5664.0, 5557.0, 5721.0, 5641.0, 5342.0, 5647.0, 5572.0, 5675.0, 5264.0, 5666.0, 5431.0, 5520.0, 5530.0, 5629.0, 5562.0, 5693.0, 5424.0, 5435.0, 5648.0, 5578.0, 5317.0, 5589.0, 5615.0, 5316.0, 5494.0, 5702.0, 5651.0, 5275.0, 5717.0, 5525.0, 5373.0, 5260.0, 5379.0, 5659.0, 5528.0, 5603.0, 5574.0, 5624.0, 5452.0, 5434.0, 5271.0, 5334.0, 5456.0, 5400.0, 5428.0, 5388.0, 5449.0, 5297.0, 5436.0, 5700.0, 5405.0, 5294.0, 5657.0, 5555.0, 5472.0, 5430.0, 5536.0, 5661.0, 5288.0, 5600.0, 5353.0, 5646.0, 5551.0, 5550.0, 5469.0, 5546.0, 5679.0, 5619.0, 5590.0, 5671.0, 5669.0 (number of hits: 7)
5	5270	9	1	333	1	5379.0, 5384.0, 5532.0, 5605.0, 5253.0, 5660.0, 5399.0, 5594.0, 5643.0, 5329.0, 5451.0, 5592.0, 5615.0, 5342.0, 5542.0, 5461.0, 5335.0, 5420.0, 5697.0, 5400.0, 5312.0, 5364.0, 5406.0, 5709.0, 5515.0, 5290.0, 5259.0, 5425.0, 5337.0, 5668.0, 5597.0, 5672.0, 5718.0, 5691.0, 5320.0, 5505.0, 5265.0, 5340.0, 5281.0, 5541.0, 5657.0, 5299.0, 5557.0, 5525.0, 5567.0, 5378.0, 5670.0, 5283.0, 5666.0, 5387.0, 5325.0, 5534.0, 5633.0, 5573.0, 5673.0, 5663.0, 5651.0, 5322.0, 5410.0, 5595.0, 5510.0, 5537.0, 5316.0, 5470.0, 5700.0, 5467.0, 5448.0, 5654.0, 5361.0, 5492.0, 5712.0, 5306.0, 5556.0, 5706.0, 5704.0, 5496.0, 5356.0, 5720.0, 5278.0, 5459.0, 5574.0, 5578.0, 5489.0, 5428.0, 5295.0, 5392.0, 5455.0, 5593.0, 5582.0, 5650.0, 5546.0, 5626.0, 5258.0, 5655.0, 5713.0, 5638.0, 5535.0, 5296.0, 5393.0, 5460.0 (number of hits: 11)
6	5270	9	1	333	1	5416.0, 5489.0, 5560.0, 5415.0, 5547.0, 5381.0, 5511.0, 5355.0, 5616.0, 5588.0, 5418.0, 5379.0, 5640.0, 5253.0, 5389.0, 5605.0, 5673.0, 5524.0, 5572.0, 5467.0, 5578.0, 5426.0, 5700.0, 5611.0, 5439.0, 5369.0, 5347.0, 5265.0, 5544.0, 5377.0, 5311.0, 5285.0, 5717.0, 5652.0, 5486.0, 5427.0, 5637.0, 5649.0, 5457.0, 5484.0, 5647.0, 5482.0, 5554.0, 5705.0, 5504.0, 5707.0, 5330.0, 5401.0, 5643.0, 5441.0,

						5582.0, 5479.0, 5448.0, 5686.0, 5562.0, 5279.0, 5465.0, 5340.0, 5596.0, 5593.0, 5642.0, 5648.0, 5683.0, 5325.0, 5386.0, 5521.0, 5624.0, 5380.0, 5374.0, 5568.0, 5362.0, 5592.0, 5256.0, 5365.0, 5328.0, 5561.0, 5474.0, 5491.0, 5375.0, 5653.0, 5408.0, 5478.0, 5629.0, 5438.0, 5620.0, 5260.0, 5688.0, 5310.0, 5657.0, 5538.0, 5494.0, 5353.0, 5606.0, 5585.0, 5527.0, 5550.0, 5575.0, 5555.0, 5709.0, 5475.0 (number of hits: 4)
7	5270	9	1	333	1	5580.0, 5349.0, 5535.0, 5657.0, 5457.0, 5524.0, 5355.0, 5317.0, 5623.0, 5392.0, 5285.0, 5588.0, 5606.0, 5628.0, 5615.0, 5585.0, 5655.0, 5668.0, 5617.0, 5429.0, 5258.0, 5684.0, 5327.0, 5352.0, 5722.0, 5264.0, 5526.0, 5472.0, 5697.0, 5256.0, 5465.0, 5432.0, 5257.0, 5550.0, 5412.0, 5369.0, 5311.0, 5533.0, 5471.0, 5544.0, 5523.0, 5326.0, 5582.0, 5319.0, 5621.0, 5539.0, 5574.0, 5418.0, 5597.0, 5625.0, 5407.0, 5268.0, 5521.0, 5321.0, 5591.0, 5357.0, 5714.0, 5717.0, 5332.0, 5583.0, 5499.0, 5300.0, 5673.0, 5463.0, 5453.0, 5421.0, 5706.0, 5345.0, 5368.0, 5310.0, 5455.0, 5519.0, 5320.0, 5634.0, 5338.0, 5563.0, 5663.0, 5537.0, 5508.0, 5577.0, 5712.0, 5343.0, 5530.0, 5569.0, 5424.0, 5510.0, 5666.0, 5567.0, 5677.0, 5323.0, 5395.0, 5645.0, 5596.0, 5667.0, 5688.0, 5440.0, 5388.0, 5348.0, 5652.0, 5401.0 (number of hits: 10)
8	5270	9	1	333	1	5430.0, 5610.0, 5686.0, 5272.0, 5395.0, 5520.0, 5361.0, 5331.0, 5345.0, 5646.0, 5480.0, 5572.0, 5427.0, 5554.0, 5487.0, 5604.0, 5662.0, 5512.0, 5636.0, 5388.0, 5674.0, 5310.0, 5643.0, 5368.0, 5358.0, 5363.0, 5378.0, 5569.0, 5313.0, 5473.0, 5319.0, 5712.0, 5290.0, 5676.0, 5645.0, 5274.0, 5472.0, 5547.0, 5634.0, 5263.0, 5318.0, 5714.0, 5517.0, 5659.0, 5283.0, 5381.0, 5300.0, 5690.0, 5340.0, 5481.0, 5438.0, 5269.0, 5414.0, 5330.0, 5278.0, 5402.0, 5658.0, 5622.0, 5305.0, 5359.0, 5446.0, 5627.0, 5717.0, 5641.0, 5700.0, 5713.0, 5329.0, 5415.0, 5295.0, 5264.0, 5612.0, 5357.0, 5251.0, 5593.0, 5673.0, 5621.0, 5439.0, 5482.0, 5696.0, 5623.0, 5326.0, 5496.0, 5281.0, 5304.0, 5591.0, 5454.0, 5475.0, 5453.0, 5694.0, 5499.0, 5657.0, 5533.0, 5311.0, 5444.0, 5397.0, 5640.0, 5609.0, 5720.0, 5497.0, 5558.0 (number of hits: 12)
9	5270	9	1	333	1	5322.0, 5598.0, 5302.0, 5284.0, 5599.0, 5332.0, 5484.0, 5488.0, 5253.0, 5321.0, 5623.0, 5720.0, 5397.0, 5406.0, 5552.0, 5525.0, 5414.0, 5510.0, 5436.0, 5586.0, 5494.0, 5564.0, 5569.0, 5347.0, 5507.0, 5400.0, 5590.0, 5513.0, 5478.0, 5635.0, 5535.0, 5524.0, 5334.0, 5446.0, 5595.0,

						5343.0, 5476.0, 5567.0, 5665.0, 5438.0, 5620.0, 5571.0, 5588.0, 5317.0, 5514.0, 5522.0, 5260.0, 5453.0, 5523.0, 5456.0, 5418.0, 5268.0, 5301.0, 5252.0, 5267.0, 5434.0, 5520.0, 5374.0, 5628.0, 5553.0, 5580.0, 5308.0, 5717.0, 5680.0, 5696.0, 5449.0, 5361.0, 5539.0, 5292.0, 5577.0, 5399.0, 5555.0, 5675.0, 5313.0, 5581.0, 5368.0, 5447.0, 5678.0, 5558.0, 5715.0, 5403.0, 5444.0, 5404.0, 5264.0, 5685.0, 5355.0, 5527.0, 5428.0, 5364.0, 5651.0, 5716.0, 5333.0, 5702.0, 5670.0, 5603.0, 5417.0, 5631.0, 5303.0, 5722.0, 5356.0 (number of hits: 9)
10	5270	9	1	333	1	5385.0, 5672.0, 5613.0, 5665.0, 5258.0, 5489.0, 5327.0, 5720.0, 5564.0, 5551.0, 5388.0, 5348.0, 5390.0, 5339.0, 5522.0, 5371.0, 5695.0, 5561.0, 5556.0, 5331.0, 5572.0, 5507.0, 5462.0, 5638.0, 5395.0, 5610.0, 5589.0, 5379.0, 5408.0, 5354.0, 5673.0, 5612.0, 5594.0, 5667.0, 5342.0, 5493.0, 5553.0, 5364.0, 5485.0, 5317.0, 5432.0, 5298.0, 5656.0, 5495.0, 5294.0, 5518.0, 5451.0, 5685.0, 5538.0, 5703.0, 5567.0, 5394.0, 5400.0, 5336.0, 5681.0, 5275.0, 5274.0, 5260.0, 5616.0, 5549.0, 5712.0, 5663.0, 5469.0, 5609.0, 5363.0, 5710.0, 5431.0, 5257.0, 5380.0, 5438.0, 5328.0, 5320.0, 5272.0, 5358.0, 5414.0, 5595.0, 5456.0, 5680.0, 5676.0, 5617.0, 5279.0, 5614.0, 5285.0, 5628.0, 5537.0, 5290.0, 5523.0, 5494.0, 5528.0, 5534.0, 5705.0, 5447.0, 5700.0, 5688.0, 5399.0, 5646.0, 5378.0, 5311.0, 5500.0, 5455.0 (number of hits: 8)
11	5270	9	1	333	1	5427.0, 5585.0, 5712.0, 5662.0, 5499.0, 5617.0, 5333.0, 5368.0, 5250.0, 5609.0, 5508.0, 5622.0, 5651.0, 5709.0, 5268.0, 5421.0, 5338.0, 5416.0, 5426.0, 5631.0, 5377.0, 5433.0, 5372.0, 5543.0, 5541.0, 5660.0, 5648.0, 5589.0, 5442.0, 5422.0, 5542.0, 5710.0, 5478.0, 5460.0, 5620.0, 5556.0, 5697.0, 5467.0, 5597.0, 5281.0, 5576.0, 5685.0, 5527.0, 5581.0, 5420.0, 5628.0, 5285.0, 5364.0, 5488.0, 5301.0, 5392.0, 5343.0, 5608.0, 5470.0, 5587.0, 5532.0, 5332.0, 5475.0, 5645.0, 5468.0, 5722.0, 5418.0, 5716.0, 5596.0, 5274.0, 5717.0, 5708.0, 5666.0, 5282.0, 5568.0, 5298.0, 5446.0, 5277.0, 5510.0, 5373.0, 5512.0, 5671.0, 5471.0, 5574.0, 5549.0, 5378.0, 5679.0, 5698.0, 5370.0, 5309.0, 5330.0, 5550.0, 5401.0, 5286.0, 5436.0, 5607.0, 5270.0, 5495.0, 5357.0, 5414.0, 5339.0, 5720.0, 5335.0, 5564.0, 5623.0 (number of hits: 3)
12	5270	9	1	333	1	5456.0, 5408.0, 5263.0, 5596.0, 5673.0, 5660.0, 5443.0, 5655.0, 5698.0, 5341.0, 5670.0, 5672.0, 5544.0, 5272.0, 5252.0, 5641.0, 5257.0, 5522.0, 5482.0, 5455.0,

						5322.0, 5632.0, 5498.0, 5541.0, 5508.0, 5356.0, 5611.0, 5692.0, 5286.0, 5267.0, 5513.0, 5554.0, 5492.0, 5639.0, 5454.0, 5547.0, 5465.0, 5371.0, 5510.0, 5313.0, 5582.0, 5480.0, 5264.0, 5483.0, 5674.0, 5431.0, 5376.0, 5280.0, 5314.0, 5294.0, 5291.0, 5440.0, 5667.0, 5469.0, 5332.0, 5616.0, 5325.0, 5702.0, 5648.0, 5422.0, 5605.0, 5597.0, 5540.0, 5472.0, 5717.0, 5651.0, 5719.0, 5445.0, 5316.0, 5363.0, 5659.0, 5700.0, 5606.0, 5448.0, 5687.0, 5587.0, 5657.0, 5255.0, 5311.0, 5362.0, 5276.0, 5401.0, 5457.0, 5593.0, 5710.0, 5631.0, 5549.0, 5478.0, 5369.0, 5474.0, 5352.0, 5594.0, 5677.0, 5516.0, 5621.0, 5555.0, 5334.0, 5411.0, 5282.0, 5683.0 (number of hits: 8)
13	5270	9	1	333	1	5625.0, 5535.0, 5325.0, 5353.0, 5645.0, 5475.0, 5649.0, 5324.0, 5679.0, 5398.0, 5672.0, 5674.0, 5673.0, 5426.0, 5494.0, 5712.0, 5615.0, 5300.0, 5593.0, 5480.0, 5527.0, 5360.0, 5332.0, 5292.0, 5677.0, 5327.0, 5363.0, 5569.0, 5686.0, 5597.0, 5449.0, 5307.0, 5703.0, 5606.0, 5702.0, 5384.0, 5571.0, 5709.0, 5385.0, 5486.0, 5517.0, 5481.0, 5516.0, 5700.0, 5640.0, 5454.0, 5641.0, 5669.0, 5458.0, 5432.0, 5434.0, 5566.0, 5283.0, 5395.0, 5422.0, 5379.0, 5601.0, 5303.0, 5667.0, 5495.0, 5501.0, 5485.0, 5305.0, 5365.0, 5563.0, 5618.0, 5375.0, 5255.0, 5259.0, 5295.0, 5710.0, 5291.0, 5445.0, 5450.0, 5301.0, 5435.0, 5343.0, 5696.0, 5602.0, 5680.0, 5352.0, 5366.0, 5351.0, 5391.0, 5564.0, 5484.0, 5443.0, 5347.0, 5372.0, 5670.0, 5264.0, 5542.0, 5557.0, 5330.0, 5651.0, 5626.0, 5408.0, 5653.0, 5316.0, 5479.0 (number of hits: 12)
14	5270	9	1	333	1	5478.0, 5676.0, 5537.0, 5467.0, 5602.0, 5390.0, 5373.0, 5616.0, 5580.0, 5375.0, 5292.0, 5651.0, 5544.0, 5677.0, 5664.0, 5497.0, 5428.0, 5504.0, 5413.0, 5567.0, 5353.0, 5516.0, 5398.0, 5608.0, 5711.0, 5554.0, 5480.0, 5366.0, 5508.0, 5280.0, 5710.0, 5343.0, 5421.0, 5707.0, 5364.0, 5682.0, 5693.0, 5680.0, 5553.0, 5672.0, 5441.0, 5303.0, 5538.0, 5660.0, 5385.0, 5365.0, 5661.0, 5290.0, 5524.0, 5461.0, 5644.0, 5529.0, 5576.0, 5564.0, 5328.0, 5319.0, 5719.0, 5706.0, 5525.0, 5528.0, 5266.0, 5539.0, 5345.0, 5426.0, 5485.0, 5324.0, 5251.0, 5715.0, 5658.0, 5455.0, 5262.0, 5439.0, 5310.0, 5503.0, 5317.0, 5634.0, 5570.0, 5418.0, 5298.0, 5276.0, 5463.0, 5614.0, 5295.0, 5635.0, 5622.0, 5429.0, 5657.0, 5444.0, 5304.0, 5462.0, 5679.0, 5404.0, 5638.0, 5702.0, 5420.0, 5459.0, 5701.0, 5606.0, 5577.0, 5325.0 (number of hits: 12)
15	5270	9	1	333	1	5404.0, 5581.0, 5716.0, 5266.0, 5555.0,

						5679.0, 5398.0, 5635.0, 5570.0, 5257.0, 5471.0, 5274.0, 5391.0, 5491.0, 5710.0, 5559.0, 5395.0, 5253.0, 5315.0, 5601.0, 5322.0, 5374.0, 5386.0, 5488.0, 5497.0, 5402.0, 5514.0, 5314.0, 5708.0, 5661.0, 5486.0, 5261.0, 5494.0, 5300.0, 5416.0, 5552.0, 5410.0, 5558.0, 5436.0, 5671.0, 5700.0, 5390.0, 5425.0, 5706.0, 5674.0, 5401.0, 5525.0, 5574.0, 5469.0, 5569.0, 5549.0, 5611.0, 5392.0, 5467.0, 5521.0, 5659.0, 5328.0, 5299.0, 5518.0, 5393.0, 5615.0, 5292.0, 5496.0, 5604.0, 5448.0, 5443.0, 5600.0, 5660.0, 5571.0, 5476.0, 5634.0, 5331.0, 5538.0, 5697.0, 5255.0, 5251.0, 5354.0, 5721.0, 5433.0, 5541.0, 5515.0, 5332.0, 5639.0, 5320.0, 5523.0, 5687.0, 5691.0, 5369.0, 5333.0, 5503.0, 5382.0, 5269.0, 5364.0, 5724.0, 5622.0, 5637.0, 5397.0, 5537.0, 5334.0, 5254.0 (number of hits: 8)
16	5270	9	1	333	1	5352.0, 5540.0, 5495.0, 5669.0, 5547.0, 5523.0, 5328.0, 5556.0, 5526.0, 5587.0, 5685.0, 5442.0, 5573.0, 5361.0, 5321.0, 5389.0, 5501.0, 5509.0, 5586.0, 5325.0, 5285.0, 5306.0, 5429.0, 5658.0, 5320.0, 5469.0, 5343.0, 5400.0, 5541.0, 5649.0, 5409.0, 5479.0, 5438.0, 5418.0, 5279.0, 5388.0, 5367.0, 5310.0, 5461.0, 5300.0, 5450.0, 5559.0, 5640.0, 5413.0, 5545.0, 5670.0, 5639.0, 5712.0, 5280.0, 5393.0, 5337.0, 5251.0, 5266.0, 5271.0, 5593.0, 5579.0, 5415.0, 5273.0, 5379.0, 5581.0, 5487.0, 5319.0, 5650.0, 5309.0, 5377.0, 5349.0, 5292.0, 5327.0, 5711.0, 5401.0, 5508.0, 5254.0, 5440.0, 5308.0, 5567.0, 5575.0, 5471.0, 5312.0, 5549.0, 5371.0, 5667.0, 5631.0, 5564.0, 5497.0, 5619.0, 5303.0, 5408.0, 5601.0, 5635.0, 5602.0, 5651.0, 5528.0, 5385.0, 5710.0, 5584.0, 5494.0, 5571.0, 5599.0, 5456.0, 5538.0 (number of hits: 14)
17	5270	9	1	333	1	5457.0, 5370.0, 5596.0, 5503.0, 5656.0, 5454.0, 5296.0, 5274.0, 5705.0, 5673.0, 5388.0, 5694.0, 5284.0, 5495.0, 5488.0, 5570.0, 5547.0, 5428.0, 5450.0, 5320.0, 5260.0, 5659.0, 5309.0, 5633.0, 5489.0, 5266.0, 5497.0, 5490.0, 5480.0, 5663.0, 5280.0, 5528.0, 5412.0, 5713.0, 5337.0, 5272.0, 5589.0, 5487.0, 5358.0, 5477.0, 5686.0, 5321.0, 5333.0, 5455.0, 5584.0, 5449.0, 5508.0, 5657.0, 5638.0, 5461.0, 5288.0, 5664.0, 5577.0, 5360.0, 5398.0, 5344.0, 5361.0, 5425.0, 5592.0, 5632.0, 5714.0, 5335.0, 5413.0, 5424.0, 5668.0, 5340.0, 5600.0, 5367.0, 5541.0, 5558.0, 5618.0, 5290.0, 5256.0, 5559.0, 5671.0, 5709.0, 5436.0, 5591.0, 5522.0, 5406.0, 5393.0, 5601.0, 5517.0, 5529.0, 5590.0, 5269.0, 5505.0, 5719.0, 5327.0, 5530.0, 5546.0, 5724.0, 5365.0, 5470.0, 5504.0,

						5595.0, 5483.0, 5494.0, 5710.0, 5538.0 (number of hits: 6)
18	5270	9	1	333	1	5391.0, 5607.0, 5447.0, 5266.0, 5293.0, 5253.0, 5554.0, 5475.0, 5626.0, 5583.0, 5256.0, 5616.0, 5654.0, 5347.0, 5369.0, 5544.0, 5480.0, 5601.0, 5588.0, 5453.0, 5705.0, 5516.0, 5686.0, 5719.0, 5612.0, 5477.0, 5530.0, 5401.0, 5567.0, 5484.0, 5586.0, 5517.0, 5384.0, 5329.0, 5407.0, 5442.0, 5395.0, 5640.0, 5415.0, 5613.0, 5315.0, 5578.0, 5397.0, 5330.0, 5263.0, 5338.0, 5542.0, 5376.0, 5377.0, 5378.0, 5486.0, 5632.0, 5372.0, 5526.0, 5279.0, 5709.0, 5334.0, 5684.0, 5611.0, 5689.0, 5623.0, 5535.0, 5392.0, 5608.0, 5406.0, 5661.0, 5710.0, 5274.0, 5551.0, 5495.0, 5666.0, 5336.0, 5343.0, 5381.0, 5665.0, 5470.0, 5412.0, 5326.0, 5507.0, 5351.0, 5658.0, 5325.0, 5592.0, 5473.0, 5634.0, 5664.0, 5286.0, 5290.0, 5446.0, 5463.0, 5648.0, 5529.0, 5414.0, 5468.0, 5600.0, 5712.0, 5297.0, 5481.0, 5547.0, 5580.0 (number of hits: 7)
19	5270	9	1	333	1	5322.0, 5614.0, 5324.0, 5534.0, 5475.0, 5346.0, 5262.0, 5669.0, 5578.0, 5647.0, 5391.0, 5635.0, 5557.0, 5703.0, 5424.0, 5394.0, 5529.0, 5692.0, 5321.0, 5594.0, 5281.0, 5673.0, 5646.0, 5674.0, 5295.0, 5472.0, 5711.0, 5347.0, 5299.0, 5720.0, 5497.0, 5678.0, 5387.0, 5297.0, 5315.0, 5543.0, 5675.0, 5562.0, 5469.0, 5579.0, 5317.0, 5313.0, 5399.0, 5665.0, 5283.0, 5676.0, 5419.0, 5481.0, 5363.0, 5489.0, 5446.0, 5316.0, 5561.0, 5326.0, 5648.0, 5484.0, 5253.0, 5571.0, 5705.0, 5671.0, 5257.0, 5340.0, 5517.0, 5445.0, 5585.0, 5356.0, 5260.0, 5593.0, 5604.0, 5488.0, 5519.0, 5408.0, 5684.0, 5325.0, 5606.0, 5602.0, 5276.0, 5264.0, 5440.0, 5631.0, 5272.0, 5318.0, 5613.0, 5545.0, 5459.0, 5405.0, 5386.0, 5330.0, 5615.0, 5423.0, 5334.0, 5441.0, 5427.0, 5435.0, 5617.0, 5518.0, 5409.0, 5551.0, 5694.0, 5442.0 (number of hits: 13)
20	5270	9	1	333	1	5628.0, 5451.0, 5283.0, 5631.0, 5359.0, 5345.0, 5611.0, 5589.0, 5393.0, 5315.0, 5512.0, 5710.0, 5312.0, 5442.0, 5423.0, 5536.0, 5683.0, 5349.0, 5718.0, 5391.0, 5406.0, 5691.0, 5513.0, 5306.0, 5328.0, 5278.0, 5627.0, 5487.0, 5411.0, 5261.0, 5265.0, 5300.0, 5687.0, 5409.0, 5318.0, 5392.0, 5610.0, 5366.0, 5324.0, 5346.0, 5521.0, 5333.0, 5606.0, 5412.0, 5713.0, 5433.0, 5622.0, 5658.0, 5657.0, 5665.0, 5558.0, 5350.0, 5510.0, 5651.0, 5380.0, 5635.0, 5476.0, 5541.0, 5384.0, 5537.0, 5327.0, 5368.0, 5271.0, 5720.0, 5507.0, 5704.0, 5600.0, 5546.0, 5282.0, 5293.0, 5588.0, 5436.0, 5630.0, 5396.0, 5495.0, 5644.0, 5325.0, 5549.0, 5528.0, 5523.0,

						5281.0, 5712.0, 5650.0, 5636.0, 5277.0, 5503.0, 5337.0, 5494.0, 5471.0, 5572.0, 5511.0, 5525.0, 5501.0, 5372.0, 5477.0, 5703.0, 5551.0, 5649.0, 5304.0, 5597.0 (number of hits: 11)
21	5270	9	1	333	1	5381.0, 5678.0, 5419.0, 5333.0, 5375.0, 5323.0, 5431.0, 5283.0, 5684.0, 5526.0, 5430.0, 5328.0, 5450.0, 5464.0, 5529.0, 5487.0, 5307.0, 5533.0, 5391.0, 5338.0, 5315.0, 5385.0, 5502.0, 5486.0, 5579.0, 5395.0, 5720.0, 5422.0, 5645.0, 5582.0, 5463.0, 5659.0, 5718.0, 5386.0, 5709.0, 5702.0, 5637.0, 5358.0, 5268.0, 5339.0, 5548.0, 5682.0, 5362.0, 5610.0, 5717.0, 5543.0, 5573.0, 5438.0, 5551.0, 5272.0, 5324.0, 5497.0, 5535.0, 5571.0, 5256.0, 5642.0, 5539.0, 5559.0, 5643.0, 5546.0, 5336.0, 5423.0, 5363.0, 5398.0, 5279.0, 5445.0, 5490.0, 5687.0, 5455.0, 5686.0, 5306.0, 5377.0, 5665.0, 5285.0, 5608.0, 5304.0, 5690.0, 5481.0, 5521.0, 5276.0, 5618.0, 5542.0, 5577.0, 5600.0, 5581.0, 5439.0, 5258.0, 5639.0, 5468.0, 5638.0, 5544.0, 5259.0, 5303.0, 5482.0, 5708.0, 5474.0, 5390.0, 5408.0, 5504.0, 5467.0 (number of hits: 8)
22	5270	9	1	333	1	5628.0, 5340.0, 5684.0, 5615.0, 5714.0, 5510.0, 5629.0, 5301.0, 5257.0, 5655.0, 5505.0, 5711.0, 5661.0, 5446.0, 5365.0, 5426.0, 5531.0, 5399.0, 5425.0, 5284.0, 5494.0, 5551.0, 5386.0, 5369.0, 5272.0, 5681.0, 5721.0, 5445.0, 5428.0, 5574.0, 5424.0, 5632.0, 5569.0, 5325.0, 5278.0, 5537.0, 5454.0, 5578.0, 5690.0, 5539.0, 5594.0, 5294.0, 5600.0, 5371.0, 5627.0, 5258.0, 5621.0, 5677.0, 5555.0, 5718.0, 5550.0, 5307.0, 5289.0, 5323.0, 5643.0, 5322.0, 5462.0, 5279.0, 5433.0, 5611.0, 5311.0, 5546.0, 5317.0, 5463.0, 5686.0, 5564.0, 5253.0, 5654.0, 5598.0, 5565.0, 5665.0, 5490.0, 5344.0, 5486.0, 5568.0, 5280.0, 5297.0, 5534.0, 5599.0, 5312.0, 5593.0, 5309.0, 5694.0, 5316.0, 5542.0, 5572.0, 5417.0, 5692.0, 5634.0, 5687.0, 5724.0, 5459.0, 5374.0, 5691.0, 5685.0, 5489.0, 5388.0, 5265.0, 5506.0, 5439.0 (number of hits: 12)
23	5270	9	1	333	1	5442.0, 5659.0, 5624.0, 5633.0, 5449.0, 5514.0, 5665.0, 5615.0, 5392.0, 5702.0, 5257.0, 5333.0, 5295.0, 5403.0, 5641.0, 5253.0, 5418.0, 5503.0, 5371.0, 5716.0, 5508.0, 5684.0, 5569.0, 5516.0, 5356.0, 5628.0, 5310.0, 5723.0, 5675.0, 5711.0, 5629.0, 5306.0, 5513.0, 5621.0, 5589.0, 5647.0, 5377.0, 5342.0, 5495.0, 5258.0, 5330.0, 5451.0, 5708.0, 5492.0, 5627.0, 5661.0, 5381.0, 5681.0, 5543.0, 5588.0, 5523.0, 5546.0, 5542.0, 5688.0, 5635.0, 5460.0, 5298.0, 5365.0, 5435.0, 5692.0, 5287.0, 5694.0, 5407.0, 5423.0, 5705.0,

						5405.0, 5476.0, 5577.0, 5448.0, 5467.0, 5319.0, 5515.0, 5493.0, 5563.0, 5565.0, 5386.0, 5668.0, 5646.0, 5469.0, 5502.0, 5666.0, 5658.0, 5507.0, 5410.0, 5534.0, 5372.0, 5401.0, 5656.0, 5541.0, 5415.0, 5468.0, 5277.0, 5364.0, 5343.0, 5488.0, 5428.0, 5459.0, 5446.0, 5578.0, 5320.0 (number of hits: 6)
24	5270	9	1	333	1	5455.0, 5389.0, 5590.0, 5520.0, 5344.0, 5601.0, 5448.0, 5259.0, 5591.0, 5645.0, 5382.0, 5724.0, 5454.0, 5269.0, 5371.0, 5678.0, 5280.0, 5268.0, 5688.0, 5486.0, 5609.0, 5385.0, 5712.0, 5277.0, 5425.0, 5335.0, 5379.0, 5438.0, 5577.0, 5484.0, 5327.0, 5265.0, 5300.0, 5544.0, 5466.0, 5539.0, 5644.0, 5307.0, 5637.0, 5661.0, 5522.0, 5660.0, 5347.0, 5411.0, 5308.0, 5464.0, 5672.0, 5628.0, 5325.0, 5461.0, 5381.0, 5509.0, 5717.0, 5339.0, 5343.0, 5516.0, 5622.0, 5416.0, 5649.0, 5604.0, 5496.0, 5716.0, 5695.0, 5399.0, 5323.0, 5560.0, 5670.0, 5450.0, 5639.0, 5330.0, 5538.0, 5363.0, 5588.0, 5602.0, 5477.0, 5304.0, 5581.0, 5485.0, 5423.0, 5531.0, 5521.0, 5310.0, 5429.0, 5368.0, 5287.0, 5437.0, 5320.0, 5500.0, 5273.0, 5478.0, 5351.0, 5696.0, 5319.0, 5596.0, 5456.0, 5397.0, 5608.0, 5687.0, 5482.0, 5396.0 (number of hits: 10)
25	5270	9	1	333	1	5333.0, 5255.0, 5292.0, 5346.0, 5507.0, 5328.0, 5262.0, 5418.0, 5329.0, 5494.0, 5455.0, 5400.0, 5644.0, 5349.0, 5480.0, 5651.0, 5621.0, 5464.0, 5445.0, 5368.0, 5433.0, 5710.0, 5511.0, 5564.0, 5482.0, 5639.0, 5313.0, 5303.0, 5574.0, 5496.0, 5720.0, 5693.0, 5700.0, 5288.0, 5676.0, 5569.0, 5286.0, 5626.0, 5529.0, 5472.0, 5554.0, 5516.0, 5629.0, 5362.0, 5439.0, 5598.0, 5705.0, 5388.0, 5502.0, 5340.0, 5350.0, 5476.0, 5257.0, 5409.0, 5316.0, 5360.0, 5392.0, 5434.0, 5453.0, 5716.0, 5724.0, 5447.0, 5357.0, 5596.0, 5711.0, 5488.0, 5353.0, 5338.0, 5317.0, 5416.0, 5549.0, 5519.0, 5662.0, 5483.0, 5363.0, 5397.0, 5306.0, 5440.0, 5300.0, 5471.0, 5398.0, 5267.0, 5451.0, 5612.0, 5602.0, 5600.0, 5299.0, 5253.0, 5444.0, 5373.0, 5277.0, 5696.0, 5557.0, 5379.0, 5335.0, 5345.0, 5369.0, 5712.0, 5491.0, 5504.0 (number of hits: 10)
26	5270	9	1	333	1	5380.0, 5536.0, 5376.0, 5584.0, 5253.0, 5520.0, 5542.0, 5448.0, 5370.0, 5276.0, 5699.0, 5422.0, 5420.0, 5340.0, 5279.0, 5647.0, 5275.0, 5449.0, 5585.0, 5694.0, 5654.0, 5267.0, 5492.0, 5547.0, 5408.0, 5534.0, 5648.0, 5375.0, 5500.0, 5363.0, 5676.0, 5475.0, 5498.0, 5273.0, 5722.0, 5317.0, 5646.0, 5477.0, 5412.0, 5517.0, 5476.0, 5587.0, 5384.0, 5381.0, 5459.0, 5347.0, 5372.0, 5639.0, 5286.0, 5323.0,

						5468.0, 5616.0, 5545.0, 5374.0, 5485.0, 5653.0, 5612.0, 5692.0, 5608.0, 5580.0, 5361.0, 5471.0, 5560.0, 5552.0, 5402.0, 5716.0, 5404.0, 5465.0, 5400.0, 5425.0, 5413.0, 5453.0, 5553.0, 5252.0, 5581.0, 5603.0, 5445.0, 5392.0, 5301.0, 5441.0, 5623.0, 5521.0, 5519.0, 5440.0, 5678.0, 5589.0, 5328.0, 5657.0, 5299.0, 5649.0, 5530.0, 5437.0, 5572.0, 5529.0, 5405.0, 5434.0, 5274.0, 5531.0, 5442.0, 5700.0 (number of hits: 5)
27	5270	9	1	333	1	5261.0, 5402.0, 5709.0, 5482.0, 5368.0, 5419.0, 5346.0, 5256.0, 5591.0, 5543.0, 5496.0, 5576.0, 5366.0, 5706.0, 5574.0, 5468.0, 5708.0, 5668.0, 5617.0, 5711.0, 5384.0, 5306.0, 5613.0, 5341.0, 5558.0, 5265.0, 5597.0, 5652.0, 5610.0, 5381.0, 5673.0, 5282.0, 5339.0, 5454.0, 5250.0, 5522.0, 5324.0, 5298.0, 5703.0, 5500.0, 5487.0, 5588.0, 5359.0, 5378.0, 5571.0, 5699.0, 5258.0, 5599.0, 5510.0, 5345.0, 5712.0, 5467.0, 5533.0, 5473.0, 5675.0, 5604.0, 5491.0, 5515.0, 5415.0, 5677.0, 5488.0, 5380.0, 5274.0, 5471.0, 5301.0, 5436.0, 5276.0, 5320.0, 5666.0, 5718.0, 5531.0, 5439.0, 5563.0, 5523.0, 5349.0, 5633.0, 5674.0, 5302.0, 5478.0, 5457.0, 5565.0, 5263.0, 5519.0, 5679.0, 5645.0, 5293.0, 5362.0, 5393.0, 5295.0, 5585.0, 5642.0, 5459.0, 5377.0, 5288.0, 5579.0, 5570.0, 5426.0, 5399.0, 5534.0, 5593.0 (number of hits: 8)
28	5270	9	1	333	1	5690.0, 5652.0, 5487.0, 5365.0, 5256.0, 5406.0, 5409.0, 5379.0, 5319.0, 5270.0, 5647.0, 5297.0, 5280.0, 5605.0, 5305.0, 5326.0, 5345.0, 5376.0, 5328.0, 5602.0, 5566.0, 5562.0, 5347.0, 5271.0, 5352.0, 5265.0, 5298.0, 5299.0, 5472.0, 5601.0, 5589.0, 5510.0, 5275.0, 5301.0, 5507.0, 5536.0, 5339.0, 5358.0, 5479.0, 5452.0, 5369.0, 5446.0, 5631.0, 5702.0, 5524.0, 5529.0, 5447.0, 5470.0, 5570.0, 5553.0, 5314.0, 5455.0, 5656.0, 5583.0, 5465.0, 5478.0, 5405.0, 5355.0, 5407.0, 5258.0, 5459.0, 5558.0, 5486.0, 5632.0, 5362.0, 5666.0, 5292.0, 5382.0, 5568.0, 5393.0, 5306.0, 5307.0, 5422.0, 5585.0, 5612.0, 5451.0, 5384.0, 5496.0, 5367.0, 5500.0, 5590.0, 5364.0, 5322.0, 5534.0, 5596.0, 5390.0, 5431.0, 5714.0, 5463.0, 5442.0, 5643.0, 5383.0, 5397.0, 5497.0, 5696.0, 5456.0, 5540.0, 5597.0, 5461.0, 5499.0 (number of hits: 13)
29	5270	9	1	333	1	5409.0, 5664.0, 5632.0, 5535.0, 5351.0, 5263.0, 5531.0, 5327.0, 5600.0, 5682.0, 5396.0, 5634.0, 5403.0, 5536.0, 5482.0, 5656.0, 5305.0, 5307.0, 5564.0, 5401.0, 5679.0, 5502.0, 5343.0, 5636.0, 5281.0, 5272.0, 5592.0, 5523.0, 5445.0, 5404.0, 5335.0, 5468.0, 5383.0, 5331.0, 5478.0,

						5671.0, 5627.0, 5466.0, 5422.0, 5337.0, 5361.0, 5601.0, 5277.0, 5648.0, 5717.0, 5583.0, 5299.0, 5626.0, 5384.0, 5408.0, 5338.0, 5527.0, 5257.0, 5411.0, 5294.0, 5333.0, 5312.0, 5672.0, 5425.0, 5530.0, 5615.0, 5608.0, 5709.0, 5699.0, 5279.0, 5641.0, 5366.0, 5270.0, 5609.0, 5621.0, 5663.0, 5423.0, 5669.0, 5431.0, 5319.0, 5604.0, 5550.0, 5701.0, 5646.0, 5715.0, 5558.0, 5628.0, 5706.0, 5545.0, 5290.0, 5584.0, 5691.0, 5325.0, 5474.0, 5705.0, 5255.0, 5507.0, 5481.0, 5723.0, 5582.0, 5522.0, 5538.0, 5256.0, 5611.0, 5387.0 (number of hits: 9)
30	5270	9	1	333	1	5397.0, 5525.0, 5500.0, 5252.0, 5551.0, 5502.0, 5661.0, 5635.0, 5364.0, 5329.0, 5454.0, 5671.0, 5363.0, 5544.0, 5316.0, 5649.0, 5349.0, 5657.0, 5641.0, 5703.0, 5524.0, 5692.0, 5434.0, 5402.0, 5546.0, 5559.0, 5459.0, 5684.0, 5285.0, 5456.0, 5340.0, 5330.0, 5699.0, 5538.0, 5533.0, 5662.0, 5391.0, 5659.0, 5485.0, 5271.0, 5514.0, 5327.0, 5600.0, 5315.0, 5554.0, 5565.0, 5594.0, 5299.0, 5597.0, 5707.0, 5674.0, 5444.0, 5595.0, 5686.0, 5541.0, 5334.0, 5473.0, 5596.0, 5611.0, 5534.0, 5634.0, 5350.0, 5284.0, 5376.0, 5476.0, 5261.0, 5431.0, 5512.0, 5328.0, 5269.0, 5586.0, 5548.0, 5378.0, 5622.0, 5287.0, 5626.0, 5637.0, 5280.0, 5321.0, 5571.0, 5281.0, 5401.0, 5294.0, 5566.0, 5288.0, 5320.0, 5360.0, 5405.0, 5255.0, 5312.0, 5304.0, 5442.0, 5583.0, 5411.0, 5714.0, 5388.0, 5273.0, 5709.0, 5344.0, 5283.0 (number of hits: 11)

5550 MHz, 40 MHz Bandwidth

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

Please refer to the following statistical tables:

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

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5550	74	1	718	1
2	5550	92	1	578	1
3	5550	99	1	538	1
4	5550	89	1	598	1
5	5550	67	1	798	1
6	5550	83	1	638	1
7	5550	95	1	558	1
8	5550	78	1	678	1
9	5550	76	1	698	1
10	5550	86	1	618	1
11	5550	59	1	898	1
12	5550	57	1	938	1
13	5550	18	1	3066	1
14	5550	102	1	518	1
15	5550	63	1	838	1
16	5550	79	1	671	1
17	5550	22	1	2426	1
18	5550	20	1	2762	1
19	5550	29	1	1876	1
20	5550	20	1	2722	1
21	5550	25	1	2115	1
22	5550	32	1	1682	1
23	5550	23	1	2341	1
24	5550	54	1	994	1
25	5550	55	1	971	1
26	5550	43	1	1242	1
27	5550	84	1	634	1
28	5550	69	1	768	1
29	5550	81	1	656	1
30	5550	44	1	1218	1
Detection Percentage: 100 % (>60%)					

Table-2 Radar Type 2 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5550	28	3.1	168	1
2	5550	23	2.7	171	1
3	5550	25	4.2	169	1
4	5550	23	2	223	1
5	5550	23	4.6	193	1
6	5550	26	2.5	193	1
7	5550	27	2.7	175	1
8	5550	24	1.5	181	1
9	5550	24	4.5	195	1
10	5550	27	3.3	163	1
11	5550	24	5	190	1
12	5550	28	1.8	185	1
13	5550	27	3.8	150	1
14	5550	27	3.1	201	1
15	5550	25	3.8	207	1
16	5550	29	2.4	214	1
17	5550	27	3.9	170	1
18	5550	23	4	174	1
19	5550	24	3.4	194	1
20	5550	25	3.5	225	1
21	5550	28	1.8	207	1
22	5550	23	3.5	175	1
23	5550	24	2.4	164	1
24	5550	24	4.9	210	1
25	5550	29	2.7	218	1
26	5550	28	1.1	167	1
27	5550	23	1.5	189	1
28	5550	29	2.8	204	1
29	5550	26	3.6	196	1
30	5550	23	4.6	162	1
Detection Percentage: 100 % (>60%)					

Table-3 Radar Type 3 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5550	18	9.7	250	1
2	5550	16	6.7	401	1
3	5550	16	9.1	462	1
4	5550	16	9.7	411	1
5	5550	18	9	265	1
6	5550	17	9.5	386	1
7	5550	18	8.8	478	1
8	5550	18	9.9	298	1
9	5550	16	9.9	458	1
10	5550	18	10	284	1
11	5550	17	7.5	345	1
12	5550	16	6	465	1
13	5550	18	7.6	351	1
14	5550	17	8.8	491	1
15	5550	16	6.5	349	1
16	5550	18	8.8	357	1
17	5550	17	9.7	351	1
18	5550	17	9	444	1
19	5550	17	6.5	427	1
20	5550	16	9.8	218	1
21	5550	17	6.1	455	1
22	5550	16	8.9	291	1
23	5550	18	6.2	497	1
24	5550	17	6.8	242	1
25	5550	16	6.8	263	1
26	5550	17	6.9	307	1
27	5550	17	8.2	432	1
28	5550	17	7.3	392	1
29	5550	16	6.5	225	1
30	5550	18	6.6	486	1
Detection Percentage: 100 % (>60%)					

Table-4 Radar Type 4 Statistical Performance

Trial #	Fc (MHz)	Pulse/Burst	Pulse Width (µS)	PRI (µs)	Detection (1:yes; 0:no)
1	5550	14	16.7	265	1
2	5550	15	16.8	366	1
3	5550	15	11.8	337	1
4	5550	13	15.1	485	1
5	5550	14	19.8	331	1
6	5550	12	11.4	432	1
7	5550	13	18.8	427	1
8	5550	14	16.1	444	1
9	5550	16	16.2	293	1
10	5550	12	14.4	255	1
11	5550	13	13.2	342	1
12	5550	13	11.8	467	1
13	5550	16	17.9	460	1
14	5550	13	13	207	1
15	5550	14	12.8	351	1
16	5550	12	16.8	223	1
17	5550	16	18.5	440	1
18	5550	16	14	435	1
19	5550	15	19.7	307	1
20	5550	14	18.4	456	1
21	5550	15	13.3	351	1
22	5550	13	15.3	320	1
23	5550	14	14.9	286	1
24	5550	12	19.1	459	1
25	5550	16	14.2	455	1
26	5550	13	19.6	453	1
27	5550	14	19.3	308	1
28	5550	16	13.5	208	1
29	5550	16	16.9	290	1
30	5550	15	16.6	253	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	5	51.9	1516		0.092063	
1	3	7	66.3	1808	1975	1.169133	
2	2	16	89.5	1901		1.224538	
3	2	10	73.9	1380		2.005666	
4	1	14	85.3			2.802488	
5	1	5	50.7			3.032808	
6	2	10	61.7	1944		3.674667	
7	2	10	62.3	1859		4.264793	
8	2	5	65.9	1182		5.145014	
9	1	16	86.2			5.554667	
10	1	17	63.4			6.26852	1
11	1	9	78			6.791147	
12	3	10	91.5	1635	1118	7.580244	
13	2	6	65.7	1070		8.122211	
14	2	8	78.5	1908		8.751273	
15	2	16	87.3	1451		9.495747	
16	3	17	67.4	1512	1530	10.007529	
17	2	5	57.5	1888		10.498419	
18	2	6	52.4	1094		11.166288	
19	2	14	53.5	1925		11.480453	

Bin5 Statistics 2

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	10	61.5	1556	1092	0.242396	1
1	3	17	54	1106	1221	0.843607	
2	3	7	85.1	1034	1199	1.685988	
3	2	10	51.1	1209		1.989327	
4	3	17	57.9	1357	1301	2.497308	
5	1	10	89.5			3.404881	
6	3	11	91.3	1894	1636	3.738961	
7	1	12	58.7			4.217118	
8	3	8	53.3	1549	1497	5.25897	
9	2	14	52.2	1356		5.986365	
10	2	9	57.4	1901		6.562666	
11	1	15	69.7			7.032894	
12	1	13	77.8			7.440331	
13	2	13	73.8	1794		8.374135	
14	2	14	94.5	1447		8.989586	
15	1	12	96			9.481688	
16	2	9	63	1049		9.618606	
17	1	10	72			10.694451	
18	3	6	73.9	1390	1727	11.383177	
19	2	10	70.8	1955		11.867646	

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	11	63.4	1096		0.634071	1
1	2	11	81.7	1056		1.309625	
2	3	8	82.4	1379	1520	2.571747	
3	1	19	80.6			3.487131	
4	2	8	74.7	1404		5.036389	
5	2	17	68.4	1690		6.366915	
6	2	13	91.3	1706		7.225204	
7	2	15	74.3	1129		8.410009	
8	3	9	69	1909	1260	9.54144	
9	2	5	65.3	1414		10.794324	
10	3	18	80.3	1750	1295	11.518563	

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	19	64.5	1483		0.518176	
1	2	8	88.8	1090		1.136887	
2	1	7	88.9			2.295633	
3	2	15	74	1086		2.463052	
4	3	5	78.5	1920	1843	3.457875	
5	1	6	91.2			4.564018	
6	1	9	93.9			5.225084	
7	2	15	58.8	1599		6.007087	1
8	3	10	61.3	1071	1057	7.138826	
9	2	6	60.1	1647		7.379523	
10	1	10	88.3			8.162499	
11	2	16	69.5	1756		9.153079	
12	3	8	71.3	1247	1157	10.102439	
13	2	12	50.5	1665		10.55426	
14	2	14	82	1768		11.421073	

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	17	58.6	1759	1645	0.086394	
1	1	9	67.7			0.780725	
2	2	19	88.3	1331		1.537272	
3	1	6	97			1.880124	
4	2	18	68.3	1982		2.833648	
5	2	17	86.7	1646		3.405279	
6	1	16	95.2			3.748538	
7	3	15	54	1600	1134	4.248468	
8	1	8	69.4			5.327301	
9	2	12	80.3	1023		5.82951	
10	3	10	96.5	1936	1537	6.136203	1
11	2	11	77.5	1665		6.878448	
12	3	15	86.6	1805	1751	7.672233	
13	2	10	82	1020		7.832685	
14	2	11	83.3	1144		8.880449	
15	3	8	85.4	1950	1382	9.022482	
16	3	12	99.5	1202	1239	10.1071	
17	2	8	81.1	1968		10.778016	
18	3	19	97.7	1425	1707	11.051524	
19	2	19	66.5	1781		11.435382	

Bin5 Statistics 6

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	16	55.1	1054		0.044958	
1	1	7	87.3			1.812455	
2	3	16	69	1522	1912	2.788415	
3	2	10	62.2	1150		4.239463	
4	2	13	84.6	1059		6.539323	1
5	2	9	83	1033		7.816783	
6	3	19	55.9	1161	1795	8.630481	
7	3	19	62.9	1930	1431	9.971245	
8	2	10	81.8	1230		11.764935	

Bin5 Statistics 7

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	8	82			1.136731	
1	1	10	84			2.269225	
2	2	9	85.5	1968		3.79804	
3	1	9	94.5			4.932031	
4	3	12	86	1614	1202	6.242985	1
5	1	16	71.1			6.896547	
6	2	17	99.2	1004		9.105367	
7	2	13	96.4	1544		10.39191	
8	1	17	61			11.178249	

Bin5 Statistics 8

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	14	55.8	1698	1565	0.54991	
1	2	6	60.6	1005		0.877647	
2	2	16	71.4	1548		2.27398	
3	3	9	65	1703	1484	2.57097	
4	3	11	78.9	1098	1379	3.854922	
5	2	10	93.5	1928		4.033213	
6	1	18	72			4.872573	
7	2	17	54	1705		6.385029	1
8	2	18	86	1746		6.651366	
9	2	11	87.2	1118		7.478358	
10	1	12	73			8.777377	
11	2	14	79.4	1679		9.394037	
12	2	11	86.5	1851		10.317391	
13	2	15	84.3	1203		11.173	
14	2	19	96.5	1729		11.947343	

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	18	60.9	1397		0.470489	
1	2	11	83.2	1662		1.097143	
2	2	6	86.9	1213		2.619512	
3	1	15	91.7			3.044809	
4	3	16	79.3	1723	1267	3.970405	
5	1	12	80.8			5.329385	
6	3	16	91.8	1663	1882	5.640577	1
7	2	9	88.4	1816		6.854432	
8	2	8	90.6	1962		7.505544	
9	2	7	51.9	1005		8.367151	
10	3	6	85.3	1739	1931	9.236141	
11	3	12	80	1697	1418	10.606374	
12	3	6	78.4	1850	1468	11.806772	

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	5	53.1	1673		0.850978	
1	2	6	70.2	1933		1.681986	
2	3	10	70.1	1566	1277	1.881243	
3	1	11	50.1			2.8436	
4	3	19	56.3	1229	1403	4.01259	
5	1	6	83.1			4.855179	
6	3	20	51.4	1400	1700	5.200271	
7	3	17	57.1	1098	1659	6.066964	1
8	2	16	87.3	1712		7.584921	
9	2	10	72.9	1019		8.23856	
10	2	6	51.8	1642		8.663771	
11	3	11	75.8	1365	1130	9.794458	
12	2	19	79.8	1119		10.511052	
13	2	17	70.6	1545		11.208815	

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	14	76.9	1226		0.121122	
1	1	8	58.7			0.662208	
2	3	14	98.9	1001	1421	1.405699	
3	2	7	77.6	1334		2.426292	
4	3	19	65.8	1947	1698	2.912059	
5	3	18	92.8	1374	1612	3.330296	
6	3	17	55.5	1028	1782	4.313577	
7	3	17	95.6	1551	1556	4.54418	
8	2	12	96.5	1475		5.107616	
9	1	15	77.3			5.939652	
10	2	19	70.8	1363		6.839373	1
11	2	12	89.4	1549		7.158211	
12	3	14	99	1420	1575	8.180618	
13	3	11	90.3	1786	1516	8.805491	
14	2	19	94.5	1240		9.216021	
15	2	20	80.2	1961		10.015044	
16	2	9	70	1882		10.68301	
17	2	17	86.4	1157		10.859649	
18	2	9	99	1947		11.437558	

Bin5 Statistics 12

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	10	86.3			0.157378	
1	2	11	58.9	1291		0.610116	
2	2	19	78.2	1190		1.333731	
3	2	14	63.1	1629		2.3291	
4	2	14	93.6	1483		2.828664	
5	1	16	77.9			3.18618	
6	2	10	56.6	1299		3.722547	
7	2	8	76.4	1909		4.554483	
8	1	18	87.9			4.91306	
9	2	6	84.1	1653		5.67946	
10	2	16	75	1261		6.204446	1
11	3	10	63.1	1067	1392	6.823475	
12	1	19	50.1			7.332893	
13	2	11	78.4	1763		7.830532	
14	3	13	94.6	1768	1300	8.448657	
15	1	10	57			9.279052	
16	3	5	54.2	1212	1381	10.062636	
17	2	18	85.8	1039		10.272564	
18	1	16	60.9			11.359669	
19	2	9	71.7	1213		11.44672	

Bin5 Statistics 13

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	11	80.5			0.668064	
1	1	7	97.3			1.536674	
2	2	11	80.8	1993		2.473033	
3	2	8	93.4	1981		3.923273	
4	3	14	97.8	1827	1473	4.611252	
5	1	6	59.2			5.82583	1
6	3	7	58.7	1504	1713	7.568044	
7	3	17	83.2	1120	1702	7.756606	
8	3	5	82.7	1433	1079	9.789483	
9	1	5	92.3			9.851358	
10	3	12	72.9	1367	1851	11.474245	

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	54			0.633065	1
1	1	6	89.1			1.479601	
2	3	7	91.1	1712	1025	1.788025	
3	2	18	67.5	1347		2.413572	
4	2	19	78.2	1525		3.152924	
5	2	13	90	1320		3.889831	
6	2	13	91.3	1347		5.030156	
7	2	17	94.8	1870		5.298213	
8	1	20	94.2			6.718047	
9	2	15	51.8	1857		7.30269	
10	3	5	83	1330	1552	8.197523	
11	3	13	78.1	1444	1195	8.397471	
12	1	18	73.1			9.598391	
13	1	7	98.5			10.103752	
14	1	20	88.9			10.928203	
15	1	15	83.5			11.502774	

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	6	73.4			0.466037	1
1	2	20	61.9	1426		1.47668	
2	2	18	54.6	1937		1.983151	
3	1	17	85.2			3.019409	
4	2	9	62.4	1572		3.872359	
5	2	15	85.3	1526		4.163032	
6	3	7	66.8	1662	1571	5.239979	
7	2	11	50.4	1243		6.380839	
8	3	17	89.1	1894	1392	6.756259	
9	2	5	96.1	1375		7.232371	
10	1	13	81.7			8.330795	
11	1	18	65.4			9.437772	
12	2	14	53.8	1176		10.090414	
13	2	6	93.9	1326		10.753265	
14	2	10	74.1	1779		11.56376	

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	6	51.6	1243		0.613564	
1	2	15	79.8	1636		1.404185	
2	1	7	51.4			1.972519	
3	2	15	90.3	1553		3.001994	
4	3	10	63.5	1724	1407	3.409199	
5	3	18	71.9	1798	1597	4.056971	
6	2	10	64	1119		5.399009	
7	2	13	67.5	1082		5.813408	1
8	2	10	71	1696		6.40604	
9	3	15	76.9	1571	1907	7.896633	
10	1	13	91.8			8.673494	
11	2	6	57.3	1878		9.053866	
12	1	6	77.9			9.628162	
13	2	16	87.4	1009		11.080527	
14	1	9	52			11.456208	

Bin5 Statistics 17

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	16	52.6	1806		0.017622	
1	2	17	73.6	1711		1.411032	
2	3	16	67.3	1346	1371	2.524417	
3	2	20	79.4	1703		2.71612	
4	2	9	73.8	1724		4.277998	
5	1	10	57.9			4.810292	
6	2	5	73.6	1191		5.156237	
7	2	6	74	1541		6.464125	1
8	3	17	94.1	1917	1938	7.617415	
9	2	10	66	1957		7.754438	
10	2	16	98.1	1607		9.033038	
11	1	7	51.1			9.445425	
12	2	11	62.5	1253		10.965494	
13	2	16	85	1148		11.283605	

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	19	92.2	1236		0.280894	
1	1	16	95.7			1.208577	
2	2	10	55	1166		1.49521	
3	2	12	93.8	1116		1.937533	
4	3	17	82.8	1286	1803	3.008435	
5	2	15	64.3	1395		3.182258	
6	1	18	53.4			3.939859	
7	2	17	72.6	1256		5.01491	
8	3	7	51.7	1064	1539	5.266449	
9	1	16	73.8			5.906471	1
10	2	10	96.6	1723		6.32332	
11	2	10	58.3	1638		7.073584	
12	3	20	98.8	1254	1736	7.752459	
13	1	20	89.4			8.222638	
14	2	16	59.7	1080		9.221794	
15	2	17	53.5	1478		10.026379	
16	2	11	92.8	1472		10.667182	
17	3	11	94.6	1214	1904	11.267163	
18	2	6	69.7	1745		11.524514	

Bin5 Statistics 19

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	8	86.7	1983	1162	0.376537	1
1	3	14	54.8	1484	1848	0.863587	
2	3	9	84.5	1803	1848	1.346909	
3	2	17	76.1	1573		1.852483	
4	2	12	70.6	1258		2.641603	
5	2	16	57.9	1930		3.27212	
6	2	11	85.7	1275		3.713709	
7	2	19	90.6	1274		4.630303	
8	2	18	57.3	1017		5.281261	
9	2	10	78.1	1801		5.618911	
10	1	19	83.9			6.458855	
11	2	20	82.2	1961		7.159586	
12	3	6	97.5	1488	1287	7.486436	
13	3	16	90.7	1012	1143	7.94885	
14	2	7	84.4	1850		8.74006	
15	1	11	91.4			9.30157	
16	2	6	94.5	1147		9.737601	
17	3	16	89	1493	1195	10.51609	
18	2	15	72.6	1274		11.023357	
19	1	14	92.6			11.611304	

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	8	85.7	1996	1121	0.524243	1
1	2	17	66.9	1689		1.128107	
2	3	14	84	1523	1685	1.432978	
3	2	5	78.8	1324		2.27531	
4	2	11	77.5	1076		2.846544	
5	3	18	56.6	1620	1525	3.412707	
6	1	14	96.3			4.051973	
7	1	9	85.6			4.860854	
8	2	8	90.1	1881		5.708476	
9	1	15	80.8			6.275358	
10	1	12	96.6			7.102928	
11	3	15	87.2	1563	1107	7.934363	
12	2	8	68.3	1897		8.616381	
13	2	19	90.4	1540		8.997691	
14	2	10	96.7	1039		9.758432	
15	1	9	58.8			10.21333	
16	3	12	55.1	1182	1179	11.053251	
17	2	11	71.2	1203		11.755146	

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	10	90.5			0.922622	1
1	3	12	91.3	1113	1958	1.386585	
2	2	13	82.1	1409		2.632759	
3	1	12	52			3.429987	
4	2	16	99.8	1418		5.436853	
5	2	10	83.5	1559		6.031371	
6	1	6	91.6			6.602128	
7	1	10	53.7			8.105699	
8	3	15	85.1	1249	1071	8.995615	
9	2	10	90.8	1783		10.740849	
10	3	6	98.1	1088	1425	11.416027	

Bin5 Statistics 22

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	6	52.3	1023		0.705774	1
1	2	13	91.1	1037		1.868089	
2	2	19	50.5	1055		2.19182	
3	1	9	79.4			3.606287	
4	2	10	61.2	1551		4.685455	
5	2	13	69.3	1249		5.750135	
6	2	16	92.1	1391		6.83676	
7	2	6	63.7	1654		7.896245	
8	1	19	82.5			8.525211	
9	2	19	72.5	1817		9.914891	
10	3	14	76	1339	1269	10.391299	
11	3	20	72.7	1951	1064	11.211679	

Bin5 Statistics 23

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	6	81.8			0.319338	1
1	2	10	66.8	1437		1.10695	
2	1	11	63.9			1.699441	
3	3	12	60.2	1654	1434	2.272649	
4	2	8	57.3	1019		2.769305	
5	2	16	89.5	1479		3.767974	
6	1	11	52.7			4.280783	
7	3	13	70.8	1397	1164	5.323375	
8	1	13	52.9			5.887702	
9	1	18	74			6.374692	
10	1	17	57.7			6.897033	
11	3	19	97.3	1692	1375	7.686932	
12	2	5	58	1184		8.599885	
13	1	10	95.9			8.846161	
14	3	13	82	1587	1737	9.798987	
15	1	9	91.7			10.37429	
16	2	20	90.6	1106		11.073173	
17	2	7	87.9	1367		11.888874	

Bin5 Statistics 24

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	8	81.1	1463	1255	0.29741	1
1	2	9	80.3	1278		0.897541	
2	2	6	75.3	1451		1.304785	
3	2	10	50.4	1042		2.32386	
4	1	13	64.7			3.12157	
5	3	5	73	1971	1932	3.248824	
6	3	19	95.7	1939	1695	4.034765	
7	2	9	55.5	1717		4.489771	
8	2	12	82.8	1856		5.394073	
9	2	5	56.4	1902		5.848424	
10	2	14	68.2	1315		6.373397	
11	3	16	72.1	1663	1038	7.04726	
12	3	20	70.3	1028	1643	8.1437	
13	1	8	52.9			8.827859	
14	2	16	96.1	1979		9.149299	
15	2	17	93.7	1400		9.798276	
16	2	17	97	1133		10.162745	
17	1	9	69			11.040134	
18	2	14	59.9	1189		11.474805	

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	7	86	1532		0.688885	1
1	1	7	62.3			1.49945	
2	1	18	56.1			1.621148	
3	1	19	56.8			2.448197	
4	3	15	91.8	1458	1786	3.555087	
5	1	10	72.6			4.700984	
6	2	16	81	1516		5.005183	
7	1	6	98.2			5.904082	
8	1	9	94			6.516521	
9	1	8	77.4			7.664452	
10	2	8	94	1932		8.2788	
11	3	12	57.3	1971	1585	9.584584	
12	3	13	61.9	1362	1917	9.915934	
13	3	13	70.4	1962	1182	11.164886	
14	3	14	92.3	1993	1689	11.957664	

Bin5 Statistics 26

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	3	13	80	1690	1624	1.314055	1
1	2	19	76	1157		2.553978	
2	3	13	94.2	1180	1830	3.986322	
3	2	19	84.1	1303		4.526566	
4	2	14	89.1	1879		6.02455	
5	2	8	86.1	1269		7.052887	
6	2	16	82.6	1675		9.12402	
7	2	16	52	1852		9.721942	
8	2	11	80	1186		11.200546	

Bin5 Statistics 27

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	2	15	59.8	1497		0.156773	1
1	3	5	75.1	1794	1279	1.166614	
2	3	7	96.7	1204	1265	1.804356	
3	2	12	90.9	1623		3.370759	
4	2	14	54.1	1872		4.034213	
5	2	14	77.4	1441		4.851145	
6	3	10	76.8	1656	1982	5.808221	
7	1	15	65.2			6.68144	
8	2	11	70.4	1965		7.536315	
9	2	9	86.6	1342		7.733714	
10	2	20	60.2	1616		8.605641	
11	3	9	71.1	1391	1948	10.17271	
12	1	5	67.9			10.339704	
13	2	19	88.8	1772		11.846226	

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	98.9	1548		0.646057	
1	2	10	54.6	1651		1.301494	
2	2	10	56.1	1514		2.367824	
3	2	17	95.1	1702		2.695566	
4	2	18	91.1	1925		3.894773	
5	1	14	72.2			4.396033	
6	3	13	86.6	1175	1946	5.337886	
7	3	11	62	1926	1516	6.220887	1
8	1	10	91.6			7.706167	
9	2	7	78.8	1015		7.803463	
10	2	15	69.3	1630		8.908655	
11	2	19	61.1	1665		10.263987	
12	1	8	68.1			10.573262	
13	1	7	85.1			11.201889	

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	5	98.9	1286		0.785007	
1	2	8	65.7	1560		1.458669	
2	3	5	97.3	1526	1774	2.046061	
3	2	17	55.9	1012		2.934914	
4	2	5	84.2	1157		3.395417	
5	2	13	92.1	1762		4.315668	
6	2	10	78.3	1406		5.199905	
7	3	15	67.1	1925	1063	6.070633	1
8	2	14	88.4	1612		7.186982	
9	2	10	63	1739		7.220899	
10	1	8	75.1			8.445387	
11	2	9	56.1	1019		9.444655	
12	2	17	90.2	1429		10.065511	
13	1	8	71.5			10.961377	
14	2	5	89.1	1723		11.947887	

Bin5 Statistics 30

Trial #	Pulse	Chirp (MHz)	Pulse Width (µS)	Pulse 1-2 spacing (uS)	Pulse 2-3 spacing (uS)	Pulse Start(S)	Detection (1:yes; 0:no)
0	1	11	80.6			0.348464	1
1	3	15	64.9	1678	1510	2.021047	
2	2	11	89.2	1890		2.991683	
3	2	12	71	1500		4.213038	
4	2	17	57.3	1189		6.227122	
5	2	16	87.7	1814		6.934045	
6	1	13	87			9.304515	
7	1	16	56.1			9.56563	
8	2	16	82.7	1670		11.808942	

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	5334.0, 5280.0, 5467.0, 5410.0, 5383.0, 5284.0, 5386.0, 5569.0, 5457.0, 5372.0, 5463.0, 5316.0, 5392.0, 5560.0, 5595.0, 5257.0, 5670.0, 5405.0, 5582.0, 5697.0, 5692.0, 5480.0, 5445.0, 5309.0, 5342.0, 5661.0, 5589.0, 5663.0, 5650.0, 5306.0, 5609.0, 5331.0, 5351.0, 5288.0, 5672.0, 5620.0, 5397.0, 5504.0, 5416.0, 5530.0, 5382.0, 5409.0, 5275.0, 5303.0, 5721.0, 5396.0, 5273.0, 5436.0, 5642.0, 5686.0, 5339.0, 5716.0, 5353.0, 5447.0, 5520.0, 5566.0, 5360.0, 5415.0, 5529.0, 5647.0, 5543.0, 5385.0, 5465.0, 5626.0, 5453.0, 5389.0, 5489.0, 5400.0, 5588.0, 5644.0, 5690.0, 5617.0, 5549.0, 5605.0, 5516.0, 5561.0, 5341.0, 5622.0, 5685.0, 5348.0, 5536.0, 5509.0, 5711.0, 5570.0, 5563.0, 5425.0, 5401.0, 5472.0, 5412.0, 5704.0, 5591.0, 5424.0, 5449.0, 5678.0, 5378.0, 5526.0, 5352.0, 5274.0, 5694.0, 5538.0 (number of hits: 6)
2	5550	9	1	333	1	5618.0, 5481.0, 5674.0, 5327.0, 5579.0, 5660.0, 5487.0, 5305.0, 5552.0, 5650.0, 5420.0, 5474.0, 5615.0, 5414.0, 5605.0, 5296.0, 5303.0, 5609.0, 5460.0, 5625.0, 5384.0, 5596.0, 5571.0, 5275.0, 5648.0, 5288.0, 5595.0, 5548.0, 5507.0, 5518.0, 5346.0, 5677.0, 5527.0, 5273.0, 5432.0, 5321.0, 5659.0, 5577.0, 5688.0, 5367.0, 5512.0, 5359.0, 5270.0, 5261.0, 5389.0, 5413.0, 5396.0, 5669.0, 5610.0, 5491.0, 5354.0, 5641.0, 5576.0, 5624.0, 5483.0, 5325.0, 5664.0, 5465.0, 5445.0, 5593.0, 5575.0, 5559.0, 5560.0, 5640.0, 5586.0, 5716.0, 5711.0, 5464.0, 5654.0, 5544.0, 5398.0, 5622.0, 5712.0, 5672.0, 5536.0, 5429.0, 5699.0, 5707.0, 5468.0, 5703.0, 5718.0, 5383.0, 5390.0, 5294.0, 5302.0, 5416.0, 5693.0, 5653.0, 5621.0, 5350.0, 5256.0, 5290.0, 5258.0, 5292.0, 5274.0, 5408.0, 5695.0, 5470.0, 5391.0, 5589.0 (number of hits: 5)
3	5550	9	1	333	1	5323.0, 5647.0, 5478.0, 5414.0, 5444.0, 5313.0, 5315.0, 5559.0, 5344.0, 5322.0, 5490.0, 5387.0, 5439.0, 5330.0, 5402.0, 5435.0, 5404.0, 5670.0, 5275.0, 5391.0, 5312.0, 5607.0, 5503.0, 5256.0, 5305.0, 5681.0, 5426.0, 5659.0, 5482.0, 5642.0, 5623.0, 5521.0, 5341.0, 5432.0, 5493.0, 5609.0, 5682.0, 5558.0, 5388.0, 5310.0, 5673.0, 5296.0, 5295.0, 5429.0, 5580.0, 5479.0, 5251.0, 5394.0, 5650.0, 5338.0, 5645.0, 5304.0, 5357.0, 5662.0, 5363.0, 5672.0, 5696.0, 5597.0, 5537.0, 5289.0, 5619.0, 5480.0, 5502.0, 5702.0, 5697.0,

						5588.0, 5579.0, 5373.0, 5494.0, 5407.0, 5485.0, 5475.0, 5613.0, 5307.0, 5554.0, 5320.0, 5504.0, 5436.0, 5470.0, 5352.0, 5569.0, 5274.0, 5640.0, 5457.0, 5488.0, 5420.0, 5703.0, 5545.0, 5417.0, 5658.0, 5392.0, 5353.0, 5712.0, 5600.0, 5691.0, 5534.0, 5706.0, 5264.0, 5695.0, 5460.0 (number of hits: 7)
4	5550	9	1	333	1	5534.0, 5469.0, 5472.0, 5359.0, 5396.0, 5325.0, 5273.0, 5279.0, 5635.0, 5303.0, 5407.0, 5620.0, 5688.0, 5379.0, 5570.0, 5645.0, 5400.0, 5504.0, 5342.0, 5680.0, 5441.0, 5375.0, 5653.0, 5316.0, 5562.0, 5705.0, 5281.0, 5420.0, 5711.0, 5631.0, 5550.0, 5436.0, 5468.0, 5611.0, 5476.0, 5388.0, 5536.0, 5656.0, 5632.0, 5377.0, 5274.0, 5602.0, 5576.0, 5679.0, 5451.0, 5261.0, 5724.0, 5668.0, 5473.0, 5716.0, 5299.0, 5638.0, 5459.0, 5603.0, 5320.0, 5513.0, 5708.0, 5642.0, 5609.0, 5676.0, 5360.0, 5339.0, 5406.0, 5348.0, 5372.0, 5405.0, 5709.0, 5350.0, 5477.0, 5433.0, 5305.0, 5583.0, 5443.0, 5427.0, 5336.0, 5519.0, 5593.0, 5623.0, 5538.0, 5293.0, 5415.0, 5662.0, 5271.0, 5445.0, 5287.0, 5492.0, 5466.0, 5591.0, 5566.0, 5391.0, 5275.0, 5314.0, 5546.0, 5533.0, 5590.0, 5719.0, 5363.0, 5343.0, 5502.0, 5381.0 (number of hits: 5)
5	5550	9	1	333	1	5356.0, 5430.0, 5558.0, 5262.0, 5693.0, 5608.0, 5450.0, 5432.0, 5687.0, 5669.0, 5578.0, 5507.0, 5482.0, 5435.0, 5276.0, 5682.0, 5477.0, 5616.0, 5389.0, 5513.0, 5273.0, 5555.0, 5593.0, 5474.0, 5317.0, 5458.0, 5328.0, 5531.0, 5636.0, 5691.0, 5498.0, 5686.0, 5644.0, 5514.0, 5569.0, 5685.0, 5357.0, 5402.0, 5609.0, 5562.0, 5487.0, 5283.0, 5348.0, 5619.0, 5575.0, 5307.0, 5516.0, 5378.0, 5500.0, 5452.0, 5527.0, 5537.0, 5362.0, 5260.0, 5723.0, 5289.0, 5552.0, 5639.0, 5504.0, 5469.0, 5621.0, 5485.0, 5718.0, 5467.0, 5651.0, 5539.0, 5594.0, 5536.0, 5441.0, 5494.0, 5694.0, 5549.0, 5253.0, 5592.0, 5542.0, 5444.0, 5714.0, 5591.0, 5712.0, 5440.0, 5412.0, 5257.0, 5363.0, 5695.0, 5285.0, 5473.0, 5646.0, 5690.0, 5420.0, 5421.0, 5457.0, 5588.0, 5599.0, 5266.0, 5272.0, 5443.0, 5393.0, 5372.0, 5520.0, 5597.0 (number of hits: 10)
6	5550	9	1	333	1	5414.0, 5430.0, 5698.0, 5298.0, 5453.0, 5513.0, 5443.0, 5615.0, 5504.0, 5665.0, 5395.0, 5303.0, 5668.0, 5667.0, 5253.0, 5399.0, 5282.0, 5670.0, 5683.0, 5590.0, 5408.0, 5528.0, 5426.0, 5470.0, 5478.0, 5598.0, 5409.0, 5564.0, 5587.0, 5387.0, 5710.0, 5717.0, 5538.0, 5306.0, 5702.0, 5525.0, 5391.0, 5489.0, 5675.0, 5383.0, 5609.0, 5384.0, 5250.0, 5616.0, 5405.0, 5620.0, 5437.0, 5272.0, 5449.0, 5371.0,

						5723.0, 5586.0, 5596.0, 5415.0, 5669.0, 5703.0, 5262.0, 5612.0, 5558.0, 5469.0, 5560.0, 5268.0, 5370.0, 5284.0, 5682.0, 5712.0, 5701.0, 5360.0, 5404.0, 5497.0, 5481.0, 5450.0, 5291.0, 5677.0, 5582.0, 5529.0, 5349.0, 5420.0, 5514.0, 5320.0, 5614.0, 5542.0, 5654.0, 5691.0, 5425.0, 5642.0, 5373.0, 5265.0, 5473.0, 5413.0, 5380.0, 5435.0, 5315.0, 5332.0, 5338.0, 5351.0, 5506.0, 5534.0, 5613.0, 5352.0 (number of hits: 8)
7	5550	9	1	333	1	5532.0, 5566.0, 5476.0, 5284.0, 5698.0, 5359.0, 5553.0, 5480.0, 5305.0, 5341.0, 5451.0, 5646.0, 5706.0, 5615.0, 5329.0, 5299.0, 5367.0, 5517.0, 5673.0, 5262.0, 5631.0, 5630.0, 5651.0, 5345.0, 5381.0, 5304.0, 5519.0, 5580.0, 5280.0, 5258.0, 5616.0, 5660.0, 5520.0, 5599.0, 5266.0, 5400.0, 5549.0, 5411.0, 5667.0, 5694.0, 5504.0, 5550.0, 5484.0, 5325.0, 5556.0, 5600.0, 5542.0, 5495.0, 5693.0, 5492.0, 5705.0, 5704.0, 5363.0, 5412.0, 5427.0, 5688.0, 5428.0, 5475.0, 5596.0, 5560.0, 5410.0, 5491.0, 5481.0, 5677.0, 5572.0, 5620.0, 5313.0, 5306.0, 5290.0, 5634.0, 5315.0, 5295.0, 5591.0, 5277.0, 5377.0, 5710.0, 5364.0, 5590.0, 5507.0, 5279.0, 5608.0, 5498.0, 5575.0, 5547.0, 5356.0, 5253.0, 5450.0, 5260.0, 5640.0, 5601.0, 5540.0, 5445.0, 5708.0, 5402.0, 5342.0, 5437.0, 5508.0, 5662.0, 5486.0, 5351.0 (number of hits: 10)
8	5550	9	1	333	1	5510.0, 5592.0, 5522.0, 5438.0, 5271.0, 5551.0, 5585.0, 5321.0, 5658.0, 5505.0, 5637.0, 5300.0, 5561.0, 5669.0, 5616.0, 5382.0, 5308.0, 5331.0, 5643.0, 5636.0, 5266.0, 5368.0, 5586.0, 5390.0, 5564.0, 5615.0, 5639.0, 5375.0, 5441.0, 5653.0, 5417.0, 5443.0, 5459.0, 5295.0, 5516.0, 5389.0, 5557.0, 5476.0, 5647.0, 5395.0, 5340.0, 5305.0, 5253.0, 5478.0, 5699.0, 5456.0, 5678.0, 5713.0, 5595.0, 5363.0, 5545.0, 5344.0, 5724.0, 5544.0, 5712.0, 5297.0, 5296.0, 5290.0, 5383.0, 5611.0, 5425.0, 5420.0, 5351.0, 5614.0, 5519.0, 5288.0, 5453.0, 5677.0, 5539.0, 5404.0, 5583.0, 5617.0, 5428.0, 5547.0, 5414.0, 5593.0, 5419.0, 5627.0, 5573.0, 5474.0, 5377.0, 5379.0, 5641.0, 5320.0, 5507.0, 5309.0, 5708.0, 5303.0, 5567.0, 5549.0, 5354.0, 5277.0, 5282.0, 5427.0, 5702.0, 5666.0, 5397.0, 5498.0, 5252.0, 5701.0 (number of hits: 7)
9	5550	9	1	333	1	5502.0, 5505.0, 5396.0, 5372.0, 5633.0, 5580.0, 5442.0, 5368.0, 5652.0, 5594.0, 5537.0, 5655.0, 5553.0, 5435.0, 5641.0, 5504.0, 5705.0, 5475.0, 5718.0, 5547.0, 5362.0, 5540.0, 5665.0, 5722.0, 5629.0, 5399.0, 5277.0, 5478.0, 5298.0, 5499.0, 5673.0, 5545.0, 5680.0, 5617.0, 5397.0,

						5422.0, 5623.0, 5609.0, 5656.0, 5383.0, 5552.0, 5458.0, 5411.0, 5693.0, 5495.0, 5620.0, 5479.0, 5255.0, 5690.0, 5701.0, 5330.0, 5437.0, 5724.0, 5449.0, 5661.0, 5518.0, 5297.0, 5329.0, 5327.0, 5616.0, 5256.0, 5697.0, 5482.0, 5252.0, 5658.0, 5695.0, 5295.0, 5360.0, 5484.0, 5377.0, 5288.0, 5681.0, 5294.0, 5433.0, 5322.0, 5603.0, 5465.0, 5370.0, 5664.0, 5262.0, 5666.0, 5671.0, 5550.0, 5308.0, 5587.0, 5489.0, 5561.0, 5439.0, 5374.0, 5392.0, 5521.0, 5440.0, 5604.0, 5574.0, 5477.0, 5356.0, 5551.0, 5631.0, 5686.0, 5381.0 (number of hits: 7)
10	5550	9	1	333	1	5683.0, 5305.0, 5442.0, 5344.0, 5721.0, 5440.0, 5460.0, 5694.0, 5554.0, 5430.0, 5566.0, 5612.0, 5348.0, 5644.0, 5720.0, 5645.0, 5651.0, 5617.0, 5345.0, 5529.0, 5487.0, 5270.0, 5535.0, 5365.0, 5454.0, 5695.0, 5328.0, 5273.0, 5431.0, 5509.0, 5709.0, 5485.0, 5539.0, 5497.0, 5587.0, 5393.0, 5622.0, 5457.0, 5362.0, 5583.0, 5619.0, 5527.0, 5543.0, 5722.0, 5257.0, 5353.0, 5416.0, 5382.0, 5352.0, 5525.0, 5337.0, 5515.0, 5312.0, 5400.0, 5650.0, 5517.0, 5589.0, 5702.0, 5616.0, 5570.0, 5318.0, 5697.0, 5510.0, 5533.0, 5435.0, 5676.0, 5672.0, 5412.0, 5332.0, 5560.0, 5372.0, 5456.0, 5675.0, 5355.0, 5422.0, 5336.0, 5467.0, 5321.0, 5444.0, 5390.0, 5417.0, 5692.0, 5268.0, 5271.0, 5687.0, 5580.0, 5523.0, 5571.0, 5682.0, 5701.0, 5409.0, 5453.0, 5690.0, 5350.0, 5338.0, 5311.0, 5461.0, 5405.0, 5341.0, 5719.0 (number of hits: 9)
11	5550	9	1	333	1	5655.0, 5563.0, 5373.0, 5475.0, 5593.0, 5504.0, 5278.0, 5254.0, 5312.0, 5352.0, 5577.0, 5715.0, 5575.0, 5386.0, 5264.0, 5454.0, 5681.0, 5412.0, 5325.0, 5675.0, 5358.0, 5686.0, 5409.0, 5361.0, 5322.0, 5710.0, 5282.0, 5502.0, 5385.0, 5425.0, 5476.0, 5304.0, 5316.0, 5387.0, 5661.0, 5273.0, 5369.0, 5634.0, 5515.0, 5469.0, 5320.0, 5704.0, 5639.0, 5299.0, 5384.0, 5461.0, 5569.0, 5335.0, 5517.0, 5452.0, 5505.0, 5279.0, 5342.0, 5411.0, 5549.0, 5624.0, 5677.0, 5592.0, 5529.0, 5596.0, 5530.0, 5709.0, 5535.0, 5329.0, 5271.0, 5423.0, 5521.0, 5697.0, 5497.0, 5290.0, 5252.0, 5719.0, 5685.0, 5553.0, 5462.0, 5544.0, 5689.0, 5525.0, 5276.0, 5628.0, 5301.0, 5534.0, 5605.0, 5548.0, 5690.0, 5616.0, 5406.0, 5632.0, 5295.0, 5391.0, 5288.0, 5567.0, 5308.0, 5437.0, 5583.0, 5324.0, 5614.0, 5508.0, 5480.0, 5257.0 (number of hits: 10)
12	5550	9	1	333	1	5575.0, 5619.0, 5445.0, 5422.0, 5466.0, 5475.0, 5550.0, 5622.0, 5317.0, 5395.0, 5350.0, 5420.0, 5485.0, 5443.0, 5435.0, 5570.0, 5496.0, 5405.0, 5357.0, 5522.0,

						5582.0, 5440.0, 5409.0, 5513.0, 5590.0, 5418.0, 5650.0, 5639.0, 5717.0, 5538.0, 5353.0, 5387.0, 5549.0, 5680.0, 5574.0, 5489.0, 5562.0, 5647.0, 5287.0, 5618.0, 5354.0, 5442.0, 5392.0, 5593.0, 5627.0, 5351.0, 5275.0, 5566.0, 5642.0, 5261.0, 5580.0, 5371.0, 5493.0, 5403.0, 5556.0, 5501.0, 5291.0, 5404.0, 5525.0, 5666.0, 5673.0, 5667.0, 5455.0, 5601.0, 5453.0, 5309.0, 5529.0, 5281.0, 5414.0, 5369.0, 5671.0, 5503.0, 5631.0, 5687.0, 5572.0, 5707.0, 5584.0, 5597.0, 5397.0, 5345.0, 5518.0, 5560.0, 5714.0, 5457.0, 5693.0, 5301.0, 5352.0, 5307.0, 5537.0, 5278.0, 5399.0, 5333.0, 5546.0, 5585.0, 5269.0, 5581.0, 5262.0, 5553.0, 5589.0, 5637.0 (number of hits: 9)
13	5550	9	1	333	1	5653.0, 5394.0, 5323.0, 5520.0, 5393.0, 5398.0, 5519.0, 5610.0, 5464.0, 5714.0, 5309.0, 5655.0, 5267.0, 5254.0, 5690.0, 5455.0, 5263.0, 5298.0, 5573.0, 5384.0, 5297.0, 5358.0, 5607.0, 5311.0, 5444.0, 5576.0, 5421.0, 5572.0, 5590.0, 5619.0, 5317.0, 5380.0, 5645.0, 5251.0, 5341.0, 5686.0, 5528.0, 5673.0, 5649.0, 5469.0, 5342.0, 5385.0, 5460.0, 5543.0, 5462.0, 5264.0, 5472.0, 5498.0, 5580.0, 5529.0, 5648.0, 5639.0, 5372.0, 5666.0, 5544.0, 5545.0, 5361.0, 5375.0, 5328.0, 5682.0, 5428.0, 5496.0, 5387.0, 5551.0, 5699.0, 5612.0, 5509.0, 5533.0, 5347.0, 5307.0, 5548.0, 5600.0, 5658.0, 5281.0, 5597.0, 5568.0, 5451.0, 5369.0, 5266.0, 5601.0, 5282.0, 5491.0, 5514.0, 5630.0, 5604.0, 5348.0, 5258.0, 5689.0, 5539.0, 5299.0, 5461.0, 5595.0, 5314.0, 5563.0, 5255.0, 5487.0, 5335.0, 5565.0, 5534.0, 5265.0 (number of hits: 9)
14	5550	9	1	333	1	5335.0, 5537.0, 5348.0, 5581.0, 5481.0, 5511.0, 5555.0, 5281.0, 5543.0, 5422.0, 5452.0, 5604.0, 5662.0, 5493.0, 5333.0, 5458.0, 5598.0, 5600.0, 5437.0, 5698.0, 5464.0, 5575.0, 5536.0, 5693.0, 5647.0, 5336.0, 5253.0, 5523.0, 5700.0, 5695.0, 5296.0, 5305.0, 5648.0, 5448.0, 5361.0, 5260.0, 5490.0, 5433.0, 5301.0, 5507.0, 5720.0, 5430.0, 5640.0, 5574.0, 5663.0, 5399.0, 5432.0, 5327.0, 5285.0, 5568.0, 5356.0, 5362.0, 5292.0, 5687.0, 5423.0, 5403.0, 5514.0, 5254.0, 5480.0, 5689.0, 5442.0, 5410.0, 5622.0, 5634.0, 5376.0, 5678.0, 5681.0, 5671.0, 5340.0, 5367.0, 5307.0, 5635.0, 5516.0, 5273.0, 5617.0, 5666.0, 5551.0, 5429.0, 5469.0, 5339.0, 5636.0, 5374.0, 5538.0, 5494.0, 5352.0, 5682.0, 5291.0, 5489.0, 5614.0, 5365.0, 5654.0, 5556.0, 5513.0, 5342.0, 5397.0, 5576.0, 5632.0, 5434.0, 5391.0, 5641.0 (number of hits: 9)
15	5550	9	1	333	1	5526.0, 5326.0, 5555.0, 5697.0, 5520.0,

						5648.0, 5613.0, 5401.0, 5612.0, 5484.0, 5558.0, 5370.0, 5281.0, 5604.0, 5618.0, 5313.0, 5477.0, 5640.0, 5269.0, 5351.0, 5512.0, 5393.0, 5673.0, 5427.0, 5645.0, 5362.0, 5639.0, 5420.0, 5449.0, 5695.0, 5272.0, 5361.0, 5597.0, 5608.0, 5584.0, 5596.0, 5320.0, 5576.0, 5591.0, 5610.0, 5412.0, 5552.0, 5430.0, 5473.0, 5292.0, 5487.0, 5528.0, 5569.0, 5570.0, 5654.0, 5389.0, 5494.0, 5568.0, 5607.0, 5534.0, 5369.0, 5582.0, 5391.0, 5678.0, 5611.0, 5504.0, 5664.0, 5566.0, 5260.0, 5340.0, 5627.0, 5270.0, 5295.0, 5559.0, 5515.0, 5359.0, 5470.0, 5495.0, 5301.0, 5659.0, 5545.0, 5620.0, 5431.0, 5655.0, 5638.0, 5590.0, 5342.0, 5538.0, 5357.0, 5493.0, 5409.0, 5671.0, 5290.0, 5434.0, 5531.0, 5429.0, 5283.0, 5436.0, 5557.0, 5363.0, 5378.0, 5397.0, 5375.0, 5291.0, 5263.0 (number of hits: 9)
16	5550	9	1	333	1	5673.0, 5554.0, 5592.0, 5547.0, 5479.0, 5289.0, 5415.0, 5370.0, 5706.0, 5290.0, 5526.0, 5532.0, 5264.0, 5368.0, 5637.0, 5405.0, 5257.0, 5336.0, 5698.0, 5499.0, 5471.0, 5658.0, 5266.0, 5262.0, 5430.0, 5645.0, 5294.0, 5683.0, 5286.0, 5329.0, 5490.0, 5495.0, 5314.0, 5378.0, 5397.0, 5488.0, 5293.0, 5263.0, 5356.0, 5253.0, 5691.0, 5254.0, 5328.0, 5533.0, 5512.0, 5357.0, 5466.0, 5496.0, 5332.0, 5281.0, 5292.0, 5280.0, 5611.0, 5694.0, 5523.0, 5478.0, 5339.0, 5626.0, 5299.0, 5531.0, 5705.0, 5393.0, 5599.0, 5416.0, 5322.0, 5344.0, 5505.0, 5273.0, 5307.0, 5632.0, 5671.0, 5303.0, 5476.0, 5350.0, 5365.0, 5409.0, 5720.0, 5621.0, 5600.0, 5672.0, 5612.0, 5381.0, 5260.0, 5449.0, 5334.0, 5546.0, 5364.0, 5451.0, 5497.0, 5644.0, 5498.0, 5652.0, 5527.0, 5537.0, 5402.0, 5675.0, 5321.0, 5347.0, 5605.0, 5656.0 (number of hits: 11)
17	5550	9	1	333	1	5459.0, 5540.0, 5635.0, 5384.0, 5653.0, 5718.0, 5348.0, 5276.0, 5640.0, 5618.0, 5705.0, 5457.0, 5528.0, 5298.0, 5632.0, 5440.0, 5651.0, 5286.0, 5493.0, 5562.0, 5664.0, 5444.0, 5572.0, 5542.0, 5255.0, 5719.0, 5637.0, 5479.0, 5297.0, 5295.0, 5390.0, 5644.0, 5498.0, 5368.0, 5690.0, 5344.0, 5604.0, 5400.0, 5472.0, 5467.0, 5254.0, 5680.0, 5418.0, 5588.0, 5303.0, 5671.0, 5711.0, 5445.0, 5668.0, 5714.0, 5263.0, 5509.0, 5397.0, 5515.0, 5692.0, 5568.0, 5438.0, 5716.0, 5597.0, 5610.0, 5396.0, 5269.0, 5454.0, 5336.0, 5455.0, 5662.0, 5349.0, 5450.0, 5625.0, 5495.0, 5533.0, 5270.0, 5584.0, 5567.0, 5453.0, 5712.0, 5539.0, 5261.0, 5599.0, 5629.0, 5402.0, 5475.0, 5513.0, 5370.0, 5512.0, 5451.0, 5522.0, 5366.0, 5291.0, 5309.0, 5481.0, 5679.0, 5613.0, 5544.0, 5296.0,

						5462.0, 5435.0, 5502.0, 5398.0, 5590.0 (number of hits: 10)
18	5550	9	1	333	1	5597.0, 5372.0, 5680.0, 5420.0, 5256.0, 5723.0, 5492.0, 5575.0, 5385.0, 5341.0, 5590.0, 5639.0, 5585.0, 5296.0, 5509.0, 5456.0, 5546.0, 5615.0, 5286.0, 5347.0, 5617.0, 5251.0, 5449.0, 5696.0, 5574.0, 5307.0, 5505.0, 5409.0, 5386.0, 5545.0, 5335.0, 5614.0, 5443.0, 5337.0, 5414.0, 5342.0, 5606.0, 5346.0, 5322.0, 5608.0, 5604.0, 5293.0, 5274.0, 5393.0, 5469.0, 5660.0, 5682.0, 5552.0, 5515.0, 5299.0, 5392.0, 5529.0, 5481.0, 5663.0, 5670.0, 5596.0, 5350.0, 5455.0, 5305.0, 5452.0, 5317.0, 5479.0, 5387.0, 5609.0, 5638.0, 5285.0, 5486.0, 5404.0, 5503.0, 5309.0, 5516.0, 5704.0, 5289.0, 5382.0, 5543.0, 5445.0, 5506.0, 5413.0, 5327.0, 5361.0, 5494.0, 5711.0, 5579.0, 5338.0, 5714.0, 5319.0, 5628.0, 5671.0, 5356.0, 5570.0, 5250.0, 5576.0, 5280.0, 5396.0, 5383.0, 5304.0, 5625.0, 5444.0, 5634.0, 5514.0 (number of hits: 10)
19	5550	9	1	333	1	5365.0, 5417.0, 5410.0, 5435.0, 5333.0, 5550.0, 5491.0, 5710.0, 5480.0, 5356.0, 5601.0, 5566.0, 5522.0, 5335.0, 5483.0, 5377.0, 5307.0, 5688.0, 5373.0, 5478.0, 5444.0, 5503.0, 5545.0, 5700.0, 5439.0, 5424.0, 5408.0, 5488.0, 5558.0, 5722.0, 5473.0, 5393.0, 5671.0, 5479.0, 5692.0, 5272.0, 5673.0, 5691.0, 5559.0, 5441.0, 5436.0, 5519.0, 5400.0, 5585.0, 5569.0, 5613.0, 5457.0, 5689.0, 5716.0, 5499.0, 5597.0, 5440.0, 5311.0, 5351.0, 5297.0, 5654.0, 5576.0, 5429.0, 5398.0, 5289.0, 5596.0, 5618.0, 5705.0, 5635.0, 5382.0, 5581.0, 5487.0, 5721.0, 5380.0, 5401.0, 5676.0, 5708.0, 5418.0, 5611.0, 5719.0, 5515.0, 5604.0, 5678.0, 5282.0, 5653.0, 5695.0, 5261.0, 5363.0, 5682.0, 5696.0, 5464.0, 5507.0, 5630.0, 5715.0, 5301.0, 5320.0, 5498.0, 5273.0, 5294.0, 5492.0, 5253.0, 5310.0, 5412.0, 5504.0, 5584.0 (number of hits: 10)
20	5550	9	1	333	1	5398.0, 5430.0, 5704.0, 5527.0, 5631.0, 5447.0, 5283.0, 5258.0, 5388.0, 5529.0, 5375.0, 5609.0, 5482.0, 5282.0, 5597.0, 5284.0, 5327.0, 5337.0, 5713.0, 5345.0, 5570.0, 5620.0, 5584.0, 5411.0, 5491.0, 5490.0, 5318.0, 5724.0, 5344.0, 5514.0, 5310.0, 5518.0, 5335.0, 5610.0, 5380.0, 5382.0, 5291.0, 5686.0, 5612.0, 5681.0, 5342.0, 5462.0, 5650.0, 5649.0, 5481.0, 5260.0, 5555.0, 5442.0, 5298.0, 5333.0, 5499.0, 5487.0, 5399.0, 5412.0, 5325.0, 5403.0, 5466.0, 5334.0, 5300.0, 5330.0, 5297.0, 5495.0, 5292.0, 5520.0, 5368.0, 5716.0, 5567.0, 5324.0, 5253.0, 5617.0, 5354.0, 5459.0, 5723.0, 5471.0, 5700.0, 5307.0, 5683.0, 5381.0, 5673.0, 5274.0,

						5509.0, 5329.0, 5473.0, 5305.0, 5293.0, 5400.0, 5311.0, 5530.0, 5423.0, 5703.0, 5522.0, 5639.0, 5277.0, 5581.0, 5544.0, 5689.0, 5488.0, 5553.0, 5264.0, 5693.0 (number of hits: 11)
21	5550	9	1	333	1	5451.0, 5587.0, 5571.0, 5669.0, 5631.0, 5647.0, 5478.0, 5433.0, 5347.0, 5350.0, 5546.0, 5473.0, 5654.0, 5707.0, 5353.0, 5452.0, 5382.0, 5536.0, 5411.0, 5611.0, 5581.0, 5346.0, 5489.0, 5505.0, 5326.0, 5469.0, 5385.0, 5440.0, 5435.0, 5472.0, 5539.0, 5515.0, 5417.0, 5387.0, 5405.0, 5598.0, 5613.0, 5582.0, 5551.0, 5254.0, 5263.0, 5357.0, 5603.0, 5660.0, 5500.0, 5711.0, 5671.0, 5626.0, 5331.0, 5481.0, 5259.0, 5343.0, 5602.0, 5306.0, 5560.0, 5714.0, 5392.0, 5304.0, 5556.0, 5656.0, 5477.0, 5309.0, 5374.0, 5721.0, 5398.0, 5655.0, 5312.0, 5345.0, 5648.0, 5359.0, 5430.0, 5706.0, 5278.0, 5540.0, 5486.0, 5507.0, 5323.0, 5697.0, 5686.0, 5291.0, 5635.0, 5658.0, 5494.0, 5668.0, 5349.0, 5261.0, 5352.0, 5459.0, 5281.0, 5280.0, 5361.0, 5607.0, 5632.0, 5366.0, 5321.0, 5544.0, 5474.0, 5458.0, 5699.0, 5657.0 (number of hits: 5)
22	5550	9	1	333	1	5446.0, 5321.0, 5557.0, 5488.0, 5692.0, 5350.0, 5704.0, 5294.0, 5371.0, 5322.0, 5624.0, 5524.0, 5571.0, 5276.0, 5405.0, 5356.0, 5540.0, 5329.0, 5637.0, 5542.0, 5548.0, 5580.0, 5648.0, 5686.0, 5530.0, 5537.0, 5669.0, 5448.0, 5531.0, 5461.0, 5340.0, 5335.0, 5277.0, 5718.0, 5286.0, 5428.0, 5424.0, 5475.0, 5646.0, 5455.0, 5464.0, 5600.0, 5633.0, 5375.0, 5397.0, 5598.0, 5293.0, 5261.0, 5625.0, 5265.0, 5427.0, 5709.0, 5645.0, 5498.0, 5308.0, 5497.0, 5714.0, 5597.0, 5513.0, 5496.0, 5301.0, 5582.0, 5295.0, 5274.0, 5688.0, 5267.0, 5451.0, 5613.0, 5454.0, 5671.0, 5396.0, 5489.0, 5564.0, 5362.0, 5463.0, 5546.0, 5476.0, 5583.0, 5660.0, 5639.0, 5434.0, 5647.0, 5723.0, 5661.0, 5553.0, 5689.0, 5512.0, 5416.0, 5332.0, 5404.0, 5509.0, 5253.0, 5680.0, 5623.0, 5609.0, 5273.0, 5438.0, 5616.0, 5529.0, 5290.0 (number of hits: 8)
23	5550	9	1	333	1	5323.0, 5440.0, 5721.0, 5253.0, 5254.0, 5515.0, 5522.0, 5603.0, 5699.0, 5409.0, 5443.0, 5478.0, 5653.0, 5663.0, 5704.0, 5289.0, 5602.0, 5396.0, 5468.0, 5576.0, 5353.0, 5322.0, 5362.0, 5368.0, 5330.0, 5267.0, 5501.0, 5456.0, 5510.0, 5466.0, 5320.0, 5287.0, 5403.0, 5326.0, 5649.0, 5449.0, 5340.0, 5260.0, 5631.0, 5557.0, 5550.0, 5630.0, 5404.0, 5622.0, 5562.0, 5694.0, 5531.0, 5366.0, 5700.0, 5646.0, 5547.0, 5467.0, 5399.0, 5518.0, 5651.0, 5601.0, 5620.0, 5703.0, 5685.0, 5354.0, 5647.0, 5441.0, 5645.0, 5544.0, 5573.0,

						5591.0, 5667.0, 5717.0, 5718.0, 5405.0, 5568.0, 5659.0, 5349.0, 5514.0, 5369.0, 5453.0, 5295.0, 5255.0, 5567.0, 5616.0, 5450.0, 5364.0, 5516.0, 5310.0, 5671.0, 5660.0, 5504.0, 5564.0, 5317.0, 5306.0, 5407.0, 5672.0, 5658.0, 5642.0, 5444.0, 5608.0, 5582.0, 5291.0, 5401.0, 5357.0 (number of hits: 8)
24	5550	9	1	333	1	5512.0, 5544.0, 5348.0, 5610.0, 5622.0, 5690.0, 5561.0, 5290.0, 5589.0, 5540.0, 5670.0, 5306.0, 5427.0, 5684.0, 5320.0, 5487.0, 5691.0, 5612.0, 5613.0, 5420.0, 5405.0, 5423.0, 5557.0, 5413.0, 5407.0, 5283.0, 5261.0, 5706.0, 5537.0, 5339.0, 5417.0, 5485.0, 5332.0, 5341.0, 5519.0, 5630.0, 5692.0, 5565.0, 5659.0, 5265.0, 5587.0, 5638.0, 5482.0, 5664.0, 5291.0, 5480.0, 5439.0, 5274.0, 5441.0, 5708.0, 5654.0, 5400.0, 5590.0, 5699.0, 5408.0, 5498.0, 5575.0, 5547.0, 5642.0, 5299.0, 5516.0, 5526.0, 5627.0, 5667.0, 5307.0, 5272.0, 5677.0, 5461.0, 5359.0, 5351.0, 5517.0, 5333.0, 5513.0, 5397.0, 5363.0, 5330.0, 5633.0, 5671.0, 5508.0, 5335.0, 5314.0, 5388.0, 5693.0, 5553.0, 5463.0, 5687.0, 5710.0, 5442.0, 5721.0, 5353.0, 5316.0, 5556.0, 5263.0, 5628.0, 5354.0, 5583.0, 5573.0, 5688.0, 5703.0, 5569.0 (number of hits: 8)
25	5550	9	1	333	1	5614.0, 5365.0, 5400.0, 5552.0, 5617.0, 5368.0, 5572.0, 5431.0, 5470.0, 5279.0, 5452.0, 5644.0, 5562.0, 5569.0, 5386.0, 5304.0, 5327.0, 5258.0, 5719.0, 5436.0, 5540.0, 5448.0, 5371.0, 5657.0, 5442.0, 5338.0, 5687.0, 5494.0, 5469.0, 5605.0, 5396.0, 5561.0, 5485.0, 5261.0, 5468.0, 5615.0, 5499.0, 5311.0, 5446.0, 5538.0, 5512.0, 5558.0, 5422.0, 5374.0, 5370.0, 5307.0, 5680.0, 5330.0, 5293.0, 5379.0, 5308.0, 5541.0, 5305.0, 5300.0, 5476.0, 5457.0, 5582.0, 5331.0, 5405.0, 5634.0, 5285.0, 5546.0, 5438.0, 5281.0, 5381.0, 5718.0, 5294.0, 5451.0, 5706.0, 5352.0, 5529.0, 5713.0, 5624.0, 5364.0, 5291.0, 5297.0, 5675.0, 5650.0, 5447.0, 5319.0, 5563.0, 5348.0, 5444.0, 5698.0, 5723.0, 5592.0, 5632.0, 5354.0, 5671.0, 5527.0, 5655.0, 5403.0, 5433.0, 5412.0, 5669.0, 5417.0, 5560.0, 5343.0, 5685.0, 5342.0 (number of hits: 5)
26	5550	9	1	333	1	5518.0, 5342.0, 5573.0, 5542.0, 5349.0, 5259.0, 5443.0, 5457.0, 5320.0, 5348.0, 5294.0, 5270.0, 5671.0, 5333.0, 5527.0, 5292.0, 5395.0, 5442.0, 5627.0, 5256.0, 5370.0, 5307.0, 5491.0, 5474.0, 5341.0, 5599.0, 5451.0, 5496.0, 5369.0, 5444.0, 5667.0, 5605.0, 5718.0, 5601.0, 5586.0, 5633.0, 5506.0, 5321.0, 5281.0, 5705.0, 5628.0, 5525.0, 5405.0, 5626.0, 5713.0, 5635.0, 5430.0, 5536.0, 5574.0, 5330.0,

						5384.0, 5460.0, 5670.0, 5520.0, 5352.0, 5595.0, 5569.0, 5508.0, 5490.0, 5624.0, 5620.0, 5298.0, 5441.0, 5432.0, 5411.0, 5344.0, 5482.0, 5463.0, 5688.0, 5562.0, 5422.0, 5596.0, 5318.0, 5440.0, 5410.0, 5379.0, 5546.0, 5419.0, 5539.0, 5258.0, 5550.0, 5618.0, 5548.0, 5493.0, 5585.0, 5461.0, 5623.0, 5357.0, 5328.0, 5579.0, 5501.0, 5695.0, 5566.0, 5538.0, 5719.0, 5428.0, 5526.0, 5615.0, 5373.0, 5274.0 (number of hits: 12)
27	5550	9	1	333	1	5367.0, 5699.0, 5379.0, 5720.0, 5384.0, 5662.0, 5695.0, 5500.0, 5679.0, 5429.0, 5382.0, 5529.0, 5450.0, 5493.0, 5398.0, 5524.0, 5703.0, 5296.0, 5286.0, 5652.0, 5383.0, 5295.0, 5702.0, 5358.0, 5435.0, 5272.0, 5637.0, 5684.0, 5624.0, 5496.0, 5705.0, 5405.0, 5544.0, 5722.0, 5519.0, 5317.0, 5336.0, 5658.0, 5298.0, 5294.0, 5285.0, 5360.0, 5675.0, 5542.0, 5676.0, 5433.0, 5276.0, 5339.0, 5558.0, 5696.0, 5333.0, 5411.0, 5257.0, 5665.0, 5273.0, 5293.0, 5505.0, 5468.0, 5530.0, 5334.0, 5537.0, 5602.0, 5631.0, 5420.0, 5290.0, 5270.0, 5550.0, 5395.0, 5553.0, 5701.0, 5372.0, 5683.0, 5670.0, 5479.0, 5381.0, 5475.0, 5431.0, 5532.0, 5694.0, 5481.0, 5669.0, 5312.0, 5643.0, 5266.0, 5593.0, 5546.0, 5570.0, 5615.0, 5368.0, 5628.0, 5508.0, 5522.0, 5573.0, 5442.0, 5712.0, 5576.0, 5277.0, 5478.0, 5715.0, 5484.0 (number of hits: 9)
28	5550	9	1	333	1	5430.0, 5677.0, 5560.0, 5639.0, 5457.0, 5375.0, 5703.0, 5681.0, 5670.0, 5309.0, 5470.0, 5502.0, 5666.0, 5259.0, 5403.0, 5602.0, 5540.0, 5538.0, 5371.0, 5459.0, 5672.0, 5404.0, 5500.0, 5295.0, 5441.0, 5455.0, 5346.0, 5358.0, 5345.0, 5425.0, 5351.0, 5521.0, 5613.0, 5414.0, 5444.0, 5283.0, 5614.0, 5696.0, 5569.0, 5407.0, 5419.0, 5722.0, 5484.0, 5352.0, 5503.0, 5693.0, 5473.0, 5449.0, 5316.0, 5678.0, 5289.0, 5601.0, 5286.0, 5307.0, 5483.0, 5426.0, 5254.0, 5718.0, 5644.0, 5641.0, 5534.0, 5626.0, 5264.0, 5591.0, 5417.0, 5539.0, 5253.0, 5663.0, 5623.0, 5621.0, 5369.0, 5683.0, 5598.0, 5686.0, 5276.0, 5250.0, 5290.0, 5509.0, 5395.0, 5304.0, 5653.0, 5544.0, 5465.0, 5394.0, 5397.0, 5593.0, 5431.0, 5563.0, 5330.0, 5537.0, 5669.0, 5575.0, 5524.0, 5424.0, 5558.0, 5608.0, 5643.0, 5481.0, 5376.0, 5382.0 (number of hits: 6)
29	5550	9	1	333	1	5473.0, 5520.0, 5530.0, 5628.0, 5454.0, 5642.0, 5318.0, 5345.0, 5670.0, 5450.0, 5311.0, 5343.0, 5467.0, 5517.0, 5398.0, 5260.0, 5280.0, 5397.0, 5466.0, 5532.0, 5708.0, 5504.0, 5579.0, 5294.0, 5635.0, 5656.0, 5609.0, 5719.0, 5287.0, 5360.0, 5487.0, 5480.0, 5667.0, 5720.0, 5692.0,

						5366.0, 5258.0, 5526.0, 5534.0, 5657.0, 5404.0, 5493.0, 5368.0, 5254.0, 5367.0, 5542.0, 5594.0, 5519.0, 5322.0, 5669.0, 5284.0, 5317.0, 5699.0, 5689.0, 5301.0, 5465.0, 5452.0, 5475.0, 5529.0, 5438.0, 5724.0, 5372.0, 5676.0, 5583.0, 5304.0, 5327.0, 5291.0, 5456.0, 5437.0, 5382.0, 5696.0, 5621.0, 5711.0, 5489.0, 5429.0, 5627.0, 5355.0, 5566.0, 5649.0, 5407.0, 5543.0, 5690.0, 5499.0, 5380.0, 5545.0, 5361.0, 5598.0, 5298.0, 5316.0, 5603.0, 5408.0, 5673.0, 5277.0, 5332.0, 5584.0, 5329.0, 5702.0, 5435.0, 5677.0, 5623.0 (number of hits: 8)
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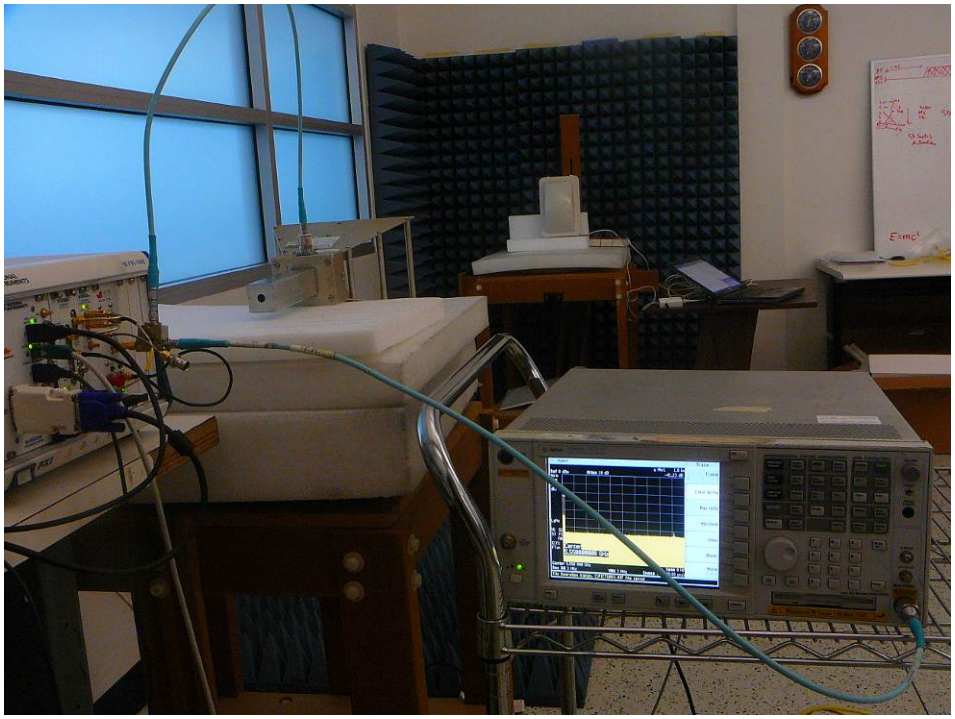
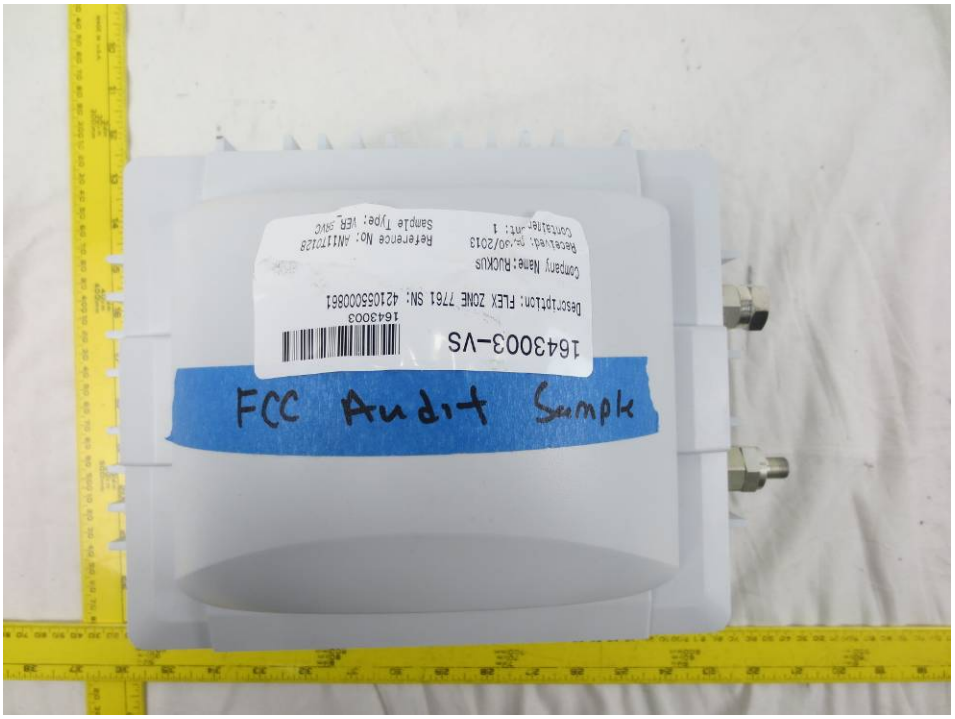
7 Exhibit A – Test Setup Photographs

7.1 DFS Test Setup View



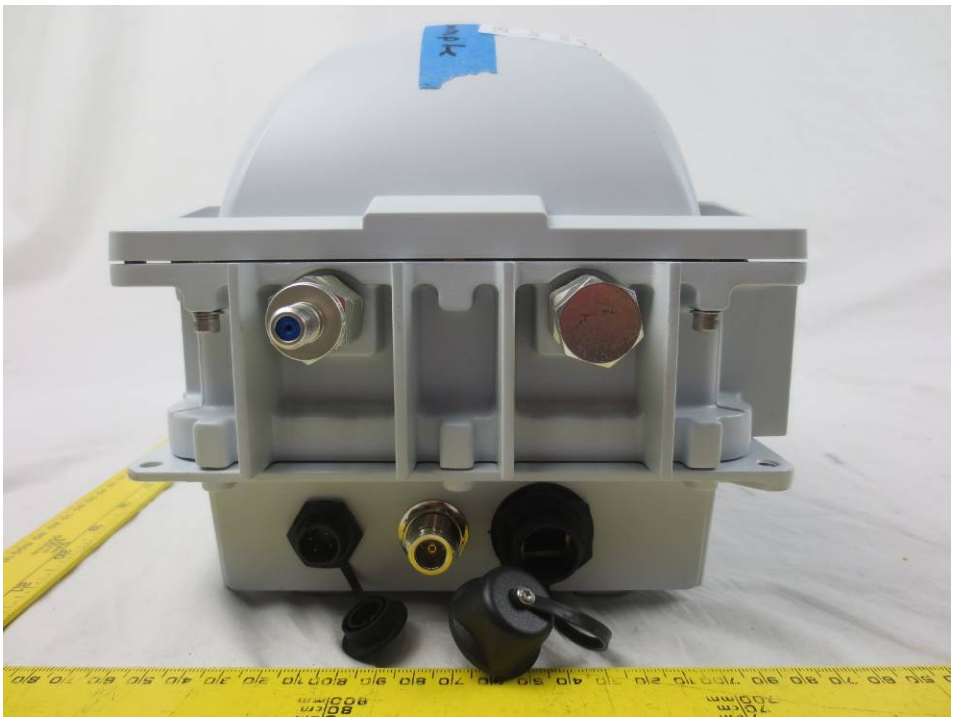
8 Exhibit B – EUT Photographs

8.1 EUT – Top View

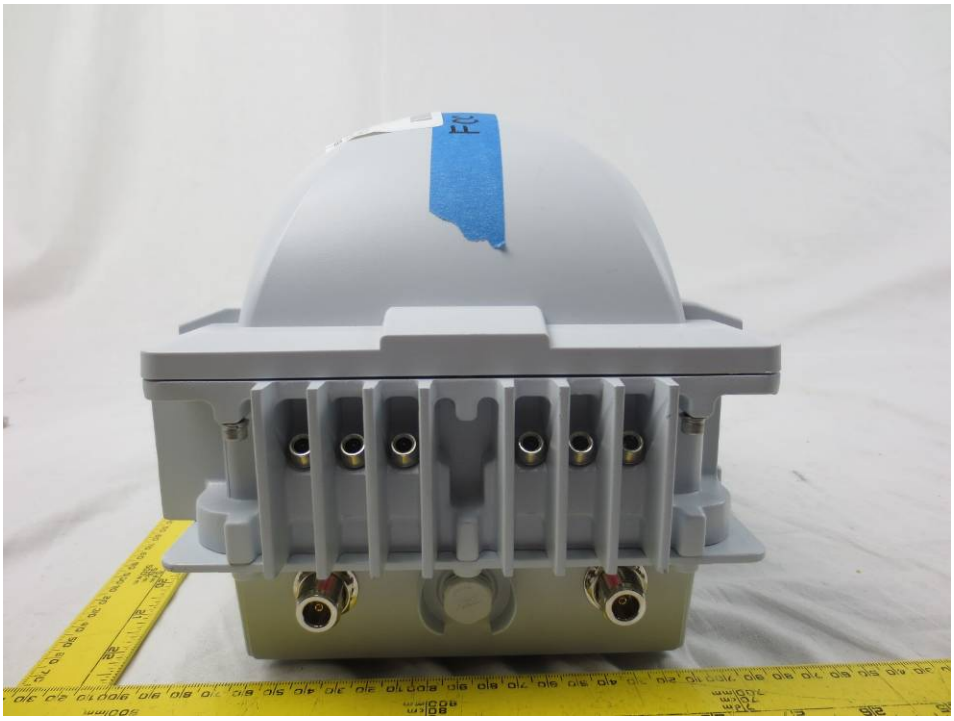


8.2 EUT – Bottom View

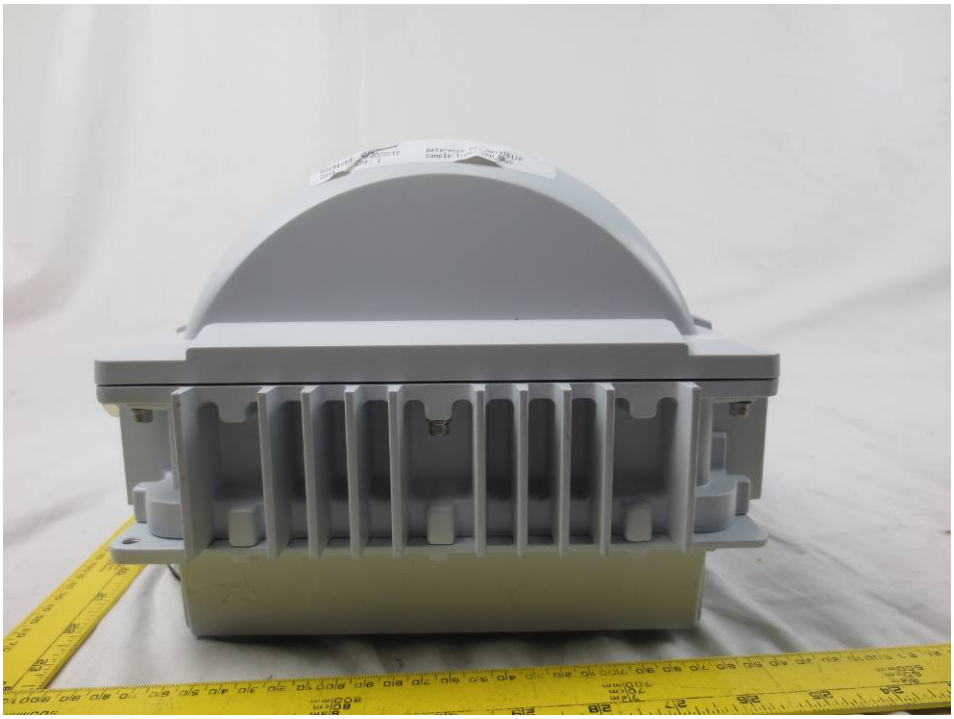
8.3 EUT – Front View



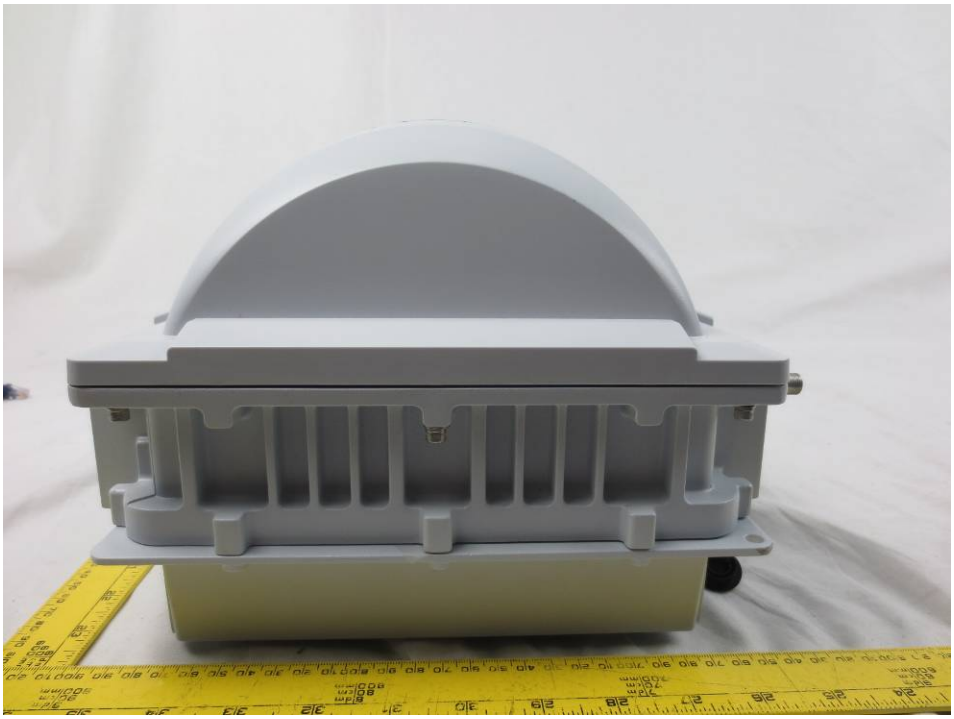
8.4 EUT – Rear View



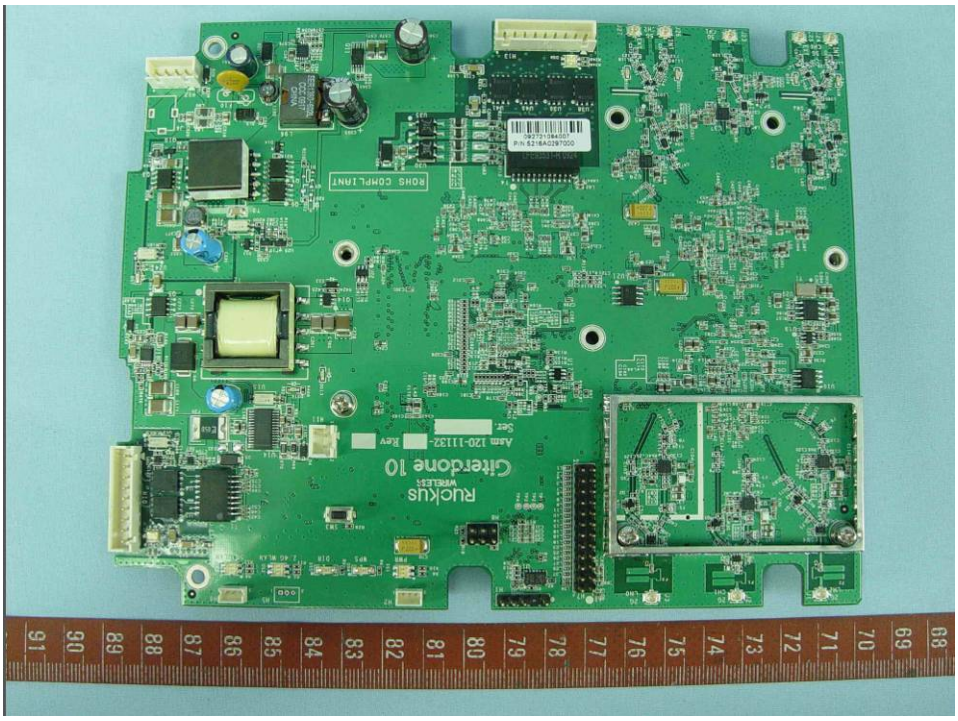
8.5 EUT – Left View



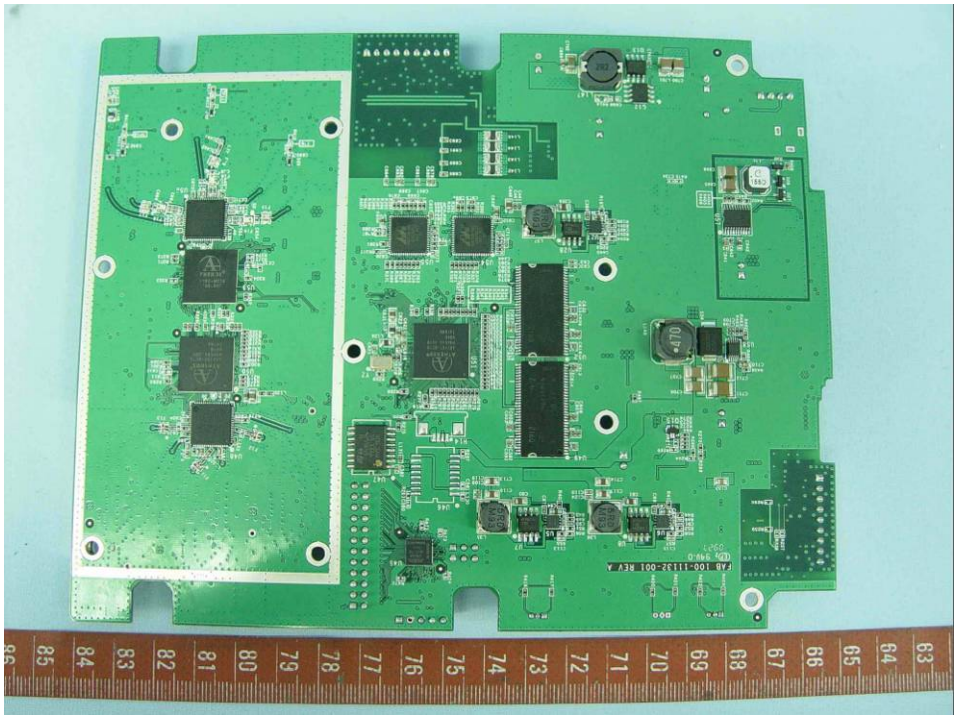
8.6 EUT – Right View



8.7 Main Board – Top View



8.8 Main Board – Bottom View



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