

DFS Test Report

Report No.: RF151202C40-1

FCC ID: JVPWDP02R

Test Model: WDP02R

Received Date: Dec. 02, 2015

Test Date: Apr. 29 ~ May 06, 2016

Issued Date: May 10, 2016

Applicant: BenQ Corporation

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A O T

Release Control Record

Issue No.	Description	Date Issued
RF151202C40-1	Original release.	May 10, 2016

1 Certificate of Conformity

Product: Wireless FHD Kit

Brand: BenQ

Test Model: WDP02R

Sample Status: Engineering sample

Applicant: BenQ Corporation

Test Date: Apr. 29 ~ May 06, 2016

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

KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

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 EMC characteristics under the conditions specified in this report.

Prepared by : Sunt Lee , **Date:** May 10, 2016
Sunt Lee / Specialist

Approved by : Ken Liu , **Date:** May 10, 2016
Ken Liu / Senior Manager

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	✓	✓

*The EUT doesn't operate in 5600 ~ 5650MHz via software controls.

2.2 EUT Software and Firmware Version

Table 2: The EUT Software/Firmware Version

No.	Product	Model No.	Hardware/Software/Firmware Version
1	Wireless FHD Kit	WDP02R	WHD2004LRUD115A301

2.3 Description of Available Antennas to the EUT

Table 3: Antenna List

Ant. No.	Antenna Type	Operation Frequency Range (MHz)	Gain (dBi)
1	PCB	5250-5725	2.16

2.4 EUT Maximum Conducted Power

Table 4: The Measured Conducted Output Power

WHDI (40MHz)

Ant. No.	Frequency Band (MHz)	MAX. Power	
		Output Power (dBm)	Output Power (mW)
1	5250~5350	16.71	46.881
1	5470~5725	16.62	45.920

2.5 EUT Maximum E.I.R.P. Power

Table 5: The EIRP Output Power List

WHDI (40MHz)

Ant. No.	Frequency Band (MHz)	MAX. Power	
		Output Power (dBm)	Output Power (mW)
1	5250~5350	18.87	77.090
1	5470~5725	18.78	75.509

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 77.09 mW which less than 500mW, therefore it's not require TPC function.

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	✓	Not required	✓
DFS Detection Threshold	✓	Not required	✓
Channel Availability Check Time	✓	Not required	Not required
U-NII Detection Bandwidth	✓	Not required	✓

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 all 20 MHz channel blocks and a null frequencies between the bonded 20 MHz channel blocks.

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 $\left\{ \frac{1}{360} \right\} \cdot \left\{ \frac{19 \cdot 10^6}{PRI_{upper}} \right\}$	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066μsec, with a minimum increment of 1μsec, 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

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 & Manufacture	Model No.	Serial No.	Calibrated Date	Calibratd Until
R&S Spectrum analyzer	ESR	R&S	2016/02/02	2017/02/01
Signal generator	8645A	Agilent	2015/08/05	2016/08/04

4.2 Description of Support Units

Table 14: Support Unit Information

No.	Product	Brand	Model No.	Software/Firmware Version
1	Wireless FHD Kit	BenQ	WDP02T	WHD2004LTUD115A301

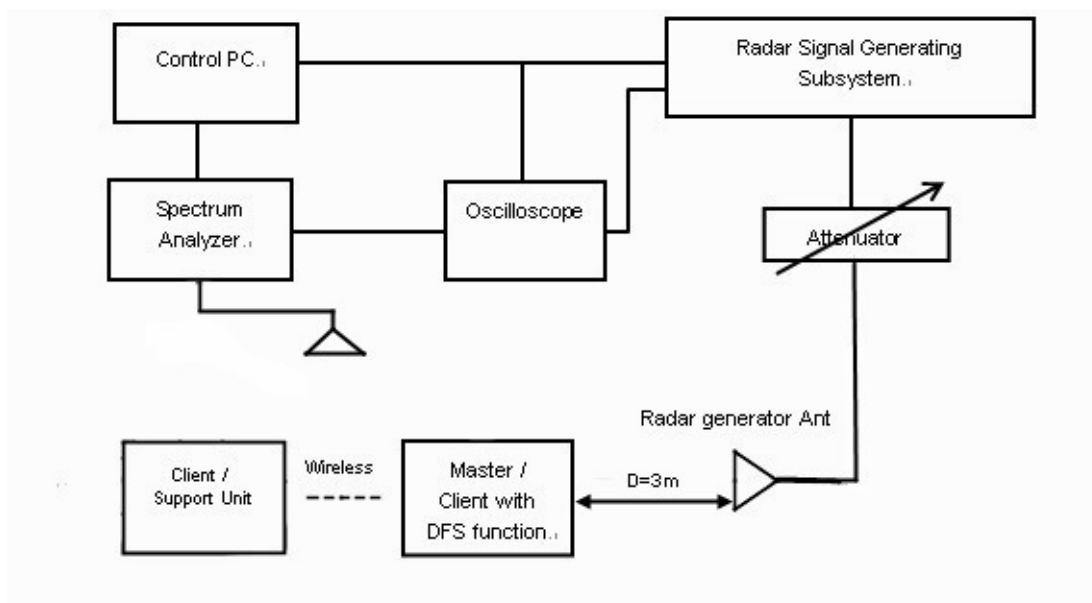
NOTE: This device was functioned as a ☐ Master ☒ Slave device during the DFS test.

5. Test Procedure

5.1 ADT DFS Measurement System

A complete ADT 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 (UUT).

Radated Setup Configuration of ADT DFS Measurement System



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:

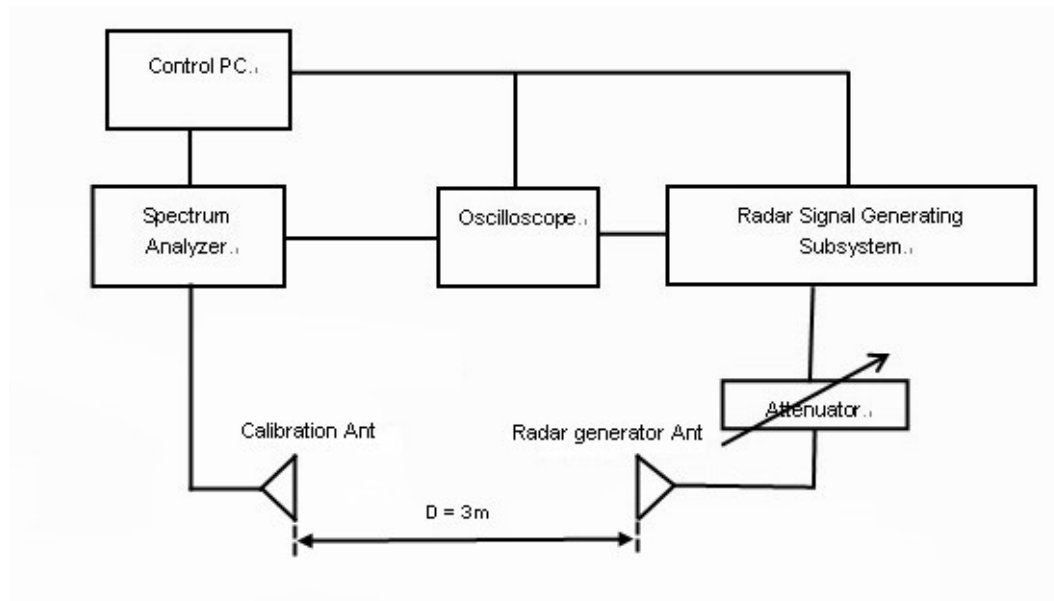
	a) The data file must be of a type that is typical for the device (i.e., MPEG-2, MPEG-4, WAV, MP3, MP4, AVI, etc.) and must generally be transmitting in a streaming mode.
	b) Software to ping the client is permitted to simulate data transfer but must have random ping intervals.
	c) Timing plots are required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

WDP02T is a client device, it's bonded to sale with WDP02R, the normal function is video stream transmit and receive.

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

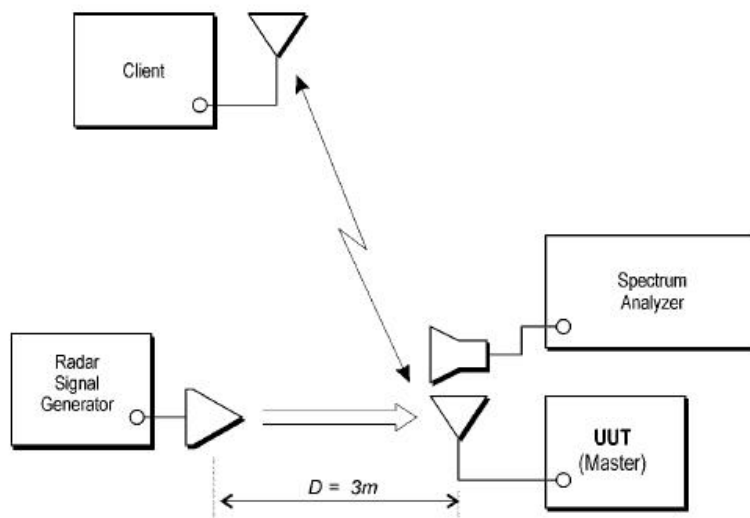


5.3 Deviation from Test Standard

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 Results

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

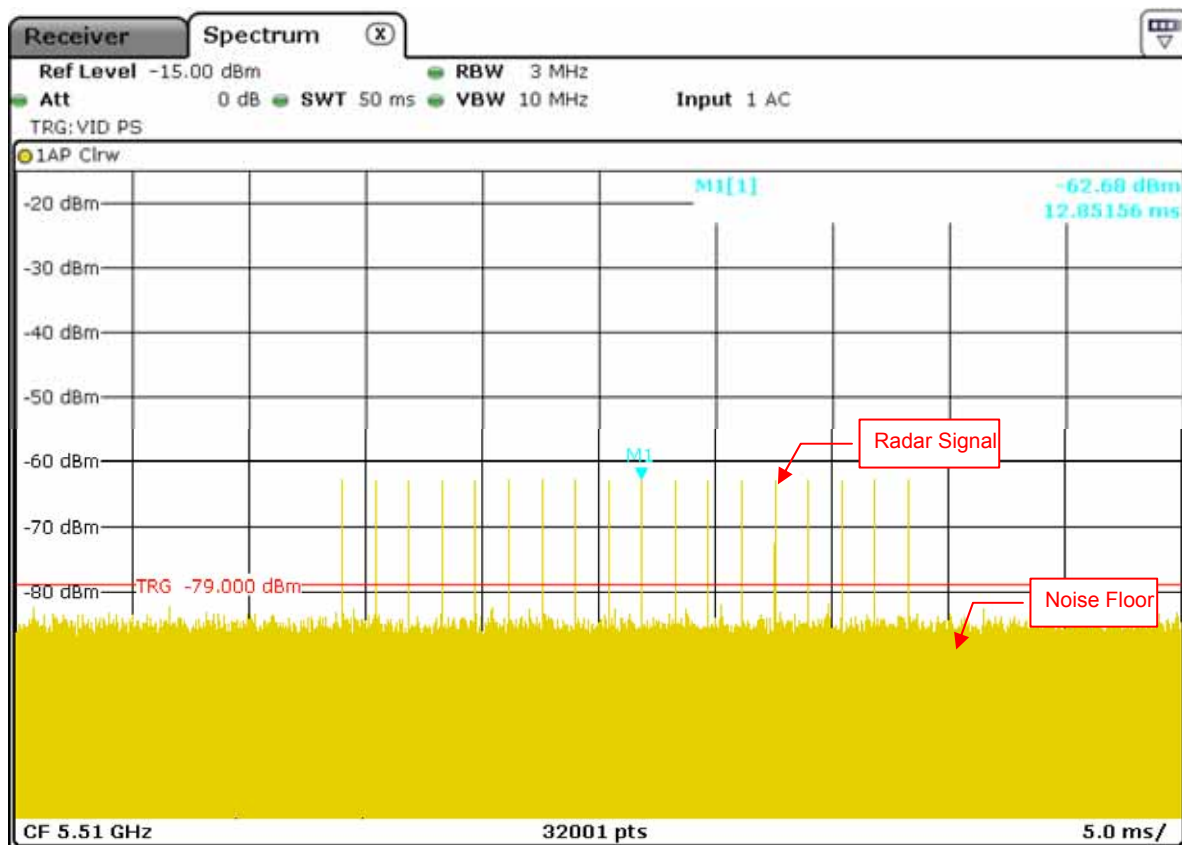
6.2 Test Results

6.2.1 Test Mode

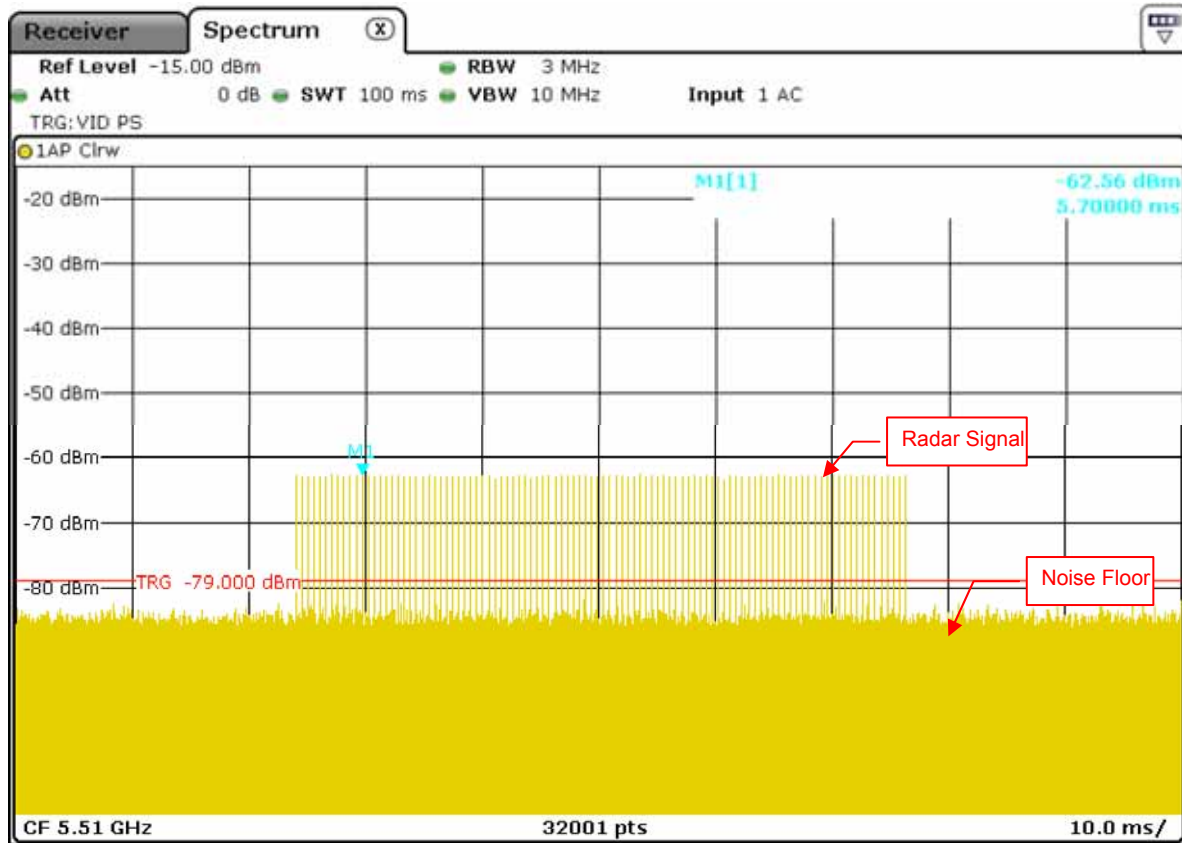
Master with injection at the Master. (Radar Test Waveforms are injected into the Master.)

DFS Detection Threshold

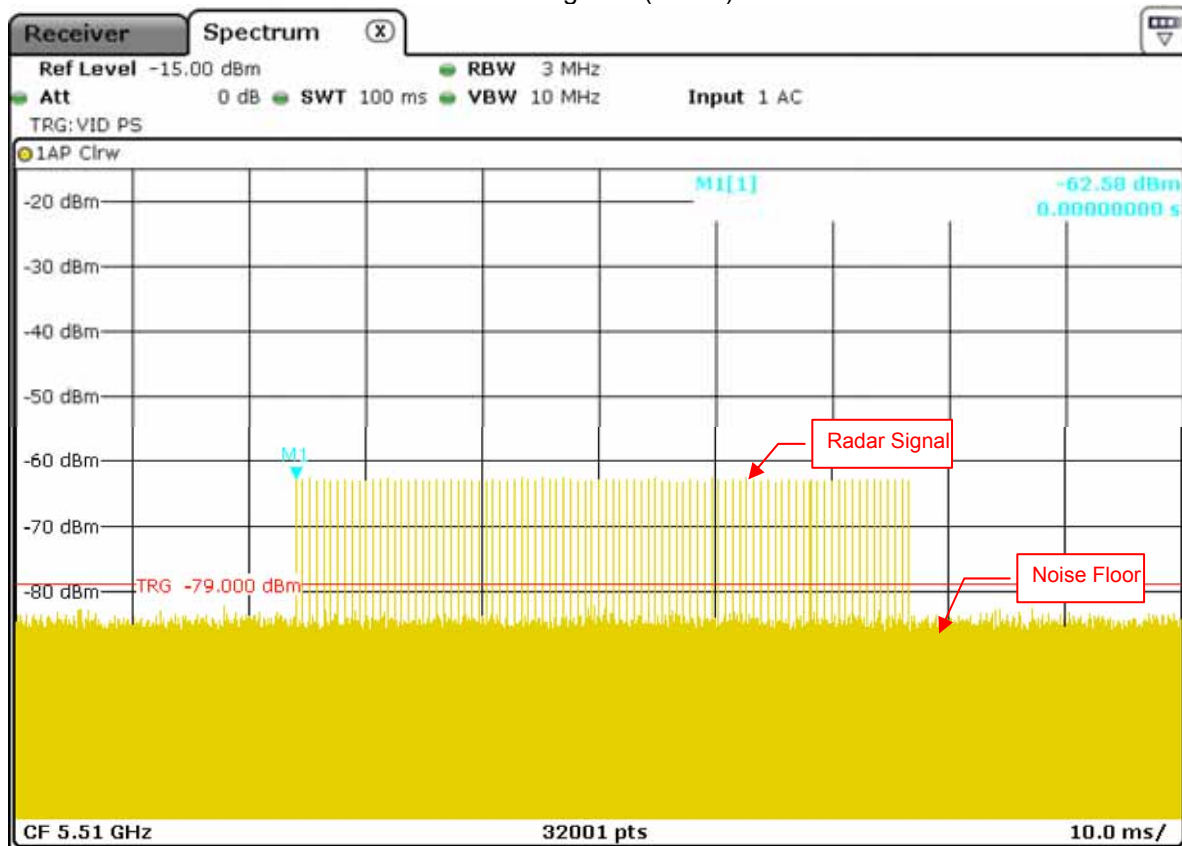
For a detection threshold level of -62dBm, the required signal strength at EUT antenna location is -62 dBm. The tested level is lower than required level hence it provides margin to the limit.



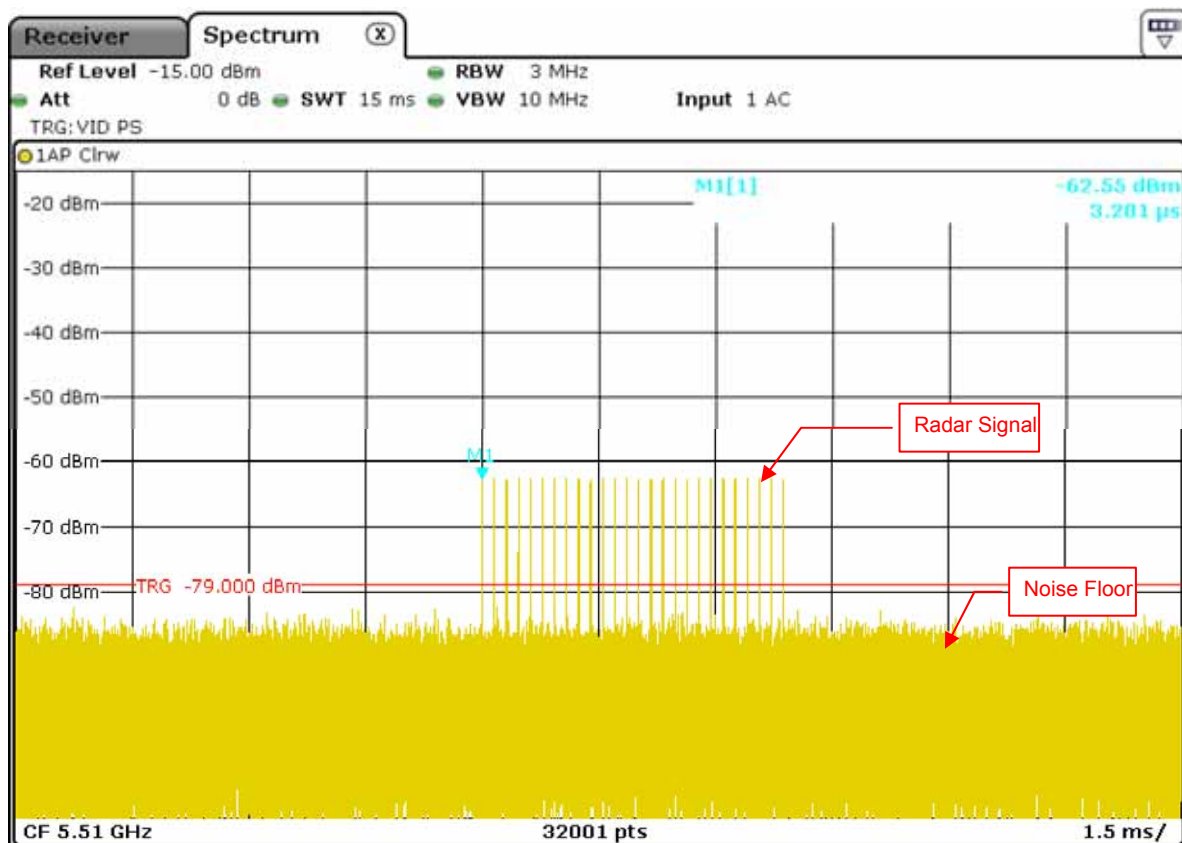
Radar Signal 0



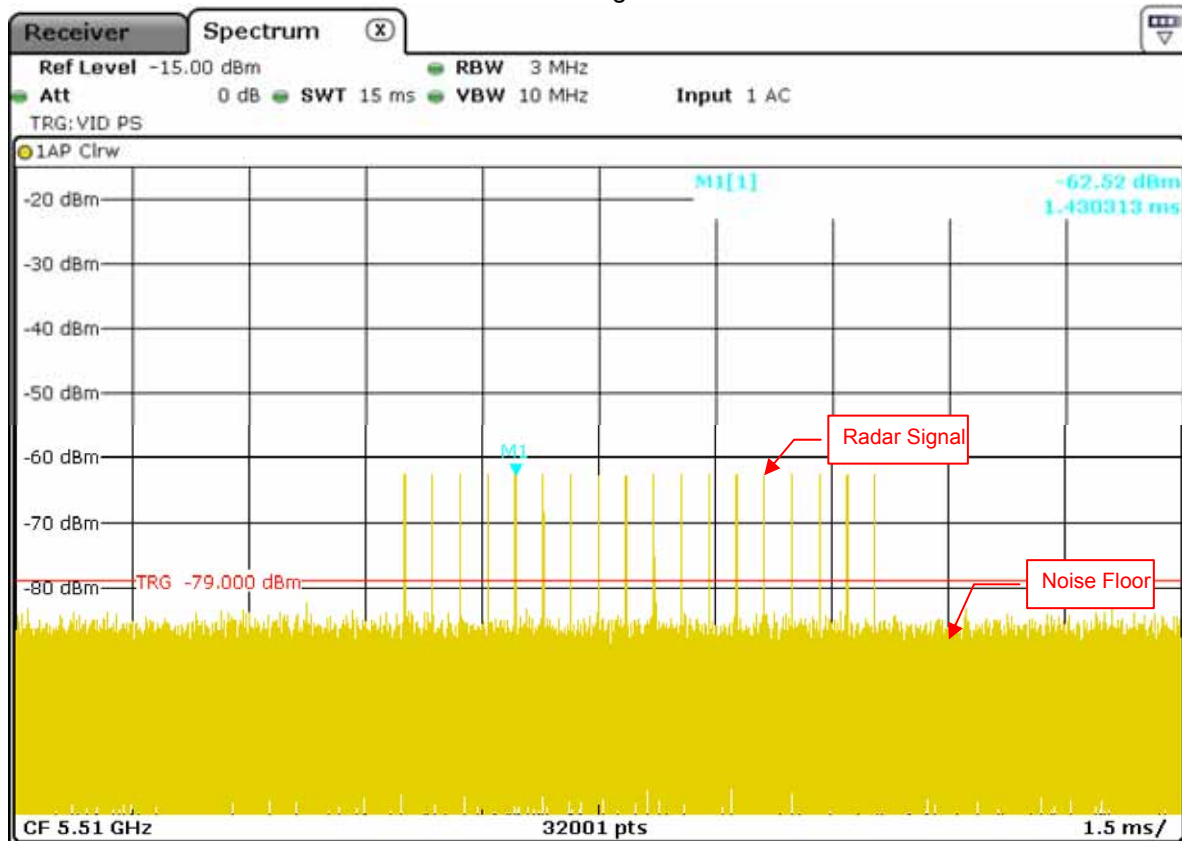
Radar Signal 1 (Test A)



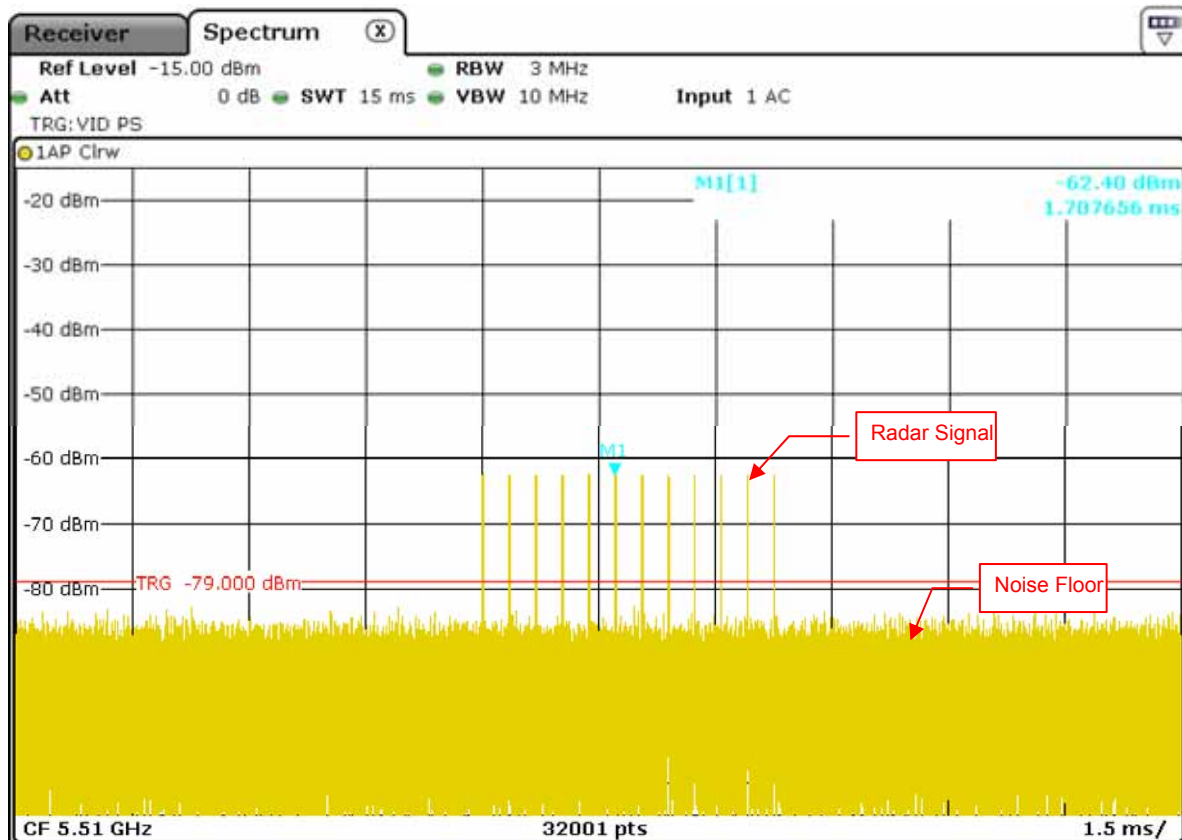
Radar Signal 1 (Test B)



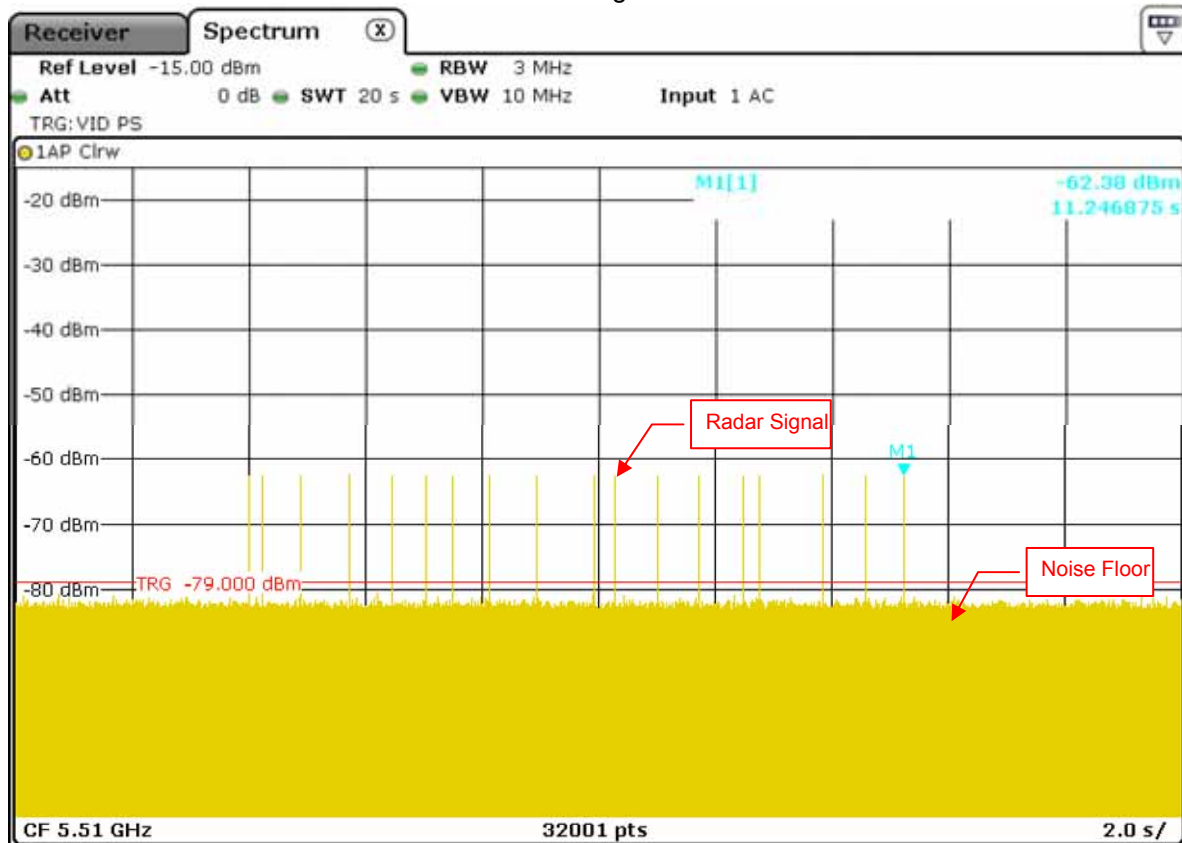
Radar Signal 2



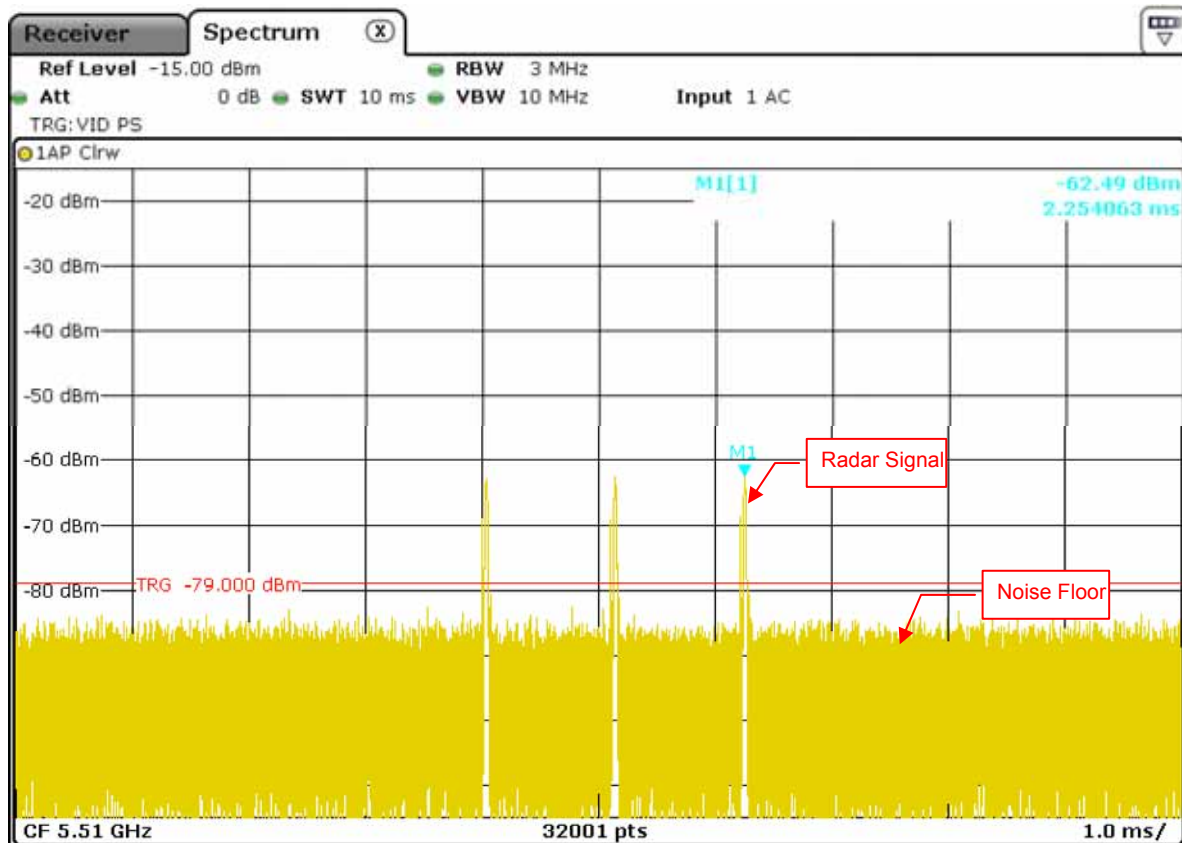
Radar Signal 3



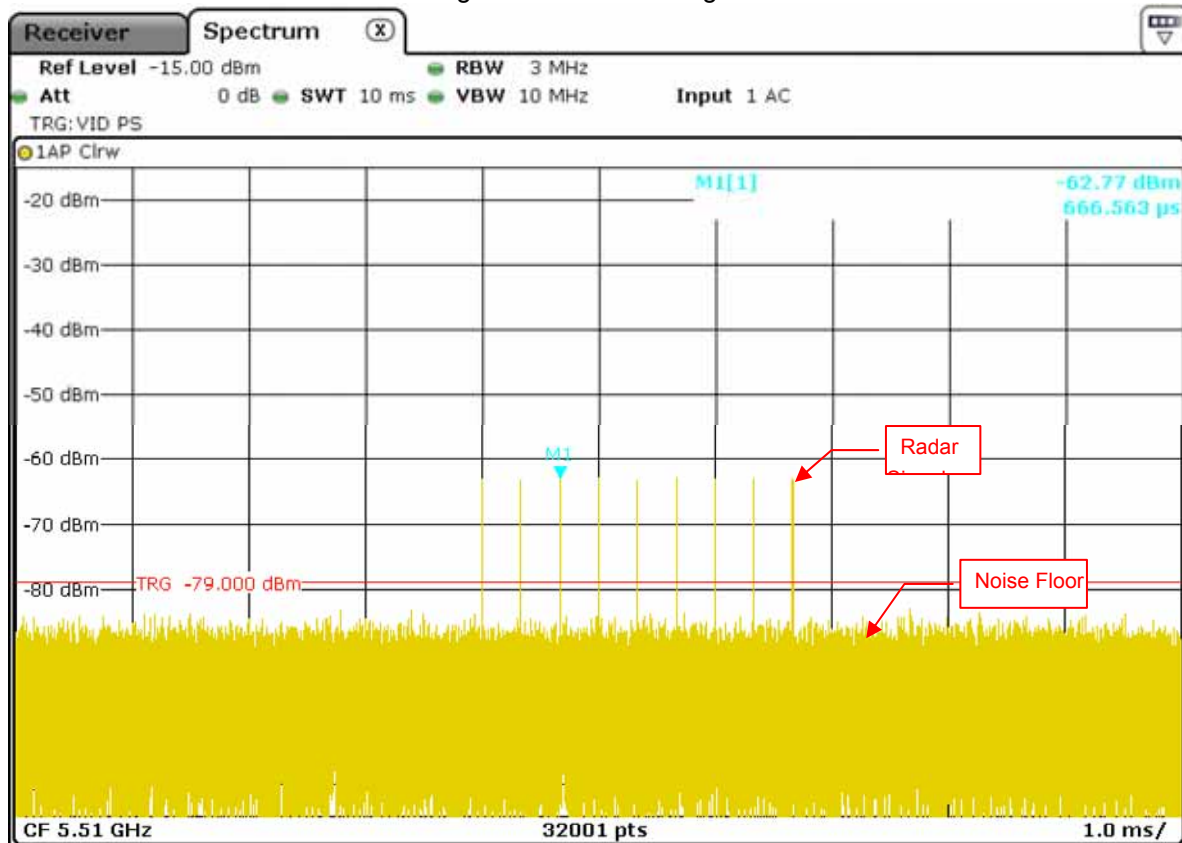
Radar Signal 4



Radar Signal 5



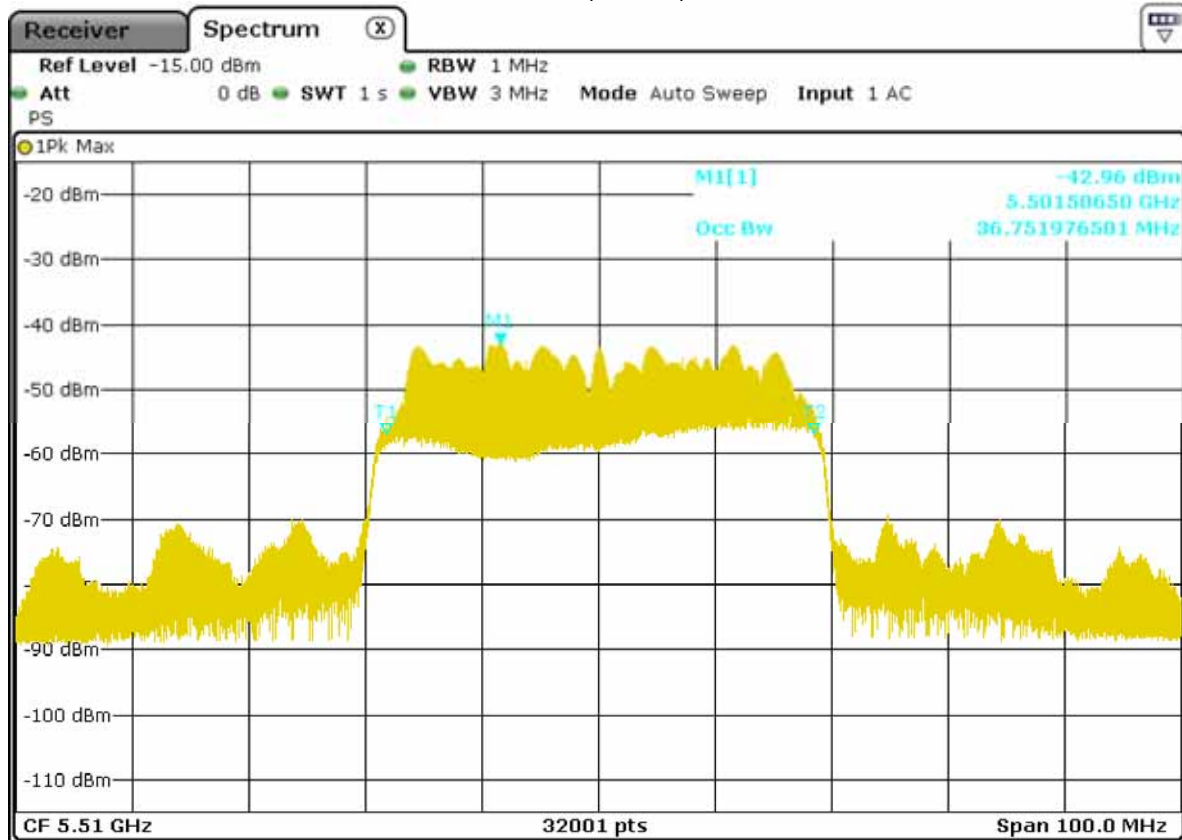
Single Burst of Radar Signal 5



Radar Signal 6

6.2.2 U-NII Detection Bandwidth

WHDI (40MHz)



U-NII 99% Channel bandwidth

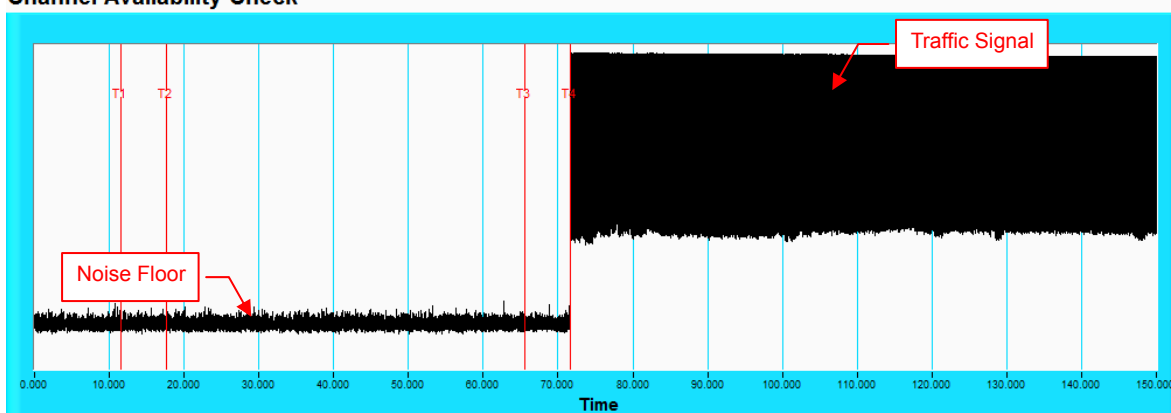
Detection Bandwidth Test - WHDI (40MHz)											
Radar Type 0											
EUT Frequency: 5510MHz											
EUT 99% Power bandwidth: 36.75MHz											
Detection bandwidth limit (100% of EUT 99% Power bandwidth): 36.75MHz											
Detection bandwidth (5529(FH) – 5490(FL)) : 39MHz											
Test Result : PASS											
Radar Frequency (MHz)	Trial Number / Detection										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5489	N	N	N	N	N	N	N	N	N	N	0
5490(FL)	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	90
5491	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5492	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5493	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5494	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5495	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5496	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5497	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5498	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5499	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5500	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5501	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5502	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5503	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5504	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5505	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5506	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5507	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5508	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5509	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5510	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5511	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5512	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5513	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5514	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5515	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5516	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5517	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5518	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5519	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5520	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5521	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5522	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5523	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5524	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5525	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5526	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5527	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5528	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	100
5529(FH)	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	90
5530	N	N	N	N	N	N	N	N	N	N	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

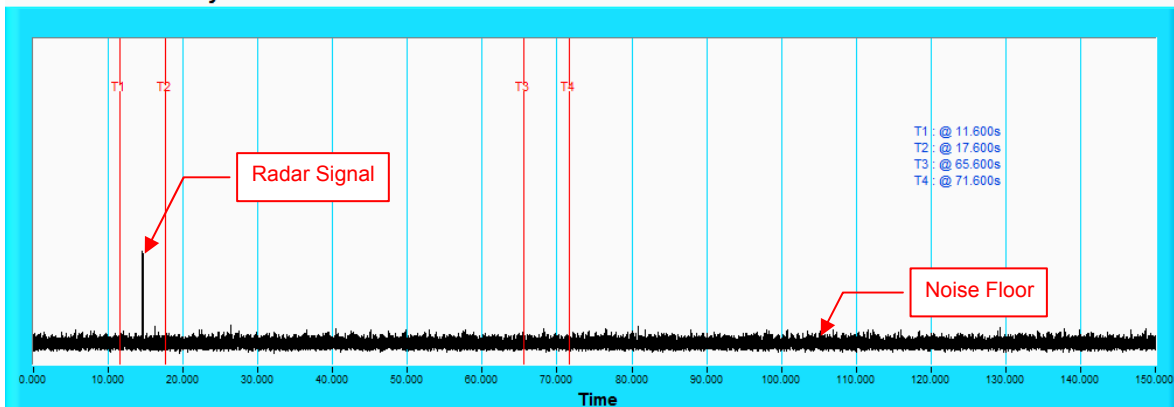
Initial Channel Availability Check Time Channel Availability Check



NOTE: T1 denotes the end of power-up time period is 11.6 second. T4 denotes the end of Channel Availability Check time is 71.6 second. Channel Availability Check time is equal to (T4 – T1) 60 seconds.

Radar Burst at the Beginning of the Channel Availability Check Time

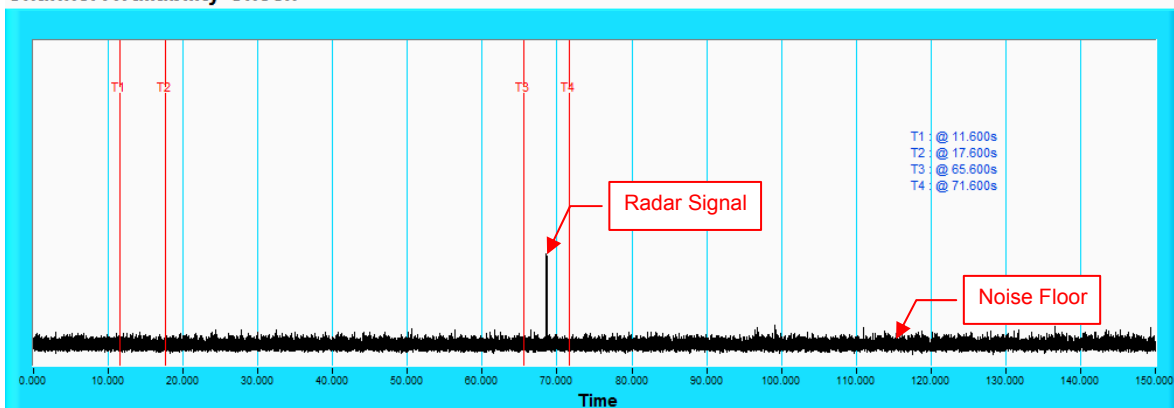
Channel Availability Check



NOTE: T1 denotes the end of power up time period is 11.6 second. T2 denotes 17.6 second, the radar burst was commenced within a 6 second window starting from the end of power-up sequence. T4 denotes the 71.6 second.

Radar Burst at the End of the Channel Availability Check Time

Channel Availability Check



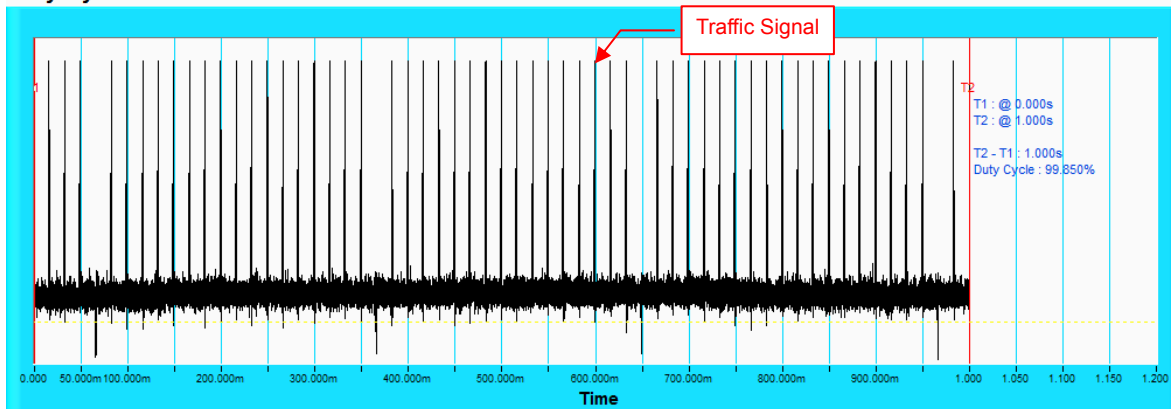
NOTE: T1 denotes the end of power up time period is 11.6 second. T3 denotes 65.6 second and radar burst was commenced within 54th second to 60th second window starting from the end of power-up sequence. T4 denotes the 71.6 second.

6.2.4 Channel Closing Transmission and Channel Move Time

Wireless Traffic Loading

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 $\left\{ \left\lceil \frac{1}{360} \right\rceil \cdot \left\lceil \frac{19 \cdot 10^6}{PRI_{\mu sec}} \right\rceil \right\}$	30	93.3
		Test B: 15 unique PRI values randomly selected within the range of 518-3066μsec, with a minimum increment of 1μsec, excluding PRI values selected in Test A			
2	1-5	150-230	23-29	30	96.7
3	6-10	200-500	16-18	30	93.3
4	11-20	200-500	12-16	30	93.3
Aggregate (Radar Types 1-4)				120	94.15

Table 2: Long Pulse Radar Test Waveform

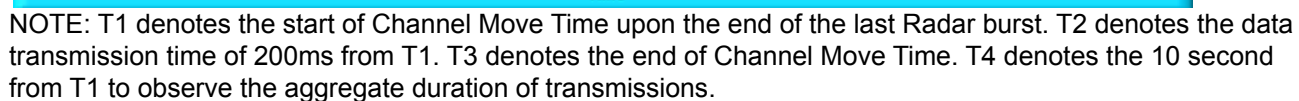
Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses per Burst	Number of Bursts	Number of Trials(Times)	Percentage of Successful Detection (%)
5	50-100	5-20	1000-2000	1-3	8-20	30	90

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.

Channel Closing Transmission Time & Channel Move Time



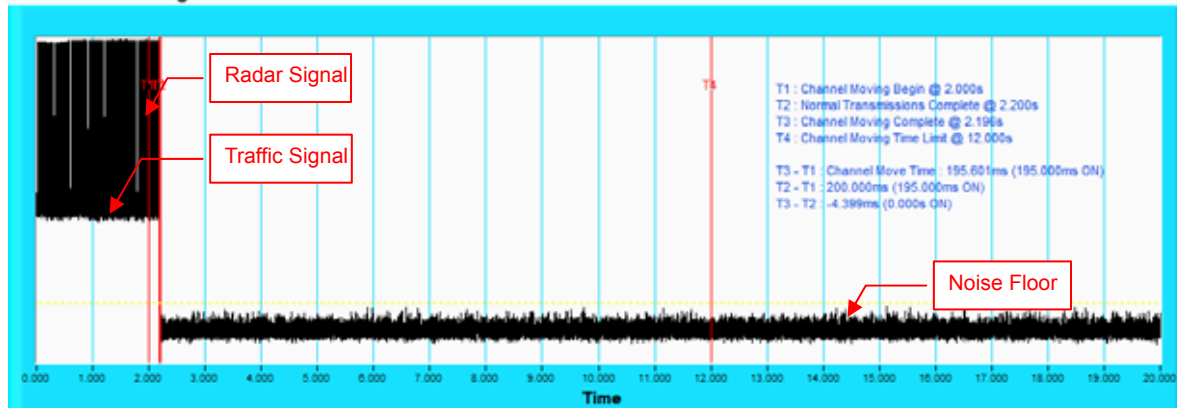
Channel Closing Transmission Time & Channel Move Time



Radar signal 1

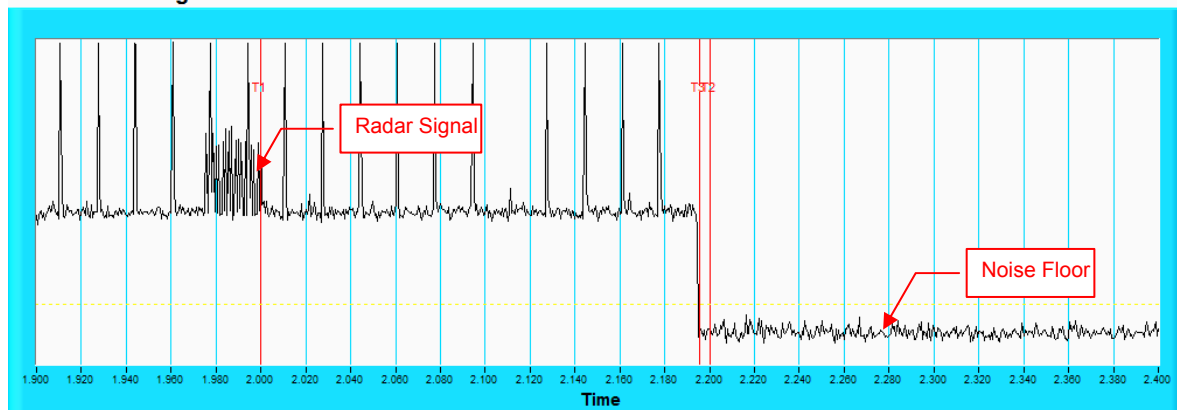
WHDI (40MHz)

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

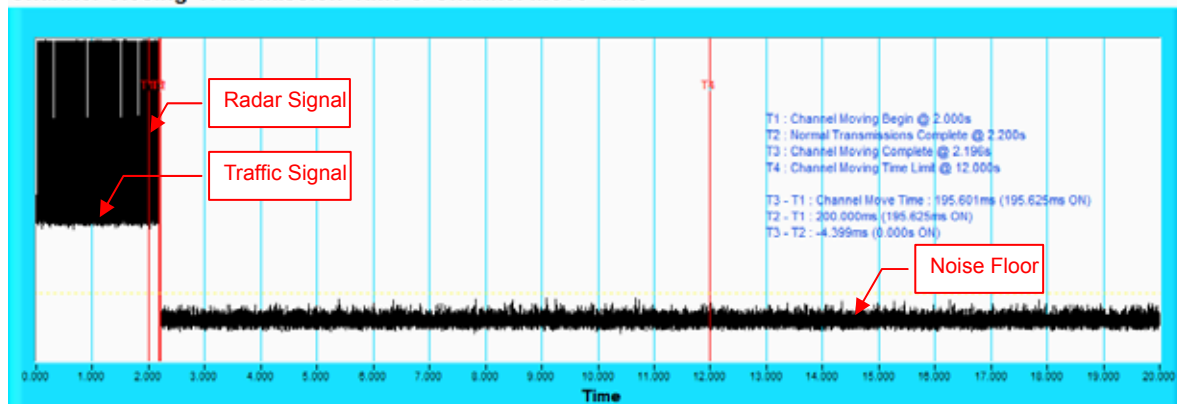


NOTE: Room-in of the first 500ms after radar signal applied.

Radar signal 2

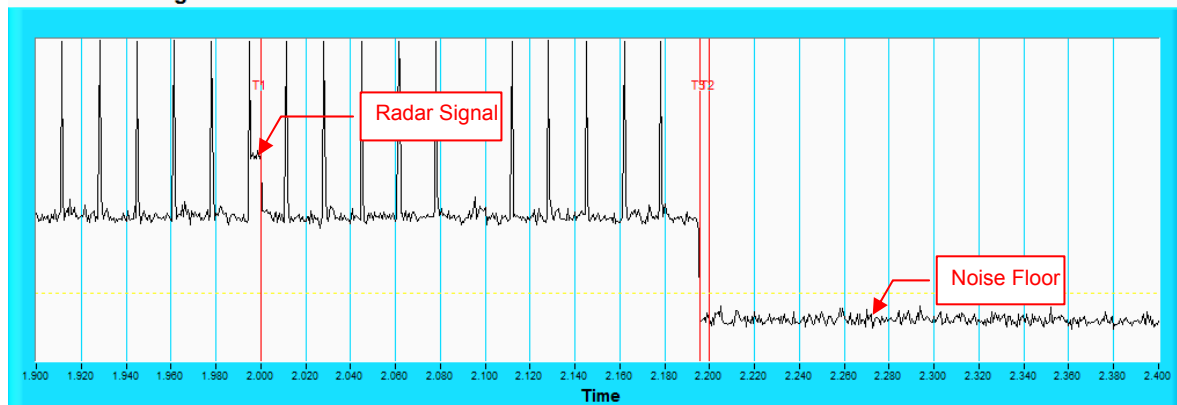
WHDI (40MHz)

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

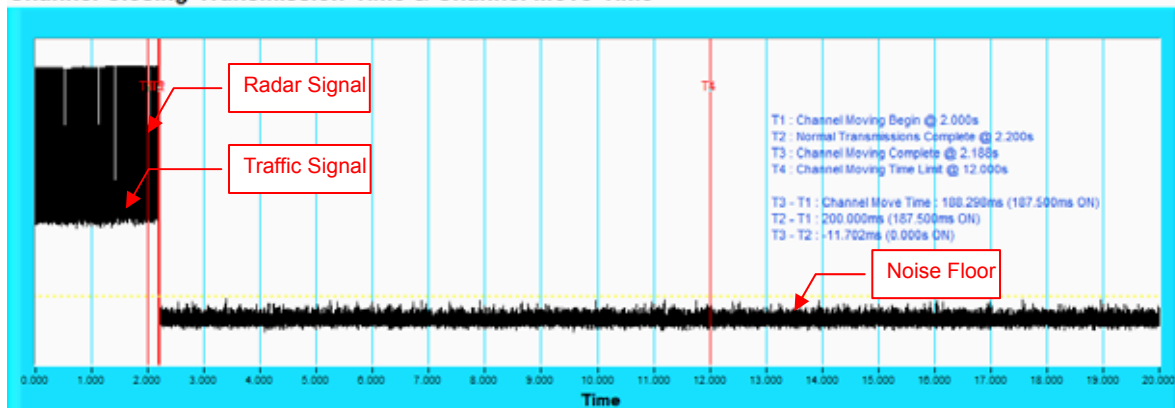


NOTE: Room-in of the first 500ms after radar signal applied.

Radar signal 3

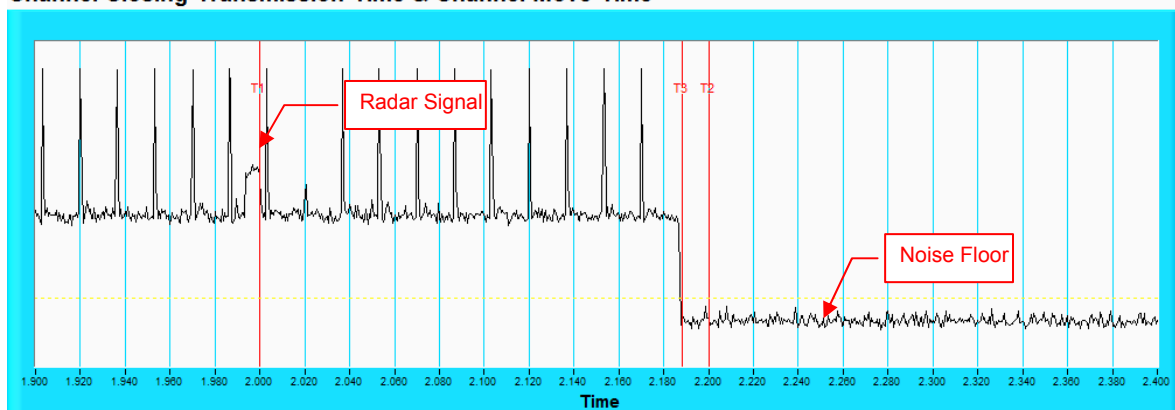
WHDI (40MHz)

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

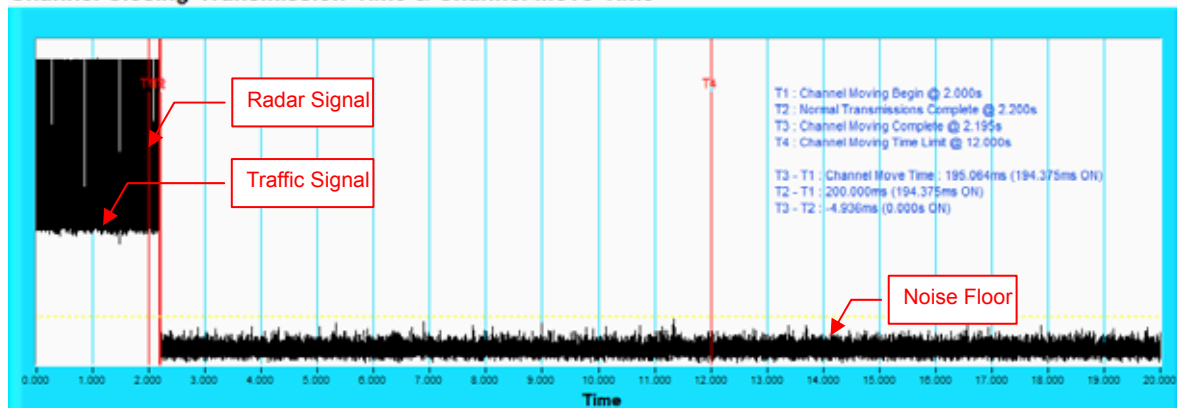


NOTE: Room-in of the first 500ms after radar signal applied.

Radar signal 4

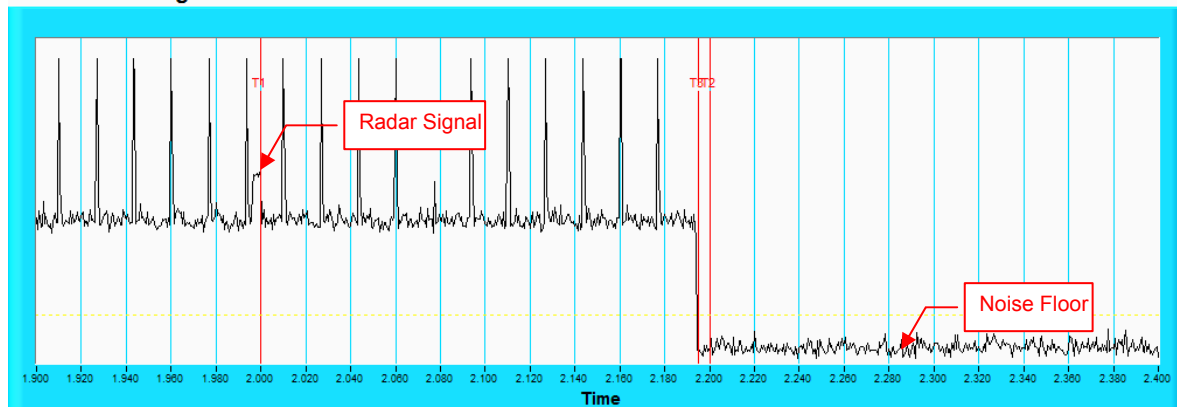
WHDI (40MHz)

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.

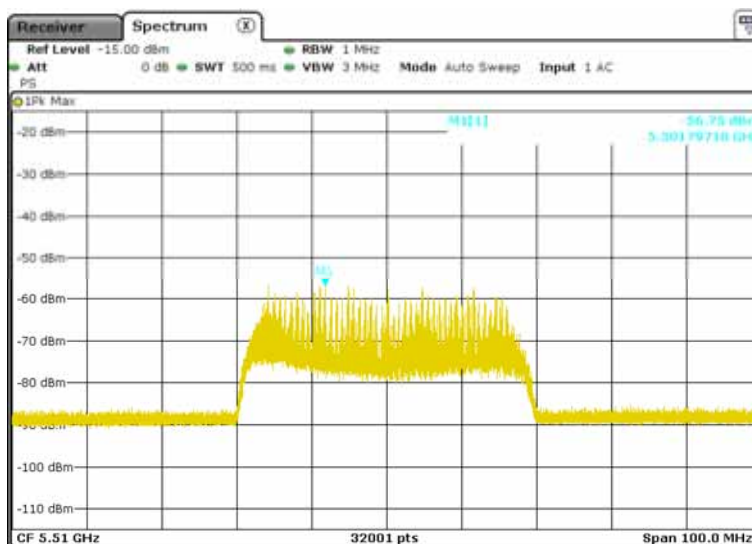
6.2.5 Non- Occupancy Period

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.

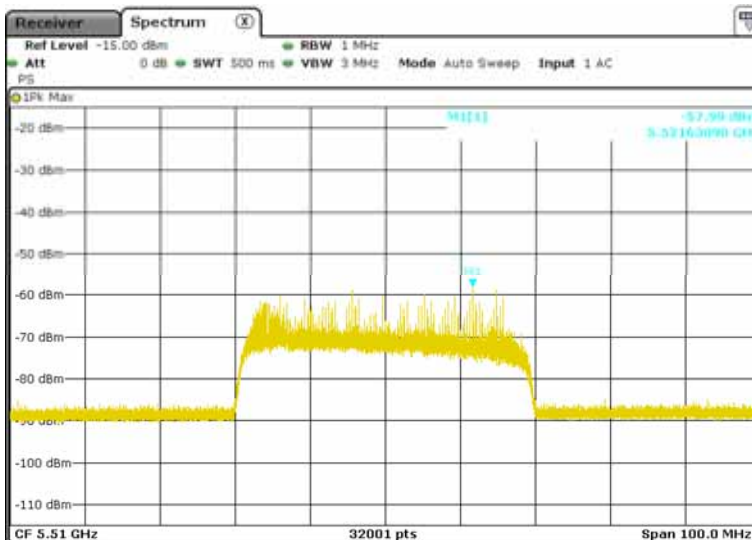
- 1) EUT links with client on 5510MHz.

Waveform of EUT links up with client



- 2) EUT receive video stream via client.

Waveform of transmission



3) Radar signal is applied to the master device and video stream stop immediately.

Radar 0



Radar 1



Radar 2



Radar 3



Radar 4



Radar 5



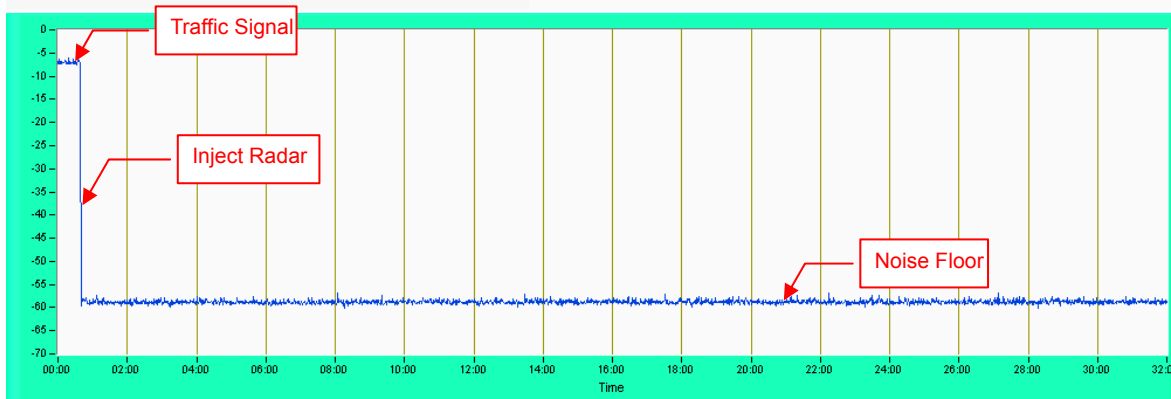
Radar 6



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

Plot of 30minutes period

WHDI (40MHz)



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.

6.2.7 Transmit power control (TPC)

TPC	E.I.R.P	RSS-247
	> 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

7. Information on 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.

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8. Annex-A

Annex A.1: The Detailed Radar Pattern and Statistical Performance

WHDI (40MHz)

Type 1 Radar Statistical Performances

Trial #	Pulses per Burst	Pulse Width (s)	PRI (s)	Radar Frequency	Detection
1	102	1.0u	518.0u	5516 MHz	Yes
2	99	1.0u	538.0u	5502 MHz	Yes
3	95	1.0u	558.0u	5528 MHz	Yes
4	92	1.0u	578.0u	5493 MHz	Yes
5	89	1.0u	598.0u	5500 MHz	Yes
6	86	1.0u	618.0u	5495 MHz	Yes
7	83	1.0u	638.0u	5505 MHz	Yes
8	81	1.0u	658.0u	5497 MHz	Yes
9	78	1.0u	678.0u	5523 MHz	Yes
10	76	1.0u	698.0u	5490 MHz	Yes
11	74	1.0u	718.0u	5496 MHz	Yes
12	72	1.0u	738.0u	5514 MHz	Yes
13	70	1.0u	758.0u	5505 MHz	Yes
14	68	1.0u	778.0u	5499 MHz	Yes
15	67	1.0u	798.0u	5508 MHz	Yes
16	71	1.0u	747.0u	5507 MHz	Yes
17	57	1.0u	927.0u	5503 MHz	Yes
18	97	1.0u	549.0u	5513 MHz	Yes
19	79	1.0u	669.0u	5511 MHz	Yes
20	64	1.0u	829.0u	5522 MHz	Yes
21	60	1.0u	889.0u	5499 MHz	No
22	82	1.0u	651.0u	5509 MHz	Yes
23	67	1.0u	791.0u	5513 MHz	Yes
24	22	1.0u	2.428m	5527 MHz	Yes
25	64	1.0u	833.0u	5528 MHz	Yes
26	92	1.0u	575.0u	5491 MHz	Yes
27	72	1.0u	735.0u	5500 MHz	Yes
28	62	1.0u	855.0u	5497 MHz	Yes
29	83	1.0u	637.0u	5498 MHz	Yes
30	59	1.0u	897.0u	5521 MHz	No

Detection Rate: 93.3 %



A O T

Type 2 Radar Statistical Performances

Trial #	Pulses per Burst	Pulse Width (s)	PRI (s)	Radar Frequency	Detection
1	24	1.8u	180.0u	5516 MHz	Yes
2	23	4.8u	213.0u	5502 MHz	Yes
3	24	1.2u	177.0u	5528 MHz	Yes
4	27	2.4u	206.0u	5493 MHz	Yes
5	26	1.5u	153.0u	5500 MHz	Yes
6	26	1.0u	158.0u	5495 MHz	Yes
7	25	4.4u	193.0u	5505 MHz	Yes
8	27	4.9u	167.0u	5497 MHz	Yes
9	28	3.9u	197.0u	5523 MHz	Yes
10	26	3.4u	152.0u	5490 MHz	Yes
11	26	3.0u	175.0u	5496 MHz	Yes
12	25	1.1u	185.0u	5514 MHz	Yes
13	24	3.9u	174.0u	5505 MHz	Yes
14	24	1.4u	175.0u	5499 MHz	Yes
15	28	2.5u	188.0u	5508 MHz	Yes
16	24	3.8u	209.0u	5507 MHz	Yes
17	28	1.6u	200.0u	5503 MHz	Yes
18	25	1.7u	187.0u	5513 MHz	Yes
19	25	4.8u	164.0u	5511 MHz	Yes
20	25	2.5u	172.0u	5522 MHz	Yes
21	29	4.7u	179.0u	5499 MHz	Yes
22	26	4.1u	181.0u	5509 MHz	Yes
23	25	4.1u	223.0u	5513 MHz	Yes
24	29	1.4u	195.0u	5527 MHz	Yes
25	26	1.2u	185.0u	5528 MHz	Yes
26	26	2.8u	171.0u	5491 MHz	No
27	27	4.5u	156.0u	5500 MHz	Yes
28	25	1.1u	203.0u	5497 MHz	Yes
29	29	1.3u	180.0u	5498 MHz	Yes
30	28	2.4u	207.0u	5521 MHz	Yes

Detection Rate: 96.7 %



Type 3 Radar Statistical Performances

Trial #	Pulses per Burst	Pulse Width (s)	PRI (s)	Radar Frequency	Detection
1	17	7.6u	336.0u	5516 MHz	Yes
2	18	7.7u	499.0u	5502 MHz	Yes
3	17	7.4u	451.0u	5528 MHz	No
4	17	9.3u	319.0u	5493 MHz	Yes
5	17	9.1u	293.0u	5500 MHz	Yes
6	17	8.0u	403.0u	5495 MHz	Yes
7	16	9.7u	481.0u	5505 MHz	Yes
8	17	7.6u	333.0u	5497 MHz	Yes
9	18	8.6u	348.0u	5523 MHz	Yes
10	18	6.6u	487.0u	5490 MHz	Yes
11	17	6.4u	217.0u	5496 MHz	Yes
12	18	6.9u	472.0u	5514 MHz	Yes
13	17	9.6u	210.0u	5505 MHz	Yes
14	16	9.6u	349.0u	5499 MHz	Yes
15	16	6.1u	271.0u	5508 MHz	Yes
16	18	7.8u	306.0u	5507 MHz	Yes
17	18	9.1u	431.0u	5503 MHz	Yes
18	18	9.2u	267.0u	5513 MHz	No
19	18	9.0u	230.0u	5511 MHz	Yes
20	17	6.6u	363.0u	5522 MHz	Yes
21	17	8.0u	358.0u	5499 MHz	Yes
22	16	8.5u	496.0u	5509 MHz	Yes
23	16	8.5u	472.0u	5513 MHz	Yes
24	18	9.0u	392.0u	5527 MHz	Yes
25	18	9.8u	284.0u	5528 MHz	Yes
26	18	7.0u	231.0u	5491 MHz	Yes
27	17	8.6u	348.0u	5500 MHz	Yes
28	17	8.2u	293.0u	5497 MHz	Yes
29	17	8.9u	499.0u	5498 MHz	Yes
30	17	7.2u	264.0u	5521 MHz	Yes

Detection Rate: 93.3 %



A O T

Type 4 Radar Statistical Performances

Trial #	Pulses per Burst	Pulse Width (s)	PRI (s)	Radar Frequency	Detection
1	15	19.6u	390.0u	5516 MHz	Yes
2	12	12.2u	297.0u	5502 MHz	Yes
3	16	16.1u	379.0u	5528 MHz	Yes
4	14	12.9u	383.0u	5493 MHz	Yes
5	12	12.8u	409.0u	5500 MHz	Yes
6	16	18.7u	486.0u	5495 MHz	Yes
7	13	14.8u	490.0u	5505 MHz	Yes
8	13	12.8u	369.0u	5497 MHz	Yes
9	14	15.4u	298.0u	5523 MHz	Yes
10	14	13.8u	312.0u	5490 MHz	Yes
11	16	11.3u	472.0u	5496 MHz	Yes
12	15	16.1u	443.0u	5514 MHz	Yes
13	13	19.6u	317.0u	5505 MHz	Yes
14	14	12.4u	245.0u	5499 MHz	Yes
15	13	11.1u	277.0u	5508 MHz	Yes
16	14	16.6u	235.0u	5507 MHz	Yes
17	13	18.0u	204.0u	5503 MHz	Yes
18	16	11.8u	266.0u	5513 MHz	Yes
19	12	12.4u	318.0u	5511 MHz	Yes
20	12	14.3u	463.0u	5522 MHz	Yes
21	14	14.3u	472.0u	5499 MHz	Yes
22	12	15.2u	434.0u	5509 MHz	Yes
23	13	13.9u	395.0u	5513 MHz	Yes
24	13	15.0u	457.0u	5527 MHz	Yes
25	14	13.2u	343.0u	5528 MHz	Yes
26	15	14.5u	387.0u	5491 MHz	Yes
27	16	11.4u	444.0u	5500 MHz	Yes
28	14	19.4u	317.0u	5497 MHz	Yes
29	16	16.4u	429.0u	5498 MHz	Yes
30	13	13.7u	335.0u	5521 MHz	Yes

Detection Rate: 100 %



Type 5 Radar Statistical Performances

Trial #	Test Signal Name	Detection
1	LP_Signal_01	Yes
2	LP_Signal_02	Yes
3	LP_Signal_03	Yes
4	LP_Signal_04	Yes
5	LP_Signal_05	Yes
6	LP_Signal_06	No
7	LP_Signal_07	Yes
8	LP_Signal_08	Yes
9	LP_Signal_09	Yes
10	LP_Signal_10	Yes
11	LP_Signal_11	Yes
12	LP_Signal_12	Yes
13	LP_Signal_13	Yes
14	LP_Signal_14	Yes
15	LP_Signal_15	Yes
16	LP_Signal_16	Yes
17	LP_Signal_17	Yes
18	LP_Signal_18	Yes
19	LP_Signal_19	Yes
20	LP_Signal_20	Yes
21	LP_Signal_21	Yes
22	LP_Signal_22	No
23	LP_Signal_23	Yes
24	LP_Signal_24	Yes
25	LP_Signal_25	Yes
26	LP_Signal_26	Yes
27	LP_Signal_27	Yes
28	LP_Signal_28	Yes
29	LP_Signal_29	Yes
30	LP_Signal_30	Yes

Detection Rate: 90 %



Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_01

Number of Bursts in Trial: 20

Chirp Center Frequency: 5495MHz

Burst	Pulses per Burst	Chirp (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	14M	64.2u	1.059m	-	552.7m
2	2	8M	83.1u	1.801m	-	396.6m
3	3	8M	90.3u	1.063m	1.369m	567.2m
4	2	11M	73.1u	1.174m	-	467.5m
5	1	15M	57.9u	-	-	374.5m
6	1	13M	88.6u	-	-	468.9m
7	1	5M	61.4u	-	-	18.80m
8	2	10M	73.5u	1.411m	-	530.1m
9	1	9M	59.7u	-	-	186.2m
10	3	7M	98.9u	1.144m	1.052m	254.1m
11	1	18M	88.7u	-	-	572.9m
12	3	10M	91.3u	1.260m	1.620m	208.4m
13	2	8M	93.9u	1.418m	-	115.7m
14	2	6M	68.9u	1.666m	-	187.7m
15	2	5M	54.0u	1.496m	-	408.2m
16	1	11M	51.9u	-	-	272.2m
17	2	13M	70.7u	1.362m	-	305.8m
18	2	7M	94.6u	990.4u	-	276.4m
19	2	14M	56.8u	1.555m	-	582.7m
20	3	16M	89.0u	1.034m	1.359m	313.1m



Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_02

Number of Bursts in Trial: 17

Chirp Center Frequency: 5496MHz

Burst	Pulses per Burst	Chirp (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	1	12M	97.3u	-	-	386.4m
2	2	17M	95.9u	1.561m	-	634.5m
3	2	9M	91.0u	1.868m	-	154.5m
4	2	11M	95.9u	1.606m	-	297.9m
5	2	17M	52.7u	1.600m	-	600.3m
6	3	6M	67.6u	1.740m	1.786m	594.6m
7	2	16M	60.7u	1.815m	-	95.42m
8	2	11M	85.0u	1.388m	-	466.7m
9	3	17M	58.5u	1.179m	1.312m	520.7m
10	2	17M	98.6u	1.285m	-	6.999m
11	1	17M	77.5u	-	-	57.33m
12	2	18M	54.5u	1.143m	-	617.2m
13	3	5M	98.5u	1.131m	1.425m	313.3m
14	2	9M	97.1u	1.600m	-	242.7m
15	2	16M	67.2u	1.565m	-	108.8m
16	2	6M	63.8u	1.756m	-	29.45m
17	2	12M	80.6u	1.132m	-	140.5m



Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_03

Number of Bursts in Trial: 16

Chirp Center Frequency: 5497MHz

Burst	Pulses per Burst	Chirp (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	18M	83.8u	1.805m	-	153.0m
2	2	17M	84.9u	1.230m	-	589.8m
3	2	11M	68.7u	1.256m	-	113.0m
4	2	8M	71.4u	1.925m	-	733.4m
5	1	14M	57.9u	-	-	480.1m
6	2	14M	53.1u	1.516m	-	213.7m
7	2	16M	71.2u	1.253m	-	97.67m
8	1	20M	55.4u	-	-	108.3m
9	2	17M	64.0u	1.037m	-	50.59m
10	2	9M	62.6u	1.315m	-	63.70m
11	2	13M	74.1u	988.9u	-	454.2m
12	1	19M	57.1u	-	-	708.1m
13	3	6M	55.6u	1.374m	1.219m	34.45m
14	2	7M	93.5u	1.215m	-	427.0m
15	2	19M	76.5u	985.5u	-	172.4m
16	3	6M	84.2u	1.750m	1.713m	584.7m



Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_04

Number of Bursts in Trial: 19

Chirp Center Frequency: 5498MHz

Burst	Pulses per Burst	Chirp (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	16M	91.1u	1.711m	-	180.6m
2	1	14M	88.7u	-	-	95.10m
3	3	14M	93.8u	1.149m	991.2u	308.7m
4	2	17M	99.9u	1.336m	-	61.92m
5	1	12M	52.3u	-	-	604.1m
6	3	7M	99.9u	1.789m	954.1u	338.3m
7	1	7M	86.6u	-	-	37.01m
8	2	10M	99.1u	946.9u	-	27.25m
9	2	11M	63.0u	1.442m	-	434.6m
10	2	7M	96.6u	1.784m	-	116.2m
11	3	15M	62.1u	1.919m	1.582m	70.62m
12	1	18M	58.8u	-	-	546.1m
13	2	15M	62.2u	1.731m	-	451.3m
14	2	7M	59.4u	1.667m	-	431.0m
15	3	8M	51.8u	1.334m	1.553m	57.15m
16	2	10M	67.4u	1.044m	-	376.2m
17	2	14M	53.2u	1.475m	-	395.5m
18	3	19M	89.2u	1.134m	1.842m	545.8m
19	3	9M	64.8u	1.443m	1.515m	415.1m



Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_05

Number of Bursts in Trial: 9

Chirp Center Frequency: 5499MHz

Burst	Pulses per Burst	Chirp (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	19M	98.1u	1.776m	-	253.4m
2	2	15M	56.2u	1.467m	-	1.084
3	2	6M	75.7u	1.367m	-	632.9m
4	2	6M	69.8u	1.860m	-	958.1m
5	3	18M	77.5u	1.330m	1.052m	1.122
6	1	18M	63.9u	-	-	110.3m
7	2	19M	94.4u	1.826m	-	636.9m
8	2	20M	64.5u	1.887m	-	1.019
9	3	7M	74.8u	1.011m	1.304m	1.126



Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_06

Number of Bursts in Trial: 13

Chirp Center Frequency: 5500MHz

Burst	Pulses per Burst	Chirp (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	1	9M	85.9u	-	-	577.7m
2	2	20M	73.0u	1.741m	-	418.3m
3	2	8M	65.8u	1.239m	-	875.0m
4	2	20M	79.4u	1.234m	-	633.5m
5	3	11M	56.5u	1.399m	1.630m	869.1m
6	2	9M	80.4u	1.289m	-	77.73m
7	3	10M	97.9u	967.1u	1.454m	512.3m
8	2	12M	73.8u	1.353m	-	179.1m
9	3	7M	56.5u	1.168m	1.553m	232.8m
10	3	16M	92.3u	1.440m	1.466m	457.5m
11	1	19M	62.3u	-	-	828.0m
12	3	16M	81.6u	1.374m	1.655m	583.6m
13	2	14M	63.2u	1.076m	-	239.3m



Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_07

Number of Bursts in Trial: 19

Chirp Center Frequency: 5501MHz

Burst	Pulses per Burst	Chirp (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	1	19M	59.5u	-	-	156.8m
2	2	15M	83.6u	1.578m	-	511.4m
3	3	17M	60.9u	1.153m	1.606m	416.5m
4	2	11M	93.0u	1.830m	-	141.7m
5	2	10M	59.6u	1.831m	-	171.5m
6	1	16M	65.1u	-	-	329.3m
7	2	8M	50.2u	1.826m	-	333.2m
8	3	19M	68.1u	1.857m	1.003m	483.2m
9	2	9M	99.6u	1.794m	-	393.7m
10	3	19M	78.2u	1.683m	1.446m	229.9m
11	1	11M	65.9u	-	-	98.38m
12	2	17M	66.1u	1.432m	-	622.7m
13	2	15M	97.3u	1.081m	-	433.4m
14	1	15M	58.3u	-	-	453.0m
15	2	6M	75.0u	1.732m	-	517.2m
16	1	7M	64.9u	-	-	396.3m
17	3	9M	71.7u	1.422m	1.586m	214.5m
18	2	12M	88.9u	1.520m	-	69.25m
19	3	5M	58.1u	1.068m	1.719m	304.9m



Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_08

Number of Bursts in Trial: 17

Chrip Center Frequency: 5502MHz

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	14M	84.3u	1.190m	-	30.69m
2	2	17M	86.0u	1.872m	-	397.6m
3	2	13M	66.2u	1.325m	-	383.1m
4	3	5M	92.2u	1.576m	1.324m	693.6m
5	2	10M	96.1u	1.351m	-	410.5m
6	3	16M	84.8u	1.699m	1.501m	528.4m
7	2	18M	60.5u	1.450m	-	66.48m
8	1	6M	81.5u	-	-	128.5m
9	2	18M	67.0u	1.337m	-	413.2m
10	2	10M	60.8u	1.745m	-	457.9m
11	1	8M	82.9u	-	-	151.3m
12	2	7M	50.1u	1.015m	-	329.0m
13	1	5M	66.1u	-	-	128.9m
14	2	6M	95.0u	1.264m	-	522.3m
15	2	7M	50.9u	1.720m	-	268.9m
16	3	14M	58.9u	1.067m	1.686m	458.1m
17	1	11M	70.1u	-	-	389.6m



Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_09

Number of Bursts in Trial: 11

Chirp Center Frequency: 5503MHz

Burst	Pulses per Burst	Chirp (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	5M	75.0u	1.721m	-	1.042
2	2	11M	59.5u	1.518m	-	333.8m
3	2	12M	67.0u	1.913m	-	269.9m
4	3	19M	85.7u	1.249m	1.364m	37.14m
5	3	8M	64.6u	1.181m	1.751m	408.1m
6	2	10M	92.5u	933.5u	-	934.1m
7	2	7M	78.8u	1.629m	-	800.6m
8	2	8M	80.8u	1.888m	-	787.2m
9	2	10M	64.6u	1.250m	-	578.8m
10	1	16M	51.7u	-	-	116.7m
11	1	15M	63.5u	-	-	438.5m



Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_10

Number of Bursts in Trial: 19

Chrip Center Frequency: 5504MHz

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	3	19M	63.5u	1.520m	1.316m	157.8m
2	2	6M	74.0u	1.618m	-	423.4m
3	2	16M	77.1u	1.676m	-	351.2m
4	1	13M	79.8u	-	-	427.6m
5	3	9M	96.7u	1.475m	1.718m	411.8m
6	2	12M	65.2u	1.171m	-	207.5m
7	2	10M	85.0u	1.357m	-	72.16m
8	2	8M	96.0u	1.637m	-	426.8m
9	2	19M	91.5u	1.602m	-	333.1m
10	2	13M	70.1u	981.9u	-	530.2m
11	2	15M	74.8u	1.679m	-	297.3m
12	2	7M	64.8u	1.916m	-	9.109m
13	1	19M	64.1u	-	-	104.0m
14	3	15M	88.4u	1.629m	1.543m	13.68m
15	2	6M	98.8u	1.572m	-	91.11m
16	2	13M	66.3u	1.885m	-	325.0m
17	2	13M	63.1u	1.637m	-	149.0m
18	2	16M	64.8u	1.666m	-	28.55m
19	3	16M	94.5u	1.298m	1.717m	314.5m



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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_11

Number of Bursts in Trial: 20

Chrip Center Frequency: 5505MHz

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	16M	90.9u	1.526m	-	525.6m
2	2	19M	63.2u	1.091m	-	67.59m
3	1	13M	95.7u	-	-	197.3m
4	2	20M	96.4u	1.656m	-	68.64m
5	1	5M	65.2u	-	-	199.6m
6	1	7M	83.5u	-	-	540.0m
7	3	19M	95.9u	1.569m	1.135m	296.3m
8	3	13M	56.5u	1.204m	1.114m	166.0m
9	2	17M	83.5u	1.480m	-	471.5m
10	2	10M	63.7u	1.569m	-	123.8m
11	2	16M	76.7u	1.703m	-	340.3m
12	2	15M	61.2u	1.904m	-	294.1m
13	3	17M	56.9u	1.754m	979.1u	241.7m
14	2	17M	58.5u	1.564m	-	535.4m
15	1	18M	61.9u	-	-	510.0m
16	2	9M	83.9u	1.168m	-	172.9m
17	1	9M	52.4u	-	-	173.5m
18	2	5M	89.8u	1.425m	-	138.8m
19	2	10M	97.4u	1.793m	-	68.37m
20	3	8M	71.3u	961.7u	1.411m	42.34m



Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_12

Number of Bursts in Trial: 20

Chrip Center Frequency: 5506MHz

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	13M	53.9u	1.060m	-	197.3m
2	2	16M	60.5u	1.602m	-	415.6m
3	1	7M	66.1u	-	-	125.7m
4	3	15M	55.0u	1.585m	1.629m	415.0m
5	2	18M	92.3u	1.542m	-	437.0m
6	3	10M	85.7u	961.3u	1.733m	41.45m
7	2	19M	72.6u	1.230m	-	150.5m
8	1	19M	81.5u	-	-	490.2m
9	3	10M	67.8u	1.053m	1.336m	31.63m
10	2	7M	86.7u	1.287m	-	379.2m
11	2	6M	58.1u	1.849m	-	421.9m
12	2	8M	74.4u	1.788m	-	319.3m
13	2	16M	74.3u	1.595m	-	101.9m
14	2	12M	81.0u	1.069m	-	79.78m
15	2	13M	97.4u	1.742m	-	227.5m
16	3	13M	89.1u	1.275m	1.052m	551.6m
17	2	17M	94.0u	1.122m	-	23.70m
18	3	7M	98.7u	1.723m	1.061m	143.0m
19	3	9M	81.2u	1.199m	1.830m	118.2m
20	2	18M	69.6u	1.738m	-	261.1m



Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_13

Number of Bursts in Trial: 19

Chrip Center Frequency: 5507MHz

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	7M	69.5u	1.086m	-	252.5m
2	2	8M	54.9u	1.425m	-	84.94m
3	3	16M	64.1u	1.346m	1.245m	258.3m
4	2	12M	91.3u	1.034m	-	258.5m
5	2	13M	69.2u	1.374m	-	483.3m
6	3	15M	90.9u	1.239m	991.1u	262.4m
7	3	15M	66.7u	1.838m	1.830m	61.01m
8	2	9M	96.3u	1.837m	-	183.0m
9	2	19M	79.4u	1.684m	-	198.7m
10	2	17M	84.0u	1.297m	-	516.2m
11	1	9M	95.7u	-	-	486.3m
12	2	19M	53.4u	1.125m	-	237.4m
13	3	12M	89.1u	1.676m	1.215m	94.13m
14	3	13M	97.7u	906.3u	1.712m	157.8m
15	3	11M	84.6u	1.459m	1.361m	497.8m
16	2	8M	51.0u	976.0u	-	312.8m
17	1	15M	73.9u	-	-	96.07m
18	2	17M	97.5u	1.287m	-	192.4m
19	3	13M	53.2u	1.577m	1.069m	579.2m



Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_14

Number of Bursts in Trial: 8

Chirp Center Frequency: 5508MHz

Burst	Pulses per Burst	Chirp (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	3	14M	87.1u	1.765m	1.565m	61.39m
2	2	12M	82.3u	1.197m	-	1.371
3	2	14M	58.9u	1.114m	-	1.471
4	2	14M	93.1u	1.005m	-	1.080
5	1	14M	97.1u	-	-	322.3m
6	2	18M	74.9u	1.272m	-	1.219
7	1	17M	60.4u	-	-	365.3m
8	2	16M	55.7u	1.388m	-	502.8m



Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_15

Number of Bursts in Trial: 12

Chirp Center Frequency: 5509MHz

Burst	Pulses per Burst	Chirp (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	10M	79.9u	1.281m	-	809.3m
2	1	8M	75.3u	-	-	799.0m
3	3	12M	68.3u	1.808m	999.7u	834.5m
4	1	7M	52.6u	-	-	42.61m
5	2	16M	80.5u	1.105m	-	898.0m
6	3	5M	56.7u	1.669m	1.257m	284.5m
7	2	12M	53.6u	1.109m	-	636.5m
8	3	15M	93.0u	910.0u	1.678m	213.6m
9	3	15M	55.3u	1.406m	1.258m	95.26m
10	1	17M	68.6u	-	-	765.3m
11	2	9M	54.4u	1.828m	-	736.0m
12	2	17M	73.1u	1.012m	-	829.9m



Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_16

Number of Bursts in Trial: 20

Chirp Center Frequency: 5510MHz

Burst	Pulses per Burst	Chirp (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	1	18M	54.3u	-	-	356.1m
2	3	14M	94.5u	1.247m	1.522m	580.2m
3	1	8M	75.9u	-	-	462.9m
4	2	7M	62.9u	1.840m	-	509.7m
5	2	11M	89.9u	1.425m	-	347.3m
6	1	12M	80.6u	-	-	174.9m
7	2	12M	63.0u	1.759m	-	189.8m
8	1	5M	83.4u	-	-	93.20m
9	1	16M	57.9u	-	-	249.4m
10	2	8M	52.0u	1.678m	-	72.75m
11	1	13M	92.2u	-	-	360.0m
12	2	9M	75.2u	1.910m	-	151.4m
13	3	16M	90.6u	1.807m	1.184m	419.1m
14	2	8M	62.2u	954.8u	-	32.33m
15	3	19M	88.8u	1.407m	1.201m	376.7m
16	1	13M	50.1u	-	-	134.7m
17	1	9M	62.0u	-	-	276.9m
18	2	20M	96.8u	1.292m	-	137.9m
19	3	14M	69.7u	1.184m	955.3u	413.2m
20	1	14M	82.8u	-	-	337.5m



Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_17

Number of Bursts in Trial: 12

Chirp Center Frequency: 5511MHz

Burst	Pulses per Burst	Chirp (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	16M	91.2u	1.553m	-	323.4m
2	2	7M	51.9u	1.276m	-	826.9m
3	2	8M	89.5u	1.189m	-	638.6m
4	2	6M	78.0u	942.0u	-	764.5m
5	1	10M	68.4u	-	-	516.7m
6	2	5M	95.1u	1.893m	-	458.3m
7	2	7M	53.9u	1.781m	-	989.4m
8	2	15M	58.1u	1.622m	-	356.4m
9	3	11M	51.1u	1.573m	1.866m	41.67m
10	3	11M	51.5u	1.401m	1.690m	793.7m
11	3	20M	89.4u	1.398m	913.6u	249.5m
12	3	13M	92.8u	1.707m	1.073m	812.1m



Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_18

Number of Bursts in Trial: 9

Chirp Center Frequency: 5512MHz

Burst	Pulses per Burst	Chirp (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	8M	65.5u	1.612m	-	1.059
2	1	10M	85.3u	-	-	733.3m
3	3	17M	68.3u	1.031m	1.269m	977.9m
4	1	16M	59.1u	-	-	1.017
5	2	13M	96.2u	1.661m	-	34.33m
6	2	9M	59.6u	1.423m	-	86.83m
7	2	12M	70.0u	1.724m	-	51.12m
8	2	7M	50.5u	1.405m	-	814.3m
9	2	10M	60.8u	1.598m	-	693.0m



Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_19

Number of Bursts in Trial: 11

Chirp Center Frequency: 5513MHz

Burst	Pulses per Burst	Chirp (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	1	10M	80.6u	-	-	652.2m
2	3	14M	84.1u	1.477m	1.702m	794.9m
3	2	11M	97.0u	1.160m	-	273.1m
4	1	17M	92.2u	-	-	1.077
5	1	15M	78.6u	-	-	39.50m
6	3	13M	70.2u	1.658m	1.759m	533.6m
7	2	12M	87.0u	1.572m	-	657.1m
8	2	7M	72.8u	1.747m	-	844.5m
9	2	8M	92.9u	1.267m	-	670.0m
10	1	15M	59.1u	-	-	58.26m
11	2	7M	76.0u	1.305m	-	620.3m



Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_20

Number of Bursts in Trial: 12

Chirp Center Frequency: 5514MHz

Burst	Pulses per Burst	Chirp (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	1	19M	57.3u	-	-	533.5m
2	1	19M	54.9u	-	-	487.2m
3	2	17M	61.0u	1.458m	-	407.8m
4	3	7M	64.2u	1.389m	1.586m	815.5m
5	2	11M	90.4u	1.345m	-	807.4m
6	3	7M	81.3u	1.278m	1.599m	384.2m
7	2	15M	51.9u	1.350m	-	477.5m
8	3	18M	73.9u	1.676m	1.256m	840.9m
9	2	10M	83.6u	1.801m	-	594.4m
10	2	15M	63.0u	1.835m	-	505.6m
11	3	19M	82.3u	1.894m	1.321m	28.20m
12	1	16M	97.0u	-	-	660.1m



Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_21

Number of Bursts in Trial: 16

Chirp Center Frequency: 5515MHz

Burst	Pulses per Burst	Chirp (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	1	15M	85.0u	-	-	302.0m
2	2	16M	90.0u	1.364m	-	295.1m
3	2	8M	60.0u	1.226m	-	304.6m
4	2	20M	67.8u	1.419m	-	722.8m
5	1	11M	89.2u	-	-	571.1m
6	1	12M	98.0u	-	-	711.1m
7	1	12M	76.9u	-	-	147.8m
8	3	14M	83.2u	1.026m	1.726m	289.0m
9	1	18M	93.9u	-	-	430.8m
10	2	14M	67.8u	1.504m	-	150.2m
11	1	14M	54.5u	-	-	729.7m
12	2	16M	93.4u	1.835m	-	624.5m
13	1	17M	66.0u	-	-	70.58m
14	3	15M	74.5u	958.5u	1.026m	199.2m
15	2	14M	62.8u	1.734m	-	471.7m
16	2	5M	91.4u	1.054m	-	672.3m



Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_22

Number of Bursts in Trial: 11

Chirp Center Frequency: 5516MHz

Burst	Pulses per Burst	Chirp (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	11M	80.8u	1.059m	-	764.1m
2	2	10M	66.5u	1.599m	-	411.4m
3	3	14M	53.6u	1.104m	1.106m	645.2m
4	3	14M	65.4u	1.922m	1.016m	407.2m
5	3	8M	78.0u	1.465m	1.446m	1.007
6	2	9M	59.6u	1.123m	-	494.9m
7	2	14M	50.6u	1.589m	-	478.0m
8	1	19M	58.8u	-	-	651.0m
9	2	9M	56.0u	1.569m	-	474.0m
10	3	7M	87.7u	1.149m	1.000m	1.033
11	1	16M	50.6u	-	-	240.7m

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_23

Number of Bursts in Trial: 13

Chrip Center Frequency: 5517MHz

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	15M	82.0u	1.872m	-	346.5m
2	2	10M	96.7u	1.596m	-	295.1m
3	2	15M	96.3u	1.520m	-	903.8m
4	2	13M	51.1u	1.455m	-	912.6m
5	3	15M	97.6u	1.676m	1.426m	30.55m
6	2	10M	89.9u	1.313m	-	241.2m
7	3	16M	54.6u	968.4u	961.4u	181.6m
8	2	11M	79.4u	1.149m	-	167.3m
9	3	13M	84.5u	1.107m	1.504m	803.5m
10	2	19M	75.2u	1.419m	-	263.5m
11	3	6M	68.2u	1.201m	1.520m	599.2m
12	3	5M	66.5u	1.683m	1.591m	654.5m
13	3	10M	96.1u	1.150m	1.621m	495.7m

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_24

Number of Bursts in Trial: 9

Chrip Center Frequency: 5518MHz

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	3	13M	99.4u	1.649m	992.6u	956.0m
2	2	15M	78.5u	1.058m	-	726.3m
3	2	16M	63.5u	1.497m	-	34.09m
4	3	9M	57.5u	1.399m	1.696m	434.2m
5	2	11M	94.2u	1.305m	-	751.6m
6	2	10M	57.8u	1.068m	-	837.2m
7	2	7M	60.4u	1.727m	-	209.6m
8	1	15M	76.5u	-	-	1.148
9	2	18M	62.8u	1.288m	-	1.201

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_25

Number of Bursts in Trial: 11

Chirp Center Frequency: 5519MHz

Burst	Pulses per Burst	Chirp (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	3	16M	78.7u	1.329m	1.448m	601.3m
2	3	17M	85.5u	1.223m	1.422m	287.5m
3	2	7M	85.3u	1.192m	-	169.2m
4	2	14M	94.2u	1.824m	-	74.75m
5	1	18M	71.6u	-	-	333.2m
6	1	11M	59.2u	-	-	37.23m
7	2	14M	67.8u	1.387m	-	645.7m
8	1	7M	53.4u	-	-	219.7m
9	2	14M	82.3u	1.820m	-	795.7m
10	1	13M	55.2u	-	-	439.1m
11	3	6M	64.1u	1.358m	1.151m	796.2m

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_26

Number of Bursts in Trial: 10

Chirp Center Frequency: 5520MHz

Burst	Pulses per Burst	Chirp (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	3	15M	69.2u	1.694m	1.760m	52.91m
2	3	17M	59.0u	1.410m	1.037m	1.168
3	3	11M	78.5u	1.643m	1.190m	243.2m
4	2	6M	82.8u	1.640m	-	1.140
5	1	12M	74.2u	-	-	861.1m
6	2	8M	90.1u	1.869m	-	1.099
7	2	10M	73.0u	1.352m	-	407.3m
8	2	14M	86.8u	1.238m	-	316.1m
9	3	6M	67.7u	1.261m	1.104m	614.7m
10	2	13M	63.3u	1.234m	-	579.9m

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_27

Number of Bursts in Trial: 9

Chrip Center Frequency: 5521MHz

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	13M	50.7u	1.676m	-	396.1m
2	2	11M	57.3u	972.7u	-	371.9m
3	1	11M	92.5u	-	-	1.007
4	3	9M	90.1u	938.9u	1.176m	1.291
5	3	17M	75.1u	1.382m	1.914m	1.033
6	1	12M	87.6u	-	-	234.2m
7	3	7M	83.8u	1.274m	1.764m	1.007
8	1	11M	68.8u	-	-	691.0m
9	2	10M	65.5u	1.282m	-	1.047

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_28

Number of Bursts in Trial: 11

Chrip Center Frequency: 5522MHz

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	3	20M	54.2u	1.297m	1.736m	354.2m
2	1	18M	92.9u	-	-	71.46m
3	3	16M	61.3u	1.616m	1.217m	362.1m
4	3	19M	67.3u	1.069m	1.013m	766.7m
5	2	14M	72.3u	956.7u	-	909.2m
6	2	8M	75.0u	1.230m	-	29.21m
7	3	8M	97.7u	1.011m	1.208m	786.3m
8	2	8M	96.5u	1.780m	-	112.8m
9	1	10M	84.6u	-	-	386.8m
10	1	7M	50.5u	-	-	22.32m
11	1	11M	63.3u	-	-	330.4m



Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_29

Number of Bursts in Trial: 14

Chirp Center Frequency: 5523MHz

Burst	Pulses per Burst	Chirp (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	3	16M	60.3u	1.726m	961.7u	74.70m
2	3	10M	89.9u	1.470m	1.781m	776.6m
3	1	10M	60.2u	-	-	319.7m
4	3	11M	66.1u	1.529m	1.393m	511.2m
5	2	13M	57.2u	1.770m	-	511.6m
6	2	6M	58.2u	1.186m	-	208.0m
7	3	19M	54.1u	1.142m	1.062m	369.0m
8	1	16M	78.4u	-	-	665.3m
9	2	10M	75.5u	1.027m	-	539.1m
10	1	19M	86.4u	-	-	444.0m
11	3	7M	70.0u	1.390m	1.493m	437.8m
12	1	16M	52.3u	-	-	838.7m
13	2	11M	61.4u	1.880m	-	757.1m
14	3	5M	88.8u	1.391m	917.2u	747.2m



Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_30

Number of Bursts in Trial: 20

Chrip Center Frequency: 5525MHz

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	9M	82.5u	1.272m	-	575.7m
2	1	12M	71.0u	-	-	43.73m
3	2	20M	72.7u	1.581m	-	13.17m
4	2	8M	50.5u	1.679m	-	302.9m
5	1	19M	69.7u	-	-	116.5m
6	2	12M	95.1u	987.9u	-	585.8m
7	2	13M	71.5u	1.355m	-	480.2m
8	2	7M	56.2u	1.277m	-	340.3m
9	3	18M	99.8u	968.2u	1.845m	274.5m
10	3	18M	90.9u	1.369m	1.379m	78.28m
11	3	11M	82.0u	1.261m	1.737m	403.4m
12	2	9M	89.3u	1.353m	-	581.3m
13	2	16M	97.9u	1.331m	-	596.7m
14	1	11M	78.1u	-	-	50.82m
15	3	7M	80.7u	1.566m	1.247m	260.8m
16	2	19M	59.9u	1.095m	-	482.4m
17	3	19M	69.9u	1.278m	1.437m	265.6m
18	1	13M	67.5u	-	-	52.23m
19	3	10M	57.5u	1.784m	1.123m	251.9m
20	2	18M	62.7u	1.289m	-	261.2m



A O T

Type 6 Radar Statistical Performances				
Trial #	Pulses per Burst	Pulse Width (s)	PRI (s)	Detection
1	9	1.0u	333.0u	Yes
2	9	1.0u	333.0u	Yes
3	9	1.0u	333.0u	Yes
4	9	1.0u	333.0u	Yes
5	9	1.0u	333.0u	Yes
6	9	1.0u	333.0u	Yes
7	9	1.0u	333.0u	Yes
8	9	1.0u	333.0u	Yes
9	9	1.0u	333.0u	Yes
10	9	1.0u	333.0u	Yes
11	9	1.0u	333.0u	Yes
12	9	1.0u	333.0u	Yes
13	9	1.0u	333.0u	Yes
14	9	1.0u	333.0u	Yes
15	9	1.0u	333.0u	Yes
16	9	1.0u	333.0u	Yes
17	9	1.0u	333.0u	Yes
18	9	1.0u	333.0u	Yes
19	9	1.0u	333.0u	Yes
20	9	1.0u	333.0u	Yes
21	9	1.0u	333.0u	Yes
22	9	1.0u	333.0u	Yes
23	9	1.0u	333.0u	Yes
24	9	1.0u	333.0u	Yes
25	9	1.0u	333.0u	Yes
26	9	1.0u	333.0u	Yes
27	9	1.0u	333.0u	Yes
28	9	1.0u	333.0u	Yes
29	9	1.0u	333.0u	Yes
30	9	1.0u	333.0u	Yes
				Detection Rate: 100.0 %



A O T

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: 100.0 %



Hopping Frequency Sequence Name: HOP_FREQ_SEQ_01

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.661G	2	5.682G	3	5.347G	4	5.275G
5	5.582G	6	5.334G	7	5.691G	8	5.453G
9	5.693G	10	5.601G	11	5.713G	12	5.585G
13	5.341G	14	5.511G	15	5.445G	16	5.670G
17	5.666G	18	5.296G	19	5.465G	20	5.679G
21	5.256G	22	5.714G	23	5.494G	24	5.454G
25	5.317G	26	5.290G	27	5.376G	28	5.612G
29	5.648G	30	5.439G	31	5.474G	32	5.563G
33	5.416G	34	5.721G	35	5.351G	36	5.668G
37	5.435G	38	5.440G	39	5.664G	40	5.369G
41	5.600G	42	5.292G	43	5.534G	44	5.708G
45	5.624G	46	5.537G	47	5.652G	48	5.655G
49	5.374G	50	5.336G	51	5.643G	52	5.437G
53	5.533G	54	5.482G	55	5.285G	56	5.443G
57	5.501G	58	5.547G	59	5.274G	60	5.650G
61	5.683G	62	5.615G	63	5.280G	64	5.469G
65	5.628G	66	5.639G	67	5.426G	68	5.379G
69	5.393G	70	5.479G	71	5.706G	72	5.604G
73	5.315G	74	5.605G	75	5.371G	76	5.409G
77	5.282G	78	5.572G	79	5.333G	80	5.272G
81	5.645G	82	5.588G	83	5.402G	84	5.399G
85	5.442G	86	5.258G	87	5.673G	88	5.575G
89	5.309G	90	5.570G	91	5.313G	92	5.701G
93	5.678G	94	5.510G	95	5.622G	96	5.580G
97	5.700G	98	5.250G	99	5.456G	100	5.633G



Hopping Frequency Sequence Name: HOP_FREQ_SEQ_02

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.414G	2	5.439G	3	5.282G	4	5.592G
5	5.714G	6	5.570G	7	5.685G	8	5.466G
9	5.529G	10	5.637G	11	5.396G	12	5.708G
13	5.298G	14	5.361G	15	5.663G	16	5.651G
17	5.601G	18	5.690G	19	5.522G	20	5.557G
21	5.589G	22	5.391G	23	5.511G	24	5.263G
25	5.636G	26	5.284G	27	5.615G	28	5.408G
29	5.721G	30	5.318G	31	5.463G	32	5.562G
33	5.290G	34	5.250G	35	5.706G	36	5.452G
37	5.526G	38	5.588G	39	5.400G	40	5.399G
41	5.357G	42	5.541G	43	5.269G	44	5.552G
45	5.431G	46	5.481G	47	5.697G	48	5.724G
49	5.461G	50	5.322G	51	5.474G	52	5.476G
53	5.330G	54	5.359G	55	5.698G	56	5.358G
57	5.464G	58	5.547G	59	5.346G	60	5.386G
61	5.676G	62	5.560G	63	5.673G	64	5.543G
65	5.275G	66	5.691G	67	5.581G	68	5.598G
69	5.616G	70	5.471G	71	5.374G	72	5.405G
73	5.254G	74	5.537G	75	5.442G	76	5.315G
77	5.546G	78	5.274G	79	5.342G	80	5.671G
81	5.416G	82	5.545G	83	5.658G	84	5.512G
85	5.555G	86	5.381G	87	5.567G	88	5.672G
89	5.296G	90	5.595G	91	5.421G	92	5.299G
93	5.540G	94	5.701G	95	5.411G	96	5.376G
97	5.494G	98	5.329G	99	5.264G	100	5.270G



Hopping Frequency Sequence Name: HOP_FREQ_SEQ_03

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.679G	2	5.317G	3	5.547G	4	5.700G
5	5.503G	6	5.452G	7	5.250G	8	5.582G
9	5.521G	10	5.374G	11	5.535G	12	5.340G
13	5.686G	14	5.430G	15	5.264G	16	5.364G
17	5.306G	18	5.462G	19	5.309G	20	5.516G
21	5.499G	22	5.315G	23	5.639G	24	5.636G
25	5.724G	26	5.417G	27	5.335G	28	5.444G
29	5.458G	30	5.536G	31	5.432G	32	5.551G
33	5.477G	34	5.661G	35	5.677G	36	5.344G
37	5.675G	38	5.693G	39	5.441G	40	5.287G
41	5.681G	42	5.328G	43	5.712G	44	5.454G
45	5.357G	46	5.561G	47	5.271G	48	5.515G
49	5.608G	50	5.538G	51	5.506G	52	5.376G
53	5.584G	54	5.355G	55	5.705G	56	5.406G
57	5.260G	58	5.683G	59	5.422G	60	5.343G
61	5.605G	62	5.518G	63	5.316G	64	5.459G
65	5.722G	66	5.689G	67	5.577G	68	5.423G
69	5.702G	70	5.527G	71	5.500G	72	5.716G
73	5.587G	74	5.710G	75	5.528G	76	5.562G
77	5.568G	78	5.349G	79	5.523G	80	5.609G
81	5.481G	82	5.378G	83	5.637G	84	5.684G
85	5.261G	86	5.615G	87	5.299G	88	5.410G
89	5.358G	90	5.548G	91	5.715G	92	5.534G
93	5.370G	94	5.289G	95	5.600G	96	5.553G
97	5.525G	98	5.520G	99	5.572G	100	5.273G



Hopping Frequency Sequence Name: HOP_FREQ_SEQ_04

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.400G	2	5.348G	3	5.316G	4	5.506G
5	5.301G	6	5.657G	7	5.382G	8	5.300G
9	5.524G	10	5.617G	11	5.349G	12	5.646G
13	5.273G	14	5.283G	15	5.446G	16	5.588G
17	5.330G	18	5.417G	19	5.669G	20	5.528G
21	5.580G	22	5.679G	23	5.628G	24	5.621G
25	5.673G	26	5.651G	27	5.391G	28	5.444G
29	5.564G	30	5.685G	31	5.361G	32	5.454G
33	5.404G	34	5.690G	35	5.439G	36	5.380G
37	5.614G	38	5.516G	39	5.535G	40	5.536G
41	5.302G	42	5.388G	43	5.658G	44	5.426G
45	5.561G	46	5.550G	47	5.513G	48	5.451G
49	5.393G	50	5.560G	51	5.365G	52	5.703G
53	5.671G	54	5.684G	55	5.337G	56	5.256G
57	5.332G	58	5.571G	59	5.372G	60	5.544G
61	5.274G	62	5.723G	63	5.456G	64	5.520G
65	5.472G	66	5.425G	67	5.634G	68	5.702G
69	5.309G	70	5.710G	71	5.670G	72	5.533G
73	5.366G	74	5.724G	75	5.680G	76	5.595G
77	5.517G	78	5.287G	79	5.375G	80	5.574G
81	5.495G	82	5.328G	83	5.548G	84	5.668G
85	5.407G	86	5.579G	87	5.682G	88	5.291G
89	5.315G	90	5.586G	91	5.529G	92	5.584G
93	5.263G	94	5.541G	95	5.359G	96	5.340G
97	5.523G	98	5.543G	99	5.480G	100	5.485G



Hopping Frequency Sequence Name: HOP_FREQ_SEQ_05

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.319G	2	5.719G	3	5.506G	4	5.714G
5	5.382G	6	5.638G	7	5.336G	8	5.350G
9	5.416G	10	5.352G	11	5.309G	12	5.381G
13	5.517G	14	5.669G	15	5.534G	16	5.540G
17	5.705G	18	5.637G	19	5.551G	20	5.471G
21	5.287G	22	5.608G	23	5.541G	24	5.606G
25	5.709G	26	5.500G	27	5.689G	28	5.527G
29	5.422G	30	5.710G	31	5.568G	32	5.346G
33	5.575G	34	5.514G	35	5.347G	36	5.391G
37	5.362G	38	5.625G	39	5.640G	40	5.258G
41	5.398G	42	5.270G	43	5.511G	44	5.499G
45	5.684G	46	5.314G	47	5.272G	48	5.303G
49	5.647G	50	5.379G	51	5.476G	52	5.392G
53	5.494G	54	5.501G	55	5.377G	56	5.467G
57	5.507G	58	5.295G	59	5.686G	60	5.254G
61	5.306G	62	5.572G	63	5.290G	64	5.373G
65	5.302G	66	5.632G	67	5.320G	68	5.578G
69	5.539G	70	5.327G	71	5.487G	72	5.515G
73	5.571G	74	5.370G	75	5.666G	76	5.604G
77	5.368G	78	5.528G	79	5.414G	80	5.695G
81	5.429G	82	5.641G	83	5.436G	84	5.417G
85	5.269G	86	5.649G	87	5.529G	88	5.457G
89	5.283G	90	5.444G	91	5.603G	92	5.372G
93	5.664G	94	5.503G	95	5.680G	96	5.563G
97	5.712G	98	5.673G	99	5.650G	100	5.296G



Hopping Frequency Sequence Name: HOP_FREQ_SEQ_06

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.464G	2	5.500G	3	5.454G	4	5.723G
5	5.711G	6	5.679G	7	5.623G	8	5.303G
9	5.639G	10	5.651G	11	5.289G	12	5.657G
13	5.435G	14	5.551G	15	5.608G	16	5.335G
17	5.321G	18	5.467G	19	5.503G	20	5.543G
21	5.584G	22	5.481G	23	5.618G	24	5.650G
25	5.306G	26	5.366G	27	5.695G	28	5.328G
29	5.533G	30	5.461G	31	5.452G	32	5.708G
33	5.477G	34	5.479G	35	5.412G	36	5.407G
37	5.548G	38	5.683G	39	5.620G	40	5.315G
41	5.495G	42	5.416G	43	5.317G	44	5.327G
45	5.457G	46	5.641G	47	5.526G	48	5.309G
49	5.665G	50	5.636G	51	5.266G	52	5.675G
53	5.422G	54	5.271G	55	5.569G	56	5.288G
57	5.434G	58	5.505G	59	5.272G	60	5.643G
61	5.534G	62	5.259G	63	5.252G	64	5.592G
65	5.662G	66	5.267G	67	5.382G	68	5.433G
69	5.485G	70	5.682G	71	5.688G	72	5.590G
73	5.332G	74	5.269G	75	5.716G	76	5.427G
77	5.549G	78	5.456G	79	5.348G	80	5.357G
81	5.458G	82	5.440G	83	5.692G	84	5.693G
85	5.638G	86	5.509G	87	5.567G	88	5.409G
89	5.307G	90	5.715G	91	5.552G	92	5.360G
93	5.292G	94	5.470G	95	5.441G	96	5.587G
97	5.444G	98	5.365G	99	5.310G	100	5.394G



Hopping Frequency Sequence Name: HOP_FREQ_SEQ_07

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.458G	2	5.662G	3	5.310G	4	5.348G
5	5.655G	6	5.508G	7	5.547G	8	5.650G
9	5.415G	10	5.350G	11	5.550G	12	5.474G
13	5.551G	14	5.450G	15	5.722G	16	5.417G
17	5.494G	18	5.409G	19	5.499G	20	5.327G
21	5.699G	22	5.403G	23	5.390G	24	5.448G
25	5.561G	26	5.632G	27	5.564G	28	5.618G
29	5.513G	30	5.260G	31	5.339G	32	5.437G
33	5.463G	34	5.406G	35	5.446G	36	5.690G
37	5.671G	38	5.723G	39	5.588G	40	5.712G
41	5.709G	42	5.328G	43	5.451G	44	5.438G
45	5.428G	46	5.479G	47	5.320G	48	5.413G
49	5.529G	50	5.554G	51	5.517G	52	5.663G
53	5.642G	54	5.331G	55	5.715G	56	5.677G
57	5.528G	58	5.330G	59	5.526G	60	5.570G
61	5.675G	62	5.600G	63	5.654G	64	5.595G
65	5.361G	66	5.633G	67	5.540G	68	5.357G
69	5.278G	70	5.300G	71	5.641G	72	5.258G
73	5.373G	74	5.273G	75	5.656G	76	5.408G
77	5.649G	78	5.500G	79	5.421G	80	5.630G
81	5.396G	82	5.251G	83	5.533G	84	5.433G
85	5.370G	86	5.524G	87	5.386G	88	5.605G
89	5.353G	90	5.256G	91	5.640G	92	5.591G
93	5.488G	94	5.312G	95	5.295G	96	5.364G
97	5.646G	98	5.599G	99	5.697G	100	5.696G



Hopping Frequency Sequence Name: HOP_FREQ_SEQ_08

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.495G	2	5.553G	3	5.386G	4	5.410G
5	5.686G	6	5.417G	7	5.287G	8	5.575G
9	5.292G	10	5.356G	11	5.537G	12	5.589G
13	5.291G	14	5.624G	15	5.453G	16	5.485G
17	5.607G	18	5.339G	19	5.650G	20	5.660G
21	5.601G	22	5.486G	23	5.431G	24	5.328G
25	5.515G	26	5.678G	27	5.448G	28	5.371G
29	5.556G	30	5.661G	31	5.659G	32	5.599G
33	5.536G	34	5.521G	35	5.261G	36	5.305G
37	5.337G	38	5.646G	39	5.588G	40	5.527G
41	5.574G	42	5.642G	43	5.695G	44	5.380G
45	5.358G	46	5.484G	47	5.713G	48	5.629G
49	5.676G	50	5.704G	51	5.267G	52	5.555G
53	5.293G	54	5.326G	55	5.461G	56	5.544G
57	5.499G	58	5.342G	59	5.420G	60	5.437G
61	5.290G	62	5.579G	63	5.597G	64	5.426G
65	5.277G	66	5.389G	67	5.257G	68	5.557G
69	5.593G	70	5.393G	71	5.341G	72	5.405G
73	5.644G	74	5.618G	75	5.594G	76	5.477G
77	5.696G	78	5.447G	79	5.577G	80	5.325G
81	5.474G	82	5.616G	83	5.647G	84	5.679G
85	5.309G	86	5.440G	87	5.652G	88	5.627G
89	5.428G	90	5.382G	91	5.419G	92	5.501G
93	5.637G	94	5.600G	95	5.306G	96	5.517G
97	5.387G	98	5.545G	99	5.497G	100	5.488G



Hopping Frequency Sequence Name: HOP_FREQ_SEQ_09

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.307G	2	5.564G	3	5.439G	4	5.660G
5	5.654G	6	5.676G	7	5.652G	8	5.527G
9	5.422G	10	5.452G	11	5.378G	12	5.550G
13	5.387G	14	5.542G	15	5.563G	16	5.290G
17	5.431G	18	5.516G	19	5.575G	20	5.671G
21	5.470G	22	5.696G	23	5.580G	24	5.591G
25	5.599G	26	5.703G	27	5.421G	28	5.679G
29	5.688G	30	5.395G	31	5.257G	32	5.388G
33	5.335G	34	5.390G	35	5.364G	36	5.666G
37	5.535G	38	5.450G	39	5.322G	40	5.686G
41	5.677G	42	5.325G	43	5.578G	44	5.344G
45	5.655G	46	5.295G	47	5.430G	48	5.522G
49	5.331G	50	5.424G	51	5.508G	52	5.368G
53	5.457G	54	5.285G	55	5.673G	56	5.689G
57	5.362G	58	5.698G	59	5.401G	60	5.691G
61	5.624G	62	5.482G	63	5.473G	64	5.310G
65	5.610G	66	5.558G	67	5.365G	68	5.273G
69	5.298G	70	5.380G	71	5.567G	72	5.708G
73	5.600G	74	5.269G	75	5.303G	76	5.398G
77	5.308G	78	5.404G	79	5.718G	80	5.499G
81	5.373G	82	5.593G	83	5.358G	84	5.468G
85	5.311G	86	5.488G	87	5.606G	88	5.363G
89	5.533G	90	5.700G	91	5.485G	92	5.346G
93	5.642G	94	5.256G	95	5.415G	96	5.721G
97	5.500G	98	5.381G	99	5.576G	100	5.585G



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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_10

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.512G	2	5.624G	3	5.511G	4	5.656G
5	5.314G	6	5.708G	7	5.617G	8	5.352G
9	5.544G	10	5.669G	11	5.391G	12	5.671G
13	5.416G	14	5.501G	15	5.568G	16	5.318G
17	5.643G	18	5.275G	19	5.661G	20	5.567G
21	5.424G	22	5.274G	23	5.650G	24	5.276G
25	5.581G	26	5.418G	27	5.290G	28	5.395G
29	5.550G	30	5.601G	31	5.413G	32	5.468G
33	5.358G	34	5.534G	35	5.285G	36	5.600G
37	5.553G	38	5.638G	39	5.625G	40	5.506G
41	5.559G	42	5.305G	43	5.526G	44	5.717G
45	5.539G	46	5.542G	47	5.427G	48	5.484G
49	5.251G	50	5.269G	51	5.715G	52	5.478G
53	5.454G	54	5.359G	55	5.252G	56	5.353G
57	5.514G	58	5.436G	59	5.316G	60	5.343G
61	5.255G	62	5.604G	63	5.626G	64	5.340G
65	5.310G	66	5.482G	67	5.450G	68	5.431G
69	5.546G	70	5.645G	71	5.447G	72	5.623G
73	5.572G	74	5.723G	75	5.566G	76	5.449G
77	5.477G	78	5.356G	79	5.459G	80	5.465G
81	5.547G	82	5.532G	83	5.517G	84	5.380G
85	5.437G	86	5.594G	87	5.648G	88	5.637G
89	5.503G	90	5.474G	91	5.422G	92	5.589G
93	5.655G	94	5.333G	95	5.344G	96	5.635G
97	5.412G	98	5.504G	99	5.652G	100	5.607G



Hopping Frequency Sequence Name: HOP_FREQ_SEQ_11

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.652G	2	5.570G	3	5.614G	4	5.430G
5	5.628G	6	5.368G	7	5.343G	8	5.681G
9	5.266G	10	5.707G	11	5.389G	12	5.409G
13	5.426G	14	5.458G	15	5.309G	16	5.330G
17	5.428G	18	5.598G	19	5.300G	20	5.621G
21	5.694G	22	5.566G	23	5.600G	24	5.423G
25	5.543G	26	5.644G	27	5.673G	28	5.528G
29	5.351G	30	5.503G	31	5.577G	32	5.595G
33	5.303G	34	5.572G	35	5.499G	36	5.632G
37	5.688G	38	5.525G	39	5.396G	40	5.315G
41	5.615G	42	5.436G	43	5.620G	44	5.386G
45	5.468G	46	5.712G	47	5.537G	48	5.534G
49	5.394G	50	5.697G	51	5.280G	52	5.488G
53	5.668G	54	5.716G	55	5.316G	56	5.591G
57	5.502G	58	5.392G	59	5.366G	60	5.255G
61	5.308G	62	5.292G	63	5.427G	64	5.327G
65	5.671G	66	5.610G	67	5.254G	68	5.660G
69	5.556G	70	5.553G	71	5.533G	72	5.522G
73	5.719G	74	5.446G	75	5.364G	76	5.439G
77	5.407G	78	5.440G	79	5.624G	80	5.265G
81	5.538G	82	5.710G	83	5.563G	84	5.500G
85	5.259G	86	5.271G	87	5.613G	88	5.698G
89	5.262G	90	5.622G	91	5.561G	92	5.687G
93	5.506G	94	5.648G	95	5.419G	96	5.541G
97	5.575G	98	5.701G	99	5.649G	100	5.551G



Hopping Frequency Sequence Name: HOP_FREQ_SEQ_12

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.711G	2	5.453G	3	5.383G	4	5.419G
5	5.398G	6	5.591G	7	5.470G	8	5.534G
9	5.411G	10	5.405G	11	5.306G	12	5.264G
13	5.354G	14	5.581G	15	5.406G	16	5.439G
17	5.340G	18	5.585G	19	5.697G	20	5.723G
21	5.274G	22	5.500G	23	5.368G	24	5.358G
25	5.446G	26	5.393G	27	5.332G	28	5.580G
29	5.283G	30	5.372G	31	5.300G	32	5.296G
33	5.321G	34	5.420G	35	5.499G	36	5.484G
37	5.661G	38	5.409G	39	5.478G	40	5.565G
41	5.437G	42	5.506G	43	5.634G	44	5.612G
45	5.289G	46	5.626G	47	5.445G	48	5.620G
49	5.495G	50	5.712G	51	5.665G	52	5.644G
53	5.386G	54	5.452G	55	5.527G	56	5.691G
57	5.288G	58	5.519G	59	5.337G	60	5.258G
61	5.388G	62	5.532G	63	5.394G	64	5.299G
65	5.702G	66	5.682G	67	5.327G	68	5.608G
69	5.267G	70	5.385G	71	5.466G	72	5.415G
73	5.362G	74	5.716G	75	5.647G	76	5.587G
77	5.455G	78	5.520G	79	5.704G	80	5.414G
81	5.444G	82	5.720G	83	5.713G	84	5.373G
85	5.604G	86	5.292G	87	5.593G	88	5.542G
89	5.689G	90	5.325G	91	5.632G	92	5.539G
93	5.594G	94	5.524G	95	5.347G	96	5.724G
97	5.281G	98	5.521G	99	5.605G	100	5.262G



Hopping Frequency Sequence Name: HOP_FREQ_SEQ_13

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.329G	2	5.719G	3	5.325G	4	5.419G
5	5.606G	6	5.510G	7	5.281G	8	5.571G
9	5.690G	10	5.423G	11	5.716G	12	5.266G
13	5.696G	14	5.607G	15	5.435G	16	5.394G
17	5.308G	18	5.665G	19	5.322G	20	5.600G
21	5.508G	22	5.518G	23	5.348G	24	5.471G
25	5.603G	26	5.724G	27	5.630G	28	5.330G
29	5.318G	30	5.278G	31	5.598G	32	5.405G
33	5.294G	34	5.464G	35	5.649G	36	5.583G
37	5.523G	38	5.663G	39	5.364G	40	5.382G
41	5.358G	42	5.353G	43	5.384G	44	5.277G
45	5.699G	46	5.406G	47	5.527G	48	5.470G
49	5.451G	50	5.568G	51	5.416G	52	5.386G
53	5.656G	54	5.389G	55	5.356G	56	5.501G
57	5.301G	58	5.346G	59	5.480G	60	5.367G
61	5.711G	62	5.529G	63	5.434G	64	5.581G
65	5.547G	66	5.307G	67	5.655G	68	5.582G
69	5.272G	70	5.631G	71	5.713G	72	5.556G
73	5.251G	74	5.397G	75	5.540G	76	5.537G
77	5.392G	78	5.381G	79	5.585G	80	5.575G
81	5.365G	82	5.579G	83	5.459G	84	5.404G
85	5.520G	86	5.639G	87	5.496G	88	5.331G
89	5.366G	90	5.624G	91	5.360G	92	5.698G
93	5.625G	94	5.553G	95	5.669G	96	5.532G
97	5.641G	98	5.629G	99	5.491G	100	5.474G



Hopping Frequency Sequence Name: HOP_FREQ_SEQ_14

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.564G	2	5.296G	3	5.603G	4	5.441G
5	5.598G	6	5.358G	7	5.287G	8	5.590G
9	5.672G	10	5.569G	11	5.412G	12	5.445G
13	5.377G	14	5.428G	15	5.385G	16	5.500G
17	5.512G	18	5.701G	19	5.258G	20	5.354G
21	5.432G	22	5.717G	23	5.436G	24	5.324G
25	5.298G	26	5.722G	27	5.525G	28	5.661G
29	5.602G	30	5.687G	31	5.562G	32	5.494G
33	5.716G	34	5.269G	35	5.348G	36	5.647G
37	5.585G	38	5.297G	39	5.684G	40	5.643G
41	5.253G	42	5.612G	43	5.375G	44	5.401G
45	5.664G	46	5.678G	47	5.433G	48	5.523G
49	5.652G	50	5.680G	51	5.314G	52	5.552G
53	5.670G	54	5.695G	55	5.316G	56	5.460G
57	5.535G	58	5.620G	59	5.450G	60	5.439G
61	5.359G	62	5.502G	63	5.313G	64	5.328G
65	5.368G	66	5.681G	67	5.263G	68	5.578G
69	5.294G	70	5.629G	71	5.310G	72	5.607G
73	5.322G	74	5.616G	75	5.534G	76	5.673G
77	5.411G	78	5.615G	79	5.536G	80	5.285G
81	5.648G	82	5.330G	83	5.498G	84	5.458G
85	5.374G	86	5.389G	87	5.610G	88	5.274G
89	5.676G	90	5.601G	91	5.495G	92	5.520G
93	5.644G	94	5.521G	95	5.407G	96	5.404G
97	5.437G	98	5.633G	99	5.654G	100	5.267G



Hopping Frequency Sequence Name: HOP_FREQ_SEQ_15

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.371G	2	5.447G	3	5.295G	4	5.475G
5	5.315G	6	5.417G	7	5.576G	8	5.543G
9	5.274G	10	5.354G	11	5.487G	12	5.286G
13	5.495G	14	5.521G	15	5.527G	16	5.296G
17	5.458G	18	5.549G	19	5.476G	20	5.445G
21	5.613G	22	5.653G	23	5.510G	24	5.656G
25	5.383G	26	5.506G	27	5.273G	28	5.702G
29	5.312G	30	5.331G	31	5.492G	32	5.443G
33	5.522G	34	5.427G	35	5.338G	36	5.674G
37	5.638G	38	5.694G	39	5.636G	40	5.572G
41	5.570G	42	5.419G	43	5.715G	44	5.384G
45	5.645G	46	5.307G	47	5.300G	48	5.633G
49	5.707G	50	5.260G	51	5.683G	52	5.374G
53	5.632G	54	5.666G	55	5.689G	56	5.609G
57	5.563G	58	5.682G	59	5.435G	60	5.252G
61	5.272G	62	5.469G	63	5.375G	64	5.423G
65	5.639G	66	5.403G	67	5.542G	68	5.471G
69	5.512G	70	5.455G	71	5.278G	72	5.405G
73	5.253G	74	5.438G	75	5.473G	76	5.292G
77	5.626G	78	5.343G	79	5.667G	80	5.267G
81	5.498G	82	5.545G	83	5.400G	84	5.655G
85	5.451G	86	5.529G	87	5.285G	88	5.416G
89	5.577G	90	5.325G	91	5.554G	92	5.568G
93	5.519G	94	5.566G	95	5.380G	96	5.693G
97	5.479G	98	5.298G	99	5.481G	100	5.442G



Hopping Frequency Sequence Name: HOP_FREQ_SEQ_16

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.517G	2	5.386G	3	5.347G	4	5.448G
5	5.356G	6	5.667G	7	5.291G	8	5.538G
9	5.714G	10	5.257G	11	5.387G	12	5.644G
13	5.293G	14	5.504G	15	5.657G	16	5.596G
17	5.480G	18	5.638G	19	5.631G	20	5.682G
21	5.699G	22	5.519G	23	5.696G	24	5.558G
25	5.721G	26	5.705G	27	5.358G	28	5.365G
29	5.641G	30	5.399G	31	5.462G	32	5.340G
33	5.625G	34	5.254G	35	5.713G	36	5.272G
37	5.343G	38	5.712G	39	5.686G	40	5.666G
41	5.264G	42	5.718G	43	5.273G	44	5.430G
45	5.453G	46	5.537G	47	5.630G	48	5.674G
49	5.385G	50	5.455G	51	5.433G	52	5.389G
53	5.550G	54	5.336G	55	5.577G	56	5.582G
57	5.529G	58	5.578G	59	5.408G	60	5.594G
61	5.524G	62	5.518G	63	5.307G	64	5.417G
65	5.299G	66	5.338G	67	5.393G	68	5.319G
69	5.405G	70	5.516G	71	5.391G	72	5.560G
73	5.411G	74	5.655G	75	5.653G	76	5.328G
77	5.499G	78	5.348G	79	5.722G	80	5.521G
81	5.341G	82	5.506G	83	5.422G	84	5.324G
85	5.645G	86	5.583G	87	5.597G	88	5.684G
89	5.271G	90	5.419G	91	5.672G	92	5.364G
93	5.279G	94	5.315G	95	5.366G	96	5.624G
97	5.494G	98	5.255G	99	5.382G	100	5.440G



Hopping Frequency Sequence Name: HOP_FREQ_SEQ_17

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.506G	2	5.256G	3	5.686G	4	5.406G
5	5.443G	6	5.716G	7	5.719G	8	5.660G
9	5.519G	10	5.690G	11	5.569G	12	5.365G
13	5.645G	14	5.654G	15	5.417G	16	5.402G
17	5.625G	18	5.477G	19	5.277G	20	5.388G
21	5.580G	22	5.581G	23	5.682G	24	5.289G
25	5.607G	26	5.720G	27	5.634G	28	5.263G
29	5.395G	30	5.513G	31	5.511G	32	5.677G
33	5.692G	34	5.463G	35	5.383G	36	5.604G
37	5.687G	38	5.614G	39	5.315G	40	5.502G
41	5.309G	42	5.526G	43	5.662G	44	5.352G
45	5.495G	46	5.508G	47	5.487G	48	5.366G
49	5.313G	50	5.343G	51	5.599G	52	5.320G
53	5.430G	54	5.408G	55	5.629G	56	5.722G
57	5.585G	58	5.706G	59	5.280G	60	5.387G
61	5.415G	62	5.381G	63	5.510G	64	5.471G
65	5.299G	66	5.566G	67	5.550G	68	5.468G
69	5.563G	70	5.393G	71	5.691G	72	5.539G
73	5.721G	74	5.707G	75	5.681G	76	5.591G
77	5.536G	78	5.701G	79	5.708G	80	5.621G
81	5.453G	82	5.715G	83	5.446G	84	5.254G
85	5.649G	86	5.276G	87	5.449G	88	5.357G
89	5.396G	90	5.622G	91	5.638G	92	5.287G
93	5.616G	94	5.680G	95	5.610G	96	5.601G
97	5.259G	98	5.483G	99	5.596G	100	5.640G



Hopping Frequency Sequence Name: HOP_FREQ_SEQ_18

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.710G	2	5.546G	3	5.289G	4	5.331G
5	5.419G	6	5.552G	7	5.663G	8	5.543G
9	5.467G	10	5.330G	11	5.435G	12	5.603G
13	5.724G	14	5.634G	15	5.469G	16	5.495G
17	5.259G	18	5.581G	19	5.487G	20	5.563G
21	5.610G	22	5.651G	23	5.407G	24	5.699G
25	5.398G	26	5.612G	27	5.387G	28	5.277G
29	5.712G	30	5.571G	31	5.444G	32	5.607G
33	5.290G	34	5.388G	35	5.601G	36	5.297G
37	5.293G	38	5.465G	39	5.349G	40	5.381G
41	5.723G	42	5.428G	43	5.448G	44	5.284G
45	5.510G	46	5.527G	47	5.504G	48	5.598G
49	5.609G	50	5.362G	51	5.640G	52	5.458G
53	5.393G	54	5.347G	55	5.478G	56	5.568G
57	5.451G	58	5.320G	59	5.459G	60	5.368G
61	5.644G	62	5.673G	63	5.449G	64	5.391G
65	5.375G	66	5.570G	67	5.309G	68	5.540G
69	5.692G	70	5.539G	71	5.698G	72	5.691G
73	5.285G	74	5.361G	75	5.281G	76	5.486G
77	5.628G	78	5.721G	79	5.573G	80	5.605G
81	5.295G	82	5.376G	83	5.298G	84	5.355G
85	5.536G	86	5.338G	87	5.709G	88	5.390G
89	5.575G	90	5.475G	91	5.429G	92	5.503G
93	5.505G	94	5.516G	95	5.464G	96	5.493G
97	5.574G	98	5.311G	99	5.319G	100	5.565G



Hopping Frequency Sequence Name: HOP_FREQ_SEQ_19

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.538G	2	5.393G	3	5.323G	4	5.571G
5	5.643G	6	5.353G	7	5.660G	8	5.668G
9	5.459G	10	5.454G	11	5.665G	12	5.573G
13	5.400G	14	5.277G	15	5.498G	16	5.406G
17	5.424G	18	5.595G	19	5.696G	20	5.597G
21	5.664G	22	5.255G	23	5.639G	24	5.389G
25	5.514G	26	5.576G	27	5.536G	28	5.642G
29	5.366G	30	5.336G	31	5.431G	32	5.518G
33	5.482G	34	5.345G	35	5.532G	36	5.297G
37	5.321G	38	5.589G	39	5.474G	40	5.686G
41	5.445G	42	5.362G	43	5.702G	44	5.288G
45	5.456G	46	5.631G	47	5.259G	48	5.577G
49	5.282G	50	5.387G	51	5.372G	52	5.303G
53	5.593G	54	5.635G	55	5.477G	56	5.691G
57	5.339G	58	5.446G	59	5.275G	60	5.533G
61	5.697G	62	5.606G	63	5.414G	64	5.268G
65	5.652G	66	5.442G	67	5.687G	68	5.348G
69	5.318G	70	5.542G	71	5.319G	72	5.616G
73	5.250G	74	5.556G	75	5.486G	76	5.419G
77	5.695G	78	5.379G	79	5.545G	80	5.401G
81	5.485G	82	5.280G	83	5.548G	84	5.262G
85	5.363G	86	5.581G	87	5.516G	88	5.554G
89	5.579G	90	5.596G	91	5.376G	92	5.479G
93	5.563G	94	5.505G	95	5.298G	96	5.347G
97	5.549G	98	5.524G	99	5.410G	100	5.291G



Hopping Frequency Sequence Name: HOP_FREQ_SEQ_20

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.674G	2	5.475G	3	5.290G	4	5.341G
5	5.404G	6	5.336G	7	5.428G	8	5.429G
9	5.583G	10	5.611G	11	5.608G	12	5.511G
13	5.427G	14	5.305G	15	5.701G	16	5.619G
17	5.303G	18	5.626G	19	5.684G	20	5.719G
21	5.614G	22	5.301G	23	5.355G	24	5.252G
25	5.327G	26	5.379G	27	5.682G	28	5.395G
29	5.576G	30	5.575G	31	5.293G	32	5.461G
33	5.538G	34	5.493G	35	5.348G	36	5.268G
37	5.665G	38	5.332G	39	5.699G	40	5.679G
41	5.598G	42	5.484G	43	5.307G	44	5.559G
45	5.331G	46	5.383G	47	5.660G	48	5.451G
49	5.328G	50	5.573G	51	5.693G	52	5.387G
53	5.636G	54	5.605G	55	5.285G	56	5.691G
57	5.506G	58	5.510G	59	5.597G	60	5.476G
61	5.666G	62	5.517G	63	5.600G	64	5.337G
65	5.500G	66	5.460G	67	5.703G	68	5.425G
69	5.670G	70	5.555G	71	5.564G	72	5.250G
73	5.570G	74	5.507G	75	5.596G	76	5.482G
77	5.519G	78	5.662G	79	5.257G	80	5.491G
81	5.412G	82	5.292G	83	5.400G	84	5.295G
85	5.525G	86	5.453G	87	5.560G	88	5.592G
89	5.364G	90	5.494G	91	5.687G	92	5.351G
93	5.297G	94	5.577G	95	5.612G	96	5.463G
97	5.349G	98	5.552G	99	5.492G	100	5.546G



Hopping Frequency Sequence Name: HOP_FREQ_SEQ_21

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.270G	2	5.525G	3	5.527G	4	5.628G
5	5.402G	6	5.639G	7	5.615G	8	5.369G
9	5.302G	10	5.456G	11	5.250G	12	5.407G
13	5.362G	14	5.435G	15	5.252G	16	5.698G
17	5.660G	18	5.442G	19	5.385G	20	5.359G
21	5.685G	22	5.263G	23	5.404G	24	5.387G
25	5.661G	26	5.510G	27	5.449G	28	5.395G
29	5.704G	30	5.496G	31	5.467G	32	5.554G
33	5.257G	34	5.393G	35	5.305G	36	5.572G
37	5.700G	38	5.373G	39	5.548G	40	5.320G
41	5.392G	42	5.296G	43	5.274G	44	5.610G
45	5.611G	46	5.581G	47	5.409G	48	5.390G
49	5.451G	50	5.376G	51	5.417G	52	5.523G
53	5.282G	54	5.432G	55	5.546G	56	5.497G
57	5.355G	58	5.276G	59	5.342G	60	5.327G
61	5.637G	62	5.289G	63	5.293G	64	5.539G
65	5.627G	66	5.379G	67	5.299G	68	5.427G
69	5.595G	70	5.553G	71	5.315G	72	5.669G
73	5.709G	74	5.405G	75	5.587G	76	5.360G
77	5.663G	78	5.461G	79	5.565G	80	5.275G
81	5.308G	82	5.487G	83	5.620G	84	5.540G
85	5.469G	86	5.561G	87	5.545G	88	5.597G
89	5.536G	90	5.506G	91	5.318G	92	5.697G
93	5.295G	94	5.519G	95	5.560G	96	5.389G
97	5.719G	98	5.654G	99	5.336G	100	5.608G



Hopping Frequency Sequence Name: HOP_FREQ_SEQ_22

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.288G	2	5.441G	3	5.682G	4	5.304G
5	5.313G	6	5.446G	7	5.442G	8	5.612G
9	5.345G	10	5.337G	11	5.557G	12	5.638G
13	5.427G	14	5.303G	15	5.298G	16	5.592G
17	5.267G	18	5.717G	19	5.568G	20	5.320G
21	5.697G	22	5.541G	23	5.667G	24	5.506G
25	5.423G	26	5.518G	27	5.575G	28	5.413G
29	5.527G	30	5.283G	31	5.709G	32	5.469G
33	5.554G	34	5.418G	35	5.250G	36	5.495G
37	5.366G	38	5.681G	39	5.716G	40	5.471G
41	5.302G	42	5.628G	43	5.534G	44	5.698G
45	5.439G	46	5.510G	47	5.673G	48	5.408G
49	5.624G	50	5.280G	51	5.473G	52	5.676G
53	5.582G	54	5.400G	55	5.648G	56	5.383G
57	5.626G	58	5.358G	59	5.296G	60	5.641G
61	5.690G	62	5.608G	63	5.365G	64	5.397G
65	5.629G	66	5.647G	67	5.620G	68	5.493G
69	5.417G	70	5.570G	71	5.596G	72	5.581G
73	5.285G	74	5.606G	75	5.654G	76	5.445G
77	5.318G	78	5.404G	79	5.553G	80	5.335G
81	5.378G	82	5.505G	83	5.694G	84	5.487G
85	5.715G	86	5.269G	87	5.552G	88	5.287G
89	5.315G	90	5.289G	91	5.422G	92	5.431G
93	5.569G	94	5.507G	95	5.478G	96	5.464G
97	5.702G	98	5.347G	99	5.275G	100	5.409G



Hopping Frequency Sequence Name: HOP_FREQ_SEQ_23

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.521G	2	5.425G	3	5.711G	4	5.694G
5	5.679G	6	5.449G	7	5.723G	8	5.440G
9	5.279G	10	5.442G	11	5.700G	12	5.326G
13	5.286G	14	5.608G	15	5.664G	16	5.265G
17	5.395G	18	5.687G	19	5.258G	20	5.656G
21	5.348G	22	5.319G	23	5.306G	24	5.412G
25	5.624G	26	5.556G	27	5.420G	28	5.457G
29	5.404G	30	5.693G	31	5.640G	32	5.606G
33	5.627G	34	5.367G	35	5.387G	36	5.401G
37	5.441G	38	5.580G	39	5.398G	40	5.274G
41	5.323G	42	5.651G	43	5.386G	44	5.683G
45	5.300G	46	5.283G	47	5.655G	48	5.638G
49	5.487G	50	5.705G	51	5.358G	52	5.600G
53	5.559G	54	5.261G	55	5.614G	56	5.581G
57	5.409G	58	5.424G	59	5.322G	60	5.292G
61	5.263G	62	5.667G	63	5.682G	64	5.397G
65	5.264G	66	5.482G	67	5.713G	68	5.302G
69	5.650G	70	5.572G	71	5.464G	72	5.686G
73	5.351G	74	5.562G	75	5.573G	76	5.355G
77	5.724G	78	5.550G	79	5.476G	80	5.603G
81	5.450G	82	5.601G	83	5.684G	84	5.592G
85	5.354G	86	5.255G	87	5.359G	88	5.568G
89	5.702G	90	5.692G	91	5.336G	92	5.639G
93	5.484G	94	5.637G	95	5.477G	96	5.520G
97	5.327G	98	5.378G	99	5.461G	100	5.501G



Hopping Frequency Sequence Name: HOP_FREQ_SEQ_24

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.461G	2	5.451G	3	5.572G	4	5.600G
5	5.561G	6	5.338G	7	5.515G	8	5.403G
9	5.527G	10	5.628G	11	5.654G	12	5.544G
13	5.367G	14	5.353G	15	5.665G	16	5.573G
17	5.377G	18	5.534G	19	5.432G	20	5.621G
21	5.302G	22	5.414G	23	5.560G	24	5.574G
25	5.381G	26	5.533G	27	5.546G	28	5.404G
29	5.700G	30	5.325G	31	5.355G	32	5.685G
33	5.588G	34	5.625G	35	5.294G	36	5.505G
37	5.344G	38	5.352G	39	5.630G	40	5.599G
41	5.430G	42	5.495G	43	5.431G	44	5.253G
45	5.714G	46	5.258G	47	5.691G	48	5.719G
49	5.287G	50	5.557G	51	5.623G	52	5.343G
53	5.682G	54	5.717G	55	5.408G	56	5.526G
57	5.569G	58	5.393G	59	5.452G	60	5.549G
61	5.705G	62	5.375G	63	5.271G	64	5.264G
65	5.470G	66	5.674G	67	5.312G	68	5.389G
69	5.341G	70	5.358G	71	5.394G	72	5.440G
73	5.493G	74	5.538G	75	5.604G	76	5.699G
77	5.554G	78	5.586G	79	5.380G	80	5.454G
81	5.662G	82	5.304G	83	5.443G	84	5.267G
85	5.649G	86	5.364G	87	5.487G	88	5.636G
89	5.276G	90	5.360G	91	5.722G	92	5.694G
93	5.616G	94	5.255G	95	5.351G	96	5.424G
97	5.279G	98	5.663G	99	5.382G	100	5.373G



Hopping Frequency Sequence Name: HOP_FREQ_SEQ_25

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.536G	2	5.267G	3	5.257G	4	5.254G
5	5.720G	6	5.325G	7	5.329G	8	5.393G
9	5.689G	10	5.621G	11	5.601G	12	5.464G
13	5.700G	14	5.261G	15	5.418G	16	5.270G
17	5.417G	18	5.702G	19	5.341G	20	5.565G
21	5.573G	22	5.310G	23	5.537G	24	5.612G
25	5.495G	26	5.314G	27	5.714G	28	5.723G
29	5.292G	30	5.369G	31	5.401G	32	5.378G
33	5.716G	34	5.311G	35	5.667G	36	5.455G
37	5.467G	38	5.336G	39	5.520G	40	5.600G
41	5.535G	42	5.595G	43	5.604G	44	5.363G
45	5.696G	46	5.472G	47	5.677G	48	5.598G
49	5.425G	50	5.391G	51	5.660G	52	5.650G
53	5.352G	54	5.586G	55	5.360G	56	5.371G
57	5.532G	58	5.420G	59	5.692G	60	5.454G
61	5.579G	62	5.539G	63	5.617G	64	5.516G
65	5.498G	66	5.649G	67	5.452G	68	5.514G
69	5.412G	70	5.293G	71	5.668G	72	5.574G
73	5.547G	74	5.424G	75	5.326G	76	5.722G
77	5.524G	78	5.289G	79	5.258G	80	5.713G
81	5.451G	82	5.251G	83	5.618G	84	5.357G
85	5.446G	86	5.348G	87	5.427G	88	5.681G
89	5.544G	90	5.260G	91	5.606G	92	5.280G
93	5.501G	94	5.438G	95	5.474G	96	5.284G
97	5.382G	98	5.376G	99	5.444G	100	5.496G



Hopping Frequency Sequence Name: HOP_FREQ_SEQ_26

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.635G	2	5.651G	3	5.269G	4	5.372G
5	5.328G	6	5.410G	7	5.344G	8	5.563G
9	5.250G	10	5.420G	11	5.549G	12	5.565G
13	5.346G	14	5.682G	15	5.548G	16	5.632G
17	5.573G	18	5.614G	19	5.376G	20	5.690G
21	5.495G	22	5.409G	23	5.348G	24	5.648G
25	5.469G	26	5.666G	27	5.272G	28	5.408G
29	5.584G	30	5.571G	31	5.553G	32	5.425G
33	5.512G	34	5.619G	35	5.386G	36	5.368G
37	5.318G	38	5.620G	39	5.609G	40	5.336G
41	5.560G	42	5.424G	43	5.610G	44	5.429G
45	5.433G	46	5.680G	47	5.313G	48	5.366G
49	5.576G	50	5.396G	51	5.669G	52	5.663G
53	5.283G	54	5.562G	55	5.270G	56	5.697G
57	5.481G	58	5.668G	59	5.533G	60	5.688G
61	5.487G	62	5.305G	63	5.389G	64	5.589G
65	5.296G	66	5.364G	67	5.597G	68	5.494G
69	5.419G	70	5.698G	71	5.427G	72	5.662G
73	5.397G	74	5.261G	75	5.444G	76	5.465G
77	5.678G	78	5.498G	79	5.684G	80	5.629G
81	5.464G	82	5.282G	83	5.251G	84	5.700G
85	5.473G	86	5.634G	87	5.567G	88	5.380G
89	5.460G	90	5.468G	91	5.362G	92	5.527G
93	5.539G	94	5.720G	95	5.439G	96	5.704G
97	5.438G	98	5.339G	99	5.583G	100	5.486G



Hopping Frequency Sequence Name: HOP_FREQ_SEQ_27

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.370G	2	5.453G	3	5.644G	4	5.308G
5	5.373G	6	5.503G	7	5.257G	8	5.336G
9	5.387G	10	5.669G	11	5.319G	12	5.548G
13	5.273G	14	5.334G	15	5.663G	16	5.428G
17	5.492G	18	5.638G	19	5.295G	20	5.388G
21	5.512G	22	5.513G	23	5.455G	24	5.405G
25	5.496G	26	5.538G	27	5.596G	28	5.654G
29	5.368G	30	5.674G	31	5.279G	32	5.696G
33	5.277G	34	5.718G	35	5.600G	36	5.327G
37	5.660G	38	5.714G	39	5.723G	40	5.631G
41	5.539G	42	5.420G	43	5.482G	44	5.353G
45	5.345G	46	5.702G	47	5.390G	48	5.668G
49	5.349G	50	5.480G	51	5.534G	52	5.583G
53	5.256G	54	5.526G	55	5.643G	56	5.304G
57	5.435G	58	5.377G	59	5.264G	60	5.656G
61	5.450G	62	5.448G	63	5.298G	64	5.697G
65	5.282G	66	5.468G	67	5.586G	68	5.430G
69	5.561G	70	5.576G	71	5.401G	72	5.402G
73	5.553G	74	5.568G	75	5.323G	76	5.281G
77	5.285G	78	5.381G	79	5.270G	80	5.635G
81	5.577G	82	5.486G	83	5.684G	84	5.602G
85	5.374G	86	5.708G	87	5.501G	88	5.592G
89	5.499G	90	5.484G	91	5.682G	92	5.607G
93	5.507G	94	5.375G	95	5.678G	96	5.641G
97	5.646G	98	5.557G	99	5.588G	100	5.691G



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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_28

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.347G	2	5.450G	3	5.355G	4	5.604G
5	5.544G	6	5.673G	7	5.325G	8	5.523G
9	5.721G	10	5.585G	11	5.703G	12	5.475G
13	5.390G	14	5.525G	15	5.337G	16	5.267G
17	5.285G	18	5.320G	19	5.322G	20	5.281G
21	5.682G	22	5.675G	23	5.718G	24	5.669G
25	5.279G	26	5.269G	27	5.265G	28	5.636G
29	5.677G	30	5.483G	31	5.376G	32	5.495G
33	5.535G	34	5.335G	35	5.601G	36	5.275G
37	5.349G	38	5.368G	39	5.552G	40	5.521G
41	5.411G	42	5.417G	43	5.457G	44	5.303G
45	5.366G	46	5.709G	47	5.437G	48	5.292G
49	5.536G	50	5.298G	51	5.405G	52	5.333G
53	5.658G	54	5.354G	55	5.657G	56	5.623G
57	5.403G	58	5.421G	59	5.534G	60	5.491G
61	5.582G	62	5.713G	63	5.546G	64	5.428G
65	5.459G	66	5.435G	67	5.512G	68	5.352G
69	5.280G	70	5.440G	71	5.338G	72	5.487G
73	5.426G	74	5.288G	75	5.722G	76	5.705G
77	5.704G	78	5.628G	79	5.538G	80	5.478G
81	5.602G	82	5.434G	83	5.710G	84	5.441G
85	5.315G	86	5.717G	87	5.714G	88	5.569G
89	5.592G	90	5.461G	91	5.344G	92	5.622G
93	5.511G	94	5.460G	95	5.409G	96	5.668G
97	5.264G	98	5.517G	99	5.584G	100	5.259G



Hopping Frequency Sequence Name: HOP_FREQ_SEQ_29

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.449G	2	5.476G	3	5.473G	4	5.397G
5	5.508G	6	5.695G	7	5.656G	8	5.679G
9	5.435G	10	5.293G	11	5.618G	12	5.439G
13	5.468G	14	5.521G	15	5.563G	16	5.462G
17	5.633G	18	5.641G	19	5.533G	20	5.669G
21	5.486G	22	5.627G	23	5.403G	24	5.348G
25	5.614G	26	5.529G	27	5.671G	28	5.549G
29	5.638G	30	5.295G	31	5.518G	32	5.255G
33	5.432G	34	5.277G	35	5.709G	36	5.535G
37	5.286G	38	5.557G	39	5.619G	40	5.719G
41	5.259G	42	5.320G	43	5.639G	44	5.429G
45	5.451G	46	5.603G	47	5.382G	48	5.341G
49	5.357G	50	5.714G	51	5.377G	52	5.423G
53	5.580G	54	5.314G	55	5.335G	56	5.543G
57	5.278G	58	5.406G	59	5.676G	60	5.454G
61	5.591G	62	5.433G	63	5.632G	64	5.532G
65	5.697G	66	5.422G	67	5.478G	68	5.321G
69	5.381G	70	5.569G	71	5.398G	72	5.272G
73	5.500G	74	5.635G	75	5.280G	76	5.323G
77	5.516G	78	5.299G	79	5.710G	80	5.620G
81	5.675G	82	5.345G	83	5.362G	84	5.498G
85	5.322G	86	5.339G	87	5.552G	88	5.648G
89	5.541G	90	5.523G	91	5.337G	92	5.380G
93	5.650G	94	5.326G	95	5.418G	96	5.502G
97	5.351G	98	5.264G	99	5.626G	100	5.565G



Hopping Frequency Sequence Name: HOP_FREQ_SEQ_30

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.672G	2	5.293G	3	5.512G	4	5.436G
5	5.415G	6	5.447G	7	5.336G	8	5.636G
9	5.316G	10	5.650G	11	5.392G	12	5.567G
13	5.600G	14	5.668G	15	5.696G	16	5.459G
17	5.305G	18	5.396G	19	5.574G	20	5.587G
21	5.623G	22	5.644G	23	5.724G	24	5.442G
25	5.294G	26	5.548G	27	5.253G	28	5.443G
29	5.542G	30	5.258G	31	5.261G	32	5.353G
33	5.515G	34	5.430G	35	5.648G	36	5.344G
37	5.296G	38	5.462G	39	5.514G	40	5.709G
41	5.562G	42	5.622G	43	5.540G	44	5.365G
45	5.417G	46	5.255G	47	5.513G	48	5.639G
49	5.621G	50	5.494G	51	5.358G	52	5.398G
53	5.700G	54	5.569G	55	5.378G	56	5.420G
57	5.444G	58	5.572G	59	5.362G	60	5.297G
61	5.712G	62	5.519G	63	5.303G	64	5.505G
65	5.486G	66	5.466G	67	5.597G	68	5.427G
69	5.448G	70	5.460G	71	5.310G	72	5.502G
73	5.590G	74	5.487G	75	5.625G	76	5.581G
77	5.431G	78	5.723G	79	5.545G	80	5.264G
81	5.651G	82	5.338G	83	5.301G	84	5.299G
85	5.346G	86	5.713G	87	5.282G	88	5.286G
89	5.559G	90	5.593G	91	5.533G	92	5.278G
93	5.266G	94	5.332G	95	5.380G	96	5.350G
97	5.483G	98	5.682G	99	5.414G	100	5.428G