



A D T

DFS TEST REPORT

REPORT NO.: RF120724E01D-2

MODEL NO.: DIR-845L

FCC ID: KA2IR845LA1

RECEIVED: Jan. 30, 2013

TESTED: Mar. 08, 2013

ISSUED: May 14, 2013

APPLICANT: D-Link Corporation

ADDRESS: No.289, Sinhu 3rd Rd., Neihs District, Taipei
City 114, Taiwan, R.O.C.

ISSUED BY: Bureau Veritas Consumer Products Services (H.K.)
Ltd., Taoyuan Branch Hsin Chu Laboratory

LAB ADDRESS : No. 81-1, Lu Liao Keng, 9th Ling, Wu Lung Tsuen,
Chiung Lin Hsiang, Hsin Chu Hsien 307, Taiwan,
R.O.C.

TEST LOCATION (1): No. 81-1, Lu Liao Keng, 9th Ling, Wu Lung Tsuen,
Chiung Lin Hsiang, Hsin Chu Hsien 307, Taiwan,
R.O.C.

TEST LOCATION (2): No. 49, Ln. 206, Wende Rd., Shangshan Tsuen,
Chiung Lin Hsiang, Hsin Chu Hsien 307, Taiwan,
R.O.C.

This report should not be used by the client to
claim product certification, approval, or
endorsement by TAF or any government
agencies.



This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification



Table of Contents

RELEASE CONTROL RECORD	3
1. CERTIFICATION	4
2. EUT INFORMATION	5
2.1 OPERATING FREQUENCY BANDS AND MODE OF EUT	5
2.2 EUT SOFTWARE AND FIRMWARE VERSION	5
2.3 DESCRIPTION OF AVAILABLE ANTENNAS TO THE EUT	6
2.4 EUT MAXIMUM CONDUCTED POWER	7
2.5 EUT MAXIMUM E.I.R.P. POWER	8
2.6 TRANSMIT POWER CONTROL (TPC)	9
2.7 STATEMENT OF MAUNFACTURER	9
3. U-NII DFS RULE REQUIREMENTS	10
3.1 WORKING MODES AND REQUIRED TEST ITEMS	10
3.2 TEST LIMITS AND RADAR SIGNAL PARAMETERS	11
4. TEST & SUPPORT EQUIPMENT LIST	13
4.1 TEST INSTRUMENTS	13
4.2 DESCRIPTION OF SUPPORT UNITS	13
5. TEST PROCEDURE	14
5.1 BVADT DFS MEASUREMENT SYSTEM:	14
5.2 CALIBRATION OF DFS DETECTION THRESHOLD LEVEL:	15
5.3 DEVIATION FROM TEST STANDARD	15
5.4 CONDUCTED TEST SETUP CONFIGURATION	16
5.4.1 MASTER MODE	16
6. TEST RESULTS	17
6.1 SUMMARY OF TEST RESULT	17
6.1.1 MASTER MODE	17
6.2 DETAILED TEST RESULTS	18
6.2.1. TEST MODE: DEVICE OPERATING IN MASTER MODE.	18
6.2.1.1 DFS DETECTION THRESHOLD	18
6.2.1.2 CHANNEL AVAILABILITY CHECK TIME	25
6.2.1.3 CHANNEL CLOSING TRANSMISSION AND CHANNEL MOVE TIME	27
6.2.1.4 NON- OCCUPANCY PERIOD	50
6.2.1.5 UNIFORM SPREADING	52
6.2.1.6 U-NII DETECTION BANDWIDTH	52
6.2.1.7 NON-CO-CHANNEL TEST	56
6.2.1.8 TRANSMIT POWER CONTROL (TPC)	56
7 INFORMATION ON THE TESTING LABORATORIES	57
8 APPENDIX-A	58
9 APPENDIX-B	59
10 APPENDIX-C	156



A D T

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF120724E01D-2	Original release	May 14, 2013



A D T

1. CERTIFICATION

PRODUCT: WHOLE HOME CLOUD ROUTER 2000
BRAND NAME: D-LINK
MODEL NO.: DIR-845L
TEST SAMPLE: ENGINEERING SAMPLE
APPLICANT: D-Link Corporation
TESTED: Mar. 08, 2013
STANDARDS: FCC Part 15, Subpart E (Section 15.407)
FCC 06-96

The above equipment (Model: DIR-845L) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and was in 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 : Lori Chung , **DATE:** May 14, 2013
(Lori Chung, Specialist)

APPROVED BY : May Chen , **DATE:** May 14, 2013
(May Chen, 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	ü	ü

The EUT has disabled the 5600 ~ 5650 MHz band

2.2 EUT SOFTWARE AND FIRMWARE VERSION

Table 2: The EUT software/firmware version.

No.	Product	Model No.	Software/Firmware Version
1	WHOLE HOME CLOUD ROUTER 2000	DIR-845L	1.01 Thu 21 Feb 2013

2.3 DESCRIPTION OF AVAILABLE ANTENNAS TO THE EUT

Table 3: Antenna list.

ANT	Manufa cture	Model	Antenna Type	Operation Frequency(MHz)	Antenna Gain
E1	MEDIA TEK	N.A	PIFA	5150~5350MHz	4.8
				5470~5725MHz	4.44
E2	MEDIA TEK	N.A	PIFA	5150~5350MHz	3.33
				5470~5725MHz	4.13
E3	MEDIA TEK	N.A	PIFA	5150~5350MHz	2.81
				5470~5725MHz	3.08

ANT	Manufa cture	Model	Antenna Type	Operation Frequency(MHz)	Antenna Gain
E4	MEDIA TEK	N.A	PIFA	5150~5350MHz	2.42
				5470~5725MHz	2.35
E5	MEDIA TEK	N.A	PIFA	5150~5350MHz	3.49
				5470~5725MHz	2.41
E6	MEDIA TEK	N.A	PIFA	5150~5350MHz	2.5
				5470~5725MHz	1.71

2.4 EUT MAXIMUM CONDUCTED POWER

TABLE 4: THE MEASURED CONDUCTED OUTPUT POWER

802.11a

Frequency Band(MHz)	MAX. Power	
	Output Power(dBm)	Output Power(mW)
5250~5350MHz	21.01	126.183
5470~5725MHz	21.01	126.183

802.11n HT20

Frequency Band(MHz)	MAX. Power	
	Output Power(dBm)	Output Power(mW)
5250~5350MHz	21.09	128.452
5470~5725MHz	21.15	130.347

802.11n HT40

Frequency Band(MHz)	MAX. Power	
	Output Power(dBm)	Output Power(mW)
5250~5350MHz	23.11	204.537
5470~5725MHz	22.94	196.61

2.5 EUT MAXIMUM EIRP POWER

TABLE 5: THE EIRP OUTPUT POWER LIST

802.11a

Frequency Band(MHz)	MAX. Power	
	Output Power(dBm)	Output Power(mW)
5250~5350MHz	25.81	381.066
5470~5725MHz	25.45	350.752

802.11n HT20

Frequency Band(MHz)	MAX. Power	
	Output Power(dBm)	Output Power(mW)
5250~5350MHz	25.89	388.15
5470~5725MHz	25.59	362.243

802.11n HT40

Frequency Band(MHz)	MAX. Power	
	Output Power(dBm)	Output Power(mW)
5250~5350MHz	27.91	618.016
5470~5725MHz	27.38	547.016

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 EIRP of this device is 618.016mW which more than 500mW, therefore it's require TPC function.

2.7 STATEMENT OF MAUNFACTURER

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 1 and 2 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	ü	ü	ü
DFS Detection Threshold	ü	Not required	ü
Channel Availability Check Time	ü	Not required	Not required
Uniform Spreading	ü	Not required	Not required
U-NII Detection Bandwidth	ü	Not required	ü

Table 7: Applicability of DFS requirements during normal operation.

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

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 and 2)
≥ 200 milliwatt	-64 dBm
< 200 milliwatt	-62 dBm

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

Table 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 80% of the UNII 99% transmission power bandwidth. See Note 3.

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

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

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

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



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
1	1	1428	18	60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120

Table 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 1: Test instruments list.

DESCRIPTION & MANUFACTURER	MODEL NO.	BRAND	CALIBRATED DATE	CALIBRATED UNTIL
R&S Spectrum analyzer	FSP40	R&S	May 09, 2012	May 08, 2013
Signal generator	8645A	Agilent	Aug 24, 2012	Aug 23, 2013

4.2 DESCRIPTION OF SUPPORT UNITS

Table 2: Support Unit information.

No.	Product	Brand	Model No.	FCC ID	Spec.
1	USB Wireless LAN Adapter	SONY	UWA-BR100	AK8UWABR100	

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

Table 3: Software/Firmware information.

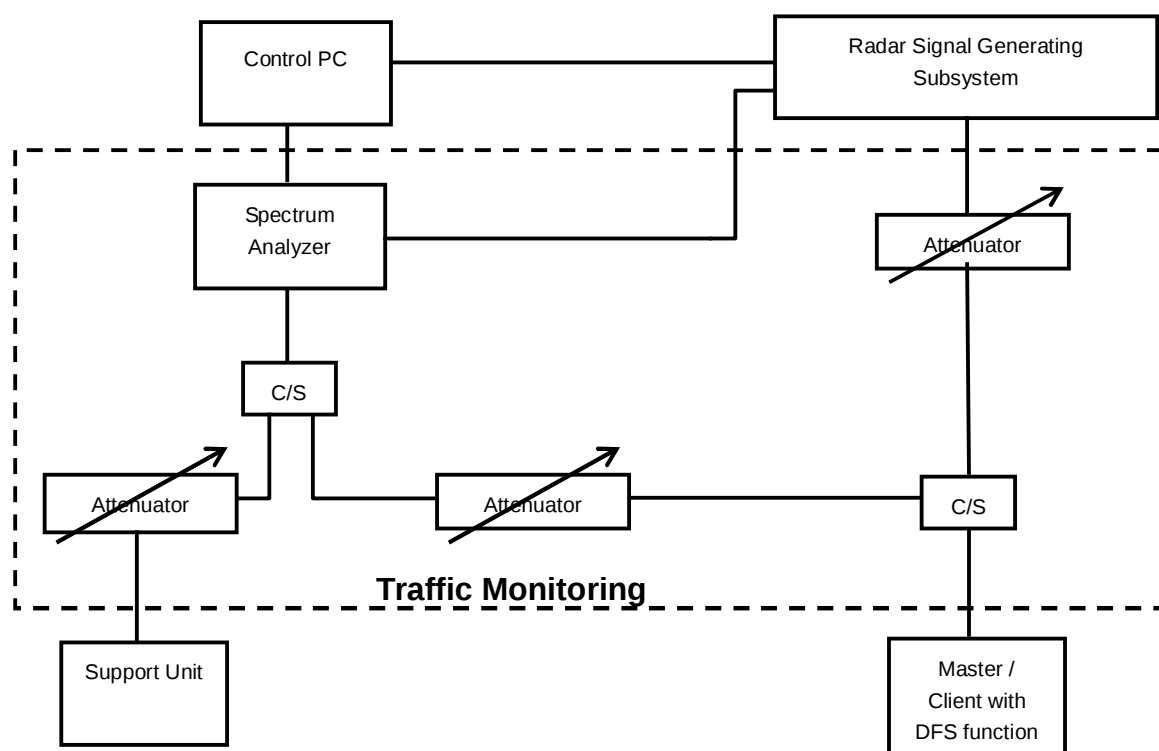
No.	Product	Model No.	Software/Firmware Version
1	USB Wireless LAN Adapter	UWA-BR100	Firmware Version: 7.7.0.63

5. TEST PROCEDURE

5.1 BVADT 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).

Conducted setup configuration of ADT DFS Measurement System



The test transmission will always be from the Master Device to the Client Device. While the Client device is set up to associate with the Master device and play the MPEG file (6 y Magic Hours) from Master device, the designated MPEG test file and instructions are located at:

<http://ntiacsd.ntia.doc.gov/dfs/>.

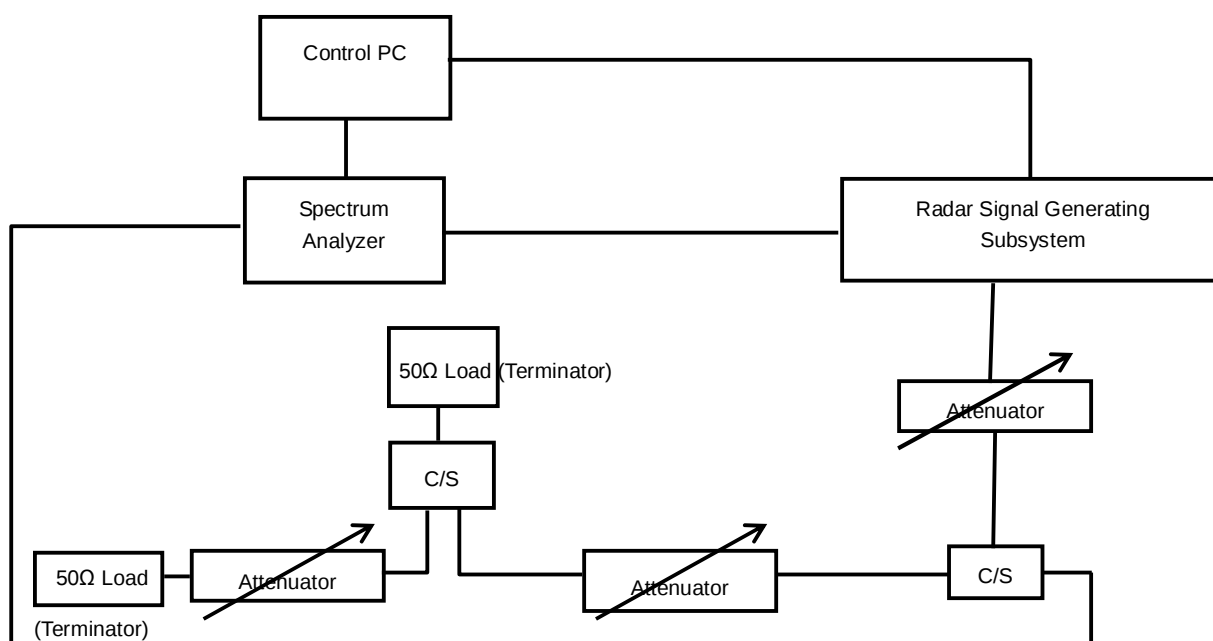
5.2 CALIBRATION OF DFS DETECTION THRESHOLD LEVEL:

The measured channel is 5500MHz and 5510MHz. The radar signal was the same as transmitted channels, and injected into the antenna port of AP (master) or Client Device with Radar Detection, measured the channel closing transmission time and channel move time.

5.2.1 MASTER MODE

The Master antenna net gain is 1.71dBi and required detection threshold is -61.29dBm (= -64 +1.71+1)dBm. The calibrated conducted detection threshold level is set to -61.29 dBm.

Conducted setup configuration of Calibration of DFS Detection Threshold Level

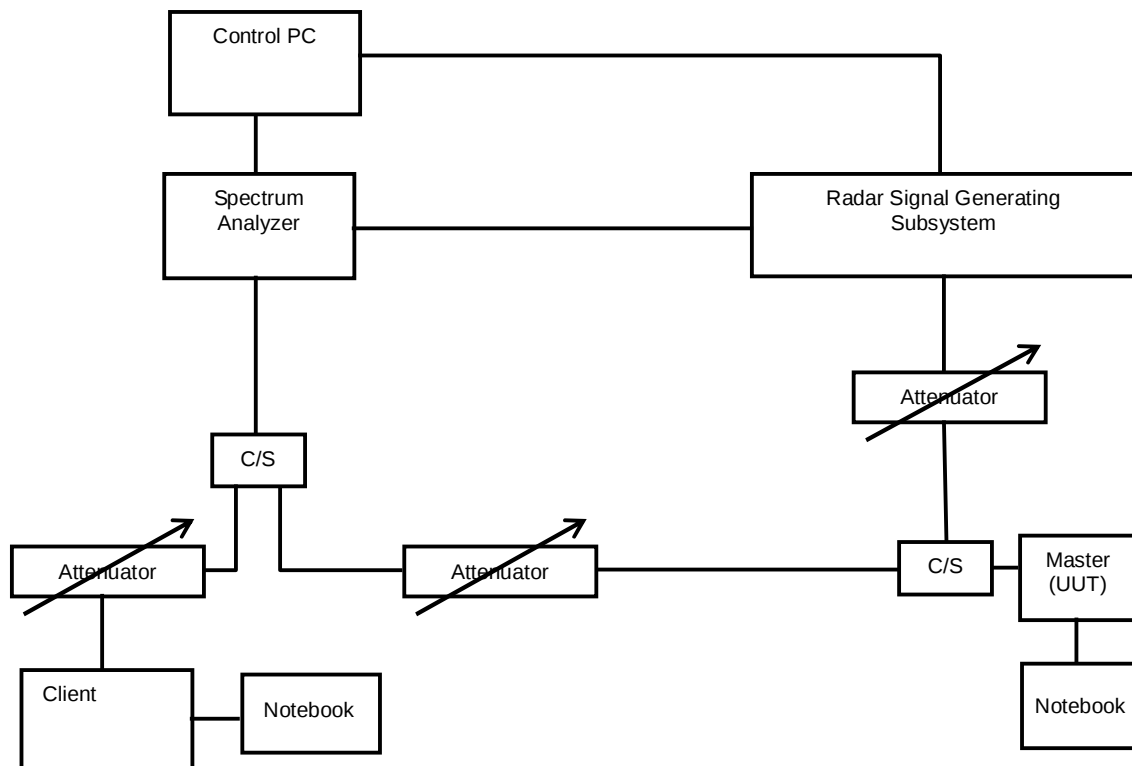


5.3 DEVIATION FROM TEST STANDARD

No deviation.

5.4 CONDUCTED TEST SETUP CONFIGURATION

5.4.1 MASTER MODE



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

**A D T**

6. TEST RESULTS

6.1 SUMMARY OF TEST RESULT

6.1.1 MASTER MODE

Clause	Test Parameter	Remarks	Pass/Fail
15.407	DFS Detection Threshold	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
15.407	U-NII Detection Bandwidth	Applicable	Pass
15.407	Non-Co-Channel test	Applicable	Pass

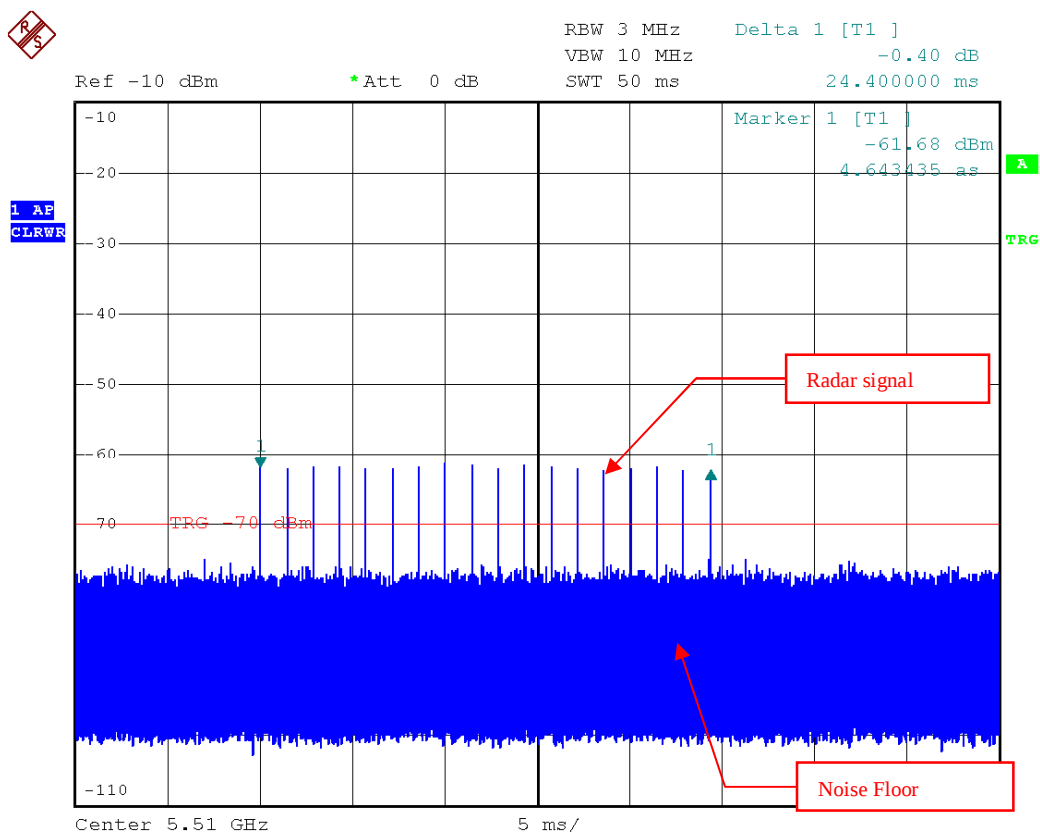
6.2 DETAILED TEST RESULTS

6.2.1. TEST MODE: DEVICE OPERATING IN MASTER MODE.

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

6.2.1.1 DFS DETECTION THRESHOLD

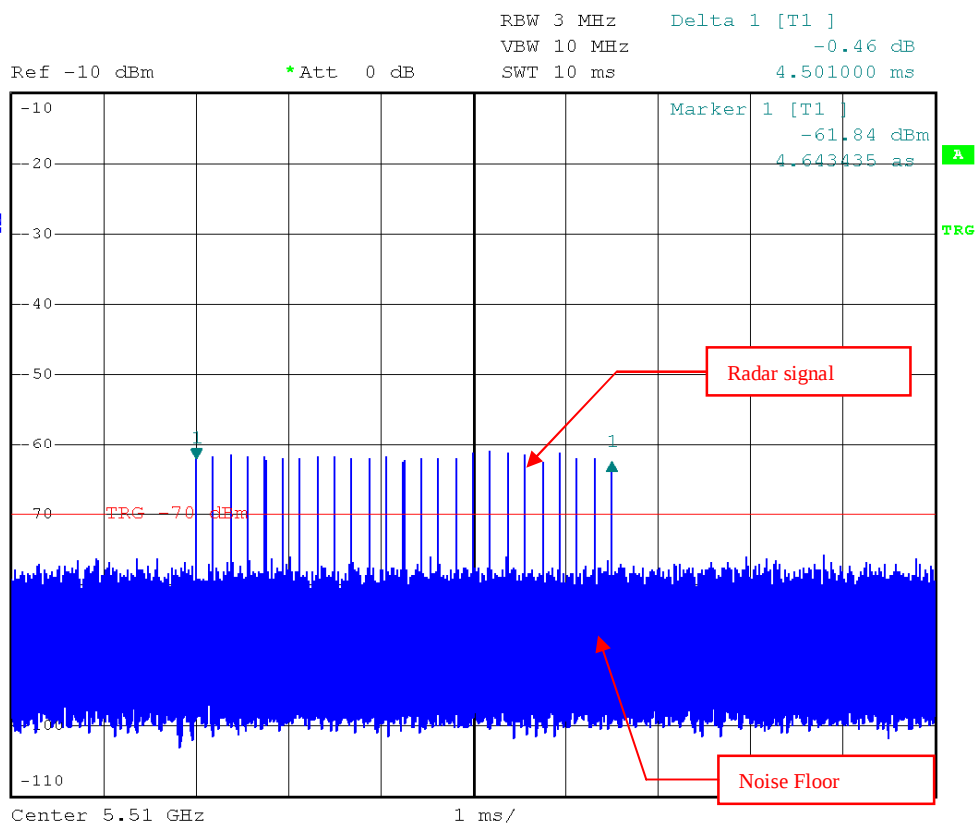
The required detection threshold is -61.29dBm (= -64 +1.71+1) dBm. The conducted radar burst level is set to -61.29dBm.



Radar Signal 1



1 AP
CLRWR



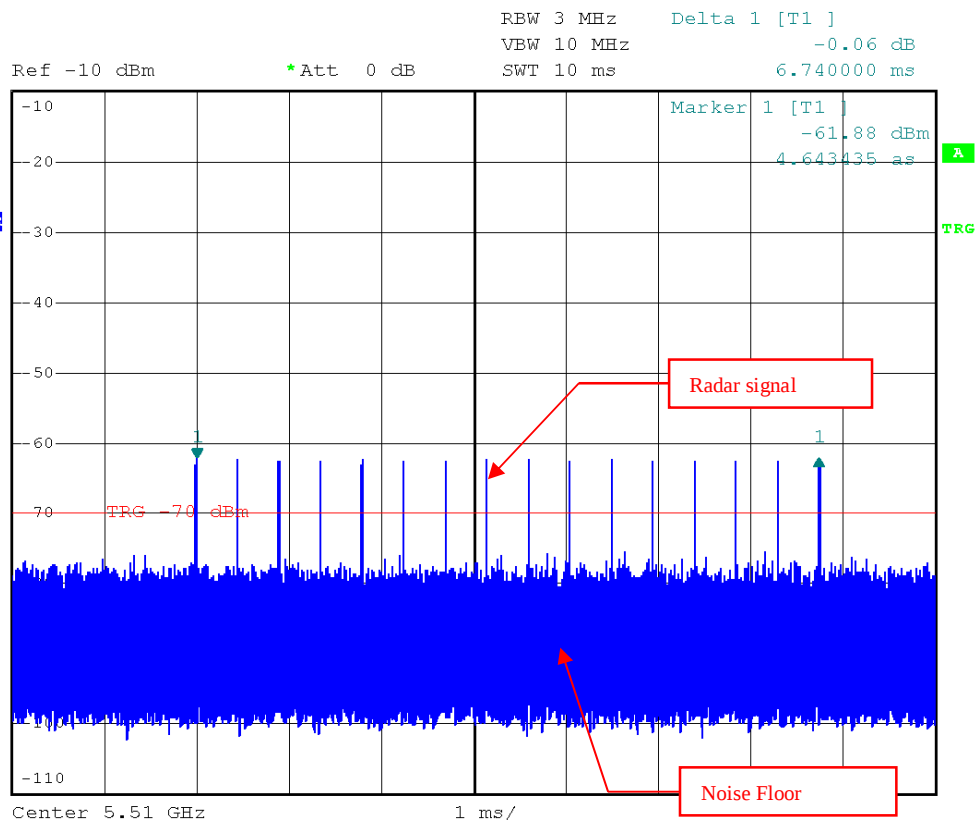
Radar Signal 2



A D T



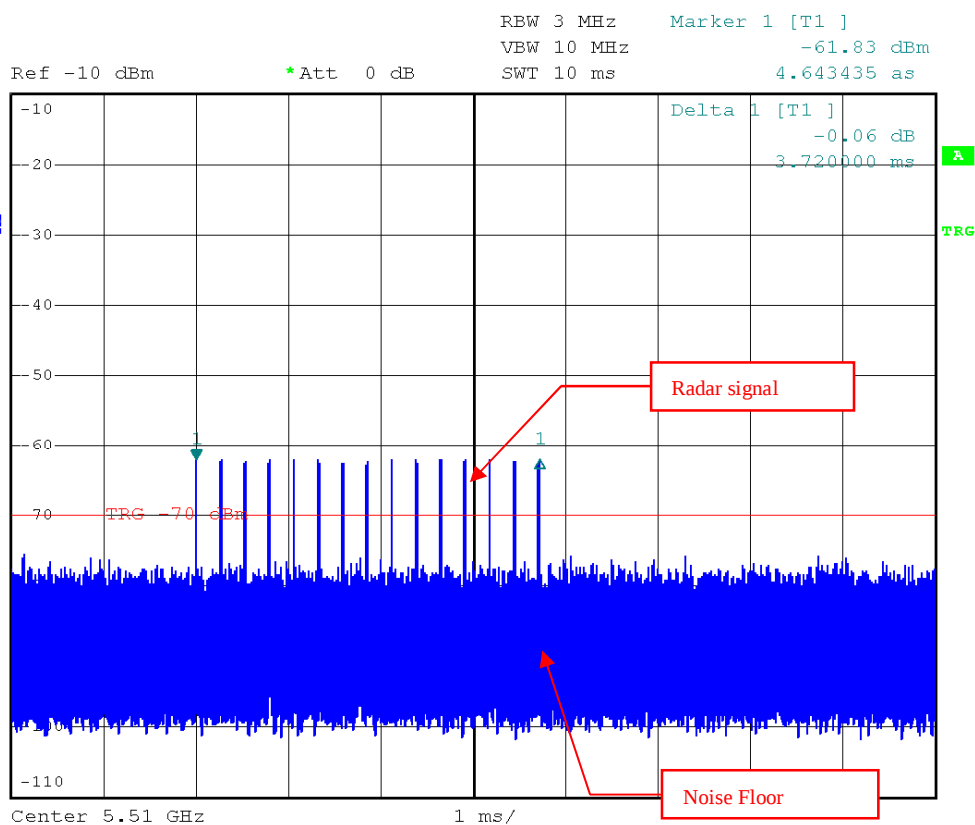
1 AF
CLRWR



Radar Signal 3



1 AP
CLRWR



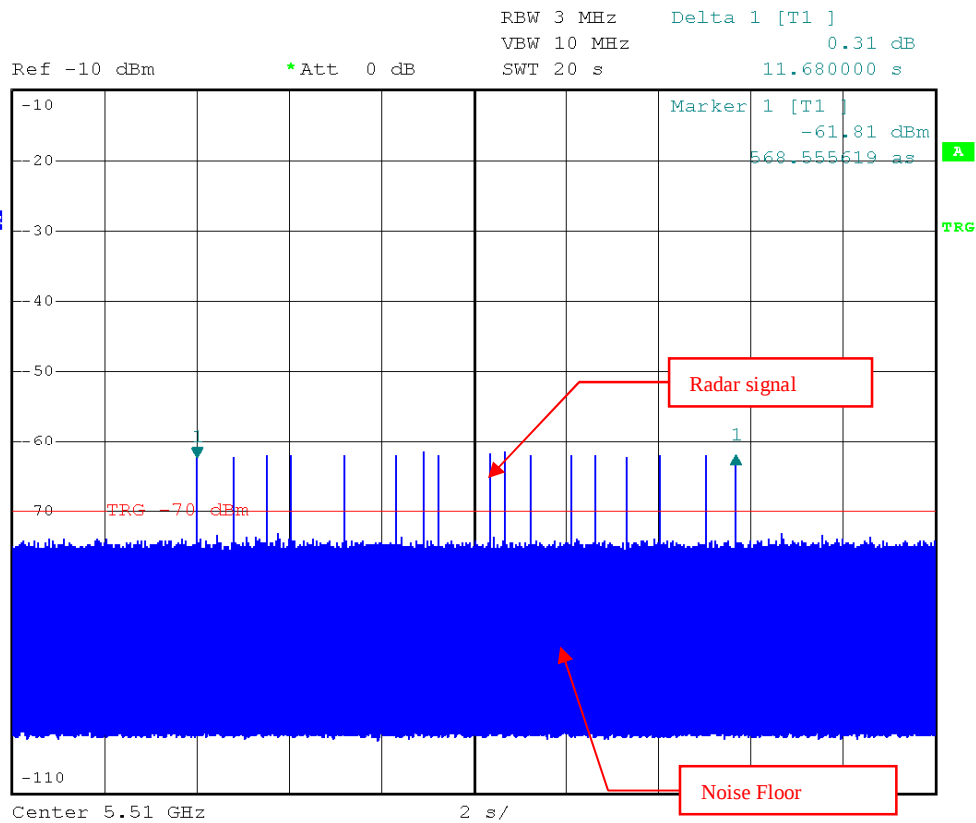
Radar Signal 4



A D T



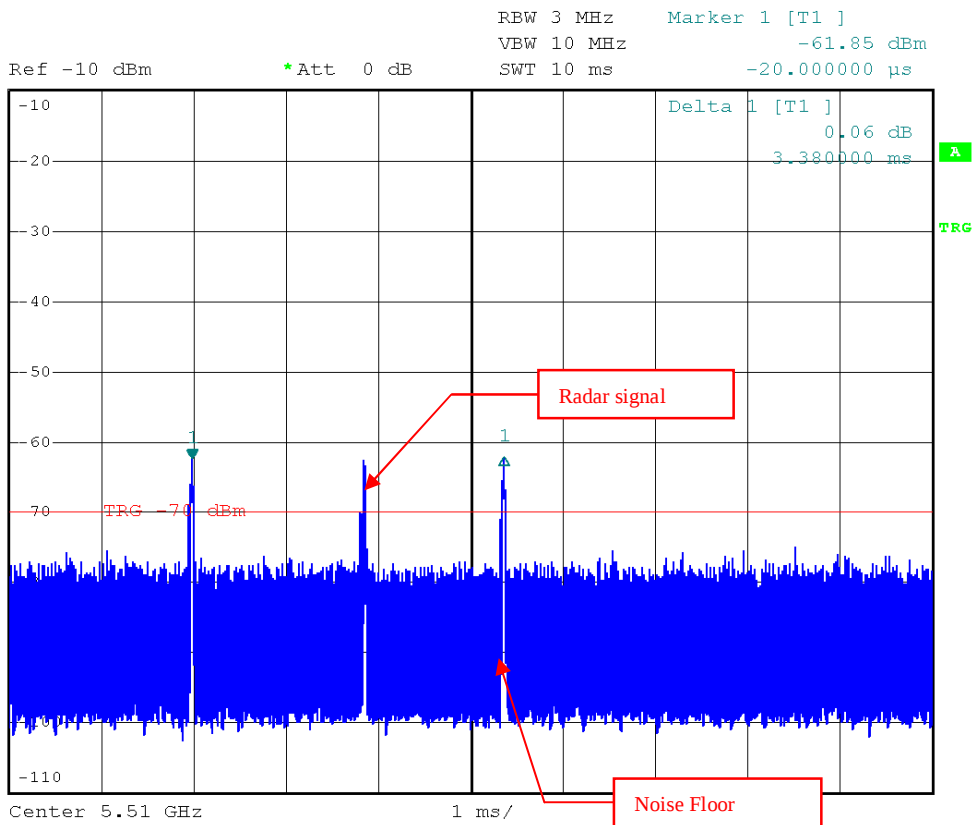
1 RF
CLRWR



Radar Signal 5



1 AP
CLRWR



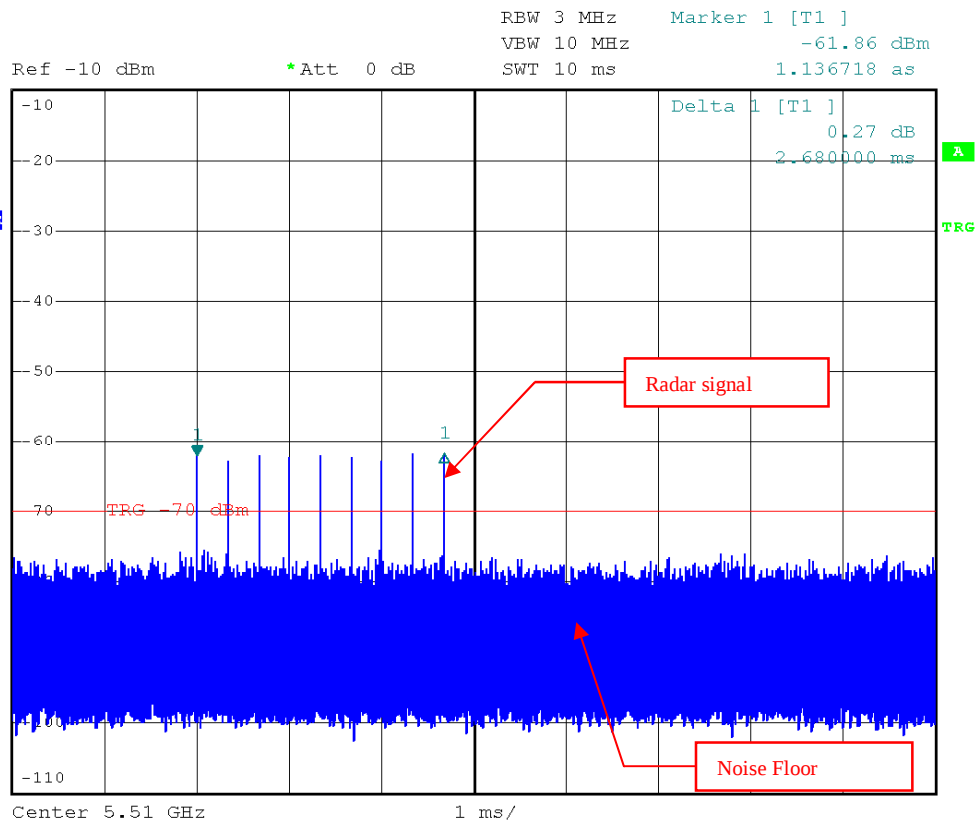
Single Burst of Radar Signal 5



A D T



1 RF
CLRWR



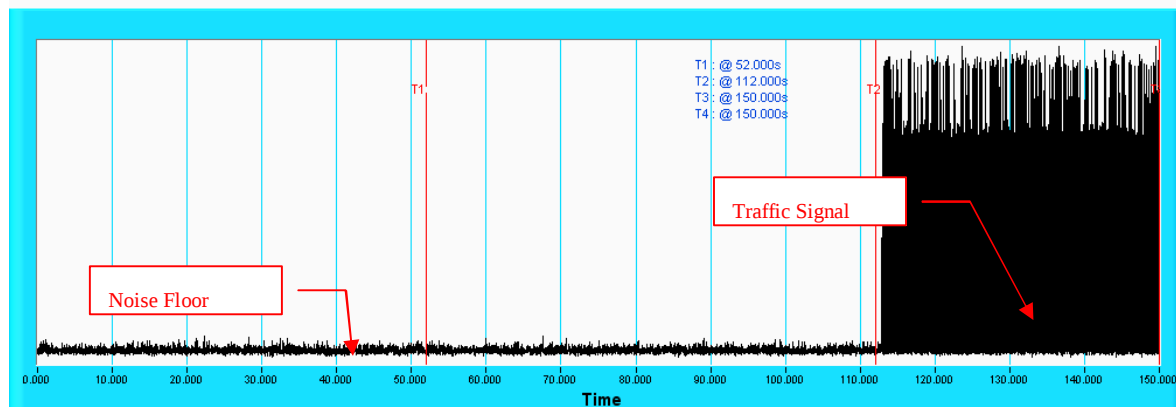
Radar Signal 6

6.2.1.2 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.

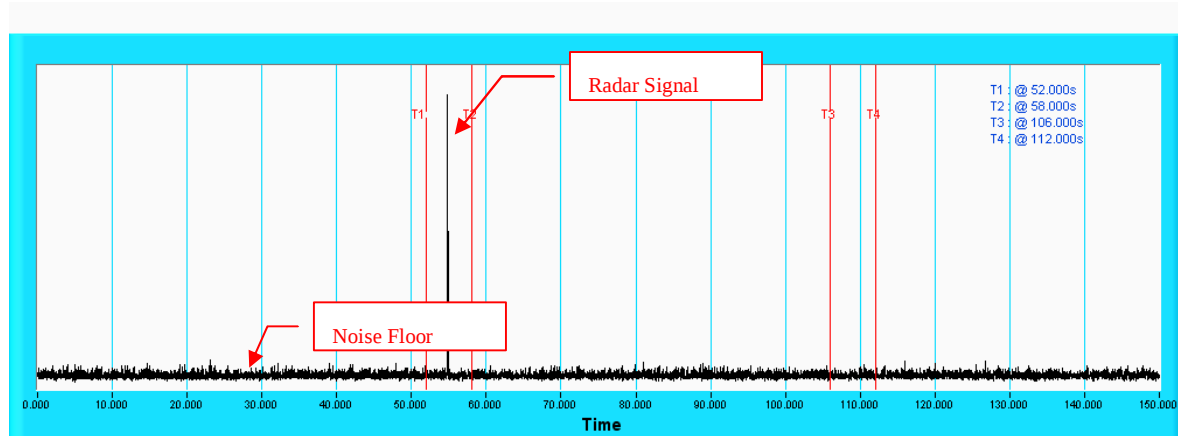
Timing of Radar Signal	Observation	
	EUT	Spectrum Analyzer
Within 1 to 6 second	Detected	No transmissions
Within 54 to 60 second	Detected	No transmissions

Initial Channel Availability Check Time



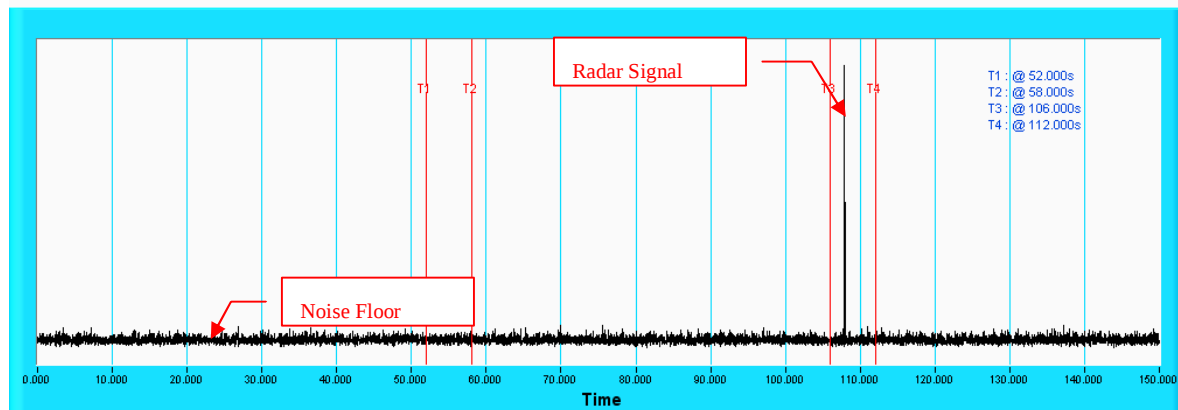
NOTE: T1 denotes the end of power-up time period is 52th second. T2 denotes the end of Channel Availability Check time is 112th second. Channel Availability Check time is equal to (T2 – T1) 60 seconds.

Radar Burst at the Beginning of the Channel Availability Check Time



NOTE: T1 denotes the end of power up time period is 52th second. T2 denotes 58th second and the radar burst was commenced within a 6 second window starting from the end of power-up sequence. T4 denotes the 112th second.

Radar Burst at the End of the Channel Availability Check Time



NOTE: T1 denotes the end of power up time period is 52th second. T3 denotes 106th second and the radar burst was commenced within 6 second from the last of Channel Available Check time. T4 denotes the 112th second.

6.2.1.3 CHANNEL CLOSING TRANSMISSION AND CHANNEL MOVE TIME 802.11n HT20

Table 4: 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	1428	18	30	96.7
2	1-5	150-230	23-29	30	86.7
3	6-10	200-500	16-18	30	83.3
4	11-20	200-500	12-16	30	90
Aggregate (Radar Types 1-4)				120	89.17

Table 5: 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	93.3

Table 6: 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	90

**A D T****802.11n HT40****Table 7: 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	1428	18	30	96.7
2	1-5	150-230	23-29	30	93.3
3	6-10	200-500	16-18	30	90
4	11-20	200-500	12-16	30	90
Aggregate (Radar Types 1-4)				120	92.5

Table 8: 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

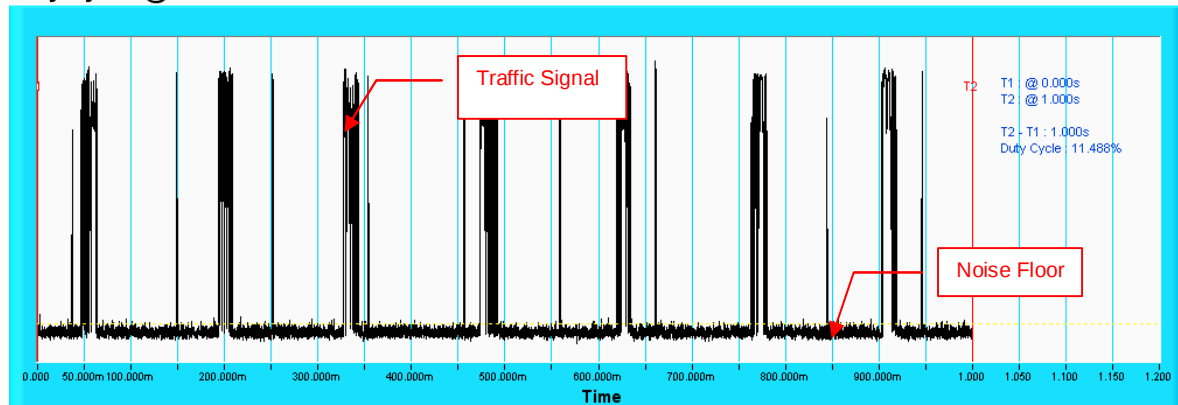
Table 9: Frequency Hopping Radar Test Waveform

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	83.3

Wireless Traffic Loading

802.11n HT20

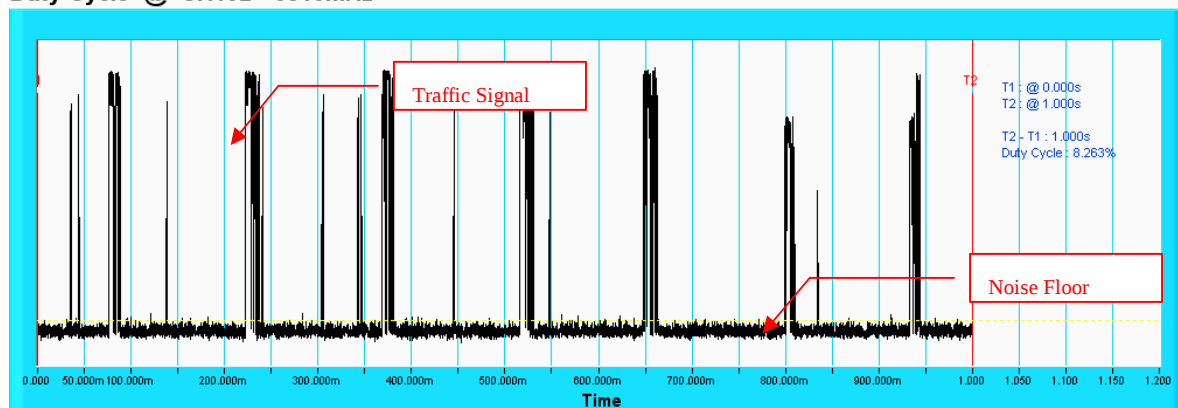
Duty Cycle @ CH100 - 5500MHz



NOTE: T1 denotes the start of duty cycle period is 0th second. T2 denotes the end of duty cycle period is 1th second. T2 – T1= 1 seconds. Duty Cycle = 11.488%

802.11n HT40

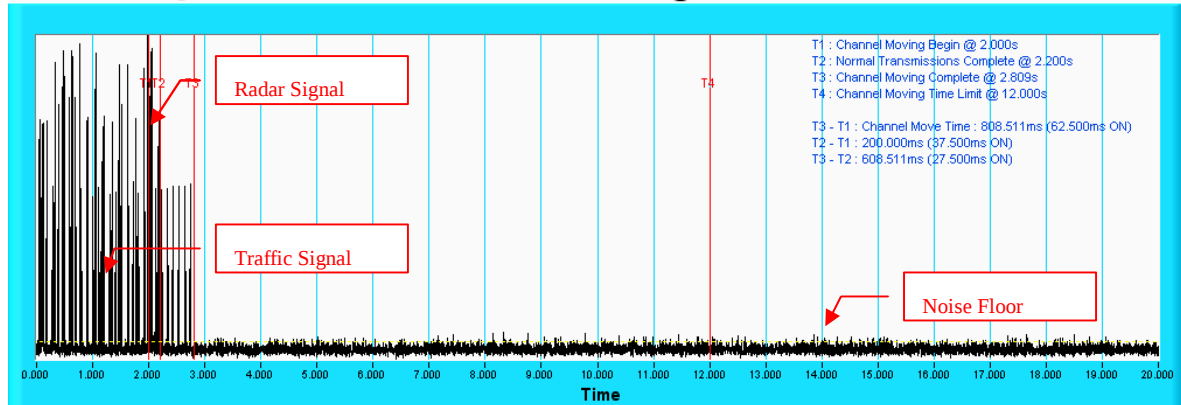
Duty Cycle @ CH102 - 5510MHz



NOTE: T1 denotes the start of duty cycle period is 0th second. T2 denotes the end of duty cycle period is 1th second. T2 – T1= 1 seconds. Duty Cycle = 8.263%

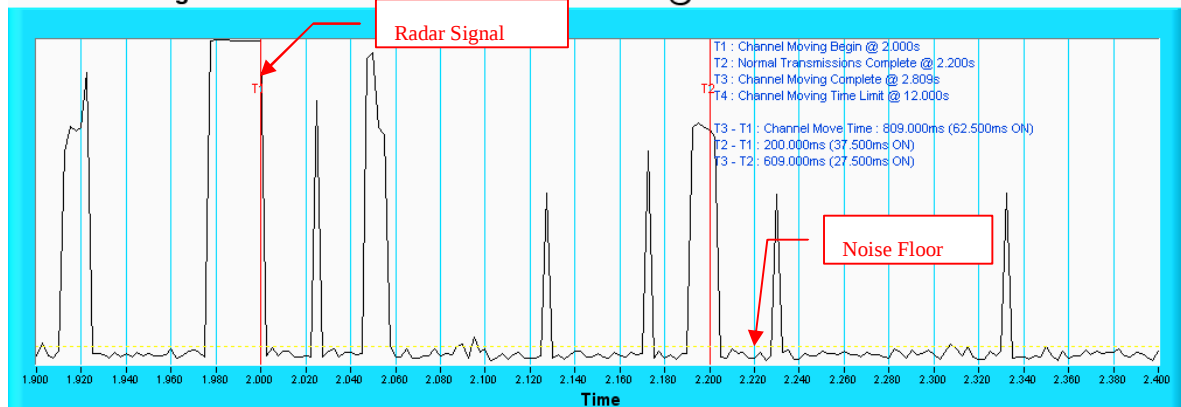
Radar signal 1

Channel Closing Transmission Time & Channel Move Time @ CH102 - 5510MHz



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.

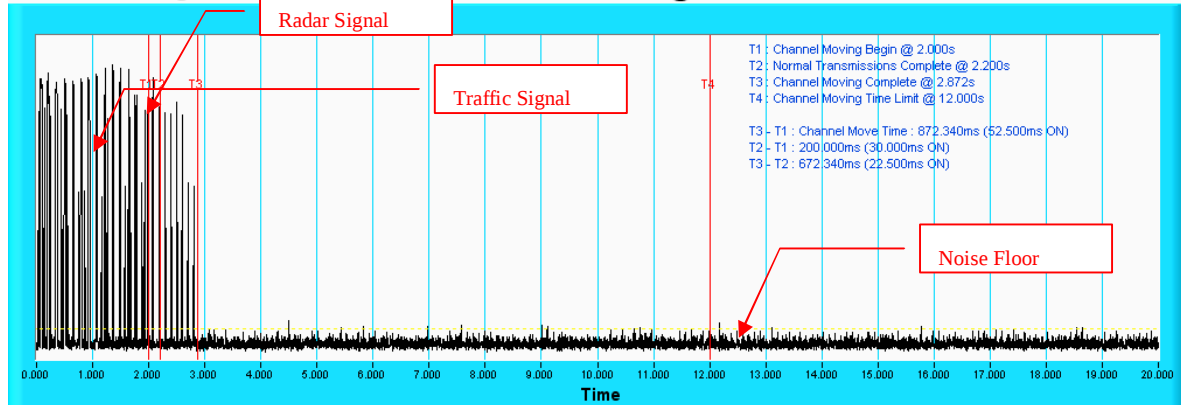
Channel Closing Transmission Time & Channel Move Time @ CH102 - 5510MHz



NOTE: An expanded plot for the device vacates the channel in the required 500ms.

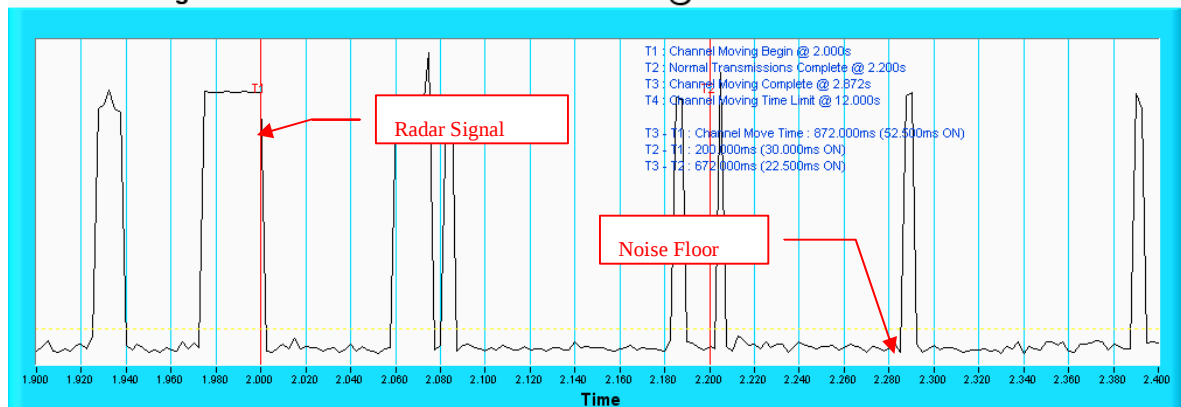
Radar signal 2

Channel Closing Transmission Time & Channel Move Time @ CH102 - 5510MHz



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.

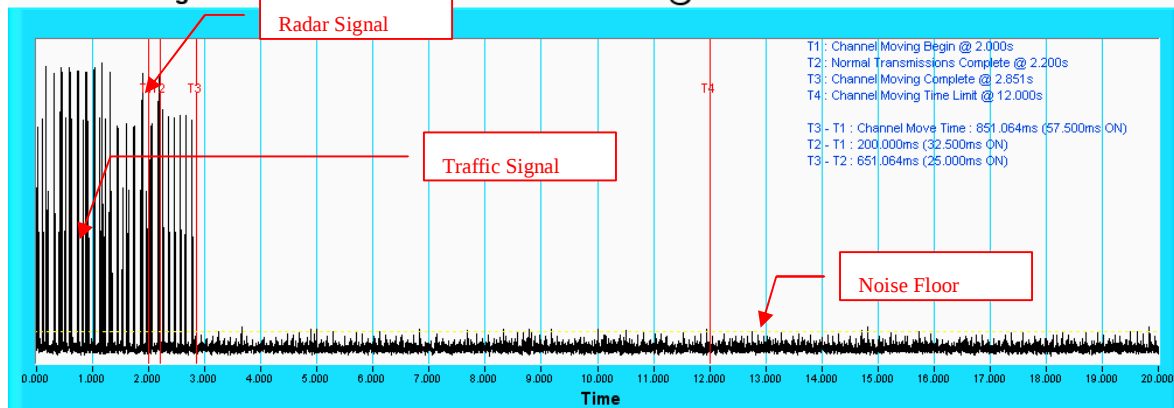
Channel Closing Transmission Time & Channel Move Time @ CH102 - 5510MHz



NOTE: An expanded plot for the device vacates the channel in the required 500ms.

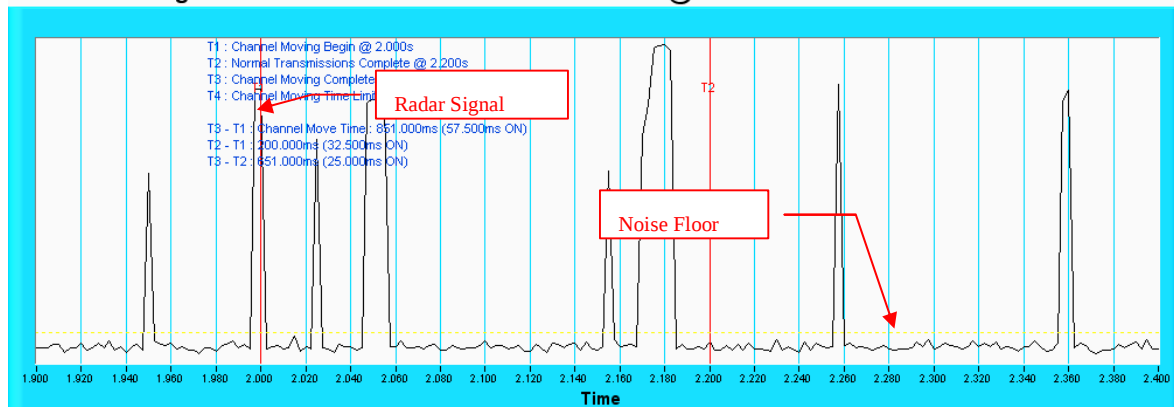
Radar signal 3

Channel Closing Transmission Time & Channel Move Time @ CH102 - 5510MHz



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.

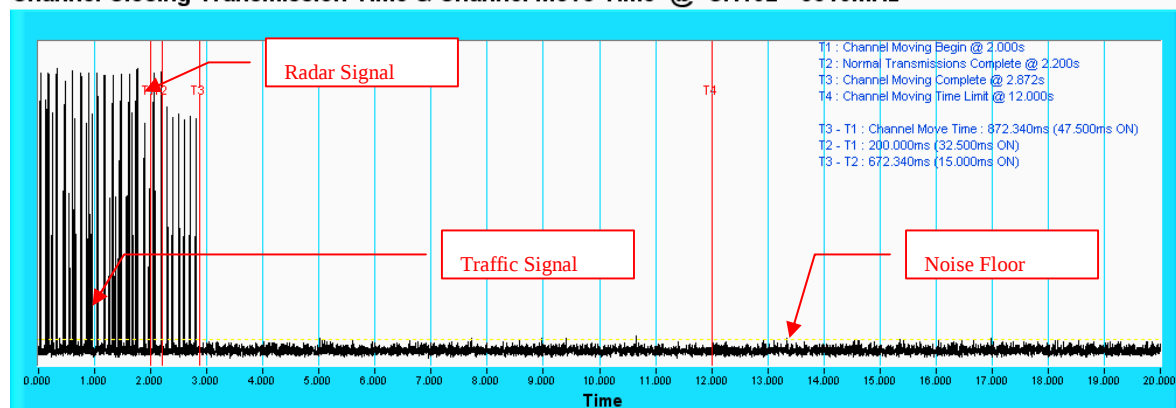
Channel Closing Transmission Time & Channel Move Time @ CH102 - 5510MHz



NOTE: An expanded plot for the device vacates the channel in the required 500ms.

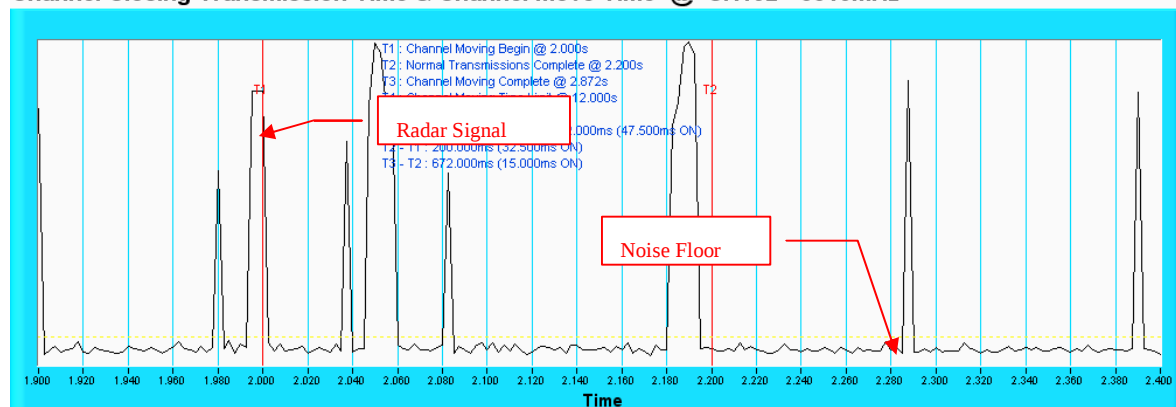
Radar signal 4

Channel Closing Transmission Time & Channel Move Time @ CH102 - 5510MHz



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.

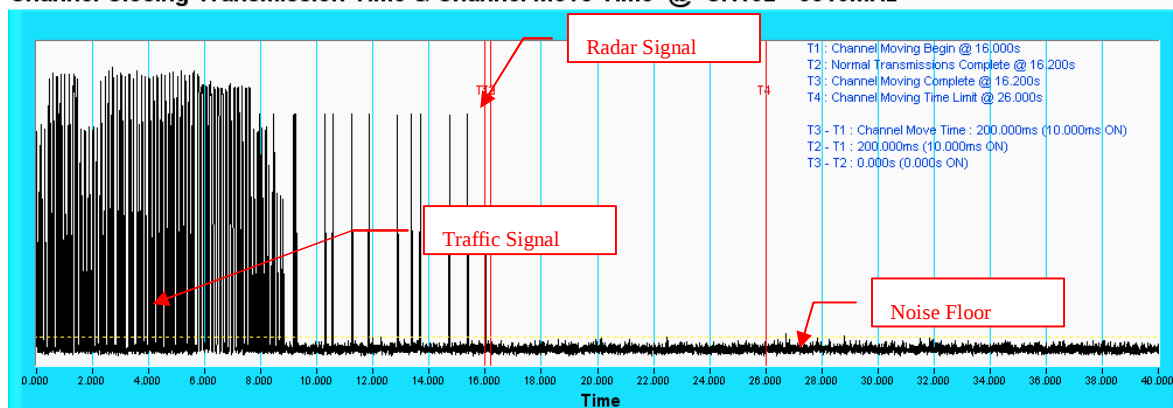
Channel Closing Transmission Time & Channel Move Time @ CH102 - 5510MHz



NOTE: An expanded plot for the device vacates the channel in the required 500ms.

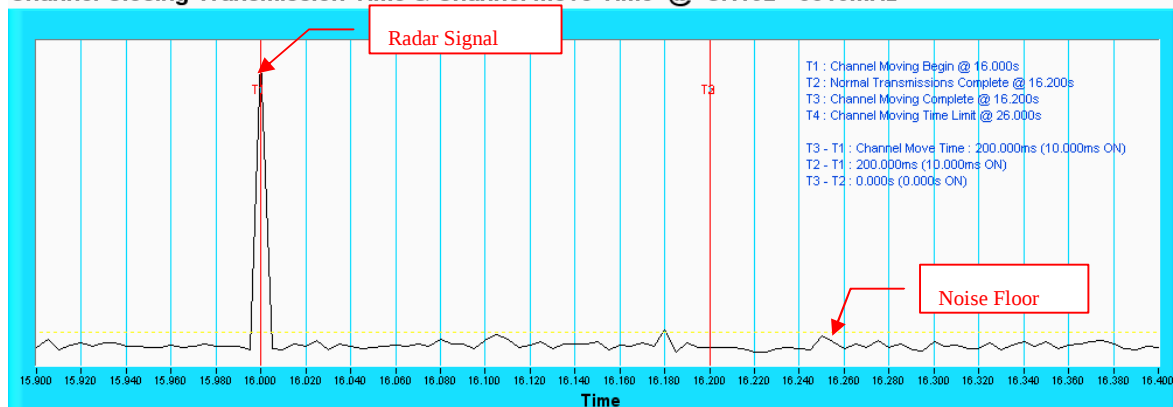
Radar signal 5

Channel Closing Transmission Time & Channel Move Time @ CH102 - 5510MHz



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.

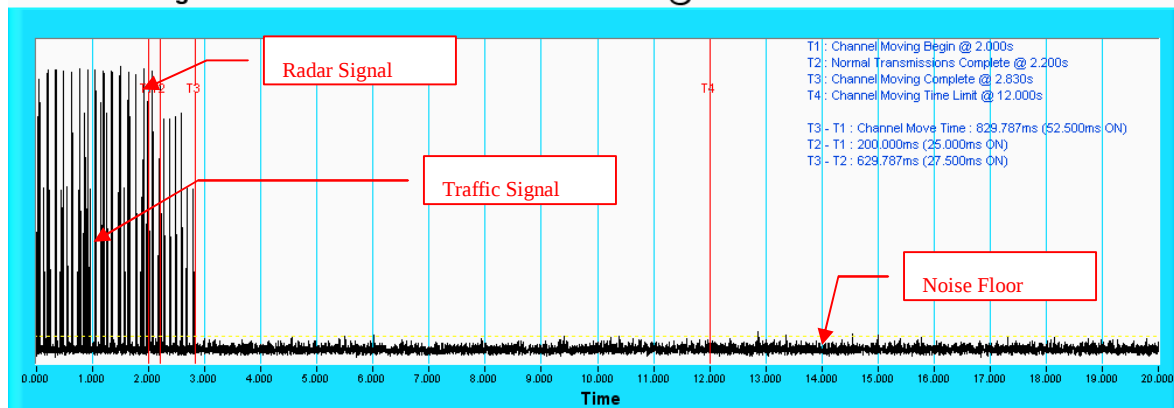
Channel Closing Transmission Time & Channel Move Time @ CH102 - 5510MHz



NOTE: An expanded plot for the device vacates the channel in the required 500ms.

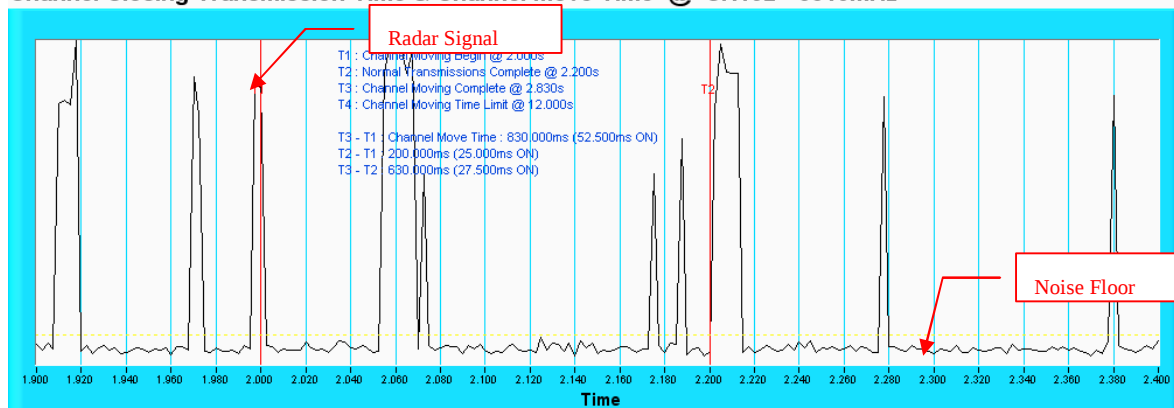
Radar signal 6

Channel Closing Transmission Time & Channel Move Time @ CH102 - 5510MHz



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 @ CH102 - 5510MHz



NOTE: An expanded plot for the device vacates the channel in the required 500ms.

**A D T****802.11n HT20****Type 1 Radar Statistical Performances**

Trial #	Pulses per Burst	Pulse Width (s)	PRI (s)	Detection
1	18	1.0u	1.428m	Yes
2	18	1.0u	1.428m	Yes
3	18	1.0u	1.428m	Yes
4	18	1.0u	1.428m	Yes
5	18	1.0u	1.428m	Yes
6	18	1.0u	1.428m	Yes
7	18	1.0u	1.428m	Yes
8	18	1.0u	1.428m	Yes
9	18	1.0u	1.428m	Yes
10	18	1.0u	1.428m	Yes
11	18	1.0u	1.428m	Yes
12	18	1.0u	1.428m	Yes
13	18	1.0u	1.428m	Yes
14	18	1.0u	1.428m	Yes
15	18	1.0u	1.428m	Yes
16	18	1.0u	1.428m	Yes
17	18	1.0u	1.428m	Yes
18	18	1.0u	1.428m	Yes
19	18	1.0u	1.428m	Yes
20	18	1.0u	1.428m	No
21	18	1.0u	1.428m	Yes
22	18	1.0u	1.428m	Yes
23	18	1.0u	1.428m	Yes
24	18	1.0u	1.428m	Yes
25	18	1.0u	1.428m	Yes
26	18	1.0u	1.428m	Yes
27	18	1.0u	1.428m	Yes
28	18	1.0u	1.428m	Yes
29	18	1.0u	1.428m	Yes
30	18	1.0u	1.428m	Yes

Detection Rate: 96.7 %

**A D T****802.11n HT20**

Type 2 Radar Statistical Performances				
Trial #	Pulses per Burst	Pulse Width (s)	PRI (s)	Detection
1	28	2.3u	151.0u	Yes
2	25	4.6u	163.0u	Yes
3	24	1.4u	214.0u	Yes
4	24	4.0u	217.0u	No
5	29	4.2u	191.0u	Yes
6	26	1.4u	158.0u	Yes
7	26	2.8u	187.0u	Yes
8	24	4.2u	216.0u	Yes
9	28	1.4u	183.0u	Yes
10	25	2.9u	161.0u	Yes
11	24	3.8u	188.0u	Yes
12	27	1.5u	180.0u	Yes
13	26	2.3u	179.0u	Yes
14	25	3.7u	203.0u	Yes
15	23	3.0u	192.0u	Yes
16	28	2.1u	182.0u	Yes
17	24	3.3u	175.0u	Yes
18	23	1.3u	170.0u	Yes
19	27	1.0u	193.0u	Yes
20	27	4.7u	162.0u	Yes
21	24	2.7u	178.0u	Yes
22	24	1.6u	169.0u	Yes
23	23	1.2u	209.0u	No
24	29	1.1u	200.0u	Yes
25	28	1.6u	174.0u	Yes
26	29	1.7u	186.0u	Yes
27	26	3.1u	198.0u	No
28	23	1.1u	209.0u	Yes
29	27	2.5u	229.0u	Yes
30	26	3.5u	195.0u	No
Detection Rate: 86.7 %				

**A D T****802.11n HT20**

Type 3 Radar Statistical Performances				
Trial #	Pulses per Burst	Pulse Width (s)	PRI (s)	Detection
1	16	8.7u	391.0u	Yes
2	17	7.9u	331.0u	Yes
3	16	8.5u	439.0u	Yes
4	17	9.7u	305.0u	Yes
5	17	7.1u	318.0u	Yes
6	17	9.1u	418.0u	Yes
7	18	8.1u	341.0u	Yes
8	16	8.8u	457.0u	Yes
9	16	7.1u	467.0u	Yes
10	18	9.1u	341.0u	Yes
11	17	7.4u	391.0u	No
12	17	8.9u	488.0u	Yes
13	17	6.5u	202.0u	No
14	18	9.1u	306.0u	Yes
15	16	6.9u	305.0u	Yes
16	16	8.9u	249.0u	No
17	16	6.5u	270.0u	Yes
18	18	7.6u	311.0u	Yes
19	17	8.6u	477.0u	Yes
20	16	8.6u	214.0u	Yes
21	16	7.0u	292.0u	Yes
22	17	9.7u	201.0u	Yes
23	18	7.5u	241.0u	Yes
24	18	9.6u	338.0u	Yes
25	16	8.3u	219.0u	Yes
26	18	8.8u	342.0u	Yes
27	16	8.3u	390.0u	No
28	17	7.1u	382.0u	No
29	16	6.8u	372.0u	Yes
30	17	6.9u	410.0u	Yes
Detection Rate: 83.3 %				

**A D T****802.11n HT20**

Type 4 Radar Statistical Performances				
Trial #	Pulses per Burst	Pulse Width (s)	PRI (s)	Detection
1	12	13.3u	329.0u	Yes
2	14	13.2u	245.0u	Yes
3	16	19.4u	282.0u	Yes
4	15	18.8u	366.0u	Yes
5	13	13.0u	361.0u	Yes
6	13	16.3u	256.0u	Yes
7	16	15.0u	382.0u	Yes
8	16	15.1u	240.0u	Yes
9	14	15.3u	276.0u	No
10	14	17.1u	454.0u	Yes
11	14	14.1u	381.0u	Yes
12	15	17.9u	399.0u	Yes
13	13	14.0u	398.0u	Yes
14	13	12.9u	489.0u	Yes
15	12	14.4u	388.0u	Yes
16	15	15.4u	315.0u	Yes
17	13	17.0u	365.0u	Yes
18	15	15.3u	281.0u	Yes
19	13	11.7u	383.0u	Yes
20	15	18.0u	416.0u	Yes
21	13	12.5u	331.0u	Yes
22	15	11.9u	253.0u	Yes
23	13	17.8u	494.0u	Yes
24	13	19.0u	396.0u	No
25	15	16.0u	307.0u	Yes
26	14	17.2u	294.0u	No
27	13	17.6u	483.0u	Yes
28	12	12.2u	427.0u	Yes
29	13	15.8u	406.0u	Yes
30	15	13.0u	480.0u	Yes
Detection Rate: 90.0 %				



A D T

802.11n HT20

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	Yes
7	LP_Signal_07	Yes
8	LP_Signal_08	No
9	LP_Signal_09	No
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	Yes
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: 93.3 %

The Long Pulse Radar pattern shown in Annex B.1



A D T

802.11n HT20

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	No
3	9	1.0u	333.0u	Yes
4	9	1.0u	333.0u	No
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	No
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: 90.0 %				

**A D T****802.11n HT20****Type 6 Radar Statistical Performances**

Trial #	Hopping Frequency Sequence Name	Detection
1	HOP_FREQ_SEQ_01	Yes
2	HOP_FREQ_SEQ_02	No
3	HOP_FREQ_SEQ_03	Yes
4	HOP_FREQ_SEQ_04	No
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	No
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: 90.0 %

The Frequency Hopping Radar pattern shown in Annex B.2

**A D T****802.11n HT40****Type 1 Radar Statistical Performances**

Trial #	Pulses per Burst	Pulse Width (s)	PRI (s)	Detection
1	18	1.0u	1.428m	Yes
2	18	1.0u	1.428m	Yes
3	18	1.0u	1.428m	Yes
4	18	1.0u	1.428m	Yes
5	18	1.0u	1.428m	Yes
6	18	1.0u	1.428m	Yes
7	18	1.0u	1.428m	Yes
8	18	1.0u	1.428m	Yes
9	18	1.0u	1.428m	Yes
10	18	1.0u	1.428m	Yes
11	18	1.0u	1.428m	Yes
12	18	1.0u	1.428m	Yes
13	18	1.0u	1.428m	Yes
14	18	1.0u	1.428m	Yes
15	18	1.0u	1.428m	Yes
16	18	1.0u	1.428m	Yes
17	18	1.0u	1.428m	Yes
18	18	1.0u	1.428m	Yes
19	18	1.0u	1.428m	Yes
20	18	1.0u	1.428m	Yes
21	18	1.0u	1.428m	Yes
22	18	1.0u	1.428m	Yes
23	18	1.0u	1.428m	Yes
24	18	1.0u	1.428m	Yes
25	18	1.0u	1.428m	No
26	18	1.0u	1.428m	Yes
27	18	1.0u	1.428m	Yes
28	18	1.0u	1.428m	Yes
29	18	1.0u	1.428m	Yes
30	18	1.0u	1.428m	Yes

Detection Rate: 96.7 %

**A D T****802.11n HT40**

Type 2 Radar Statistical Performances				
Trial #	Pulses per Burst	Pulse Width (s)	PRI (s)	Detection
1	24	3.2u	179.0u	Yes
2	24	3.4u	220.0u	Yes
3	28	1.3u	228.0u	Yes
4	28	4.9u	191.0u	Yes
5	24	1.6u	230.0u	Yes
6	26	4.2u	191.0u	Yes
7	24	4.4u	187.0u	Yes
8	26	4.3u	184.0u	Yes
9	29	1.9u	151.0u	Yes
10	24	4.9u	184.0u	Yes
11	25	2.5u	156.0u	Yes
12	29	4.3u	167.0u	Yes
13	28	3.7u	195.0u	Yes
14	23	3.8u	156.0u	Yes
15	24	1.6u	199.0u	No
16	27	2.6u	194.0u	Yes
17	23	1.8u	170.0u	Yes
18	28	2.0u	162.0u	Yes
19	24	4.9u	220.0u	Yes
20	23	3.1u	198.0u	Yes
21	27	1.7u	192.0u	Yes
22	24	1.0u	209.0u	Yes
23	29	3.0u	170.0u	Yes
24	29	2.8u	177.0u	Yes
25	24	3.9u	176.0u	Yes
26	23	4.8u	164.0u	Yes
27	23	3.5u	229.0u	No
28	24	2.2u	182.0u	Yes
29	25	3.1u	199.0u	Yes
30	29	3.1u	191.0u	Yes
Detection Rate: 93.3 %				

**A D T****802.11n HT40**

Type 3 Radar Statistical Performances				
Trial #	Pulses per Burst	Pulse Width (s)	PRI (s)	Detection
1	18	8.3u	423.0u	Yes
2	18	8.2u	396.0u	Yes
3	17	8.0u	390.0u	No
4	17	9.0u	395.0u	Yes
5	17	6.4u	252.0u	Yes
6	18	6.9u	309.0u	Yes
7	17	6.6u	360.0u	No
8	17	9.6u	496.0u	Yes
9	16	8.3u	292.0u	No
10	18	10.0u	263.0u	Yes
11	17	9.1u	430.0u	Yes
12	17	7.1u	373.0u	Yes
13	18	6.8u	281.0u	Yes
14	17	7.9u	378.0u	Yes
15	17	7.6u	435.0u	Yes
16	16	9.3u	206.0u	Yes
17	16	9.7u	476.0u	Yes
18	17	8.0u	340.0u	Yes
19	17	9.5u	414.0u	Yes
20	18	6.3u	203.0u	Yes
21	18	7.1u	487.0u	Yes
22	18	7.3u	355.0u	Yes
23	17	9.1u	489.0u	Yes
24	18	9.0u	293.0u	Yes
25	16	7.0u	426.0u	Yes
26	18	8.0u	360.0u	Yes
27	18	8.5u	470.0u	Yes
28	17	8.2u	416.0u	Yes
29	18	8.5u	422.0u	Yes
30	18	7.8u	349.0u	Yes
Detection Rate: 90.0 %				

**A D T****802.11n HT40**

Type 4 Radar Statistical Performances				
Trial #	Pulses per Burst	Pulse Width (s)	PRI (s)	Detection
1	13	18.3u	433.0u	Yes
2	15	18.1u	293.0u	Yes
3	14	18.9u	377.0u	Yes
4	12	14.4u	317.0u	Yes
5	14	15.7u	470.0u	Yes
6	14	16.0u	235.0u	Yes
7	12	11.5u	287.0u	Yes
8	16	17.7u	338.0u	Yes
9	15	14.9u	494.0u	No
10	14	14.6u	307.0u	Yes
11	13	18.4u	312.0u	Yes
12	15	15.9u	219.0u	Yes
13	14	14.6u	460.0u	Yes
14	13	13.7u	494.0u	Yes
15	13	19.3u	338.0u	Yes
16	13	14.8u	319.0u	Yes
17	14	15.3u	356.0u	Yes
18	13	11.2u	454.0u	Yes
19	16	17.9u	431.0u	Yes
20	14	14.0u	292.0u	Yes
21	13	12.1u	438.0u	Yes
22	14	13.8u	336.0u	Yes
23	13	16.4u	369.0u	No
24	14	17.8u	406.0u	Yes
25	13	18.0u	217.0u	Yes
26	12	12.2u	281.0u	Yes
27	14	14.7u	394.0u	No
28	12	17.1u	206.0u	Yes
29	13	12.5u	405.0u	Yes
30	12	17.4u	317.0u	Yes
Detection Rate: 90.0 %				

**A D T****802.11n HT40****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	Yes
7	LP_Signal_07	Yes
8	LP_Signal_08	No
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	No
20	LP_Signal_20	No
21	LP_Signal_21	Yes
22	LP_Signal_22	Yes
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: 90.0 %

The Long Pulse Radar pattern shown in Annex B.1

**A D T****802.11n HT40****Type 6 Radar Statistical Performances**

Trial #	Pulses per Burst	Pulse Width (s)	PRI (s)	Detection
1	9	1.0u	333.0u	No
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	No
6	9	1.0u	333.0u	No
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	No
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	No
29	9	1.0u	333.0u	Yes
30	9	1.0u	333.0u	Yes

Detection Rate: 83.3 %

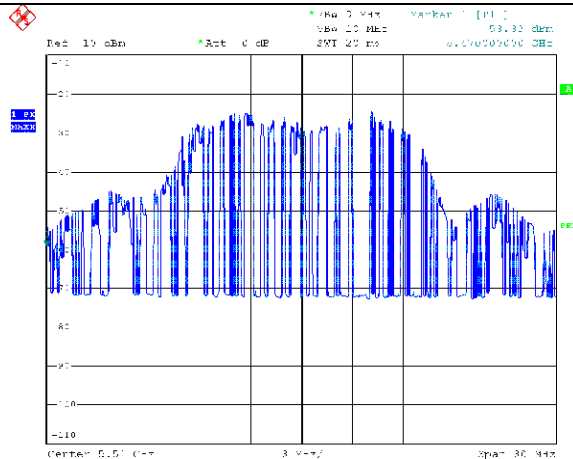
**A D T****802.11n HT40****Type 6 Radar Statistical Performances**

Trial #	Hopping Frequency Sequence Name	Detection
1	HOP_FREQ_SEQ_01	No
2	HOP_FREQ_SEQ_02	Yes
3	HOP_FREQ_SEQ_03	Yes
4	HOP_FREQ_SEQ_04	Yes
5	HOP_FREQ_SEQ_05	No
6	HOP_FREQ_SEQ_06	No
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	No
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	No
29	HOP_FREQ_SEQ_29	Yes
30	HOP_FREQ_SEQ_30	Yes
		Detection Rate: 83.3 %

The Frequency Hopping Radar pattern shown in Annex B.2

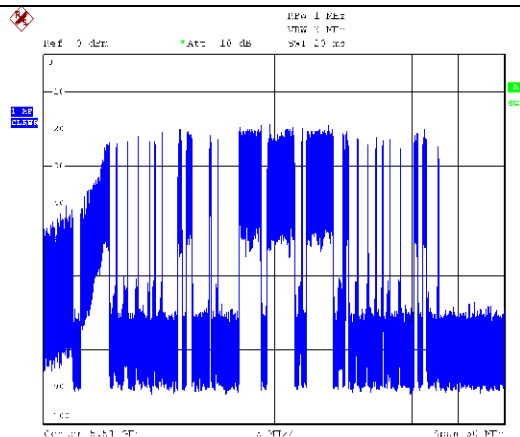
6.2.1.4 NON- OCCUPANCY PERIOD

1) Test results demonstrating an associated client link is established with the master on a test frequency.



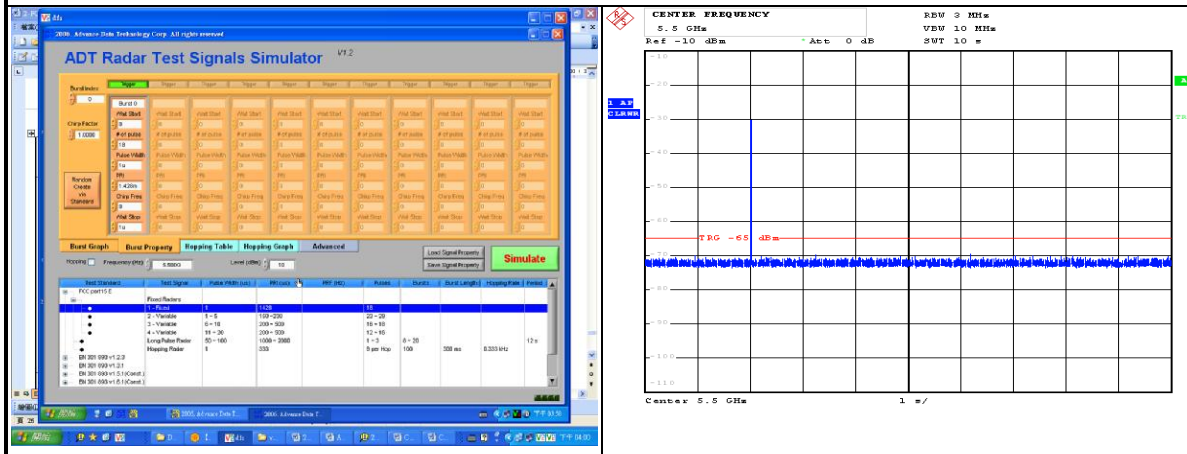
EUT (master) links with Client on 5510MHz

2) The master and DFS-certified client device are associated, and the movie can be streamed as specified in the DFS Order for a non-occupancy period test.



Client plays a specified files via master.

3). The device transmits one type of radar as specified in the DFS Order.



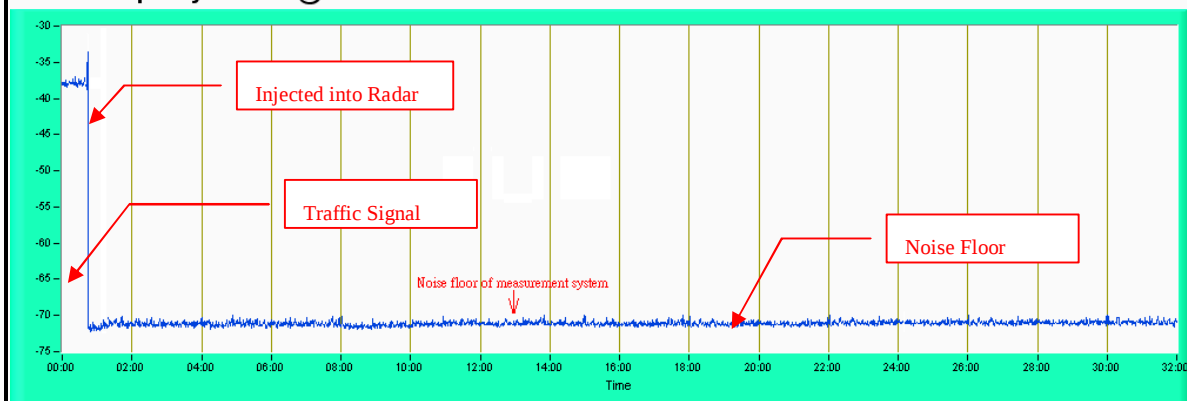
Radar 1 is used to test during DFS testing.

4) The test frequency has been monitored to ensure no transmission of any type has occurred for 30 minutes;

Note: 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;

5)An analyzer plot that contains a single 30-minute sweep on the original test frequency.

Non - Occupancy Period @ CH102 - 5510MHz



6.2.1.5 UNIFORM SPREADING

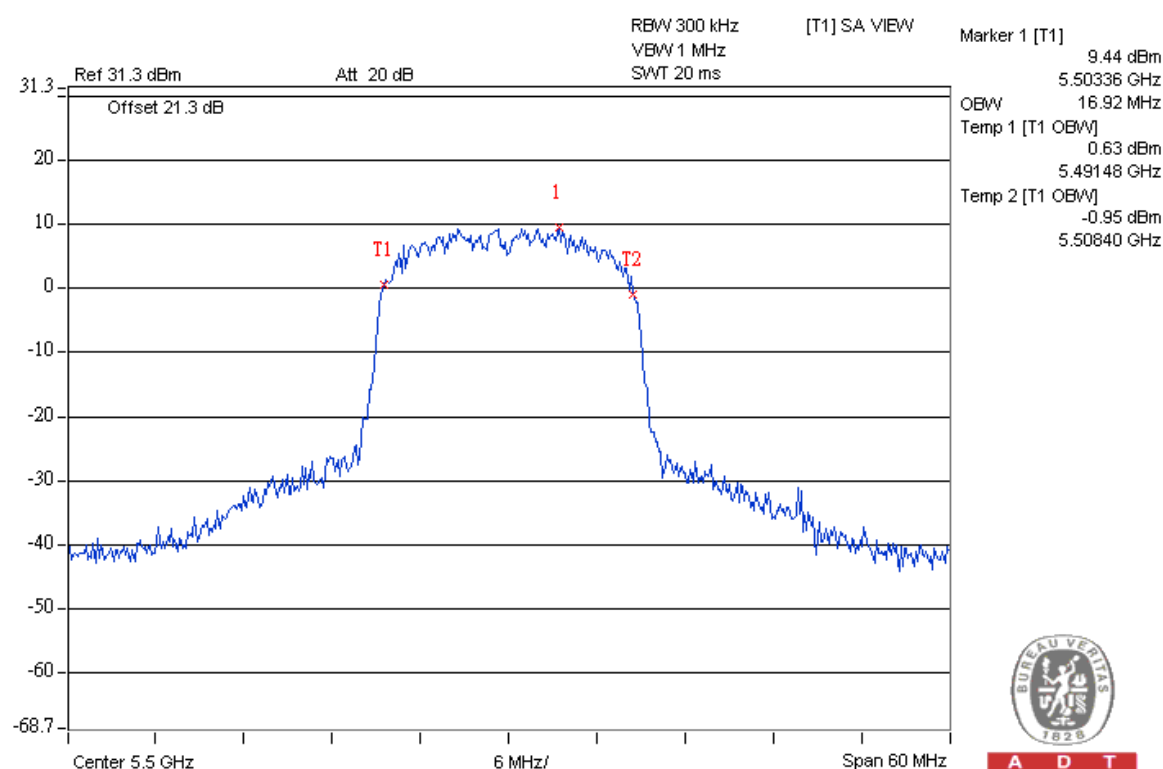
The manufacturer declare:

The intention of the uniform spreading is to provide, on aggregate, a uniform loading of the spectrum. The UUT using the bands 5150 to 5350MHz and 5470 to 5850 MHz shall select an operating channel out of the 21 channels, so that the probability of selecting a given channel shall be the same for all channels.

The UUT will select channel by random mode and remember this channel when detect radar signal, so that will select unused channel by random mode.

6.2.1.6 U-NII DETECTION BANDWIDTH

802.11n HT20



U-NII 99% Channel bandwidth

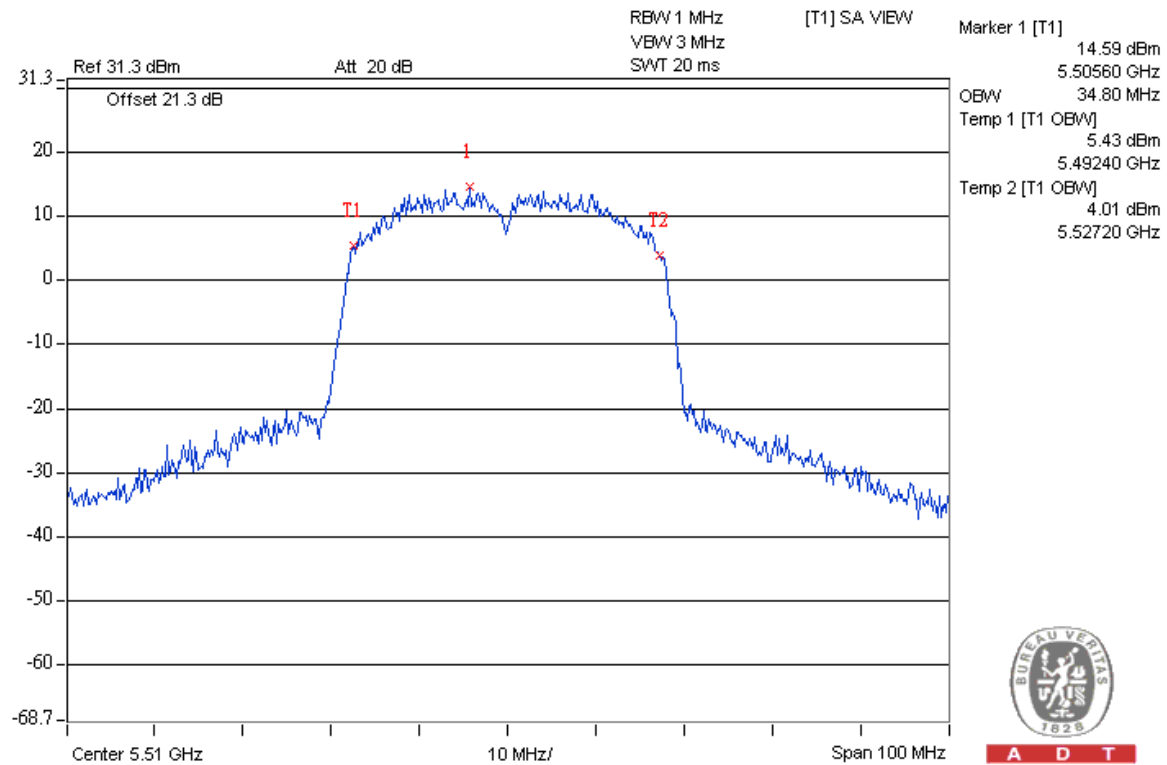
802.11n HT20

Detection Bandwidth Test											
EUT Frequency: 5.500GHz											
EUT 99% Power bandwidth: 16.92MHz											
Detection bandwidth limit (80% of EUT 99% Power bandwidth): 13.53MHz											
Detection Bandwidth (FH - FL): 14.00MHz											
Test Result : PASS											
Radar Frequency (Hz)	Trial Number / Detection										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5.490G	No	No	No	No	No	No	No	No	No	No	0
5.491G	No	No	No	No	No	No	No	No	No	No	0
5.492G	No	No	No	No	Yes	No	No	No	No	No	10
5.493G(FL)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.494G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.495G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.496G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.497G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.498G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.499G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.500G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.501G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.502G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.503G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.504G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.505G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.506G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.507G (FH)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.508G	No	No	Yes	No	No	No	No	No	No	No	10
5.509G	No	No	No	No	No	No	No	No	No	No	0
5.510G	No	No	No	No	No	No	No	No	No	No	0



A D T

802.11n HT40



A D T

U-NII 99% Channel bandwidth



A D T

802.11n HT40

Detection Bandwidth Test											
EUT Frequency: 5.510GHz											
EUT 99% Power bandwidth: 34.8MHz											
Detection bandwidth limit (80% of EUT 99% Power bandwidth): 27.84MHz											
Detection Bandwidth (FH - FL): 30MHz											
Test Result : PASS											
Radar Frequency (Hz)	Trial Number / Detection										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5.490G	No	No	No	No	No	No	No	No	No	No	0
5.491G	No	No	No	No	No	No	No	No	No	No	0
5.492G	No	No	No	No	No	No	No	No	No	No	0
5.493G	No	No	No	No	No	No	No	No	No	No	0
5.494G	No	No	No	No	No	No	No	No	No	No	0
5.495G(FL)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.496G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.497G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.498G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.499G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.500G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.501G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.502G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.503G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.504G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.505G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.506G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.507G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.508G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.509G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.510G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.511G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.512G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.513G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.514G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.515G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.516G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.517G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.518G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.519G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.520G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.521G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.522G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.523G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.524G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.525G (FH)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.526G	No	No	No	No	No	No	No	No	No	No	0
5.527G	No	No	No	No	No	No	No	No	No	No	0
5.528G	No	No	No	No	No	No	No	No	No	No	0
5.529G	No	No	No	No	No	No	No	No	No	No	0
5.530G	No	No	No	No	No	No	No	No	No	No	0

6.2.1.7 NON-CO-CHANNEL TEST

The UUT was investigated after radar was detected the channel and made sure no co-channel operation with radars.

6.2.1.8 TRANSMIT POWER CONTROL (TPC)

Maximum EIRP of this device is 618.016mW which greater than 500mW, therefore it's require TPC function.

The UUT can adjust a transmitter's output power based on the signal level present at the receiver.

TPC is controlled by software and the user may adjust the Transmit Power level from web interface that may adjust the transmit power among Max,-8dB, from web manually when the power needs to be increased or decreased.

The interface is for WLAN purpose that is installed fixedly, so we implement manual TPC instead of automatic TPC on the product.



A D T

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:

Linko EMC/RF Lab:

Tel: 886-2-26052180

Fax: 886-2-26052943

Hsin Chu EMC/RF Lab:

Tel: 886-3-5935343

Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety/Telecom Lab:

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

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



A D T

8 APPENDIX-A

Modifications or adding components during the test

No any modifications are made to the EUT by the lab during the test.

9 APPENDIX-B

RADAR TEST SIGNAL

B.1 The Long Pulse Radar Pattern

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_01						
Number of Bursts in Trial: 9						
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	11M	63.4u	982.6u	-	1.212
2	3	13M	74.6u	1.277m	1.736m	831.4m
3	2	7M	53.8u	1.588m	-	684.3m
4	3	14M	77.3u	1.447m	1.281m	355.5m
5	2	8M	64.8u	1.675m	-	126.5m
6	3	16M	52.0u	1.790m	1.837m	477.1m
7	2	17M	78.8u	1.701m	-	364.4m
8	2	15M	63.6u	1.255m	-	779.9m
9	1	12M	87.1u	-	-	248.7m

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_02						
Number of Bursts in Trial: 14						
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	1	12M	96.1u	-	-	1.983m
2	1	15M	77.1u	-	-	213.6m
3	1	9M	93.9u	-	-	172.2m
4	1	10M	79.2u	-	-	592.9m
5	1	10M	71.7u	-	-	5.434m
6	3	17M	71.5u	1.635m	1.420m	835.6m
7	3	5M	99.8u	1.710m	1.581m	642.2m
8	1	10M	53.5u	-	-	152.7m
9	2	14M	71.0u	1.595m	-	19.52m
10	1	11M	66.5u	-	-	497.5m
11	2	8M	80.9u	1.623m	-	79.75m
12	2	20M	76.5u	951.5u	-	776.3m
13	3	13M	74.4u	1.176m	1.736m	197.1m
14	3	19M	88.7u	1.101m	1.146m	187.3m



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_03

Number of Bursts in Trial: 18

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	10M	70.1u	1.760m	1.111m	443.6m
2	2	19M	54.4u	1.309m	-	614.2m
3	1	15M	87.7u	-	-	53.79m
4	3	16M	88.4u	1.030m	1.608m	629.9m
5	2	11M	80.8u	1.829m	-	186.5m
6	1	8M	62.7u	-	-	241.3m
7	2	8M	64.8u	1.147m	-	208.5m
8	1	10M	51.4u	-	-	654.6m
9	1	14M	66.7u	-	-	551.5m
10	2	9M	68.9u	1.343m	-	313.7m
11	1	15M	73.2u	-	-	57.93m
12	2	9M	61.0u	1.580m	-	296.2m
13	2	13M	66.4u	1.754m	-	582.2m
14	3	18M	68.8u	971.2u	1.735m	140.1m
15	2	19M	75.4u	1.242m	-	269.8m
16	1	20M	50.5u	-	-	238.2m
17	2	16M	65.2u	1.558m	-	258.1m
18	2	12M	88.7u	1.874m	-	123.9m

**Long Pulse Radar Test Signal**

Test Signal Name: LP_Signal_04

Number of Bursts in Trial: 17

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	1	19M	89.5u	-	-	564.1m
2	2	14M	52.4u	1.105m	-	186.2m
3	2	13M	72.7u	1.329m	-	61.09m
4	3	16M	87.0u	1.374m	1.608m	150.7m
5	2	19M	94.6u	1.254m	-	434.0m
6	3	17M	74.2u	1.360m	1.044m	217.2m
7	3	17M	51.8u	1.894m	1.394m	499.4m
8	3	19M	64.6u	1.282m	1.219m	396.9m
9	1	14M	75.1u	-	-	30.33m
10	3	20M	86.9u	1.379m	1.320m	410.5m
11	1	12M	70.8u	-	-	266.2m
12	2	10M	99.6u	981.4u	-	573.1m
13	2	5M	80.1u	1.367m	-	352.3m
14	3	6M	77.4u	933.6u	1.347m	276.1m
15	3	17M	79.7u	1.653m	1.132m	1.800m
16	2	16M	90.5u	1.144m	-	409.6m
17	2	19M	98.2u	1.117m	-	254.5m



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_05

Number of Bursts in Trial: 19

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	1	7M	55.0u	-	-	465.2m
2	3	9M	83.9u	1.147m	1.269m	501.3m
3	2	19M	74.8u	1.496m	-	14.40m
4	2	12M	99.2u	909.8u	-	531.8m
5	2	16M	82.3u	941.7u	-	360.7m
6	2	9M	77.2u	974.8u	-	303.4m
7	2	15M	89.9u	1.031m	-	563.6m
8	2	15M	90.2u	1.762m	-	186.0m
9	2	15M	77.1u	1.887m	-	191.1m
10	3	10M	60.5u	1.120m	1.246m	583.7m
11	1	14M	98.9u	-	-	489.6m
12	1	18M	81.2u	-	-	325.4m
13	3	5M	59.8u	1.182m	1.485m	134.1m
14	1	6M	88.7u	-	-	474.6m
15	2	7M	86.3u	1.347m	-	393.1m
16	3	16M	84.2u	1.894m	1.335m	519.8m
17	2	15M	74.6u	1.148m	-	432.5m
18	2	13M	93.6u	1.355m	-	374.8m
19	2	14M	62.0u	1.281m	-	543.2m



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_06

Number of Bursts in Trial: 20

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	91.4u	1.503m	1.276m	200.7m
2	2	15M	64.9u	1.920m	-	474.9m
3	1	6M	80.9u	-	-	102.6m
4	1	19M	82.3u	-	-	167.7m
5	2	19M	90.8u	1.012m	-	287.9m
6	3	16M	55.9u	1.329m	1.580m	20.34m
7	2	9M	53.6u	1.334m	-	376.6m
8	3	10M	86.3u	1.101m	1.507m	78.03m
9	3	15M	93.9u	992.1u	1.783m	470.3m
10	2	16M	86.9u	1.801m	-	192.1m
11	3	9M	57.3u	959.7u	1.529m	67.00m
12	2	12M	81.3u	1.666m	-	505.7m
13	3	5M	71.0u	1.531m	1.322m	258.6m
14	2	5M	66.8u	1.774m	-	283.3m
15	3	11M	53.7u	1.595m	1.936m	494.1m
16	2	7M	69.3u	1.475m	-	250.6m
17	2	8M	76.8u	1.593m	-	535.7m
18	1	6M	71.9u	-	-	118.9m
19	3	20M	58.8u	1.825m	1.318m	63.01m
20	3	15M	57.6u	1.527m	1.245m	375.4m



Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_07

Number of Bursts in Trial: 19

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	18M	78.8u	928.2u	-	567.9m
2	2	9M	66.0u	1.716m	-	215.8m
3	1	20M	76.5u	-	-	139.2m
4	1	17M	55.2u	-	-	486.3m
5	1	19M	90.4u	-	-	269.3m
6	2	17M	62.1u	1.227m	-	394.9m
7	2	19M	76.0u	1.328m	-	526.8m
8	3	8M	66.9u	1.576m	1.380m	461.1m
9	2	6M	98.2u	1.628m	-	29.44m
10	3	10M	66.3u	1.246m	1.682m	162.6m
11	2	19M	81.1u	1.273m	-	568.7m
12	1	7M	52.1u	-	-	533.4m
13	1	17M	65.5u	-	-	247.8m
14	2	20M	71.4u	1.530m	-	59.01m
15	2	14M	84.2u	1.781m	-	81.96m
16	2	19M	57.7u	1.639m	-	413.9m
17	2	19M	64.0u	1.416m	-	180.3m
18	2	13M	74.0u	1.577m	-	277.8m
19	1	20M	75.3u	-	-	513.3m

**A D T****Long Pulse Radar Test Signal**

Test Signal Name: LP_Signal_08

Number of Bursts in Trial: 9

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	1	17M	64.5u	-	-	1.207
2	1	19M	58.1u	-	-	42.34m
3	2	14M	61.8u	1.009m	-	496.3m
4	2	16M	85.9u	1.826m	-	1.204
5	3	6M	77.5u	1.535m	1.693m	1.079
6	1	15M	61.0u	-	-	1.092
7	2	13M	63.7u	1.590m	-	201.0m
8	2	11M	74.1u	1.273m	-	285.0m
9	2	7M	87.4u	1.184m	-	55.43m

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_09

Number of Bursts in Trial: 9

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	54.9u	1.908m	-	620.3m
2	1	8M	65.6u	-	-	603.6m
3	2	18M	87.6u	1.641m	-	679.8m
4	2	18M	60.5u	1.105m	-	68.46m
5	2	17M	93.8u	967.2u	-	251.8m
6	1	9M	54.7u	-	-	750.6m
7	2	16M	98.4u	1.542m	-	735.8m
8	2	8M	84.1u	1.133m	-	391.8m
9	2	10M	58.9u	1.022m	-	553.5m



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_10

Number of Bursts in Trial: 18

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	69.0u	1.001m	-	607.2m
2	2	10M	84.2u	1.728m	-	346.2m
3	2	10M	83.9u	1.501m	-	536.9m
4	1	14M	92.8u	-	-	541.0m
5	2	12M	81.4u	1.416m	-	235.2m
6	1	14M	93.9u	-	-	91.83m
7	2	8M	84.2u	1.038m	-	457.6m
8	2	5M	64.5u	1.311m	-	267.7m
9	1	17M	93.5u	-	-	618.1m
10	2	8M	92.7u	1.671m	-	587.2m
11	1	6M	66.2u	-	-	147.9m
12	1	18M	80.1u	-	-	342.6m
13	2	7M	70.0u	1.284m	-	190.2m
14	2	11M	53.6u	1.875m	-	34.22m
15	2	11M	75.7u	1.208m	-	285.0m
16	2	10M	57.4u	1.723m	-	54.45m
17	2	18M	80.9u	1.144m	-	536.6m
18	1	19M	69.6u	-	-	136.4m

**A D T****Long Pulse Radar Test Signal**

Test Signal Name: LP_Signal_11

Number of Bursts in Trial: 16

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	52.5u	1.504m	1.339m	570.2m
2	1	9M	55.7u	-	-	241.1m
3	2	18M	52.7u	1.569m	-	266.4m
4	1	17M	99.1u	-	-	66.57m
5	3	6M	66.7u	1.711m	1.869m	639.7m
6	2	13M	50.5u	1.738m	-	422.8m
7	1	11M	76.7u	-	-	513.0m
8	2	13M	75.4u	1.443m	-	667.4m
9	1	7M	50.0u	-	-	447.5m
10	1	9M	88.9u	-	-	304.7m
11	2	13M	71.9u	1.589m	-	388.9m
12	2	19M	81.8u	935.2u	-	580.9m
13	1	9M	60.8u	-	-	79.13m
14	3	15M	58.7u	1.550m	1.392m	360.8m
15	2	10M	92.4u	1.868m	-	485.8m
16	3	20M	77.1u	1.564m	1.144m	306.4m

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_12

Number of Bursts in Trial: 12

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	10M	83.9u	1.550m	-	2.687m
2	2	11M	69.3u	1.505m	-	480.6m
3	3	18M	88.6u	1.360m	1.425m	442.0m
4	3	17M	93.4u	1.276m	1.151m	673.7m
5	1	6M	88.9u	-	-	491.6m
6	2	5M	81.6u	1.364m	-	195.8m
7	3	13M	83.8u	1.105m	1.096m	837.5m
8	2	13M	53.7u	1.635m	-	274.9m
9	3	8M	95.8u	1.868m	1.815m	869.5m
10	2	19M	85.3u	1.610m	-	709.8m
11	2	16M	75.5u	1.099m	-	441.9m
12	1	13M	99.9u	-	-	317.7m



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_13

Number of Bursts in Trial: 20

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	68.3u	1.253m	-	49.95m
2	3	14M	80.0u	1.256m	1.568m	376.1m
3	2	13M	99.1u	1.625m	-	188.6m
4	3	10M	98.0u	1.729m	917.0u	300.2m
5	3	11M	72.7u	988.3u	1.158m	261.9m
6	2	6M	56.6u	1.077m	-	303.8m
7	3	7M	58.2u	1.454m	1.516m	248.6m
8	3	12M	83.7u	1.212m	1.731m	570.2m
9	2	10M	95.5u	1.393m	-	467.5m
10	2	16M	93.1u	1.716m	-	596.4m
11	1	13M	90.2u	-	-	577.4m
12	3	6M	57.9u	995.1u	1.536m	422.9m
13	2	10M	51.8u	1.159m	-	357.1m
14	2	10M	54.6u	1.827m	-	501.8m
15	2	11M	68.6u	1.697m	-	589.0m
16	3	8M	59.1u	979.9u	1.292m	311.9m
17	2	6M	97.5u	1.321m	-	178.8m
18	2	18M	91.3u	917.7u	-	235.1m
19	2	19M	50.2u	1.287m	-	218.1m
20	2	7M	64.0u	1.374m	-	416.7m



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_14

Number of Bursts in Trial: 18

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	17M	75.1u	1.092m	-	174.2m
2	2	6M	93.0u	1.898m	-	205.2m
3	2	9M	78.8u	1.335m	-	270.7m
4	2	12M	67.6u	1.196m	-	478.6m
5	2	15M	59.4u	1.724m	-	235.2m
6	2	17M	51.5u	1.936m	-	205.9m
7	1	19M	81.0u	-	-	167.7m
8	2	10M	91.1u	1.556m	-	380.8m
9	3	15M	50.4u	1.708m	1.631m	464.0m
10	1	13M	69.4u	-	-	302.6m
11	2	6M	84.1u	1.758m	-	85.05m
12	2	6M	84.3u	1.477m	-	8.525m
13	1	15M	99.1u	-	-	501.8m
14	2	10M	69.3u	1.107m	-	39.86m
15	2	16M	65.2u	1.067m	-	41.33m
16	2	18M	86.5u	1.154m	-	651.1m
17	2	17M	51.9u	1.428m	-	596.5m
18	3	7M	74.0u	1.222m	1.152m	143.5m

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_15

Number of Bursts in Trial: 12

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	20M	76.1u	1.432m	-	948.0m
2	3	17M	82.6u	1.005m	1.522m	203.0m
3	1	15M	84.6u	-	-	933.8m
4	2	18M	96.7u	1.727m	-	724.9m
5	1	11M	82.7u	-	-	985.4m
6	3	14M	51.4u	1.563m	1.808m	414.3m
7	1	18M	55.0u	-	-	651.6m
8	2	16M	79.3u	1.797m	-	353.1m
9	2	5M	80.3u	1.447m	-	534.6m
10	1	17M	80.2u	-	-	421.9m
11	2	11M	96.6u	942.4u	-	10.99m
12	1	5M	66.0u	-	-	109.5m



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_16

Number of Bursts in Trial: 15

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	10M	70.3u	1.537m	-	594.5m
2	2	18M	52.9u	1.717m	-	663.8m
3	3	14M	92.1u	1.742m	1.868m	372.3m
4	2	5M	51.6u	964.4u	-	346.9m
5	2	9M	92.5u	1.441m	-	777.5m
6	1	14M	84.7u	-	-	218.1m
7	2	19M	97.7u	1.050m	-	93.56m
8	2	14M	70.2u	1.197m	-	353.6m
9	1	5M	81.8u	-	-	617.7m
10	1	14M	94.2u	-	-	217.8m
11	1	7M	53.0u	-	-	785.6m
12	2	10M	72.0u	1.326m	-	770.1m
13	1	16M	58.1u	-	-	755.8m
14	2	17M	98.2u	1.751m	-	430.8m
15	2	16M	56.6u	1.683m	-	213.1m



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_17

Number of Bursts in Trial: 20

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	1	16M	99.0u	-	-	446.1m
2	2	7M	93.5u	1.293m	-	387.3m
3	2	18M	85.8u	1.066m	-	459.0m
4	2	18M	56.0u	1.882m	-	231.3m
5	2	20M	68.5u	1.287m	-	194.9m
6	1	8M	61.6u	-	-	78.09m
7	3	12M	75.5u	1.358m	1.746m	452.8m
8	2	19M	92.7u	1.733m	-	299.4m
9	1	16M	80.3u	-	-	578.8m
10	2	12M	55.4u	1.407m	-	434.5m
11	1	11M	78.6u	-	-	162.1m
12	1	12M	77.3u	-	-	51.26m
13	2	16M	68.1u	1.031m	-	282.7m
14	2	13M	91.9u	1.351m	-	395.3m
15	3	19M	56.9u	1.309m	1.553m	231.7m
16	2	8M	64.1u	1.258m	-	157.3m
17	1	7M	62.1u	-	-	371.4m
18	2	17M	85.0u	1.344m	-	402.3m
19	3	14M	89.0u	1.778m	1.522m	510.4m
20	3	10M	77.1u	1.749m	1.794m	449.1m

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_18

Number of Bursts in Trial: 9

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	61.9u	1.390m	1.806m	1.044
2	2	11M	67.7u	1.473m	-	958.6m
3	3	16M	59.1u	1.130m	1.371m	1.071
4	2	9M	82.0u	1.599m	-	541.7m
5	2	14M	60.0u	974.0u	-	1.295
6	2	14M	68.7u	1.211m	-	1.075
7	2	6M	58.2u	952.8u	-	768.2m
8	1	6M	58.1u	-	-	1.235
9	2	18M	96.1u	1.367m	-	665.7m



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_19

Number of Bursts in Trial: 19

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	11M	72.1u	1.374m	-	319.2m
2	3	10M	59.9u	1.769m	1.724m	69.19m
3	2	14M	57.3u	1.719m	-	292.4m
4	2	10M	71.9u	1.173m	-	129.4m
5	1	14M	53.4u	-	-	391.3m
6	1	12M	78.3u	-	-	35.92m
7	3	15M	74.3u	1.552m	1.171m	9.418m
8	1	6M	68.1u	-	-	427.9m
9	1	8M	84.5u	-	-	428.3m
10	3	8M	52.0u	1.401m	1.832m	179.8m
11	1	10M	87.8u	-	-	374.5m
12	2	11M	93.3u	1.286m	-	366.3m
13	3	10M	66.0u	1.394m	947.0u	556.9m
14	1	9M	92.5u	-	-	513.0m
15	2	9M	89.4u	1.894m	-	226.4m
16	1	6M	98.1u	-	-	573.6m
17	3	11M	84.8u	1.610m	1.395m	590.1m
18	2	6M	89.1u	1.113m	-	491.2m
19	2	18M	81.9u	1.787m	-	156.1m



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_20

Number of Bursts in Trial: 20

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	77.4u	1.220m	-	193.6m
2	3	14M	69.9u	1.075m	940.1u	396.4m
3	1	11M	57.6u	-	-	250.5m
4	2	8M	93.1u	1.569m	-	101.5m
5	3	17M	70.2u	1.523m	1.625m	150.2m
6	1	14M	55.6u	-	-	522.3m
7	2	16M	96.1u	983.9u	-	539.1m
8	1	14M	86.7u	-	-	291.1m
9	3	19M	90.0u	1.769m	1.193m	437.5m
10	2	9M	56.1u	1.715m	-	74.83m
11	2	11M	89.3u	959.7u	-	425.1m
12	2	17M	58.9u	1.414m	-	313.3m
13	2	18M	81.9u	1.044m	-	472.8m
14	2	15M	72.2u	1.490m	-	429.5m
15	3	11M	54.9u	1.201m	1.147m	37.46m
16	1	12M	74.3u	-	-	334.2m
17	3	10M	55.2u	958.8u	1.726m	445.3m
18	1	15M	67.6u	-	-	242.2m
19	1	8M	76.0u	-	-	520.5m
20	2	8M	63.0u	1.273m	-	369.0m



A D T

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_21						
Number of Bursts in Trial: 12						
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	55.1u	1.605m	-	54.48m
2	2	15M	88.3u	1.384m	-	124.6m
3	2	13M	56.8u	1.820m	-	116.6m
4	2	20M	78.7u	1.260m	-	715.7m
5	1	11M	94.7u	-	-	722.8m
6	2	10M	89.2u	1.438m	-	687.2m
7	2	18M	50.6u	1.074m	-	218.1m
8	1	6M	83.0u	-	-	409.3m
9	2	16M	80.6u	1.331m	-	512.4m
10	2	6M	72.3u	1.904m	-	686.8m
11	2	7M	96.0u	974.0u	-	924.2m
12	2	18M	71.9u	1.597m	-	554.9m



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_22

Number of Bursts in Trial: 20

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	1	7M	64.2u	-	-	154.1m
2	2	19M	83.2u	933.8u	-	431.2m
3	3	16M	96.3u	1.440m	1.668m	5.340m
4	3	16M	84.5u	939.5u	1.315m	84.24m
5	2	10M	90.4u	1.336m	-	68.48m
6	2	10M	60.5u	1.927m	-	139.8m
7	2	9M	67.4u	1.500m	-	390.3m
8	2	8M	67.2u	1.046m	-	30.64m
9	2	14M	93.1u	1.605m	-	511.3m
10	2	5M	90.1u	975.9u	-	172.5m
11	1	12M	71.4u	-	-	535.5m
12	3	14M	67.7u	1.846m	1.249m	332.5m
13	2	12M	87.9u	1.887m	-	123.5m
14	3	15M	79.7u	1.125m	1.914m	154.5m
15	2	15M	52.4u	1.920m	-	580.5m
16	3	11M	85.6u	1.130m	1.588m	333.7m
17	2	19M	68.0u	1.314m	-	372.0m
18	2	9M	77.5u	1.074m	-	189.2m
19	2	11M	89.7u	1.605m	-	80.75m
20	2	12M	65.8u	1.120m	-	510.7m

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_23

Number of Bursts in Trial: 10

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	7M	56.0u	1.614m	1.517m	431.3m
2	2	9M	52.1u	1.333m	-	542.8m
3	1	14M	53.1u	-	-	817.8m
4	2	11M	74.3u	1.686m	-	969.4m
5	2	9M	99.8u	1.435m	-	236.4m
6	1	16M	50.1u	-	-	351.5m
7	2	6M	63.9u	1.304m	-	1.112
8	2	6M	70.8u	1.419m	-	610.6m
9	2	11M	66.7u	1.695m	-	941.1m
10	1	15M	89.9u	-	-	885.7m



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_24

Number of Bursts in Trial: 12

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	17M	53.9u	1.722m	-	755.5m
2	2	19M	78.8u	1.650m	-	114.8m
3	3	9M	83.7u	1.650m	1.041m	826.5m
4	2	8M	66.8u	1.086m	-	270.8m
5	2	14M	76.6u	1.705m	-	185.9m
6	2	8M	70.0u	1.792m	-	410.8m
7	2	10M	71.7u	1.674m	-	340.9m
8	3	18M	94.8u	1.245m	1.727m	913.9m
9	2	12M	85.5u	1.159m	-	335.0m
10	2	5M	56.3u	962.7u	-	785.1m
11	3	7M	71.1u	1.769m	1.481m	876.1m
12	1	16M	67.1u	-	-	114.3m

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_25

Number of Bursts in Trial: 15

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	19M	86.5u	916.5u	-	608.5m
2	2	7M	57.7u	1.867m	-	456.5m
3	1	8M	59.8u	-	-	565.6m
4	3	10M	53.0u	1.238m	948.0u	470.2m
5	3	9M	81.9u	1.032m	1.204m	635.6m
6	2	8M	63.8u	1.205m	-	550.5m
7	2	17M	71.2u	1.553m	-	91.38m
8	2	14M	57.1u	1.802m	-	680.7m
9	1	8M	95.2u	-	-	120.9m
10	3	9M	81.5u	1.249m	1.430m	330.0m
11	1	15M	90.0u	-	-	447.6m
12	1	15M	54.4u	-	-	375.0m
13	2	19M	94.5u	978.5u	-	302.4m
14	2	11M	63.1u	1.865m	-	503.4m
15	2	17M	76.9u	1.310m	-	28.79m

**A D T****Long Pulse Radar Test Signal**

Test Signal Name: LP_Signal_26

Number of Bursts in Trial: 15

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	11M	90.9u	1.270m	1.712m	112.6m
2	3	16M	85.6u	1.676m	962.4u	392.5m
3	2	19M	97.4u	1.117m	-	223.5m
4	2	7M	73.2u	1.543m	-	356.1m
5	2	16M	68.2u	1.188m	-	221.5m
6	1	11M	69.1u	-	-	118.8m
7	3	19M	52.1u	1.282m	1.012m	561.5m
8	3	18M	95.9u	1.570m	1.272m	106.3m
9	1	18M	56.4u	-	-	552.7m
10	3	7M	68.3u	1.679m	1.360m	363.9m
11	1	19M	94.1u	-	-	136.7m
12	3	15M	73.4u	1.566m	1.135m	260.2m
13	2	12M	54.5u	1.033m	-	517.1m
14	2	18M	83.8u	1.352m	-	22.85m
15	2	16M	88.4u	1.435m	-	574.3m

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_27

Number of Bursts in Trial: 9

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	20M	50.0u	1.601m	-	895.0m
2	2	19M	72.4u	1.675m	-	1.075
3	1	8M	56.9u	-	-	719.1m
4	3	11M	60.0u	1.479m	1.264m	1.078
5	3	9M	98.7u	1.235m	1.875m	805.6m
6	3	14M	74.2u	1.699m	1.670m	795.6m
7	2	16M	66.5u	1.105m	-	1.059
8	2	7M	86.7u	1.516m	-	1.028
9	3	13M	62.0u	1.445m	1.519m	359.2m

**A D T****Long Pulse Radar Test Signal**

Test Signal Name: LP_Signal_28

Number of Bursts in Trial: 8

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	14M	69.8u	1.597m	1.872m	576.3m
2	2	9M	83.5u	1.637m	-	1.124
3	3	9M	60.5u	1.793m	1.073m	704.2m
4	3	13M	96.3u	1.065m	1.140m	883.0m
5	2	12M	80.7u	1.907m	-	159.3m
6	1	6M	95.5u	-	-	67.02m
7	2	17M	93.9u	1.303m	-	866.2m
8	2	13M	80.5u	1.721m	-	1.013

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_29

Number of Bursts in Trial: 18

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	12M	52.9u	1.660m	-	260.4m
2	1	16M	53.7u	-	-	599.4m
3	2	18M	55.4u	1.558m	-	660.7m
4	1	15M	84.4u	-	-	650.9m
5	2	5M	73.0u	1.035m	-	179.2m
6	3	8M	61.8u	1.452m	1.899m	271.9m
7	3	18M	87.5u	1.733m	1.741m	437.7m
8	2	12M	77.2u	1.446m	-	17.77m
9	1	16M	94.0u	-	-	431.8m
10	2	13M	99.1u	1.188m	-	36.61m
11	2	18M	78.1u	1.889m	-	433.1m
12	1	14M	92.4u	-	-	124.3m
13	3	6M	62.2u	1.623m	943.8u	343.2m
14	3	7M	89.7u	1.196m	1.764m	522.0m
15	2	10M	85.7u	1.830m	-	196.1m
16	3	12M	100.0u	1.576m	1.140m	275.5m
17	2	18M	66.4u	1.396m	-	361.5m
18	3	10M	57.4u	1.837m	1.075m	198.6m



Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_30						
Number of Bursts in Trial: 11						
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	9M	65.8u	1.137m	1.850m	531.2m
2	1	16M	51.2u	-	-	236.8m
3	2	7M	71.5u	1.916m	-	1.022
4	2	17M	50.7u	1.915m	-	730.5m
5	2	6M	70.5u	1.028m	-	343.4m
6	3	9M	59.9u	1.193m	1.694m	313.8m
7	2	6M	54.9u	1.888m	-	524.9m
8	1	9M	92.4u	-	-	812.5m
9	2	10M	78.0u	1.355m	-	539.5m
10	2	14M	94.1u	1.574m	-	476.9m
11	3	15M	56.3u	1.505m	971.7u	266.4m



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_01							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.644G	2	5.606G	3	5.613G	4	5.652G
5	5.614G	6	5.587G	7	5.591G	8	5.664G
9	5.449G	10	5.288G	11	5.501G	12	5.327G
13	5.458G	14	5.323G	15	5.315G	16	5.375G
17	5.256G	18	5.662G	19	5.389G	20	5.630G
21	5.477G	22	5.474G	23	5.523G	24	5.420G
25	5.277G	26	5.553G	27	5.427G	28	5.302G
29	5.642G	30	5.251G	31	5.611G	32	5.410G
33	5.439G	34	5.491G	35	5.397G	36	5.295G
37	5.402G	38	5.568G	39	5.536G	40	5.685G
41	5.678G	42	5.326G	43	5.309G	44	5.510G
45	5.486G	46	5.365G	47	5.450G	48	5.285G
49	5.257G	50	5.371G	51	5.668G	52	5.473G
53	5.634G	54	5.658G	55	5.681G	56	5.287G
57	5.711G	58	5.503G	59	5.452G	60	5.496G
61	5.595G	62	5.274G	63	5.325G	64	5.519G
65	5.338G	66	5.412G	67	5.352G	68	5.647G
69	5.705G	70	5.262G	71	5.554G	72	5.341G
73	5.290G	74	5.381G	75	5.625G	76	5.329G
77	5.603G	78	5.317G	79	5.666G	80	5.314G
81	5.476G	82	5.319G	83	5.385G	84	5.561G
85	5.268G	86	5.298G	87	5.672G	88	5.388G
89	5.331G	90	5.350G	91	5.322G	92	5.455G
93	5.631G	94	5.456G	95	5.708G	96	5.548G
97	5.407G	98	5.332G	99	5.471G	100	5.294G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_02							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.515G	2	5.542G	3	5.379G	4	5.647G
5	5.587G	6	5.263G	7	5.469G	8	5.317G
9	5.609G	10	5.385G	11	5.303G	12	5.630G
13	5.606G	14	5.402G	15	5.451G	16	5.510G
17	5.605G	18	5.487G	19	5.582G	20	5.304G
21	5.288G	22	5.636G	23	5.700G	24	5.395G
25	5.624G	26	5.439G	27	5.610G	28	5.571G
29	5.500G	30	5.503G	31	5.559G	32	5.532G
33	5.579G	34	5.631G	35	5.396G	36	5.604G
37	5.583G	38	5.634G	39	5.285G	40	5.294G
41	5.652G	42	5.438G	43	5.589G	44	5.381G
45	5.262G	46	5.709G	47	5.387G	48	5.261G
49	5.615G	50	5.270G	51	5.704G	52	5.554G
53	5.352G	54	5.688G	55	5.295G	56	5.657G
57	5.428G	58	5.300G	59	5.292G	60	5.569G
61	5.324G	62	5.702G	63	5.390G	64	5.564G
65	5.266G	66	5.674G	67	5.680G	68	5.454G
69	5.341G	70	5.373G	71	5.348G	72	5.409G
73	5.432G	74	5.457G	75	5.573G	76	5.715G
77	5.664G	78	5.535G	79	5.653G	80	5.346G
81	5.540G	82	5.599G	83	5.638G	84	5.689G
85	5.544G	86	5.567G	87	5.628G	88	5.685G
89	5.718G	90	5.412G	91	5.449G	92	5.533G
93	5.401G	94	5.371G	95	5.264G	96	5.260G
97	5.530G	98	5.370G	99	5.458G	100	5.531G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_03							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.554G	2	5.487G	3	5.465G	4	5.390G
5	5.471G	6	5.555G	7	5.349G	8	5.341G
9	5.433G	10	5.629G	11	5.339G	12	5.395G
13	5.442G	14	5.266G	15	5.391G	16	5.269G
17	5.301G	18	5.511G	19	5.384G	20	5.637G
21	5.376G	22	5.389G	23	5.531G	24	5.601G
25	5.437G	26	5.696G	27	5.642G	28	5.552G
29	5.481G	30	5.512G	31	5.659G	32	5.595G
33	5.287G	34	5.259G	35	5.271G	36	5.663G
37	5.460G	38	5.316G	39	5.310G	40	5.365G
41	5.523G	42	5.399G	43	5.568G	44	5.565G
45	5.408G	46	5.598G	47	5.600G	48	5.463G
49	5.283G	50	5.567G	51	5.574G	52	5.358G
53	5.650G	54	5.711G	55	5.416G	56	5.291G
57	5.457G	58	5.682G	59	5.353G	60	5.331G
61	5.615G	62	5.692G	63	5.270G	64	5.676G
65	5.551G	66	5.651G	67	5.371G	68	5.397G
69	5.323G	70	5.453G	71	5.559G	72	5.516G
73	5.613G	74	5.355G	75	5.467G	76	5.529G
77	5.661G	78	5.444G	79	5.265G	80	5.667G
81	5.721G	82	5.528G	83	5.627G	84	5.326G
85	5.375G	86	5.401G	87	5.298G	88	5.592G
89	5.541G	90	5.403G	91	5.363G	92	5.616G
93	5.633G	94	5.385G	95	5.643G	96	5.312G
97	5.497G	98	5.434G	99	5.332G	100	5.372G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_04							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.378G	2	5.615G	3	5.335G	4	5.624G
5	5.644G	6	5.371G	7	5.670G	8	5.420G
9	5.461G	10	5.488G	11	5.600G	12	5.534G
13	5.347G	14	5.611G	15	5.275G	16	5.672G
17	5.631G	18	5.279G	19	5.582G	20	5.281G
21	5.302G	22	5.614G	23	5.540G	24	5.379G
25	5.276G	26	5.393G	27	5.294G	28	5.712G
29	5.723G	30	5.586G	31	5.303G	32	5.438G
33	5.563G	34	5.637G	35	5.405G	36	5.520G
37	5.667G	38	5.657G	39	5.418G	40	5.436G
41	5.636G	42	5.352G	43	5.616G	44	5.267G
45	5.687G	46	5.559G	47	5.460G	48	5.499G
49	5.663G	50	5.609G	51	5.295G	52	5.290G
53	5.565G	54	5.260G	55	5.634G	56	5.272G
57	5.304G	58	5.567G	59	5.478G	60	5.388G
61	5.472G	62	5.376G	63	5.601G	64	5.332G
65	5.452G	66	5.669G	67	5.312G	68	5.359G
69	5.480G	70	5.501G	71	5.608G	72	5.363G
73	5.702G	74	5.623G	75	5.626G	76	5.557G
77	5.251G	78	5.553G	79	5.724G	80	5.585G
81	5.423G	82	5.673G	83	5.529G	84	5.296G
85	5.581G	86	5.593G	87	5.689G	88	5.482G
89	5.402G	90	5.377G	91	5.464G	92	5.314G
93	5.430G	94	5.341G	95	5.398G	96	5.630G
97	5.447G	98	5.479G	99	5.612G	100	5.532G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_05							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.331G	2	5.438G	3	5.578G	4	5.610G
5	5.401G	6	5.643G	7	5.339G	8	5.649G
9	5.679G	10	5.464G	11	5.337G	12	5.504G
13	5.461G	14	5.332G	15	5.519G	16	5.648G
17	5.321G	18	5.377G	19	5.287G	20	5.397G
21	5.575G	22	5.328G	23	5.687G	24	5.552G
25	5.592G	26	5.548G	27	5.535G	28	5.301G
29	5.629G	30	5.564G	31	5.686G	32	5.482G
33	5.360G	34	5.476G	35	5.500G	36	5.608G
37	5.650G	38	5.458G	39	5.594G	40	5.251G
41	5.344G	42	5.334G	43	5.451G	44	5.704G
45	5.356G	46	5.405G	47	5.690G	48	5.657G
49	5.695G	50	5.396G	51	5.342G	52	5.265G
53	5.585G	54	5.672G	55	5.580G	56	5.442G
57	5.560G	58	5.435G	59	5.335G	60	5.273G
61	5.710G	62	5.512G	63	5.264G	64	5.538G
65	5.570G	66	5.601G	67	5.618G	68	5.474G
69	5.693G	70	5.325G	71	5.465G	72	5.306G
73	5.347G	74	5.691G	75	5.662G	76	5.409G
77	5.700G	78	5.539G	79	5.348G	80	5.448G
81	5.338G	82	5.268G	83	5.350G	84	5.557G
85	5.681G	86	5.485G	87	5.503G	88	5.518G
89	5.692G	90	5.613G	91	5.270G	92	5.511G
93	5.545G	94	5.297G	95	5.510G	96	5.371G
97	5.667G	98	5.547G	99	5.637G	100	5.524G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_06							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.299G	2	5.662G	3	5.279G	4	5.598G
5	5.537G	6	5.519G	7	5.386G	8	5.670G
9	5.380G	10	5.388G	11	5.651G	12	5.456G
13	5.409G	14	5.330G	15	5.333G	16	5.560G
17	5.700G	18	5.469G	19	5.718G	20	5.410G
21	5.259G	22	5.431G	23	5.339G	24	5.313G
25	5.567G	26	5.483G	27	5.428G	28	5.363G
29	5.680G	30	5.480G	31	5.298G	32	5.701G
33	5.698G	34	5.506G	35	5.317G	36	5.566G
37	5.526G	38	5.510G	39	5.324G	40	5.292G
41	5.498G	42	5.658G	43	5.633G	44	5.638G
45	5.572G	46	5.580G	47	5.357G	48	5.302G
49	5.591G	50	5.520G	51	5.418G	52	5.689G
53	5.281G	54	5.544G	55	5.252G	56	5.322G
57	5.476G	58	5.405G	59	5.479G	60	5.668G
61	5.535G	62	5.641G	63	5.397G	64	5.627G
65	5.375G	66	5.597G	67	5.723G	68	5.678G
69	5.600G	70	5.503G	71	5.590G	72	5.715G
73	5.353G	74	5.509G	75	5.681G	76	5.604G
77	5.554G	78	5.387G	79	5.500G	80	5.533G
81	5.648G	82	5.329G	83	5.512G	84	5.414G
85	5.286G	86	5.461G	87	5.559G	88	5.288G
89	5.295G	90	5.643G	91	5.427G	92	5.639G
93	5.278G	94	5.620G	95	5.684G	96	5.398G
97	5.542G	98	5.577G	99	5.709G	100	5.381G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_07							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.439G	2	5.472G	3	5.348G	4	5.618G
5	5.536G	6	5.525G	7	5.364G	8	5.336G
9	5.350G	10	5.278G	11	5.253G	12	5.266G
13	5.706G	14	5.633G	15	5.524G	16	5.496G
17	5.436G	18	5.631G	19	5.495G	20	5.483G
21	5.434G	22	5.427G	23	5.292G	24	5.347G
25	5.357G	26	5.319G	27	5.693G	28	5.328G
29	5.466G	30	5.658G	31	5.355G	32	5.558G
33	5.648G	34	5.506G	35	5.556G	36	5.683G
37	5.697G	38	5.368G	39	5.378G	40	5.263G
41	5.324G	42	5.402G	43	5.284G	44	5.672G
45	5.316G	46	5.295G	47	5.687G	48	5.304G
49	5.588G	50	5.274G	51	5.600G	52	5.442G
53	5.532G	54	5.623G	55	5.327G	56	5.641G
57	5.363G	58	5.538G	59	5.371G	60	5.509G
61	5.391G	62	5.579G	63	5.460G	64	5.441G
65	5.258G	66	5.611G	67	5.367G	68	5.333G
69	5.251G	70	5.487G	71	5.640G	72	5.691G
73	5.409G	74	5.438G	75	5.392G	76	5.612G
77	5.530G	78	5.652G	79	5.644G	80	5.548G
81	5.280G	82	5.424G	83	5.521G	84	5.594G
85	5.546G	86	5.534G	87	5.685G	88	5.390G
89	5.709G	90	5.275G	91	5.335G	92	5.662G
93	5.320G	94	5.281G	95	5.312G	96	5.676G
97	5.360G	98	5.616G	99	5.568G	100	5.332G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_08							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.550G	2	5.390G	3	5.719G	4	5.646G
5	5.588G	6	5.338G	7	5.596G	8	5.549G
9	5.706G	10	5.628G	11	5.521G	12	5.503G
13	5.383G	14	5.472G	15	5.264G	16	5.631G
17	5.625G	18	5.513G	19	5.558G	20	5.599G
21	5.424G	22	5.315G	23	5.702G	24	5.354G
25	5.324G	26	5.720G	27	5.446G	28	5.284G
29	5.488G	30	5.572G	31	5.613G	32	5.369G
33	5.401G	34	5.590G	35	5.531G	36	5.313G
37	5.373G	38	5.651G	39	5.535G	40	5.504G
41	5.615G	42	5.335G	43	5.381G	44	5.695G
45	5.686G	46	5.317G	47	5.693G	48	5.411G
49	5.667G	50	5.672G	51	5.420G	52	5.544G
53	5.459G	54	5.517G	55	5.700G	56	5.668G
57	5.666G	58	5.376G	59	5.582G	60	5.568G
61	5.458G	62	5.416G	63	5.485G	64	5.536G
65	5.421G	66	5.622G	67	5.724G	68	5.664G
69	5.292G	70	5.694G	71	5.413G	72	5.461G
73	5.692G	74	5.282G	75	5.592G	76	5.635G
77	5.630G	78	5.362G	79	5.548G	80	5.495G
81	5.654G	82	5.542G	83	5.476G	84	5.326G
85	5.518G	86	5.453G	87	5.711G	88	5.448G
89	5.410G	90	5.261G	91	5.368G	92	5.649G
93	5.333G	94	5.345G	95	5.270G	96	5.678G
97	5.340G	98	5.594G	99	5.565G	100	5.291G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_09							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.482G	2	5.469G	3	5.570G	4	5.476G
5	5.716G	6	5.464G	7	5.361G	8	5.551G
9	5.368G	10	5.708G	11	5.592G	12	5.594G
13	5.398G	14	5.683G	15	5.355G	16	5.473G
17	5.326G	18	5.624G	19	5.513G	20	5.393G
21	5.560G	22	5.515G	23	5.339G	24	5.447G
25	5.395G	26	5.385G	27	5.269G	28	5.419G
29	5.640G	30	5.431G	31	5.693G	32	5.455G
33	5.306G	34	5.386G	35	5.510G	36	5.565G
37	5.424G	38	5.631G	39	5.373G	40	5.350G
41	5.294G	42	5.620G	43	5.664G	44	5.540G
45	5.604G	46	5.602G	47	5.275G	48	5.460G
49	5.615G	50	5.541G	51	5.526G	52	5.273G
53	5.636G	54	5.418G	55	5.512G	56	5.650G
57	5.523G	58	5.670G	59	5.383G	60	5.282G
61	5.583G	62	5.619G	63	5.550G	64	5.384G
65	5.659G	66	5.365G	67	5.586G	68	5.528G
69	5.718G	70	5.388G	71	5.711G	72	5.441G
73	5.430G	74	5.676G	75	5.332G	76	5.707G
77	5.446G	78	5.713G	79	5.639G	80	5.584G
81	5.366G	82	5.257G	83	5.525G	84	5.440G
85	5.556G	86	5.607G	87	5.688G	88	5.704G
89	5.414G	90	5.276G	91	5.675G	92	5.256G
93	5.502G	94	5.491G	95	5.348G	96	5.375G
97	5.495G	98	5.390G	99	5.303G	100	5.319G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_10							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.412G	2	5.304G	3	5.530G	4	5.533G
5	5.575G	6	5.560G	7	5.499G	8	5.553G
9	5.651G	10	5.615G	11	5.334G	12	5.500G
13	5.685G	14	5.586G	15	5.406G	16	5.434G
17	5.339G	18	5.644G	19	5.314G	20	5.490G
21	5.525G	22	5.724G	23	5.588G	24	5.562G
25	5.710G	26	5.557G	27	5.723G	28	5.463G
29	5.413G	30	5.443G	31	5.717G	32	5.628G
33	5.457G	34	5.283G	35	5.254G	36	5.714G
37	5.261G	38	5.589G	39	5.252G	40	5.346G
41	5.336G	42	5.716G	43	5.257G	44	5.402G
45	5.559G	46	5.646G	47	5.719G	48	5.693G
49	5.423G	50	5.700G	51	5.601G	52	5.539G
53	5.585G	54	5.473G	55	5.479G	56	5.271G
57	5.265G	58	5.411G	59	5.389G	60	5.498G
61	5.272G	62	5.619G	63	5.424G	64	5.268G
65	5.622G	66	5.527G	67	5.554G	68	5.594G
69	5.603G	70	5.421G	71	5.683G	72	5.355G
73	5.307G	74	5.676G	75	5.616G	76	5.491G
77	5.258G	78	5.581G	79	5.407G	80	5.367G
81	5.250G	82	5.415G	83	5.659G	84	5.548G
85	5.432G	86	5.516G	87	5.460G	88	5.570G
89	5.695G	90	5.362G	91	5.613G	92	5.623G
93	5.366G	94	5.263G	95	5.656G	96	5.377G
97	5.722G	98	5.627G	99	5.453G	100	5.275G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_11							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.642G	2	5.396G	3	5.409G	4	5.265G
5	5.632G	6	5.317G	7	5.387G	8	5.670G
9	5.411G	10	5.597G	11	5.267G	12	5.546G
13	5.560G	14	5.694G	15	5.568G	16	5.415G
17	5.650G	18	5.645G	19	5.268G	20	5.709G
21	5.327G	22	5.695G	23	5.393G	24	5.356G
25	5.256G	26	5.444G	27	5.290G	28	5.515G
29	5.407G	30	5.358G	31	5.395G	32	5.721G
33	5.250G	34	5.410G	35	5.583G	36	5.697G
37	5.682G	38	5.379G	39	5.455G	40	5.578G
41	5.707G	42	5.676G	43	5.329G	44	5.604G
45	5.438G	46	5.287G	47	5.254G	48	5.289G
49	5.281G	50	5.470G	51	5.554G	52	5.599G
53	5.559G	54	5.347G	55	5.484G	56	5.630G
57	5.328G	58	5.563G	59	5.363G	60	5.333G
61	5.408G	62	5.702G	63	5.294G	64	5.664G
65	5.276G	66	5.648G	67	5.338G	68	5.712G
69	5.629G	70	5.549G	71	5.286G	72	5.258G
73	5.660G	74	5.443G	75	5.616G	76	5.691G
77	5.579G	78	5.305G	79	5.466G	80	5.401G
81	5.391G	82	5.669G	83	5.339G	84	5.440G
85	5.550G	86	5.598G	87	5.360G	88	5.362G
89	5.503G	90	5.433G	91	5.459G	92	5.375G
93	5.713G	94	5.679G	95	5.532G	96	5.394G
97	5.412G	98	5.586G	99	5.404G	100	5.639G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_12							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.485G	2	5.667G	3	5.358G	4	5.569G
5	5.612G	6	5.560G	7	5.509G	8	5.716G
9	5.543G	10	5.326G	11	5.450G	12	5.709G
13	5.302G	14	5.523G	15	5.435G	16	5.303G
17	5.378G	18	5.306G	19	5.721G	20	5.657G
21	5.470G	22	5.289G	23	5.407G	24	5.540G
25	5.714G	26	5.333G	27	5.353G	28	5.596G
29	5.562G	30	5.471G	31	5.475G	32	5.718G
33	5.385G	34	5.258G	35	5.381G	36	5.421G
37	5.600G	38	5.400G	39	5.627G	40	5.576G
41	5.628G	42	5.257G	43	5.547G	44	5.553G
45	5.412G	46	5.678G	47	5.423G	48	5.701G
49	5.632G	50	5.719G	51	5.559G	52	5.389G
53	5.516G	54	5.439G	55	5.319G	56	5.371G
57	5.489G	58	5.707G	59	5.643G	60	5.324G
61	5.582G	62	5.360G	63	5.608G	64	5.398G
65	5.646G	66	5.256G	67	5.614G	68	5.606G
69	5.588G	70	5.528G	71	5.654G	72	5.441G
73	5.607G	74	5.537G	75	5.465G	76	5.573G
77	5.297G	78	5.635G	79	5.376G	80	5.655G
81	5.473G	82	5.309G	83	5.300G	84	5.392G
85	5.323G	86	5.272G	87	5.432G	88	5.336G
89	5.357G	90	5.365G	91	5.495G	92	5.344G
93	5.517G	94	5.529G	95	5.416G	96	5.488G
97	5.330G	98	5.425G	99	5.698G	100	5.702G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_13							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.554G	2	5.339G	3	5.473G	4	5.716G
5	5.354G	6	5.420G	7	5.475G	8	5.371G
9	5.293G	10	5.514G	11	5.681G	12	5.694G
13	5.400G	14	5.600G	15	5.485G	16	5.422G
17	5.701G	18	5.430G	19	5.484G	20	5.525G
21	5.335G	22	5.633G	23	5.382G	24	5.334G
25	5.709G	26	5.601G	27	5.405G	28	5.496G
29	5.577G	30	5.642G	31	5.536G	32	5.678G
33	5.640G	34	5.280G	35	5.440G	36	5.486G
37	5.307G	38	5.450G	39	5.361G	40	5.381G
41	5.670G	42	5.444G	43	5.513G	44	5.629G
45	5.671G	46	5.596G	47	5.490G	48	5.713G
49	5.661G	50	5.589G	51	5.380G	52	5.294G
53	5.636G	54	5.660G	55	5.313G	56	5.369G
57	5.673G	58	5.375G	59	5.411G	60	5.394G
61	5.279G	62	5.689G	63	5.386G	64	5.721G
65	5.693G	66	5.291G	67	5.521G	68	5.252G
69	5.613G	70	5.489G	71	5.590G	72	5.635G
73	5.346G	74	5.540G	75	5.612G	76	5.479G
77	5.463G	78	5.568G	79	5.690G	80	5.580G
81	5.618G	82	5.446G	83	5.555G	84	5.338G
85	5.570G	86	5.413G	87	5.309G	88	5.653G
89	5.328G	90	5.719G	91	5.662G	92	5.553G
93	5.620G	94	5.482G	95	5.686G	96	5.616G
97	5.604G	98	5.263G	99	5.650G	100	5.594G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_14							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.323G	2	5.598G	3	5.610G	4	5.326G
5	5.690G	6	5.286G	7	5.349G	8	5.635G
9	5.449G	10	5.297G	11	5.302G	12	5.412G
13	5.464G	14	5.590G	15	5.676G	16	5.593G
17	5.589G	18	5.259G	19	5.705G	20	5.291G
21	5.518G	22	5.641G	23	5.530G	24	5.418G
25	5.715G	26	5.702G	27	5.312G	28	5.613G
29	5.271G	30	5.649G	31	5.495G	32	5.350G
33	5.434G	34	5.441G	35	5.547G	36	5.696G
37	5.383G	38	5.670G	39	5.375G	40	5.275G
41	5.369G	42	5.654G	43	5.565G	44	5.513G
45	5.336G	46	5.473G	47	5.459G	48	5.561G
49	5.652G	50	5.311G	51	5.537G	52	5.656G
53	5.425G	54	5.340G	55	5.477G	56	5.299G
57	5.555G	58	5.722G	59	5.470G	60	5.454G
61	5.519G	62	5.574G	63	5.416G	64	5.345G
65	5.435G	66	5.298G	67	5.611G	68	5.430G
69	5.691G	70	5.503G	71	5.528G	72	5.556G
73	5.422G	74	5.389G	75	5.629G	76	5.606G
77	5.264G	78	5.577G	79	5.544G	80	5.329G
81	5.660G	82	5.285G	83	5.420G	84	5.276G
85	5.623G	86	5.562G	87	5.272G	88	5.253G
89	5.269G	90	5.357G	91	5.668G	92	5.282G
93	5.583G	94	5.559G	95	5.347G	96	5.687G
97	5.487G	98	5.467G	99	5.663G	100	5.472G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_15							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.656G	2	5.610G	3	5.682G	4	5.267G
5	5.632G	6	5.494G	7	5.325G	8	5.706G
9	5.489G	10	5.424G	11	5.272G	12	5.648G
13	5.708G	14	5.373G	15	5.376G	16	5.720G
17	5.490G	18	5.392G	19	5.268G	20	5.363G
21	5.623G	22	5.683G	23	5.669G	24	5.629G
25	5.331G	26	5.497G	27	5.568G	28	5.592G
29	5.349G	30	5.608G	31	5.432G	32	5.606G
33	5.572G	34	5.577G	35	5.564G	36	5.628G
37	5.535G	38	5.478G	39	5.501G	40	5.689G
41	5.356G	42	5.516G	43	5.677G	44	5.634G
45	5.724G	46	5.318G	47	5.470G	48	5.471G
49	5.431G	50	5.457G	51	5.652G	52	5.596G
53	5.583G	54	5.305G	55	5.459G	56	5.281G
57	5.555G	58	5.250G	59	5.460G	60	5.361G
61	5.274G	62	5.716G	63	5.464G	64	5.679G
65	5.456G	66	5.463G	67	5.694G	68	5.389G
69	5.558G	70	5.259G	71	5.509G	72	5.334G
73	5.541G	74	5.260G	75	5.598G	76	5.622G
77	5.263G	78	5.703G	79	5.384G	80	5.680G
81	5.688G	82	5.719G	83	5.391G	84	5.718G
85	5.532G	86	5.654G	87	5.638G	88	5.676G
89	5.257G	90	5.407G	91	5.687G	92	5.288G
93	5.351G	94	5.721G	95	5.297G	96	5.549G
97	5.390G	98	5.520G	99	5.481G	100	5.355G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_16							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.376G	2	5.411G	3	5.420G	4	5.382G
5	5.595G	6	5.641G	7	5.333G	8	5.469G
9	5.718G	10	5.255G	11	5.511G	12	5.421G
13	5.381G	14	5.348G	15	5.572G	16	5.582G
17	5.486G	18	5.672G	19	5.518G	20	5.403G
21	5.373G	22	5.644G	23	5.336G	24	5.642G
25	5.513G	26	5.251G	27	5.337G	28	5.269G
29	5.580G	30	5.499G	31	5.588G	32	5.622G
33	5.361G	34	5.419G	35	5.667G	36	5.664G
37	5.276G	38	5.467G	39	5.324G	40	5.601G
41	5.298G	42	5.264G	43	5.554G	44	5.280G
45	5.510G	46	5.610G	47	5.687G	48	5.540G
49	5.671G	50	5.666G	51	5.709G	52	5.458G
53	5.316G	54	5.380G	55	5.425G	56	5.653G
57	5.536G	58	5.439G	59	5.440G	60	5.282G
61	5.487G	62	5.327G	63	5.717G	64	5.483G
65	5.332G	66	5.466G	67	5.322G	68	5.585G
69	5.402G	70	5.713G	71	5.451G	72	5.533G
73	5.637G	74	5.532G	75	5.385G	76	5.360G
77	5.613G	78	5.538G	79	5.364G	80	5.573G
81	5.627G	82	5.313G	83	5.428G	84	5.543G
85	5.436G	86	5.557G	87	5.609G	88	5.295G
89	5.640G	90	5.591G	91	5.629G	92	5.462G
93	5.553G	94	5.498G	95	5.683G	96	5.619G
97	5.648G	98	5.571G	99	5.686G	100	5.638G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_17							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.505G	2	5.663G	3	5.609G	4	5.332G
5	5.272G	6	5.655G	7	5.639G	8	5.514G
9	5.448G	10	5.343G	11	5.468G	12	5.592G
13	5.577G	14	5.647G	15	5.535G	16	5.268G
17	5.624G	18	5.360G	19	5.701G	20	5.607G
21	5.517G	22	5.503G	23	5.706G	24	5.537G
25	5.676G	26	5.308G	27	5.722G	28	5.474G
29	5.496G	30	5.617G	31	5.416G	32	5.480G
33	5.491G	34	5.584G	35	5.574G	36	5.499G
37	5.585G	38	5.712G	39	5.254G	40	5.409G
41	5.386G	42	5.320G	43	5.501G	44	5.397G
45	5.456G	46	5.363G	47	5.667G	48	5.575G
49	5.290G	50	5.572G	51	5.682G	52	5.553G
53	5.349G	54	5.539G	55	5.666G	56	5.305G
57	5.616G	58	5.672G	59	5.371G	60	5.408G
61	5.623G	62	5.334G	63	5.504G	64	5.433G
65	5.678G	66	5.315G	67	5.326G	68	5.569G
69	5.621G	70	5.311G	71	5.353G	72	5.403G
73	5.567G	74	5.679G	75	5.436G	76	5.370G
77	5.710G	78	5.516G	79	5.372G	80	5.396G
81	5.323G	82	5.698G	83	5.452G	84	5.359G
85	5.637G	86	5.407G	87	5.285G	88	5.294G
89	5.275G	90	5.292G	91	5.458G	92	5.587G
93	5.411G	94	5.306G	95	5.697G	96	5.545G
97	5.358G	98	5.464G	99	5.362G	100	5.604G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_18							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.526G	2	5.603G	3	5.488G	4	5.354G
5	5.306G	6	5.703G	7	5.701G	8	5.491G
9	5.360G	10	5.537G	11	5.375G	12	5.609G
13	5.545G	14	5.303G	15	5.277G	16	5.717G
17	5.386G	18	5.449G	19	5.681G	20	5.564G
21	5.275G	22	5.437G	23	5.400G	24	5.405G
25	5.585G	26	5.392G	27	5.334G	28	5.255G
29	5.459G	30	5.435G	31	5.613G	32	5.331G
33	5.524G	34	5.712G	35	5.608G	36	5.440G
37	5.709G	38	5.396G	39	5.479G	40	5.338G
41	5.558G	42	5.409G	43	5.604G	44	5.458G
45	5.428G	46	5.328G	47	5.265G	48	5.576G
49	5.305G	50	5.308G	51	5.404G	52	5.672G
53	5.393G	54	5.517G	55	5.642G	56	5.504G
57	5.402G	58	5.302G	59	5.582G	60	5.647G
61	5.610G	62	5.589G	63	5.263G	64	5.473G
65	5.552G	66	5.500G	67	5.563G	68	5.679G
69	5.535G	70	5.390G	71	5.676G	72	5.485G
73	5.299G	74	5.287G	75	5.273G	76	5.664G
77	5.515G	78	5.617G	79	5.501G	80	5.293G
81	5.476G	82	5.665G	83	5.381G	84	5.695G
85	5.675G	86	5.694G	87	5.571G	88	5.341G
89	5.462G	90	5.629G	91	5.707G	92	5.519G
93	5.611G	94	5.278G	95	5.522G	96	5.258G
97	5.259G	98	5.316G	99	5.322G	100	5.592G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_19							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.312G	2	5.604G	3	5.533G	4	5.267G
5	5.434G	6	5.379G	7	5.641G	8	5.290G
9	5.478G	10	5.586G	11	5.693G	12	5.404G
13	5.403G	14	5.616G	15	5.344G	16	5.703G
17	5.431G	18	5.347G	19	5.383G	20	5.292G
21	5.619G	22	5.690G	23	5.618G	24	5.473G
25	5.333G	26	5.400G	27	5.567G	28	5.562G
29	5.498G	30	5.490G	31	5.340G	32	5.585G
33	5.514G	34	5.356G	35	5.352G	36	5.362G
37	5.553G	38	5.354G	39	5.668G	40	5.510G
41	5.391G	42	5.623G	43	5.259G	44	5.457G
45	5.392G	46	5.399G	47	5.513G	48	5.371G
49	5.699G	50	5.484G	51	5.556G	52	5.470G
53	5.609G	54	5.504G	55	5.686G	56	5.582G
57	5.416G	58	5.430G	59	5.291G	60	5.658G
61	5.688G	62	5.575G	63	5.319G	64	5.511G
65	5.528G	66	5.525G	67	5.401G	68	5.468G
69	5.324G	70	5.328G	71	5.480G	72	5.464G
73	5.440G	74	5.348G	75	5.601G	76	5.422G
77	5.550G	78	5.302G	79	5.318G	80	5.602G
81	5.417G	82	5.327G	83	5.370G	84	5.269G
85	5.589G	86	5.573G	87	5.460G	88	5.286G
89	5.487G	90	5.313G	91	5.564G	92	5.520G
93	5.713G	94	5.509G	95	5.349G	96	5.529G
97	5.709G	98	5.305G	99	5.516G	100	5.326G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_20							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.421G	2	5.373G	3	5.407G	4	5.565G
5	5.613G	6	5.412G	7	5.617G	8	5.506G
9	5.599G	10	5.583G	11	5.252G	12	5.269G
13	5.317G	14	5.521G	15	5.483G	16	5.606G
17	5.403G	18	5.396G	19	5.712G	20	5.628G
21	5.688G	22	5.320G	23	5.401G	24	5.655G
25	5.301G	26	5.271G	27	5.516G	28	5.698G
29	5.641G	30	5.285G	31	5.338G	32	5.316G
33	5.691G	34	5.609G	35	5.294G	36	5.560G
37	5.310G	38	5.422G	39	5.489G	40	5.652G
41	5.279G	42	5.662G	43	5.399G	44	5.255G
45	5.579G	46	5.562G	47	5.568G	48	5.488G
49	5.430G	50	5.335G	51	5.487G	52	5.308G
53	5.547G	54	5.626G	55	5.558G	56	5.367G
57	5.305G	58	5.485G	59	5.679G	60	5.673G
61	5.588G	62	5.561G	63	5.549G	64	5.325G
65	5.555G	66	5.716G	67	5.333G	68	5.633G
69	5.524G	70	5.515G	71	5.345G	72	5.371G
73	5.434G	74	5.494G	75	5.690G	76	5.518G
77	5.542G	78	5.306G	79	5.321G	80	5.677G
81	5.630G	82	5.625G	83	5.364G	84	5.663G
85	5.624G	86	5.602G	87	5.525G	88	5.395G
89	5.413G	90	5.277G	91	5.393G	92	5.546G
93	5.551G	94	5.498G	95	5.302G	96	5.447G
97	5.484G	98	5.436G	99	5.468G	100	5.595G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_21							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.466G	2	5.650G	3	5.663G	4	5.337G
5	5.681G	6	5.447G	7	5.449G	8	5.634G
9	5.514G	10	5.409G	11	5.440G	12	5.658G
13	5.636G	14	5.529G	15	5.698G	16	5.354G
17	5.651G	18	5.332G	19	5.533G	20	5.496G
21	5.574G	22	5.416G	23	5.573G	24	5.586G
25	5.250G	26	5.283G	27	5.369G	28	5.431G
29	5.302G	30	5.683G	31	5.319G	32	5.605G
33	5.408G	34	5.263G	35	5.344G	36	5.699G
37	5.345G	38	5.500G	39	5.353G	40	5.421G
41	5.407G	42	5.710G	43	5.535G	44	5.256G
45	5.499G	46	5.267G	47	5.309G	48	5.497G
49	5.341G	50	5.525G	51	5.435G	52	5.595G
53	5.624G	54	5.428G	55	5.590G	56	5.376G
57	5.433G	58	5.272G	59	5.591G	60	5.274G
61	5.513G	62	5.314G	63	5.360G	64	5.688G
65	5.290G	66	5.637G	67	5.424G	68	5.482G
69	5.568G	70	5.648G	71	5.671G	72	5.384G
73	5.606G	74	5.473G	75	5.478G	76	5.287G
77	5.410G	78	5.656G	79	5.599G	80	5.406G
81	5.286G	82	5.580G	83	5.559G	84	5.653G
85	5.429G	86	5.669G	87	5.266G	88	5.587G
89	5.453G	90	5.709G	91	5.544G	92	5.457G
93	5.642G	94	5.678G	95	5.674G	96	5.589G
97	5.588G	98	5.545G	99	5.666G	100	5.675G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_22							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.534G	2	5.412G	3	5.286G	4	5.461G
5	5.592G	6	5.615G	7	5.560G	8	5.275G
9	5.380G	10	5.400G	11	5.626G	12	5.596G
13	5.582G	14	5.278G	15	5.659G	16	5.540G
17	5.677G	18	5.477G	19	5.705G	20	5.428G
21	5.702G	22	5.682G	23	5.566G	24	5.312G
25	5.561G	26	5.294G	27	5.374G	28	5.716G
29	5.678G	30	5.494G	31	5.621G	32	5.522G
33	5.264G	34	5.448G	35	5.467G	36	5.701G
37	5.413G	38	5.408G	39	5.665G	40	5.311G
41	5.536G	42	5.346G	43	5.372G	44	5.688G
45	5.502G	46	5.478G	47	5.535G	48	5.496G
49	5.694G	50	5.354G	51	5.452G	52	5.622G
53	5.337G	54	5.585G	55	5.470G	56	5.415G
57	5.340G	58	5.308G	59	5.285G	60	5.634G
61	5.515G	62	5.680G	63	5.572G	64	5.640G
65	5.717G	66	5.295G	67	5.511G	68	5.383G
69	5.396G	70	5.435G	71	5.425G	72	5.319G
73	5.607G	74	5.393G	75	5.484G	76	5.324G
77	5.359G	78	5.696G	79	5.331G	80	5.480G
81	5.595G	82	5.471G	83	5.277G	84	5.559G
85	5.608G	86	5.555G	87	5.410G	88	5.318G
89	5.646G	90	5.584G	91	5.504G	92	5.436G
93	5.314G	94	5.703G	95	5.366G	96	5.644G
97	5.509G	98	5.683G	99	5.417G	100	5.339G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_23							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.326G	2	5.554G	3	5.445G	4	5.388G
5	5.662G	6	5.600G	7	5.649G	8	5.313G
9	5.595G	10	5.481G	11	5.416G	12	5.599G
13	5.401G	14	5.552G	15	5.449G	16	5.321G
17	5.419G	18	5.538G	19	5.338G	20	5.717G
21	5.579G	22	5.324G	23	5.331G	24	5.562G
25	5.664G	26	5.718G	27	5.462G	28	5.409G
29	5.634G	30	5.387G	31	5.681G	32	5.444G
33	5.344G	34	5.603G	35	5.412G	36	5.515G
37	5.573G	38	5.575G	39	5.258G	40	5.460G
41	5.527G	42	5.290G	43	5.688G	44	5.656G
45	5.472G	46	5.304G	47	5.415G	48	5.417G
49	5.255G	50	5.418G	51	5.479G	52	5.422G
53	5.525G	54	5.499G	55	5.488G	56	5.267G
57	5.616G	58	5.639G	59	5.420G	60	5.638G
61	5.559G	62	5.456G	63	5.297G	64	5.336G
65	5.474G	66	5.360G	67	5.454G	68	5.433G
69	5.379G	70	5.642G	71	5.524G	72	5.252G
73	5.621G	74	5.674G	75	5.516G	76	5.350G
77	5.645G	78	5.679G	79	5.580G	80	5.410G
81	5.442G	82	5.486G	83	5.582G	84	5.609G
85	5.269G	86	5.309G	87	5.332G	88	5.380G
89	5.275G	90	5.637G	91	5.539G	92	5.394G
93	5.458G	94	5.578G	95	5.337G	96	5.622G
97	5.251G	98	5.542G	99	5.391G	100	5.623G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_24							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.625G	2	5.694G	3	5.545G	4	5.705G
5	5.580G	6	5.340G	7	5.559G	8	5.313G
9	5.721G	10	5.718G	11	5.301G	12	5.354G
13	5.603G	14	5.527G	15	5.361G	16	5.716G
17	5.584G	18	5.433G	19	5.499G	20	5.321G
21	5.394G	22	5.429G	23	5.352G	24	5.335G
25	5.261G	26	5.374G	27	5.280G	28	5.258G
29	5.414G	30	5.635G	31	5.500G	32	5.269G
33	5.441G	34	5.494G	35	5.710G	36	5.552G
37	5.659G	38	5.459G	39	5.323G	40	5.477G
41	5.723G	42	5.342G	43	5.311G	44	5.438G
45	5.286G	46	5.687G	47	5.677G	48	5.307G
49	5.693G	50	5.568G	51	5.380G	52	5.357G
53	5.712G	54	5.362G	55	5.582G	56	5.686G
57	5.586G	58	5.474G	59	5.596G	60	5.606G
61	5.537G	62	5.522G	63	5.642G	64	5.631G
65	5.556G	66	5.462G	67	5.419G	68	5.369G
69	5.657G	70	5.417G	71	5.547G	72	5.707G
73	5.574G	74	5.425G	75	5.616G	76	5.263G
77	5.251G	78	5.502G	79	5.479G	80	5.684G
81	5.515G	82	5.412G	83	5.293G	84	5.561G
85	5.399G	86	5.314G	87	5.341G	88	5.542G
89	5.632G	90	5.481G	91	5.283G	92	5.447G
93	5.567G	94	5.588G	95	5.578G	96	5.519G
97	5.396G	98	5.407G	99	5.454G	100	5.512G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_25							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.641G	2	5.311G	3	5.354G	4	5.556G
5	5.435G	6	5.483G	7	5.346G	8	5.257G
9	5.540G	10	5.555G	11	5.301G	12	5.405G
13	5.541G	14	5.266G	15	5.520G	16	5.413G
17	5.273G	18	5.467G	19	5.332G	20	5.365G
21	5.367G	22	5.282G	23	5.447G	24	5.422G
25	5.299G	26	5.628G	27	5.337G	28	5.252G
29	5.345G	30	5.704G	31	5.419G	32	5.394G
33	5.522G	34	5.275G	35	5.355G	36	5.646G
37	5.343G	38	5.459G	39	5.481G	40	5.318G
41	5.455G	42	5.674G	43	5.284G	44	5.496G
45	5.283G	46	5.331G	47	5.347G	48	5.603G
49	5.581G	50	5.416G	51	5.351G	52	5.714G
53	5.427G	54	5.378G	55	5.412G	56	5.293G
57	5.617G	58	5.404G	59	5.683G	60	5.539G
61	5.611G	62	5.370G	63	5.504G	64	5.295G
65	5.532G	66	5.458G	67	5.577G	68	5.321G
69	5.401G	70	5.300G	71	5.398G	72	5.657G
73	5.482G	74	5.644G	75	5.688G	76	5.679G
77	5.469G	78	5.610G	79	5.376G	80	5.267G
81	5.517G	82	5.551G	83	5.285G	84	5.528G
85	5.671G	86	5.583G	87	5.702G	88	5.664G
89	5.329G	90	5.660G	91	5.442G	92	5.339G
93	5.387G	94	5.599G	95	5.684G	96	5.718G
97	5.701G	98	5.470G	99	5.716G	100	5.545G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_26							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.585G	2	5.540G	3	5.264G	4	5.523G
5	5.578G	6	5.456G	7	5.516G	8	5.396G
9	5.496G	10	5.390G	11	5.683G	12	5.417G
13	5.322G	14	5.611G	15	5.488G	16	5.308G
17	5.470G	18	5.319G	19	5.706G	20	5.345G
21	5.577G	22	5.689G	23	5.555G	24	5.418G
25	5.530G	26	5.347G	27	5.344G	28	5.563G
29	5.423G	30	5.401G	31	5.403G	32	5.665G
33	5.595G	34	5.522G	35	5.637G	36	5.394G
37	5.556G	38	5.543G	39	5.616G	40	5.583G
41	5.479G	42	5.294G	43	5.550G	44	5.533G
45	5.512G	46	5.335G	47	5.457G	48	5.501G
49	5.594G	50	5.485G	51	5.653G	52	5.565G
53	5.591G	54	5.561G	55	5.692G	56	5.669G
57	5.685G	58	5.291G	59	5.672G	60	5.295G
61	5.663G	62	5.252G	63	5.666G	64	5.639G
65	5.440G	66	5.686G	67	5.338G	68	5.615G
69	5.499G	70	5.539G	71	5.343G	72	5.385G
73	5.695G	74	5.504G	75	5.438G	76	5.408G
77	5.453G	78	5.298G	79	5.531G	80	5.442G
81	5.589G	82	5.386G	83	5.303G	84	5.429G
85	5.599G	86	5.597G	87	5.519G	88	5.635G
89	5.668G	90	5.328G	91	5.571G	92	5.510G
93	5.664G	94	5.560G	95	5.490G	96	5.250G
97	5.392G	98	5.282G	99	5.357G	100	5.460G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_27							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.343G	2	5.685G	3	5.522G	4	5.577G
5	5.558G	6	5.584G	7	5.263G	8	5.478G
9	5.495G	10	5.400G	11	5.567G	12	5.663G
13	5.274G	14	5.374G	15	5.676G	16	5.695G
17	5.258G	18	5.572G	19	5.336G	20	5.389G
21	5.505G	22	5.636G	23	5.309G	24	5.250G
25	5.710G	26	5.483G	27	5.417G	28	5.352G
29	5.429G	30	5.490G	31	5.593G	32	5.291G
33	5.690G	34	5.621G	35	5.442G	36	5.486G
37	5.713G	38	5.470G	39	5.703G	40	5.694G
41	5.267G	42	5.317G	43	5.600G	44	5.361G
45	5.481G	46	5.452G	47	5.475G	48	5.551G
49	5.559G	50	5.455G	51	5.255G	52	5.697G
53	5.719G	54	5.441G	55	5.571G	56	5.325G
57	5.284G	58	5.362G	59	5.306G	60	5.582G
61	5.403G	62	5.597G	63	5.323G	64	5.605G
65	5.393G	66	5.687G	67	5.428G	68	5.615G
69	5.278G	70	5.264G	71	5.359G	72	5.388G
73	5.565G	74	5.589G	75	5.721G	76	5.271G
77	5.383G	78	5.353G	79	5.626G	80	5.402G
81	5.448G	82	5.531G	83	5.543G	84	5.337G
85	5.556G	86	5.645G	87	5.408G	88	5.350G
89	5.319G	90	5.560G	91	5.544G	92	5.326G
93	5.327G	94	5.569G	95	5.351G	96	5.290G
97	5.480G	98	5.604G	99	5.527G	100	5.430G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_28							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.589G	2	5.698G	3	5.259G	4	5.718G
5	5.692G	6	5.506G	7	5.711G	8	5.365G
9	5.335G	10	5.527G	11	5.331G	12	5.639G
13	5.655G	14	5.594G	15	5.552G	16	5.428G
17	5.670G	18	5.669G	19	5.450G	20	5.399G
21	5.462G	22	5.677G	23	5.273G	24	5.582G
25	5.675G	26	5.553G	27	5.674G	28	5.550G
29	5.608G	30	5.632G	31	5.724G	32	5.444G
33	5.438G	34	5.557G	35	5.256G	36	5.437G
37	5.633G	38	5.705G	39	5.384G	40	5.661G
41	5.446G	42	5.592G	43	5.403G	44	5.498G
45	5.551G	46	5.296G	47	5.696G	48	5.631G
49	5.515G	50	5.358G	51	5.641G	52	5.600G
53	5.372G	54	5.473G	55	5.389G	56	5.489G
57	5.643G	58	5.572G	59	5.361G	60	5.288G
61	5.337G	62	5.320G	63	5.503G	64	5.285G
65	5.665G	66	5.647G	67	5.426G	68	5.667G
69	5.545G	70	5.362G	71	5.424G	72	5.420G
73	5.445G	74	5.636G	75	5.559G	76	5.699G
77	5.360G	78	5.367G	79	5.588G	80	5.448G
81	5.276G	82	5.429G	83	5.412G	84	5.634G
85	5.590G	86	5.518G	87	5.401G	88	5.642G
89	5.487G	90	5.286G	91	5.717G	92	5.452G
93	5.681G	94	5.266G	95	5.618G	96	5.306G
97	5.271G	98	5.525G	99	5.345G	100	5.704G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_29							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.561G	2	5.633G	3	5.325G	4	5.671G
5	5.426G	6	5.643G	7	5.433G	8	5.617G
9	5.575G	10	5.721G	11	5.288G	12	5.498G
13	5.705G	14	5.347G	15	5.542G	16	5.590G
17	5.692G	18	5.648G	19	5.449G	20	5.571G
21	5.708G	22	5.618G	23	5.640G	24	5.327G
25	5.584G	26	5.399G	27	5.724G	28	5.444G
29	5.357G	30	5.489G	31	5.375G	32	5.654G
33	5.621G	34	5.478G	35	5.647G	36	5.286G
37	5.438G	38	5.656G	39	5.574G	40	5.570G
41	5.324G	42	5.650G	43	5.471G	44	5.465G
45	5.350G	46	5.259G	47	5.481G	48	5.699G
49	5.270G	50	5.667G	51	5.497G	52	5.440G
53	5.553G	54	5.672G	55	5.551G	56	5.530G
57	5.332G	58	5.700G	59	5.342G	60	5.410G
61	5.374G	62	5.689G	63	5.421G	64	5.282G
65	5.293G	66	5.717G	67	5.369G	68	5.277G
69	5.635G	70	5.591G	71	5.505G	72	5.281G
73	5.317G	74	5.469G	75	5.547G	76	5.425G
77	5.641G	78	5.582G	79	5.696G	80	5.670G
81	5.628G	82	5.525G	83	5.434G	84	5.567G
85	5.607G	86	5.362G	87	5.514G	88	5.612G
89	5.568G	90	5.664G	91	5.255G	92	5.632G
93	5.704G	94	5.653G	95	5.468G	96	5.297G
97	5.435G	98	5.388G	99	5.663G	100	5.284G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_30							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.291G	2	5.434G	3	5.520G	4	5.570G
5	5.521G	6	5.563G	7	5.667G	8	5.271G
9	5.540G	10	5.357G	11	5.282G	12	5.280G
13	5.513G	14	5.284G	15	5.301G	16	5.618G
17	5.587G	18	5.277G	19	5.457G	20	5.586G
21	5.575G	22	5.594G	23	5.428G	24	5.488G
25	5.657G	26	5.589G	27	5.666G	28	5.701G
29	5.354G	30	5.687G	31	5.698G	32	5.709G
33	5.459G	34	5.320G	35	5.433G	36	5.373G
37	5.416G	38	5.640G	39	5.634G	40	5.352G
41	5.315G	42	5.617G	43	5.505G	44	5.438G
45	5.643G	46	5.281G	47	5.360G	48	5.574G
49	5.539G	50	5.422G	51	5.326G	52	5.342G
53	5.345G	54	5.663G	55	5.414G	56	5.386G
57	5.695G	58	5.571G	59	5.547G	60	5.337G
61	5.639G	62	5.447G	63	5.630G	64	5.395G
65	5.307G	66	5.361G	67	5.553G	68	5.316G
69	5.515G	70	5.467G	71	5.263G	72	5.371G
73	5.638G	74	5.480G	75	5.413G	76	5.330G
77	5.446G	78	5.533G	79	5.669G	80	5.399G
81	5.298G	82	5.411G	83	5.622G	84	5.283G
85	5.677G	86	5.323G	87	5.319G	88	5.260G
89	5.528G	90	5.344G	91	5.660G	92	5.475G
93	5.292G	94	5.706G	95	5.546G	96	5.604G
97	5.527G	98	5.655G	99	5.299G	100	5.369G



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_01

Number of Bursts in Trial: 11

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	11M	58.1u	1.145m	-	209.3m
2	1	11M	90.6u	-	-	663.7m
3	2	14M	82.5u	1.453m	-	164.3m
4	3	12M	75.5u	1.439m	1.380m	1.001
5	2	9M	55.1u	1.376m	-	687.5m
6	3	20M	63.4u	1.672m	1.252m	735.5m
7	2	7M	54.2u	1.466m	-	679.7m
8	2	5M	72.7u	1.799m	-	517.5m
9	1	12M	72.3u	-	-	23.60m
10	2	13M	53.8u	1.571m	-	103.6m
11	1	14M	51.9u	-	-	544.5m

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_02

Number of Bursts in Trial: 19

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	20M	83.1u	1.556m	-	598.9m
2	2	13M	86.0u	1.758m	-	199.2m
3	3	19M	60.4u	944.6u	1.853m	151.8m
4	2	18M	65.5u	1.665m	-	340.1m
5	2	18M	94.4u	1.538m	-	339.3m
6	3	12M	91.9u	1.167m	1.273m	174.0m
7	2	12M	57.7u	1.054m	-	170.9m
8	2	20M	80.9u	1.184m	-	510.1m
9	2	14M	67.0u	948.0u	-	503.7m
10	2	16M	66.1u	1.728m	-	26.77m
11	3	17M	74.9u	1.688m	1.073m	446.6m
12	2	10M	68.6u	1.563m	-	47.10m
13	2	9M	57.2u	1.634m	-	317.2m
14	1	11M	56.2u	-	-	143.1m
15	2	6M	82.9u	1.719m	-	421.9m
16	2	19M	50.1u	1.028m	-	398.6m
17	2	9M	75.1u	943.9u	-	487.6m
18	2	16M	55.0u	1.783m	-	581.0m
19	1	18M	81.5u	-	-	67.57m

**A D T****Long Pulse Radar Test Signal**

Test Signal Name: LP_Signal_03

Number of Bursts in Trial: 16

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	1	6M	99.4u	-	-	379.1m
2	3	17M	55.1u	1.287m	1.601m	515.0m
3	1	10M	55.4u	-	-	360.2m
4	2	11M	83.0u	1.870m	-	59.08m
5	2	14M	52.0u	1.030m	-	268.1m
6	2	17M	67.0u	1.839m	-	14.01m
7	2	6M	65.7u	1.816m	-	41.47m
8	2	18M	50.6u	1.539m	-	421.0m
9	1	6M	72.5u	-	-	117.9m
10	1	11M	83.7u	-	-	644.8m
11	1	12M	79.2u	-	-	646.3m
12	2	7M	57.1u	1.023m	-	364.5m
13	3	16M	53.1u	1.737m	1.499m	576.9m
14	2	17M	97.1u	1.503m	-	522.1m
15	2	19M	76.5u	1.040m	-	57.88m
16	2	10M	65.5u	1.081m	-	262.4m

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_04

Number of Bursts in Trial: 13

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	1	6M	98.8u	-	-	230.0m
2	3	5M	88.0u	1.578m	1.642m	388.9m
3	2	10M	64.9u	1.598m	-	101.2m
4	2	9M	63.2u	942.8u	-	39.61m
5	2	17M	67.0u	1.809m	-	271.4m
6	2	9M	67.9u	1.868m	-	892.3m
7	2	19M	52.0u	1.715m	-	708.6m
8	3	19M	82.6u	1.885m	1.150m	641.7m
9	2	19M	95.5u	1.560m	-	676.8m
10	2	20M	66.2u	978.8u	-	791.5m
11	1	18M	63.7u	-	-	359.3m
12	3	17M	73.7u	1.242m	1.644m	114.5m
13	2	9M	99.6u	1.852m	-	388.1m



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_05

Number of Bursts in Trial: 13

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	8M	51.1u	1.277m	-	227.8m
2	3	10M	98.8u	1.730m	975.2u	470.5m
3	1	16M	66.9u	-	-	476.8m
4	1	5M	75.6u	-	-	197.3m
5	2	19M	91.9u	1.773m	-	901.6m
6	2	18M	76.1u	1.315m	-	402.8m
7	3	12M	66.7u	1.092m	1.847m	798.6m
8	2	12M	86.7u	1.170m	-	323.1m
9	2	10M	91.5u	1.410m	-	490.9m
10	2	13M	63.0u	1.843m	-	93.98m
11	1	12M	78.2u	-	-	433.7m
12	2	11M	88.1u	1.540m	-	723.4m
13	2	14M	58.4u	1.289m	-	631.7m

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_06

Number of Bursts in Trial: 14

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	20M	94.7u	1.085m	-	574.9m
2	2	14M	51.5u	962.5u	-	285.3m
3	2	8M	55.4u	1.872m	-	589.6m
4	1	14M	71.5u	-	-	448.3m
5	2	14M	51.4u	1.686m	-	268.4m
6	3	16M	86.5u	966.5u	1.801m	783.2m
7	2	17M	72.2u	1.921m	-	124.3m
8	2	17M	75.7u	1.772m	-	477.1m
9	2	6M	71.2u	1.127m	-	111.5m
10	2	11M	81.9u	1.797m	-	19.61m
11	1	14M	94.6u	-	-	803.3m
12	3	18M	77.1u	1.190m	1.694m	398.9m
13	1	18M	94.2u	-	-	666.3m
14	2	11M	69.5u	1.105m	-	545.6m

**A D T****Long Pulse Radar Test Signal**

Test Signal Name: LP_Signal_07

Number of Bursts in Trial: 8

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	57.6u	1.140m	1.738m	288.2m
2	1	11M	94.9u	-	-	852.1m
3	3	8M	83.7u	1.574m	1.175m	889.4m
4	2	19M	65.4u	1.009m	-	918.5m
5	1	14M	84.8u	-	-	1.438
6	2	18M	88.3u	1.388m	-	982.7m
7	2	14M	70.7u	1.713m	-	385.1m
8	1	7M	99.1u	-	-	826.2m

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_08

Number of Bursts in Trial: 16

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	10M	86.3u	1.516m	-	677.5m
2	2	19M	71.6u	1.779m	-	553.5m
3	1	6M	74.3u	-	-	360.3m
4	2	19M	57.3u	1.151m	-	348.6m
5	2	8M	51.8u	1.805m	-	281.4m
6	2	12M	79.7u	1.339m	-	398.5m
7	3	12M	64.6u	1.437m	982.4u	277.8m
8	2	13M	50.2u	1.664m	-	532.5m
9	2	7M	78.4u	1.322m	-	217.3m
10	3	6M	98.1u	965.9u	1.176m	490.1m
11	3	9M	81.2u	1.217m	1.214m	715.0m
12	2	6M	52.5u	1.916m	-	510.9m
13	1	20M	72.6u	-	-	536.3m
14	2	18M	77.6u	1.904m	-	389.4m
15	1	7M	59.7u	-	-	141.3m
16	1	8M	58.2u	-	-	97.46m



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_09

Number of Bursts in Trial: 18

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	67.5u	1.102m	-	81.73m
2	2	13M	62.5u	1.009m	-	24.70m
3	2	14M	84.0u	1.175m	-	61.49m
4	2	17M	56.6u	1.580m	-	623.9m
5	2	15M	96.1u	1.878m	-	528.6m
6	1	11M	99.9u	-	-	195.1m
7	2	11M	85.7u	1.621m	-	294.0m
8	3	19M	63.3u	1.812m	1.445m	585.0m
9	3	10M	89.0u	1.850m	1.348m	5.120m
10	2	17M	78.9u	1.760m	-	624.6m
11	2	17M	52.1u	1.316m	-	97.81m
12	3	5M	91.6u	909.4u	1.551m	175.6m
13	3	16M	63.0u	1.713m	1.317m	42.92m
14	2	7M	78.9u	1.811m	-	584.1m
15	1	9M	77.4u	-	-	606.7m
16	1	10M	62.9u	-	-	156.0u
17	3	14M	70.6u	1.398m	1.724m	31.27m
18	2	6M	64.8u	1.279m	-	494.2m

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_10

Number of Bursts in Trial: 13

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	8M	79.3u	1.402m	-	785.1m
2	3	14M	85.3u	1.092m	1.762m	443.4m
3	2	6M	70.1u	998.9u	-	205.5m
4	3	13M	74.8u	1.233m	1.781m	835.5m
5	1	14M	87.9u	-	-	35.57m
6	2	16M	67.0u	1.845m	-	556.7m
7	2	19M	61.8u	1.773m	-	570.6m
8	1	15M	76.4u	-	-	462.7m
9	2	10M	53.0u	1.655m	-	687.3m
10	1	8M	84.0u	-	-	705.9m
11	2	16M	72.5u	957.5u	-	446.9m
12	2	13M	65.2u	1.502m	-	245.9m
13	2	19M	86.7u	932.3u	-	365.5m



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_11

Number of Bursts in Trial: 10

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	57.2u	1.796m	-	338.4m
2	2	16M	51.5u	1.661m	-	1.080
3	3	16M	82.5u	1.295m	1.087m	757.0m
4	3	13M	85.7u	1.867m	988.3u	907.2m
5	2	15M	84.2u	1.523m	-	280.9m
6	2	7M	81.9u	1.451m	-	675.6m
7	3	10M	96.2u	1.398m	1.015m	412.6m
8	1	18M	89.5u	-	-	852.9m
9	3	11M	88.3u	1.083m	1.631m	816.4m
10	2	8M	96.6u	1.512m	-	321.3m

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_12

Number of Bursts in Trial: 13

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	18M	70.8u	1.743m	-	27.00m
2	3	15M	69.6u	1.516m	1.312m	846.4m
3	2	14M	81.2u	1.350m	-	434.1m
4	2	6M	93.4u	1.817m	-	92.82m
5	2	8M	73.1u	1.340m	-	796.2m
6	1	14M	85.4u	-	-	651.9m
7	2	7M	95.6u	920.4u	-	589.0m
8	2	13M	67.2u	1.788m	-	867.8m
9	1	16M	93.1u	-	-	584.1m
10	1	8M	51.3u	-	-	144.0m
11	2	15M	85.5u	1.124m	-	190.1m
12	2	7M	81.3u	1.392m	-	115.1m
13	2	14M	90.2u	1.550m	-	680.3m

**A D T****Long Pulse Radar Test Signal**

Test Signal Name: LP_Signal_13

Number of Bursts in Trial: 15

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	11M	85.1u	1.599m	1.391m	672.4m
2	3	13M	65.1u	1.061m	1.352m	423.0m
3	2	13M	81.2u	1.074m	-	240.7m
4	2	6M	82.1u	1.904m	-	113.5m
5	2	10M	93.4u	1.519m	-	7.775m
6	2	18M	51.7u	1.282m	-	747.5m
7	2	10M	63.5u	1.460m	-	270.9m
8	3	17M	95.2u	1.451m	1.642m	608.7m
9	2	7M	91.0u	1.037m	-	687.7m
10	3	8M	63.5u	1.228m	1.473m	657.3m
11	2	17M	63.7u	1.310m	-	297.6m
12	2	10M	74.4u	1.081m	-	22.25m
13	1	7M	97.5u	-	-	720.6m
14	3	18M	78.6u	1.623m	1.480m	42.45m
15	2	7M	65.5u	1.685m	-	519.2m

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_14

Number of Bursts in Trial: 12

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	16M	71.8u	1.901m	1.727m	761.4m
2	2	16M	96.2u	1.267m	-	903.8m
3	3	20M	59.5u	1.805m	983.5u	817.8m
4	1	18M	55.9u	-	-	801.4m
5	2	18M	86.4u	986.6u	-	268.8m
6	1	18M	80.3u	-	-	929.4m
7	2	14M	78.3u	1.224m	-	887.4m
8	3	19M	81.6u	1.487m	1.445m	320.3m
9	1	6M	51.4u	-	-	276.9m
10	2	20M	72.8u	1.054m	-	475.1m
11	2	9M	74.4u	1.386m	-	635.5m
12	2	18M	87.7u	1.061m	-	331.9m



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_15

Number of Bursts in Trial: 20

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	15M	67.1u	1.783m	1.606m	472.0m
2	3	13M	62.5u	1.504m	1.108m	436.9m
3	2	9M	75.9u	1.157m	-	551.7m
4	2	15M	63.0u	1.502m	-	596.7m
5	2	9M	50.3u	1.786m	-	430.5m
6	1	18M	87.9u	-	-	7.020m
7	2	16M	56.9u	1.496m	-	119.3m
8	1	6M	96.5u	-	-	250.9m
9	2	19M	79.9u	1.858m	-	353.8m
10	2	7M	87.3u	1.710m	-	336.7m
11	2	14M	52.1u	1.206m	-	24.80m
12	1	9M	66.1u	-	-	85.28m
13	2	6M	58.7u	1.104m	-	474.3m
14	1	9M	70.9u	-	-	514.8m
15	2	7M	98.9u	1.629m	-	576.7m
16	2	6M	93.7u	1.851m	-	229.6m
17	2	18M	93.6u	1.828m	-	258.2m
18	1	14M	60.7u	-	-	236.4m
19	2	19M	57.7u	1.373m	-	175.4m
20	1	10M	68.9u	-	-	517.9m

**A D T****Long Pulse Radar Test Signal**

Test Signal Name: LP_Signal_16

Number of Bursts in Trial: 12

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	9M	68.2u	1.712m	1.608m	603.1m
2	2	18M	91.0u	979.0u	-	636.8m
3	2	12M	95.7u	908.3u	-	56.77m
4	1	17M	66.6u	-	-	555.9m
5	2	14M	94.8u	1.389m	-	963.5m
6	1	13M	77.5u	-	-	162.2m
7	2	6M	89.9u	1.307m	-	594.2m
8	2	7M	75.0u	1.527m	-	6.565m
9	1	10M	86.1u	-	-	903.2m
10	2	10M	61.9u	1.383m	-	292.8m
11	2	11M	62.4u	1.144m	-	127.4m
12	2	14M	96.5u	1.179m	-	475.2m

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_17

Number of Bursts in Trial: 11

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	18M	79.5u	1.536m	1.219m	83.42m
2	2	14M	79.2u	1.031m	-	878.9m
3	2	7M	54.5u	1.115m	-	1.026
4	2	14M	93.9u	1.436m	-	146.2m
5	2	15M	94.8u	1.830m	-	291.7m
6	3	18M	57.7u	955.3u	1.499m	449.3m
7	3	18M	73.1u	1.050m	1.138m	842.5m
8	2	6M	88.4u	1.612m	-	227.3m
9	2	13M	83.8u	999.2u	-	244.5m
10	1	13M	88.7u	-	-	1.043
11	1	18M	63.0u	-	-	403.2m



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_18

Number of Bursts in Trial: 15

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	6M	55.7u	1.774m	-	745.4m
2	2	6M	53.2u	1.192m	-	431.4m
3	2	12M	97.4u	1.893m	-	98.21m
4	2	7M	51.3u	1.236m	-	161.6m
5	1	7M	70.3u	-	-	763.9m
6	2	10M	62.9u	1.711m	-	421.4m
7	2	15M	61.4u	1.340m	-	327.6m
8	2	11M	71.8u	1.523m	-	243.2m
9	1	7M	66.3u	-	-	699.6m
10	1	6M	81.2u	-	-	434.2m
11	1	9M	50.8u	-	-	423.6m
12	3	13M	82.4u	963.6u	1.306m	270.4m
13	3	9M	91.2u	1.151m	975.8u	122.4m
14	2	18M	73.9u	1.062m	-	515.6m
15	3	8M	65.2u	1.208m	1.040m	717.1m

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_19

Number of Bursts in Trial: 12

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	68.2u	1.341m	-	807.7m
2	2	16M	81.3u	1.477m	-	487.0m
3	2	13M	79.1u	1.001m	-	928.8m
4	2	6M	72.4u	1.551m	-	383.1m
5	2	16M	86.1u	1.231m	-	70.84m
6	3	11M	99.5u	1.078m	1.422m	712.9m
7	1	18M	77.3u	-	-	978.2m
8	2	11M	85.9u	1.677m	-	332.0m
9	2	8M	70.1u	1.024m	-	28.71m
10	3	10M	60.9u	1.241m	1.132m	158.6m
11	1	14M	56.9u	-	-	799.2m
12	2	5M	80.2u	1.879m	-	539.5m



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_20

Number of Bursts in Trial: 17

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	9M	68.6u	1.659m	1.895m	132.0m
2	2	18M	86.9u	1.895m	-	257.2m
3	2	20M	64.4u	1.209m	-	412.2m
4	2	12M	92.6u	1.440m	-	367.4m
5	2	8M	73.3u	1.705m	-	363.8m
6	1	5M	87.1u	-	-	58.77m
7	1	16M	59.8u	-	-	469.6m
8	3	6M	62.7u	1.004m	1.454m	45.68m
9	1	6M	96.3u	-	-	512.7m
10	3	11M	94.8u	1.201m	1.457m	619.2m
11	1	19M	64.9u	-	-	320.4m
12	2	14M	51.8u	978.2u	-	134.5m
13	3	10M	86.8u	1.685m	1.851m	145.3m
14	2	17M	85.9u	1.342m	-	482.4m
15	3	11M	76.3u	1.842m	1.273m	310.6m
16	3	16M	81.4u	1.493m	1.798m	491.2m
17	3	11M	89.9u	1.844m	1.472m	82.05m

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_21

Number of Bursts in Trial: 13

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	89.2u	1.743m	-	192.6m
2	2	9M	64.8u	1.179m	-	696.2m
3	2	20M	77.9u	1.874m	-	311.9m
4	3	11M	82.0u	1.631m	1.336m	518.4m
5	3	16M	61.8u	1.278m	1.223m	501.8m
6	3	18M	94.8u	1.287m	1.018m	161.7m
7	2	11M	69.0u	1.600m	-	177.6m
8	1	10M	55.6u	-	-	853.6m
9	1	19M	84.2u	-	-	197.2m
10	2	9M	59.1u	1.741m	-	121.1m
11	1	6M	66.3u	-	-	281.5m
12	2	17M	91.0u	1.838m	-	573.5m
13	1	15M	85.7u	-	-	92.36m

**A D T****Long Pulse Radar Test Signal**

Test Signal Name: LP_Signal_22

Number of Bursts in Trial: 9

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	11M	64.7u	1.157m	-	419.9m
2	2	15M	74.8u	1.530m	-	1.219
3	1	10M	61.2u	-	-	841.8m
4	2	10M	69.4u	1.625m	-	296.0m
5	3	19M	52.1u	1.399m	1.648m	285.8m
6	2	20M	92.7u	1.903m	-	757.9m
7	1	10M	50.1u	-	-	1.090
8	1	18M	76.4u	-	-	1.285
9	3	10M	81.7u	1.787m	1.899m	1.058

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_23

Number of Bursts in Trial: 18

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	18M	85.1u	1.445m	-	533.5m
2	3	17M	54.7u	1.815m	1.196m	572.3m
3	2	12M	93.3u	1.135m	-	355.8m
4	2	14M	58.4u	1.898m	-	391.4m
5	2	17M	85.1u	1.359m	-	487.4m
6	3	5M	79.3u	1.789m	964.7u	262.6m
7	2	8M	78.5u	1.857m	-	576.4m
8	3	14M	53.5u	1.507m	1.259m	349.4m
9	2	5M	66.4u	1.078m	-	420.8m
10	2	11M	84.9u	1.905m	-	64.37m
11	3	7M	99.6u	1.659m	948.4u	421.1m
12	2	10M	63.4u	1.873m	-	309.3m
13	1	6M	81.6u	-	-	249.5m
14	2	16M	98.1u	1.812m	-	169.8m
15	1	11M	68.3u	-	-	295.6m
16	2	12M	79.4u	1.300m	-	1.763m
17	1	8M	54.5u	-	-	120.9m
18	3	13M	98.5u	1.244m	1.291m	116.6m



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_24

Number of Bursts in Trial: 18

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	6M	54.6u	1.872m	-	485.5m
2	1	9M	59.5u	-	-	293.5m
3	1	17M	76.5u	-	-	549.0m
4	3	8M	55.5u	1.576m	1.243m	285.6m
5	2	11M	63.5u	1.615m	-	15.04m
6	1	19M	79.7u	-	-	110.9m
7	2	17M	56.3u	1.226m	-	279.6m
8	2	11M	94.8u	1.162m	-	519.2m
9	3	19M	75.7u	974.3u	1.842m	387.3m
10	1	6M	60.4u	-	-	425.8m
11	2	10M	61.5u	1.582m	-	64.90m
12	2	6M	87.8u	1.189m	-	408.1m
13	1	13M	94.3u	-	-	6.295m
14	2	8M	77.0u	1.607m	-	175.5m
15	2	19M	89.1u	1.744m	-	503.7m
16	3	15M	64.7u	1.731m	1.326m	449.5m
17	1	8M	61.9u	-	-	533.2m
18	2	8M	98.5u	1.478m	-	309.5m

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_25

Number of Bursts in Trial: 11

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	1	9M	69.0u	-	-	516.6m
2	2	17M	94.3u	1.126m	-	340.2m
3	1	5M	90.9u	-	-	393.8m
4	1	10M	58.9u	-	-	169.7m
5	3	7M	86.3u	1.838m	1.456m	861.1m
6	2	13M	86.4u	1.080m	-	565.5m
7	3	17M	51.7u	1.250m	1.825m	691.5m
8	1	16M	51.8u	-	-	788.7m
9	2	13M	53.6u	1.651m	-	540.2m
10	1	7M	68.8u	-	-	298.2m
11	2	19M	85.2u	1.562m	-	394.9m

**A D T****Long Pulse Radar Test Signal**

Test Signal Name: LP_Signal_26

Number of Bursts in Trial: 12

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	17M	60.0u	1.091m	1.697m	594.8m
2	2	19M	66.3u	1.322m	-	6.844m
3	2	6M	52.8u	1.173m	-	122.1m
4	2	11M	73.7u	1.594m	-	200.5m
5	1	15M	85.7u	-	-	400.1m
6	1	13M	93.7u	-	-	798.9m
7	2	12M	67.5u	1.845m	-	770.3m
8	1	11M	82.1u	-	-	107.1m
9	1	19M	88.5u	-	-	168.7m
10	3	7M	72.1u	951.9u	1.302m	13.28m
11	2	16M	60.4u	1.390m	-	701.3m
12	2	9M	68.9u	1.092m	-	488.5m

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_27

Number of Bursts in Trial: 15

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	8M	72.5u	1.025m	-	19.65m
2	2	9M	71.4u	1.197m	-	563.5m
3	1	12M	52.6u	-	-	637.2m
4	3	12M	64.3u	1.142m	1.072m	768.7m
5	1	17M	75.3u	-	-	189.4m
6	1	13M	81.2u	-	-	425.6m
7	1	5M	65.3u	-	-	471.3m
8	2	16M	71.6u	1.202m	-	8.205m
9	2	20M	98.8u	1.462m	-	43.28m
10	1	16M	76.5u	-	-	445.1m
11	2	14M	78.8u	1.522m	-	450.0m
12	2	5M	85.6u	1.802m	-	463.5m
13	2	7M	80.2u	1.354m	-	81.06m
14	2	6M	53.2u	1.903m	-	663.5m
15	1	8M	69.8u	-	-	763.3m

**A D T****Long Pulse Radar Test Signal**

Test Signal Name: LP_Signal_28

Number of Bursts in Trial: 9

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	18M	56.3u	1.736m	-	1.129
2	1	8M	75.4u	-	-	724.0m
3	2	16M	82.1u	1.775m	-	487.2m
4	3	7M	58.8u	1.529m	1.644m	804.6m
5	2	8M	73.3u	1.076m	-	688.1m
6	2	20M	91.0u	1.759m	-	75.25m
7	2	7M	82.4u	1.595m	-	215.1m
8	1	9M	78.8u	-	-	973.5m
9	2	17M	60.3u	1.867m	-	509.3m

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_29

Number of Bursts in Trial: 15

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	18M	94.8u	1.615m	-	648.8m
2	2	10M	73.1u	1.390m	-	375.9m
3	3	11M	79.1u	1.265m	939.9u	192.2m
4	2	17M	94.7u	1.814m	-	353.0m
5	3	16M	57.0u	1.626m	1.609m	211.6m
6	3	18M	51.3u	1.877m	1.639m	493.5m
7	1	8M	98.7u	-	-	329.9m
8	3	10M	70.5u	972.5u	1.092m	718.9m
9	1	20M	67.3u	-	-	194.8m
10	2	9M	77.9u	1.259m	-	40.79m
11	2	8M	50.9u	1.196m	-	441.9m
12	1	6M	63.4u	-	-	229.0m
13	2	9M	65.2u	1.303m	-	11.35m
14	1	14M	78.8u	-	-	690.6m
15	2	7M	61.1u	1.575m	-	648.8m



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_30

Number of Bursts in Trial: 10

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	62.5u	1.691m	-	871.7m
2	2	15M	65.4u	1.923m	-	1.159
3	2	11M	68.3u	1.005m	-	1.046
4	1	20M	84.6u	-	-	645.8m
5	2	11M	63.1u	1.361m	-	728.1m
6	2	11M	66.1u	1.202m	-	9.922m
7	2	18M	67.4u	1.003m	-	20.66m
8	2	10M	60.0u	1.280m	-	643.7m
9	2	7M	70.4u	1.504m	-	132.3m
10	3	6M	64.9u	1.397m	1.400m	29.77m



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_01							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.375G	2	5.350G	3	5.537G	4	5.429G
5	5.588G	6	5.630G	7	5.709G	8	5.607G
9	5.615G	10	5.386G	11	5.395G	12	5.531G
13	5.597G	14	5.300G	15	5.475G	16	5.721G
17	5.297G	18	5.412G	19	5.560G	20	5.674G
21	5.434G	22	5.611G	23	5.397G	24	5.487G
25	5.440G	26	5.645G	27	5.405G	28	5.643G
29	5.540G	30	5.401G	31	5.418G	32	5.298G
33	5.345G	34	5.290G	35	5.632G	36	5.456G
37	5.301G	38	5.578G	39	5.341G	40	5.714G
41	5.668G	42	5.305G	43	5.717G	44	5.317G
45	5.378G	46	5.640G	47	5.332G	48	5.711G
49	5.439G	50	5.454G	51	5.690G	52	5.653G
53	5.564G	54	5.295G	55	5.415G	56	5.263G
57	5.329G	58	5.552G	59	5.589G	60	5.428G
61	5.417G	62	5.385G	63	5.634G	64	5.536G
65	5.593G	66	5.330G	67	5.606G	68	5.265G
69	5.281G	70	5.406G	71	5.636G	72	5.320G
73	5.601G	74	5.525G	75	5.485G	76	5.496G
77	5.369G	78	5.678G	79	5.574G	80	5.699G
81	5.514G	82	5.720G	83	5.679G	84	5.359G
85	5.381G	86	5.374G	87	5.539G	88	5.670G
89	5.464G	90	5.530G	91	5.259G	92	5.448G
93	5.432G	94	5.404G	95	5.571G	96	5.551G
97	5.622G	98	5.503G	99	5.580G	100	5.623G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_02							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.430G	2	5.504G	3	5.460G	4	5.715G
5	5.550G	6	5.445G	7	5.645G	8	5.387G
9	5.297G	10	5.388G	11	5.670G	12	5.526G
13	5.618G	14	5.688G	15	5.523G	16	5.707G
17	5.381G	18	5.431G	19	5.609G	20	5.702G
21	5.710G	22	5.411G	23	5.628G	24	5.438G
25	5.414G	26	5.443G	27	5.623G	28	5.432G
29	5.257G	30	5.499G	31	5.630G	32	5.586G
33	5.266G	34	5.677G	35	5.290G	36	5.552G
37	5.485G	38	5.402G	39	5.650G	40	5.624G
41	5.451G	42	5.488G	43	5.513G	44	5.283G
45	5.433G	46	5.310G	47	5.380G	48	5.556G
49	5.512G	50	5.508G	51	5.269G	52	5.477G
53	5.580G	54	5.489G	55	5.329G	56	5.436G
57	5.683G	58	5.357G	59	5.360G	60	5.263G
61	5.617G	62	5.415G	63	5.275G	64	5.337G
65	5.377G	66	5.425G	67	5.698G	68	5.446G
69	5.549G	70	5.256G	71	5.553G	72	5.519G
73	5.334G	74	5.480G	75	5.394G	76	5.404G
77	5.319G	78	5.475G	79	5.459G	80	5.554G
81	5.711G	82	5.522G	83	5.268G	84	5.718G
85	5.453G	86	5.594G	87	5.482G	88	5.312G
89	5.627G	90	5.306G	91	5.264G	92	5.662G
93	5.463G	94	5.576G	95	5.561G	96	5.392G
97	5.267G	98	5.311G	99	5.547G	100	5.604G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_03							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.422G	2	5.483G	3	5.430G	4	5.441G
5	5.406G	6	5.624G	7	5.553G	8	5.292G
9	5.705G	10	5.334G	11	5.325G	12	5.429G
13	5.540G	14	5.600G	15	5.386G	16	5.515G
17	5.658G	18	5.561G	19	5.267G	20	5.333G
21	5.465G	22	5.470G	23	5.355G	24	5.307G
25	5.661G	26	5.688G	27	5.656G	28	5.535G
29	5.518G	30	5.388G	31	5.693G	32	5.338G
33	5.719G	34	5.274G	35	5.667G	36	5.717G
37	5.530G	38	5.684G	39	5.611G	40	5.512G
41	5.627G	42	5.517G	43	5.678G	44	5.598G
45	5.545G	46	5.573G	47	5.698G	48	5.504G
49	5.718G	50	5.544G	51	5.692G	52	5.391G
53	5.721G	54	5.567G	55	5.374G	56	5.716G
57	5.319G	58	5.642G	59	5.385G	60	5.255G
61	5.264G	62	5.445G	63	5.260G	64	5.566G
65	5.256G	66	5.593G	67	5.579G	68	5.364G
69	5.289G	70	5.612G	71	5.384G	72	5.341G
73	5.383G	74	5.715G	75	5.546G	76	5.250G
77	5.291G	78	5.257G	79	5.331G	80	5.674G
81	5.621G	82	5.452G	83	5.413G	84	5.702G
85	5.711G	86	5.575G	87	5.451G	88	5.637G
89	5.662G	90	5.657G	91	5.378G	92	5.411G
93	5.358G	94	5.426G	95	5.592G	96	5.699G
97	5.610G	98	5.668G	99	5.555G	100	5.332G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_04							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.624G	2	5.432G	3	5.409G	4	5.721G
5	5.685G	6	5.368G	7	5.253G	8	5.450G
9	5.378G	10	5.361G	11	5.330G	12	5.254G
13	5.564G	14	5.252G	15	5.640G	16	5.494G
17	5.439G	18	5.465G	19	5.476G	20	5.382G
21	5.397G	22	5.567G	23	5.578G	24	5.538G
25	5.250G	26	5.591G	27	5.531G	28	5.703G
29	5.699G	30	5.276G	31	5.575G	32	5.400G
33	5.285G	34	5.629G	35	5.308G	36	5.542G
37	5.714G	38	5.296G	39	5.560G	40	5.394G
41	5.387G	42	5.481G	43	5.440G	44	5.429G
45	5.552G	46	5.697G	47	5.724G	48	5.483G
49	5.600G	50	5.668G	51	5.369G	52	5.712G
53	5.696G	54	5.503G	55	5.637G	56	5.445G
57	5.456G	58	5.334G	59	5.665G	60	5.659G
61	5.601G	62	5.541G	63	5.707G	64	5.499G
65	5.583G	66	5.422G	67	5.303G	68	5.356G
69	5.302G	70	5.479G	71	5.620G	72	5.587G
73	5.335G	74	5.550G	75	5.331G	76	5.458G
77	5.618G	78	5.636G	79	5.305G	80	5.520G
81	5.454G	82	5.304G	83	5.348G	84	5.314G
85	5.627G	86	5.510G	87	5.284G	88	5.373G
89	5.594G	90	5.599G	91	5.525G	92	5.532G
93	5.364G	94	5.437G	95	5.319G	96	5.405G
97	5.598G	98	5.266G	99	5.654G	100	5.370G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_05							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.250G	2	5.611G	3	5.718G	4	5.672G
5	5.519G	6	5.566G	7	5.565G	8	5.426G
9	5.678G	10	5.449G	11	5.505G	12	5.608G
13	5.597G	14	5.430G	15	5.564G	16	5.431G
17	5.310G	18	5.283G	19	5.434G	20	5.629G
21	5.690G	22	5.405G	23	5.722G	24	5.582G
25	5.494G	26	5.497G	27	5.347G	28	5.578G
29	5.495G	30	5.270G	31	5.259G	32	5.401G
33	5.393G	34	5.635G	35	5.715G	36	5.575G
37	5.507G	38	5.311G	39	5.542G	40	5.482G
41	5.523G	42	5.386G	43	5.634G	44	5.344G
45	5.277G	46	5.654G	47	5.532G	48	5.636G
49	5.313G	50	5.370G	51	5.374G	52	5.640G
53	5.624G	54	5.559G	55	5.512G	56	5.391G
57	5.341G	58	5.649G	59	5.255G	60	5.657G
61	5.681G	62	5.577G	63	5.613G	64	5.424G
65	5.271G	66	5.335G	67	5.406G	68	5.444G
69	5.536G	70	5.579G	71	5.432G	72	5.315G
73	5.398G	74	5.307G	75	5.489G	76	5.274G
77	5.439G	78	5.358G	79	5.682G	80	5.256G
81	5.440G	82	5.327G	83	5.619G	84	5.616G
85	5.272G	86	5.585G	87	5.568G	88	5.339G
89	5.375G	90	5.661G	91	5.463G	92	5.527G
93	5.502G	94	5.404G	95	5.447G	96	5.670G
97	5.436G	98	5.388G	99	5.366G	100	5.389G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_06							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.290G	2	5.671G	3	5.334G	4	5.490G
5	5.471G	6	5.442G	7	5.461G	8	5.365G
9	5.287G	10	5.604G	11	5.482G	12	5.360G
13	5.642G	14	5.677G	15	5.514G	16	5.353G
17	5.576G	18	5.637G	19	5.617G	20	5.723G
21	5.675G	22	5.311G	23	5.487G	24	5.551G
25	5.250G	26	5.280G	27	5.644G	28	5.615G
29	5.521G	30	5.292G	31	5.393G	32	5.679G
33	5.574G	34	5.607G	35	5.619G	36	5.708G
37	5.668G	38	5.646G	39	5.443G	40	5.697G
41	5.689G	42	5.688G	43	5.251G	44	5.271G
45	5.446G	46	5.337G	47	5.269G	48	5.355G
49	5.426G	50	5.325G	51	5.463G	52	5.445G
53	5.447G	54	5.614G	55	5.400G	56	5.357G
57	5.323G	58	5.350G	59	5.583G	60	5.718G
61	5.684G	62	5.411G	63	5.584G	64	5.716G
65	5.432G	66	5.567G	67	5.453G	68	5.408G
69	5.421G	70	5.282G	71	5.466G	72	5.717G
73	5.441G	74	5.618G	75	5.259G	76	5.603G
77	5.516G	78	5.485G	79	5.258G	80	5.364G
81	5.253G	82	5.279G	83	5.517G	84	5.452G
85	5.685G	86	5.327G	87	5.527G	88	5.611G
89	5.462G	90	5.719G	91	5.257G	92	5.451G
93	5.464G	94	5.303G	95	5.662G	96	5.252G
97	5.621G	98	5.379G	99	5.695G	100	5.440G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_07							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.566G	2	5.590G	3	5.699G	4	5.654G
5	5.423G	6	5.671G	7	5.623G	8	5.466G
9	5.621G	10	5.404G	11	5.367G	12	5.526G
13	5.480G	14	5.292G	15	5.343G	16	5.273G
17	5.640G	18	5.296G	19	5.596G	20	5.339G
21	5.417G	22	5.568G	23	5.585G	24	5.382G
25	5.597G	26	5.524G	27	5.684G	28	5.416G
29	5.589G	30	5.444G	31	5.313G	32	5.253G
33	5.452G	34	5.707G	35	5.539G	36	5.279G
37	5.646G	38	5.459G	39	5.401G	40	5.294G
41	5.357G	42	5.697G	43	5.312G	44	5.675G
45	5.573G	46	5.587G	47	5.254G	48	5.358G
49	5.632G	50	5.530G	51	5.479G	52	5.668G
53	5.322G	54	5.543G	55	5.691G	56	5.460G
57	5.354G	58	5.648G	59	5.355G	60	5.455G
61	5.265G	62	5.482G	63	5.595G	64	5.657G
65	5.344G	66	5.462G	67	5.437G	68	5.614G
69	5.581G	70	5.516G	71	5.506G	72	5.264G
73	5.708G	74	5.394G	75	5.282G	76	5.510G
77	5.696G	78	5.332G	79	5.680G	80	5.703G
81	5.564G	82	5.353G	83	5.660G	84	5.341G
85	5.638G	86	5.287G	87	5.315G	88	5.569G
89	5.392G	90	5.486G	91	5.421G	92	5.398G
93	5.370G	94	5.373G	95	5.650G	96	5.721G
97	5.352G	98	5.299G	99	5.384G	100	5.266G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_08							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.370G	2	5.716G	3	5.450G	4	5.713G
5	5.672G	6	5.516G	7	5.351G	8	5.545G
9	5.526G	10	5.704G	11	5.655G	12	5.362G
13	5.539G	14	5.405G	15	5.547G	16	5.532G
17	5.693G	18	5.338G	19	5.392G	20	5.389G
21	5.388G	22	5.576G	23	5.564G	24	5.514G
25	5.355G	26	5.578G	27	5.317G	28	5.654G
29	5.500G	30	5.479G	31	5.323G	32	5.297G
33	5.324G	34	5.318G	35	5.430G	36	5.546G
37	5.395G	38	5.721G	39	5.463G	40	5.710G
41	5.705G	42	5.490G	43	5.290G	44	5.524G
45	5.606G	46	5.321G	47	5.364G	48	5.435G
49	5.373G	50	5.254G	51	5.311G	52	5.699G
53	5.587G	54	5.431G	55	5.403G	56	5.406G
57	5.382G	58	5.305G	59	5.593G	60	5.459G
61	5.628G	62	5.268G	63	5.697G	64	5.688G
65	5.685G	66	5.691G	67	5.385G	68	5.503G
69	5.683G	70	5.277G	71	5.447G	72	5.334G
73	5.263G	74	5.497G	75	5.402G	76	5.645G
77	5.678G	78	5.433G	79	5.276G	80	5.575G
81	5.279G	82	5.562G	83	5.549G	84	5.614G
85	5.622G	86	5.581G	87	5.411G	88	5.296G
89	5.711G	90	5.722G	91	5.295G	92	5.621G
93	5.292G	94	5.566G	95	5.504G	96	5.718G
97	5.397G	98	5.368G	99	5.425G	100	5.307G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_09							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.449G	2	5.485G	3	5.671G	4	5.666G
5	5.578G	6	5.643G	7	5.287G	8	5.598G
9	5.320G	10	5.570G	11	5.518G	12	5.692G
13	5.486G	14	5.440G	15	5.681G	16	5.346G
17	5.504G	18	5.482G	19	5.694G	20	5.704G
21	5.438G	22	5.543G	23	5.582G	24	5.305G
25	5.723G	26	5.698G	27	5.308G	28	5.527G
29	5.336G	30	5.373G	31	5.670G	32	5.416G
33	5.379G	34	5.488G	35	5.624G	36	5.338G
37	5.585G	38	5.502G	39	5.382G	40	5.524G
41	5.469G	42	5.641G	43	5.633G	44	5.591G
45	5.265G	46	5.597G	47	5.696G	48	5.271G
49	5.278G	50	5.378G	51	5.370G	52	5.625G
53	5.425G	54	5.703G	55	5.408G	56	5.350G
57	5.693G	58	5.540G	59	5.626G	60	5.435G
61	5.384G	62	5.688G	63	5.460G	64	5.722G
65	5.636G	66	5.711G	67	5.429G	68	5.535G
69	5.593G	70	5.567G	71	5.255G	72	5.342G
73	5.615G	74	5.546G	75	5.352G	76	5.622G
77	5.418G	78	5.619G	79	5.296G	80	5.655G
81	5.522G	82	5.385G	83	5.562G	84	5.479G
85	5.490G	86	5.637G	87	5.678G	88	5.422G
89	5.493G	90	5.483G	91	5.611G	92	5.559G
93	5.695G	94	5.714G	95	5.380G	96	5.293G
97	5.580G	98	5.668G	99	5.399G	100	5.383G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_10							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.596G	2	5.256G	3	5.442G	4	5.536G
5	5.405G	6	5.615G	7	5.480G	8	5.707G
9	5.701G	10	5.429G	11	5.597G	12	5.445G
13	5.504G	14	5.614G	15	5.354G	16	5.260G
17	5.449G	18	5.416G	19	5.660G	20	5.472G
21	5.500G	22	5.497G	23	5.339G	24	5.537G
25	5.313G	26	5.576G	27	5.443G	28	5.531G
29	5.607G	30	5.519G	31	5.378G	32	5.301G
33	5.593G	34	5.465G	35	5.268G	36	5.261G
37	5.652G	38	5.494G	39	5.451G	40	5.377G
41	5.365G	42	5.695G	43	5.668G	44	5.606G
45	5.664G	46	5.540G	47	5.306G	48	5.452G
49	5.360G	50	5.394G	51	5.619G	52	5.302G
53	5.356G	54	5.523G	55	5.696G	56	5.283G
57	5.298G	58	5.630G	59	5.399G	60	5.712G
61	5.533G	62	5.317G	63	5.632G	64	5.390G
65	5.485G	66	5.512G	67	5.645G	68	5.279G
69	5.653G	70	5.560G	71	5.572G	72	5.592G
73	5.402G	74	5.380G	75	5.352G	76	5.588G
77	5.372G	78	5.366G	79	5.287G	80	5.342G
81	5.400G	82	5.672G	83	5.639G	84	5.376G
85	5.527G	86	5.609G	87	5.461G	88	5.322G
89	5.698G	90	5.577G	91	5.534G	92	5.617G
93	5.476G	94	5.310G	95	5.435G	96	5.307G
97	5.420G	98	5.677G	99	5.264G	100	5.477G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_11							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.677G	2	5.546G	3	5.363G	4	5.410G
5	5.657G	6	5.505G	7	5.454G	8	5.287G
9	5.448G	10	5.308G	11	5.270G	12	5.352G
13	5.404G	14	5.288G	15	5.396G	16	5.329G
17	5.637G	18	5.615G	19	5.488G	20	5.651G
21	5.522G	22	5.428G	23	5.644G	24	5.366G
25	5.485G	26	5.399G	27	5.444G	28	5.384G
29	5.709G	30	5.369G	31	5.672G	32	5.594G
33	5.693G	34	5.527G	35	5.283G	36	5.456G
37	5.421G	38	5.306G	39	5.513G	40	5.678G
41	5.282G	42	5.392G	43	5.302G	44	5.626G
45	5.452G	46	5.310G	47	5.323G	48	5.474G
49	5.279G	50	5.297G	51	5.584G	52	5.397G
53	5.324G	54	5.342G	55	5.702G	56	5.469G
57	5.331G	58	5.427G	59	5.640G	60	5.660G
61	5.436G	62	5.322G	63	5.684G	64	5.557G
65	5.708G	66	5.692G	67	5.659G	68	5.263G
69	5.367G	70	5.408G	71	5.387G	72	5.405G
73	5.432G	74	5.353G	75	5.276G	76	5.616G
77	5.554G	78	5.446G	79	5.281G	80	5.670G
81	5.252G	82	5.258G	83	5.704G	84	5.443G
85	5.538G	86	5.630G	87	5.273G	88	5.261G
89	5.535G	90	5.305G	91	5.477G	92	5.537G
93	5.580G	94	5.536G	95	5.567G	96	5.268G
97	5.402G	98	5.449G	99	5.391G	100	5.633G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_12							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.692G	2	5.551G	3	5.717G	4	5.480G
5	5.677G	6	5.287G	7	5.611G	8	5.398G
9	5.656G	10	5.385G	11	5.277G	12	5.603G
13	5.615G	14	5.581G	15	5.433G	16	5.576G
17	5.503G	18	5.260G	19	5.327G	20	5.545G
21	5.423G	22	5.485G	23	5.360G	24	5.614G
25	5.292G	26	5.537G	27	5.318G	28	5.350G
29	5.429G	30	5.282G	31	5.403G	32	5.587G
33	5.252G	34	5.687G	35	5.681G	36	5.259G
37	5.332G	38	5.434G	39	5.348G	40	5.265G
41	5.628G	42	5.303G	43	5.697G	44	5.365G
45	5.600G	46	5.560G	47	5.486G	48	5.460G
49	5.544G	50	5.302G	51	5.638G	52	5.408G
53	5.654G	54	5.580G	55	5.719G	56	5.720G
57	5.321G	58	5.499G	59	5.375G	60	5.451G
61	5.667G	62	5.686G	63	5.540G	64	5.696G
65	5.554G	66	5.394G	67	5.662G	68	5.716G
69	5.416G	70	5.272G	71	5.418G	72	5.607G
73	5.702G	74	5.472G	75	5.531G	76	5.558G
77	5.358G	78	5.406G	79	5.564G	80	5.326G
81	5.661G	82	5.694G	83	5.596G	84	5.432G
85	5.639G	86	5.629G	87	5.317G	88	5.363G
89	5.288G	90	5.583G	91	5.396G	92	5.701G
93	5.449G	94	5.315G	95	5.724G	96	5.640G
97	5.471G	98	5.646G	99	5.335G	100	5.414G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_13							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.688G	2	5.349G	3	5.609G	4	5.371G
5	5.589G	6	5.586G	7	5.409G	8	5.360G
9	5.551G	10	5.442G	11	5.657G	12	5.628G
13	5.481G	14	5.253G	15	5.692G	16	5.546G
17	5.672G	18	5.336G	19	5.364G	20	5.344G
21	5.440G	22	5.465G	23	5.645G	24	5.433G
25	5.538G	26	5.640G	27	5.421G	28	5.305G
29	5.295G	30	5.424G	31	5.535G	32	5.324G
33	5.316G	34	5.549G	35	5.261G	36	5.579G
37	5.321G	38	5.444G	39	5.329G	40	5.414G
41	5.694G	42	5.386G	43	5.673G	44	5.455G
45	5.262G	46	5.621G	47	5.713G	48	5.644G
49	5.294G	50	5.663G	51	5.273G	52	5.704G
53	5.485G	54	5.580G	55	5.462G	56	5.633G
57	5.276G	58	5.373G	59	5.398G	60	5.668G
61	5.646G	62	5.370G	63	5.709G	64	5.357G
65	5.541G	66	5.266G	67	5.583G	68	5.356G
69	5.681G	70	5.655G	71	5.578G	72	5.406G
73	5.445G	74	5.504G	75	5.700G	76	5.610G
77	5.304G	78	5.413G	79	5.301G	80	5.269G
81	5.417G	82	5.388G	83	5.447G	84	5.319G
85	5.394G	86	5.662G	87	5.677G	88	5.650G
89	5.454G	90	5.488G	91	5.616G	92	5.683G
93	5.293G	94	5.419G	95	5.315G	96	5.612G
97	5.439G	98	5.620G	99	5.510G	100	5.607G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_14							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.451G	2	5.652G	3	5.629G	4	5.575G
5	5.333G	6	5.608G	7	5.457G	8	5.412G
9	5.489G	10	5.712G	11	5.670G	12	5.322G
13	5.710G	14	5.686G	15	5.467G	16	5.666G
17	5.606G	18	5.471G	19	5.632G	20	5.396G
21	5.306G	22	5.722G	23	5.388G	24	5.264G
25	5.642G	26	5.393G	27	5.311G	28	5.336G
29	5.595G	30	5.588G	31	5.313G	32	5.625G
33	5.381G	34	5.346G	35	5.360G	36	5.603G
37	5.429G	38	5.366G	39	5.571G	40	5.312G
41	5.464G	42	5.605G	43	5.582G	44	5.522G
45	5.265G	46	5.447G	47	5.269G	48	5.455G
49	5.664G	50	5.676G	51	5.615G	52	5.359G
53	5.440G	54	5.651G	55	5.435G	56	5.287G
57	5.345G	58	5.696G	59	5.387G	60	5.680G
61	5.688G	62	5.690G	63	5.589G	64	5.383G
65	5.353G	66	5.573G	67	5.720G	68	5.508G
69	5.463G	70	5.420G	71	5.552G	72	5.636G
73	5.592G	74	5.501G	75	5.609G	76	5.481G
77	5.475G	78	5.494G	79	5.477G	80	5.442G
81	5.576G	82	5.620G	83	5.479G	84	5.268G
85	5.622G	86	5.506G	87	5.257G	88	5.254G
89	5.693G	90	5.669G	91	5.566G	92	5.279G
93	5.280G	94	5.252G	95	5.317G	96	5.290G
97	5.273G	98	5.503G	99	5.318G	100	5.341G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_15							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.290G	2	5.631G	3	5.588G	4	5.635G
5	5.634G	6	5.343G	7	5.509G	8	5.637G
9	5.362G	10	5.608G	11	5.401G	12	5.429G
13	5.652G	14	5.651G	15	5.615G	16	5.577G
17	5.633G	18	5.641G	19	5.602G	20	5.527G
21	5.355G	22	5.286G	23	5.610G	24	5.625G
25	5.710G	26	5.644G	27	5.360G	28	5.305G
29	5.525G	30	5.638G	31	5.629G	32	5.253G
33	5.543G	34	5.327G	35	5.260G	36	5.624G
37	5.425G	38	5.646G	39	5.280G	40	5.622G
41	5.489G	42	5.504G	43	5.645G	44	5.337G
45	5.463G	46	5.308G	47	5.338G	48	5.273G
49	5.552G	50	5.661G	51	5.667G	52	5.419G
53	5.346G	54	5.581G	55	5.388G	56	5.354G
57	5.451G	58	5.668G	59	5.287G	60	5.410G
61	5.689G	62	5.559G	63	5.267G	64	5.514G
65	5.414G	66	5.339G	67	5.402G	68	5.341G
69	5.450G	70	5.535G	71	5.485G	72	5.271G
73	5.518G	74	5.643G	75	5.364G	76	5.385G
77	5.393G	78	5.279G	79	5.686G	80	5.288G
81	5.422G	82	5.533G	83	5.513G	84	5.511G
85	5.467G	86	5.555G	87	5.415G	88	5.503G
89	5.456G	90	5.561G	91	5.717G	92	5.389G
93	5.587G	94	5.632G	95	5.270G	96	5.505G
97	5.673G	98	5.671G	99	5.421G	100	5.424G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_16							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.435G	2	5.574G	3	5.347G	4	5.630G
5	5.390G	6	5.262G	7	5.361G	8	5.402G
9	5.525G	10	5.430G	11	5.393G	12	5.694G
13	5.469G	14	5.604G	15	5.286G	16	5.310G
17	5.603G	18	5.433G	19	5.522G	20	5.626G
21	5.691G	22	5.510G	23	5.582G	24	5.464G
25	5.474G	26	5.559G	27	5.387G	28	5.645G
29	5.483G	30	5.571G	31	5.670G	32	5.369G
33	5.581G	34	5.642G	35	5.719G	36	5.308G
37	5.275G	38	5.319G	39	5.432G	40	5.677G
41	5.700G	42	5.533G	43	5.656G	44	5.467G
45	5.366G	46	5.396G	47	5.442G	48	5.482G
49	5.690G	50	5.671G	51	5.299G	52	5.460G
53	5.257G	54	5.405G	55	5.452G	56	5.616G
57	5.524G	58	5.305G	59	5.256G	60	5.539G
61	5.647G	62	5.536G	63	5.607G	64	5.359G
65	5.451G	66	5.588G	67	5.269G	68	5.596G
69	5.667G	70	5.444G	71	5.449G	72	5.277G
73	5.628G	74	5.599G	75	5.457G	76	5.354G
77	5.328G	78	5.404G	79	5.344G	80	5.698G
81	5.420G	82	5.349G	83	5.455G	84	5.343G
85	5.292G	86	5.274G	87	5.511G	88	5.385G
89	5.722G	90	5.360G	91	5.284G	92	5.663G
93	5.665G	94	5.414G	95	5.266G	96	5.475G
97	5.703G	98	5.441G	99	5.487G	100	5.493G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_17							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.619G	2	5.546G	3	5.402G	4	5.335G
5	5.598G	6	5.668G	7	5.555G	8	5.434G
9	5.253G	10	5.550G	11	5.525G	12	5.609G
13	5.250G	14	5.625G	15	5.324G	16	5.295G
17	5.486G	18	5.461G	19	5.321G	20	5.573G
21	5.331G	22	5.699G	23	5.397G	24	5.672G
25	5.701G	26	5.676G	27	5.364G	28	5.581G
29	5.472G	30	5.664G	31	5.622G	32	5.422G
33	5.570G	34	5.507G	35	5.370G	36	5.317G
37	5.362G	38	5.717G	39	5.334G	40	5.516G
41	5.547G	42	5.554G	43	5.264G	44	5.418G
45	5.452G	46	5.702G	47	5.430G	48	5.300G
49	5.411G	50	5.541G	51	5.512G	52	5.287G
53	5.608G	54	5.343G	55	5.404G	56	5.709G
57	5.359G	58	5.281G	59	5.438G	60	5.595G
61	5.591G	62	5.689G	63	5.607G	64	5.675G
65	5.623G	66	5.436G	67	5.408G	68	5.707G
69	5.720G	70	5.332G	71	5.275G	72	5.646G
73	5.351G	74	5.459G	75	5.513G	76	5.612G
77	5.540G	78	5.303G	79	5.533G	80	5.613G
81	5.583G	82	5.381G	83	5.611G	84	5.569G
85	5.478G	86	5.687G	87	5.344G	88	5.705G
89	5.666G	90	5.552G	91	5.368G	92	5.669G
93	5.462G	94	5.588G	95	5.318G	96	5.614G
97	5.639G	98	5.337G	99	5.415G	100	5.710G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_18							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.425G	2	5.273G	3	5.551G	4	5.616G
5	5.544G	6	5.661G	7	5.564G	8	5.331G
9	5.424G	10	5.277G	11	5.362G	12	5.289G
13	5.512G	14	5.274G	15	5.719G	16	5.296G
17	5.600G	18	5.275G	19	5.381G	20	5.430G
21	5.357G	22	5.603G	23	5.688G	24	5.263G
25	5.261G	26	5.606G	27	5.321G	28	5.355G
29	5.426G	30	5.637G	31	5.336G	32	5.462G
33	5.716G	34	5.380G	35	5.524G	36	5.718G
37	5.482G	38	5.648G	39	5.570G	40	5.436G
41	5.613G	42	5.588G	43	5.658G	44	5.579G
45	5.456G	46	5.660G	47	5.690G	48	5.541G
49	5.552G	50	5.646G	51	5.592G	52	5.560G
53	5.439G	54	5.666G	55	5.335G	56	5.382G
57	5.286G	58	5.677G	59	5.268G	60	5.258G
61	5.366G	62	5.583G	63	5.310G	64	5.653G
65	5.450G	66	5.615G	67	5.399G	68	5.440G
69	5.708G	70	5.547G	71	5.663G	72	5.610G
73	5.509G	74	5.536G	75	5.429G	76	5.611G
77	5.337G	78	5.408G	79	5.385G	80	5.481G
81	5.581G	82	5.452G	83	5.576G	84	5.605G
85	5.253G	86	5.252G	87	5.649G	88	5.589G
89	5.279G	90	5.657G	91	5.264G	92	5.532G
93	5.619G	94	5.416G	95	5.566G	96	5.396G
97	5.457G	98	5.503G	99	5.689G	100	5.530G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_19							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.636G	2	5.362G	3	5.640G	4	5.707G
5	5.631G	6	5.612G	7	5.547G	8	5.512G
9	5.708G	10	5.340G	11	5.575G	12	5.632G
13	5.619G	14	5.429G	15	5.513G	16	5.285G
17	5.546G	18	5.651G	19	5.509G	20	5.562G
21	5.526G	22	5.387G	23	5.471G	24	5.724G
25	5.372G	26	5.577G	27	5.331G	28	5.667G
29	5.684G	30	5.269G	31	5.678G	32	5.320G
33	5.325G	34	5.709G	35	5.654G	36	5.398G
37	5.599G	38	5.257G	39	5.352G	40	5.499G
41	5.385G	42	5.322G	43	5.449G	44	5.374G
45	5.616G	46	5.261G	47	5.722G	48	5.256G
49	5.596G	50	5.469G	51	5.291G	52	5.391G
53	5.602G	54	5.467G	55	5.506G	56	5.714G
57	5.572G	58	5.327G	59	5.618G	60	5.536G
61	5.595G	62	5.370G	63	5.675G	64	5.511G
65	5.671G	66	5.698G	67	5.461G	68	5.649G
69	5.415G	70	5.439G	71	5.333G	72	5.460G
73	5.552G	74	5.643G	75	5.669G	76	5.357G
77	5.306G	78	5.367G	79	5.271G	80	5.625G
81	5.589G	82	5.250G	83	5.605G	84	5.329G
85	5.534G	86	5.378G	87	5.427G	88	5.316G
89	5.425G	90	5.442G	91	5.313G	92	5.694G
93	5.652G	94	5.368G	95	5.576G	96	5.593G
97	5.701G	98	5.695G	99	5.590G	100	5.336G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_20							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.653G	2	5.657G	3	5.662G	4	5.407G
5	5.547G	6	5.250G	7	5.315G	8	5.420G
9	5.255G	10	5.336G	11	5.470G	12	5.544G
13	5.506G	14	5.468G	15	5.325G	16	5.437G
17	5.458G	18	5.526G	19	5.409G	20	5.604G
21	5.382G	22	5.259G	23	5.504G	24	5.354G
25	5.715G	26	5.462G	27	5.278G	28	5.419G
29	5.659G	30	5.519G	31	5.377G	32	5.610G
33	5.411G	34	5.329G	35	5.435G	36	5.539G
37	5.346G	38	5.582G	39	5.298G	40	5.321G
41	5.551G	42	5.630G	43	5.685G	44	5.313G
45	5.723G	46	5.485G	47	5.296G	48	5.357G
49	5.418G	50	5.460G	51	5.559G	52	5.312G
53	5.503G	54	5.631G	55	5.678G	56	5.548G
57	5.643G	58	5.615G	59	5.535G	60	5.280G
61	5.552G	62	5.432G	63	5.320G	64	5.294G
65	5.651G	66	5.546G	67	5.310G	68	5.683G
69	5.603G	70	5.658G	71	5.304G	72	5.684G
73	5.262G	74	5.521G	75	5.636G	76	5.380G
77	5.623G	78	5.512G	79	5.627G	80	5.300G
81	5.442G	82	5.363G	83	5.476G	84	5.405G
85	5.632G	86	5.426G	87	5.393G	88	5.395G
89	5.692G	90	5.400G	91	5.374G	92	5.510G
93	5.602G	94	5.440G	95	5.629G	96	5.253G
97	5.676G	98	5.495G	99	5.413G	100	5.560G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_21							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.258G	2	5.686G	3	5.465G	4	5.669G
5	5.663G	6	5.641G	7	5.666G	8	5.401G
9	5.622G	10	5.314G	11	5.611G	12	5.554G
13	5.411G	14	5.329G	15	5.664G	16	5.612G
17	5.333G	18	5.466G	19	5.559G	20	5.645G
21	5.397G	22	5.661G	23	5.541G	24	5.463G
25	5.621G	26	5.357G	27	5.443G	28	5.630G
29	5.345G	30	5.377G	31	5.681G	32	5.606G
33	5.313G	34	5.579G	35	5.402G	36	5.555G
37	5.253G	38	5.395G	39	5.711G	40	5.332G
41	5.670G	42	5.585G	43	5.429G	44	5.321G
45	5.499G	46	5.549G	47	5.317G	48	5.530G
49	5.582G	50	5.511G	51	5.454G	52	5.565G
53	5.507G	54	5.589G	55	5.588G	56	5.369G
57	5.659G	58	5.613G	59	5.483G	60	5.550G
61	5.422G	62	5.715G	63	5.707G	64	5.316G
65	5.644G	66	5.393G	67	5.400G	68	5.442G
69	5.510G	70	5.468G	71	5.291G	72	5.456G
73	5.327G	74	5.270G	75	5.724G	76	5.662G
77	5.349G	78	5.548G	79	5.282G	80	5.409G
81	5.515G	82	5.363G	83	5.427G	84	5.375G
85	5.286G	86	5.586G	87	5.343G	88	5.683G
89	5.413G	90	5.665G	91	5.602G	92	5.713G
93	5.275G	94	5.631G	95	5.473G	96	5.421G
97	5.410G	98	5.428G	99	5.497G	100	5.385G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_22							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.323G	2	5.273G	3	5.358G	4	5.468G
5	5.675G	6	5.611G	7	5.595G	8	5.687G
9	5.371G	10	5.692G	11	5.602G	12	5.493G
13	5.702G	14	5.658G	15	5.606G	16	5.410G
17	5.424G	18	5.325G	19	5.346G	20	5.524G
21	5.650G	22	5.661G	23	5.263G	24	5.604G
25	5.434G	26	5.472G	27	5.494G	28	5.430G
29	5.520G	30	5.499G	31	5.336G	32	5.587G
33	5.707G	34	5.582G	35	5.478G	36	5.555G
37	5.688G	38	5.578G	39	5.250G	40	5.635G
41	5.515G	42	5.394G	43	5.724G	44	5.706G
45	5.338G	46	5.666G	47	5.274G	48	5.384G
49	5.720G	50	5.397G	51	5.577G	52	5.662G
53	5.426G	54	5.668G	55	5.684G	56	5.613G
57	5.718G	58	5.257G	59	5.717G	60	5.289G
61	5.609G	62	5.417G	63	5.376G	64	5.281G
65	5.693G	66	5.387G	67	5.508G	68	5.597G
69	5.573G	70	5.329G	71	5.315G	72	5.505G
73	5.412G	74	5.653G	75	5.460G	76	5.554G
77	5.618G	78	5.416G	79	5.527G	80	5.617G
81	5.516G	82	5.560G	83	5.696G	84	5.470G
85	5.340G	86	5.415G	87	5.536G	88	5.377G
89	5.318G	90	5.535G	91	5.482G	92	5.659G
93	5.671G	94	5.380G	95	5.265G	96	5.261G
97	5.373G	98	5.665G	99	5.443G	100	5.694G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_23							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.632G	2	5.524G	3	5.364G	4	5.278G
5	5.542G	6	5.454G	7	5.269G	8	5.436G
9	5.399G	10	5.696G	11	5.435G	12	5.428G
13	5.674G	14	5.558G	15	5.429G	16	5.609G
17	5.340G	18	5.658G	19	5.280G	20	5.556G
21	5.585G	22	5.339G	23	5.356G	24	5.582G
25	5.718G	26	5.559G	27	5.622G	28	5.423G
29	5.432G	30	5.572G	31	5.293G	32	5.313G
33	5.640G	34	5.411G	35	5.693G	36	5.672G
37	5.498G	38	5.720G	39	5.378G	40	5.463G
41	5.403G	42	5.344G	43	5.611G	44	5.669G
45	5.388G	46	5.681G	47	5.407G	48	5.687G
49	5.439G	50	5.365G	51	5.449G	52	5.724G
53	5.494G	54	5.318G	55	5.665G	56	5.634G
57	5.471G	58	5.427G	59	5.692G	60	5.334G
61	5.333G	62	5.598G	63	5.551G	64	5.341G
65	5.268G	66	5.419G	67	5.688G	68	5.367G
69	5.581G	70	5.295G	71	5.251G	72	5.694G
73	5.265G	74	5.553G	75	5.643G	76	5.456G
77	5.490G	78	5.450G	79	5.415G	80	5.546G
81	5.288G	82	5.586G	83	5.495G	84	5.527G
85	5.618G	86	5.520G	87	5.332G	88	5.420G
89	5.704G	90	5.517G	91	5.308G	92	5.606G
93	5.387G	94	5.610G	95	5.413G	96	5.358G
97	5.462G	98	5.469G	99	5.484G	100	5.574G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_24							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.620G	2	5.479G	3	5.647G	4	5.596G
5	5.288G	6	5.548G	7	5.417G	8	5.628G
9	5.316G	10	5.301G	11	5.350G	12	5.259G
13	5.364G	14	5.442G	15	5.525G	16	5.488G
17	5.311G	18	5.391G	19	5.560G	20	5.621G
21	5.588G	22	5.604G	23	5.279G	24	5.652G
25	5.619G	26	5.445G	27	5.321G	28	5.444G
29	5.516G	30	5.490G	31	5.336G	32	5.277G
33	5.695G	34	5.473G	35	5.612G	36	5.702G
37	5.648G	38	5.414G	39	5.666G	40	5.340G
41	5.519G	42	5.396G	43	5.624G	44	5.434G
45	5.597G	46	5.281G	47	5.553G	48	5.703G
49	5.720G	50	5.532G	51	5.662G	52	5.595G
53	5.303G	54	5.459G	55	5.346G	56	5.269G
57	5.419G	58	5.511G	59	5.294G	60	5.284G
61	5.397G	62	5.398G	63	5.500G	64	5.724G
65	5.600G	66	5.305G	67	5.607G	68	5.437G
69	5.312G	70	5.598G	71	5.523G	72	5.670G
73	5.557G	74	5.335G	75	5.460G	76	5.570G
77	5.349G	78	5.561G	79	5.489G	80	5.377G
81	5.278G	82	5.627G	83	5.625G	84	5.324G
85	5.545G	86	5.330G	87	5.347G	88	5.425G
89	5.723G	90	5.711G	91	5.544G	92	5.691G
93	5.470G	94	5.307G	95	5.538G	96	5.370G
97	5.643G	98	5.332G	99	5.429G	100	5.339G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_25							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.643G	2	5.324G	3	5.452G	4	5.298G
5	5.310G	6	5.501G	7	5.404G	8	5.392G
9	5.628G	10	5.697G	11	5.339G	12	5.365G
13	5.559G	14	5.382G	15	5.505G	16	5.464G
17	5.350G	18	5.481G	19	5.470G	20	5.400G
21	5.634G	22	5.320G	23	5.645G	24	5.669G
25	5.498G	26	5.288G	27	5.605G	28	5.641G
29	5.348G	30	5.377G	31	5.340G	32	5.430G
33	5.389G	34	5.692G	35	5.564G	36	5.540G
37	5.433G	38	5.620G	39	5.352G	40	5.608G
41	5.551G	42	5.367G	43	5.343G	44	5.278G
45	5.425G	46	5.585G	47	5.259G	48	5.276G
49	5.336G	50	5.341G	51	5.632G	52	5.546G
53	5.337G	54	5.261G	55	5.396G	56	5.722G
57	5.654G	58	5.651G	59	5.369G	60	5.463G
61	5.524G	62	5.696G	63	5.332G	64	5.270G
65	5.284G	66	5.706G	67	5.414G	68	5.447G
69	5.359G	70	5.675G	71	5.423G	72	5.714G
73	5.314G	74	5.668G	75	5.597G	76	5.253G
77	5.642G	78	5.454G	79	5.676G	80	5.698G
81	5.691G	82	5.526G	83	5.709G	84	5.655G
85	5.321G	86	5.393G	87	5.677G	88	5.471G
89	5.718G	90	5.388G	91	5.617G	92	5.466G
93	5.682G	94	5.565G	95	5.552G	96	5.267G
97	5.383G	98	5.387G	99	5.301G	100	5.708G

**A D T**

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_26							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.352G	2	5.641G	3	5.484G	4	5.503G
5	5.288G	6	5.690G	7	5.433G	8	5.355G
9	5.335G	10	5.699G	11	5.659G	12	5.393G
13	5.691G	14	5.452G	15	5.461G	16	5.330G
17	5.586G	18	5.554G	19	5.299G	20	5.717G
21	5.297G	22	5.477G	23	5.460G	24	5.307G
25	5.420G	26	5.566G	27	5.349G	28	5.406G
29	5.426G	30	5.317G	31	5.383G	32	5.502G
33	5.286G	34	5.334G	35	5.674G	36	5.559G
37	5.409G	38	5.351G	39	5.618G	40	5.395G
41	5.298G	42	5.532G	43	5.706G	44	5.629G
45	5.482G	46	5.403G	47	5.595G	48	5.591G
49	5.720G	50	5.483G	51	5.254G	52	5.637G
53	5.292G	54	5.404G	55	5.468G	56	5.700G
57	5.272G	58	5.411G	59	5.425G	60	5.516G
61	5.486G	62	5.373G	63	5.523G	64	5.285G
65	5.462G	66	5.342G	67	5.265G	68	5.382G
69	5.589G	70	5.407G	71	5.365G	72	5.709G
73	5.605G	74	5.434G	75	5.504G	76	5.530G
77	5.370G	78	5.430G	79	5.305G	80	5.536G
81	5.493G	82	5.487G	83	5.359G	84	5.594G
85	5.357G	86	5.423G	87	5.327G	88	5.304G
89	5.569G	90	5.428G	91	5.312G	92	5.608G
93	5.270G	94	5.281G	95	5.488G	96	5.387G
97	5.577G	98	5.644G	99	5.278G	100	5.565G

**A D T**

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_27							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.481G	2	5.641G	3	5.534G	4	5.567G
5	5.653G	6	5.253G	7	5.583G	8	5.553G
9	5.535G	10	5.373G	11	5.408G	12	5.544G
13	5.572G	14	5.595G	15	5.283G	16	5.532G
17	5.438G	18	5.268G	19	5.546G	20	5.525G
21	5.676G	22	5.688G	23	5.696G	24	5.259G
25	5.670G	26	5.252G	27	5.719G	28	5.289G
29	5.464G	30	5.343G	31	5.394G	32	5.704G
33	5.549G	34	5.678G	35	5.666G	36	5.257G
37	5.513G	38	5.307G	39	5.381G	40	5.660G
41	5.357G	42	5.403G	43	5.643G	44	5.571G
45	5.286G	46	5.568G	47	5.423G	48	5.526G
49	5.405G	50	5.334G	51	5.320G	52	5.452G
53	5.316G	54	5.716G	55	5.302G	56	5.301G
57	5.263G	58	5.697G	59	5.556G	60	5.413G
61	5.262G	62	5.364G	63	5.557G	64	5.656G
65	5.655G	66	5.493G	67	5.375G	68	5.712G
69	5.606G	70	5.600G	71	5.596G	72	5.627G
73	5.707G	74	5.296G	75	5.684G	76	5.331G
77	5.453G	78	5.484G	79	5.498G	80	5.623G
81	5.311G	82	5.616G	83	5.540G	84	5.509G
85	5.531G	86	5.621G	87	5.501G	88	5.396G
89	5.647G	90	5.290G	91	5.477G	92	5.721G
93	5.494G	94	5.441G	95	5.322G	96	5.297G
97	5.694G	98	5.419G	99	5.640G	100	5.390G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_28							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.334G	2	5.703G	3	5.616G	4	5.535G
5	5.378G	6	5.294G	7	5.292G	8	5.511G
9	5.317G	10	5.318G	11	5.708G	12	5.470G
13	5.372G	14	5.392G	15	5.701G	16	5.328G
17	5.607G	18	5.593G	19	5.326G	20	5.667G
21	5.387G	22	5.719G	23	5.441G	24	5.319G
25	5.505G	26	5.281G	27	5.525G	28	5.570G
29	5.291G	30	5.693G	31	5.537G	32	5.303G
33	5.261G	34	5.552G	35	5.485G	36	5.343G
37	5.718G	38	5.347G	39	5.514G	40	5.262G
41	5.660G	42	5.436G	43	5.288G	44	5.723G
45	5.606G	46	5.380G	47	5.396G	48	5.381G
49	5.567G	50	5.527G	51	5.450G	52	5.601G
53	5.449G	54	5.373G	55	5.471G	56	5.510G
57	5.391G	58	5.507G	59	5.532G	60	5.300G
61	5.375G	62	5.561G	63	5.316G	64	5.661G
65	5.617G	66	5.563G	67	5.551G	68	5.595G
69	5.356G	70	5.289G	71	5.555G	72	5.560G
73	5.571G	74	5.681G	75	5.443G	76	5.501G
77	5.266G	78	5.293G	79	5.468G	80	5.274G
81	5.587G	82	5.698G	83	5.304G	84	5.553G
85	5.315G	86	5.455G	87	5.286G	88	5.500G
89	5.523G	90	5.482G	91	5.331G	92	5.348G
93	5.550G	94	5.631G	95	5.399G	96	5.598G
97	5.269G	98	5.576G	99	5.645G	100	5.388G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_29							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.662G	2	5.671G	3	5.616G	4	5.392G
5	5.430G	6	5.646G	7	5.562G	8	5.585G
9	5.438G	10	5.408G	11	5.680G	12	5.447G
13	5.356G	14	5.469G	15	5.336G	16	5.263G
17	5.665G	18	5.517G	19	5.419G	20	5.635G
21	5.645G	22	5.649G	23	5.565G	24	5.341G
25	5.677G	26	5.691G	27	5.655G	28	5.486G
29	5.395G	30	5.443G	31	5.368G	32	5.354G
33	5.632G	34	5.345G	35	5.493G	36	5.707G
37	5.637G	38	5.693G	39	5.320G	40	5.405G
41	5.316G	42	5.280G	43	5.603G	44	5.299G
45	5.559G	46	5.534G	47	5.396G	48	5.474G
49	5.436G	50	5.580G	51	5.310G	52	5.377G
53	5.407G	54	5.365G	55	5.488G	56	5.546G
57	5.512G	58	5.642G	59	5.629G	60	5.561G
61	5.448G	62	5.515G	63	5.291G	64	5.471G
65	5.433G	66	5.531G	67	5.541G	68	5.584G
69	5.483G	70	5.276G	71	5.473G	72	5.553G
73	5.681G	74	5.363G	75	5.720G	76	5.626G
77	5.315G	78	5.619G	79	5.458G	80	5.622G
81	5.527G	82	5.524G	83	5.284G	84	5.380G
85	5.312G	86	5.648G	87	5.435G	88	5.563G
89	5.321G	90	5.441G	91	5.523G	92	5.279G
93	5.636G	94	5.325G	95	5.409G	96	5.371G
97	5.570G	98	5.289G	99	5.372G	100	5.612G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_30							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.451G	2	5.338G	3	5.668G	4	5.349G
5	5.569G	6	5.350G	7	5.313G	8	5.255G
9	5.571G	10	5.593G	11	5.689G	12	5.647G
13	5.314G	14	5.400G	15	5.617G	16	5.665G
17	5.472G	18	5.613G	19	5.424G	20	5.573G
21	5.683G	22	5.440G	23	5.623G	24	5.361G
25	5.306G	26	5.384G	27	5.393G	28	5.420G
29	5.425G	30	5.310G	31	5.500G	32	5.336G
33	5.702G	34	5.457G	35	5.320G	36	5.327G
37	5.317G	38	5.651G	39	5.269G	40	5.601G
41	5.522G	42	5.690G	43	5.657G	44	5.254G
45	5.453G	46	5.341G	47	5.459G	48	5.456G
49	5.553G	50	5.597G	51	5.600G	52	5.275G
53	5.712G	54	5.693G	55	5.419G	56	5.606G
57	5.638G	58	5.707G	59	5.445G	60	5.497G
61	5.394G	62	5.330G	63	5.481G	64	5.403G
65	5.603G	66	5.517G	67	5.722G	68	5.589G
69	5.605G	70	5.256G	71	5.607G	72	5.305G
73	5.474G	74	5.509G	75	5.524G	76	5.292G
77	5.566G	78	5.405G	79	5.366G	80	5.532G
81	5.586G	82	5.257G	83	5.523G	84	5.409G
85	5.404G	86	5.549G	87	5.303G	88	5.563G
89	5.663G	90	5.590G	91	5.536G	92	5.598G
93	5.619G	94	5.541G	95	5.455G	96	5.599G
97	5.675G	98	5.273G	99	5.587G	100	5.643G

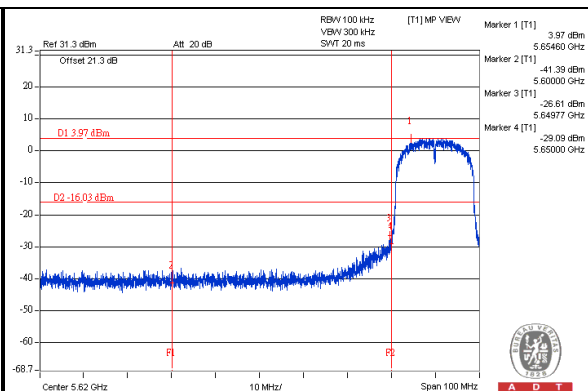
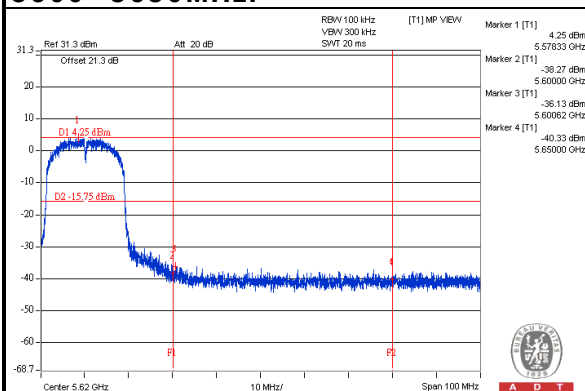
10 APPENDIX-C

MASTER MODE

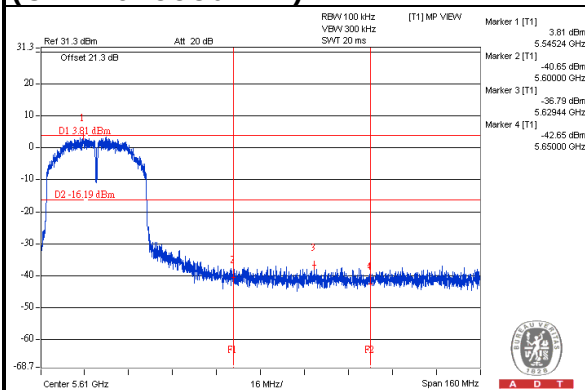
NOTCH BAND IN 5600-5650MHZ

Verify that the 5600 – 5650 MHz band is notched.

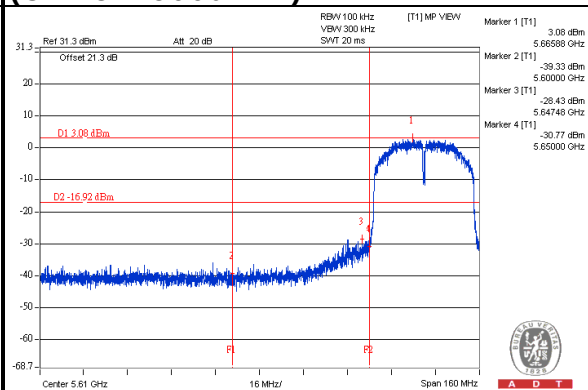
Test results demonstrating last channel shall not exceed the band edge on 5600~5650MHz.



802.11n (20MHz) OFDM MODULATION (CH 116: 5580MHz)



802.11n (20MHz) OFDM MODULATION (CH 132: 5660MHz)

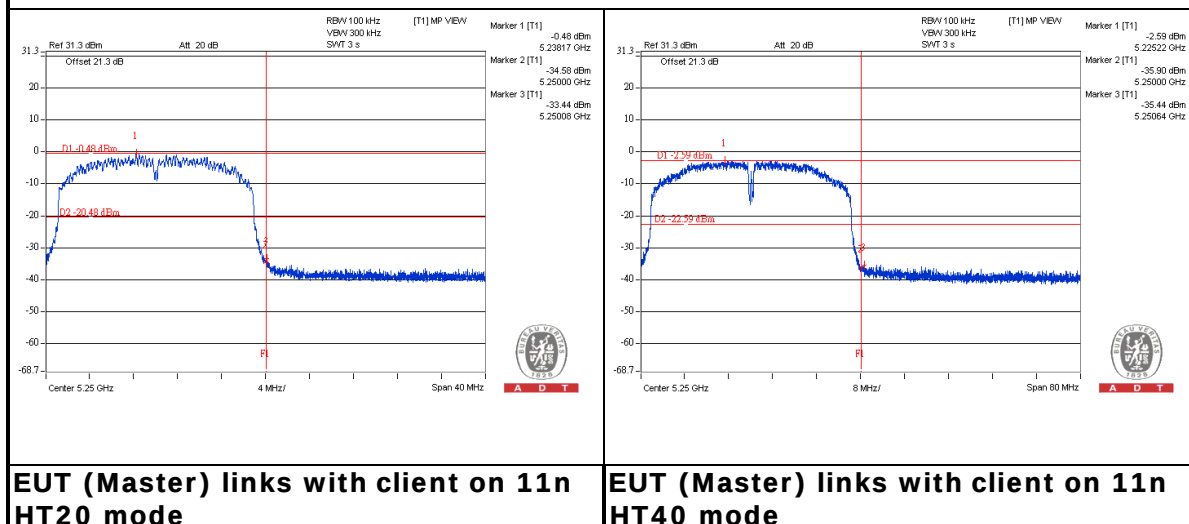


802.11n (40MHz) OFDM MODULATION (CH 110: 5550MHz)

802.11n (40MHz) OFDM MODULATION (CH 134: 5670MHz)

BAND EDGE AT NEARBY DFS BAND

1) Test results demonstrating last channel (20dB BW) shall not exceed the band edge on 5150~5250MHz.



---END---