

FCC Radio Test Report (Spot Check Verification)

FCC ID: SI5VRE3000

This report concerns: Class II Permissive Change

Type of device: Master Device

Project No. : 1807T004B
Equipment : Verizon 5G Home Wi-Fi Extender
Test Model : VRE3000
Series Model : N/A
Applicant : U-MEDIA Communications, Inc.
Address : 9F, No.1, Jin-shan 7th St. Hsinchu Taiwan

Date of Receipt : Feb. 20, 2019
Date of Test : Feb. 20, 2019 ~ Mar. 13, 2019
Issued Date : Apr. 03, 2019
Tested by : BTL Inc.

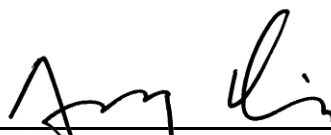
Testing Engineer :


(Kay Wu)

Technical Manager :


(James Chiu)

Authorized Signatory :


(Andy Chiu)

B T L I N C .

No.18, Ln. 171, Sec. 2, Jiuzong Rd.,
Neihu Dist., Taipei City 114, Taiwan (R.O.C.)
TEL: +886-2-2657-3299 FAX: +886-2-2657-3331



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BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

CONTENTS

REPORT ISSUED HISTORY	4
1 CERTIFICATION	5
2 GENERAL INFORMATION	6
2.1 DESCRIPTION OF EUT	6
2.2 DESCRIPTION OF ANTENNA PORT	8
2.3 EIRP POWER	9
2.4 MANUFACTURER STATEMENT	9
3 TECHNICAL REQUIREMENTS	10
3.1 APPLICABILITY	10
3.2 DFS DETECTION THRESHOLDS	11
3.3 RESPONSE REQUIREMENTS	11
4 RADAR TEST WAVEFORMS	12
4.1 SHORT PULSE RADAR TEST WAVEFORMS	12
4.2 LONG PULSE RADAR TEST WAVEFORM	13
4.3 FREQUENCY HOPPING RADAR TEST WAVEFORM	14
5 TEST PROCEDURES	15
5.1 MEASUREMENT SYSTEM	15
5.2 CALIBRATION OF DFS DETECTION THRESHOLD LEVEL	16
6 LIST OF MEASURING EQUIPMENTS	17
7 TEST RESULT	18
7.1 SUMMARY OF TEST RESULTS	18
7.2 TEST MODES	18
7.3 DFS DETECTION THRESHOLD LEVEL	19
7.4 RADAR WAVEFORM CALIBRATION RESULT	20
7.5 CHANNEL LOADING TEST RESULT	23
7.6 U-NII DETECTION BANDWIDTH	24
7.7 CHANNEL AVAILABILITY CHECK TIME	30
7.8 IN-SERVICE MONITORING FOR CHANNEL MOVE TIME, CHANNEL CLOSING TRANSMISSION TIME AND NON-OCCUPANCY PERIOD	32
7.9 SUCCESSFUL DETECTION RATE	34
7.10 STATISTICAL PERFORMANCE CHECK	36
8 EUT TEST PHOTO	108

REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue. This is a supplementary report to the original test report (BTL-FCCP-2-1807T004A, FCC ID: SI5VRE3000). The difference compared with original report is changed power amplifier component from SKY85728-11 to AP5519.	Mar. 25, 2019
R01	Revised report to address TCB's comments.	Apr. 03, 2019

1 CERTIFICATION

Equipment : Verizon 5G Home Wi-Fi Extender
Brand Name : Verizon
Test Model : VRE3000
Series Model : N/A
Applicant : U-MEDIA Communications, Inc.
Manufacturer : U-MEDIA Communications, Inc.
Address : No. 90, Kuang Fu Nth.Rd., Hsinchu Industrial Park, Hu Kou, Hsinchu, 303,
Taiwan
Date of Test : Feb. 20, 2019 ~ Mar. 13, 2019
Test Sample : Engineering Sample
Standard(s) : FCC Part15, Subpart E (§15.407)
FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

The above equipment has been tested and found in compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-3-1807T004B) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO/IEC 17025 quality assessment standard and technical standard(s).

Test results included in this report is only for the RLAN 5GHz DFS part.

2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment	Verizon 5G Home Wi-Fi Extender				
Brand Name	Verizon				
Test Model	VRE3000				
Series Model	N/A				
Model Difference	N/A				
Product Specification	Frequency Range	UNII-2A: 5250 MHz to 5350 MHz UNII-2C: 5470 MHz to 5725 MHz			
	Operation Frequency	UNII-2A: 5260 MHz to 5320 MHz UNII-2C: 5500 MHz to 5700 MHz			
	Modulation Type	OFDM			
	RF Chips	The EUT contains two RF Chips which functions are as below			
		Chip	2.4 GHz	5 GHz	Chains
		MT7615N	NO	YES UNII-1 UNII-2A	4T4R
		MT7615DN	YES	YES UNII-2C UNII-3	2T2R
	Operation Mode	Master Device			
	Bridge or MESH Modes	No support.			

NOTE:

(1) For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

(2) Channel List:

UNII-2A					
IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (HT20)		IEEE 802.11n (HT40) IEEE 802.11ac (HT40)		IEEE 802.11ac (VHT80)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	54	5270	58	5290
56	5280	62	5310		
60	5300				
64	5320				

UNII-2C					
IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (HT20)		IEEE 802.11n (HT40) IEEE 802.11ac (HT40)		IEEE 802.11ac (VHT80)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590	138	5690
112	5560	126	5630		
116	5580	134	5670		
120	5600				
124	5620				
128	5640				
132	5660				
136	5680				
140	5700				

(3) Table for Filed Antenna:

Group 1:

UNII-2A:

Ant.	Brand	Model	Type	Connector	Gain (dBi)
JC1	Galtronics	02102142-06808Ax	PCB	iPEX	3.4
JC3	Galtronics	02102142-06808Ax	PCB	iPEX	3.4
JC4	Galtronics	02102142-06808Ax	PCB	iPEX	3.4
JC5	Galtronics	02102142-06808Ax	PCB	iPEX	3.4

UNII-2C:

Ant.	Brand	Model	Type	Connector	Gain (dBi)
JC6	Galtronics	02102140-06808Ax	PCB	iPEX	3.5
JC7	Galtronics	02102140-06808Ax	PCB	iPEX	3.5

Group 2:

UNII-2A:

Ant.	Brand	Model	Type	Connector	Gain (dBi)
JC1	Galtronics	02102142-06808Cx	PCB	iPEX	3.1
JC3	Galtronics	02102142-06808Cx	PCB	iPEX	3.1
JC4	Galtronics	02102142-06808Cx	PCB	iPEX	3.1
JC5	Galtronics	02102142-06808Cx	PCB	iPEX	3.1

UNII-2C:

Ant.	Brand	Model	Type	Connector	Gain (dBi)
JC6	Galtronics	02102140-06808Bx	PCB	iPEX	2.8
JC7	Galtronics	02102140-06808Bx	PCB	iPEX	2.8

NOTE:

- (a) The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (UNII-2A: 4T4R, UNII-2C: 2T2R). 2.4 GHz and 5GHz can transmit simultaneously.

(b) For UNII-2A:

All JC1, JC3, JC4 and JC5 can be used as transmitting/receiving antenna.

C1, JC3, JC4 and JC5 could transmit/receive simultaneously.

The C1 + JC3 + JC4 + JC5 generated the worst case, so it was selected to test and record in the report.

For UNII-2C:

All JC6 and JC7 can be used as transmitting/receiving antenna.

JC6 and JC7 could transmit/receive simultaneously.

The C6 + JC7 generated the worst case, so it was selected to test and record in the report.

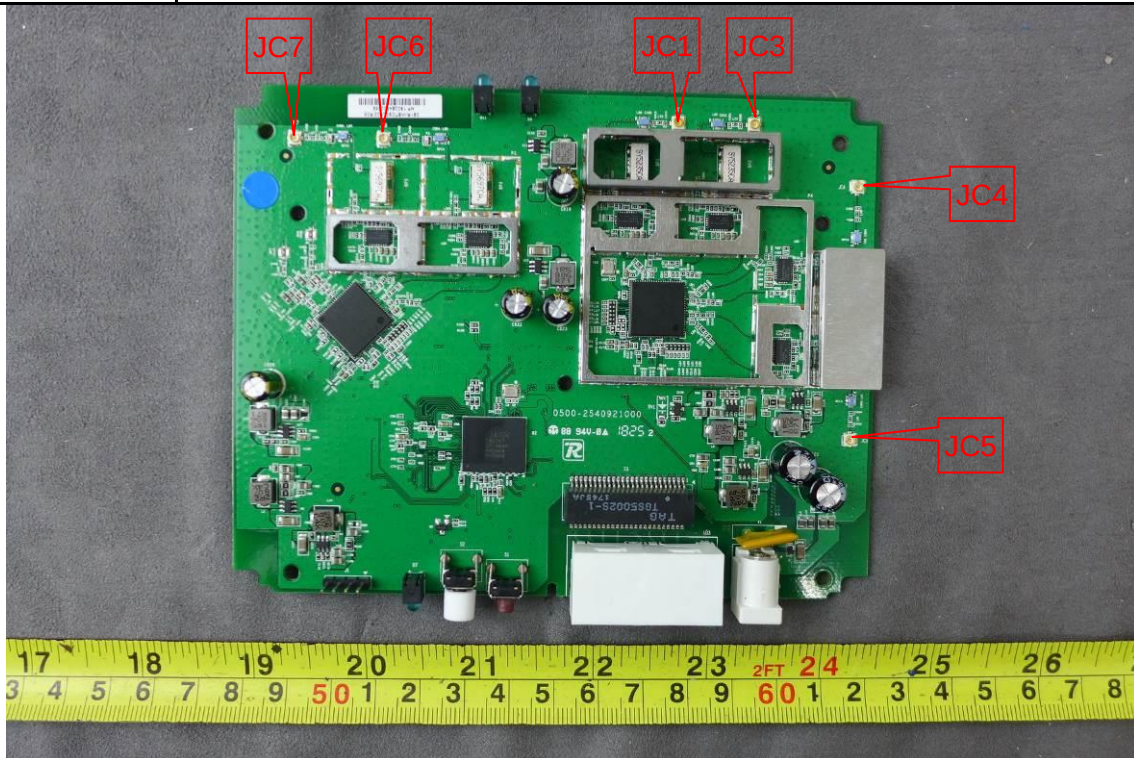
(c) The EUT UNII-2A (N mode & AC mode) is with beamforming function.

The UNII-2A beamforming gain is 4.46 dB.

The EUT UNII-2A (A mode) and UNII-2C does not support beamforming function.

2.2 DESCRIPTION OF ANTENNA PORT

Frequency	Antenna Port
UNII-2A	JC1, JC3, JC4 and JC5
UNII-2C	JC6 and JC7



2.3 EIRP POWER

Test Mode	UNII-2A
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Frequency (MHz)	Maximum Conducted Power (dBm)	Antenna Gain (dBi)	Maximum EIRP Power (dBm)	Maximum EIRP Power (mW)	Remark
5260 to 5320	14.13	3.4	17.53	56.6239	NOTE (1)

Test Mode	UNII-2C
-----------	---------

Frequency (MHz)	Maximum Conducted Power (dBm)	Antenna Gain (dBi)	Maximum EIRP Power (dBm)	Maximum EIRP Power (mW)	Remark
5500 to 5700	16.86	3.5	20.36	108.6426	NOTE (1)

NOTE:

(1) EIRP Power (dBm) = Conducted Power (dBm) + Antenna Gain (dBi).

Power (mW) = $1 \text{ mW} * 10^{(\text{dBm} / 10)}$.

2.4 MANUFACTURER STATEMENT

Manufacturer statement confirming that information regarding the parameters of the detected Radar Waveforms is not available to the end user.

The manufacturer is permitted to select the first channel either manually or randomly. The manufacturer may also block DFS channels from use.

The intention of the uniform spreading is to provide, on aggregate, a uniform loading of the spectrum. The UUT using the bands 5250 to 5350MHz and 5470 to 5600 MHz channels so that the probability of selecting a given channel shall be the same for channels. The UUT will select channel by random mode and remember this channel when detect radar signal, so that will select unused channel by random mode.

3 TECHNICAL REQUIREMENTS

3.1 APPLICABILITY

According to FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02, the following tables are applicable.

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
<i>Non-Occupancy Period</i>	Yes	Not required	Yes
<i>DFS Detection Threshold</i>	Yes	Not required	Yes
<i>Channel Availability Check Time</i>	Yes	Not required	Not required
<i>U-NII Detection Bandwidth</i>	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
<i>DFS Detection Threshold</i>	Yes	Not required
<i>Channel Closing Transmission Time</i>	Yes	Yes
<i>Channel Move Time</i>	Yes	Yes
<i>U-NII Detection Bandwidth</i>	Yes	Not required

Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection
<i>U-NII Detection Bandwidth and Statistical Performance Check</i>	All BW modes must be tested	Not required
<i>Channel Move Time and Channel Closing Transmission Time</i>	Test using widest BW mode available	Test using the widest BW mode available for the link
<i>All other tests</i>	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.

3.2 DFS DETECTION THRESHOLDS

According to FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02, the following table is required.

Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

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

3.3 RESPONSE REQUIREMENTS

According to FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02, the following table is required.

Table 4: DFS Response Requirement Values

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

4 RADAR TEST WAVEFORMS

According to FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02, the following parameters are required.

This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

4.1 SHORT PULSE RADAR TEST WAVEFORMS

Table 5 – Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of 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	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.					

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B.

Table 5a - Pulse Repetition Intervals Values for Test A

Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (Microseconds)
1	1930.5	518
2	1858.7	538
3	1792.1	558
4	1730.1	578
5	1672.2	598
6	1618.1	618
7	1567.4	638
8	1519.8	658
9	1474.9	678
10	1432.7	698
11	1392.8	718
12	1355	738
13	1319.3	758
14	1285.3	778
15	1253.1	798
16	1222.5	818
17	1193.3	838
18	1165.6	858
19	1139	878
20	1113.6	898
21	1089.3	918
22	1066.1	938
23	326.2	3066

4.2 LONG PULSE RADAR TEST WAVEFORM

Table 6 – Long Pulse Radar Test Waveform

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

The parameters for this waveform are randomly chosen. Thirty unique waveforms are required for the Long Pulse Radar Type waveforms. If more than 30 waveforms are used for the Long Pulse Radar Type waveforms, then each additional waveform must also be unique and not repeated from the previous waveforms.

4.3 FREQUENCY HOPPING RADAR TEST WAVEFORM

Table 7 – Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (μsec)	PRI (μsec)	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

For the Frequency Hopping Radar Type, the same *Burst* parameters are used for each waveform. The hopping sequence is different for each waveform and a 100-length segment is selected from the hopping sequence defined by the following algorithm: ⁴

The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250 – 5724 MHz. Next, the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues until all 475 frequencies are chosen for the set. For selection of a random frequency, the frequencies remaining within the group are always treated as equally likely.

5 TEST PROCEDURES

The test procedures follow the descriptions of the FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02, section 7.

The conducted test procedure and setup are used for this testing.

5.1 MEASUREMENT SYSTEM

1. Master device and client device are set up by conduction method as the following configuration.
2. The client device is connected to notebook and to access an IP address on wireless connection with the master device.
3. Then the master device is connected to another notebook to access an IP address.
4. Finally, let the two IP addresses run traffic with each other through the Run flow software "Lan test" to reach 17% channel loading as below.

The following test setup is used for this testing.

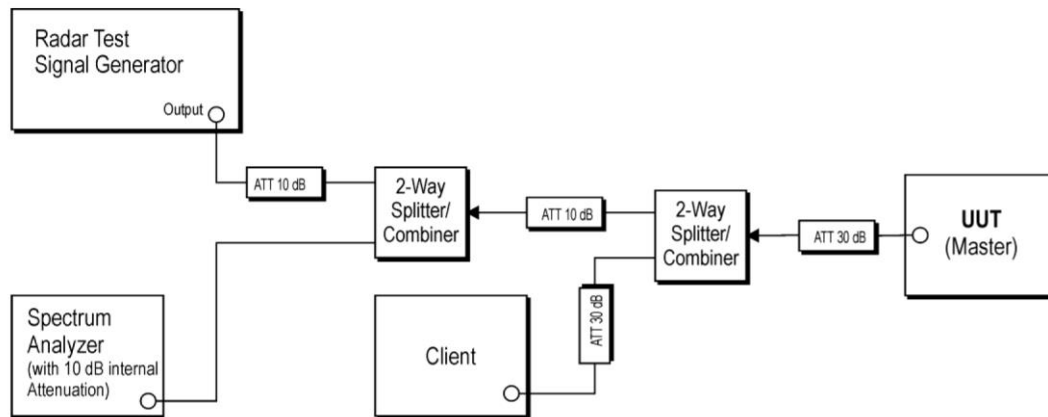


Figure 2: Example Conducted Setup where UUT is a Master and Radar Test Waveforms are injected into the Master

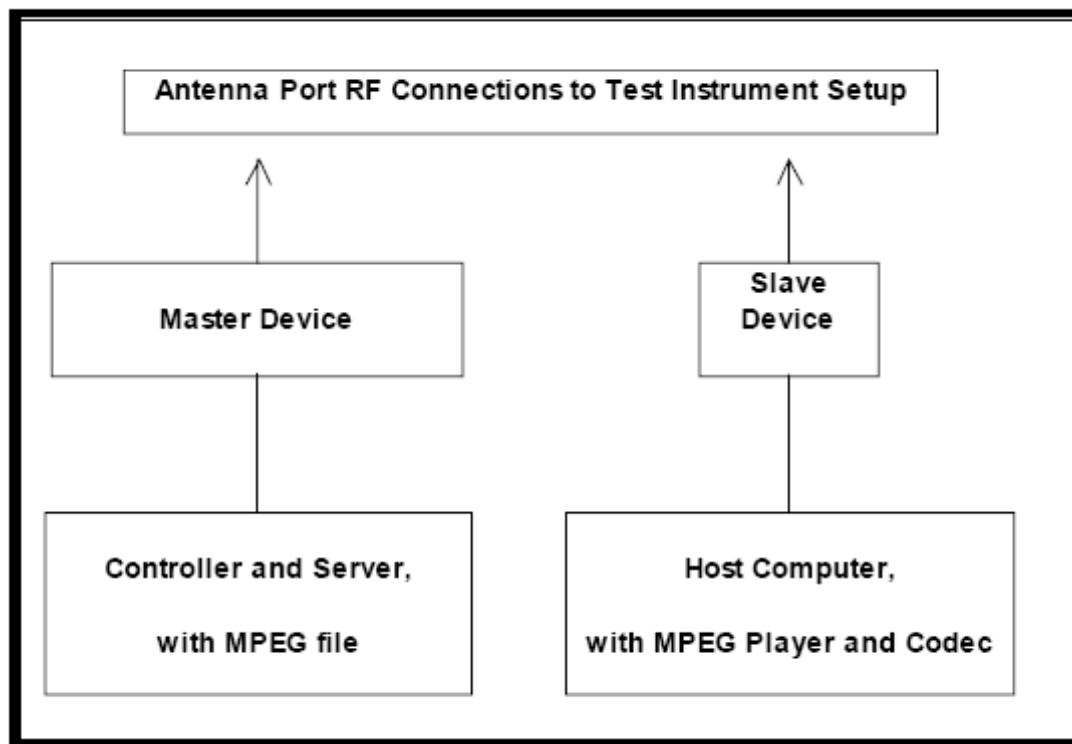
5.2 CALIBRATION OF DFS DETECTION THRESHOLD LEVEL

A 50 ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected in place of the master device and the signal generator is set to CW mode. The amplitude of the signal generator is adjusted to yield a level of -62 dBm as measured on the spectrum analyzer.

Without changing any of the instrument settings, the spectrum analyzer is reconnected to the Common port of the Spectrum Analyzer Combiner/Divider. Measure the amplitude and calculate the difference from -62 dBm. Adjust the Reference Level Offset of the spectrum analyzer to this difference.

The spectrum analyzer displays the level of the signal generator as received at the antenna ports of the Master Device. The interference detection threshold may be varied from the calibrated value of -62 dBm and the spectrum analyzer will still indicate the level as received by the Master Device. Set the signal generator to produce a radar waveform, trigger a burst manually and measure the level on the spectrum analyzer. Readjust the amplitude of the signal generator as required so that the peak level of the waveform is at a displayed level equal to the required or desired interference detection threshold. Separate signal generator amplitude settings are determined as required for each radar type.

The output power range and antenna gain had been taken into account.



6 LIST OF MEASURING EQUIPMENTS

Dynamic Frequency Selection (DFS)					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	Keysight	N9010A	MY54200240	Aug. 26, 2019
2	MXG Vector Signal Generator	Agilent	N5182B	MY51350711	May 28, 2019
3	10dB Attenuators	Mini-Circuits	VAT-10+	N/A	May 14, 2019
4	10dB Attenuators	Mini-Circuits	VAT-10+	N/A	May 14, 2019
5	30dB Attenuators	Mini-Circuits	VAT-30+	N/A	May 14, 2019
6	30dB Attenuators	Mini-Circuits	VAT-30+	N/A	May 14, 2019
7	POWER SPLITTER	Mini-Circuits	ZFRSC-123-S+	N/A	May 14, 2019
8	POWER SPLITTER	Mini-Circuits	ZFRSC-123-S+	N/A	May 14, 2019

Remark: "N/A" denotes no model name, no serial no. or no calibration specified.
All calibration period of equipment list is one year.

7 TEST RESULT

7.1 SUMMARY OF TEST RESULTS

FCC Part15, Subpart E (§15.407)				
FCC Clause No	Description	Test Result	Judgement	Remark
§15.407(h)(2)	U-NII Detection Bandwidth	7.6	Pass	-----
§15.407(h)(2)	Initial Channel Availability Check Time	7.7	Pass	-----
§15.407(h)(2)	Radar Burst at the Beginning of the Channel Availability Check Time	7.7	Pass	-----
§15.407(h)(2)	Radar Burst at the End of the Channel Availability Check Time	7.7	Pass	-----
§15.407(h)(2)	In-Service Monitoring for Channel Move Time	7.8	Pass	-----
§15.407(h)(2)	In-Service Monitoring for Channel Closing Transmission Time	7.8	Pass	-----
§15.407(h)(2)	In-Service Monitoring for Non-Occupancy Period	7.8	Pass	-----
§15.407(h)(2)	Statistical Performance Check	7.9 7.10	Pass	-----
§15.407(h)(2)	Uniform Spreading	2.4	Pass	-----

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report.
- (2) This is a supplementary report to the original test report (BTL-FCCP-1-1807T004A, FCC ID: S15VRE3000). The difference compared with original report is changed power amplifier component from SKY85728-11 to AP5519.
Declared by manufacturer, the power amplifiers are electrically and functionally identical. Only the model name is different.
- (3) The spot check test modes were verified on the maximum bandwidth (IEEE 802.11ac (VHT80)) and the test results are recorded in this report.
- (4) After spot check, this revision does not change original radio parameters.

7.2 TEST MODES

Test Mode	Description
1	Master with injection at the Master

NOTE: The EUT contains two RF Chips. Band UNII-2A is controlled by MT7615N; band UNII-2C is controlled by MT7615DN.

NOTE:

- (1) The spot check test modes were verified on the maximum bandwidth (IEEE 802.11ac (VHT80)).

7.3 DFS DETECTION THRESHOLD LEVEL

For band UNII-2A:

The maximum transmit power is < 200 milliwatt and the power spectral density is < 10 dBm/MHz, so the DFS detection threshold level is $-62 \text{ dBm} + 3.4 \text{ dBi} = -58.6 \text{ dBm}$ that had been taken into account the output power range and antenna gain.

For band UNII-2C:

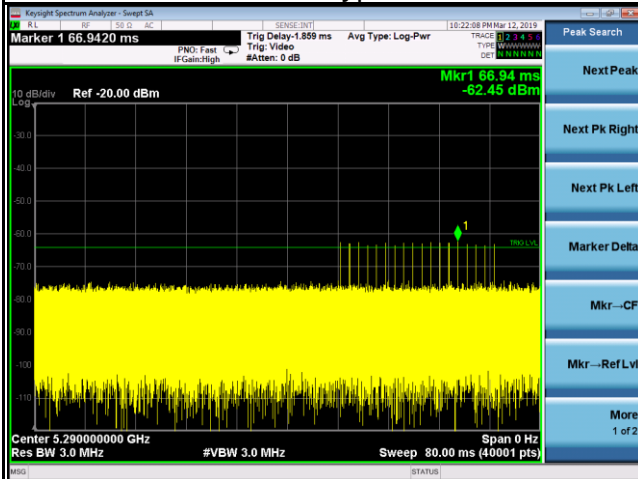
The maximum transmit power is < 200 milliwatt and the power spectral density is < 10 dBm/MHz, so the DFS detection threshold level is $-62 \text{ dBm} + 3.5 \text{ dBi} = -58.5 \text{ dBm}$ that had been taken into account the output power range and antenna gain.

7.4 RADAR WAVEFORM CALIBRATION RESULT

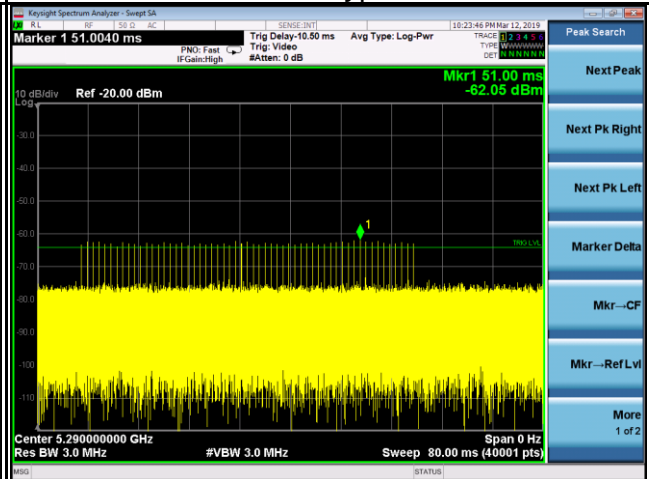
For UII-2A

Calibrated DFS Detection Threshold Level Plot

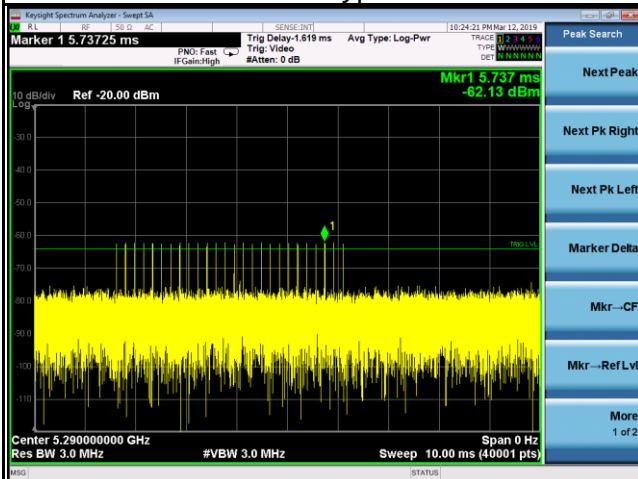
Radar Type 0



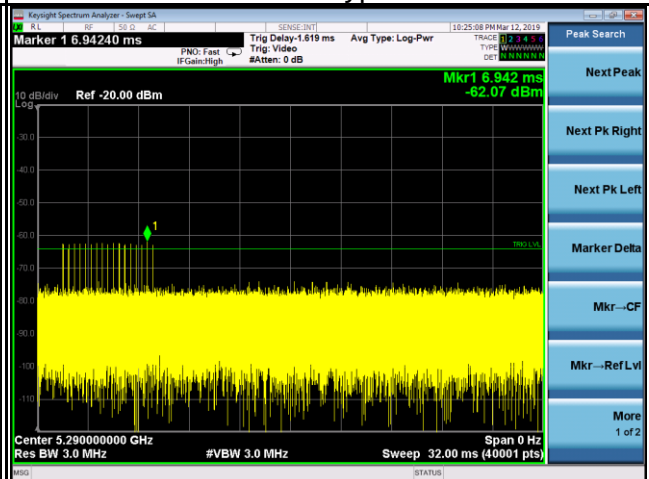
Radar Type 1



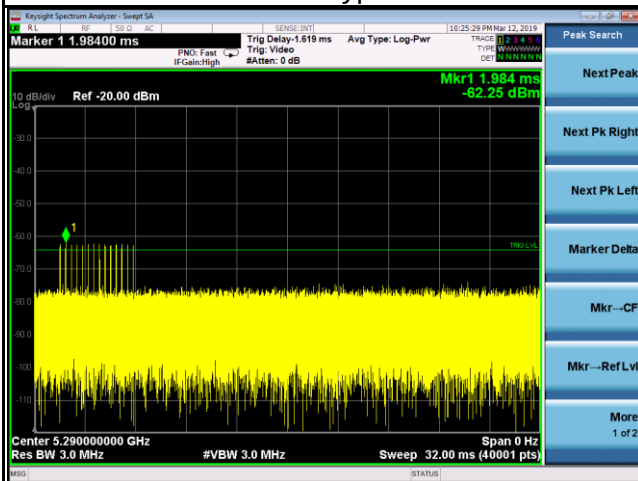
Radar Type 2



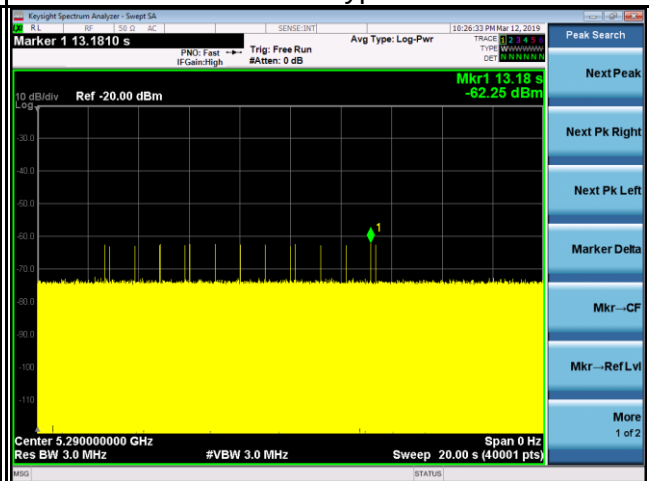
Radar Type 3



Radar Type 4

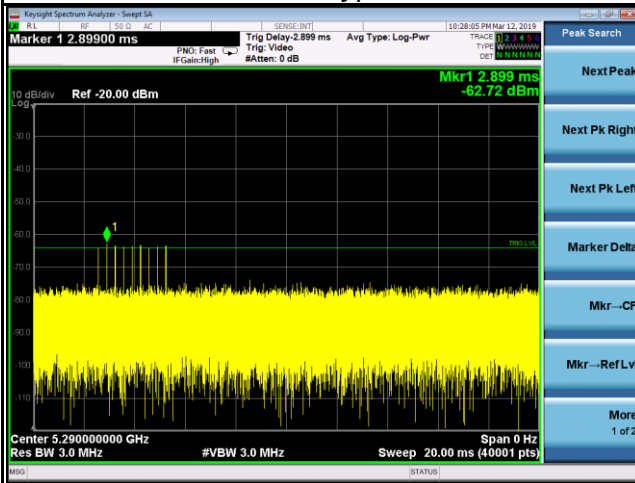


Radar Type 5



Calibrated DFS Detection Threshold Level Plot

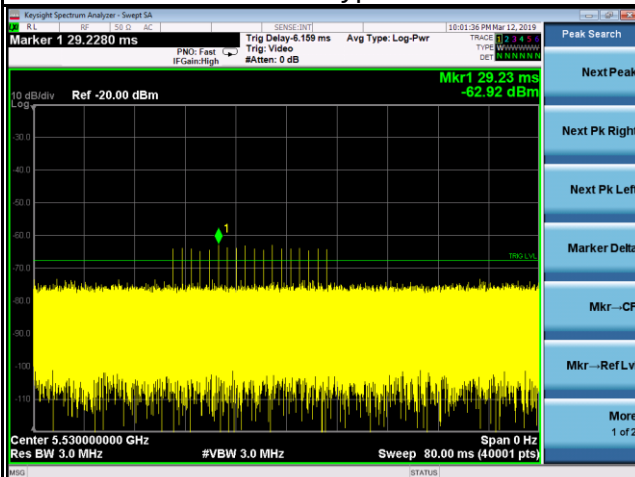
Radar Type 6



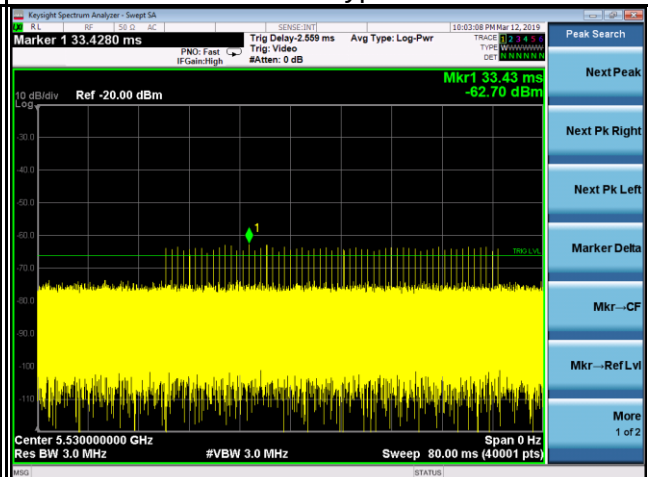
For UII-2C

Calibrated DFS Detection Threshold Level Plot

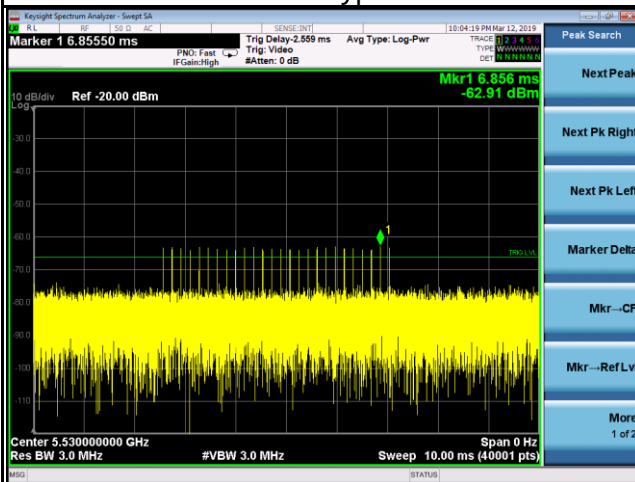
Radar Type 0



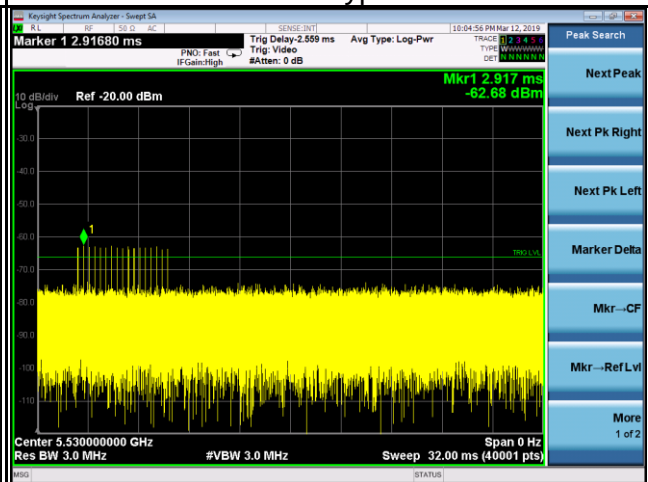
Radar Type 1



Radar Type 2

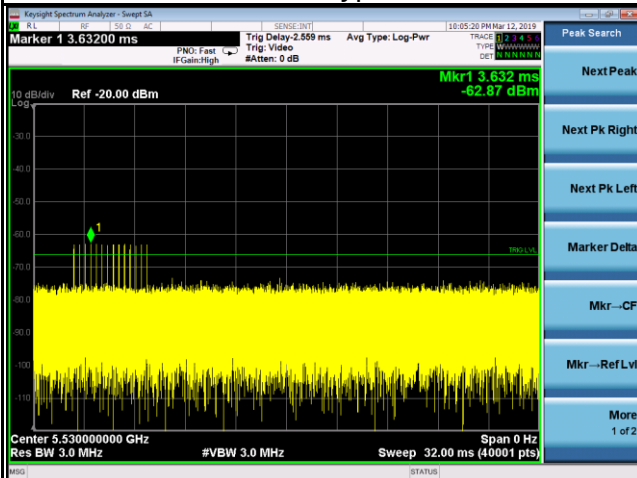


Radar Type 3

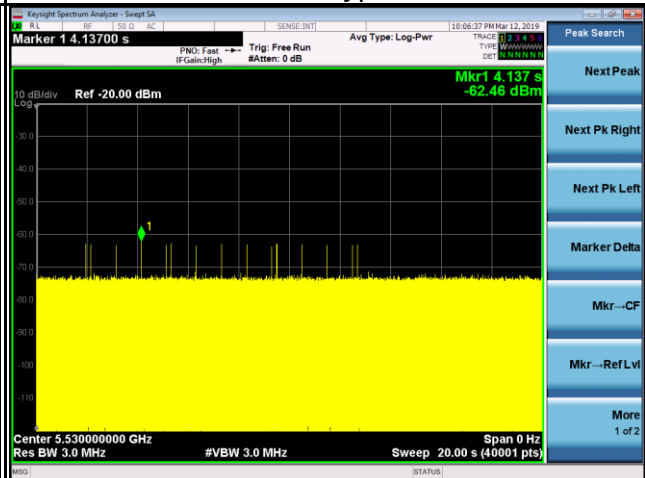


Calibrated DFS Detection Threshold Level Plot

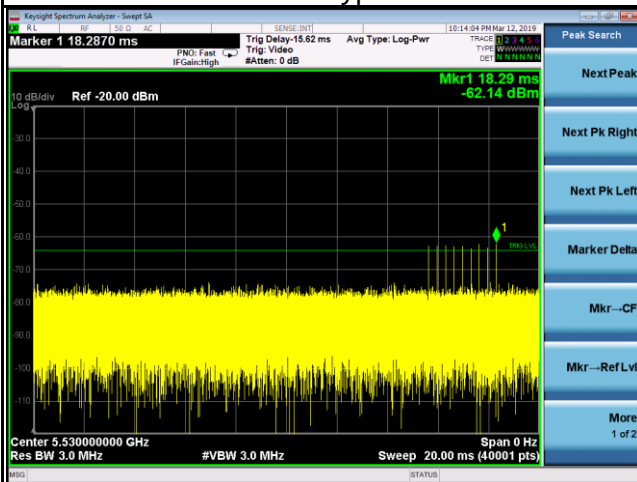
Radar Type 4



Radar Type 5

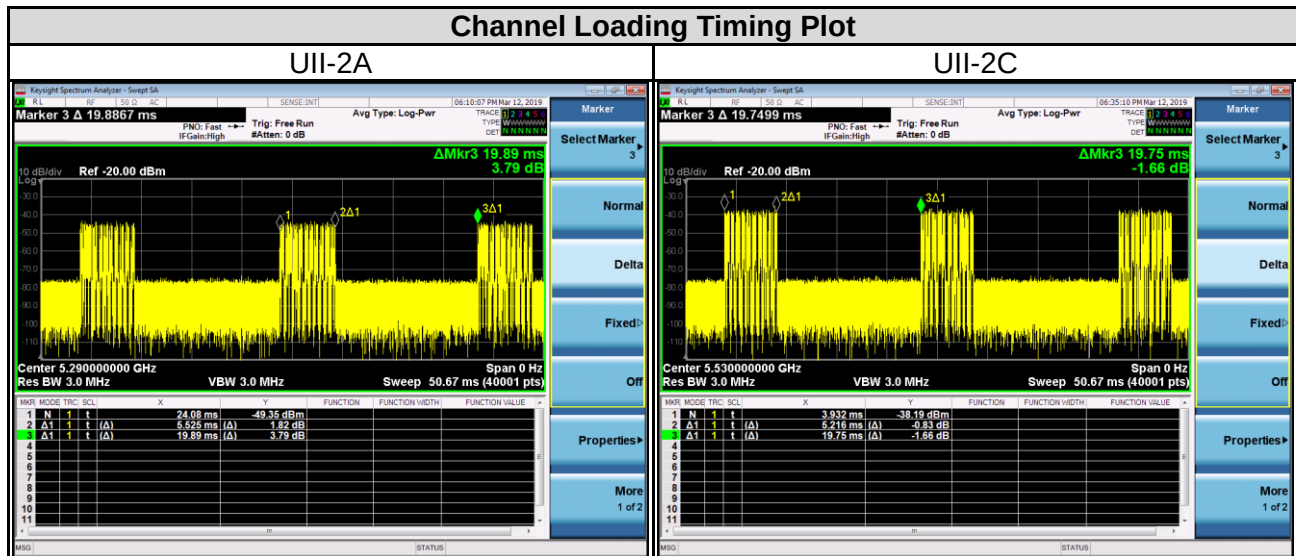


Radar Type 6



7.5 CHANNEL LOADING TEST RESULT

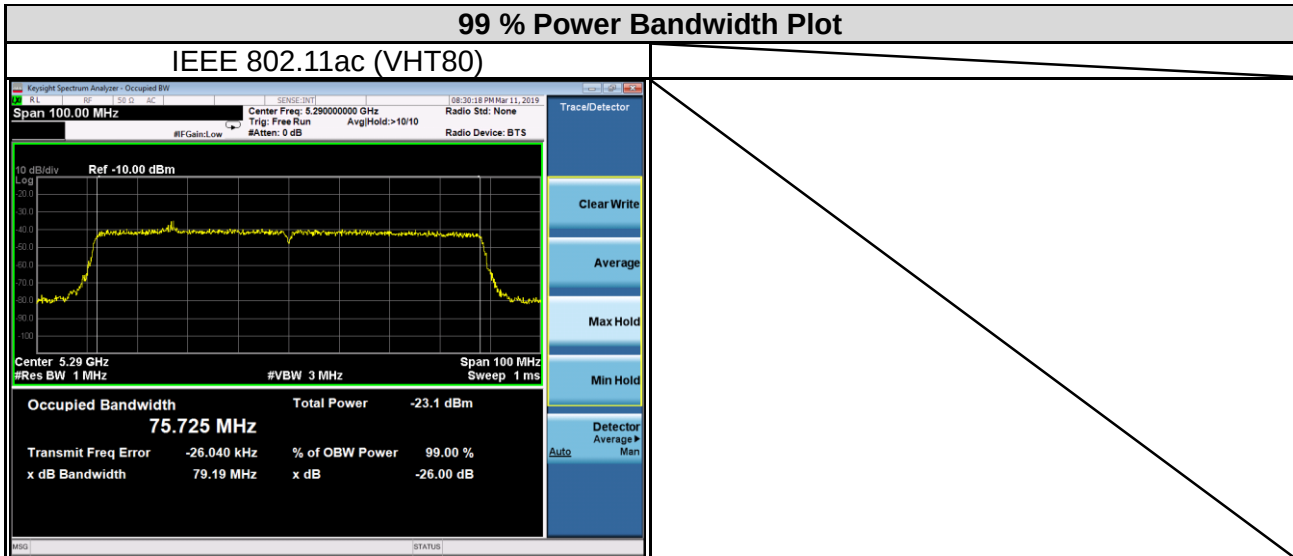
Timing plots are required with calculations demonstrating a minimum channel loading of approximately 17 % or greater. For example, channel loading can be estimated by setting the spectrum analyzer for zero span and approximate the Time On / (Time On + Off Time). This can be done with any appropriate channel BW and modulation type.



Test Mode	Single Time On (ms)	Number of Time On	Total Time On (ms)	Time On + Off Time (ms)	Channel Loading Ratio (%)	Required Ratio (%)
UII-2A	5.525	1	5.525	19.89	27.78	≥ 17%
UII-2C	5.216	1	5.216	19.75	26.41	≥ 17%

7.6 U-NII DETECTION BANDWIDTH

For U-II-2A



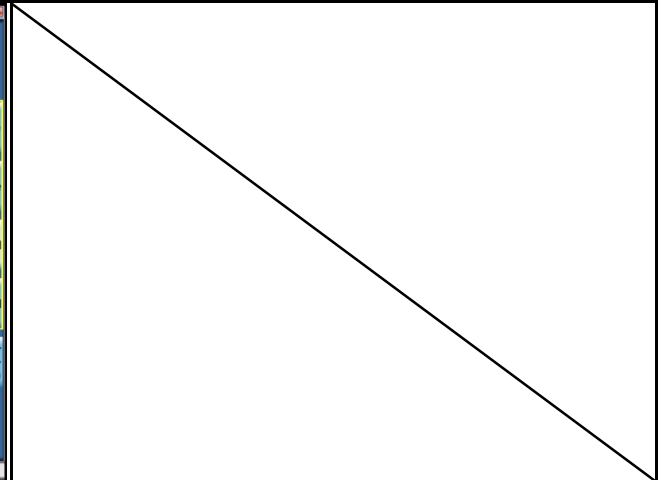
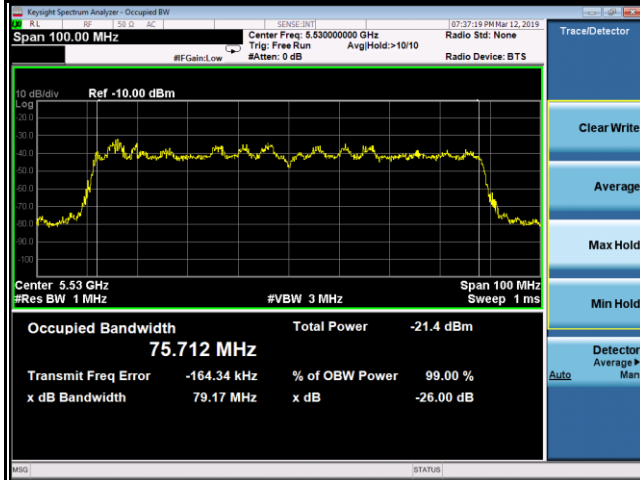
Test Mode		IEEE 802.11ac (VHT80)										
Detection Bandwidth test transmission				80 MHz								
EUT FREQUENCY			5290 MHz									
EUT power bandwidth			75.888 MHz									
Detection Bandwidth limit(100%of EUT 99% Power bandwidth)								75.725 MHz				
Detection Bandwidth(5328(FH)-5251(FL))						77 MHz						
Test Result		PASS										
Radar Freq (MHz)	DFS Detection Trials (1=Detection, 0= No Detection)										Detection Rate (%)	
	1	2	3	4	5	6	7	8	9	10		
5249	0	0	0	0	0	0	0	0	0	0	0	
5250	0	0	0	0	0	0	0	0	0	0	0	
5251(FL)	1	1	1	1	1	1	1	1	1	1	100	
5252	1	1	1	1	1	1	1	1	1	1	100	
5253	1	1	1	1	1	1	1	1	1	1	100	
5254	1	1	1	1	1	1	1	1	1	1	100	
5255	1	1	1	1	1	1	1	1	1	1	100	
5256	1	1	1	1	1	1	1	1	1	1	100	
5257	1	1	1	1	1	1	1	1	1	1	100	
5258	1	1	1	1	1	1	1	1	1	1	100	
5259	1	1	1	1	1	1	1	1	1	1	100	
5260	1	1	1	1	1	1	1	1	1	1	100	
5261	1	1	1	1	1	1	1	1	1	1	100	
5262	1	1	1	1	1	1	1	1	1	1	100	
5263	1	1	1	1	1	1	1	1	1	1	100	
5264	1	1	1	1	1	1	1	1	1	1	100	
5265	1	1	1	1	1	1	1	1	1	1	100	
5266	1	1	1	1	1	1	1	1	1	1	100	
5267	1	1	1	1	1	1	1	1	1	1	100	
5268	1	1	1	1	1	1	1	1	1	1	100	
5269	1	1	1	1	1	1	1	1	1	1	100	
5270	1	1	1	1	1	1	1	1	1	1	100	
5271	1	1	1	1	1	1	1	1	1	1	100	
5272	1	1	1	1	1	1	1	1	1	1	100	
5273	1	1	1	1	1	1	1	1	1	1	100	
5274	1	1	1	1	1	1	1	1	1	1	100	
5275	1	1	1	1	1	1	1	1	1	1	100	
5276	1	1	1	1	1	1	1	1	1	1	100	
5277	1	1	1	1	1	1	1	1	1	1	100	
5278	1	1	1	1	1	1	1	1	1	1	100	
5279	1	1	1	1	1	1	1	1	1	1	100	
5280	1	1	1	1	1	1	1	1	1	1	100	
5281	1	1	1	1	1	1	1	1	1	1	100	
5282	1	1	1	1	1	1	1	1	1	1	100	
5283	1	1	1	1	1	1	1	1	1	1	100	
5284	1	1	1	1	1	1	1	1	1	1	100	
5285	1	1	1	1	1	1	1	1	1	1	100	
5286	1	1	1	1	1	1	1	1	1	1	100	
5287	1	1	1	1	1	1	1	1	1	1	100	
5288	1	1	1	1	1	1	1	1	1	1	100	
5289	1	1	1	1	1	1	1	1	1	1	100	
5290	1	1	1	1	1	1	1	1	1	1	100	
5291	1	1	1	1	1	1	1	1	1	1	100	
5292	1	1	1	1	1	1	1	1	1	1	100	
5293	1	1	1	1	1	1	1	1	1	1	100	
5294	1	1	1	1	1	1	1	1	1	1	100	
5295	1	1	1	1	1	1	1	1	1	1	100	
5296	1	1	1	1	1	1	1	1	1	1	100	
5297	1	1	1	1	1	1	1	1	1	1	100	
5298	1	1	1	1	1	1	1	1	1	1	100	
5299	1	1	1	1	1	1	1	1	1	1	100	
5300	1	1	1	1	1	1	1	1	1	1	100	
5301	1	1	1	1	1	1	1	1	1	1	100	
5302	1	1	1	1	1	1	1	1	1	1	100	
5303	1	1	1	1	1	1	1	1	1	1	100	
5304	1	1	1	1	1	1	1	1	1	1	100	
5305	1	1	1	1	1	1	1	1	1	1	100	
5306	1	1	1	1	1	1	1	1	1	1	100	
5307	1	1	1	1	1	1	1	1	1	1	100	
5308	1	1	1	1	1	1	1	1	1	1	100	
5309	1	1	1	1	1	1	1	1	1	1	100	
5310	1	1	1	1	1	1	1	1	1	1	100	

Test Mode	IEEE 802.11ac (VHT80)										
5311	1	1	1	1	1	1	1	1	1	1	100
5312	1	1	1	1	1	1	1	1	1	1	100
5313	1	1	1	1	1	1	1	1	1	1	100
5314	1	1	1	1	1	1	1	1	1	1	100
5315	1	1	1	1	1	1	1	1	1	1	100
5316	1	1	1	1	1	1	1	1	1	1	100
5317	1	1	1	1	1	1	1	1	1	1	100
5318	1	1	1	1	1	1	1	1	1	1	100
5319	1	1	1	1	1	1	1	1	1	1	100
5320	1	1	1	1	1	1	1	1	1	1	100
5321	1	1	1	1	1	1	1	1	1	1	100
5322	1	1	1	1	1	1	1	1	1	1	100
5323	1	1	1	1	1	1	1	1	1	1	100
5324	1	1	1	1	1	1	1	1	1	1	100
5325	1	1	1	1	1	1	1	1	1	1	100
5326	1	1	1	1	1	1	1	1	1	1	100
5327	1	1	1	1	1	1	1	1	1	1	100
5328(FL)	1	1	1	1	1	1	1	1	1	1	100
5329	0	0	0	0	0	0	0	0	0	0	0
5330	0	0	0	0	0	0	0	0	0	0	0
5331	0	0	0	0	0	0	0	0	0	0	0

For UII-2C

99 % Power Bandwidth Plot

IEEE 802.11ac (VHT80)



Test Mode		IEEE 802.11ac (VHT80)										
Detection Bandwith test tranmission				80 MHz								
EUT FREQUENCY			5530 MHz									
EUT power bandwith			75.743 MHz									
Detection Bandwith limit(100%of EUT 99% Power bandwith)							75.712 MHz					
Detection Bandwith(5570(FH)-5490(FL))					80 MHz							
Test Result		PASS MHz										
Radar Freq (MHz)	DFS Detection Trials (1=Detection, 0= No Detection)										Detection Rate (%)	
	1	2	3	4	5	6	7	8	9	10		
5489	0	0	0	0	0	0	0	0	0	0	0	
5490(FL)	1	1	1	1	1	1	1	1	1	1	100	
5491	1	1	1	1	1	1	1	1	1	1	100	
5492	1	1	1	1	1	1	1	1	1	1	100	
5493	1	1	1	1	1	1	1	1	1	1	100	
5494	1	1	1	1	1	1	1	1	1	1	100	
5495	1	1	1	1	1	1	1	1	1	1	100	
5496	1	1	1	1	1	1	1	1	1	1	100	
5497	1	1	1	1	1	1	1	1	1	1	100	
5498	1	1	1	1	1	1	1	1	1	1	100	
5499	1	1	1	1	1	1	1	1	1	1	100	
5500	1	1	1	1	1	1	1	1	1	1	100	
5501	1	1	1	1	1	1	1	1	1	1	100	
5502	1	1	1	1	1	1	1	1	1	1	100	
5503	1	1	1	1	1	1	1	1	1	1	100	
5504	1	1	1	1	1	1	1	1	1	1	100	
5505	1	1	1	1	1	1	1	1	1	1	100	
5506	1	1	1	1	1	1	1	1	1	1	100	
5507	1	1	1	1	1	1	1	1	1	1	100	
5508	1	1	1	1	1	1	1	1	1	1	100	
5509	1	1	1	1	1	1	1	1	1	1	100	
5510	1	1	1	1	1	1	1	1	1	1	100	
5511	1	1	1	1	1	1	1	1	1	1	100	
5512	1	1	1	1	1	1	1	1	1	1	100	
5513	1	1	1	1	1	1	1	1	1	1	100	
5514	1	1	1	1	1	1	1	1	1	1	100	
5515	1	1	1	1	1	1	1	1	1	1	100	
5516	1	1	1	1	1	1	1	1	1	1	100	
5517	1	1	1	1	1	1	1	1	1	1	100	
5518	1	1	1	1	1	1	1	1	1	1	100	
5519	1	1	1	1	1	1	1	1	1	1	100	
5520	1	1	1	1	1	1	1	1	1	1	100	
5521	1	1	1	1	1	1	1	1	1	1	100	
5522	1	1	1	1	1	1	1	1	1	1	100	
5523	1	1	1	1	1	1	1	1	1	1	100	
5524	1	1	1	1	1	1	1	1	1	1	100	
5525	1	1	1	1	1	1	1	1	1	1	100	
5526	1	1	1	1	1	1	1	1	1	1	100	
5527	1	1	1	1	1	1	1	1	1	1	100	
5528	1	1	1	1	1	1	1	1	1	1	100	
5529	1	1	1	1	1	1	1	1	1	1	100	
5530	1	1	1	1	1	1	1	1	1	1	100	
5531	1	1	1	1	1	1	1	1	1	1	100	
5532	1	1	1	1	1	1	1	1	1	1	100	
5533	1	1	1	1	1	1	1	1	1	1	100	
5534	1	1	1	1	1	1	1	1	1	1	100	
5535	1	1	1	1	1	1	1	1	1	1	100	
5536	1	1	1	1	1	1	1	1	1	1	100	
5537	1	1	1	1	1	1	1	1	1	1	100	
5538	1	1	1	1	1	1	1	1	1	1	100	
5539	1	1	1	1	1	1	1	1	1	1	100	
5540	1	1	1	1	1	1	1	1	1	1	100	
5541	1	1	1	1	1	1	1	1	1	1	100	
5542	1	1	1	1	1	1	1	1	1	1	100	
5543	1	1	1	1	1	1	1	1	1	1	100	
5544	1	1	1	1	1	1	1	1	1	1	100	
5545	1	1	1	1	1	1	1	1	1	1	100	
5546	1	1	1	1	1	1	1	1	1	1	100	
5547	1	1	1	1	1	1	1	1	1	1	100	
5548	1	1	1	1	1	1	1	1	1	1	100	
5549	1	1	1	1	1	1	1	1	1	1	100	
5550	1	1	1	1	1	1	1	1	1	1	100	

Test Mode		IEEE 802.11ac (VHT80)									
5551	1	1	1	1	1	1	1	1	1	1	100
5552	1	1	1	1	1	1	1	1	1	1	100
5553	1	1	1	1	1	1	1	1	1	1	100
5554	1	1	1	1	1	1	1	1	1	1	100
5555	1	1	1	1	1	1	1	1	1	1	100
5556	1	1	1	1	1	1	1	1	1	1	100
5557	1	1	1	1	1	1	1	1	1	1	100
5558	1	1	1	1	1	1	1	1	1	1	100
5559	1	1	1	1	1	1	1	1	1	1	100
5560	1	1	1	1	1	1	1	1	1	1	100
5561	1	1	1	1	1	1	1	1	1	1	100
5562	1	1	1	1	1	1	1	1	1	1	100
5563	1	1	1	1	1	1	1	1	1	1	100
5564	1	1	1	1	1	1	1	1	1	1	100
5565	1	1	1	1	1	1	1	1	1	1	100
5566	1	1	1	1	1	1	1	1	1	1	100
5567	1	1	1	1	1	1	1	1	1	1	100
5568	1	1	1	1	1	1	1	1	1	1	100
5569	1	1	1	1	1	1	1	1	1	1	100
5570(FH)	1	1	1	1	1	1	1	1	1	1	100
5571	0	0	0	0	0	0	0	0	0	0	0

7.7 CHANNEL AVAILABILITY CHECK TIME

For UII-2A

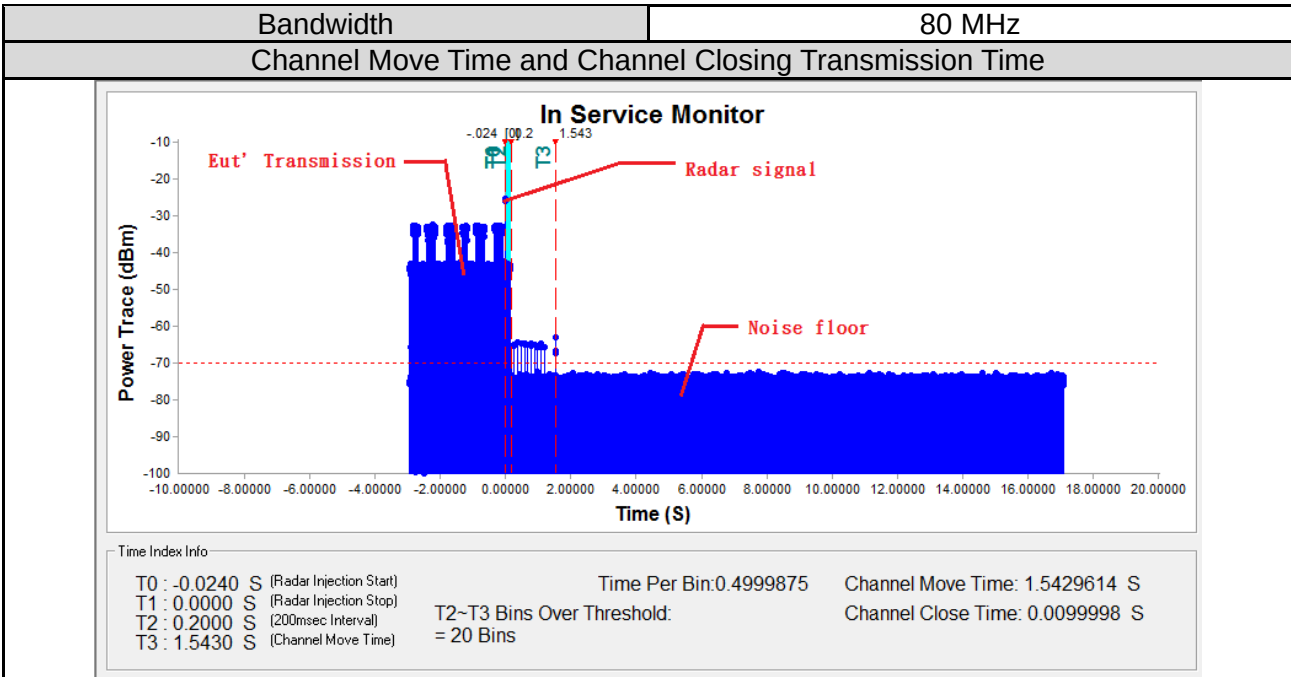
Bandwidth	80 MHz
Initial Channel Availability Check Time	Radar Burst at the Beginning of the Channel Availability Check Time
The Channel Availability Check time is equal to 60 seconds.	T0: The end of power-up sequence. T1: T0 + 6 seconds. As visual indicated, a single Radar Burst was commenced within the 6 second window (T0 to T1) and successful detected. During the measurement window no UUT transmissions occurred.
Radar Burst at the End of the Channel Availability Check Time	
T0: The end of power-up sequence. T2: T0 + 54 seconds. T3: T2 + 6 seconds. As visual indicated, a single Radar Burst was commenced within the 6 second window (T2 to T3) and successful detected. During the measurement window no UUT transmissions occurred.	

For UII-2C

Bandwidth	80 MHz
Initial Channel Availability Check Time	Radar Burst at the Beginning of the Channel Availability Check Time
The Channel Availability Check time is equal to 60 seconds.	T0: The end of power-up sequence. T1: T0 + 6 seconds. As visual indicated, a single Radar Burst was commenced within the 6 second window (T0 to T1) and successful detected. During the measurement window no UUT transmissions occurred.
Radar Burst at the End of the Channel Availability Check Time	
T0: The end of power-up sequence. T2: T0 + 54 seconds. T3: T2 + 6 seconds. As visual indicated, a single Radar Burst was commenced within the 6 second window (T2 to T3) and successful detected. During the measurement window no UUT transmissions occurred.	

7.8 IN-SERVICE MONITORING FOR CHANNEL MOVE TIME, CHANNEL CLOSING TRANSMISSION TIME AND NON-OCCUPANCY PERIOD

For UII-2A



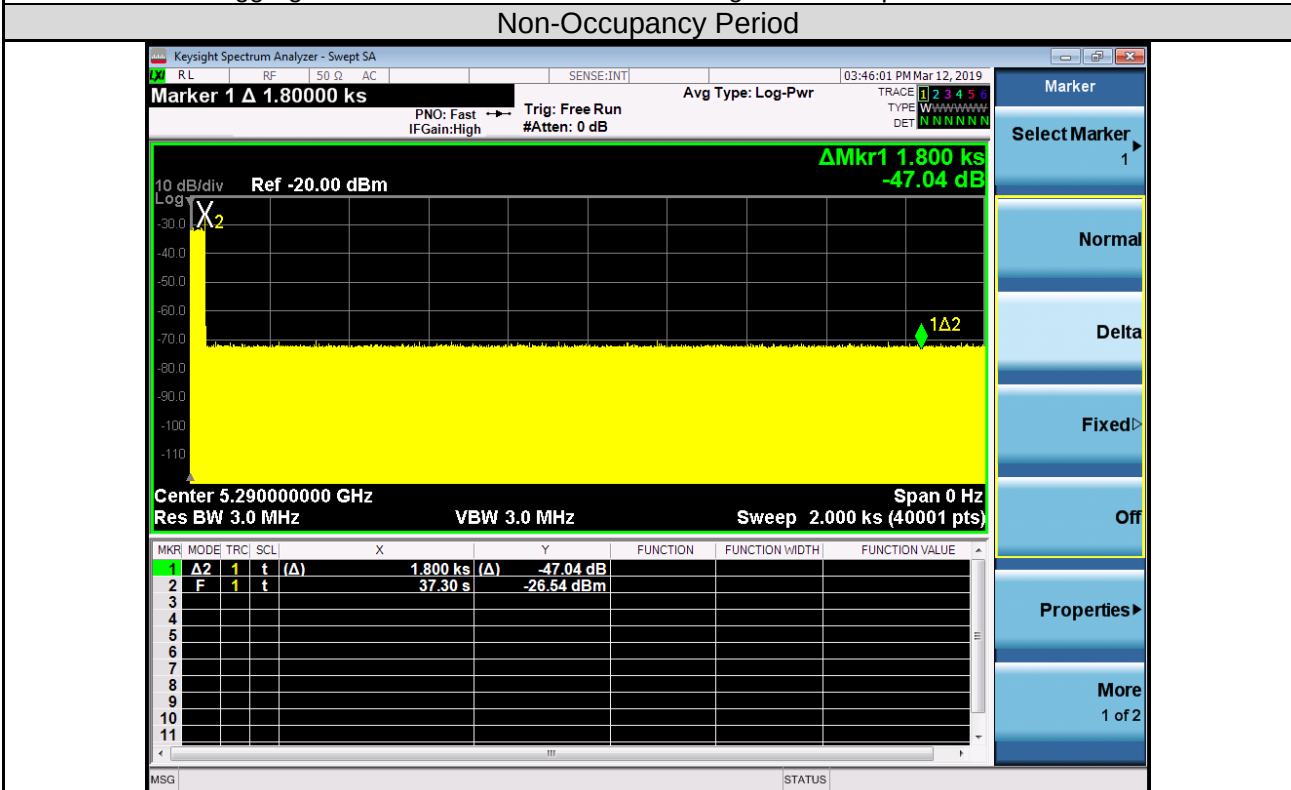
T1: The end of the radar Burst.

T2: The 200 milliseconds limit on data transmission from T1.

T3: The end of the Channel Move Time.

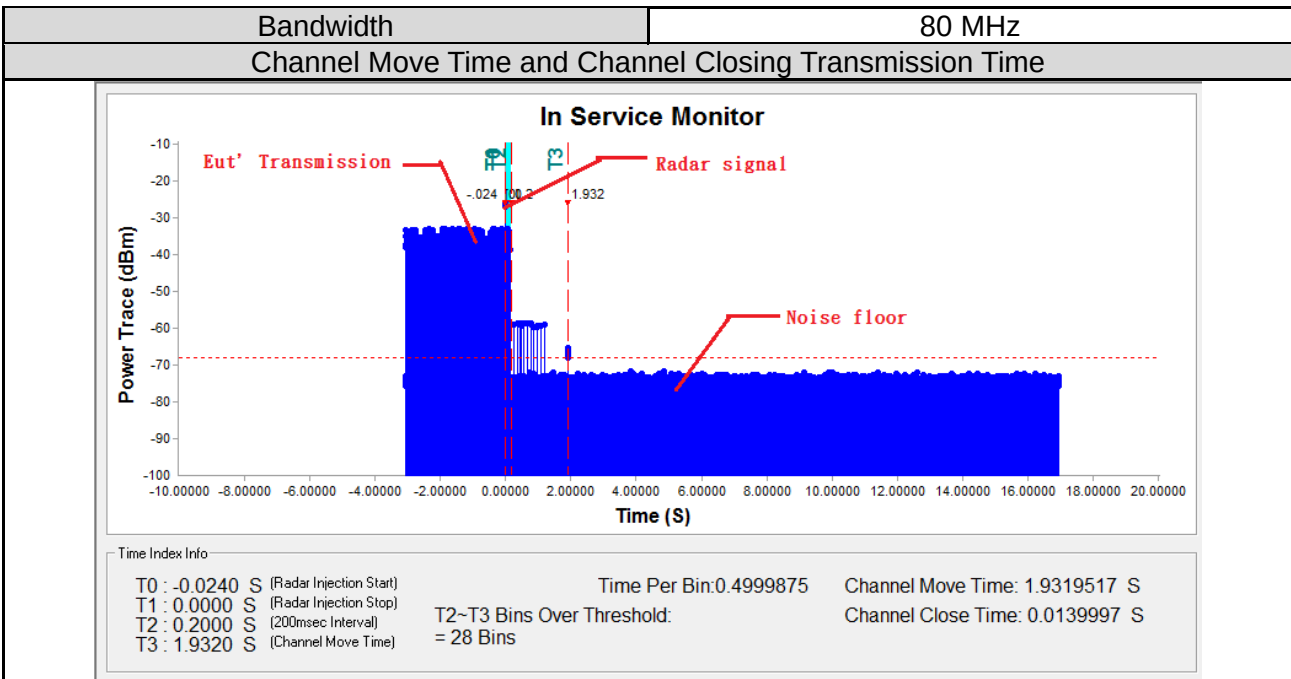
The Channel Move Time is 1.5429614 seconds < 10 seconds.

The Channel Closing Transmission Time is 0.4999875 milliseconds * 20 = 9.9998 milliseconds < 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period.



The UUT has vacated the channel and does not transmit for 30 minutes.

For UII-2C



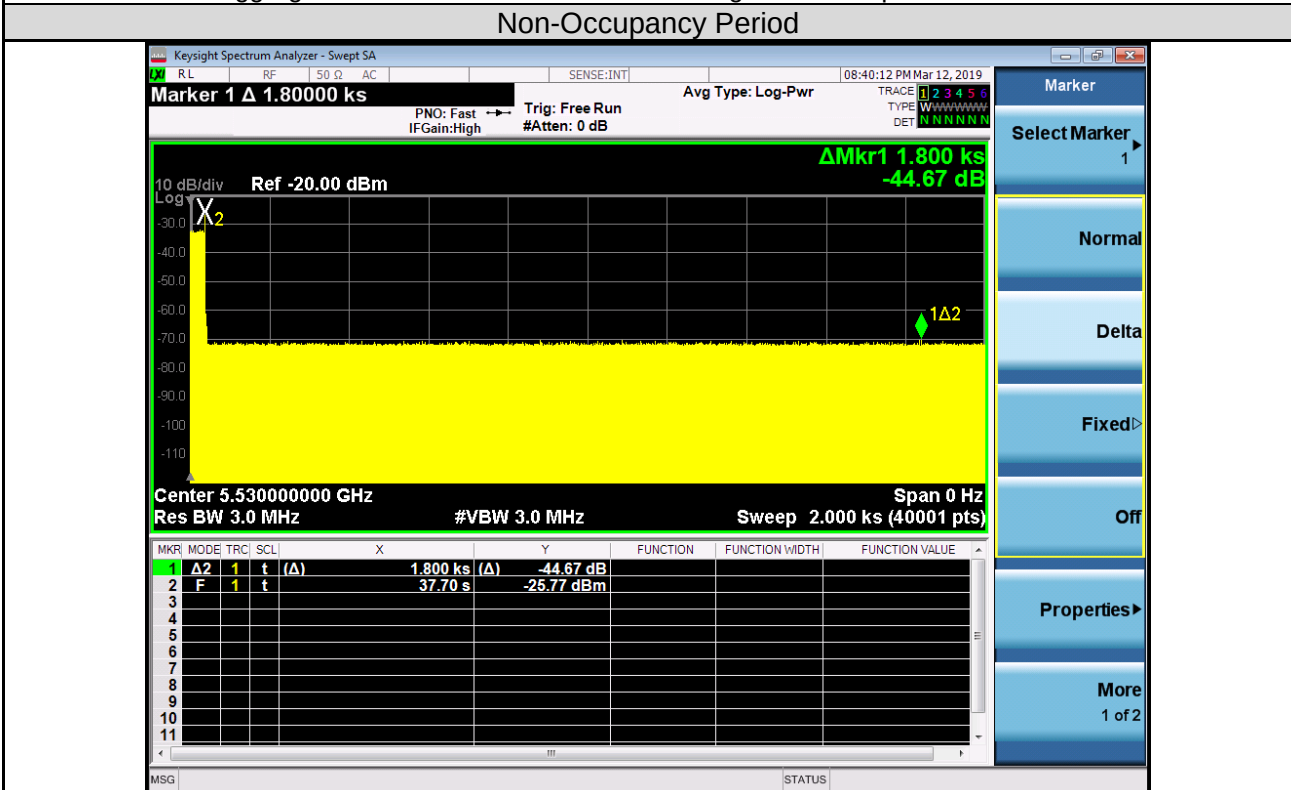
T1: The end of the radar Burst.

T2: The 200 milliseconds limit on data transmission from T1.

T3: The end of the Channel Move Time.

The Channel Move Time is 1.9319517 seconds < 10 seconds.

The Channel Closing Transmission Time is 0.4999875 milliseconds * 28 = 13.9997 milliseconds < 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period.



The UUT has vacated the channel and does not transmit for 30 minutes.

7.9 SUCCESSFUL DETECTION RATE

For UII-2A

Test Mode	IEEE 802.11ac (VHT80)		Test Frequency (MHz)	5290
Test Period	During CAC (Channel Availability Check)			
Radar signal	Pass times	Fail times	Probability	Minimum Percentage of Successful Detection
Short Pulse Radar Test Waveforms				
Type1	30	0	100%	60%
Type2	29	1	97%	60%
Type3	29	1	97%	60%
Type4	28	2	93%	60%
Aggregate (Radar Types 1-4)	116	4	97%	80%
Long Pulse Radar Test Waveform				
Type5	29	1	97%	80%
Frequency Hopping Radar Test Waveform				
Type6	30	0	100%	70%

Test Period	CMT (Channel Move Time)			
Radar signal	Pass times	Fail times	Probability	Minimum Percentage of Successful Detection
Short Pulse Radar Test Waveforms				
Type1	29	1	97%	60%
Type2	28	2	93%	60%
Type3	26	4	87%	60%
Type4	24	6	80%	60%
Aggregate (Radar Types 1-4)	107	13	89%	80%
Long Pulse Radar Test Waveform				
Type5	27	3	90%	80%
Frequency Hopping Radar Test Waveform				
Type6	30	0	100%	70%

For UII-2C

Test Mode	IEEE 802.11ac (VHT80)		Test Frequency (MHz)	5530
Test Period	During CAC (Channel Availability Check)			
Radar signal	Pass times	Fail times	Probability	Minimum Percentage of Successful Detection
Short Pulse Radar Test Waveforms				
Type1	30	0	100%	60%
Type2	30	0	100%	60%
Type3	29	1	97%	60%
Type4	29	1	97%	60%
Aggregate (Radar Types 1-4)	118	2	98%	80%
Long Pulse Radar Test Waveform				
Type5	29	1	97%	80%
Frequency Hopping Radar Test Waveform				
Type6	29	1	97%	70%

Test Period	CMT (Channel Move Time)			
Radar signal	Pass times	Fail times	Probability	Minimum Percentage of Successful Detection
Short Pulse Radar Test Waveforms				
Type1	29	1	97%	60%
Type2	29	1	97%	60%
Type3	30	0	100%	60%
Type4	28	2	93%	60%
Aggregate (Radar Types 1-4)	116	4	97%	80%
Long Pulse Radar Test Waveform				
Type5	28	2	93%	80%
Frequency Hopping Radar Test Waveform				
Type6	30	0	100%	70%

7.10 STATISTICAL PERFORMANCE CHECK

For UII-2A

Radar Type 0

Trial Id	Radar Type	Pulse Width (μ s)	PRI (μ s)	Number of Pulses	Waveform Length (μ s)
0	Type 0	1	1428	18	25704
1	Type 0	1	1428	18	25704
2	Type 0	1	1428	18	25704
3	Type 0	1	1428	18	25704
4	Type 0	1	1428	18	25704
5	Type 0	1	1428	18	25704
6	Type 0	1	1428	18	25704
7	Type 0	1	1428	18	25704
8	Type 0	1	1428	18	25704
9	Type 0	1	1428	18	25704
10	Type 0	1	1428	18	25704
11	Type 0	1	1428	18	25704
12	Type 0	1	1428	18	25704
13	Type 0	1	1428	18	25704
14	Type 0	1	1428	18	25704
15	Type 0	1	1428	18	25704
16	Type 0	1	1428	18	25704
17	Type 0	1	1428	18	25704
18	Type 0	1	1428	18	25704
19	Type 0	1	1428	18	25704
20	Type 0	1	1428	18	25704
21	Type 0	1	1428	18	25704
22	Type 0	1	1428	18	25704
23	Type 0	1	1428	18	25704
24	Type 0	1	1428	18	25704
25	Type 0	1	1428	18	25704
26	Type 0	1	1428	18	25704
27	Type 0	1	1428	18	25704
28	Type 0	1	1428	18	25704
29	Type 0	1	1428	18	25704

Radar Type 1

Trial Id	Radar Type	Pulse Width (μs)	PRI (μs)	Number of Pulses	Waveform Length (μs)
0	Type 1	1	938	57	53466
1	Type 1	1	698	76	53048
2	Type 1	1	618	86	53148
3	Type 1	1	538	99	53262
4	Type 1	1	878	61	53558
5	Type 1	1	3066	18	55188
6	Type 1	1	638	83	52954
7	Type 1	1	918	58	53244
8	Type 1	1	838	63	52794
9	Type 1	1	858	62	53196
10	Type 1	1	798	67	53466
11	Type 1	1	718	74	53132
12	Type 1	1	578	92	53176
13	Type 1	1	598	89	53222
14	Type 1	1	558	95	53010
15	Type 1	1	2536	21	53256
16	Type 1	1	966	55	53130
17	Type 1	1	827	64	52928
18	Type 1	1	2501	22	55022
19	Type 1	1	2595	21	54495
20	Type 1	1	1114	48	53472
21	Type 1	1	1302	41	53382
22	Type 1	1	3045	18	54810
23	Type 1	1	1624	33	53592
24	Type 1	1	2878	19	54682
25	Type 1	1	1027	52	53404
26	Type 1	1	2485	22	54670
27	Type 1	1	1600	33	52800
28	Type 1	1	1172	46	53912
29	Type 1	1	1177	45	52965

Radar Type 2

Trial Id	Radar Type	Pulse Width (μs)	PRI (μs)	Number of Pulses	Waveform Length (μs)
0	Type 2	3.2	179	26	4654
1	Type 2	1.1	207	23	4761
2	Type 2	2.1	230	24	5520
3	Type 2	4.8	200	29	5800
4	Type 2	3.9	214	28	5992
5	Type 2	2.9	222	26	5772
6	Type 2	3.2	204	26	5304
7	Type 2	2.5	192	25	4800
8	Type 2	3.1	164	26	4264
9	Type 2	1.2	156	23	3588
10	Type 2	3.9	210	27	5670
11	Type 2	4.6	201	29	5829
12	Type 2	3.2	162	26	4212
13	Type 2	2.2	197	25	4925
14	Type 2	4.5	163	29	4727
15	Type 2	3	203	26	5278
16	Type 2	5	168	29	4872
17	Type 2	2.4	217	25	5425
18	Type 2	2.9	191	26	4966
19	Type 2	2.3	166	25	4150
20	Type 2	3.7	150	27	4050
21	Type 2	2.2	176	25	4400
22	Type 2	4.9	195	29	5655
23	Type 2	2.9	202	26	5252
24	Type 2	2.5	178	25	4450
25	Type 2	1.1	206	23	4738
26	Type 2	3.8	155	27	4185
27	Type 2	4.7	157	29	4553
28	Type 2	2.4	224	25	5600
29	Type 2	4.2	159	28	4452

Radar Type 3

Trial Id	Radar Type	Pulse Width (μs)	PRI (μs)	Number of Pulses	Waveform Length (μs)
0	Type 3	8.2	355	17	6035
1	Type 3	6.1	487	16	7792
2	Type 3	7.1	344	16	5504
3	Type 3	9.8	288	18	5184
4	Type 3	8.9	230	18	4140
5	Type 3	7.9	432	17	7344
6	Type 3	8.2	207	17	3519
7	Type 3	7.5	443	17	7531
8	Type 3	8.1	439	17	7463
9	Type 3	6.2	223	16	3568
10	Type 3	8.9	208	18	3744
11	Type 3	9.6	463	18	8334
12	Type 3	8.2	441	17	7497
13	Type 3	7.2	323	16	5168
14	Type 3	9.5	297	18	5346
15	Type 3	8	412	17	7004
16	Type 3	10	324	18	5832
17	Type 3	7.4	271	17	4607
18	Type 3	7.9	349	17	5933
19	Type 3	7.3	409	16	6544
20	Type 3	8.7	373	18	6714
21	Type 3	7.2	254	16	4064
22	Type 3	9.9	274	18	4932
23	Type 3	7.9	278	17	4726
24	Type 3	7.5	317	17	5389
25	Type 3	6.1	260	16	4160
26	Type 3	8.8	211	18	3798
27	Type 3	9.7	272	18	4896
28	Type 3	7.4	264	17	4488
29	Type 3	9.2	284	18	5112

Radar Type 4

Trial Id	Radar Type	Pulse Width (μs)	PRI (μs)	Number of Pulses	Waveform Length (μs)
0	Type 4	16	355	14	4970
1	Type 4	11.3	487	12	5844
2	Type 4	13.5	344	13	4472
3	Type 4	19.4	288	16	4608
4	Type 4	17.5	230	15	3450
5	Type 4	15.3	432	14	6048
6	Type 4	15.9	207	14	2898
7	Type 4	14.3	443	13	5759
8	Type 4	15.8	439	14	6146
9	Type 4	11.5	223	12	2676
10	Type 4	17.4	208	15	3120
11	Type 4	19	463	16	7408
12	Type 4	16	441	14	6174
13	Type 4	13.8	323	13	4199
14	Type 4	18.9	297	16	4752
15	Type 4	15.5	412	14	5768
16	Type 4	19.9	324	16	5184
17	Type 4	14.1	271	13	3523
18	Type 4	15.2	349	14	4886
19	Type 4	13.8	409	13	5317
20	Type 4	17.1	373	15	5595
21	Type 4	13.8	254	13	3302
22	Type 4	19.8	274	16	4384
23	Type 4	15.3	278	14	3892
24	Type 4	14.5	317	13	4121
25	Type 4	11.3	260	12	3120
26	Type 4	17.3	211	15	3165
27	Type 4	19.2	272	16	4352
28	Type 4	14.2	264	13	3432
29	Type 4	18.2	284	15	4260

Radar Type 5

Trial Number: 0						
Number of Bursts in Trial: 15						
Chrip Center Frequency: 5290Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	2	77.8	13	1665	1477	-
1	1	51.9	13	1074	-	-
2	1	63.8	13	1584	-	-
3	3	96.6	13	1682	1786	1843
4	3	85.9	13	1795	1215	1729
5	2	73.7	13	1198	1549	-
6	2	77.2	13	1837	1819	-
7	2	68.4	13	1587	1114	-
8	2	76.7	13	2000	1155	-
9	1	53.2	13	1147	-	-
10	3	85.7	13	1433	1695	1394
11	3	94.3	13	1670	1426	1935
12	2	77.6	13	1294	1671	-
13	1	65.7	13	1512	-	-
14	3	93.5	13	1444	1130	1468
15						
16						
17						
18						
19						
20						

Trial Number: 1						
Number of Bursts in Trial: 8						
Chrip Center Frequency: 5290 Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	2	75	5	1880	1527	-
1	3	99.4	5	1401	1262	1257
2	2	67.4	5	1531	1403	-
3	2	73.6	5	1449	1041	-
4	1	65.9	5	1432	-	-
5	3	83.8	5	1356	1292	1419
6	1	65.5	5	1543	-	-
7	3	98.6	5	1548	1796	1728
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

Trial Number: 2						
Number of Bursts in Trial: 11						
Chrip Center Frequency: 5290Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	2	73.8	9	1806	1538	-
1	2	69.5	9	1117	1649	-
2	1	51.9	9	1651	-	-
3	3	84.6	9	1976	1032	1271
4	3	95.4	9	1060	1903	1388
5	2	68	9	1368	1351	-
6	3	89.6	9	1338	1514	1573
7	2	81.9	9	1022	1689	-
8	3	88.3	9	1810	1330	1838
9	1	53.7	9	1597	-	-
10	3	91.3	9	1961	1106	1001
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

Trial Number: 3						
Number of Bursts in Trial: 20						
Chrip Center Frequency: 5290Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	2	68.1	19	1339	1355	-
1	1	58.7	19	1251	-	-
2	2	75.3	19	1136	1640	-
3	1	56.4	19	1753	-	-
4	3	99.7	19	1196	1708	1159
5	1	57.7	19	1013	-	-
6	1	59.5	19	1072	-	-
7	2	80	19	1482	1369	-
8	2	82	19	1993	1197	-
9	2	82.8	19	1883	1005	-
10	3	88	19	1061	1928	1101
11	3	93.2	19	1207	1907	1223
12	2	70.4	19	1526	1360	-
13	3	95.3	19	1171	1955	1775
14	2	81.9	19	1690	1545	-
15	3	98.5	19	1975	1169	1062
16	1	65	19	1767	-	-
17	3	85.4	19	1011	1637	1425
18	3	91.6	19	1878	1445	1325
19	2	67.3	19	1091	1218	-
20						

Trial Number: 4

Number of Bursts in Trial: 17

Chirp Center Frequency: 5290Mhz

Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	2	67.9	16	1320	1133	-
1	1	62.3	16	1957	-	-
2	1	53.3	16	1592	-	-
3	3	90	16	1900	1153	1346
4	2	77.1	16	1166	1646	-
5	3	83.9	16	1278	1232	1459
6	3	89.1	16	1240	1384	1939
7	2	81.8	16	1833	1676	-
8	1	50.3	16	1075	-	-
9	3	87.1	16	1116	1996	1756
10	2	71.3	16	1225	1815	-
11	3	97.5	16	1884	1465	1132
12	3	90.6	16	1561	1040	1354
13	3	86.3	16	1596	1183	1792
14	3	97.6	16	1365	1073	1361
15	3	84.7	16	1021	1718	1854
16	3	99.7	16	1150	1244	1988
17						
18						
19						
20						

Trial Number: 5						
Number of Bursts in Trial: 14						
Chrip Center Frequency: 5290Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	3	92.9	12	1085	1564	1407
1	2	67.7	12	1744	1747	-
2	1	65.8	12	1092	-	-
3	1	56.3	12	1851	-	-
4	1	53.7	12	1727	-	-
5	3	83.5	12	1679	1930	1025
6	1	65.8	12	1519	-	-
7	3	85.9	12	1134	1034	1808
8	2	76.3	12	1606	1926	-
9	2	81.5	12	1891	1714	-
10	3	89.4	12	1310	1594	1827
11	1	63.4	12	1568	-	-
12	2	69.6	12	1307	1925	-
13	2	74.5	12	1264	1846	-
14						
15						
16						
17						
18						
19						
20						

Trial Number: 6						
Number of Bursts in Trial: 15						
Chrip Center Frequency: 5290Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	3	96.6	13	1182	1609	1581
1	3	96.7	13	1829	1799	1154
2	3	86.5	13	1923	1396	1865
3	2	73.3	13	1908	1318	-
4	1	55.8	13	1688	-	-
5	1	55.4	13	1145	-	-
6	3	85.3	13	1336	1504	1820
7	2	79.4	13	1344	1893	-
8	1	65.7	13	1476	-	-
9	2	68.6	13	1008	1028	-
10	2	77.7	13	1972	1835	-
11	2	79.6	13	1882	1331	-
12	3	94.9	13	1830	1070	1349
13	1	61.4	13	1451	-	-
14	3	90.6	13	1233	1562	1887
15						
16						
17						
18						
19						
20						

Trial Number: 7						
Number of Bursts in Trial: 12						
Chrip Center Frequency: 5290Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	1	52.6	10	1210	-	-
1	3	84.1	10	1314	1725	1529
2	3	97.7	10	1139	1868	1805
3	3	97.3	10	1341	1446	1755
4	3	98.8	10	1544	1386	1302
5	2	72.2	10	1771	1184	-
6	2	67.6	10	1175	1027	-
7	2	75.7	10	1026	1871	-
8	1	60.9	10	1798	-	-
9	1	64.2	10	1138	-	-
10	2	78.8	10	1784	1604	-
11	3	87.5	10	1511	1712	1683
12						
13						
14						
15						
16						
17						
18						
19						
20						

Trial Number: 8						
Number of Bursts in Trial: 14						
Chrip Center Frequency: 5290Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	1	54.1	13	1415	-	-
1	1	50.7	13	1221	-	-
2	1	52.3	13	1974	-	-
3	3	99.8	13	1558	1696	1949
4	2	68.4	13	1014	1099	-
5	2	80.8	13	1736	1505	-
6	1	62.5	13	1778	-	-
7	2	74.8	13	1149	1204	-
8	1	50.8	13	1049	-	-
9	1	54	13	1417	-	-
10	1	63	13	1730	-	-
11	3	91.8	13	1143	1270	1347
12	2	79.3	13	1274	1992	-
13	1	64.3	13	1937	-	-
14						
15						
16						
17						
18						
19						
20						

Trial Number: 9						
Number of Bursts in Trial: 8						
Chrip Center Frequency: 5290Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	1	63.4	6	1043	-	-
1	1	52	6	1863	-	-
2	3	97.2	6	1973	1605	1583
3	2	78.7	6	1466	1743	-
4	2	74.2	6	1280	1219	-
5	3	88.7	6	1293	1934	1273
6	1	54.3	6	1991	-	-
7	3	95.4	6	1580	1555	1791
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

Trial Number: 10						
Number of Bursts in Trial: 17						
Chrip Center Frequency: 5256.4Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	2	73.7	16	1208	1497	-
1	3	97.4	16	1942	1754	1613
2	3	91.7	16	1999	1702	1462
3	1	66.2	16	1393	-	-
4	2	70.8	16	1968	1821	-
5	1	52.3	16	1740	-	-
6	2	78.9	16	1308	1984	-
7	2	70.9	16	1050	1358	-
8	2	75.6	16	1437	1430	-
9	1	59.1	16	1697	-	-
10	2	77	16	1397	1304	-
11	2	67.9	16	1803	1083	-
12	2	81.2	16	1720	1932	-
13	2	78.7	16	1247	1121	-
14	1	63.3	16	1634	-	-
15	2	68.9	16	1849	1423	-
16	1	59.3	16	1093	-	-
17						
18						
19						
20						

Trial Number: 11						
Number of Bursts in Trial: 19						
Chrip Center Frequency: 5257.6Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	3	98.9	19	1381	1680	1488
1	2	82.3	19	1716	1855	-
2	3	86.7	19	1211	1400	1919
3	3	89.7	19	1861	1068	1282
4	3	98.6	19	1507	1194	1461
5	2	71.1	19	1921	1789	-
6	1	55.9	19	1947	-	-
7	2	67.9	19	1350	1372	-
8	3	84.4	19	1203	1107	1443
9	1	58.8	19	1715	-	-
10	1	65.6	19	1017	-	-
11	2	78.5	19	1911	1704	-
12	2	82.3	19	1845	1686	-
13	3	90.1	19	1938	1071	1266
14	3	90.2	19	1989	1089	1950
15	2	83.1	19	1943	1406	-
16	1	58.8	19	1742	-	-
17	2	77	19	1187	1657	-
18	1	55	19	1012	-	-
19						
20						

Trial Number: 12						
Number of Bursts in Trial: 15						
Chrip Center Frequency: 5255.2Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	1	58.1	13	1929	-	-
1	1	52.1	13	1910	-	-
2	1	59.9	13	1971	-	-
3	1	60.2	13	1812	-	-
4	3	95.9	13	1399	1906	1608
5	2	79.9	13	1626	1859	-
6	2	78.5	13	1238	1917	-
7	1	53.8	13	1763	-	-
8	1	64.7	13	1800	-	-
9	1	61.4	13	1390	-	-
10	2	83.2	13	1692	1858	-
11	3	84.7	13	1533	1677	1638
12	3	88.7	13	1703	1528	1058
13	2	78.3	13	1258	1951	-
14	2	69.3	13	1731	1717	-
15						
16						
17						
18						
19						
20						

Trial Number: 13						
Number of Bursts in Trial: 12						
Chrip Center Frequency: 5254Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	2	75.3	10	1994	1612	-
1	1	56.3	10	1456	-	-
2	2	67.7	10	1617	1185	-
3	1	55.6	10	1337	-	-
4	2	75.2	10	1421	1267	-
5	2	76.3	10	1359	1305	-
6	3	85.7	10	1547	1362	1924
7	3	98.4	10	1873	1550	1249
8	3	86.4	10	1779	1439	1046
9	3	93.6	10	1059	1031	1452
10	1	63.3	10	1328	-	-
11	3	92.4	10	1412	1673	1322
12						
13						
14						
15						
16						
17						
18						
19						
20						

Trial Number: 14						
Number of Bursts in Trial: 19						
Chrip Center Frequency: 5257.2Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	3	93.3	18	1983	1912	1535
1	2	69.1	18	1102	1794	-
2	3	86.9	18	1044	1152	1148
3	3	84.9	18	1894	1948	1118
4	2	72.3	18	1094	1916	-
5	1	51.7	18	1447	-	-
6	1	58.3	18	1429	-	-
7	1	60.8	18	1979	-	-
8	1	57.1	18	1641	-	-
9	3	88.9	18	1886	1964	1489
10	2	72	18	1909	1297	-
11	3	90.9	18	1261	1566	1370
12	1	59.8	18	1552	-	-
13	2	70	18	1759	1291	-
14	2	67.2	18	1625	1881	-
15	3	91.2	18	1382	1832	1661
16	1	56.5	18	1483	-	-
17	1	51.2	18	1237	-	-
18	2	74.1	18	1471	1245	-
19						
20						

Trial Number: 15						
Number of Bursts in Trial: 14						
Chrip Center Frequency:5254.8Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	2	76.9	12	1110	1140	-
1	1	50.2	12	1316	-	-
2	1	62.9	12	1520	-	-
3	1	64.7	12	1902	-	-
4	3	83.8	12	1410	1097	1621
5	1	65.4	12	1944	-	-
6	1	53.2	12	1024	-	-
7	1	51.7	12	1603	-	-
8	2	78.7	12	1804	1168	-
9	2	72.4	12	1030	1343	-
10	1	53.8	12	1327	-	-
11	2	73.6	12	1524	1553	-
12	2	66.7	12	1722	1122	-
13	2	82.5	12	1404	1019	-
14						
15						
16						
17						
18						
19						
20						

Trial Number: 16

Number of Bursts in Trial: 20

Chirp Center Frequency: 5258Mhz

Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	3	87.6	20	1565	1055	1840
1	3	85.2	20	1735	1541	1408
2	3	84.8	20	1534	1889	1463
3	2	77.9	20	1749	1460	-
4	2	76.5	20	1518	1485	-
5	1	60.9	20	1540	-	-
6	2	83	20	1080	1010	-
7	2	80.4	20	1824	1752	-
8	2	67.5	20	1764	1181	-
9	1	62.1	20	1495	-	-
10	3	86.4	20	1773	1966	1263
11	3	84.3	20	1593	1188	1788
12	2	76.9	20	1226	1537	-
13	3	95.8	20	1192	1298	1844
14	1	55.2	20	1644	-	-
15	1	59	20	1402	-	-
16	3	94.5	20	1296	1700	1283
17	3	91.9	20	1970	1978	1165
18	3	85.2	20	1732	1551	1189
19	2	69.5	20	1038	1224	-
20						

Trial Number: 17						
Number of Bursts in Trial: 12						
Chrip Center Frequency: 5254Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	3	86.4	10	1259	1918	1455
1	3	92.2	10	1598	1719	1895
2	2	80.4	10	1816	1899	-
3	1	54.3	10	1335	-	-
4	1	53.1	10	1303	-	-
5	2	69.4	10	1503	1546	-
6	2	69.1	10	1279	1639	-
7	3	100	10	1375	1438	1595
8	2	79.6	10	1239	1705	-
9	3	88.4	10	1374	1579	1623
10	1	53.3	10	1016	-	-
11	1	65.3	10	1709	-	-
12						
13						
14						
15						
16						
17						
18						
19						
20						

Trial Number: 18						
Number of Bursts in Trial: 14						
Chirp Center Frequency: 5254.8Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	1	55.3	12	1920	-	-
1	1	58.3	12	1797	-	-
2	2	72.3	12	1610	1039	-
3	3	84.8	12	1131	1761	1721
4	2	82.5	12	1875	1431	-
5	1	63.3	12	1095	-	-
6	2	80	12	1119	1913	-
7	3	90.3	12	1660	1853	1123
8	3	91.1	12	1539	1783	1172
9	3	96.6	12	1525	1036	1385
10	2	82.7	12	1710	1990	-
11	1	50.7	12	1234	-	-
12	2	78.4	12	1047	1109	-
13	3	99.5	12	1299	1965	1869
14						
15						
16						
17						
18						
19						
20						

Trial Number: 19						
Number of Bursts in Trial: 12						
Chrip Center Frequency: 5254Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	3	88.6	10	1501	1067	1927
1	1	57.4	10	1723	-	-
2	3	96.6	10	1086	1658	1324
3	2	69.7	10	1751	1945	-
4	2	77.9	10	1642	1317	-
5	1	62	10	1866	-	-
6	3	88.4	10	1997	1077	1366
7	3	97.3	10	1790	1896	1367
8	3	96.2	10	1391	1787	1672
9	3	95.4	10	1020	1892	1414
10	1	54.8	10	1084	-	-
11	2	80.4	10	1850	1436	-
12						
13						
14						
15						
16						
17						
18						
19						
20						

Trial Number: 20						
Number of Bursts in Trial: 16						
Chrip Center Frequency: 5324Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	2	74.7	15	1619	1611	-
1	1	57.1	15	1560	-	-
2	3	91.9	15	1392	1475	1276
3	2	83.1	15	1809	1772	-
4	1	50.7	15	1003	-	-
5	2	79.2	15	1574	1600	-
6	1	58.7	15	1186	-	-
7	2	71	15	1521	1567	-
8	2	79	15	1777	1960	-
9	2	68.5	15	1284	1428	-
10	2	73.5	15	1904	1352	-
11	2	70.5	15	1864	1115	-
12	2	76.6	15	1045	1300	-
13	2	81.2	15	1160	1675	-
14	1	61.8	15	1277	-	-
15	3	94.9	15	1450	1206	1860
16						
17						
18						
19						
20						

Trial Number: 21						
Number of Bursts in Trial: 12						
Chrip Center Frequency:5326.4Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	2	78.5	9	1653	1698	-
1	3	89.8	9	1174	1962	1167
2	1	59.4	9	1982	-	-
3	2	79.6	9	1633	1890	-
4	2	76	9	1112	1811	-
5	1	53.6	9	1144	-	-
6	2	80.9	9	1220	1053	-
7	1	61.6	9	1724	-	-
8	1	53.4	9	1901	-	-
9	1	59.9	9	1379	-	-
10	1	60.4	9	1453	-	-
11	3	91.4	9	1768	1726	1227
12						
13						
14						
15						
16						
17						
18						
19						
20						

Trial Number: 22						
Number of Bursts in Trial: 20						
Chrip Center Frequency: 5322Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	2	77	20	1191	1363	-
1	1	58.1	20	1248	-	-
2	1	62.1	20	1836	-	-
3	2	76.9	20	1334	1236	-
4	2	80	20	1914	1852	-
5	1	52	20	1701	-	-
6	3	88.6	20	1693	1995	1905
7	2	72.9	20	1922	1387	-
8	3	98.5	20	1839	1746	1389
9	1	57.9	20	1193	-	-
10	3	95.9	20	1659	1870	1066
11	1	53.5	20	1162	-	-
12	3	92	20	1745	1654	1458
13	1	57.3	20	1834	-	-
14	2	70.5	20	1684	1586	-
15	2	70	20	1042	1664	-
16	3	84	20	1765	1630	1176
17	2	76.1	20	1557	1057	-
18	3	93.2	20	1985	1018	1340
19	3	96.8	20	1760	1614	1817
20						

Trial Number: 23						
Number of Bursts in Trial: 14						
Chrip Center Frequency: 5325.2Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	1	50.1	12	1841	-	-
1	3	93.5	12	1590	1081	1413
2	2	68.8	12	1707	1577	-
3	1	56.3	12	1056	-	-
4	3	86	12	1953	1108	1987
5	2	75.2	12	1572	1536	-
6	1	54.4	12	1517	-	-
7	2	71.1	12	1329	1243	-
8	2	76.2	12	1940	1770	-
9	2	80.2	12	1098	1209	-
10	2	79.7	12	1588	1214	-
11	3	90.9	12	1615	1862	1601
12	2	68.7	12	1377	1441	-
13	2	67.4	12	1872	1313	-
14						
15						
16						
17						
18						
19						
20						

Trial Number: 24						
Number of Bursts in Trial: 13						
Chirp Center Frequency: 5325.6Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	3	94	11	1643	1748	1941
1	2	70.8	11	1177	1201	-
2	1	56.3	11	1006	-	-
3	3	96.7	11	1230	1163	1332
4	3	90.6	11	1217	1582	1498
5	2	74.5	11	1569	1281	-
6	3	92.6	11	1065	1669	1222
7	3	89	11	1493	1135	1380
8	3	96.5	11	1607	1822	1602
9	2	70.5	11	1141	1178	-
10	3	94	11	1009	1629	1956
11	1	55.8	11	1290	-	-
12	3	87.7	11	1435	1963	1164
13						
14						
15						
16						
17						
18						
19						
20						

Trial Number: 25

Number of Bursts in Trial: 8

Chirp Center Frequency: 5328Mhz

Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	2	68.6	5	1306	1161	-
1	2	83.1	5	1420	1315	-
2	1	60.9	5	1687	-	-
3	2	77.7	5	1776	1158	-
4	2	77.4	5	1793	1510	-
5	2	66.8	5	1576	1323	-
6	1	63.7	5	1333	-	-
7	3	91.2	5	1409	1681	1275
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

Trial Number: 26						
Number of Bursts in Trial: 17						
Chrip Center Frequency:5323.6Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	3	83.6	16	1632	1195	1000
1	3	89.4	16	1173	1627	1656
2	1	55.8	16	1532	-	-
3	3	90.9	16	1981	1554	1998
4	1	54.7	16	1825	-	-
5	3	97.7	16	1734	1202	1250
6	2	67.5	16	1571	1434	-
7	3	96.7	16	1589	1469	1268
8	2	68.3	16	1750	1954	-
9	2	78.3	16	1591	1082	-
10	1	55	16	1427	-	-
11	3	84.9	16	1129	1936	1199
12	2	74.6	16	1959	1856	-
13	1	63.3	16	1885	-	-
14	3	99.8	16	1035	1515	1120
15	1	63.6	16	1647	-	-
16	3	87.3	16	1931	1051	1831
17						
18						
19						
20						

Trial Number: 27						
Number of Bursts in Trial: 19						
Chrip Center Frequency: 5322.4Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	3	85.6	19	1946	1078	1015
1	2	68.6	19	1029	1780	-
2	1	54.2	19	1111	-	-
3	1	61.2	19	1104	-	-
4	3	97.1	19	1157	1969	1100
5	3	98.3	19	1142	1699	1622
6	1	62.4	19	1655	-	-
7	2	80.2	19	1126	1769	-
8	3	87.5	19	1216	1448	1179
9	3	85.8	19	1847	1348	1472
10	3	88.1	19	1023	1124	1631
11	1	65.3	19	1848	-	-
12	1	52.5	19	1470	-	-
13	1	52.3	19	1312	-	-
14	2	74.1	19	1915	1200	-
15	1	54.9	19	1479	-	-
16	2	76.2	19	1376	1502	-
17	1	60.4	19	1758	-	-
18	2	81.5	19	1491	1103	-
19						
20						

Trial Number: 28						
Number of Bursts in Trial: 12						
Chrip Center Frequency: 5326Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	1	50.5	10	1857	-	-
1	1	55.7	10	1246	-	-
2	3	85.8	10	1774	1002	1967
3	2	76.9	10	1125	1474	-
4	2	75.1	10	1254	1052	-
5	3	92.3	10	1180	1486	1492
6	2	78.1	10	1301	1757	-
7	3	92.2	10	1898	1252	1713
8	3	89	10	1260	1706	1411
9	2	70.9	10	1578	1620	-
10	1	63.1	10	1782	-	-
11	1	55.3	10	1522	-	-
12						
13						
14						
15						
16						
17						
18						
19						
20						

Trial Number: 29						
Number of Bursts in Trial: 18						
Chirp Center Frequency: 5323.2Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	3	83.4	17	1454	1205	1801
1	3	97.3	17	1319	1826	1635
2	3	90.4	17	1079	1986	1674
3	3	91.8	17	1563	1151	1802
4	3	98.2	17	1876	1977	1766
5	1	59.5	17	1952	-	-
6	2	80	17	1253	1137	-
7	3	86.5	17	1054	1128	1828
8	3	91.1	17	1105	1599	1442
9	3	93.5	17	1867	1373	1087
10	1	60.7	17	1033	-	-
11	2	67.2	17	1288	1405	-
12	1	61.8	17	1585	-	-
13	2	79.4	17	1933	1667	-
14	2	81.4	17	1096	1464	-
15	1	65.7	17	1496	-	-
16	2	76	17	1733	1255	-
17	2	81	17	1326	1668	-
18						
19						
20						

Radar Type 6

Trial Id	Radar Type	Pulse Width (μs)	PRI (μs)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (ms)	Number of Pulses
0	Type 6	1	333.3	9	0.3333	300	16
1	Type 6	1	333.3	9	0.3333	300	10
2	Type 6	1	333.3	9	0.3333	300	14
3	Type 6	1	333.3	9	0.3333	300	19
4	Type 6	1	333.3	9	0.3333	300	15
5	Type 6	1	333.3	9	0.3333	300	18
6	Type 6	1	333.3	9	0.3333	300	14
7	Type 6	1	333.3	9	0.3333	300	14
8	Type 6	1	333.3	9	0.3333	300	21
9	Type 6	1	333.3	9	0.3333	300	15
10	Type 6	1	333.3	9	0.3333	300	16
11	Type 6	1	333.3	9	0.3333	300	24
12	Type 6	1	333.3	9	0.3333	300	13
13	Type 6	1	333.3	9	0.3333	300	20
14	Type 6	1	333.3	9	0.3333	300	17
15	Type 6	1	333.3	9	0.3333	300	20
16	Type 6	1	333.3	9	0.3333	300	16
17	Type 6	1	333.3	9	0.3333	300	18
18	Type 6	1	333.3	9	0.3333	300	14
19	Type 6	1	333.3	9	0.3333	300	16
20	Type 6	1	333.3	9	0.3333	300	20
21	Type 6	1	333.3	9	0.3333	300	19
22	Type 6	1	333.3	9	0.3333	300	23
23	Type 6	1	333.3	9	0.3333	300	17
24	Type 6	1	333.3	9	0.3333	300	16
25	Type 6	1	333.3	9	0.3333	300	13
26	Type 6	1	333.3	9	0.3333	300	13
27	Type 6	1	333.3	9	0.3333	300	18
28	Type 6	1	333.3	9	0.3333	300	19
29	Type 6	1	333.3	9	0.3333	300	20

For UII-2C
Radar Type 0

Trial Id	Radar Type	Pulse Width (μs)	PRI (μs)	Number of Pulses	Waveform Length (μs)
0	Type 0	1	1428	18	25704
1	Type 0	1	1428	18	25704
2	Type 0	1	1428	18	25704
3	Type 0	1	1428	18	25704
4	Type 0	1	1428	18	25704
5	Type 0	1	1428	18	25704
6	Type 0	1	1428	18	25704
7	Type 0	1	1428	18	25704
8	Type 0	1	1428	18	25704
9	Type 0	1	1428	18	25704
10	Type 0	1	1428	18	25704
11	Type 0	1	1428	18	25704
12	Type 0	1	1428	18	25704
13	Type 0	1	1428	18	25704
14	Type 0	1	1428	18	25704
15	Type 0	1	1428	18	25704
16	Type 0	1	1428	18	25704
17	Type 0	1	1428	18	25704
18	Type 0	1	1428	18	25704
19	Type 0	1	1428	18	25704
20	Type 0	1	1428	18	25704
21	Type 0	1	1428	18	25704
22	Type 0	1	1428	18	25704
23	Type 0	1	1428	18	25704
24	Type 0	1	1428	18	25704
25	Type 0	1	1428	18	25704
26	Type 0	1	1428	18	25704
27	Type 0	1	1428	18	25704
28	Type 0	1	1428	18	25704
29	Type 0	1	1428	18	25704

Radar Type 1

Trial Id	Radar Type	Pulse Width (μs)	PRI (μs)	Number of Pulses	Waveform Length (μs)
0	Type 1	1	938	57	53466
1	Type 1	1	698	76	53048
2	Type 1	1	618	86	53148
3	Type 1	1	538	99	53262
4	Type 1	1	878	61	53558
5	Type 1	1	3066	18	55188
6	Type 1	1	638	83	52954
7	Type 1	1	918	58	53244
8	Type 1	1	838	63	52794
9	Type 1	1	858	62	53196
10	Type 1	1	798	67	53466
11	Type 1	1	718	74	53132
12	Type 1	1	578	92	53176
13	Type 1	1	598	89	53222
14	Type 1	1	558	95	53010
15	Type 1	1	2536	21	53256
16	Type 1	1	966	55	53130
17	Type 1	1	827	64	52928
18	Type 1	1	2501	22	55022
19	Type 1	1	2595	21	54495
20	Type 1	1	1114	48	53472
21	Type 1	1	1302	41	53382
22	Type 1	1	3045	18	54810
23	Type 1	1	1624	33	53592
24	Type 1	1	2878	19	54682
25	Type 1	1	1027	52	53404
26	Type 1	1	2485	22	54670
27	Type 1	1	1600	33	52800
28	Type 1	1	1172	46	53912
29	Type 1	1	1177	45	52965

Radar Type 2

Trial Id	Radar Type	Pulse Width (μs)	PRI (μs)	Number of Pulses	Waveform Length (μs)
0	Type 2	3.2	179	26	4654
1	Type 2	1.1	207	23	4761
2	Type 2	2.1	230	24	5520
3	Type 2	4.8	200	29	5800
4	Type 2	3.9	214	28	5992
5	Type 2	2.9	222	26	5772
6	Type 2	3.2	204	26	5304
7	Type 2	2.5	192	25	4800
8	Type 2	3.1	164	26	4264
9	Type 2	1.2	156	23	3588
10	Type 2	3.9	210	27	5670
11	Type 2	4.6	201	29	5829
12	Type 2	3.2	162	26	4212
13	Type 2	2.2	197	25	4925
14	Type 2	4.5	163	29	4727
15	Type 2	3	203	26	5278
16	Type 2	5	168	29	4872
17	Type 2	2.4	217	25	5425
18	Type 2	2.9	191	26	4966
19	Type 2	2.3	166	25	4150
20	Type 2	3.7	150	27	4050
21	Type 2	2.2	176	25	4400
22	Type 2	4.9	195	29	5655
23	Type 2	2.9	202	26	5252
24	Type 2	2.5	178	25	4450
25	Type 2	1.1	206	23	4738
26	Type 2	3.8	155	27	4185
27	Type 2	4.7	157	29	4553
28	Type 2	2.4	224	25	5600
29	Type 2	4.2	159	28	4452

Radar Type 3

Trial Id	Radar Type	Pulse Width (μs)	PRI (μs)	Number of Pulses	Waveform Length (μs)
0	Type 3	8.2	355	17	6035
1	Type 3	6.1	487	16	7792
2	Type 3	7.1	344	16	5504
3	Type 3	9.8	288	18	5184
4	Type 3	8.9	230	18	4140
5	Type 3	7.9	432	17	7344
6	Type 3	8.2	207	17	3519
7	Type 3	7.5	443	17	7531
8	Type 3	8.1	439	17	7463
9	Type 3	6.2	223	16	3568
10	Type 3	8.9	208	18	3744
11	Type 3	9.6	463	18	8334
12	Type 3	8.2	441	17	7497
13	Type 3	7.2	323	16	5168
14	Type 3	9.5	297	18	5346
15	Type 3	8	412	17	7004
16	Type 3	10	324	18	5832
17	Type 3	7.4	271	17	4607
18	Type 3	7.9	349	17	5933
19	Type 3	7.3	409	16	6544
20	Type 3	8.7	373	18	6714
21	Type 3	7.2	254	16	4064
22	Type 3	9.9	274	18	4932
23	Type 3	7.9	278	17	4726
24	Type 3	7.5	317	17	5389
25	Type 3	6.1	260	16	4160
26	Type 3	8.8	211	18	3798
27	Type 3	9.7	272	18	4896
28	Type 3	7.4	264	17	4488
29	Type 3	9.2	284	18	5112

Radar Type 4

Trial Id	Radar Type	Pulse Width (μs)	PRI (μs)	Number of Pulses	Waveform Length (μs)
0	Type 4	16	355	14	4970
1	Type 4	11.3	487	12	5844
2	Type 4	13.5	344	13	4472
3	Type 4	19.4	288	16	4608
4	Type 4	17.5	230	15	3450
5	Type 4	15.3	432	14	6048
6	Type 4	15.9	207	14	2898
7	Type 4	14.3	443	13	5759
8	Type 4	15.8	439	14	6146
9	Type 4	11.5	223	12	2676
10	Type 4	17.4	208	15	3120
11	Type 4	19	463	16	7408
12	Type 4	16	441	14	6174
13	Type 4	13.8	323	13	4199
14	Type 4	18.9	297	16	4752
15	Type 4	15.5	412	14	5768
16	Type 4	19.9	324	16	5184
17	Type 4	14.1	271	13	3523
18	Type 4	15.2	349	14	4886
19	Type 4	13.8	409	13	5317
20	Type 4	17.1	373	15	5595
21	Type 4	13.8	254	13	3302
22	Type 4	19.8	274	16	4384
23	Type 4	15.3	278	14	3892
24	Type 4	14.5	317	13	4121
25	Type 4	11.3	260	12	3120
26	Type 4	17.3	211	15	3165
27	Type 4	19.2	272	16	4352
28	Type 4	14.2	264	13	3432
29	Type 4	18.2	284	15	4260

Radar Type 5

Trial Number: 0						
Number of Bursts in Trial: 15						
Chrip Center Frequency: 5530Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	2	77.8	13	1665	1477	-
1	1	51.9	13	1074	-	-
2	1	63.8	13	1584	-	-
3	3	96.6	13	1682	1786	1843
4	3	85.9	13	1795	1215	1729
5	2	73.7	13	1198	1549	-
6	2	77.2	13	1837	1819	-
7	2	68.4	13	1587	1114	-
8	2	76.7	13	2000	1155	-
9	1	53.2	13	1147	-	-
10	3	85.7	13	1433	1695	1394
11	3	94.3	13	1670	1426	1935
12	2	77.6	13	1294	1671	-
13	1	65.7	13	1512	-	-
14	3	93.5	13	1444	1130	1468
15						
16						
17						
18						
19						
20						

Trial Number: 1						
Number of Bursts in Trial: 8						
Chrip Center Frequency: 5530Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	2	75	5	1880	1527	-
1	3	99.4	5	1401	1262	1257
2	2	67.4	5	1531	1403	-
3	2	73.6	5	1449	1041	-
4	1	65.9	5	1432	-	-
5	3	83.8	5	1356	1292	1419
6	1	65.5	5	1543	-	-
7	3	98.6	5	1548	1796	1728
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

Trial Number: 2						
Number of Bursts in Trial: 11						
Chrip Center Frequency: 5530Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	2	73.8	9	1806	1538	-
1	2	69.5	9	1117	1649	-
2	1	51.9	9	1651	-	-
3	3	84.6	9	1976	1032	1271
4	3	95.4	9	1060	1903	1388
5	2	68	9	1368	1351	-
6	3	89.6	9	1338	1514	1573
7	2	81.9	9	1022	1689	-
8	3	88.3	9	1810	1330	1838
9	1	53.7	9	1597	-	-
10	3	91.3	9	1961	1106	1001
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

Trial Number: 3						
Number of Bursts in Trial: 20						
Chrip Center Frequency: 5530Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	2	68.1	19	1339	1355	-
1	1	58.7	19	1251	-	-
2	2	75.3	19	1136	1640	-
3	1	56.4	19	1753	-	-
4	3	99.7	19	1196	1708	1159
5	1	57.7	19	1013	-	-
6	1	59.5	19	1072	-	-
7	2	80	19	1482	1369	-
8	2	82	19	1993	1197	-
9	2	82.8	19	1883	1005	-
10	3	88	19	1061	1928	1101
11	3	93.2	19	1207	1907	1223
12	2	70.4	19	1526	1360	-
13	3	95.3	19	1171	1955	1775
14	2	81.9	19	1690	1545	-
15	3	98.5	19	1975	1169	1062
16	1	65	19	1767	-	-
17	3	85.4	19	1011	1637	1425
18	3	91.6	19	1878	1445	1325
19	2	67.3	19	1091	1218	-
20						

Trial Number: 4						
Number of Bursts in Trial: 17						
Chrip Center Frequency: 5530Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	2	67.9	16	1320	1133	-
1	1	62.3	16	1957	-	-
2	1	53.3	16	1592	-	-
3	3	90	16	1900	1153	1346
4	2	77.1	16	1166	1646	-
5	3	83.9	16	1278	1232	1459
6	3	89.1	16	1240	1384	1939
7	2	81.8	16	1833	1676	-
8	1	50.3	16	1075	-	-
9	3	87.1	16	1116	1996	1756
10	2	71.3	16	1225	1815	-
11	3	97.5	16	1884	1465	1132
12	3	90.6	16	1561	1040	1354
13	3	86.3	16	1596	1183	1792
14	3	97.6	16	1365	1073	1361
15	3	84.7	16	1021	1718	1854
16	3	99.7	16	1150	1244	1988
17						
18						
19						
20						

Trial Number: 5						
Number of Bursts in Trial: 14						
Chrip Center Frequency: 5530Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	3	92.9	12	1085	1564	1407
1	2	67.7	12	1744	1747	-
2	1	65.8	12	1092	-	-
3	1	56.3	12	1851	-	-
4	1	53.7	12	1727	-	-
5	3	83.5	12	1679	1930	1025
6	1	65.8	12	1519	-	-
7	3	85.9	12	1134	1034	1808
8	2	76.3	12	1606	1926	-
9	2	81.5	12	1891	1714	-
10	3	89.4	12	1310	1594	1827
11	1	63.4	12	1568	-	-
12	2	69.6	12	1307	1925	-
13	2	74.5	12	1264	1846	-
14						
15						
16						
17						
18						
19						
20						

Trial Number: 6						
Number of Bursts in Trial: 15						
Chrip Center Frequency: 5530Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	3	96.6	13	1182	1609	1581
1	3	96.7	13	1829	1799	1154
2	3	86.5	13	1923	1396	1865
3	2	73.3	13	1908	1318	-
4	1	55.8	13	1688	-	-
5	1	55.4	13	1145	-	-
6	3	85.3	13	1336	1504	1820
7	2	79.4	13	1344	1893	-
8	1	65.7	13	1476	-	-
9	2	68.6	13	1008	1028	-
10	2	77.7	13	1972	1835	-
11	2	79.6	13	1882	1331	-
12	3	94.9	13	1830	1070	1349
13	1	61.4	13	1451	-	-
14	3	90.6	13	1233	1562	1887
15						
16						
17						
18						
19						
20						

Trial Number: 7						
Number of Bursts in Trial: 12						
Chrip Center Frequency: 5530Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	1	52.6	10	1210	-	-
1	3	84.1	10	1314	1725	1529
2	3	97.7	10	1139	1868	1805
3	3	97.3	10	1341	1446	1755
4	3	98.8	10	1544	1386	1302
5	2	72.2	10	1771	1184	-
6	2	67.6	10	1175	1027	-
7	2	75.7	10	1026	1871	-
8	1	60.9	10	1798	-	-
9	1	64.2	10	1138	-	-
10	2	78.8	10	1784	1604	-
11	3	87.5	10	1511	1712	1683
12						
13						
14						
15						
16						
17						
18						
19						
20						

Trial Number: 8						
Number of Bursts in Trial: 14						
Chrip Center Frequency: 5530Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	1	54.1	13	1415	-	-
1	1	50.7	13	1221	-	-
2	1	52.3	13	1974	-	-
3	3	99.8	13	1558	1696	1949
4	2	68.4	13	1014	1099	-
5	2	80.8	13	1736	1505	-
6	1	62.5	13	1778	-	-
7	2	74.8	13	1149	1204	-
8	1	50.8	13	1049	-	-
9	1	54	13	1417	-	-
10	1	63	13	1730	-	-
11	3	91.8	13	1143	1270	1347
12	2	79.3	13	1274	1992	-
13	1	64.3	13	1937	-	-
14						
15						
16						
17						
18						
19						
20						

Trial Number: 9

Number of Bursts in Trial: 8

Chrip Center Frequency: 5530Mhz

Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	1	63.4	6	1043	-	-
1	1	52	6	1863	-	-
2	3	97.2	6	1973	1605	1583
3	2	78.7	6	1466	1743	-
4	2	74.2	6	1280	1219	-
5	3	88.7	6	1293	1934	1273
6	1	54.3	6	1991	-	-
7	3	95.4	6	1580	1555	1791
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

Trial Number: 10						
Number of Bursts in Trial: 17						
Chrip Center Frequency: 5496.4Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	2	73.7	16	1208	1497	-
1	3	97.4	16	1942	1754	1613
2	3	91.7	16	1999	1702	1462
3	1	66.2	16	1393	-	-
4	2	70.8	16	1968	1821	-
5	1	52.3	16	1740	-	-
6	2	78.9	16	1308	1984	-
7	2	70.9	16	1050	1358	-
8	2	75.6	16	1437	1430	-
9	1	59.1	16	1697	-	-
10	2	77	16	1397	1304	-
11	2	67.9	16	1803	1083	-
12	2	81.2	16	1720	1932	-
13	2	78.7	16	1247	1121	-
14	1	63.3	16	1634	-	-
15	2	68.9	16	1849	1423	-
16	1	59.3	16	1093	-	-
17						
18						
19						
20						

Trial Number: 11						
Number of Bursts in Trial: 19						
Chrip Center Frequency: 5497.6Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	3	98.9	19	1381	1680	1488
1	2	82.3	19	1716	1855	-
2	3	86.7	19	1211	1400	1919
3	3	89.7	19	1861	1068	1282
4	3	98.6	19	1507	1194	1461
5	2	71.1	19	1921	1789	-
6	1	55.9	19	1947	-	-
7	2	67.9	19	1350	1372	-
8	3	84.4	19	1203	1107	1443
9	1	58.8	19	1715	-	-
10	1	65.6	19	1017	-	-
11	2	78.5	19	1911	1704	-
12	2	82.3	19	1845	1686	-
13	3	90.1	19	1938	1071	1266
14	3	90.2	19	1989	1089	1950
15	2	83.1	19	1943	1406	-
16	1	58.8	19	1742	-	-
17	2	77	19	1187	1657	-
18	1	55	19	1012	-	-
19						
20						

Trial Number: 12						
Number of Bursts in Trial: 15						
Chrip Center Frequency: 5495.2Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	1	58.1	13	1929	-	-
1	1	52.1	13	1910	-	-
2	1	59.9	13	1971	-	-
3	1	60.2	13	1812	-	-
4	3	95.9	13	1399	1906	1608
5	2	79.9	13	1626	1859	-
6	2	78.5	13	1238	1917	-
7	1	53.8	13	1763	-	-
8	1	64.7	13	1800	-	-
9	1	61.4	13	1390	-	-
10	2	83.2	13	1692	1858	-
11	3	84.7	13	1533	1677	1638
12	3	88.7	13	1703	1528	1058
13	2	78.3	13	1258	1951	-
14	2	69.3	13	1731	1717	-
15						
16						
17						
18						
19						
20						

Trial Number: 13						
Number of Bursts in Trial: 12						
Chrip Center Frequency: 5494Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	2	75.3	10	1994	1612	-
1	1	56.3	10	1456	-	-
2	2	67.7	10	1617	1185	-
3	1	55.6	10	1337	-	-
4	2	75.2	10	1421	1267	-
5	2	76.3	10	1359	1305	-
6	3	85.7	10	1547	1362	1924
7	3	98.4	10	1873	1550	1249
8	3	86.4	10	1779	1439	1046
9	3	93.6	10	1059	1031	1452
10	1	63.3	10	1328	-	-
11	3	92.4	10	1412	1673	1322
12						
13						
14						
15						
16						
17						
18						
19						
20						

Trial Number: 14						
Number of Bursts in Trial: 19						
Chrip Center Frequency: 5497.2Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	3	93.3	18	1983	1912	1535
1	2	69.1	18	1102	1794	-
2	3	86.9	18	1044	1152	1148
3	3	84.9	18	1894	1948	1118
4	2	72.3	18	1094	1916	-
5	1	51.7	18	1447	-	-
6	1	58.3	18	1429	-	-
7	1	60.8	18	1979	-	-
8	1	57.1	18	1641	-	-
9	3	88.9	18	1886	1964	1489
10	2	72	18	1909	1297	-
11	3	90.9	18	1261	1566	1370
12	1	59.8	18	1552	-	-
13	2	70	18	1759	1291	-
14	2	67.2	18	1625	1881	-
15	3	91.2	18	1382	1832	1661
16	1	56.5	18	1483	-	-
17	1	51.2	18	1237	-	-
18	2	74.1	18	1471	1245	-
19						
20						

Trial Number: 15						
Number of Bursts in Trial: 14						
Chrip Center Frequency:5494.8Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	2	76.9	12	1110	1140	-
1	1	50.2	12	1316	-	-
2	1	62.9	12	1520	-	-
3	1	64.7	12	1902	-	-
4	3	83.8	12	1410	1097	1621
5	1	65.4	12	1944	-	-
6	1	53.2	12	1024	-	-
7	1	51.7	12	1603	-	-
8	2	78.7	12	1804	1168	-
9	2	72.4	12	1030	1343	-
10	1	53.8	12	1327	-	-
11	2	73.6	12	1524	1553	-
12	2	66.7	12	1722	1122	-
13	2	82.5	12	1404	1019	-
14						
15						
16						
17						
18						
19						
20						

Trial Number: 16						
Number of Bursts in Trial: 20						
Chirp Center Frequency: 5498Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	3	87.6	20	1565	1055	1840
1	3	85.2	20	1735	1541	1408
2	3	84.8	20	1534	1889	1463
3	2	77.9	20	1749	1460	-
4	2	76.5	20	1518	1485	-
5	1	60.9	20	1540	-	-
6	2	83	20	1080	1010	-
7	2	80.4	20	1824	1752	-
8	2	67.5	20	1764	1181	-
9	1	62.1	20	1495	-	-
10	3	86.4	20	1773	1966	1263
11	3	84.3	20	1593	1188	1788
12	2	76.9	20	1226	1537	-
13	3	95.8	20	1192	1298	1844
14	1	55.2	20	1644	-	-
15	1	59	20	1402	-	-
16	3	94.5	20	1296	1700	1283
17	3	91.9	20	1970	1978	1165
18	3	85.2	20	1732	1551	1189
19	2	69.5	20	1038	1224	-
20						

Trial Number: 17						
Number of Bursts in Trial: 12						
Chrip Center Frequency: 5494Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	3	86.4	10	1259	1918	1455
1	3	92.2	10	1598	1719	1895
2	2	80.4	10	1816	1899	-
3	1	54.3	10	1335	-	-
4	1	53.1	10	1303	-	-
5	2	69.4	10	1503	1546	-
6	2	69.1	10	1279	1639	-
7	3	100	10	1375	1438	1595
8	2	79.6	10	1239	1705	-
9	3	88.4	10	1374	1579	1623
10	1	53.3	10	1016	-	-
11	1	65.3	10	1709	-	-
12						
13						
14						
15						
16						
17						
18						
19						
20						

Trial Number: 18						
Number of Bursts in Trial: 14						
Chirp Center Frequency: 5494.8Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	1	55.3	12	1920	-	-
1	1	58.3	12	1797	-	-
2	2	72.3	12	1610	1039	-
3	3	84.8	12	1131	1761	1721
4	2	82.5	12	1875	1431	-
5	1	63.3	12	1095	-	-
6	2	80	12	1119	1913	-
7	3	90.3	12	1660	1853	1123
8	3	91.1	12	1539	1783	1172
9	3	96.6	12	1525	1036	1385
10	2	82.7	12	1710	1990	-
11	1	50.7	12	1234	-	-
12	2	78.4	12	1047	1109	-
13	3	99.5	12	1299	1965	1869
14						
15						
16						
17						
18						
19						
20						

Trial Number: 19						
Number of Bursts in Trial: 12						
Chrip Center Frequency: 5494Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	3	88.6	10	1501	1067	1927
1	1	57.4	10	1723	-	-
2	3	96.6	10	1086	1658	1324
3	2	69.7	10	1751	1945	-
4	2	77.9	10	1642	1317	-
5	1	62	10	1866	-	-
6	3	88.4	10	1997	1077	1366
7	3	97.3	10	1790	1896	1367
8	3	96.2	10	1391	1787	1672
9	3	95.4	10	1020	1892	1414
10	1	54.8	10	1084	-	-
11	2	80.4	10	1850	1436	-
12						
13						
14						
15						
16						
17						
18						
19						
20						

Trial Number: 20						
Number of Bursts in Trial: 16						
Chrip Center Frequency: 5564Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	2	74.7	15	1619	1611	-
1	1	57.1	15	1560	-	-
2	3	91.9	15	1392	1475	1276
3	2	83.1	15	1809	1772	-
4	1	50.7	15	1003	-	-
5	2	79.2	15	1574	1600	-
6	1	58.7	15	1186	-	-
7	2	71	15	1521	1567	-
8	2	79	15	1777	1960	-
9	2	68.5	15	1284	1428	-
10	2	73.5	15	1904	1352	-
11	2	70.5	15	1864	1115	-
12	2	76.6	15	1045	1300	-
13	2	81.2	15	1160	1675	-
14	1	61.8	15	1277	-	-
15	3	94.9	15	1450	1206	1860
16						
17						
18						
19						
20						

Trial Number: 21						
Number of Bursts in Trial: 12						
Chrip Center Frequency:5566.4Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	2	78.5	9	1653	1698	-
1	3	89.8	9	1174	1962	1167
2	1	59.4	9	1982	-	-
3	2	79.6	9	1633	1890	-
4	2	76	9	1112	1811	-
5	1	53.6	9	1144	-	-
6	2	80.9	9	1220	1053	-
7	1	61.6	9	1724	-	-
8	1	53.4	9	1901	-	-
9	1	59.9	9	1379	-	-
10	1	60.4	9	1453	-	-
11	3	91.4	9	1768	1726	1227
12						
13						
14						
15						
16						
17						
18						
19						
20						

Trial Number: 22						
Number of Bursts in Trial: 20						
Chrip Center Frequency: 5562Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	2	77	20	1191	1363	-
1	1	58.1	20	1248	-	-
2	1	62.1	20	1836	-	-
3	2	76.9	20	1334	1236	-
4	2	80	20	1914	1852	-
5	1	52	20	1701	-	-
6	3	88.6	20	1693	1995	1905
7	2	72.9	20	1922	1387	-
8	3	98.5	20	1839	1746	1389
9	1	57.9	20	1193	-	-
10	3	95.9	20	1659	1870	1066
11	1	53.5	20	1162	-	-
12	3	92	20	1745	1654	1458
13	1	57.3	20	1834	-	-
14	2	70.5	20	1684	1586	-
15	2	70	20	1042	1664	-
16	3	84	20	1765	1630	1176
17	2	76.1	20	1557	1057	-
18	3	93.2	20	1985	1018	1340
19	3	96.8	20	1760	1614	1817
20						

Trial Number: 23						
Number of Bursts in Trial: 14						
Chirp Center Frequency: 5565.2Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	1	50.1	12	1841	-	-
1	3	93.5	12	1590	1081	1413
2	2	68.8	12	1707	1577	-
3	1	56.3	12	1056	-	-
4	3	86	12	1953	1108	1987
5	2	75.2	12	1572	1536	-
6	1	54.4	12	1517	-	-
7	2	71.1	12	1329	1243	-
8	2	76.2	12	1940	1770	-
9	2	80.2	12	1098	1209	-
10	2	79.7	12	1588	1214	-
11	3	90.9	12	1615	1862	1601
12	2	68.7	12	1377	1441	-
13	2	67.4	12	1872	1313	-
14						
15						
16						
17						
18						
19						
20						

Trial Number: 24						
Number of Bursts in Trial: 13						
Chrip Center Frequency: 5565.6Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	3	94	11	1643	1748	1941
1	2	70.8	11	1177	1201	-
2	1	56.3	11	1006	-	-
3	3	96.7	11	1230	1163	1332
4	3	90.6	11	1217	1582	1498
5	2	74.5	11	1569	1281	-
6	3	92.6	11	1065	1669	1222
7	3	89	11	1493	1135	1380
8	3	96.5	11	1607	1822	1602
9	2	70.5	11	1141	1178	-
10	3	94	11	1009	1629	1956
11	1	55.8	11	1290	-	-
12	3	87.7	11	1435	1963	1164
13						
14						
15						
16						
17						
18						
19						
20						

Trial Number: 25

Number of Bursts in Trial: 8

Chirp Center Frequency: 5568Mhz

Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	2	68.6	5	1306	1161	-
1	2	83.1	5	1420	1315	-
2	1	60.9	5	1687	-	-
3	2	77.7	5	1776	1158	-
4	2	77.4	5	1793	1510	-
5	2	66.8	5	1576	1323	-
6	1	63.7	5	1333	-	-
7	3	91.2	5	1409	1681	1275
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

Trial Number: 26						
Number of Bursts in Trial: 17						
Chrip Center Frequency:5563.6Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	3	83.6	16	1632	1195	1000
1	3	89.4	16	1173	1627	1656
2	1	55.8	16	1532	-	-
3	3	90.9	16	1981	1554	1998
4	1	54.7	16	1825	-	-
5	3	97.7	16	1734	1202	1250
6	2	67.5	16	1571	1434	-
7	3	96.7	16	1589	1469	1268
8	2	68.3	16	1750	1954	-
9	2	78.3	16	1591	1082	-
10	1	55	16	1427	-	-
11	3	84.9	16	1129	1936	1199
12	2	74.6	16	1959	1856	-
13	1	63.3	16	1885	-	-
14	3	99.8	16	1035	1515	1120
15	1	63.6	16	1647	-	-
16	3	87.3	16	1931	1051	1831
17						
18						
19						
20						

Trial Number: 27						
Number of Bursts in Trial: 19						
Chrip Center Frequency: 5562.4Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	3	85.6	19	1946	1078	1015
1	2	68.6	19	1029	1780	-
2	1	54.2	19	1111	-	-
3	1	61.2	19	1104	-	-
4	3	97.1	19	1157	1969	1100
5	3	98.3	19	1142	1699	1622
6	1	62.4	19	1655	-	-
7	2	80.2	19	1126	1769	-
8	3	87.5	19	1216	1448	1179
9	3	85.8	19	1847	1348	1472
10	3	88.1	19	1023	1124	1631
11	1	65.3	19	1848	-	-
12	1	52.5	19	1470	-	-
13	1	52.3	19	1312	-	-
14	2	74.1	19	1915	1200	-
15	1	54.9	19	1479	-	-
16	2	76.2	19	1376	1502	-
17	1	60.4	19	1758	-	-
18	2	81.5	19	1491	1103	-
19						
20						

Trial Number: 28

Number of Bursts in Trial: 12

Chirp Center Frequency: 5566Mhz

Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	1	50.5	10	1857	-	-
1	1	55.7	10	1246	-	-
2	3	85.8	10	1774	1002	1967
3	2	76.9	10	1125	1474	-
4	2	75.1	10	1254	1052	-
5	3	92.3	10	1180	1486	1492
6	2	78.1	10	1301	1757	-
7	3	92.2	10	1898	1252	1713
8	3	89	10	1260	1706	1411
9	2	70.9	10	1578	1620	-
10	1	63.1	10	1782	-	-
11	1	55.3	10	1522	-	-
12						
13						
14						
15						
16						
17						
18						
19						
20						

Trial Number: 29						
Number of Bursts in Trial: 18						
Chrip Center Frequency: 5563.2Mhz						
Burst ID	Number of Pulses	Pulse Width (μsec)	Chirp Width (MHz)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
0	3	83.4	17	1454	1205	1801
1	3	97.3	17	1319	1826	1635
2	3	90.4	17	1079	1986	1674
3	3	91.8	17	1563	1151	1802
4	3	98.2	17	1876	1977	1766
5	1	59.5	17	1952	-	-
6	2	80	17	1253	1137	-
7	3	86.5	17	1054	1128	1828
8	3	91.1	17	1105	1599	1442
9	3	93.5	17	1867	1373	1087
10	1	60.7	17	1033	-	-
11	2	67.2	17	1288	1405	-
12	1	61.8	17	1585	-	-
13	2	79.4	17	1933	1667	-
14	2	81.4	17	1096	1464	-
15	1	65.7	17	1496	-	-
16	2	76	17	1733	1255	-
17	2	81	17	1326	1668	-
18						
19						
20						

Radar Type 6

Trial Id	Radar Type	Pulse Width (μs)	PRI (μs)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (ms)	Number of Pulses
0	Type 6	1	333.3	9	0.3333	300	16
1	Type 6	1	333.3	9	0.3333	300	10
2	Type 6	1	333.3	9	0.3333	300	14
3	Type 6	1	333.3	9	0.3333	300	19
4	Type 6	1	333.3	9	0.3333	300	15
5	Type 6	1	333.3	9	0.3333	300	18
6	Type 6	1	333.3	9	0.3333	300	14
7	Type 6	1	333.3	9	0.3333	300	14
8	Type 6	1	333.3	9	0.3333	300	21
9	Type 6	1	333.3	9	0.3333	300	15
10	Type 6	1	333.3	9	0.3333	300	16
11	Type 6	1	333.3	9	0.3333	300	24
12	Type 6	1	333.3	9	0.3333	300	13
13	Type 6	1	333.3	9	0.3333	300	20
14	Type 6	1	333.3	9	0.3333	300	17
15	Type 6	1	333.3	9	0.3333	300	20
16	Type 6	1	333.3	9	0.3333	300	16
17	Type 6	1	333.3	9	0.3333	300	18
18	Type 6	1	333.3	9	0.3333	300	14
19	Type 6	1	333.3	9	0.3333	300	16
20	Type 6	1	333.3	9	0.3333	300	20
21	Type 6	1	333.3	9	0.3333	300	19
22	Type 6	1	333.3	9	0.3333	300	23
23	Type 6	1	333.3	9	0.3333	300	17
24	Type 6	1	333.3	9	0.3333	300	16
25	Type 6	1	333.3	9	0.3333	300	13
26	Type 6	1	333.3	9	0.3333	300	13
27	Type 6	1	333.3	9	0.3333	300	18
28	Type 6	1	333.3	9	0.3333	300	19
29	Type 6	1	333.3	9	0.3333	300	20