

DFS Test Report

Report No.: RF200224C22-1

FCC ID: T4829973R

Test Model: 29973-RX

Received Date: Feb. 24, 2020

Test Date: May 27 ~ Jun. 11, 2020

Issued Date: Jun. 19, 2020

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Designation Number:



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Release Control Record

Issue No.	Description	Date Issued
RF200224C22-1	Original release	Jun. 19, 2020

1 Certificate of Conformity

Product: WIRELESS CONFERENCE ROOM VIDEO HUB - HDMI AND USB-C

Brand: C2G

Test Model: 29973-RX

Sample Status: Engineering Sample

Applicant: Ortronics Inc.

Test Date: May 27 ~ Jun. 11, 2020

Standards: FCC Part 15, Subpart E (Section 15.407)

References Test KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

Guidance: KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r02

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by :


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Date: Jun. 19, 2020

Approved by :


Bruce Chen / Senior Project Engineer

Date: Jun. 19, 2020

2 EUT Information

2.1 Operating Frequency Bands and Mode of EUT

Table 1: Operating frequency bands and mode of EUT

Operational Mode	Operating Frequency Range	
	5250~5350MHz	5470~5725MHz
Master	✓	✓

2.2 EUT Software and Firmware Version

Table 2: The EUT software/firmware version

Description	Model	Software/Firmware Version
WIRELESS CONFERENCE ROOM VIDEO HUB - HDMI AND USB-C	29973-RX	WHD29973RU01201131

2.3 Description of Available Antennas to the EUT

Table 3: Antenna list

ANT No.	Antenna Type	Operation Frequency Range (MHz)	Min. Gain (dBi)	Max. Gain (dBi)
Ant.A (RX)	Dipole	5250~5725	3.97	4.96
Ant.B (TX/RX)	Dipole	5250~5725	4.01	5.02
Ant.1 (RX)	PCB	5250~5725	0.9	
Ant.2 (RX)	PCB	5250~5725	2.9	
Ant.3 (RX)	PCB	5250~5725	4.8	

Note: The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

2.4 EUT Maximum Conducted Power

Table 4: The measured conducted output power

WHDI (40MHz)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	17.18	52.240
5470~5725	17.36	54.450

2.5 EUT Maximum EIRP Power

Table 5: The EIRP output power list

WHDI (40MHz)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	22.20	165.959
5470~5725	21.80	151.356

2.6 Transmit Power Control (TPC)

U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.

Maximum E.I.R.P of this device is 165.959 mW which less than 500mW, therefore it's not require TPC function.

Applicable	E.I.R.P	FCC 15.407 (h)(1)
	>500mW	The TPC mechanism is required for system with an E.I.R.P of above 500Mw
√	<500mW	The TPC mechanism is not required for system with an E.I.R.P of less 500mW

2.7 Statement of Manufacturer

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

3 U-NII DFS Rule Requirements

3.1 Working Modes and Required Test Items

The manufacturer shall state whether the UUT is capable of operating as a Master and/or a Client. If the UUT is capable of operating in more than one operating mode then each operating mode shall be tested separately. See tables 6 and 7 for the applicability of DFS requirements for each of the operational modes.

Table 6: Applicability of DFS Requirements Prior To Use a Channel

Requirement	Operational Mode		
	Master	Client without radar detection	Client with radar detection
Non-Occupancy Period	✓	✓ note	✓
DFS Detection Threshold	✓	Not required	✓
Channel Availability Check Time	✓	Not required	Not required
U-NII Detection Bandwidth	✓	Not required	✓

Note: Per KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r02 section (b)(5/6), If the client moves with the master, the device is considered compliant if nothing appears in the client non-occupancy period test. For devices that shut down (rather than moving channels), no beacons should appear. An analyzer plot that contains a single 30-minute sweep on the original channel.

Table 7: Applicability of DFS Requirements during Normal Operation.

Requirement	Operational Mode	
	Master or Client with radar detection	Client without radar detection
DFS Detection Threshold	✓	Not required
Channel Closing Transmission Time	✓	✓
Channel Move Time	✓	✓
U-NII Detection Bandwidth	✓	Not required

Additional requirements for devices with multiple bandwidth modes	Master 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.

3.2 Test Limits and Radar Signal Parameters

Detection Threshold Values

Table 8: 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.
 Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

Table 9: 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 U-NII 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 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

Parameters of DFS Test Signals

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.

Table 10: 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.					

Table 11: Long Pulse Radar Test Waveform

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	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

Three subsets of trials will be performed with a minimum of ten trials per subset. The subset of trials differ in where the Long Pulse Type 5 Signal is tuned in frequency.

- a) the Channel center frequency
- b) tuned frequencies such that 90% of the Long Pulse Type 5 frequency modulation is within the low edge of the UUT Occupied Bandwidth
- c) tuned frequencies such that 90% of the Long Pulse Type 5 frequency modulation is within the high edge of the UUT Occupied Bandwidth

It include 10 trails for every subset, the formula as below,

For subset case 1: the center frequency of the signal generator will remain fixed at the center of the UUT Channel.

For subset case 2: to retain 90% frequency overlap between the radar signal and the UUT Occupied Bandwidth, the center frequency of the signal generator will vary for each of the ten trials in subset case 2. The center frequency of the signal generator for each trial is calculated by:

$$FL + (0.4 * \text{Chirp Width [in MHz]})$$

For subset case 3: to retain 90% frequency overlap between the radar signal and the UUT Occupied Bandwidth, the center frequency of the signal generator will vary for each of the ten trials in subset case 3. The center frequency of the signal generator for each trial is calculated by:

$$FH - (0.4 * \text{Chirp Width [in MHz]})$$

Table 12: 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

4 Test & Support Equipment List

4.1 Test Instruments

Table 13: Test Instruments List

Description & Manufacturer	Model No.	Brand	Date of Calibration	Due Date of Calibration
Spectrum analyzer	ESR	R&S	Mar. 04, 2020	Mar. 03, 2021
Signal generator	MXG	KEYSIGHT	Dec. 23, 2019	Dec. 22, 2020
Horn antenna	BBHA 9120 D	Schwarzbeck	Nov. 24, 2019	Nov. 23, 2020
RF coaxial cable	SUCOFLEX 104	HUBER SUHNER	NA	NA

Note: Calibrate the RF coaxial cable before each test and use the radiation or conducted method to calibrate the reference FCC KDB 412172 standard.

4.2 Description of Support Units

Table 14: Support Unit information

No.	Product	Brand	Model No.
1	WIRELESS CONFERENCE ROOM VIDEO HUB - HDMI® AND USB-C®	C2G	29973-TX

Note: This device was functioned as a ☐ Master ☒ Slave device during the DFS test.

Table 15: Software/Firmware Information.

No.	Product	Model No.	Software/Firmware Version
1	WIRELESS CONFERENCE ROOM VIDEO HUB - HDMI® AND USB-C®	29973-TX	WHD29973TU01201131

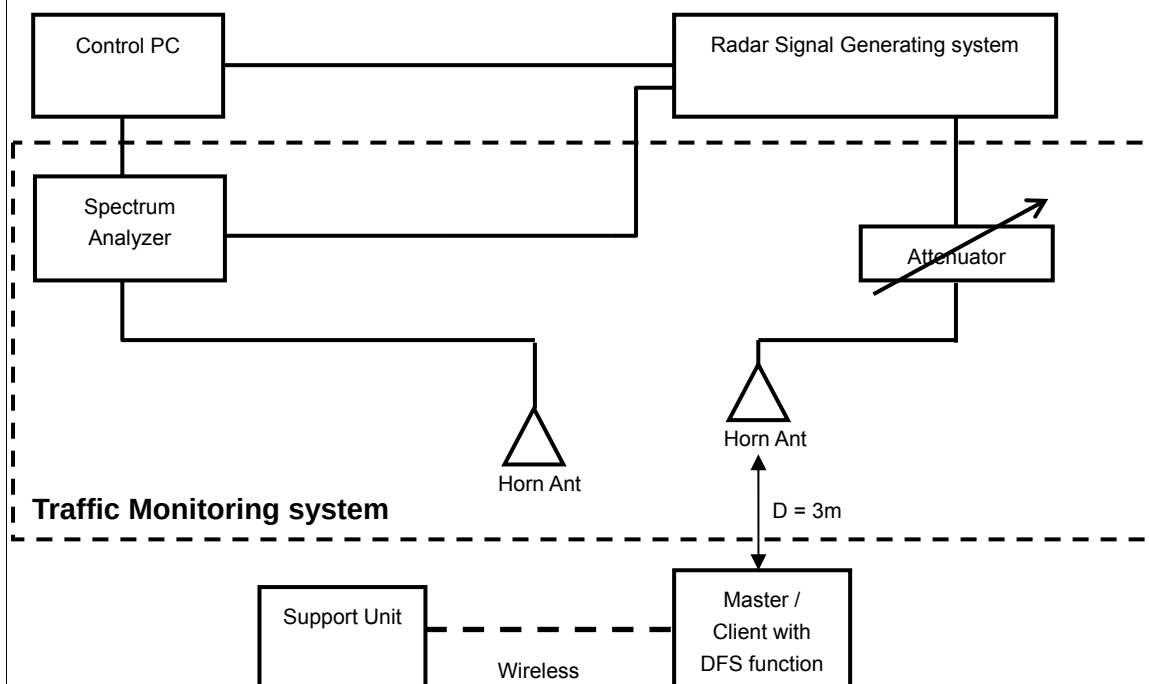
Note: This device was functioned as a ☐ Master ☒ Slave device during the DFS test.

5 Test Procedure

5.1 DFS Measurement System

A complete DFS Measurement System consists of two subsystems: (1) the Radar Signal Generating Subsystem and (2) the Traffic Monitoring Subsystem. The control PC is necessary for generating the Radar waveforms in Table 10, 11 and 12. The traffic monitoring subsystem is specified to the type of unit under test (EUT).

Radated setup configuration of DFS Measurement System



Channel Loading

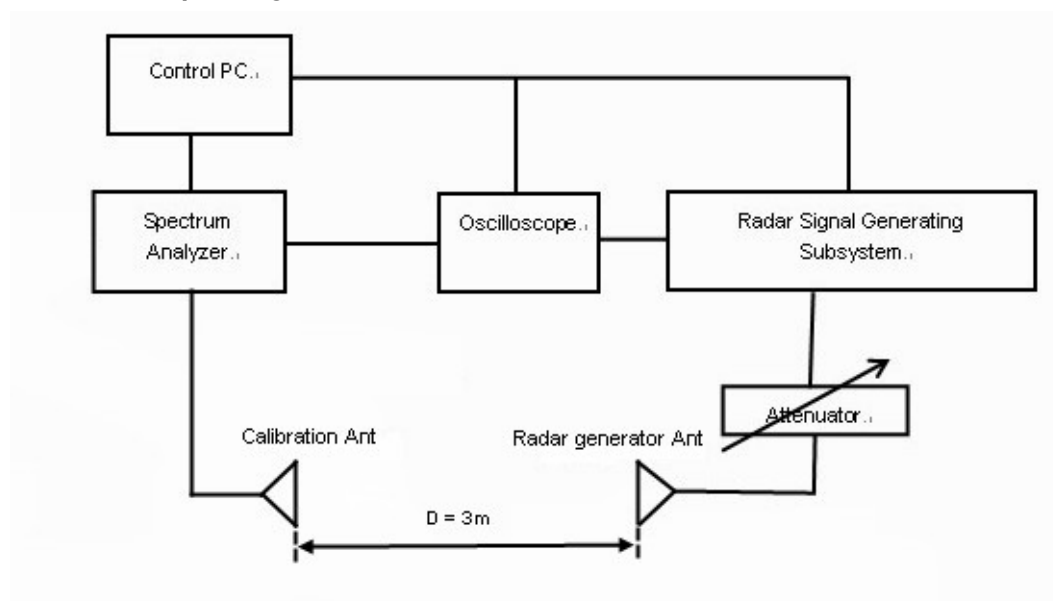
System testing will be performed with channel-loading using means appropriate to the data types that are used by the unlicensed device. The following requirements apply:

v	a) The data file must be of a type that is typical for the device (i.e., MPEG-2, MPEG-4, WAV, MP3, MP4, AVI, etc.) and must generally be transmitting in a streaming mode.
	b) Software to ping the client is permitted to simulate data transfer but must have random ping intervals.
	c) Timing plots are required with calculations demonstrating a minimum channel loading of approximately 17% or greater.
	d) Unicast or Multicast protocols are preferable but other protocols may be used. The appropriate protocol used must be described in the test procedures.

5.2 Calibration of DFS detection threshold level

The measured channel is 5510 MHz. The radar signal was the same as transmitted channels, and injected into the antenna of AP (master) or Client Device with Radar Detection, measured the channel closing transmission time and channel move time. The calibrated detection threshold level is set to -62dBm. The tested level is lower than required level hence it provides margin to the limit.

Radiated setup configuration of Calibration of DFS Detection Threshold Level

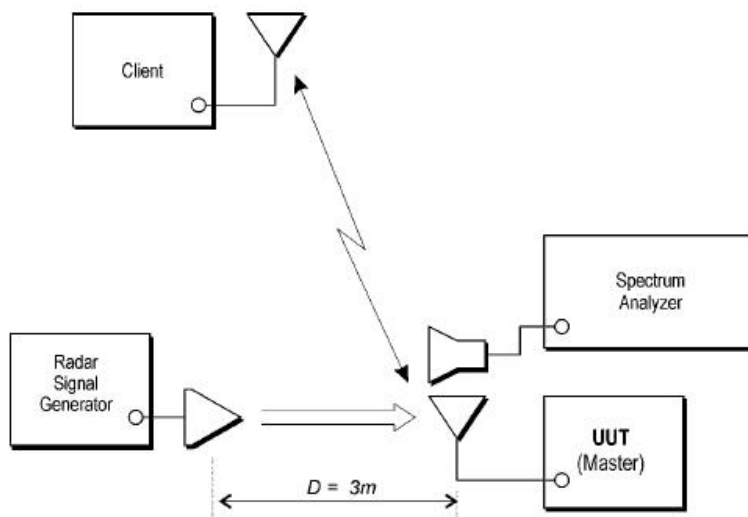


5.3 Deviation from Test Standard

No deviation.

5.4 Radiated Test Setup Configuration

5.4.1 Master Mode



The EUT is a U-NII Device operating in Master mode. The radar test signals are injected into the Master Device.

6 Test Results

6.1 Summary of Test Result

Clause	Test Parameter	Remarks	Pass/Fail
15.407	DFS Detection Threshold	Applicable	Pass
15.407	U-NII Detection Bandwidth	Applicable	Pass
15.407	Channel Availability Check Time	Applicable	Pass
15.407	Channel Move Time	Applicable	Pass
15.407	Channel Closing Transmission Time	Applicable	Pass
15.407	Non-Occupancy Period	Applicable	Pass
15.407	Uniform Spreading	Applicable	Pass

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

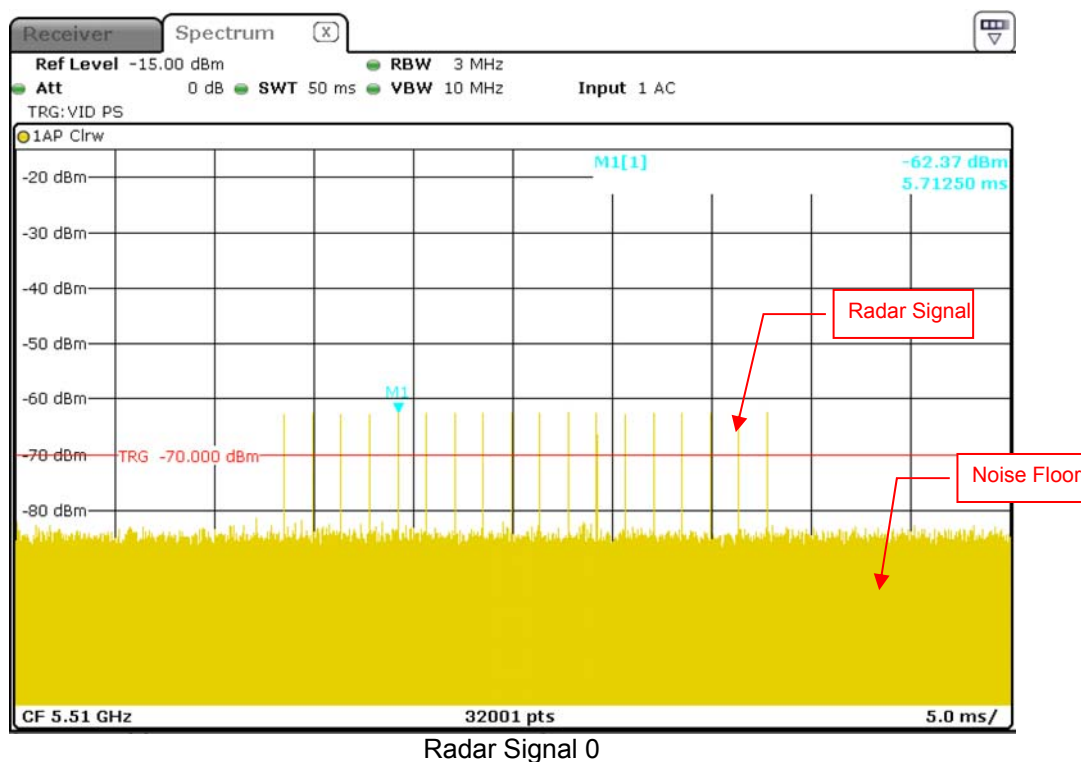
6.2 Detection Test Results

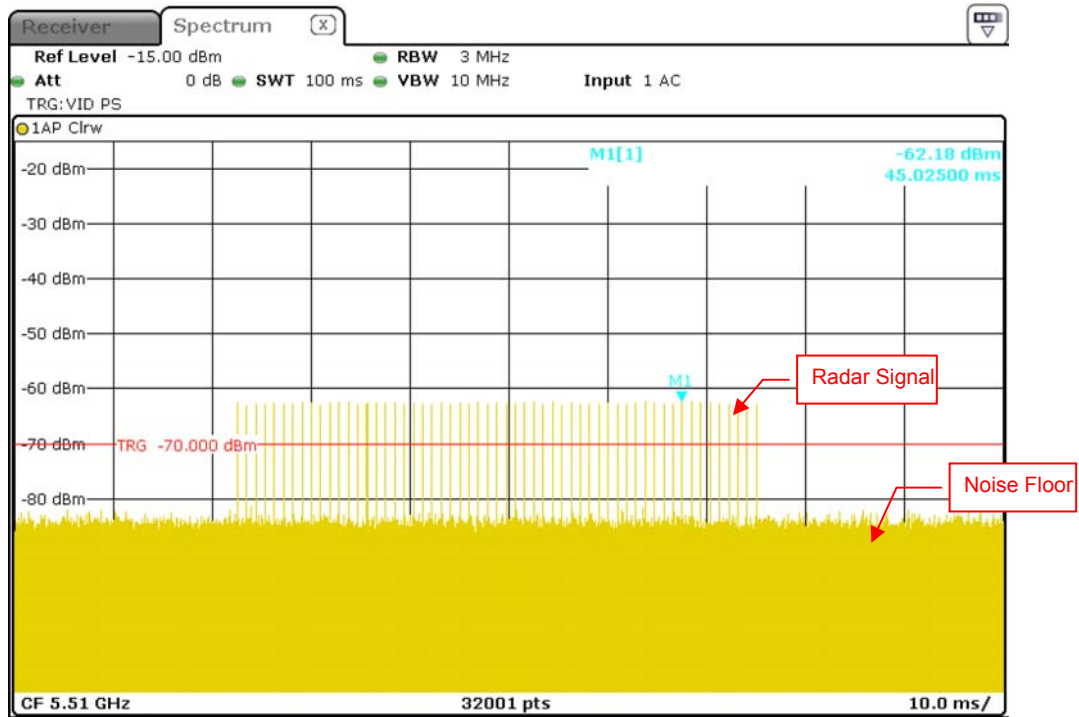
6.2.1 Test Mode: Device operating in Master mode

The radar test waveforms are injected into the Master.

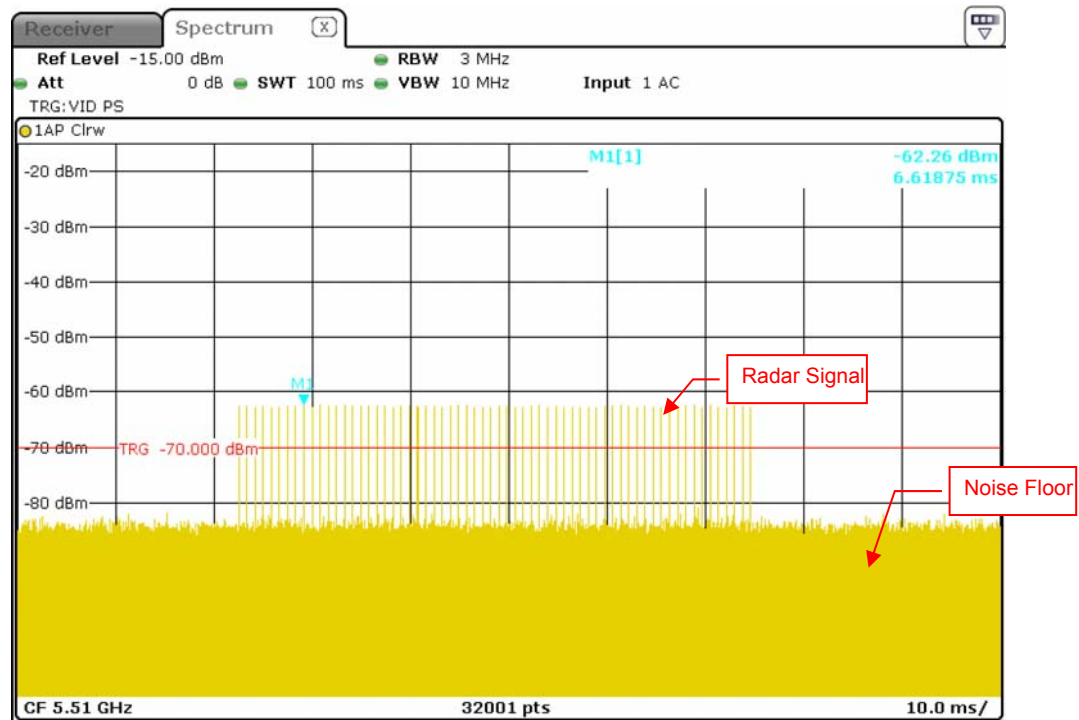
DFS Detection Threshold

For a detection threshold level of -62dBm, the required signal strength at EUT antenna location is -62 dBm. The tested level is lower than required level hence it provides margin to the limit.

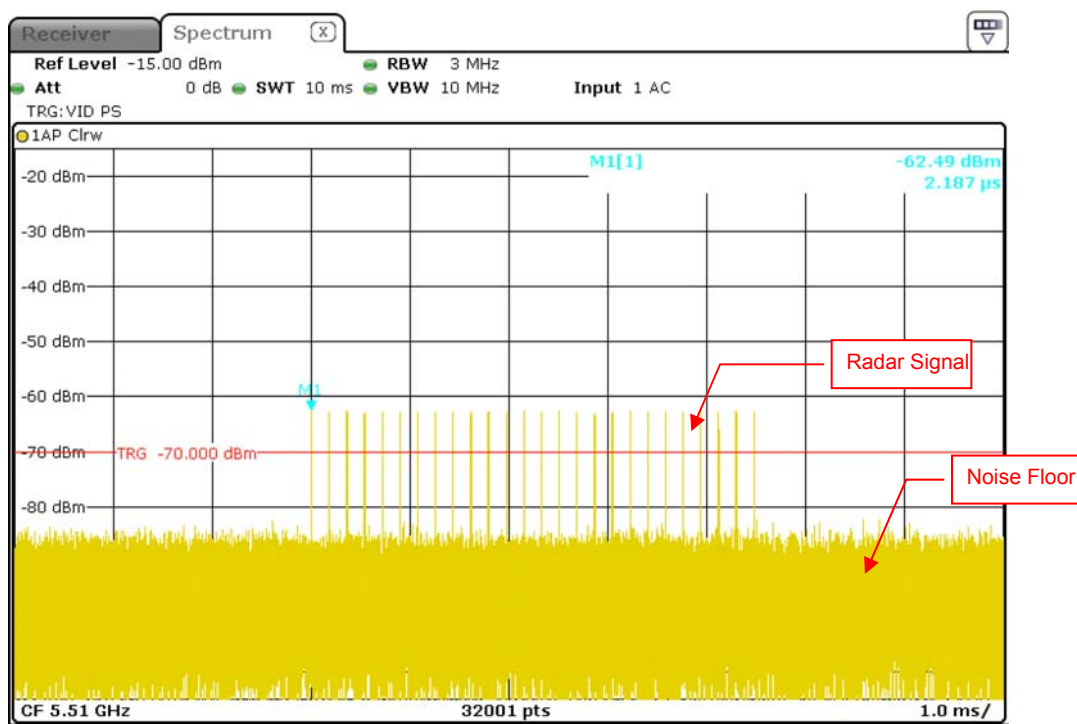




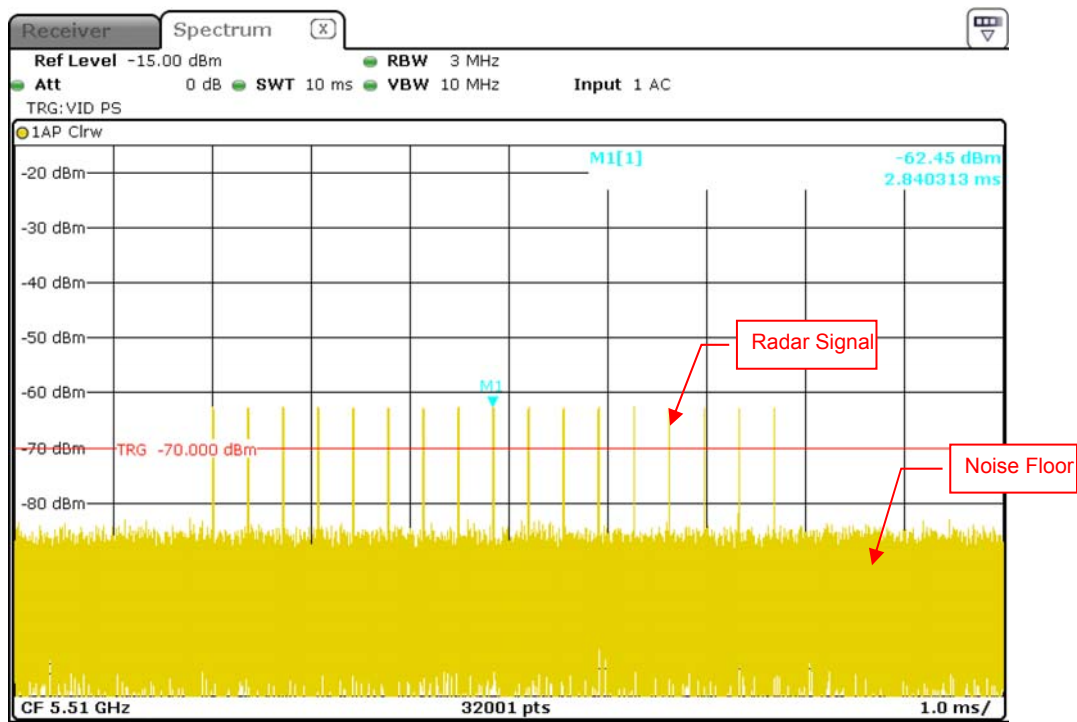
Radar Signal 1 (Test A)



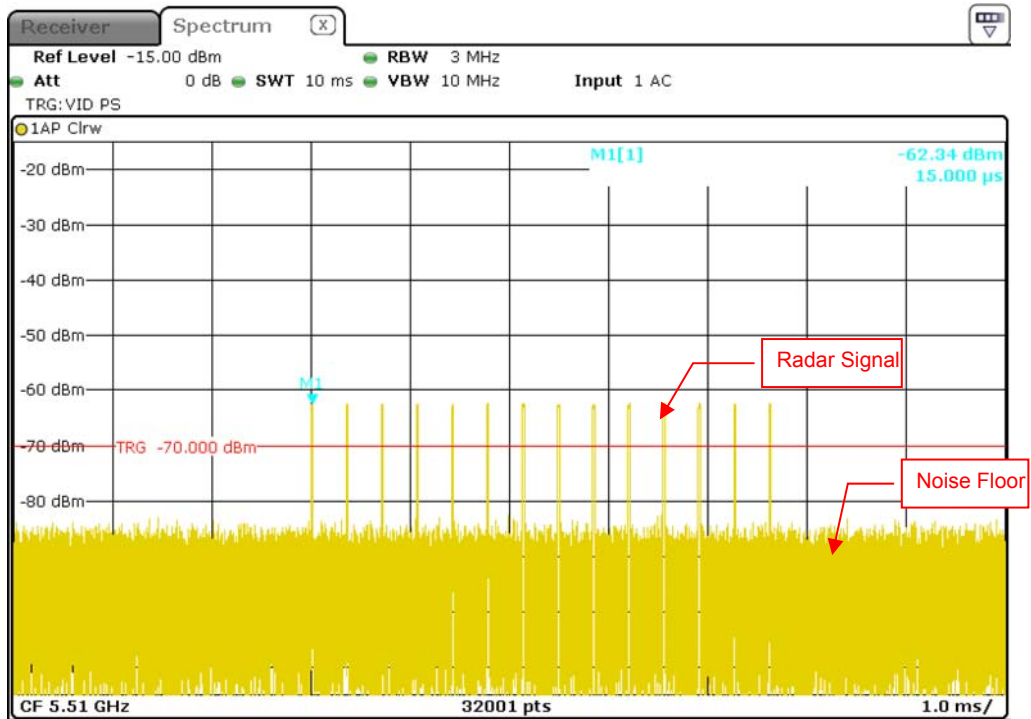
Radar Signal 1 (Test B)



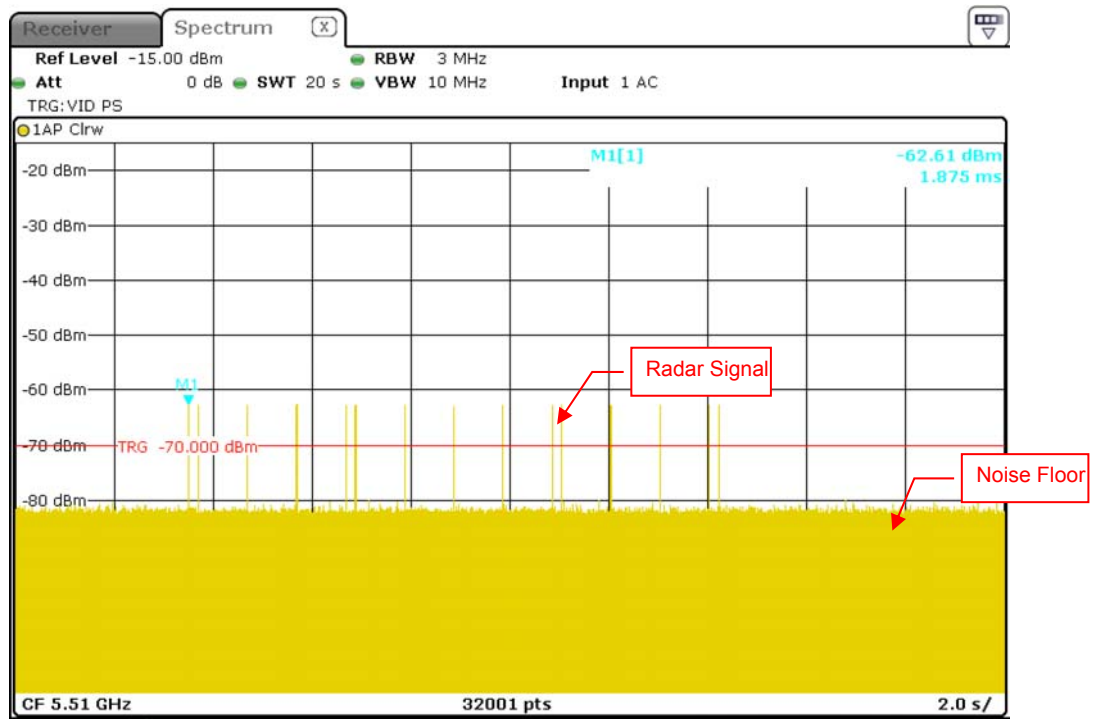
Radar Signal 2



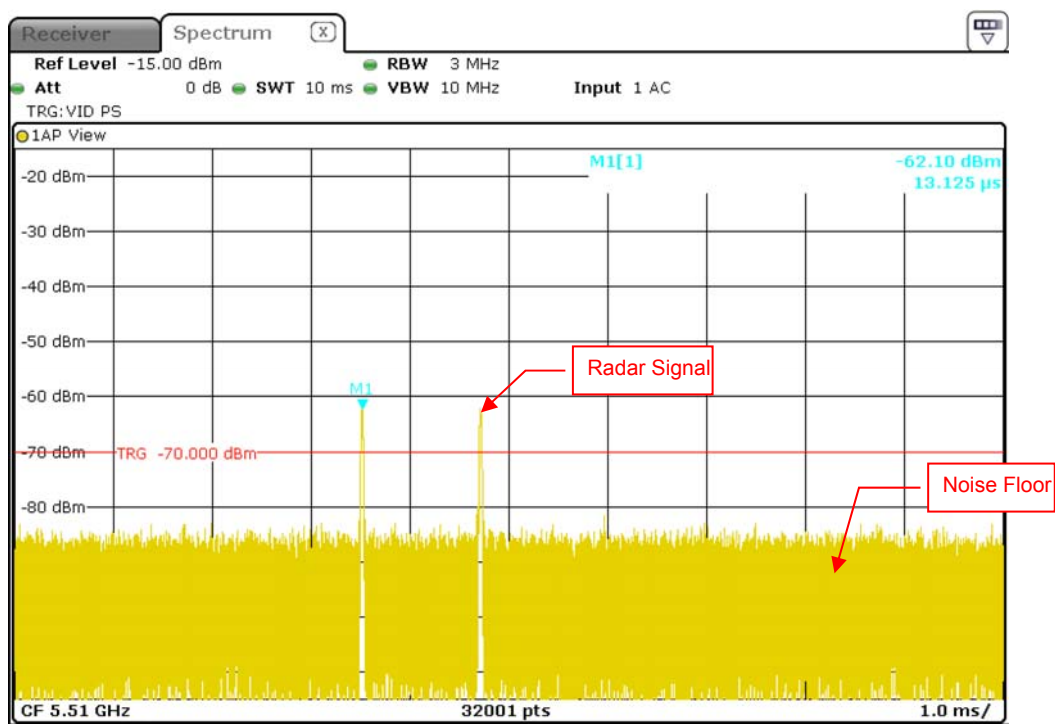
Radar Signal 3



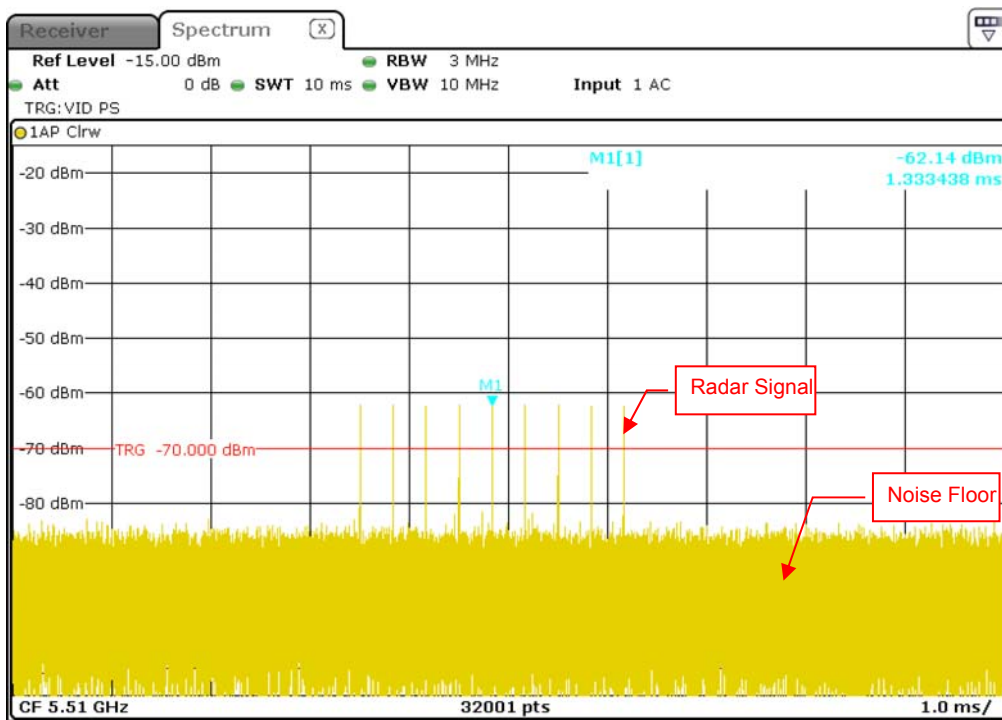
Radar Signal 4



Radar Signal 5



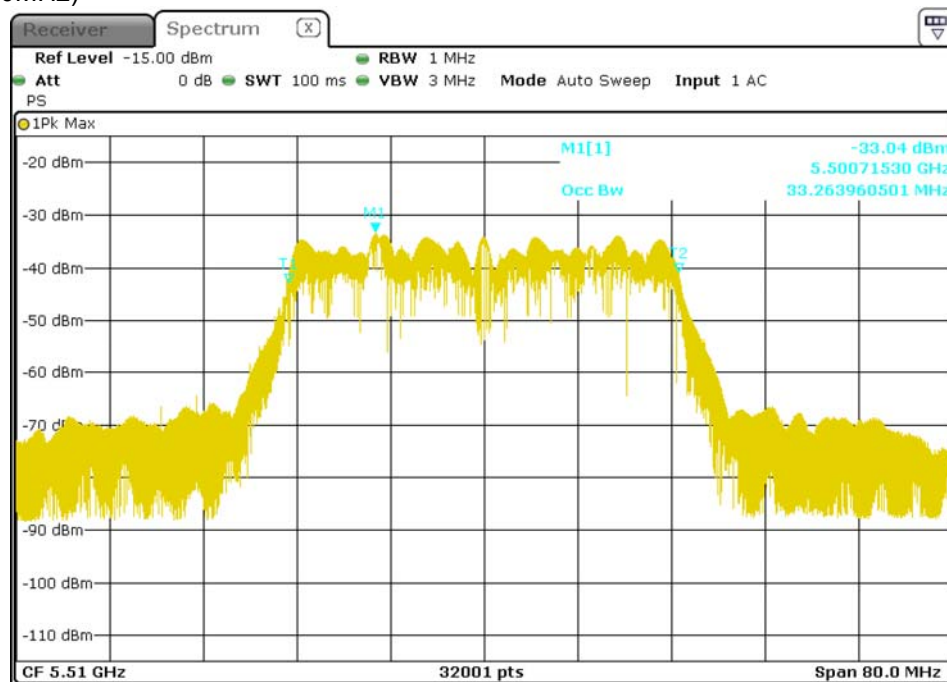
Single Burst of Radar Signal 5



Radar Signal 6

6.2.2 U-NII Detection Bandwidth

WHDI (40MHz)



U-NII 99% Channel bandwidth

Note:

UUT Occupied Bandwidth: 33.26 MHz

UUT Occupied Bandwidth low edge (FL): 5493.37 MHz

UUT Occupied Bandwidth high edge (FH): 5526.63 MHz

Detection Bandwidth Test - WHDI (40MHz)

Radar Type 0

EUT Frequency: 5510MHz

EUT 99% Power bandwidth: 33.26MHz

Detection bandwidth limit (100% of EUT 99% Power bandwidth): 33.26MHz

Detection bandwidth (5529(FH) – 5490(FL)) : 39MHz

Test Result : PASS

Radar Frequency (MHz)	Trial Number / Detection										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5489	No	No	No	No	No	No	No	No	No	No	0.0
5490 (FL)	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	90.0
5491	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100.0
5492	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100.0
5493	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100.0
5494	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100.0
5495	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100.0
5496	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100.0
5497	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100.0
5498	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100.0
5499	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100.0
5500	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100.0
5501	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100.0
5502	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100.0
5503	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100.0
5504	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100.0
5505	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100.0
5506	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100.0
5507	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100.0
5508	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100.0
5509	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100.0
5510	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100.0
5511	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100.0
5512	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100.0
5513	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100.0
5514	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100.0
5515	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100.0
5516	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100.0
5517	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100.0
5518	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100.0
5519	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100.0
5520	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100.0
5521	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100.0
5522	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100.0
5523	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100.0
5524	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100.0
5525	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100.0
5526	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100.0
5527	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100.0
5528	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100.0
5529 (FH)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100.0
5530	No	No	No	No	No	No	No	No	No	No	0.0

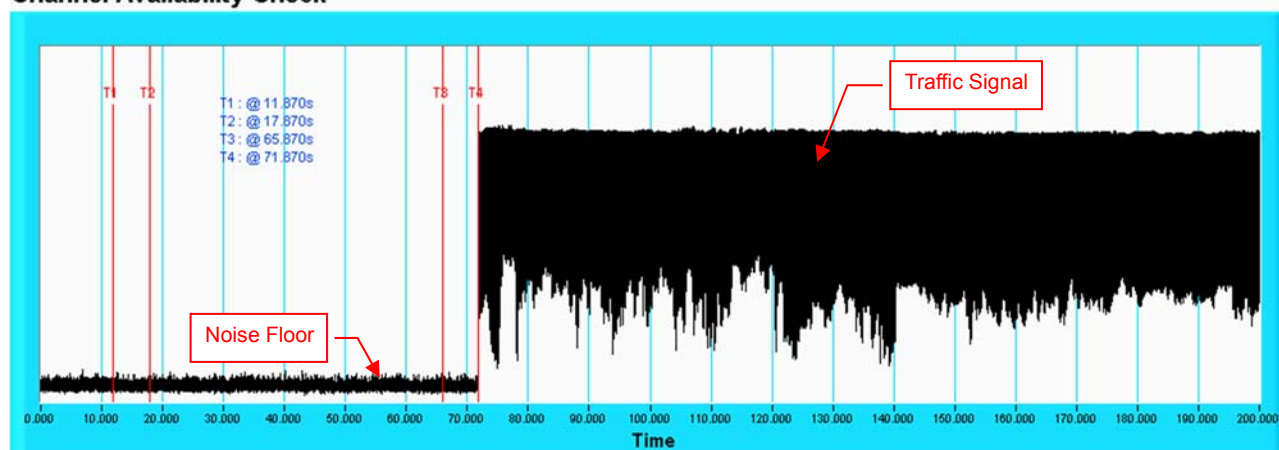
6.2.3 Channel Availability Check Time

If the EUT successfully detected the radar burst, it should be observed as the EUT has no transmissions occurred until the EUT starts transmitting on another channel.

Timing of Radar Signal	Observation	
	EUT	Spectrum Analyzer
Within 1 to 6 second	Detected	No transmissions
Within 54 to 60 second	Detected	No transmissions

Initial Channel Availability Check Time

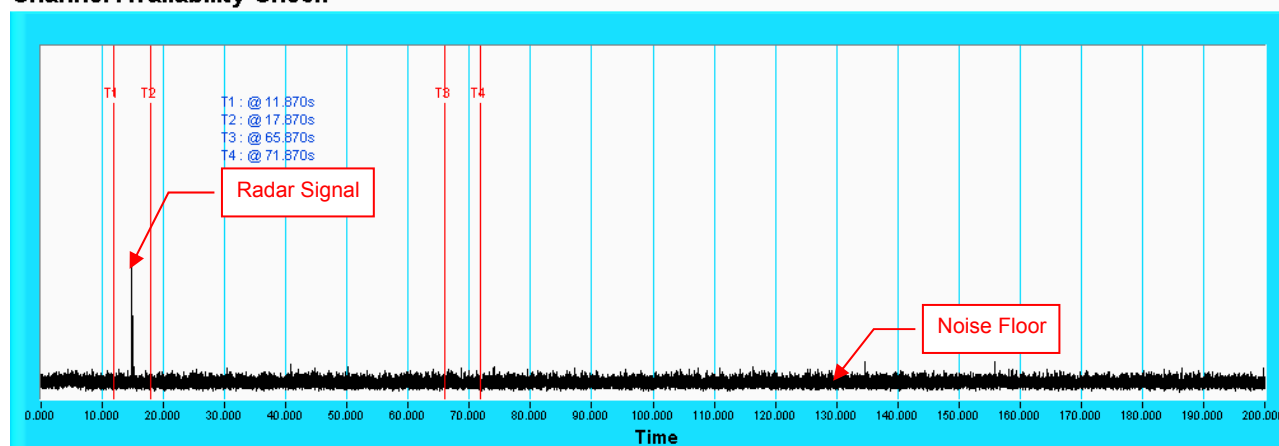
Channel Availability Check



NOTE: T1 denotes the end of power-up time period is 11.87th second. T4 denotes the end of Channel Availability Check time is 71.87th second. Channel Availability Check time is equal to (T4 – T1) 60 seconds.

Radar Burst at the Beginning of the Channel Availability Check Time

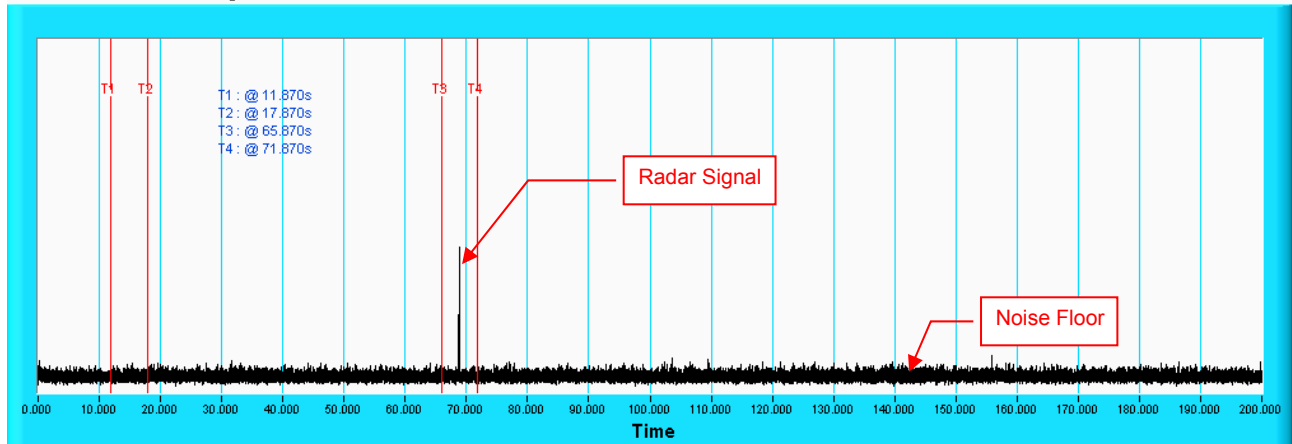
Channel Availability Check



NOTE: T1 denotes the end of power up time period is 11.87th second. T2 denotes 17.87th second and the radar burst was commenced within a 6 second window starting from the end of power-up sequence. T4 denotes the 71.87th second.

Radar Burst at the End of the Channel Availability Check Time

Channel Availability Check

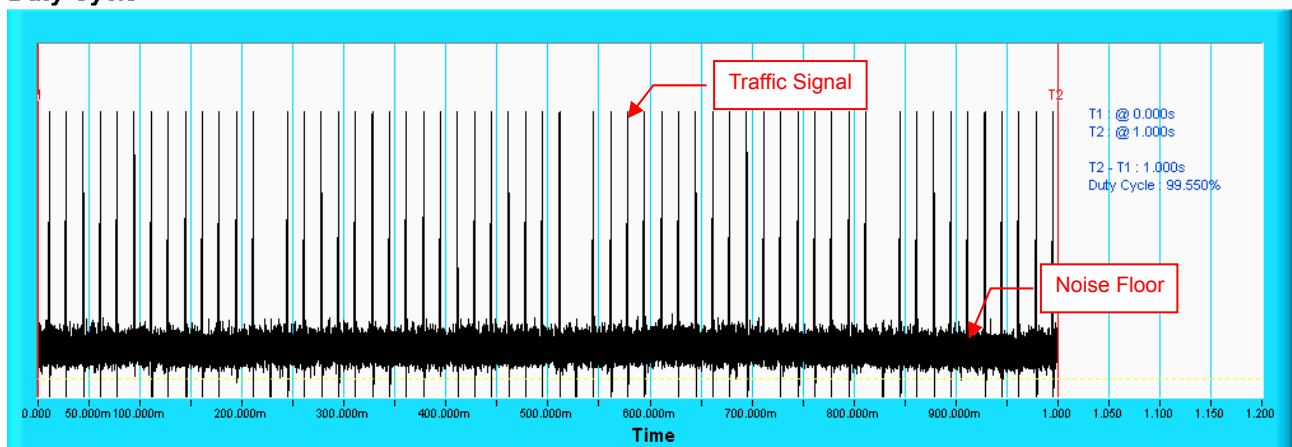


NOTE: T1 denotes the end of power up time period is 11.87th second. T3 denotes 65.87th second and the radar burst was commenced within 54th second to 60th second window starting from the end of power-up sequence. T4 denotes the 71.87th second.

6.2.4 Channel Closing Transmission and Channel Move Time

WHDI (40MHz)

Duty Cycle



WHDI (40MHz)

Table 1: Short Pulse Radar Test Waveforms.

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Number of Trials (Times)	Percentage of Successful Detection (%)
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	Roundup $\left\{ \left\{ \frac{1}{360} \right\} \cdot \left\{ \frac{19 \cdot 10^6}{\text{PRI}_{\mu \text{sec}}} \right\} \right\}$	30	90
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 μ sec, with a minimum increment of 1 μ sec, excluding PRI values selected in Test A			
2	1-5	150-230	23-29	30	100
3	6-10	200-500	16-18	30	86.67
4	11-20	200-500	12-16	30	86.67
Aggregate (Radar Types 1-4)				120	90.83

Table 2: Long Pulse Radar Test Waveform

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

Table 3: Frequency Hopping Radar Test Waveform

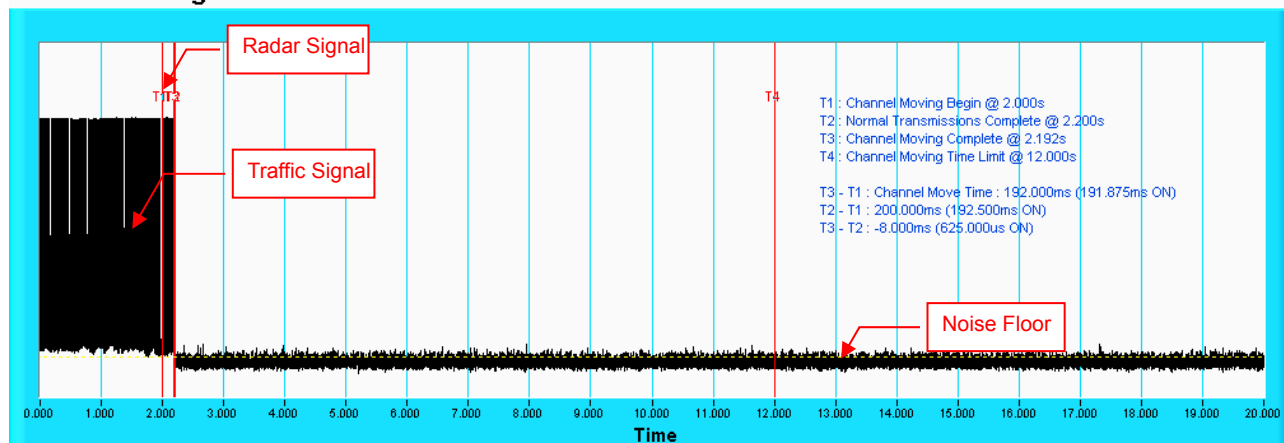
Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Number of Trials(Times)	Percentage of Successful Detection (%)
6	1	333	9	0.333	300	30	100

The Detailed Radar pattern and Statistical Performance showed in Annex A.

Radar signal 0

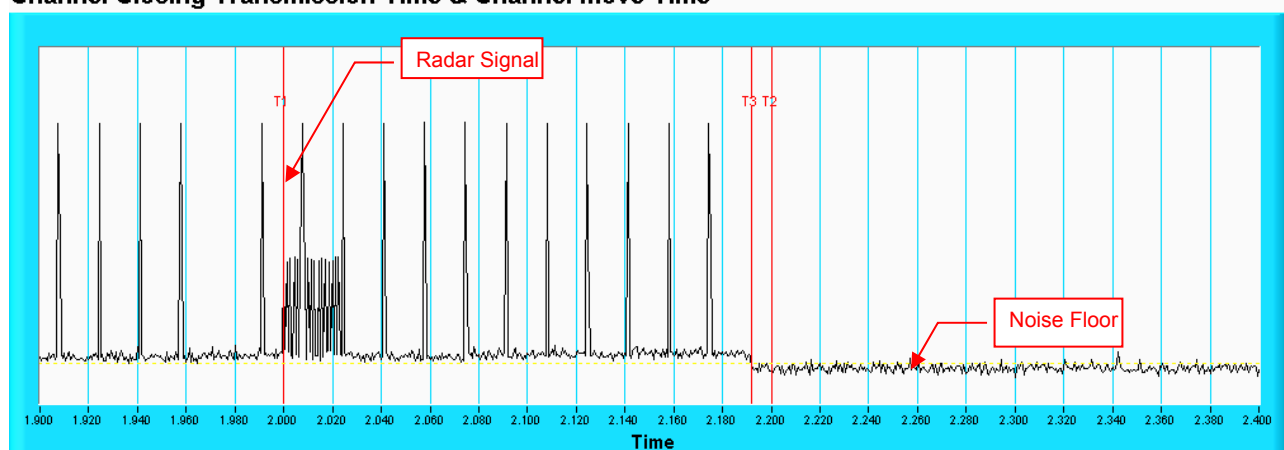
WHDI (40MHz)

Channel Closing Transmission Time & Channel Move Time



Note: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

Channel Closing Transmission Time & Channel Move Time

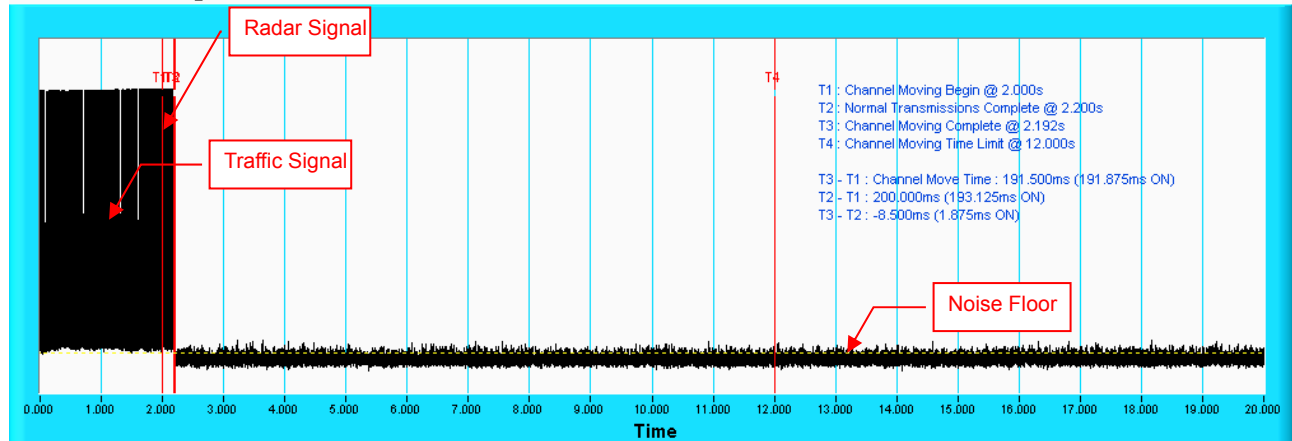


Note: Room-in of the first 500ms after radar signal applied.

Radar signal 1

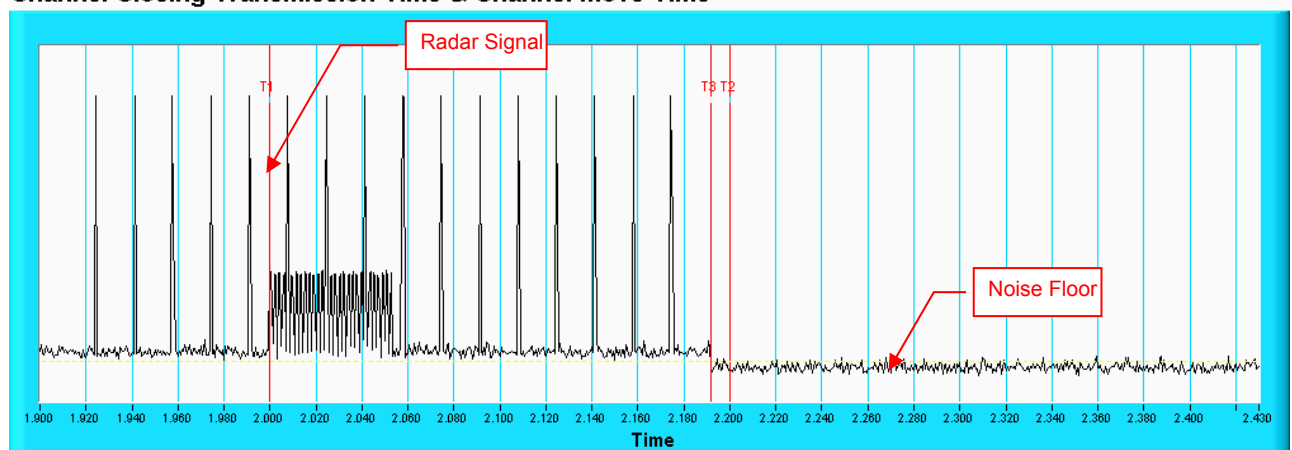
WHDI (40MHz)

Channel Closing Transmission Time & Channel Move Time



Note: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

Channel Closing Transmission Time & Channel Move Time

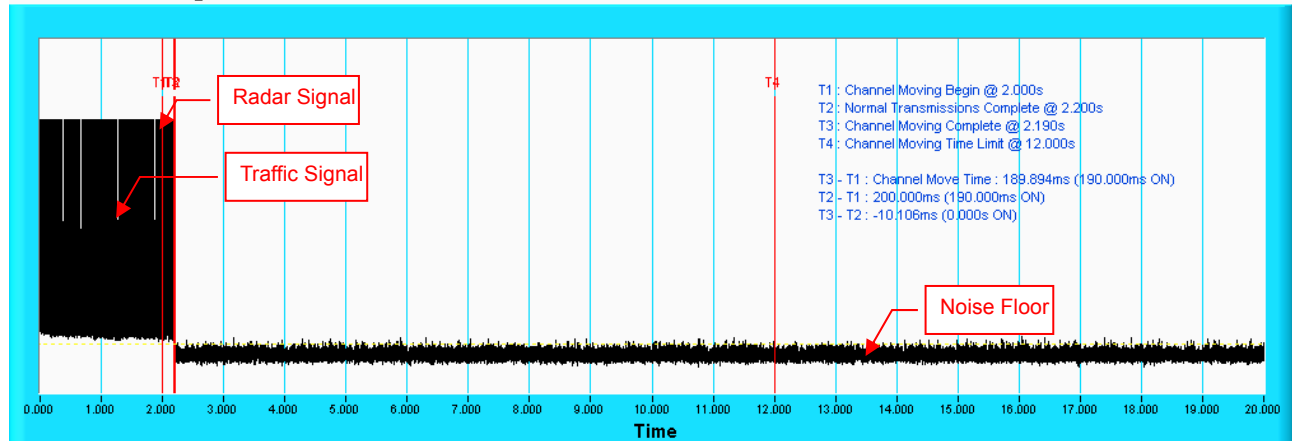


Note: Room-in of the first 500ms after radar signal applied.

Radar signal 2

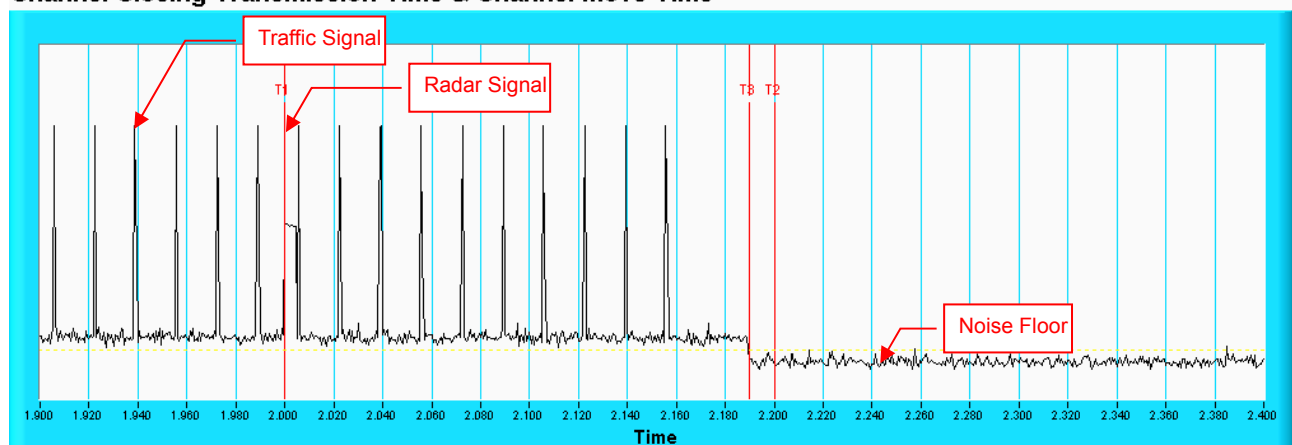
WHDI (40MHz)

Channel Closing Transmission Time & Channel Move Time



Note: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

Channel Closing Transmission Time & Channel Move Time

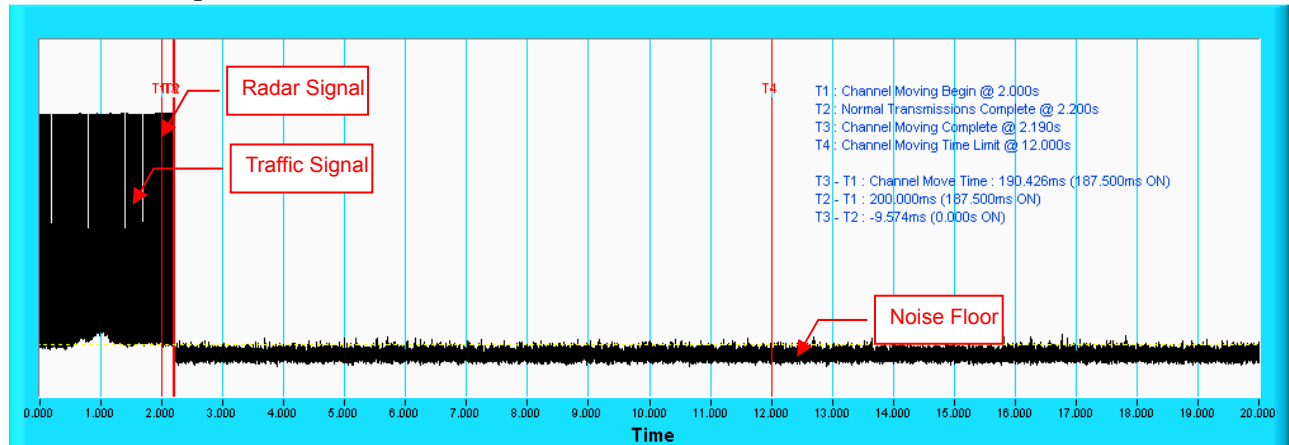


Note: Room-in of the first 500ms after radar signal applied.

Radar signal 3

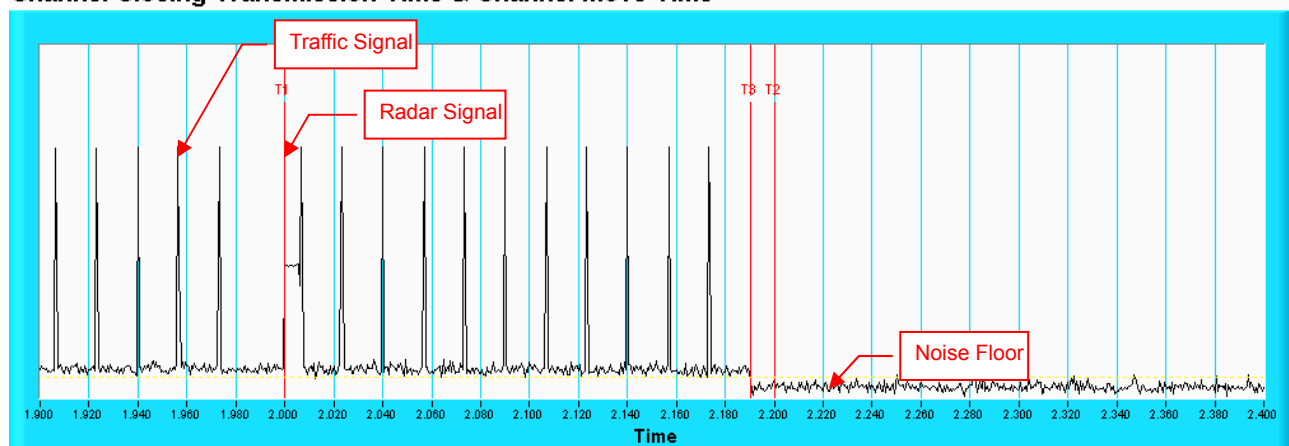
WHDI (40MHz)

Channel Closing Transmission Time & Channel Move Time



Note: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

Channel Closing Transmission Time & Channel Move Time

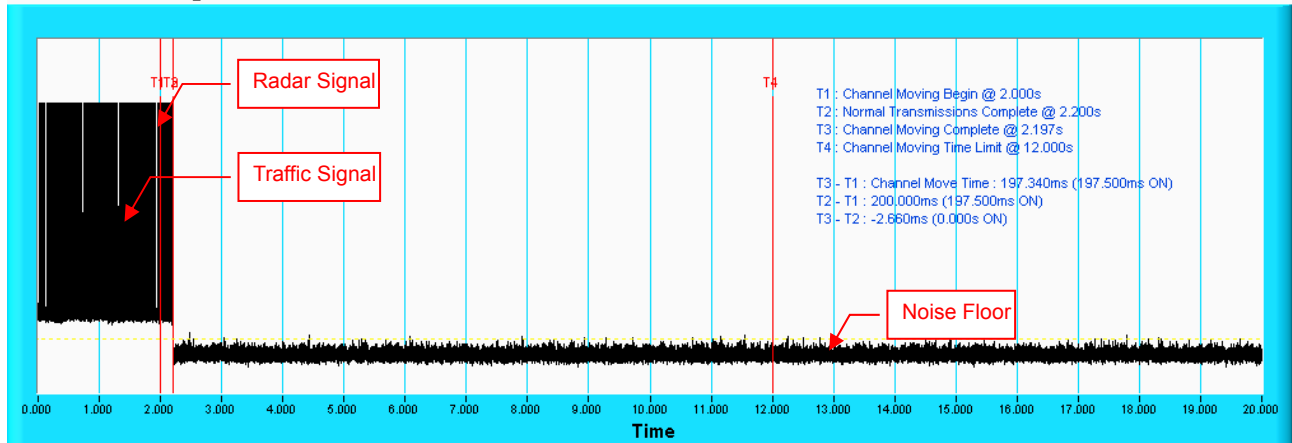


Note: Room-in of the first 500ms after radar signal applied.

Radar signal 4

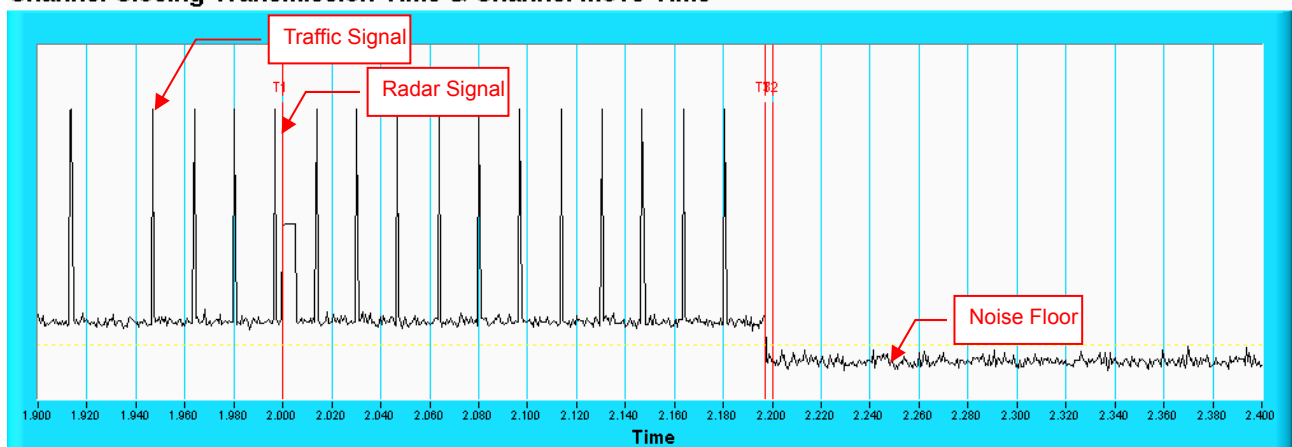
WHDI (40MHz)

Channel Closing Transmission Time & Channel Move Time



Note: T1 denotes the start of Channel Move Time upon the end of the last Radar burst. T2 denotes the data transmission time of 200ms from T1. T3 denotes the end of Channel Move Time. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

Channel Closing Transmission Time & Channel Move Time



Note: Room-in of the first 500ms after radar signal applied.

WHDI (40MHz)

Type 1 Radar Statistical Performances

Trial #	Test Frequency (MHz)	Pulse Repetition Frequency Number (1 to 23)	Pulse Repetition Frequency (Pulse per seconds)	Pulses per Burst	Pulse Repetition Interval (microseconds)	Detection
1	5501	15	1253	67	798	Yes
2	5525	16	1223	65	818	Yes
3	5504	4	1730	92	578	Yes
4	5527	11	1393	74	718	Yes
5	5522	22	1066	57	938	Yes
6	5495	7	1567	83	638	Yes
7	5498	2	1859	99	538	Yes
8	5500	8	1520	81	658	Yes
9	5494	1	1931	102	518	No
10	5526	19	1139	61	878	Yes
11	5524	21	1089	58	918	Yes
12	5507	23	326.2	18	3066	Yes
13	5502	9	1475	78	678	Yes
14	5512	5	1672	89	598	Yes
15	5493	6	1618	86	618	Yes
16	5521		1111	59	900	Yes
17	5509		1024	55	977	Yes
18	5511		625.8	34	1598	Yes
19	5517		730.5	39	1369	Yes
20	5516		1181	63	847	Yes
21	5514		400.6	22	2496	Yes
22	5519		529.4	28	1889	Yes
23	5503		347.6	19	2877	Yes
24	5523		641.4	34	1559	No
25	5510		508.9	27	1965	Yes
26	5518		345.4	19	2895	No
27	5520		580.7	31	1722	Yes
28	5515		786.8	42	1271	Yes
29	5497		808.4	43	1237	Yes
30	5508		517.1	28	1934	Yes

Detection Rate: 90%

Type 2 Radar Statistical Performances

Trial #	Test Frequency (MHz)	Pulses per Burst	Pulse Width(us)	PRI(us)	Detection
1	5493	24	1.7	174	Yes
2	5500	27	3.8	176	Yes
3	5495	28	4	161	Yes
4	5525	28	4.3	226	Yes
5	5523	24	1.9	193	Yes
6	5524	23	1.1	230	Yes
7	5496	29	4.5	198	Yes
8	5494	26	2.9	227	Yes
9	5501	26	2.8	171	Yes
10	5502	27	3.6	221	Yes
11	5498	23	1.1	180	Yes
12	5507	23	1.3	189	Yes
13	5521	25	2.5	204	Yes
14	5520	29	4.5	203	Yes
15	5506	29	5	170	Yes
16	5515	26	3.1	201	Yes
17	5509	24	2.1	218	Yes
18	5503	25	2.6	208	Yes
19	5510	24	1.8	223	Yes
20	5499	23	1.2	220	Yes
21	5516	26	2.9	224	Yes
22	5508	28	4	160	Yes
23	5497	25	2.5	209	Yes
24	5518	23	1	205	Yes
25	5511	27	3.7	151	Yes
26	5504	25	2.5	186	Yes
27	5517	23	1.5	190	Yes
28	5522	23	1.3	185	Yes
29	5505	23	1.2	175	Yes
30	5526	24	1.7	216	Yes
Detection Rate: 100 %					

Type 3 Radar Statistical Performances

Trial #	Test Frequency (MHz)	Pulses per Burst	Pulse Width(us)	PRI(us)	Detection
1	5518	16	6.7	467	No
2	5517	18	8.8	304	Yes
3	5495	18	9	316	No
4	5527	18	9.3	439	Yes
5	5509	16	6.9	420	Yes
6	5508	16	6.1	249	Yes
7	5499	18	9.5	463	Yes
8	5497	17	7.9	258	Yes
9	5501	17	7.8	212	Yes
10	5519	17	8.6	236	Yes
11	5506	16	6.1	474	Yes
12	5504	16	6.3	461	Yes
13	5524	17	7.5	437	Yes
14	5498	18	9.5	287	Yes
15	5513	18	10	395	Yes
16	5496	17	8.1	322	Yes
17	5526	16	7.1	468	Yes
18	5510	17	7.6	255	Yes
19	5522	16	6.8	423	Yes
20	5525	16	6.2	456	No
21	5502	17	7.9	351	Yes
22	5500	18	9	411	Yes
23	5515	17	7.5	279	No
24	5516	16	6	431	Yes
25	5512	17	8.7	324	Yes
26	5493	17	7.5	419	Yes
27	5523	16	6.5	447	Yes
28	5520	16	6.3	481	Yes
29	5511	16	6.2	438	Yes
30	5503	16	6.7	270	Yes
Detection Rate: 86.67 %					

Type 4 Radar Statistical Performances

Trial #	Test Frequency (MHz)	Pulses per Burst	Pulse Width(us)	PRI(us)	Detection
1	5512	12	12.5	467	No
2	5503	15	17.2	304	Yes
3	5510	15	17.8	316	Yes
4	5517	16	18.5	439	Yes
5	5501	13	13.1	420	Yes
6	5505	12	11.3	249	Yes
7	5511	16	18.8	463	Yes
8	5513	14	15.3	258	Yes
9	5493	14	15.1	212	Yes
10	5526	15	16.9	236	Yes
11	5522	12	11.2	474	Yes
12	5520	12	11.7	461	Yes
13	5497	13	14.4	437	No
14	5500	16	18.9	287	No
15	5496	16	19.9	395	Yes
16	5508	14	15.7	322	Yes
17	5498	13	13.4	468	Yes
18	5515	13	14.5	255	Yes
19	5499	13	12.9	423	Yes
20	5504	12	11.5	456	Yes
21	5524	14	15.3	351	Yes
22	5502	15	17.8	411	Yes
23	5519	13	14.3	279	Yes
24	5494	12	11.1	431	Yes
25	5514	15	17	324	Yes
26	5518	13	14.5	419	No
27	5507	12	12.1	447	Yes
28	5521	12	11.7	481	Yes
29	5495	12	11.6	438	Yes
30	5516	12	12.7	270	Yes

Detection Rate: 86.67 %

Type 5 Radar Statistical Performances

Trial #	Minimum Chirp Width(MHz)	Chirp Center Frequency(MHz)	Test Signal Name	Detection
1	6	5510.0	LP_Signal_01	Yes
2	20	5510.0	LP_Signal_02	Yes
3	19	5510.0	LP_Signal_03	Yes
4	18	5510.0	LP_Signal_04	Yes
5	10	5510.0	LP_Signal_05	Yes
6	18	5510.0	LP_Signal_06	Yes
7	10	5510.0	LP_Signal_07	Yes
8	16	5510.0	LP_Signal_08	Yes
9	7	5510.0	LP_Signal_09	Yes
10	16	5510.0	LP_Signal_10	Yes
11	16	5499.77	LP_Signal_11	Yes
12	19	5500.97	LP_Signal_12	Yes
13	13	5498.57	LP_Signal_13	Yes
14	10	5497.37	LP_Signal_14	Yes
15	18	5500.57	LP_Signal_15	Yes
16	12	5498.17	LP_Signal_16	Yes
17	20	5501.37	LP_Signal_17	Yes
18	10	5497.37	LP_Signal_18	Yes
19	12	5498.17	LP_Signal_19	Yes
20	10	5497.37	LP_Signal_20	Yes
21	15	5520.63	LP_Signal_21	Yes
22	9	5523.03	LP_Signal_22	Yes
23	20	5518.63	LP_Signal_23	Yes
24	12	5521.83	LP_Signal_24	Yes
25	11	5522.23	LP_Signal_25	Yes
26	5	5524.63	LP_Signal_26	Yes
27	16	5520.23	LP_Signal_27	Yes
28	19	5519.03	LP_Signal_28	Yes
29	10	5522.63	LP_Signal_29	Yes
30	17	5519.83	LP_Signal_30	Yes

Detection Rate: 100 %

The Long Pulse Radar pattern shown in Appendix A.1

Type 6 Radar Statistical Performances

Trial #	Pulses per Burst	Pulse Width(us)	PRI(us)	Detection
1	9	1	333.3	Yes
2	9	1	333.3	Yes
3	9	1	333.3	Yes
4	9	1	333.3	Yes
5	9	1	333.3	Yes
6	9	1	333.3	Yes
7	9	1	333.3	Yes
8	9	1	333.3	Yes
9	9	1	333.3	Yes
10	9	1	333.3	Yes
11	9	1	333.3	Yes
12	9	1	333.3	Yes
13	9	1	333.3	Yes
14	9	1	333.3	Yes
15	9	1	333.3	Yes
16	9	1	333.3	Yes
17	9	1	333.3	Yes
18	9	1	333.3	Yes
19	9	1	333.3	Yes
20	9	1	333.3	Yes
21	9	1	333.3	Yes
22	9	1	333.3	Yes
23	9	1	333.3	Yes
24	9	1	333.3	Yes
25	9	1	333.3	Yes
26	9	1	333.3	Yes
27	9	1	333.3	Yes
28	9	1	333.3	Yes
29	9	1	333.3	Yes
30	9	1	333.3	Yes

Detection Rate: 100 %

Type 6 Radar Statistical Performances

Trial #	Hopping Frequency Sequence Name	Detection
1	HOP_FREQ_SEQ_01	Yes
2	HOP_FREQ_SEQ_02	Yes
3	HOP_FREQ_SEQ_03	Yes
4	HOP_FREQ_SEQ_04	Yes
5	HOP_FREQ_SEQ_05	Yes
6	HOP_FREQ_SEQ_06	Yes
7	HOP_FREQ_SEQ_07	Yes
8	HOP_FREQ_SEQ_08	Yes
9	HOP_FREQ_SEQ_09	Yes
10	HOP_FREQ_SEQ_10	Yes
11	HOP_FREQ_SEQ_11	Yes
12	HOP_FREQ_SEQ_12	Yes
13	HOP_FREQ_SEQ_13	Yes
14	HOP_FREQ_SEQ_14	Yes
15	HOP_FREQ_SEQ_15	Yes
16	HOP_FREQ_SEQ_16	Yes
17	HOP_FREQ_SEQ_17	Yes
18	HOP_FREQ_SEQ_18	Yes
19	HOP_FREQ_SEQ_19	Yes
20	HOP_FREQ_SEQ_20	Yes
21	HOP_FREQ_SEQ_21	Yes
22	HOP_FREQ_SEQ_22	Yes
23	HOP_FREQ_SEQ_23	Yes
24	HOP_FREQ_SEQ_24	Yes
25	HOP_FREQ_SEQ_25	Yes
26	HOP_FREQ_SEQ_26	Yes
27	HOP_FREQ_SEQ_27	Yes
28	HOP_FREQ_SEQ_28	Yes
29	HOP_FREQ_SEQ_29	Yes
30	HOP_FREQ_SEQ_30	Yes

Detection Rate: 100 %

The Frequency Hopping Radar pattern shown in Appendix A.2

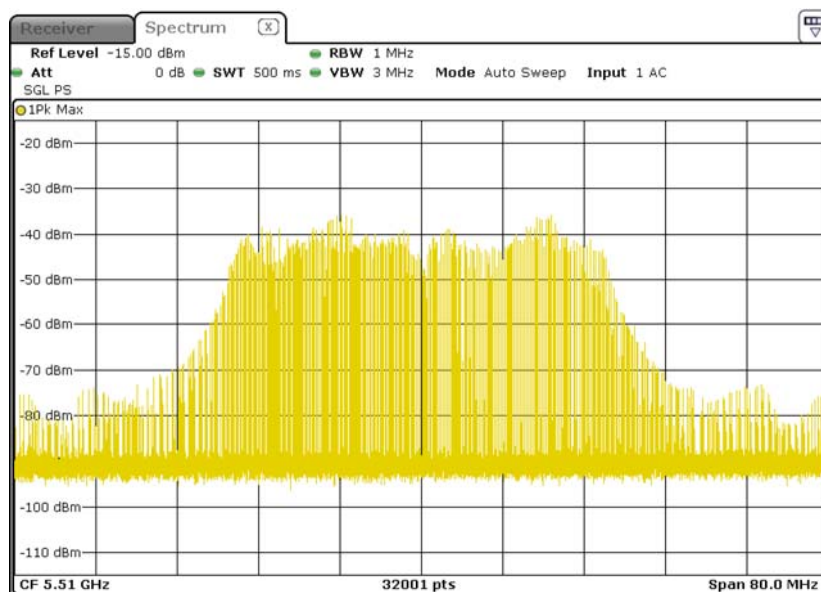
6.2.5 Non-Occupancy Period

Associate test:

During the 30 minutes observation time, UUT did not make any transmissions on a channel after a radar signal was detected on that channel by either the Channel Availability Check or the In-Service Monitoring.

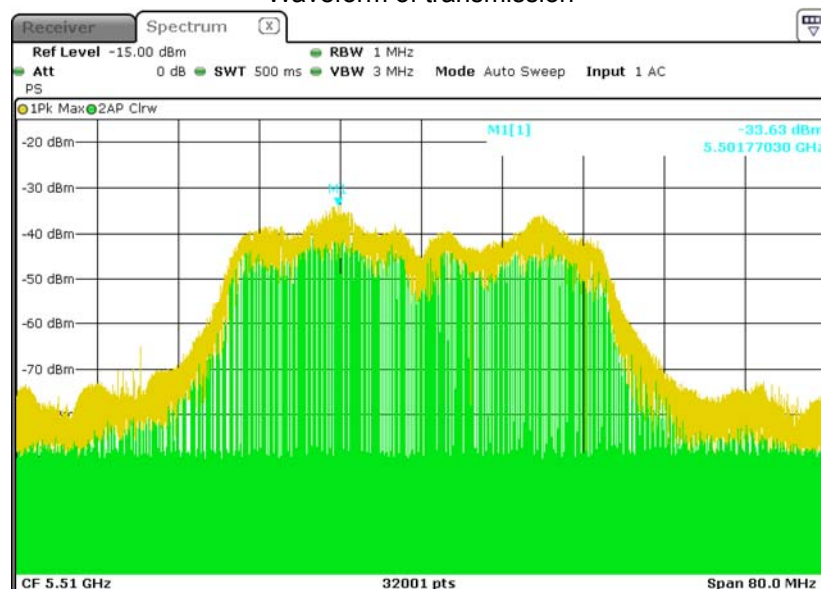
- 1) EUT (Master) links with Client on 5510MHz.

Waveform of EUT links up with Master



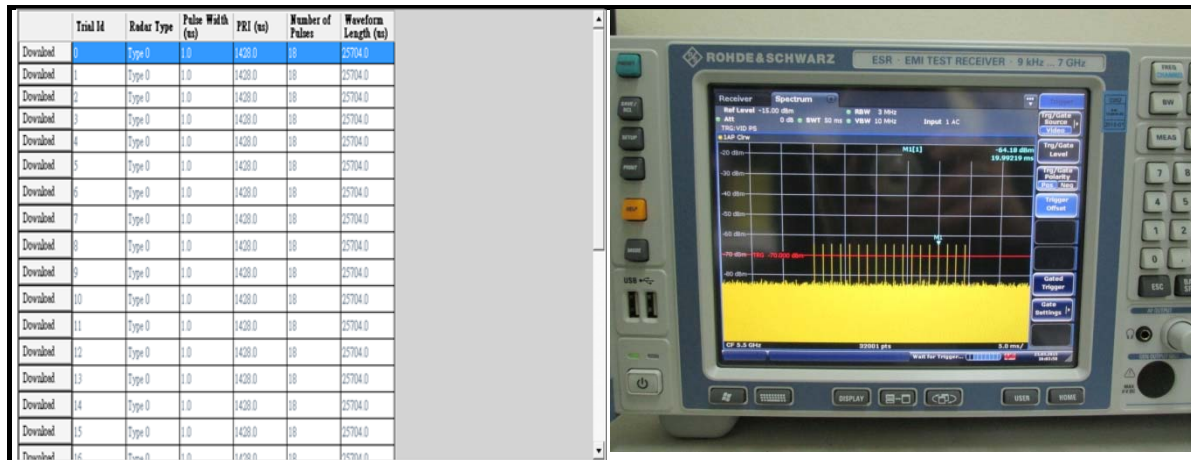
- 2) Client plays specified files via master.

Waveform of transmission

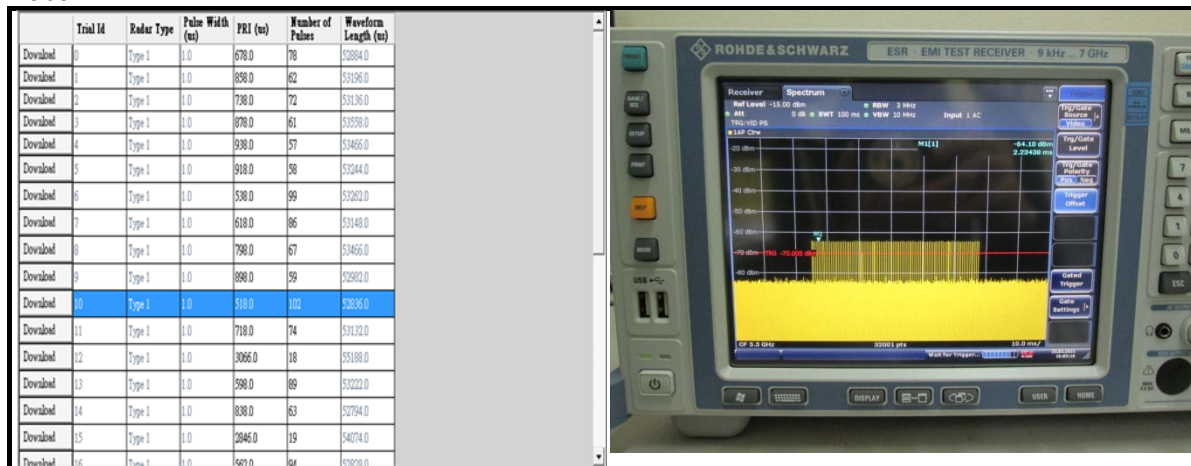


3) Radar signal is applied to the Master device and WiFi traffic signal stop immediately.

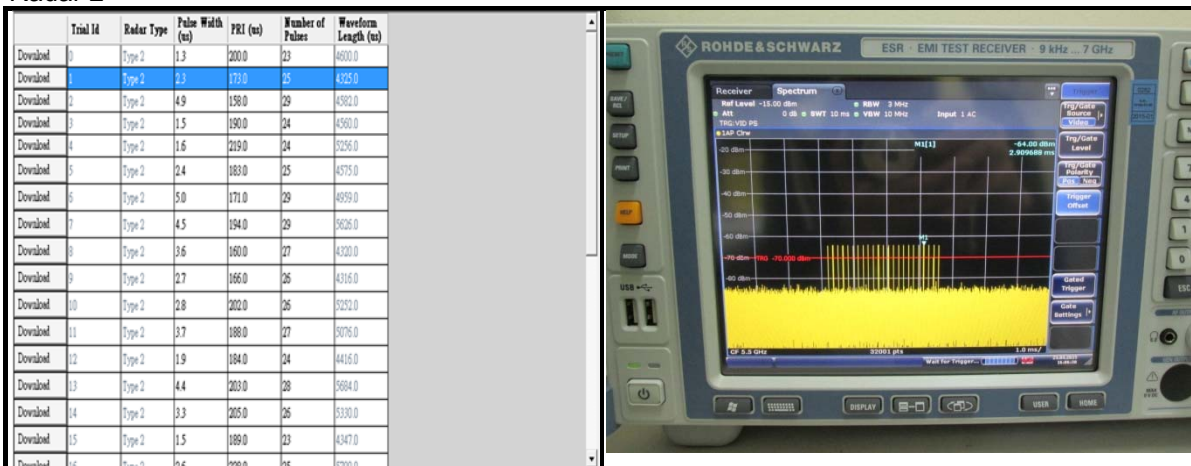
Radar 0



Radar 1

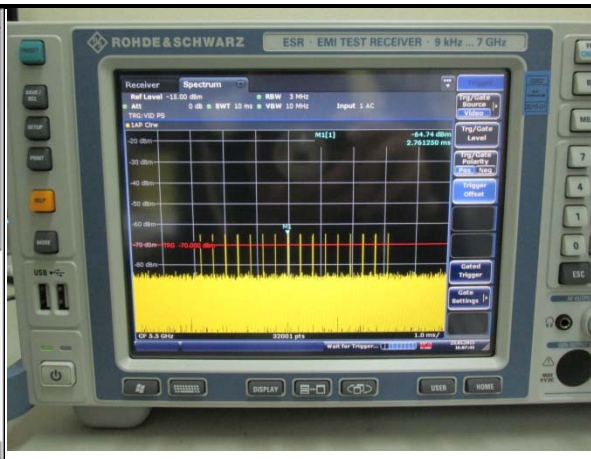


Radar 2



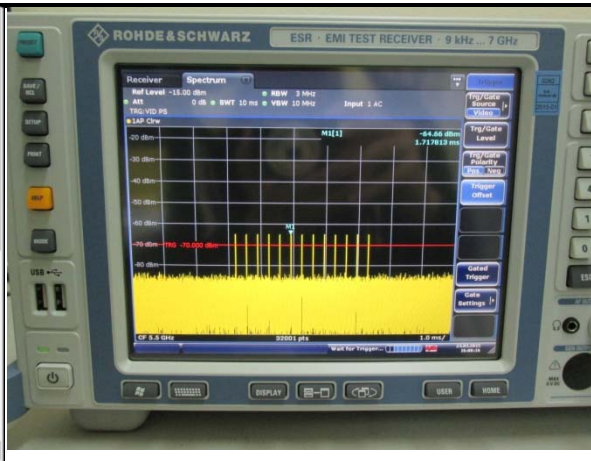
Radar 3

	Trial ID	Radar Type	Pulse Width (ns)	PRI (ns)	Number of Pulses	Waveform Length (ns)
Download	0	Type 3	8.2	355.0	17	6035.0
Download	1	Type 3	6.1	487.0	16	7792.0
Download	2	Type 3	7.1	344.0	16	5504.0
Download	3	Type 3	9.8	288.0	18	5194.0
Download	4	Type 3	8.9	230.0	18	4140.0
Download	5	Type 3	7.9	432.0	17	7344.0
Download	6	Type 3	8.2	207.0	17	3519.0
Download	7	Type 3	7.5	443.0	17	7531.0
Download	8	Type 3	8.1	439.0	17	7463.0
Download	9	Type 3	6.2	223.0	16	3568.0
Download	10	Type 3	8.9	208.0	18	3744.0
Download	11	Type 3	9.6	463.0	18	8334.0
Download	12	Type 3	8.2	441.0	17	7497.0
Download	13	Type 3	7.2	323.0	16	5168.0
Download	14	Type 3	9.5	297.0	18	5346.0
Download	15	Type 3	8.0	412.0	17	7004.0
Download	16	Type 3	10.0	358.0	18	6036.0



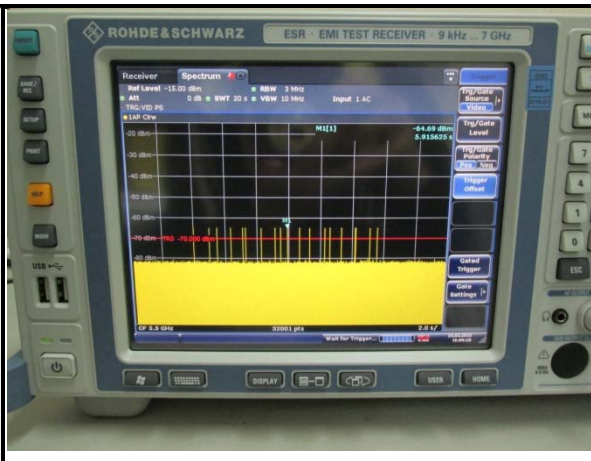
Radar 4

	Trial ID	Radar Type	Pulse Width (ns)	PRI (ns)	Number of Pulses	Waveform Length (ns)
Download	0	Type 4	16.0	355.0	14	4970.0
Download	1	Type 4	11.3	487.0	12	5844.0
Download	2	Type 4	13.5	344.0	13	4472.0
Download	3	Type 4	19.4	288.0	16	4608.0
Download	4	Type 4	17.5	230.0	15	3450.0
Download	5	Type 4	15.3	432.0	14	6048.0
Download	6	Type 4	15.9	207.0	14	2698.0
Download	7	Type 4	14.3	443.0	13	5759.0
Download	8	Type 4	15.8	439.0	14	6146.0
Download	9	Type 4	11.5	223.0	12	2676.0
Download	10	Type 4	17.4	208.0	15	3120.0
Download	11	Type 4	19.0	463.0	16	7408.0
Download	12	Type 4	16.0	441.0	14	6174.0
Download	13	Type 4	13.8	323.0	13	4199.0
Download	14	Type 4	18.9	297.0	16	4752.0
Download	15	Type 4	15.5	412.0	14	5708.0
Download	16	Type 4	10.0	358.0	14	5168.0

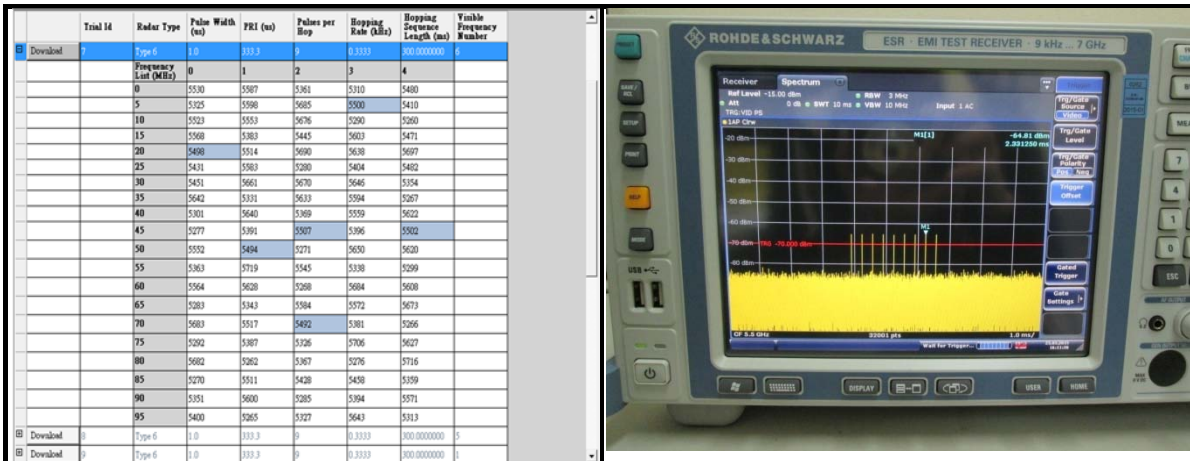


Radar 5

	Trial ID	Radar Type	Number of Bursts	Burst Period (s)	Waveform Length (s)	Center Frequency (GHz)			
Download	0	Type 5	38	0.00000007	12.00000000	5.500000000			
		Burst ID	Burst Offset (ns)	Pulse Width (ns)	Chirp Width (GHz)	Number of Pulses per Burst	PRI-1 (ns)	PRI-2 (ns)	PRI-3 (ns)
		0	145314.0	89.2	17	0	1780.0	1158.0	1569.0
		1	206236.0	94.4	17	0	1000.0	1202.0	1924.0
		2	4480.0	96.9	17	0	1520.0	-	-
		3	124774.0	90.6	17	0	1936.0	1943.0	1734.0
		4	127343.0	52.9	17	0	1866.0	-	-
		5	489356.0	66.7	17	0	1618.0	1820.0	-
		6	646662.0	99.1	17	0	1190.0	1872.0	1826.0
		7	145407.0	88.9	17	0	1357.0	1365.0	1136.0
		8	306271.0	75.5	17	2	1936.0	1699.0	-
		9	467690.0	82.9	17	2	1704.0	1061.0	-
		10	627431.0	94.5	17	0	1287.0	1333.0	1492.0
		11	125722.0	72.1	17	0	1722.0	1576.0	-
		12	286499.0	96.8	17	0	1245.0	1827.0	1280.0
		13	448457.0	51.6	17	0	1875.0	-	-
		14	610772.0	53.0	17	0	1131.0	-	-
		15	105717.0	96.2	17	0	1825.0	1178.0	1470.0
		16	266622.0	80.7	17	0	1869.0	1870.0	-
		17	428794.0	90.6	17	0	1569.0	-	-
Download	0	Type 5	38	0.00000007	12.00000000	5.500000000			
Download	10	Type 5	10	0.00000000	12.00000000	5.494200000			
Download	11	Type 5	11	0.00000000	12.00000000	5.494200000			



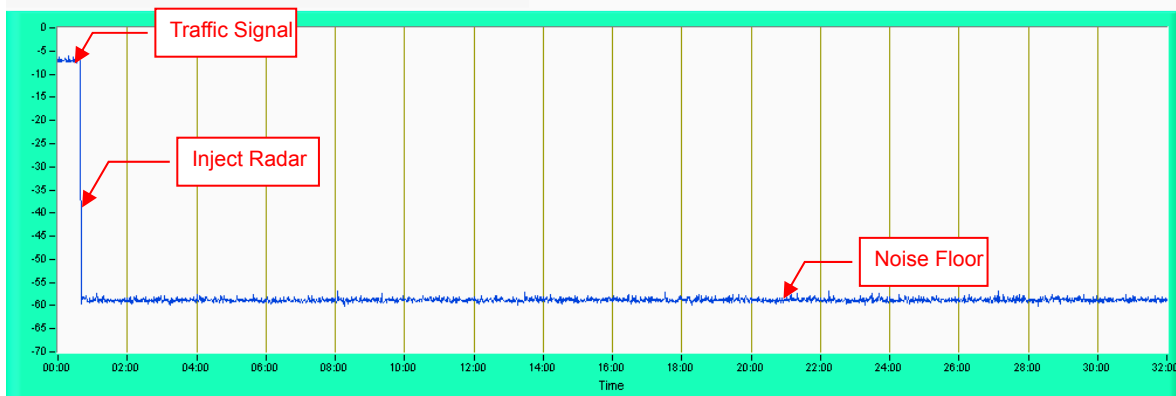
Radar 6



4) 5510MHz has been monitored in 30 minutes period. In this period, no any transmission occurs.

Plot of 30minutes period

WHDI (40MHz)



Note: Test setup are shown on Test setup photo.pdf

6.2.6 Uniform Spreading

The intention of the uniform spreading is to provide, on aggregate, a uniform loading of the spectrum. The EUT randomly select next output channel without any bias or fixed pattern, so that all channels in DFS bands (5250 to 5350MHz and 5470 to 5725 MHz) will be used equally.

Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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The address and road map of all our labs can be found in our web site also.

7 APPENDIX-A

RADAR TEST SIGNAL

A.1 The Long Pulse Radar Pattern

WHDI (40MHz)

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_01

Number of Bursts in Trial: 15

Chrip Center Frequency 5510.0MHz

Burst	Pulses per Burst	Chrip (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	2	6	77.8	1665.0	1477.0	-
2	1	6	51.9	1074.0	-	-
3	1	6	63.8	1584.0	-	-
4	3	6	96.6	1682.0	1786.0	1843.0
5	3	6	85.9	1795.0	1215.0	1729.0
6	2	6	73.7	1198.0	1549.0	-
7	2	6	77.2	1837.0	1819.0	-
8	2	6	68.4	1587.0	1114.0	-
9	2	6	76.7	2000.0	1155.0	-
10	1	6	53.2	1147.0	-	-
11	3	6	85.7	1433.0	1695.0	1394.0
12	3	6	94.3	1670.0	1426.0	1935.0
13	2	6	77.6	1294.0	1671.0	-
14	1	6	65.7	1512.0	-	-
15	3	6	93.5	1444.0	1130.0	1468.0
16						
17						
18						
19						
20						

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_02

Number of Bursts in Trial: 8

Chirp Center Frequency: 5510.0MHz

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	2	20	75.0	1880.0	1527.0	-
2	3	20	99.4	1401.0	1262.0	1257.0
3	2	20	67.4	1531.0	1403.0	-
4	2	20	73.6	1449.0	1041.0	-
5	1	20	65.9	1432.0	-	-
6	3	20	83.8	1356.0	1292.0	1419.0
7	1	20	65.5	1543.0	-	-
8	3	20	98.6	1548.0	1796.0	1728.0
9						
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18						
19						
20						

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_03

Number of Bursts in Trial: 11

Chirp Center Frequency: 5510.0MHz

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	2	19	73.8	1806.0	1538.0	-
2	2	19	69.5	1117.0	1649.0	-
3	1	19	51.9	1651.0	-	-
4	3	19	84.6	1976.0	1032.0	1271.0
5	3	19	95.4	1060.0	1903.0	1388.0
6	2	19	68.0	1368.0	1351.0	-
7	3	19	89.6	1338.0	1514.0	1573.0
8	2	19	81.9	1022.0	1689.0	-
9	3	19	88.3	1810.0	1330.0	1838.0
10	1	19	53.7	1597.0	-	-
11	3	19	91.3	1961.0	1106.0	1001.0
12						
13						
14						
15						
16						
17						
18						
19						
20						

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_04

Number of Bursts in Trial: 20

Chrip Center Frequency: 5510.0MHz

Burst	Pulses per Burst	Chrip (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	2	18	68.1	1339.0	1355.0	-
2	1	18	58.7	1251.0	-	-
3	2	18	75.3	1136.0	1640.0	-
4	1	18	56.4	1753.0	-	-
5	3	18	99.7	1196.0	1708.0	1159.0
6	1	18	57.7	1013.0	-	-
7	1	18	59.5	1072.0	-	-
8	2	18	80.0	1482.0	1369.0	-
9	2	18	82.0	1993.0	1197.0	-
10	2	18	82.8	1883.0	1005.0	-
11	3	18	88.0	1061.0	1928.0	1101.0
12	3	18	93.2	1207.0	1907.0	1223.0
13	2	18	70.4	1526.0	1360.0	-
14	3	18	95.3	1171.0	1955.0	1775.0
15	2	18	81.9	1690.0	1545.0	-
16	3	18	98.5	1975.0	1169.0	1062.0
17	1	18	65.0	1767.0	-	-
18	3	18	85.4	1011.0	1637.0	1425.0
19	3	18	91.6	1878.0	1445.0	1325.0
20	2	18	67.3	1091.0	1218.0	-

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_05

Number of Bursts in Trial: 17

Chirp Center Frequency: 5510.0MHz

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	2	10	67.9	1320.0	1133.0	-
2	1	10	62.3	1957.0	-	-
3	1	10	53.3	1592.0	-	-
4	3	10	90.0	1900.0	1153.0	1346.0
5	2	10	77.1	1166.0	1646.0	-
6	3	10	83.9	1278.0	1232.0	1459.0
7	3	10	89.1	1240.0	1384.0	1939.0
8	2	10	81.8	1833.0	1676.0	-
9	1	10	50.3	1075.0	-	-
10	3	10	87.1	1116.0	1996.0	1756.0
11	2	10	71.3	1225.0	1815.0	-
12	3	10	97.5	1884.0	1465.0	1132.0
13	3	10	90.6	1561.0	1040.0	1354.0
14	3	10	86.3	1596.0	1183.0	1792.0
15	3	10	97.6	1365.0	1073.0	1361.0
16	3	10	84.7	1021.0	1718.0	1854.0
17	3	10	99.7	1150.0	1244.0	1988.0
18						
19						
20						

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_06

Number of Bursts in Trial: 14

Chirp Center Frequency: 5510.0MHz

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	3	18	92.9	1085.0	1564.0	1407.0
2	2	18	67.7	1744.0	1747.0	-
3	1	18	65.8	1092.0	-	-
4	1	18	56.3	1851.0	-	-
5	1	18	53.7	1727.0	-	-
6	3	18	83.5	1679.0	1930.0	1025.0
7	1	18	65.8	1519.0	-	-
8	3	18	85.9	1134.0	1034.0	1808.0
9	2	18	76.3	1606.0	1926.0	-
10	2	18	81.5	1891.0	1714.0	-
11	3	18	89.4	1310.0	1594.0	1827.0
12	1	18	63.4	1568.0	-	-
13	2	18	69.6	1307.0	1925.0	-
14	2	18	74.5	1264.0	1846.0	-
15						
16						
17						
18						
19						
20						

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_07

Number of Bursts in Trial: 15

Chirp Center Frequency: 5510.0MHz

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	3	10	96.6	1182.0	1609.0	1581.0
2	3	10	96.7	1829.0	1799.0	1154.0
3	3	10	86.5	1923.0	1396.0	1865.0
4	2	10	73.3	1908.0	1318.0	-
5	1	10	55.8	1688.0	-	-
6	1	10	55.4	1145.0	-	-
7	3	10	85.3	1336.0	1504.0	1820.0
8	2	10	79.4	1344.0	1893.0	-
9	1	10	65.7	1476.0	-	-
10	2	10	68.6	1008.0	1028.0	-
11	2	10	77.7	1972.0	1835.0	-
12	2	10	79.6	1882.0	1331.0	-
13	3	10	94.9	1830.0	1070.0	1349.0
14	1	10	61.4	1451.0	-	-
15	3	10	90.6	1233.0	1562.0	1887.0
16						
17						
18						
19						
20						

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_08

Number of Bursts in Trial: 12

Chirp Center Frequency: 5510.0MHz

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	1	16	52.6	1210.0	-	-
2	3	16	84.1	1314.0	1725.0	1529.0
3	3	16	97.7	1139.0	1868.0	1805.0
4	3	16	97.3	1341.0	1446.0	1755.0
5	3	16	98.8	1544.0	1386.0	1302.0
6	2	16	72.2	1771.0	1184.0	-
7	2	16	67.6	1175.0	1027.0	-
8	2	16	75.7	1026.0	1871.0	-
9	1	16	60.9	1798.0	-	-
10	1	16	64.2	1138.0	-	-
11	2	16	78.8	1784.0	1604.0	-
12	3	16	87.5	1511.0	1712.0	1683.0
13						
14						
15						
16						
17						
18						
19						
20						

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_09

Number of Bursts in Trial: 14

Chrip Center Frequency: 5510.0MHz

Burst	Pulses per Burst	Chrip (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	1	7	54.1	1415.0	-	-
2	1	7	50.7	1221.0	-	-
3	1	7	52.3	1974.0	-	-
4	3	7	99.8	1558.0	1696.0	1949.0
5	2	7	68.4	1014.0	1099.0	-
6	2	7	80.8	1736.0	1505.0	-
7	1	7	62.5	1778.0	-	-
8	2	7	74.8	1149.0	1204.0	-
9	1	7	50.8	1049.0	-	-
10	1	7	54.0	1417.0	-	-
11	1	7	63.0	1730.0	-	-
12	3	7	91.8	1143.0	1270.0	1347.0
13	2	7	79.3	1274.0	1992.0	-
14	1	7	64.3	1937.0	-	-
15						
16						
17						
18						
19						
20						

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_10

Number of Bursts in Trial: 8

Chirp Center Frequency: 5510.0MHz

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	1	16	63.4	1043.0	-	-
2	1	16	52.0	1863.0	-	-
3	3	16	97.2	1973.0	1605.0	1583.0
4	2	16	78.7	1466.0	1743.0	-
5	2	16	74.2	1280.0	1219.0	-
6	3	16	88.7	1293.0	1934.0	1273.0
7	1	16	54.3	1991.0	-	-
8	3	16	95.4	1580.0	1555.0	1791.0
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_11

Number of Bursts in Trial: 17

Chirp Center Frequency: 5499.77MHz

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	2	16	73.7	1208.0	1497.0	-
2	3	16	97.4	1942.0	1754.0	1613.0
3	3	16	91.7	1999.0	1702.0	1462.0
4	1	16	66.2	1393.0	-	-
5	2	16	70.8	1968.0	1821.0	-
6	1	16	52.3	1740.0	-	-
7	2	16	78.9	1308.0	1984.0	-
8	2	16	70.9	1050.0	1358.0	-
9	2	16	75.6	1437.0	1430.0	-
10	1	16	59.1	1697.0	-	-
11	2	16	77.0	1397.0	1304.0	-
12	2	16	67.9	1803.0	1083.0	-
13	2	16	81.2	1720.0	1932.0	-
14	2	16	78.7	1247.0	1121.0	-
15	1	16	63.3	1634.0	-	-
16	2	16	68.9	1849.0	1423.0	-
17	1	16	59.3	1093.0	-	-
18						
19						
20						

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_12

Number of Bursts in Trial: 19

Chirp Center Frequency: 5500.97MHz

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	3	19	98.9	1381.0	1680.0	1488.0
2	2	19	82.3	1716.0	1855.0	-
3	3	19	86.7	1211.0	1400.0	1919.0
4	3	19	89.7	1861.0	1068.0	1282.0
5	3	19	98.6	1507.0	1194.0	1461.0
6	2	19	71.1	1921.0	1789.0	-
7	1	19	55.9	1947.0	-	-
8	2	19	67.9	1350.0	1372.0	-
9	3	19	84.4	1203.0	1107.0	1443.0
10	1	19	58.8	1715.0	-	-
11	1	19	65.6	1017.0	-	-
12	2	19	78.5	1911.0	1704.0	-
13	2	19	82.3	1845.0	1686.0	-
14	3	19	90.1	1938.0	1071.0	1266.0
15	3	19	90.2	1989.0	1089.0	1950.0
16	2	19	83.1	1943.0	1406.0	-
17	1	19	58.8	1742.0	-	-
18	2	19	77.0	1187.0	1657.0	-
19	1	19	55.0	1012.0	-	-
20						

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_13

Number of Bursts in Trial: 15

Chirp Center Frequency: 5498.57MHz

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	1	13	58.1	1929.0	-	-
2	1	13	52.1	1910.0	-	-
3	1	13	59.9	1971.0	-	-
4	1	13	60.2	1812.0	-	-
5	3	13	95.9	1399.0	1906.0	1608.0
6	2	13	79.9	1626.0	1859.0	-
7	2	13	78.5	1238.0	1917.0	-
8	1	13	53.8	1763.0	-	-
9	1	13	64.7	1800.0	-	-
10	1	13	61.4	1390.0	-	-
11	2	13	83.2	1692.0	1858.0	-
12	3	13	84.7	1533.0	1677.0	1638.0
13	3	13	88.7	1703.0	1528.0	1058.0
14	2	13	78.3	1258.0	1951.0	-
15	2	13	69.3	1731.0	1717.0	-
16						
17						
18						
19						
20						

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_14

Number of Bursts in Trial: 12

Chirp Center Frequency: 5497.37MHz

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	2	10	75.3	1994.0	1612.0	-
2	1	10	56.3	1456.0	-	-
3	2	10	67.7	1617.0	1185.0	-
4	1	10	55.6	1337.0	-	-
5	2	10	75.2	1421.0	1267.0	-
6	2	10	76.3	1359.0	1305.0	-
7	3	10	85.7	1547.0	1362.0	1924.0
8	3	10	98.4	1873.0	1550.0	1249.0
9	3	10	86.4	1779.0	1439.0	1046.0
10	3	10	93.6	1059.0	1031.0	1452.0
11	1	10	63.3	1328.0	-	-
12	3	10	92.4	1412.0	1673.0	1322.0
13						
14						
15						
16						
17						
18						
19						
20						

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_15

Number of Bursts in Trial: 19

Chirp Center Frequency: 5500.57MHz

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	3	18	93.3	1983.0	1912.0	1535.0
2	2	18	69.1	1102.0	1794.0	-
3	3	18	86.9	1044.0	1152.0	1148.0
4	3	18	84.9	1894.0	1948.0	1118.0
5	2	18	72.3	1094.0	1916.0	-
6	1	18	51.7	1447.0	-	-
7	1	18	58.3	1429.0	-	-
8	1	18	60.8	1979.0	-	-
9	1	18	57.1	1641.0	-	-
10	3	18	88.9	1886.0	1964.0	1489.0
11	2	18	72.0	1909.0	1297.0	-
12	3	18	90.9	1261.0	1566.0	1370.0
13	1	18	59.8	1552.0	-	-
14	2	18	70.0	1759.0	1291.0	-
15	2	18	67.2	1625.0	1881.0	-
16	3	18	91.2	1382.0	1832.0	1661.0
17	1	18	56.5	1483.0	-	-
18	1	18	51.2	1237.0	-	-
19	2	18	74.1	1471.0	1245.0	-
20						

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_16

Number of Bursts in Trial: 14

Chirp Center Frequency: 5498.17MHz

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	2	12	76.9	1110.0	1140.0	-
2	1	12	50.2	1316.0	-	-
3	1	12	62.9	1520.0	-	-
4	1	12	64.7	1902.0	-	-
5	3	12	83.8	1410.0	1097.0	1621.0
6	1	12	65.4	1944.0	-	-
7	1	12	53.2	1024.0	-	-
8	1	12	51.7	1603.0	-	-
9	2	12	78.7	1804.0	1168.0	-
10	2	12	72.4	1030.0	1343.0	-
11	1	12	53.8	1327.0	-	-
12	2	12	73.6	1524.0	1553.0	-
13	2	12	66.7	1722.0	1122.0	-
14	2	12	82.5	1404.0	1019.0	-
15						
16						
17						
18						
19						
20						

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_17

Number of Bursts in Trial: 20

Chirp Center Frequency: 5501.37MHz

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	3	20	87.6	1565.0	1055.0	1840.0
2	3	20	85.2	1735.0	1541.0	1408.0
3	3	20	84.8	1534.0	1889.0	1463.0
4	2	20	77.9	1749.0	1460.0	-
5	2	20	76.5	1518.0	1485.0	-
6	1	20	60.9	1540.0	-	-
7	2	20	83.0	1080.0	1010.0	-
8	2	20	80.4	1824.0	1752.0	-
9	2	20	67.5	1764.0	1181.0	-
10	1	20	62.1	1495.0	-	-
11	3	20	86.4	1773.0	1966.0	1263.0
12	3	20	84.3	1593.0	1188.0	1788.0
13	2	20	76.9	1226.0	1537.0	-
14	3	20	95.8	1192.0	1298.0	1844.0
15	1	20	55.2	1644.0	-	-
16	1	20	59.0	1402.0	-	-
17	3	20	94.5	1296.0	1700.0	1283.0
18	3	20	91.9	1970.0	1978.0	1165.0
19	3	20	85.2	1732.0	1551.0	1189.0
20	2	20	69.5	1038.0	1224.0	-

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_18

Number of Bursts in Trial: 12

Chrip Center Frequency: 5497.37MHz

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	3	10	86.4	1259.0	1918.0	1455.0
2	3	10	92.2	1598.0	1719.0	1895.0
3	2	10	80.4	1816.0	1899.0	-
4	1	10	54.3	1335.0	-	-
5	1	10	53.1	1303.0	-	-
6	2	10	69.4	1503.0	1546.0	-
7	2	10	69.1	1279.0	1639.0	-
8	3	10	100.0	1375.0	1438.0	1595.0
9	2	10	79.6	1239.0	1705.0	-
10	3	10	88.4	1374.0	1579.0	1623.0
11	1	10	53.3	1016.0	-	-
12	1	10	65.3	1709.0	-	-
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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_19

Number of Bursts in Trial: 14

Chirp Center Frequency: 5498.17MHz

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	1	12	55.3	1920.0	-	-
2	1	12	58.3	1797.0	-	-
3	2	12	72.3	1610.0	1039.0	-
4	3	12	84.8	1131.0	1761.0	1721.0
5	2	12	82.5	1875.0	1431.0	-
6	1	12	63.3	1095.0	-	-
7	2	12	80.0	1119.0	1913.0	-
8	3	12	90.3	1660.0	1853.0	1123.0
9	3	12	91.1	1539.0	1783.0	1172.0
10	3	12	96.6	1525.0	1036.0	1385.0
11	2	12	82.7	1710.0	1990.0	-
12	1	12	50.7	1234.0	-	-
13	2	12	78.4	1047.0	1109.0	-
14	3	12	99.5	1299.0	1965.0	1869.0
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19						
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Long Pulse Radar Test Signal
 Test Signal Name: LP_Signal_20
 Number of Bursts in Trial: 12
 Chrip Center Frequency: 5497.37MHz

Burst	Pulses per Burst	Chrip (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	3	10	88.6	1501.0	1067.0	1927.0
2	1	10	57.4	1723.0	-	-
3	3	10	96.6	1086.0	1658.0	1324.0
4	2	10	69.7	1751.0	1945.0	-
5	2	10	77.9	1642.0	1317.0	-
6	1	10	62.0	1866.0	-	-
7	3	10	88.4	1997.0	1077.0	1366.0
8	3	10	97.3	1790.0	1896.0	1367.0
9	3	10	96.2	1391.0	1787.0	1672.0
10	3	10	95.4	1020.0	1892.0	1414.0
11	1	10	54.8	1084.0	-	-
12	2	10	80.4	1850.0	1436.0	-
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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_21

Number of Bursts in Trial: 16

Chirp Center Frequency: 5520.63MHz

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	2	15	74.7	1619.0	1611.0	-
2	1	15	57.1	1560.0	-	-
3	3	15	91.9	1392.0	1475.0	1276.0
4	2	15	83.1	1809.0	1772.0	-
5	1	15	50.7	1003.0	-	-
6	2	15	79.2	1574.0	1600.0	-
7	1	15	58.7	1186.0	-	-
8	2	15	71.0	1521.0	1567.0	-
9	2	15	79.0	1777.0	1960.0	-
10	2	15	68.5	1284.0	1428.0	-
11	2	15	73.5	1904.0	1352.0	-
12	2	15	70.5	1864.0	1115.0	-
13	2	15	76.6	1045.0	1300.0	-
14	2	15	81.2	1160.0	1675.0	-
15	1	15	61.8	1277.0	-	-
16	3	15	94.9	1450.0	1206.0	1860.0
17						
18						
19						
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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_22

Number of Bursts in Trial: 12

Chirp Center Frequency: 5523.03MHz

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	2	9	78.5	1653.0	1698.0	-
2	3	9	89.8	1174.0	1962.0	1167.0
3	1	9	59.4	1982.0	-	-
4	2	9	79.6	1633.0	1890.0	-
5	2	9	76.0	1112.0	1811.0	-
6	1	9	53.6	1144.0	-	-
7	2	9	80.9	1220.0	1053.0	-
8	1	9	61.6	1724.0	-	-
9	1	9	53.4	1901.0	-	-
10	1	9	59.9	1379.0	-	-
11	1	9	60.4	1453.0	-	-
12	3	9	91.4	1768.0	1726.0	1227.0
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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_23

Number of Bursts in Trial: 20

Chirp Center Frequency: 5518.63MHz

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	2	20	77.0	1191.0	1363.0	-
2	1	20	58.1	1248.0	-	-
3	1	20	62.1	1836.0	-	-
4	2	20	76.9	1334.0	1236.0	-
5	2	20	80.0	1914.0	1852.0	-
6	1	20	52.0	1701.0	-	-
7	3	20	88.6	1693.0	1995.0	1905.0
8	2	20	72.9	1922.0	1387.0	-
9	3	20	98.5	1839.0	1746.0	1389.0
10	1	20	57.9	1193.0	-	-
11	3	20	95.9	1659.0	1870.0	1066.0
12	1	20	53.5	1162.0	-	-
13	3	20	92.0	1745.0	1654.0	1458.0
14	1	20	57.3	1834.0	-	-
15	2	20	70.5	1684.0	1586.0	-
16	2	20	70.0	1042.0	1664.0	-
17	3	20	84.0	1765.0	1630.0	1176.0
18	2	20	76.1	1557.0	1057.0	-
19	3	20	93.2	1985.0	1018.0	1340.0
20	3	20	96.8	1760.0	1614.0	1817.0

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_24

Number of Bursts in Trial: 14

Chirp Center Frequency: 5521.83MHz

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	1	12	50.1	1841.0	-	-
2	3	12	93.5	1590.0	1081.0	1413.0
3	2	12	68.8	1707.0	1577.0	-
4	1	12	56.3	1056.0	-	-
5	3	12	86.0	1953.0	1108.0	1987.0
6	2	12	75.2	1572.0	1536.0	-
7	1	12	54.4	1517.0	-	-
8	2	12	71.1	1329.0	1243.0	-
9	2	12	76.2	1940.0	1770.0	-
10	2	12	80.2	1098.0	1209.0	-
11	2	12	79.7	1588.0	1214.0	-
12	3	12	90.9	1615.0	1862.0	1601.0
13	2	12	68.7	1377.0	1441.0	-
14	2	12	67.4	1872.0	1313.0	-
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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_25

Number of Bursts in Trial: 13

Chirp Center Frequency: 5522.23MHz

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	3	11	94.0	1643.0	1748.0	1941.0
2	2	11	70.8	1177.0	1201.0	-
3	1	11	56.3	1006.0	-	-
4	3	11	96.7	1230.0	1163.0	1332.0
5	3	11	90.6	1217.0	1582.0	1498.0
6	2	11	74.5	1569.0	1281.0	-
7	3	11	92.6	1065.0	1669.0	1222.0
8	3	11	89.0	1493.0	1135.0	1380.0
9	3	11	96.5	1607.0	1822.0	1602.0
10	2	11	70.5	1141.0	1178.0	-
11	3	11	94.0	1009.0	1629.0	1956.0
12	1	11	55.8	1290.0	-	-
13	3	11	87.7	1435.0	1963.0	1164.0
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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_26

Number of Bursts in Trial: 8

Chirp Center Frequency: 5524.63MHz

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	2	5	68.6	1306.0	1161.0	-
2	2	5	83.1	1420.0	1315.0	-
3	1	5	60.9	1687.0	-	-
4	2	5	77.7	1776.0	1158.0	-
5	2	5	77.4	1793.0	1510.0	-
6	2	5	66.8	1576.0	1323.0	-
7	1	5	63.7	1333.0	-	-
8	3	5	91.2	1409.0	1681.0	1275.0
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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_27

Number of Bursts in Trial: 17

Chirp Center Frequency: 5520.23MHz

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	3	16	83.6	1632.0	1195.0	1000.0
2	3	16	89.4	1173.0	1627.0	1656.0
3	1	16	55.8	1532.0	-	-
4	3	16	90.9	1981.0	1554.0	1998.0
5	1	16	54.7	1825.0	-	-
6	3	16	97.7	1734.0	1202.0	1250.0
7	2	16	67.5	1571.0	1434.0	-
8	3	16	96.7	1589.0	1469.0	1268.0
9	2	16	68.3	1750.0	1954.0	-
10	2	16	78.3	1591.0	1082.0	-
11	1	16	55.0	1427.0	-	-
12	3	16	84.9	1129.0	1936.0	1199.0
13	2	16	74.6	1959.0	1856.0	-
14	1	16	63.3	1885.0	-	-
15	3	16	99.8	1035.0	1515.0	1120.0
16	1	16	63.6	1647.0	-	-
17	3	16	87.3	1931.0	1051.0	1831.0
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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_28

Number of Bursts in Trial: 19

Chirp Center Frequency: 5519.03MHz

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	3	19	85.6	1946.0	1078.0	1015.0
2	2	19	68.6	1029.0	1780.0	-
3	1	19	54.2	1111.0	-	-
4	1	19	61.2	1104.0	-	-
5	3	19	97.1	1157.0	1969.0	1100.0
6	3	19	98.3	1142.0	1699.0	1622.0
7	1	19	62.4	1655.0	-	-
8	2	19	80.2	1126.0	1769.0	-
9	3	19	87.5	1216.0	1448.0	1179.0
10	3	19	85.8	1847.0	1348.0	1472.0
11	3	19	88.1	1023.0	1124.0	1631.0
12	1	19	65.3	1848.0	-	-
13	1	19	52.5	1470.0	-	-
14	1	19	52.3	1312.0	-	-
15	2	19	74.1	1915.0	1200.0	-
16	1	19	54.9	1479.0	-	-
17	2	19	76.2	1376.0	1502.0	-
18	1	19	60.4	1758.0	-	-
19	2	19	81.5	1491.0	1103.0	-
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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_29

Number of Bursts in Trial: 12

Chirp Center Frequency: 5522.63MHz

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	1	10	50.5	1857.0	-	-
2	1	10	55.7	1246.0	-	-
3	3	10	85.8	1774.0	1002.0	1967.0
4	2	10	76.9	1125.0	1474.0	-
5	2	10	75.1	1254.0	1052.0	-
6	3	10	92.3	1180.0	1486.0	1492.0
7	2	10	78.1	1301.0	1757.0	-
8	3	10	92.2	1898.0	1252.0	1713.0
9	3	10	89.0	1260.0	1706.0	1411.0
10	2	10	70.9	1578.0	1620.0	-
11	1	10	63.1	1782.0	-	-
12	1	10	55.3	1522.0	-	-
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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_30

Number of Bursts in Trial: 18

Chirp Center Frequency: 5519.83MHz

Burst	Pulses per Burst	Chirp (MHz)	Pulse Width(us)	PRI-1 (us)	PRI-2 (us)	PRI-3 (us)
1	3	17	83.4	1454.0	1205.0	1801.0
2	3	17	97.3	1319.0	1826.0	1635.0
3	3	17	90.4	1079.0	1986.0	1674.0
4	3	17	91.8	1563.0	1151.0	1802.0
5	3	17	98.2	1876.0	1977.0	1766.0
6	1	17	59.5	1952.0	-	-
7	2	17	80.0	1253.0	1137.0	-
8	3	17	86.5	1054.0	1128.0	1828.0
9	3	17	91.1	1105.0	1599.0	1442.0
10	3	17	93.5	1867.0	1373.0	1087.0
11	1	17	60.7	1033.0	-	-
12	2	17	67.2	1288.0	1405.0	-
13	1	17	61.8	1585.0	-	-
14	2	17	79.4	1933.0	1667.0	-
15	2	17	81.4	1096.0	1464.0	-
16	1	17	65.7	1496.0	-	-
17	2	17	76.0	1733.0	1255.0	-
18	2	17	81.0	1326.0	1668.0	-
19						

A.2 The Frequency Hopping Radar pattern

WHDI (40MHz)

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_01

SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)
1	5.603	2	5.405	3	5.498	4	5.670
5	5.630	6	5.712	7	5.653	8	5.285
9	5.399	10	5.541	11	5.704	12	5.323
13	5.532	14	5.366	15	5.410	16	5.581
17	5.612	18	5.467	19	5.312	20	5.554
21	5.520	22	5.551	23	5.575	24	5.448
25	5.414	26	5.598	27	5.354	28	5.708
29	5.332	30	5.288	31	5.310	32	5.456
33	5.397	34	5.361	35	5.390	36	5.380
37	5.620	38	5.652	39	5.666	40	5.457
41	5.296	42	5.631	43	5.411	44	5.470
45	5.526	46	5.472	47	5.628	48	5.375
49	5.649	50	5.656	51	5.408	52	5.393
53	5.514	54	5.348	55	5.523	56	5.709
57	5.311	58	5.284	59	5.552	60	5.427
61	5.255	62	5.395	63	5.536	64	5.626
65	5.389	66	5.297	67	5.679	68	5.545
69	5.496	70	5.617	71	5.283	72	5.508
73	5.299	74	5.319	75	5.624	76	5.440
77	5.677	78	5.643	79	5.558	80	5.252
81	5.671	82	5.378	83	5.680	84	5.547
85	5.683	86	5.453	87	5.466	88	5.471
89	5.548	90	5.356	91	5.486	92	5.684
93	5.669	94	5.349	95	5.504	96	5.641
97	5.495	98	5.578	99	5.702	100	5.706

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_02

SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)
1	5.328	2	5.655	3	5.570	4	5.291
5	5.485	6	5.342	7	5.365	8	5.720
9	5.647	10	5.264	11	5.362	12	5.403
13	5.392	14	5.284	15	5.363	16	5.461
17	5.346	18	5.381	19	5.598	20	5.528
21	5.640	22	5.315	23	5.500	24	5.539
25	5.531	26	5.459	27	5.603	28	5.372
29	5.499	30	5.263	31	5.329	32	5.366
33	5.431	34	5.586	35	5.536	36	5.266
37	5.376	38	5.654	39	5.701	40	5.285
41	5.699	42	5.327	43	5.450	44	5.567
45	5.680	46	5.581	47	5.270	48	5.633
49	5.676	50	5.353	51	5.456	52	5.454
53	5.446	54	5.532	55	5.665	56	5.443
57	5.432	58	5.371	59	5.269	60	5.559
61	5.386	62	5.535	63	5.308	64	5.451
65	5.276	66	5.718	67	5.719	68	5.287
69	5.636	70	5.292	71	5.490	72	5.700
73	5.303	74	5.569	75	5.489	76	5.364
77	5.564	78	5.335	79	5.340	80	5.326
81	5.677	82	5.375	83	5.664	84	5.427
85	5.538	86	5.509	87	5.420	88	5.344
89	5.462	90	5.682	91	5.565	92	5.691
93	5.355	94	5.687	95	5.652	96	5.352
97	5.416	98	5.286	99	5.684	100	5.425

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_03

SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)
1	5.715	2	5.431	3	5.262	4	5.608
5	5.436	6	5.354	7	5.555	8	5.545
9	5.322	10	5.379	11	5.513	12	5.254
13	5.468	14	5.449	15	5.470	16	5.616
17	5.287	18	5.393	19	5.560	20	5.256
21	5.689	22	5.647	23	5.707	24	5.413
25	5.364	26	5.445	27	5.485	28	5.615
29	5.566	30	5.610	31	5.359	32	5.723
33	5.629	34	5.312	35	5.296	36	5.341
37	5.400	38	5.611	39	5.475	40	5.463
41	5.625	42	5.412	43	5.573	44	5.434
45	5.457	46	5.540	47	5.264	48	5.496
49	5.706	50	5.724	51	5.597	52	5.299
53	5.324	54	5.539	55	5.455	56	5.547
57	5.542	58	5.631	59	5.367	60	5.363
61	5.601	62	5.714	63	5.590	64	5.365
65	5.578	66	5.453	67	5.416	68	5.471
69	5.698	70	5.323	71	5.605	72	5.635
73	5.537	74	5.352	75	5.339	76	5.378
77	5.317	78	5.257	79	5.717	80	5.637
81	5.654	82	5.361	83	5.511	84	5.510
85	5.380	86	5.594	87	5.699	88	5.600
89	5.648	90	5.683	91	5.671	92	5.283
93	5.684	94	5.508	95	5.337	96	5.342
97	5.617	98	5.278	99	5.398	100	5.497

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_04

SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)
1	5.267	2	5.612	3	5.554	4	5.569
5	5.698	6	5.718	7	5.288	8	5.716
9	5.621	10	5.723	11	5.322	12	5.511
13	5.570	14	5.683	15	5.721	16	5.530
17	5.508	18	5.451	19	5.416	20	5.521
21	5.501	22	5.460	23	5.527	24	5.699
25	5.363	26	5.470	27	5.304	28	5.623
29	5.453	30	5.426	31	5.441	32	5.579
33	5.398	34	5.669	35	5.333	36	5.468
37	5.557	38	5.517	39	5.665	40	5.610
41	5.448	42	5.629	43	5.380	44	5.262
45	5.597	46	5.285	47	5.318	48	5.266
49	5.270	50	5.381	51	5.315	52	5.401
53	5.463	54	5.298	55	5.607	56	5.700
57	5.711	58	5.417	59	5.717	60	5.360
61	5.429	62	5.654	63	5.524	64	5.496
65	5.445	66	5.499	67	5.280	68	5.386
69	5.351	70	5.687	71	5.584	72	5.356
73	5.661	74	5.589	75	5.663	76	5.657
77	5.478	78	5.659	79	5.389	80	5.513
81	5.555	82	5.458	83	5.502	84	5.420
85	5.549	86	5.690	87	5.641	88	5.648
89	5.452	90	5.473	91	5.542	92	5.588
93	5.632	94	5.439	95	5.250	96	5.348
97	5.466	98	5.541	99	5.481	100	5.562

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_05

SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)
1	5.538	2	5.423	3	5.481	4	5.307
5	5.357	6	5.593	7	5.615	8	5.404
9	5.711	10	5.490	11	5.550	12	5.416
13	5.519	14	5.541	15	5.339	16	5.612
17	5.699	18	5.653	19	5.350	20	5.369
21	5.373	22	5.656	23	5.672	24	5.688
25	5.403	26	5.522	27	5.665	28	5.675
29	5.297	30	5.402	31	5.588	32	5.673
33	5.421	34	5.512	35	5.537	36	5.715
37	5.299	38	5.686	39	5.263	40	5.679
41	5.391	42	5.313	43	5.480	44	5.561
45	5.523	46	5.389	47	5.692	48	5.569
49	5.556	50	5.578	51	5.425	52	5.517
53	5.475	54	5.532	55	5.255	56	5.375
57	5.349	58	5.436	59	5.424	60	5.271
61	5.390	62	5.585	63	5.652	64	5.486
65	5.722	66	5.280	67	5.554	68	5.514
69	5.587	70	5.683	71	5.321	72	5.547
73	5.590	74	5.432	75	5.548	76	5.657
77	5.279	78	5.693	79	5.671	80	5.539
81	5.438	82	5.301	83	5.544	84	5.670
85	5.346	86	5.463	87	5.394	88	5.567
89	5.526	90	5.434	91	5.467	92	5.611
93	5.295	94	5.647	95	5.602	96	5.318
97	5.714	98	5.649	99	5.695	100	5.630

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_06

SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)
1	5.527	2	5.604	3	5.380	4	5.393
5	5.280	6	5.665	7	5.273	8	5.473
9	5.566	10	5.647	11	5.694	12	5.645
13	5.528	14	5.359	15	5.369	16	5.564
17	5.497	18	5.669	19	5.508	20	5.459
21	5.342	22	5.563	23	5.531	24	5.605
25	5.322	26	5.436	27	5.394	28	5.611
29	5.295	30	5.441	31	5.622	32	5.469
33	5.652	34	5.638	35	5.308	36	5.375
37	5.374	38	5.309	39	5.439	40	5.626
41	5.688	42	5.345	43	5.514	44	5.646
45	5.602	46	5.666	47	5.254	48	5.271
49	5.347	50	5.470	51	5.408	52	5.700
53	5.467	54	5.480	55	5.337	56	5.673
57	5.506	58	5.417	59	5.512	60	5.348
61	5.317	62	5.621	63	5.368	64	5.557
65	5.722	66	5.266	67	5.363	68	5.678
69	5.305	70	5.485	71	5.352	72	5.668
73	5.720	74	5.509	75	5.403	76	5.460
77	5.351	78	5.556	79	5.259	80	5.629
81	5.454	82	5.723	83	5.291	84	5.356
85	5.496	86	5.681	87	5.376	88	5.689
89	5.461	90	5.711	91	5.381	92	5.279
93	5.267	94	5.533	95	5.367	96	5.361
97	5.468	98	5.389	99	5.261	100	5.357

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_07

SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)
1	5.273	2	5.275	3	5.630	4	5.277
5	5.532	6	5.396	7	5.342	8	5.379
9	5.283	10	5.475	11	5.423	12	5.571
13	5.516	14	5.382	15	5.467	16	5.429
17	5.537	18	5.386	19	5.678	20	5.544
21	5.657	22	5.527	23	5.340	24	5.470
25	5.440	26	5.332	27	5.406	28	5.373
29	5.299	30	5.385	31	5.314	32	5.255
33	5.503	34	5.507	35	5.335	36	5.476
37	5.310	38	5.383	39	5.337	40	5.518
41	5.464	42	5.674	43	5.560	44	5.322
45	5.631	46	5.446	47	5.270	48	5.708
49	5.590	50	5.365	51	5.591	52	5.706
53	5.318	54	5.402	55	5.703	56	5.662
57	5.457	58	5.414	59	5.278	60	5.308
61	5.569	62	5.407	63	5.426	64	5.376
65	5.321	66	5.384	67	5.381	68	5.542
69	5.558	70	5.472	71	5.684	72	5.553
73	5.306	74	5.401	75	5.715	76	5.458
77	5.575	78	5.654	79	5.352	80	5.671
81	5.710	82	5.479	83	5.690	84	5.297
85	5.528	86	5.276	87	5.368	88	5.585
89	5.596	90	5.353	91	5.681	92	5.442
93	5.266	94	5.268	95	5.291	96	5.615
97	5.416	98	5.699	99	5.663	100	5.293

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_08

SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)
1	5.706	2	5.662	3	5.360	4	5.585
5	5.609	6	5.471	7	5.569	8	5.485
9	5.292	10	5.673	11	5.486	12	5.626
13	5.430	14	5.563	15	5.659	16	5.287
17	5.687	18	5.719	19	5.616	20	5.668
21	5.621	22	5.591	23	5.329	24	5.558
25	5.540	26	5.623	27	5.393	28	5.712
29	5.689	30	5.370	31	5.451	32	5.545
33	5.448	34	5.394	35	5.588	36	5.633
37	5.561	38	5.418	39	5.522	40	5.707
41	5.480	42	5.414	43	5.491	44	5.312
45	5.704	46	5.317	47	5.291	48	5.319
49	5.321	50	5.681	51	5.273	52	5.473
53	5.547	54	5.457	55	5.404	56	5.456
57	5.296	58	5.299	59	5.358	60	5.684
61	5.705	62	5.581	63	5.355	64	5.592
65	5.575	66	5.436	67	5.284	68	5.381
69	5.542	70	5.388	71	5.267	72	5.254
73	5.643	74	5.257	75	5.618	76	5.332
77	5.560	78	5.647	79	5.362	80	5.677
81	5.670	82	5.651	83	5.656	84	5.425
85	5.584	86	5.612	87	5.379	88	5.368
89	5.600	90	5.489	91	5.657	92	5.357
93	5.263	94	5.277	95	5.583	96	5.555
97	5.307	98	5.658	99	5.286	100	5.487

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_09

SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)
1	5.358	2	5.423	3	5.255	4	5.380
5	5.477	6	5.387	7	5.724	8	5.629
9	5.466	10	5.254	11	5.611	12	5.379
13	5.395	14	5.702	15	5.508	16	5.543
17	5.261	18	5.360	19	5.696	20	5.411
21	5.394	22	5.460	23	5.592	24	5.528
25	5.692	26	5.449	27	5.281	28	5.285
29	5.279	30	5.558	31	5.348	32	5.496
33	5.418	34	5.647	35	5.661	36	5.517
37	5.607	38	5.359	39	5.636	40	5.650
41	5.559	42	5.642	43	5.713	44	5.274
45	5.322	46	5.604	47	5.667	48	5.674
49	5.564	50	5.414	51	5.627	52	5.489
53	5.431	54	5.298	55	5.439	56	5.353
57	5.339	58	5.398	59	5.457	60	5.497
61	5.511	62	5.390	63	5.710	64	5.407
65	5.334	66	5.609	67	5.665	68	5.263
69	5.706	70	5.259	71	5.484	72	5.479
73	5.381	74	5.693	75	5.341	76	5.351
77	5.614	78	5.566	79	5.422	80	5.475
81	5.467	82	5.386	83	5.492	84	5.705
85	5.504	86	5.399	87	5.286	88	5.610
89	5.267	90	5.670	91	5.646	92	5.265
93	5.486	94	5.635	95	5.615	96	5.608
97	5.633	98	5.514	99	5.723	100	5.372

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_10

SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)
1	5.597	2	5.266	3	5.337	4	5.578
5	5.512	6	5.712	7	5.553	8	5.671
9	5.628	10	5.713	11	5.392	12	5.346
13	5.681	14	5.520	15	5.356	16	5.488
17	5.257	18	5.393	19	5.458	20	5.605
21	5.297	22	5.287	23	5.637	24	5.710
25	5.505	26	5.549	27	5.455	28	5.385
29	5.344	30	5.402	31	5.534	32	5.452
33	5.404	34	5.461	35	5.363	36	5.322
37	5.309	38	5.638	39	5.299	40	5.445
41	5.368	42	5.288	43	5.624	44	5.516
45	5.298	46	5.548	47	5.694	48	5.685
49	5.716	50	5.500	51	5.618	52	5.431
53	5.286	54	5.547	55	5.328	56	5.351
57	5.595	58	5.253	59	5.723	60	5.350
61	5.613	62	5.542	63	5.325	64	5.255
65	5.433	66	5.469	67	5.539	68	5.420
69	5.487	70	5.345	71	5.634	72	5.483
73	5.606	74	5.722	75	5.399	76	5.386
77	5.342	78	5.459	79	5.689	80	5.658
81	5.599	82	5.557	83	5.478	84	5.477
85	5.603	86	5.473	87	5.410	88	5.540
89	5.446	90	5.443	91	5.623	92	5.550
93	5.616	94	5.670	95	5.376	96	5.341
97	5.412	98	5.596	99	5.693	100	5.347

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_11

SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)
1	5.481	2	5.267	3	5.677	4	5.358
5	5.424	6	5.457	7	5.486	8	5.285
9	5.455	10	5.632	11	5.637	12	5.679
13	5.534	14	5.651	15	5.341	16	5.376
17	5.580	18	5.705	19	5.505	20	5.438
21	5.610	22	5.606	23	5.682	24	5.578
25	5.627	26	5.674	27	5.410	28	5.370
29	5.631	30	5.475	31	5.514	32	5.694
33	5.405	34	5.555	35	5.659	36	5.420
37	5.533	38	5.575	39	5.508	40	5.266
41	5.471	42	5.657	43	5.392	44	5.339
45	5.562	46	5.348	47	5.497	48	5.278
49	5.628	50	5.643	51	5.292	52	5.528
53	5.595	54	5.450	55	5.461	56	5.387
57	5.665	58	5.257	59	5.454	60	5.301
61	5.540	62	5.571	63	5.391	64	5.568
65	5.343	66	5.347	67	5.565	68	5.718
69	5.646	70	5.488	71	5.608	72	5.710
73	5.569	74	5.377	75	5.408	76	5.572
77	5.626	78	5.666	79	5.412	80	5.284
81	5.473	82	5.459	83	5.402	84	5.416
85	5.480	86	5.525	87	5.413	88	5.519
89	5.375	90	5.602	91	5.640	92	5.478
93	5.418	94	5.653	95	5.681	96	5.421
97	5.638	98	5.714	99	5.536	100	5.673

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_12

SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)
1	5.585	2	5.257	3	5.621	4	5.720
5	5.611	6	5.538	7	5.556	8	5.427
9	5.657	10	5.628	11	5.508	12	5.367
13	5.291	14	5.341	15	5.300	16	5.485
17	5.630	18	5.648	19	5.697	20	5.378
21	5.386	22	5.711	23	5.584	24	5.350
25	5.365	26	5.337	27	5.501	28	5.272
29	5.463	30	5.420	31	5.668	32	5.283
33	5.323	34	5.640	35	5.629	36	5.502
37	5.612	38	5.329	39	5.469	40	5.701
41	5.588	42	5.295	43	5.418	44	5.683
45	5.315	46	5.573	47	5.517	48	5.592
49	5.387	50	5.311	51	5.595	52	5.580
53	5.445	54	5.381	55	5.318	56	5.523
57	5.271	58	5.705	59	5.712	60	5.669
61	5.715	62	5.507	63	5.623	64	5.491
65	5.515	66	5.604	67	5.267	68	5.368
69	5.625	70	5.714	71	5.581	72	5.407
73	5.665	74	5.475	75	5.616	76	5.276
77	5.474	78	5.716	79	5.423	80	5.302
81	5.410	82	5.496	83	5.471	84	5.413
85	5.339	86	5.565	87	5.266	88	5.352
89	5.521	90	5.275	91	5.652	92	5.653
93	5.601	94	5.593	95	5.681	96	5.656
97	5.476	98	5.498	99	5.348	100	5.446

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_13

SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)
1	5.303	2	5.525	3	5.524	4	5.392
5	5.396	6	5.518	7	5.534	8	5.685
9	5.573	10	5.406	11	5.468	12	5.389
13	5.492	14	5.341	15	5.585	16	5.540
17	5.323	18	5.653	19	5.652	20	5.269
21	5.460	22	5.387	23	5.443	24	5.424
25	5.643	26	5.678	27	5.312	28	5.526
29	5.675	30	5.626	31	5.515	32	5.668
33	5.495	34	5.611	35	5.633	36	5.408
37	5.344	38	5.305	39	5.493	40	5.623
41	5.717	42	5.411	43	5.569	44	5.516
45	5.478	46	5.538	47	5.673	48	5.255
49	5.566	50	5.340	51	5.512	52	5.463
53	5.561	54	5.661	55	5.624	56	5.713
57	5.256	58	5.533	59	5.322	60	5.503
61	5.487	62	5.394	63	5.638	64	5.436
65	5.311	66	5.635	67	5.298	68	5.284
69	5.375	70	5.336	71	5.694	72	5.456
73	5.295	74	5.577	75	5.605	76	5.625
77	5.417	78	5.592	79	5.437	80	5.627
81	5.629	82	5.388	83	5.414	84	5.264
85	5.572	86	5.701	87	5.360	88	5.508
89	5.689	90	5.266	91	5.707	92	5.543
93	5.671	94	5.632	95	5.596	96	5.407
97	5.510	98	5.612	99	5.337	100	5.576

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_14

SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)
1	5.320	2	5.569	3	5.430	4	5.515
5	5.378	6	5.686	7	5.418	8	5.682
9	5.367	10	5.715	11	5.444	12	5.405
13	5.695	14	5.421	15	5.574	16	5.293
17	5.266	18	5.450	19	5.462	20	5.524
21	5.499	22	5.520	23	5.455	24	5.270
25	5.345	26	5.560	27	5.466	28	5.491
29	5.498	30	5.602	31	5.274	32	5.550
33	5.393	34	5.454	35	5.268	36	5.590
37	5.608	38	5.424	39	5.600	40	5.276
41	5.305	42	5.374	43	5.588	44	5.662
45	5.541	46	5.516	47	5.463	48	5.677
49	5.555	50	5.540	51	5.649	52	5.484
53	5.639	54	5.641	55	5.655	56	5.316
57	5.678	58	5.357	59	5.547	60	5.269
61	5.397	62	5.318	63	5.302	64	5.596
65	5.411	66	5.538	67	5.568	68	5.626
69	5.694	70	5.671	71	5.323	72	5.267
73	5.693	74	5.643	75	5.443	76	5.598
77	5.502	78	5.528	79	5.341	80	5.445
81	5.691	82	5.353	83	5.368	84	5.575
85	5.344	86	5.440	87	5.489	88	5.501
89	5.292	90	5.355	91	5.534	92	5.642
93	5.423	94	5.545	95	5.470	96	5.409
97	5.425	98	5.612	99	5.651	100	5.688

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_15

SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)
1	5.679	2	5.438	3	5.375	4	5.447
5	5.698	6	5.642	7	5.366	8	5.662
9	5.653	10	5.250	11	5.299	12	5.427
13	5.303	14	5.277	15	5.283	16	5.574
17	5.720	18	5.279	19	5.455	20	5.470
21	5.638	22	5.639	23	5.323	24	5.643
25	5.619	26	5.575	27	5.633	28	5.710
29	5.411	30	5.645	31	5.712	32	5.510
33	5.604	34	5.680	35	5.284	36	5.357
37	5.397	38	5.322	39	5.294	40	5.681
41	5.555	42	5.523	43	5.591	44	5.593
45	5.392	46	5.342	47	5.401	48	5.255
49	5.363	50	5.345	51	5.348	52	5.281
53	5.449	54	5.319	55	5.671	56	5.498
57	5.558	58	5.350	59	5.464	60	5.405
61	5.717	62	5.317	63	5.669	64	5.526
65	5.530	66	5.597	67	5.329	68	5.508
69	5.270	70	5.552	71	5.634	72	5.355
73	5.646	74	5.461	75	5.516	76	5.380
77	5.263	78	5.387	79	5.306	80	5.341
81	5.605	82	5.606	83	5.687	84	5.637
85	5.362	86	5.325	87	5.305	88	5.326
89	5.688	90	5.390	91	5.477	92	5.567
93	5.320	94	5.651	95	5.499	96	5.721
97	5.296	98	5.410	99	5.673	100	5.586

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_16

SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)
1	5.426	2	5.604	3	5.396	4	5.259
5	5.410	6	5.543	7	5.666	8	5.395
9	5.569	10	5.340	11	5.348	12	5.690
13	5.679	14	5.628	15	5.515	16	5.588
17	5.436	18	5.547	19	5.555	20	5.385
21	5.456	22	5.563	23	5.499	24	5.573
25	5.526	26	5.264	27	5.521	28	5.528
29	5.334	30	5.363	31	5.470	32	5.386
33	5.275	34	5.693	35	5.493	36	5.427
37	5.665	38	5.446	39	5.681	40	5.382
41	5.336	42	5.416	43	5.447	44	5.390
45	5.278	46	5.685	47	5.263	48	5.342
49	5.345	50	5.343	51	5.497	52	5.653
53	5.417	54	5.309	55	5.509	56	5.579
57	5.441	58	5.684	59	5.397	60	5.341
61	5.372	62	5.315	63	5.554	64	5.540
65	5.546	66	5.268	67	5.299	68	5.561
69	5.317	70	5.656	71	5.318	72	5.703
73	5.516	74	5.544	75	5.454	76	5.414
77	5.273	78	5.574	79	5.535	80	5.380
81	5.457	82	5.595	83	5.548	84	5.466
85	5.672	86	5.271	87	5.486	88	5.650
89	5.490	90	5.699	91	5.381	92	5.581
93	5.276	94	5.550	95	5.487	96	5.402
97	5.257	98	5.406	99	5.323	100	5.371

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_17

SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)
1	5.421	2	5.452	3	5.547	4	5.598
5	5.335	6	5.378	7	5.572	8	5.279
9	5.419	10	5.605	11	5.553	12	5.461
13	5.406	14	5.397	15	5.293	16	5.401
17	5.435	18	5.596	19	5.683	20	5.352
21	5.480	22	5.416	23	5.575	24	5.543
25	5.708	26	5.449	27	5.652	28	5.372
29	5.661	30	5.483	31	5.588	32	5.315
33	5.251	34	5.611	35	5.667	36	5.264
37	5.283	38	5.339	39	5.592	40	5.363
41	5.629	42	5.594	43	5.518	44	5.674
45	5.573	46	5.531	47	5.323	48	5.405
49	5.353	50	5.617	51	5.468	52	5.671
53	5.695	54	5.269	55	5.515	56	5.580
57	5.649	58	5.673	59	5.299	60	5.644
61	5.509	62	5.650	63	5.500	64	5.467
65	5.344	66	5.614	67	5.538	68	5.622
69	5.645	70	5.721	71	5.368	72	5.627
73	5.260	74	5.620	75	5.601	76	5.356
77	5.413	78	5.340	79	5.451	80	5.697
81	5.643	82	5.519	83	5.444	84	5.578
85	5.624	86	5.556	87	5.551	88	5.355
89	5.677	90	5.439	91	5.548	92	5.338
93	5.277	94	5.387	95	5.252	96	5.311
97	5.651	98	5.599	99	5.574	100	5.600

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_18

SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)
1	5.487	2	5.444	3	5.562	4	5.715
5	5.662	6	5.308	7	5.379	8	5.453
9	5.368	10	5.629	11	5.514	12	5.329
13	5.538	14	5.356	15	5.588	16	5.391
17	5.413	18	5.700	19	5.381	20	5.618
21	5.455	22	5.558	23	5.352	24	5.582
25	5.283	26	5.709	27	5.542	28	5.394
29	5.663	30	5.689	31	5.288	32	5.262
33	5.370	34	5.371	35	5.577	36	5.702
37	5.299	38	5.465	39	5.325	40	5.503
41	5.312	42	5.549	43	5.451	44	5.314
45	5.319	46	5.274	47	5.682	48	5.388
49	5.546	50	5.513	51	5.474	52	5.713
53	5.260	54	5.251	55	5.722	56	5.408
57	5.625	58	5.392	59	5.418	60	5.389
61	5.492	62	5.668	63	5.697	64	5.482
65	5.300	66	5.647	67	5.599	68	5.494
69	5.571	70	5.348	71	5.460	72	5.716
73	5.551	74	5.327	75	5.366	76	5.509
77	5.600	78	5.406	79	5.622	80	5.495
81	5.712	82	5.404	83	5.421	84	5.464
85	5.393	86	5.470	87	5.676	88	5.617
89	5.594	90	5.637	91	5.425	92	5.691
93	5.278	94	5.410	95	5.486	96	5.632
97	5.653	98	5.400	99	5.572	100	5.426

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_19

SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)
1	5.329	2	5.351	3	5.639	4	5.713
5	5.256	6	5.715	7	5.672	8	5.430
9	5.291	10	5.665	11	5.459	12	5.427
13	5.693	14	5.462	15	5.571	16	5.573
17	5.474	18	5.262	19	5.596	20	5.287
21	5.327	22	5.341	23	5.326	24	5.701
25	5.457	26	5.576	27	5.681	28	5.620
29	5.325	30	5.671	31	5.543	32	5.720
33	5.521	34	5.360	35	5.485	36	5.509
37	5.408	38	5.334	39	5.555	40	5.315
41	5.417	42	5.694	43	5.623	44	5.654
45	5.253	46	5.499	47	5.544	48	5.293
49	5.708	50	5.372	51	5.366	52	5.520
53	5.302	54	5.711	55	5.590	56	5.477
57	5.349	58	5.712	59	5.305	60	5.281
61	5.383	62	5.467	63	5.397	64	5.388
65	5.527	66	5.540	67	5.651	68	5.511
69	5.386	70	5.370	71	5.580	72	5.517
73	5.684	74	5.519	75	5.435	76	5.444
77	5.535	78	5.298	79	5.699	80	5.554
81	5.514	82	5.319	83	5.473	84	5.348
85	5.705	86	5.594	87	5.323	88	5.484
89	5.506	90	5.714	91	5.411	92	5.359
93	5.421	94	5.487	95	5.258	96	5.312
97	5.491	98	5.269	99	5.320	100	5.641

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_20

SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)
1	5.288	2	5.291	3	5.457	4	5.252
5	5.596	6	5.598	7	5.306	8	5.434
9	5.633	10	5.625	11	5.374	12	5.477
13	5.684	14	5.272	15	5.664	16	5.441
17	5.399	18	5.586	19	5.261	20	5.656
21	5.621	22	5.373	23	5.280	24	5.376
25	5.349	26	5.530	27	5.632	28	5.348
29	5.333	30	5.618	31	5.391	32	5.283
33	5.265	34	5.273	35	5.594	36	5.440
37	5.548	38	5.651	39	5.724	40	5.584
41	5.676	42	5.682	43	5.506	44	5.294
45	5.679	46	5.323	47	5.649	48	5.497
49	5.361	50	5.337	51	5.286	52	5.268
53	5.524	54	5.513	55	5.257	56	5.300
57	5.697	58	5.504	59	5.492	60	5.607
61	5.525	62	5.377	63	5.432	64	5.310
65	5.320	66	5.661	67	5.250	68	5.493
69	5.593	70	5.346	71	5.456	72	5.307
73	5.368	74	5.281	75	5.636	76	5.382
77	5.540	78	5.538	79	5.502	80	5.573
81	5.692	82	5.445	83	5.590	84	5.370
85	5.570	86	5.439	87	5.654	88	5.443
89	5.352	90	5.581	91	5.295	92	5.681
93	5.322	94	5.680	95	5.327	96	5.561
97	5.345	98	5.550	99	5.356	100	5.609

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_21

SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)
1	5.269	2	5.285	3	5.400	4	5.637
5	5.564	6	5.523	7	5.255	8	5.461
9	5.563	10	5.552	11	5.625	12	5.421
13	5.531	14	5.695	15	5.271	16	5.590
17	5.484	18	5.456	19	5.352	20	5.409
21	5.672	22	5.459	23	5.292	24	5.359
25	5.486	26	5.422	27	5.650	28	5.407
29	5.633	30	5.532	31	5.720	32	5.493
33	5.357	34	5.439	35	5.472	36	5.628
37	5.442	38	5.668	39	5.343	40	5.638
41	5.466	42	5.470	43	5.585	44	5.611
45	5.471	46	5.524	47	5.307	48	5.441
49	5.398	50	5.529	51	5.545	52	5.325
53	5.641	54	5.688	55	5.657	56	5.429
57	5.302	58	5.719	59	5.687	60	5.494
61	5.328	62	5.397	63	5.475	64	5.626
65	5.693	66	5.265	67	5.608	68	5.337
69	5.485	70	5.703	71	5.554	72	5.294
73	5.505	74	5.314	75	5.324	76	5.405
77	5.355	78	5.389	79	5.649	80	5.620
81	5.259	82	5.566	83	5.645	84	5.701
85	5.510	86	5.370	87	5.539	88	5.423
89	5.342	90	5.609	91	5.384	92	5.629
93	5.369	94	5.613	95	5.718	96	5.381
97	5.424	98	5.578	99	5.568	100	5.427

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_22

SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)
1	5.576	2	5.614	3	5.255	4	5.381
5	5.450	6	5.715	7	5.545	8	5.517
9	5.647	10	5.317	11	5.546	12	5.375
13	5.530	14	5.439	15	5.344	16	5.541
17	5.323	18	5.513	19	5.480	20	5.586
21	5.300	22	5.565	23	5.341	24	5.472
25	5.283	26	5.524	27	5.307	28	5.284
29	5.388	30	5.583	31	5.663	32	5.332
33	5.484	34	5.362	35	5.658	36	5.295
37	5.446	38	5.491	39	5.441	40	5.570
41	5.351	42	5.533	43	5.349	44	5.655
45	5.563	46	5.638	47	5.613	48	5.646
49	5.285	50	5.696	51	5.417	52	5.358
53	5.703	54	5.669	55	5.662	56	5.713
57	5.335	58	5.321	59	5.438	60	5.355
61	5.628	62	5.412	63	5.700	64	5.674
65	5.536	66	5.334	67	5.626	68	5.465
69	5.310	70	5.518	71	5.282	72	5.551
73	5.585	74	5.548	75	5.680	76	5.376
77	5.338	78	5.440	79	5.266	80	5.648
81	5.516	82	5.468	83	5.644	84	5.414
85	5.579	86	5.393	87	5.643	88	5.537
89	5.487	90	5.592	91	5.590	92	5.423
93	5.430	94	5.288	95	5.387	96	5.636
97	5.456	98	5.508	99	5.359	100	5.425

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_23

SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)
1	5.650	2	5.457	3	5.366	4	5.672
5	5.654	6	5.255	7	5.381	8	5.432
9	5.701	10	5.639	11	5.310	12	5.598
13	5.405	14	5.576	15	5.464	16	5.529
17	5.659	18	5.278	19	5.251	20	5.525
21	5.530	22	5.528	23	5.567	24	5.486
25	5.394	26	5.690	27	5.713	28	5.315
29	5.533	30	5.614	31	5.623	32	5.395
33	5.620	34	5.308	35	5.379	36	5.281
37	5.677	38	5.304	39	5.537	40	5.364
41	5.352	42	5.339	43	5.284	44	5.456
45	5.626	46	5.632	47	5.287	48	5.592
49	5.452	50	5.470	51	5.329	52	5.388
53	5.356	54	5.585	55	5.593	56	5.283
57	5.603	58	5.361	59	5.408	60	5.717
61	5.404	62	5.298	63	5.347	64	5.332
65	5.412	66	5.697	67	5.674	68	5.263
69	5.499	70	5.372	71	5.676	72	5.609
73	5.619	74	5.468	75	5.692	76	5.577
77	5.578	78	5.268	79	5.428	80	5.552
81	5.413	82	5.482	83	5.579	84	5.662
85	5.621	86	5.572	87	5.682	88	5.625
89	5.644	90	5.279	91	5.253	92	5.652
93	5.678	94	5.360	95	5.627	96	5.270
97	5.721	98	5.261	99	5.497	100	5.441

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_24

SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)
1	5.564	2	5.702	3	5.585	4	5.465
5	5.407	6	5.670	7	5.522	8	5.466
9	5.628	10	5.659	11	5.485	12	5.704
13	5.640	14	5.367	15	5.510	16	5.722
17	5.412	18	5.355	19	5.430	20	5.549
21	5.361	22	5.329	23	5.389	24	5.587
25	5.621	26	5.720	27	5.451	28	5.320
29	5.321	30	5.424	31	5.508	32	5.618
33	5.278	34	5.556	35	5.387	36	5.374
37	5.562	38	5.553	39	5.470	40	5.276
41	5.457	42	5.439	43	5.711	44	5.518
45	5.458	46	5.513	47	5.500	48	5.376
49	5.402	50	5.447	51	5.669	52	5.524
53	5.400	54	5.515	55	5.625	56	5.652
57	5.449	58	5.301	59	5.484	60	5.529
61	5.541	62	5.333	63	5.255	64	5.354
65	5.695	66	5.365	67	5.701	68	5.494
69	5.646	70	5.454	71	5.613	72	5.721
73	5.595	74	5.688	75	5.690	76	5.487
77	5.415	78	5.428	79	5.548	80	5.591
81	5.277	82	5.496	83	5.323	84	5.302
85	5.719	86	5.298	87	5.299	88	5.614
89	5.405	90	5.497	91	5.563	92	5.291
93	5.724	94	5.483	95	5.271	96	5.297
97	5.559	98	5.311	99	5.426	100	5.360

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_25

SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)
1	5.336	2	5.277	3	5.619	4	5.303
5	5.685	6	5.545	7	5.356	8	5.341
9	5.471	10	5.533	11	5.724	12	5.716
13	5.267	14	5.495	15	5.253	16	5.460
17	5.600	18	5.279	19	5.333	20	5.335
21	5.566	22	5.384	23	5.718	24	5.616
25	5.598	26	5.588	27	5.722	28	5.591
29	5.621	30	5.475	31	5.366	32	5.692
33	5.681	34	5.306	35	5.595	36	5.594
37	5.673	38	5.291	39	5.400	40	5.269
41	5.426	42	5.491	43	5.281	44	5.395
45	5.515	46	5.288	47	5.519	48	5.334
49	5.711	50	5.550	51	5.464	52	5.525
53	5.377	54	5.265	55	5.452	56	5.596
57	5.297	58	5.305	59	5.565	60	5.579
61	5.345	62	5.703	63	5.719	64	5.298
65	5.541	66	5.456	67	5.282	68	5.645
69	5.421	70	5.357	71	5.351	72	5.431
73	5.674	74	5.449	75	5.576	76	5.539
77	5.264	78	5.257	79	5.439	80	5.562
81	5.493	82	5.642	83	5.668	84	5.477
85	5.450	86	5.311	87	5.544	88	5.707
89	5.402	90	5.567	91	5.442	92	5.343
93	5.720	94	5.397	95	5.665	96	5.582
97	5.405	98	5.467	99	5.444	100	5.693

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_26

SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)
1	5.474	2	5.271	3	5.495	4	5.592
5	5.560	6	5.447	7	5.713	8	5.561
9	5.389	10	5.526	11	5.400	12	5.715
13	5.672	14	5.388	15	5.450	16	5.325
17	5.706	18	5.556	19	5.621	20	5.522
21	5.532	22	5.357	23	5.587	24	5.258
25	5.435	26	5.329	27	5.716	28	5.571
29	5.344	30	5.250	31	5.649	32	5.639
33	5.611	34	5.466	35	5.612	36	5.274
37	5.263	38	5.539	39	5.434	40	5.645
41	5.615	42	5.572	43	5.574	44	5.549
45	5.420	46	5.646	47	5.501	48	5.402
49	5.453	50	5.320	51	5.674	52	5.491
53	5.683	54	5.700	55	5.607	56	5.441
57	5.625	58	5.464	59	5.699	60	5.490
61	5.265	62	5.719	63	5.470	64	5.494
65	5.302	66	5.391	67	5.541	68	5.641
69	5.338	70	5.722	71	5.475	72	5.295
73	5.352	74	5.692	75	5.583	76	5.529
77	5.665	78	5.603	79	5.423	80	5.465
81	5.487	82	5.415	83	5.381	84	5.354
85	5.624	86	5.502	87	5.533	88	5.688
89	5.375	90	5.272	91	5.622	92	5.437
93	5.499	94	5.714	95	5.578	96	5.576
97	5.278	98	5.513	99	5.419	100	5.383

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_27

SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)
1	5.668	2	5.412	3	5.577	4	5.421
5	5.372	6	5.376	7	5.363	8	5.645
9	5.696	10	5.596	11	5.650	12	5.587
13	5.306	14	5.691	15	5.341	16	5.256
17	5.399	18	5.429	19	5.392	20	5.632
21	5.263	22	5.466	23	5.567	24	5.265
25	5.522	26	5.661	27	5.700	28	5.511
29	5.536	30	5.326	31	5.709	32	5.695
33	5.669	34	5.523	35	5.582	36	5.580
37	5.550	38	5.277	39	5.285	40	5.557
41	5.574	42	5.461	43	5.425	44	5.551
45	5.608	46	5.261	47	5.317	48	5.260
49	5.439	50	5.562	51	5.324	52	5.414
53	5.527	54	5.497	55	5.686	56	5.259
57	5.664	58	5.590	59	5.478	60	5.404
61	5.589	62	5.607	63	5.481	64	5.689
65	5.389	66	5.640	67	5.720	68	5.697
69	5.402	70	5.452	71	5.313	72	5.717
73	5.257	74	5.287	75	5.534	76	5.553
77	5.304	78	5.684	79	5.374	80	5.390
81	5.441	82	5.506	83	5.444	84	5.329
85	5.250	86	5.503	87	5.588	88	5.442
89	5.611	90	5.561	91	5.406	92	5.663
93	5.297	94	5.619	95	5.405	96	5.677
97	5.501	98	5.508	99	5.262	100	5.474

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_28

SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)
1	5.307	2	5.649	3	5.482	4	5.315
5	5.443	6	5.285	7	5.390	8	5.326
9	5.654	10	5.581	11	5.263	12	5.687
13	5.679	14	5.486	15	5.279	16	5.680
17	5.387	18	5.608	19	5.487	20	5.724
21	5.683	22	5.430	23	5.436	24	5.320
25	5.281	26	5.257	27	5.539	28	5.255
29	5.622	30	5.359	31	5.251	32	5.418
33	5.456	34	5.569	35	5.628	36	5.643
37	5.301	38	5.488	39	5.338	40	5.584
41	5.685	42	5.503	43	5.411	44	5.697
45	5.574	46	5.558	47	5.468	48	5.355
49	5.478	50	5.549	51	5.283	52	5.648
53	5.695	54	5.371	55	5.304	56	5.705
57	5.722	58	5.349	59	5.453	60	5.591
61	5.678	62	5.401	63	5.284	64	5.481
65	5.381	66	5.644	67	5.422	68	5.590
69	5.547	70	5.458	71	5.274	72	5.446
73	5.523	74	5.391	75	5.719	76	5.296
77	5.521	78	5.286	79	5.435	80	5.336
81	5.619	82	5.668	83	5.565	84	5.343
85	5.434	86	5.356	87	5.374	88	5.278
89	5.449	90	5.660	91	5.544	92	5.363
93	5.604	94	5.314	95	5.499	96	5.531
97	5.322	98	5.347	99	5.675	100	5.273

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_29

SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)
1	5.587	2	5.271	3	5.622	4	5.676
5	5.627	6	5.604	7	5.309	8	5.666
9	5.449	10	5.613	11	5.340	12	5.579
13	5.372	14	5.263	15	5.252	16	5.665
17	5.568	18	5.386	19	5.639	20	5.480
21	5.251	22	5.270	23	5.614	24	5.698
25	5.549	26	5.451	27	5.335	28	5.685
29	5.464	30	5.424	31	5.291	32	5.400
33	5.555	34	5.530	35	5.510	36	5.278
37	5.257	38	5.595	39	5.724	40	5.645
41	5.675	42	5.317	43	5.695	44	5.722
45	5.277	46	5.522	47	5.686	48	5.597
49	5.588	50	5.517	51	5.518	52	5.707
53	5.431	54	5.364	55	5.542	56	5.513
57	5.322	58	5.405	59	5.402	60	5.560
61	5.677	62	5.492	63	5.446	64	5.268
65	5.717	66	5.459	67	5.357	68	5.655
69	5.650	70	5.314	71	5.688	72	5.528
73	5.535	74	5.715	75	5.380	76	5.648
77	5.556	78	5.531	79	5.616	80	5.586
81	5.612	82	5.435	83	5.656	84	5.659
85	5.546	86	5.407	87	5.346	88	5.516
89	5.623	90	5.634	91	5.325	92	5.420
93	5.720	94	5.558	95	5.478	96	5.644
97	5.311	98	5.607	99	5.273	100	5.444

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_30

SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)	SEQ#	Frequency (GHz)
1	5.490	2	5.296	3	5.458	4	5.553
5	5.430	6	5.516	7	5.414	8	5.618
9	5.521	10	5.544	11	5.721	12	5.438
13	5.311	14	5.677	15	5.386	16	5.382
17	5.600	18	5.446	19	5.549	20	5.422
21	5.291	22	5.581	23	5.316	24	5.359
25	5.637	26	5.588	27	5.612	28	5.288
29	5.455	30	5.541	31	5.385	32	5.557
33	5.413	34	5.701	35	5.515	36	5.254
37	5.459	38	5.714	39	5.502	40	5.528
41	5.536	42	5.260	43	5.614	44	5.451
45	5.663	46	5.532	47	5.273	48	5.482
49	5.689	50	5.326	51	5.578	52	5.537
53	5.266	54	5.387	55	5.299	56	5.513
57	5.355	58	5.297	59	5.569	60	5.262
61	5.699	62	5.551	63	5.648	64	5.679
65	5.389	66	5.607	67	5.450	68	5.421
69	5.571	70	5.629	71	5.345	72	5.623
73	5.380	74	5.643	75	5.656	76	5.500
77	5.664	78	5.550	79	5.554	80	5.269
81	5.435	82	5.442	83	5.715	84	5.284
85	5.277	86	5.582	87	5.460	88	5.412
89	5.638	90	5.354	91	5.265	92	5.323
93	5.585	94	5.539	95	5.711	96	5.390
97	5.697	98	5.619	99	5.552	100	5.650

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