

DFS TEST REPORT

REPORT NO.: RF110324E03A-2

MODEL NO.: DAP-1522

FCC ID: KA2AP1522B1

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ISSUED: Oct. 06, 2011

APPLICANT: D-Link Corporation

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

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

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF110324E03A-2	Original release	Oct. 06, 2011



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1. CERTIFICATION

PRODUCT: Xtreme N DUO Wireless Bridge/Access Point
BRAND NAME: D-Link
MODEL NO.: DAP-1522
TEST SAMPLE: MASS-PRODUCTION
APPLICANT: D-Link Corporation
TESTED: Aug 02 to 08, 2011
STANDARDS: **FCC Part 15, Subpart E (Section 15.407)**
FCC 06-96

The above equipment (Model: DAP-1522) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY : Midoli Peng, **DATE:** Oct. 06, 2011
(Midoli Peng, Specialist)

APPROVED BY : May Chen, **DATE:** Oct. 06, 2011
(May Chen, Deputy 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
Slave without radar detection	ü	ü

2.2 EUT SOFTWARE AND FIRMWARE VERSION

Table 2: The EUT software/firmware version.

No.	Product	Model No.	Software/Firmware Version
1	Xtreme N DUO Wireless Bridge/Access Point	DAP-1522	Firmware Version :2.01 Thu 18 Aug 2011

2.3 DESCRIPTION OF AVAILABLE ANTENNAS TO THE EUT

Table 3: Antenna list.

Antenna Set 1					
Transmitter Circuit	Brand name	Model name	Type	Operation Frequency Range	Peak Gain(dBi) (included Cable loss)
Chain (0)	MAG. LAYERS	MSA-3115-25GC1-A1	PIFA	5.25 – 5.725 GHz	1.63
Chain (1)	MAG. LAYERS	MSA-3115-25GC1-A2	PIFA	5.25 – 5.725 GHz	2.68
Antenna Set 2					
Transmitter Circuit	Brand name	Model name	Type	Operation Frequency Range	Peak Gain(dBi) (included Cable loss)
Chain (0)	Airgain	M2445UDC-T2-G	PIFA	5.25 – 5.725 GHz	2
Chain (1)	Airgain	M2445UDC-T2-G	PIFA	5.25 – 5.725 GHz	2

- Note:** 1. This report chose the max. Antenna gain to do final test.
2. For 802.11a: Antenna set 2 was selected as representative antennas for the test.
3. For 802.11n (20MHz) & 802.11n (40MHz) of 5GHz: Antenna set 1 was selected as representative antennas for the test.
4. Please refer to the below table for the detail.

ANTENNA COMBINATION MODE:

COMBINATION MODE	OPERATION MODE	TX CHAIN(0)	TX CHAIN(1)
A	802.11 a	√	
B	802.11n(20MHz) for MCS0~15	√	√
C	802.11n(40MHz) for MCS0~15	√	√

2.4 EUT MAXIMUM AND MINIMUM CONDUCTED POWER

Table 4: The measured conducted output power.

802.11a

Ant Set	Frequency Band(MHz)	MAX. Power	
		Output Power(dBm)	Output Power(mW)
2	5250~5725MHz	19.2	83.2

802.11n HT20

Ant Set	Frequency Band(MHz)	MAX. Power	
		Output Power(dBm)	Output Power(mW)
1	5250~5725MHz	21.4	138.4

802.11n HT40

Ant Set	Frequency Band(MHz)	MAX. Power	
		Output Power(dBm)	Output Power(mW)
1	5250~5725MHz	21.4	138.4

2.5 EUT MAXIMUM AND MINIMUM E.I.R.P. POWER

Table 5: The E.I.R.P output power list.

802.11a

Ant set	Frequency Band(MHz)	MAX. Power	
		Output Power(dBm)	Output Power(mW)
2	5250~5725MHz	21.2	131.8

802.11n HT20

Ant set	Frequency Band(MHz)	MAX. Power	
		Output Power(dBm)	Output Power(mW)
1	5250~5725MHz	24.1	257.7

802.11n HT40

Ant set	Frequency Band(MHz)	MAX. Power	
		Output Power(dBm)	Output Power(mW)
1	5250~5725MHz	24.1	257.7

2.6 TRANSMIT POWER CONTROL (TPC)

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

Maximum E.I.R.P of this device is 257.7mW which less than 500mW, therefore it's not 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. And the device Slave without radar detection mode doesn't have Ad Hoc mode on DFS frequency band.

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 UNTIL	CALIBRATED UNTIL
R&S Spectrum analyzer	FSP40	R&S	Sep. 09, 2010	Sep. 08, 2011
Signal generator	8645A	Agilent	Sep. 03, 2010	Sep. 02, 2011
Oscilloscope	TDS 5104	Tektronix	May. 17, 2011	May. 16, 2012

4.2 DESCRIPTION OF SUPPORT UNITS

Table 2: Support Unit information.

No.	Product	Brand	Model No.	ID	Spec.
1 (Note 1)	Wireless-N USB Adapter	D-Link	DWA-160	KA2WA160B1	
2 (Note 2)	11n Access-Point	MOTOROLA	AP-7131N	UZ7AP7131N	The maximum EIRP is 13.6 dBm, Antenna Gain is -3.38dBi

Note 1: This device was functioned as a ☐ Master ☒ Slave device during the DFS test when the EUT is master mode.

Note 2: This device was functioned as a ☒ Master ☐ Slave device during the DFS test when the EUT is slave without radar detection mode.

Table 3: Software/Firmware information.

No.	Product	Model No.	Software/Firmware Version
1 (Note 1)	Wireless-N USB Adapter	DWA-160	Driver Version: 1.1.1.0
2 (Note 2)	11n Access-Point	AP-7131N	4.0.0.0-036D

Note 1: This device was functioned as a ☐ Master ☒ Slave device during the DFS test when the EUT is master mode.

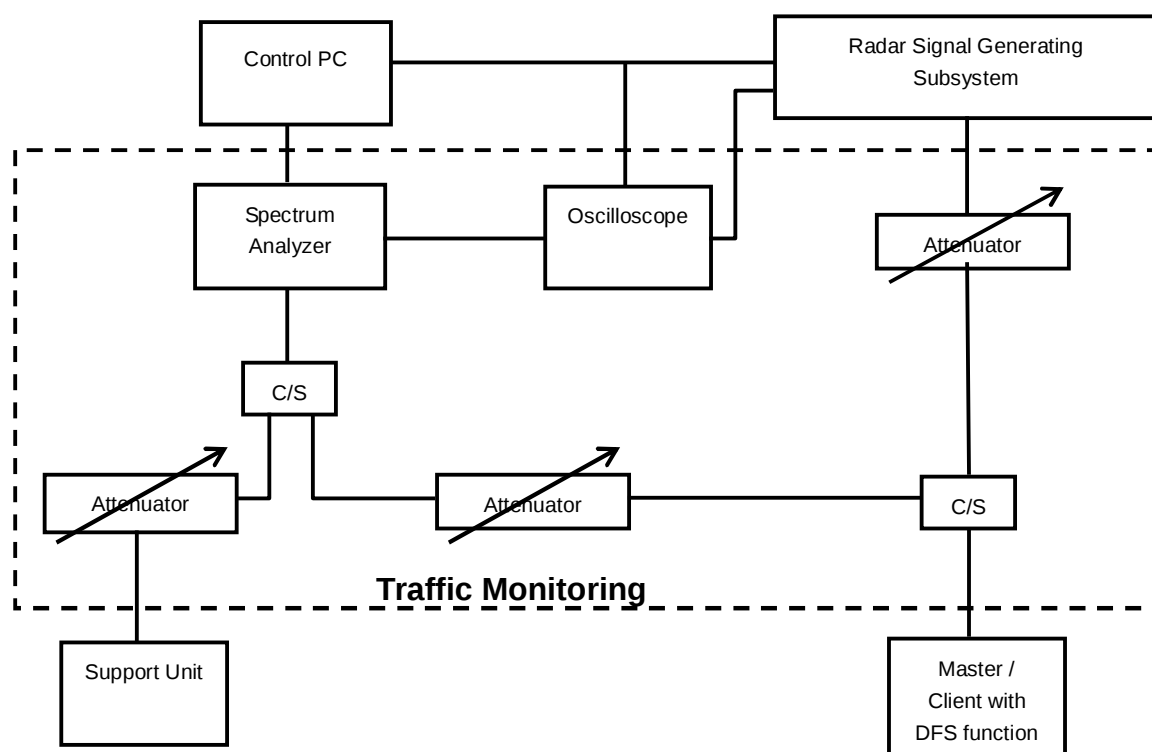
Note 2: This device was functioned as a ☒ Master ☐ Slave device during the DFS test when the EUT is slave without radar detection mode.

5. TEST PROCEDURE

5.1 ADT DFS MEASUREMENT SYSTEM:

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

Conducted setup configuration of ADT DFS Measurement System

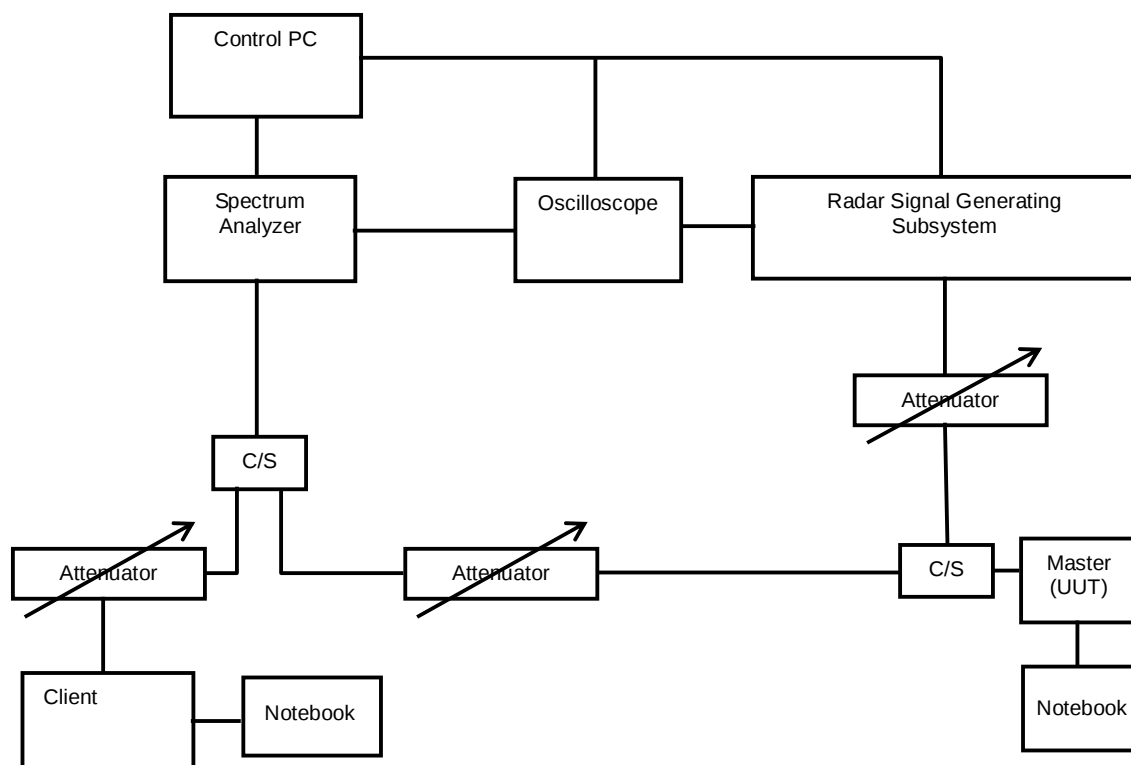


The test transmission will always be from the Master Device to the Client Device. While the Client device is set up to associate with the Master device and play the MPEG file (6 y Magic Hours) from Master device, the designated MPEG test file and instructions are located at:

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

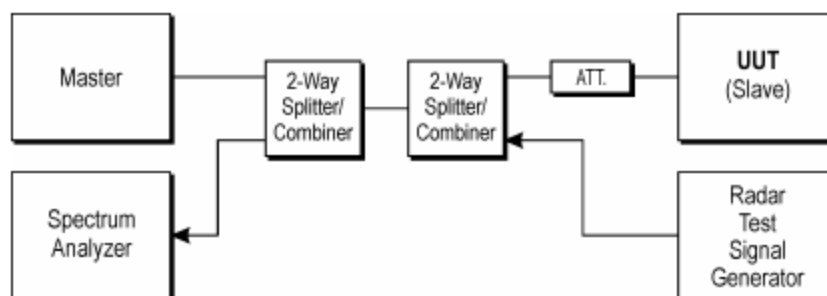
5.4 CONDUCTED TEST SETUP CONFIGURATION

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.

5.4.2 SLAVE WITHOUT RADAR DETECTION MODE



The UUT is a RLAN device operating in slave mode, without Radar Interference Detection function. The radar test signals are injected into the master device.

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

6.1.2 SLAVE WITHOUT RADAR DETECTION MODE

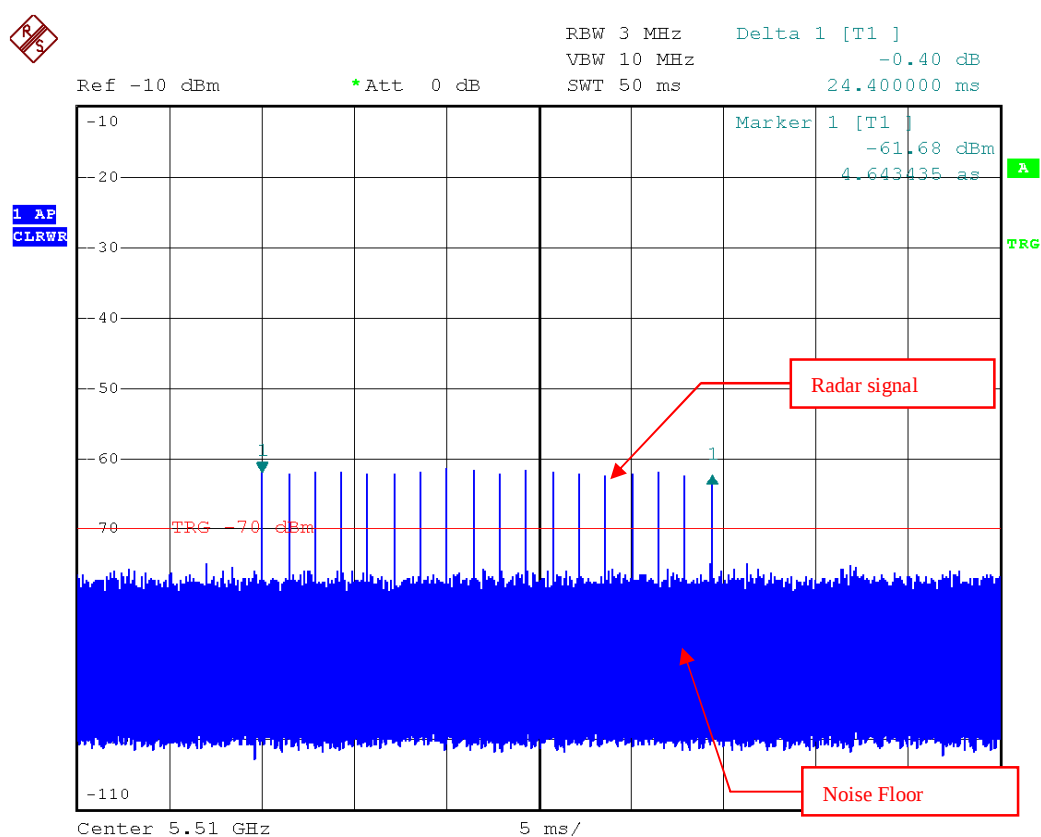
CLAUSE	TEST PARAMETER	REMARKS	PASS/FAIL
15.407	DFS Detection Threshold	Not Applicable	NA
15.407	Channel Availability Check Time	Not Applicable	NA
15.407	Channel Move Time	Applicable	Pass
15.407	Channel Closing Transmission Time	Applicable	Pass
15.407	Non- Occupancy Period	Applicable	Pass
15.407	Uniform Spreading	Not Applicable	NA
15.407	U-NII Detection Bandwidth	Not Applicable	NA
15.407	Non-associated test	Applicable	Pass
15.407	Non-Co-Channel test	Applicable	Pass

6.2 DETAIL TEST RESULTS

6.2.1. TEST MODE: DEVICE OPERATING IN MASTER MODE.

6.2.1.1 DFS DETECTION THRESHOLD

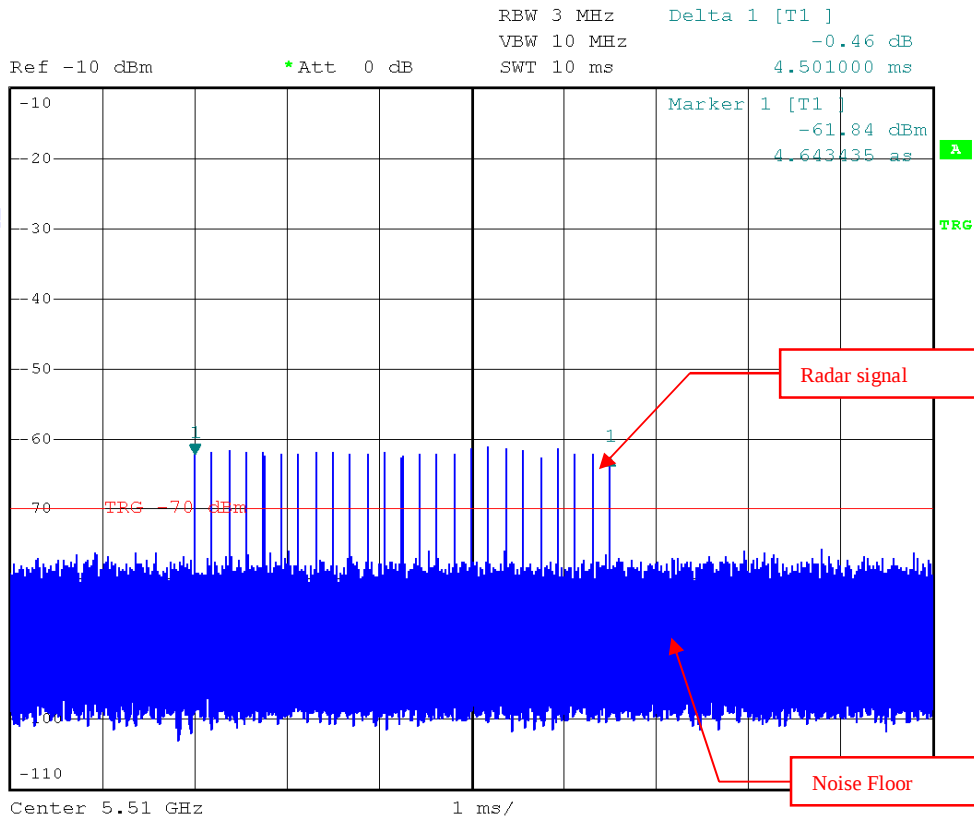
For a detection threshold level of -64dBm and net gain is 1.63dBi . The required detection threshold is -61.37dBm ($= -64 + 1 + 1.63$) dBm . The conducted radar burst level is set to -61.37dBm .



Radar Signal 1



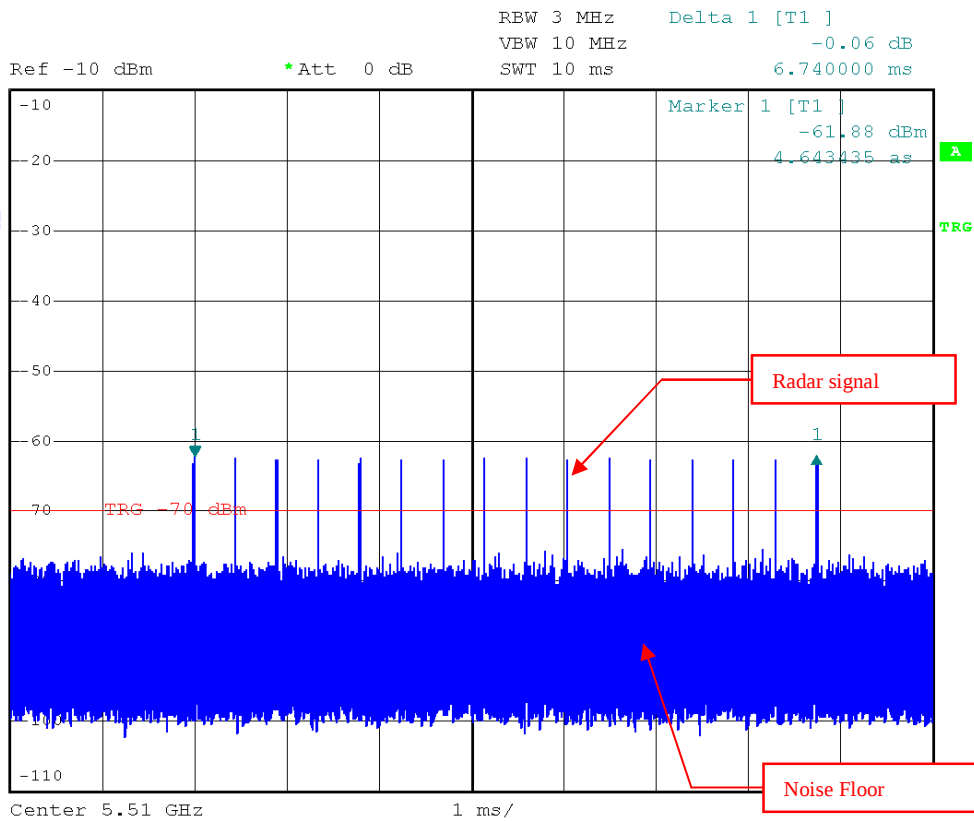
1 AF
CLRWR



Radar Signal 2



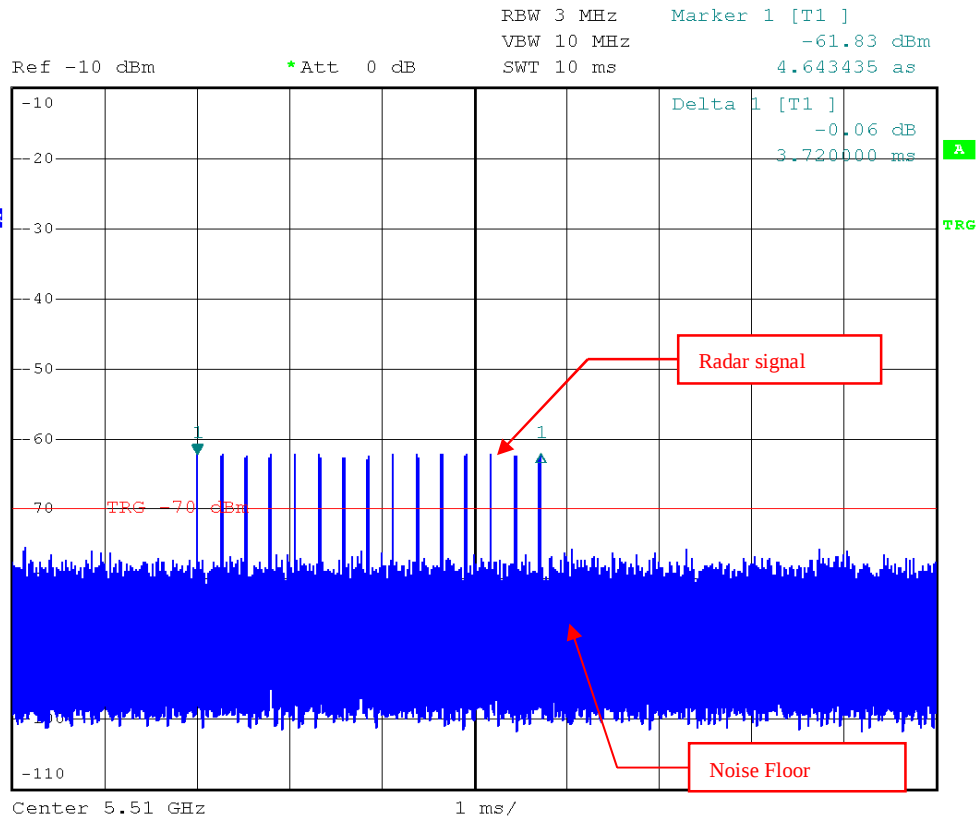
1 AF
CLRWR



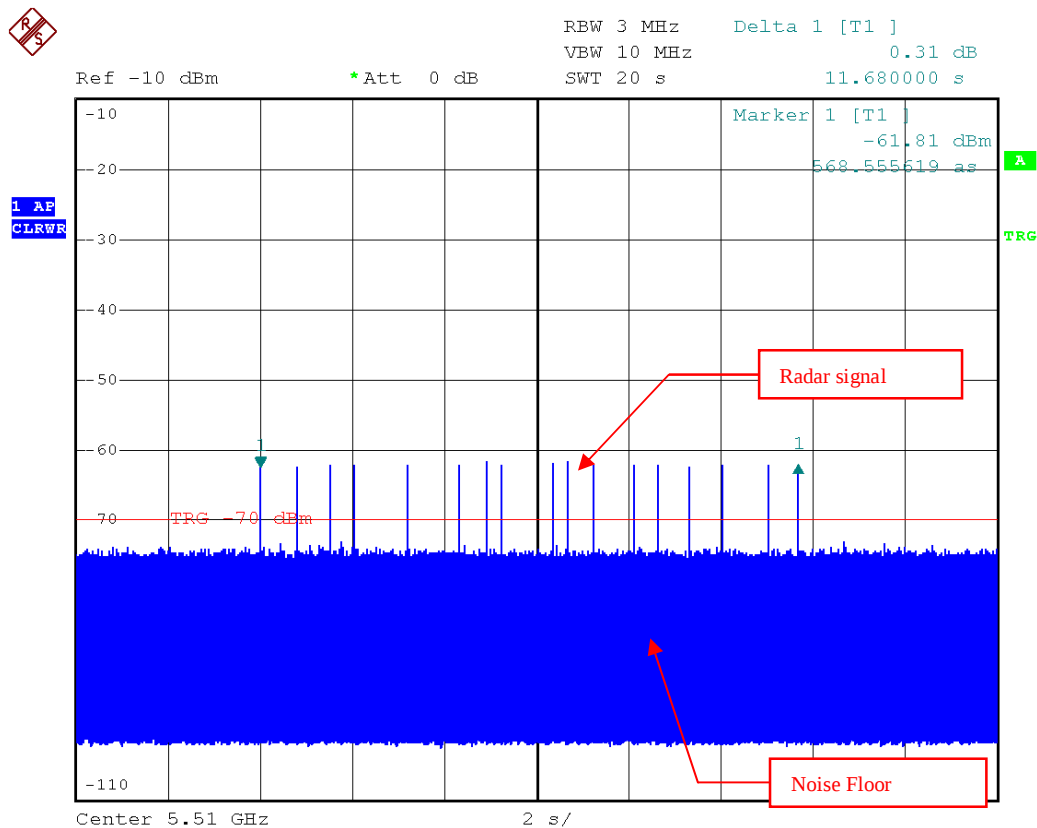
Radar Signal 3



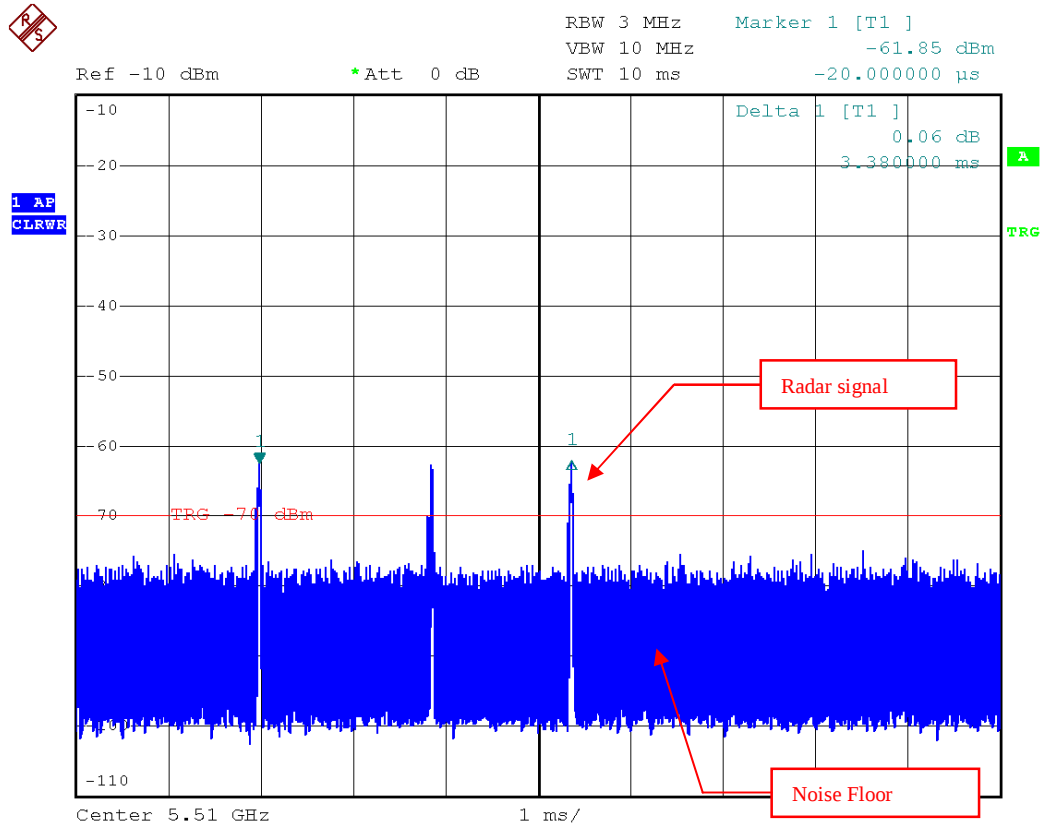
1 AF
CLRWR



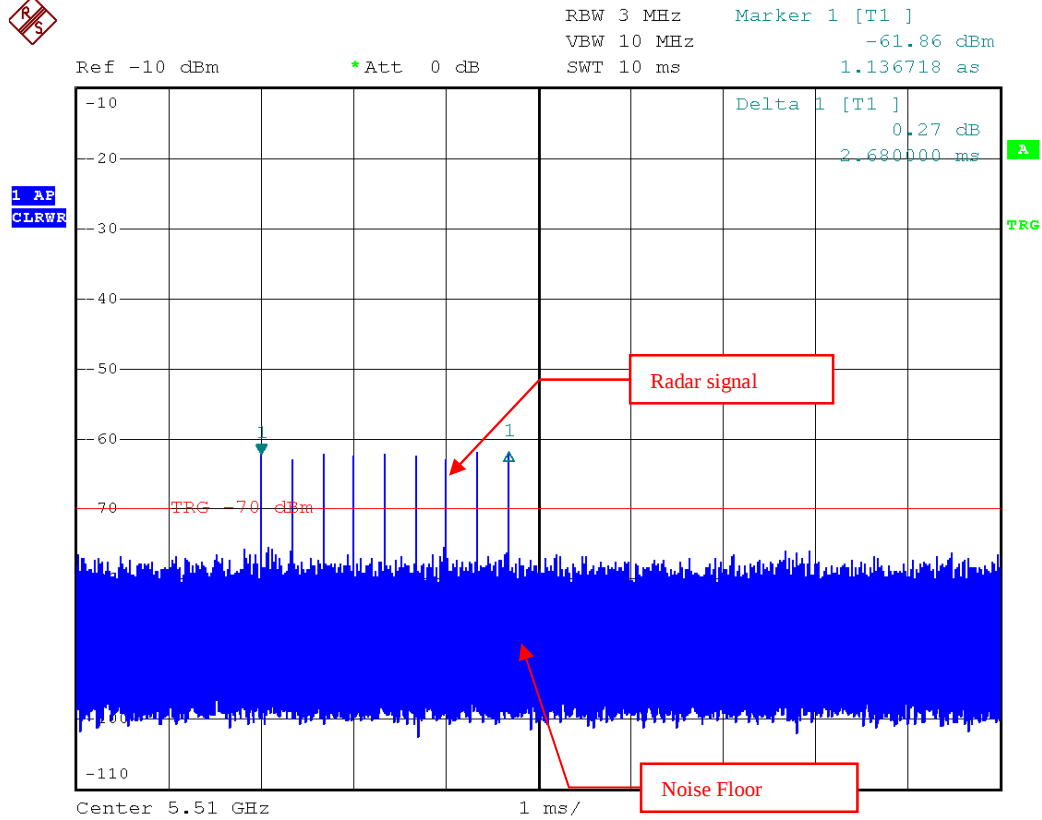
Radar Signal 4



Radar Signal 5



Single Burst of Radar Signal 5

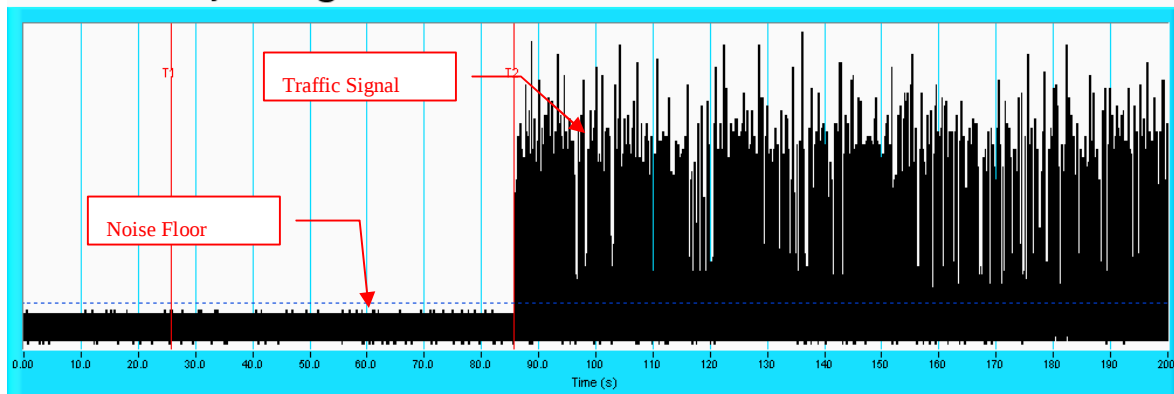


Radar Signal 6

6.2.1.2 CHANNEL AVAILABILITY CHECK TIME

Initial Channel Availability Check Time

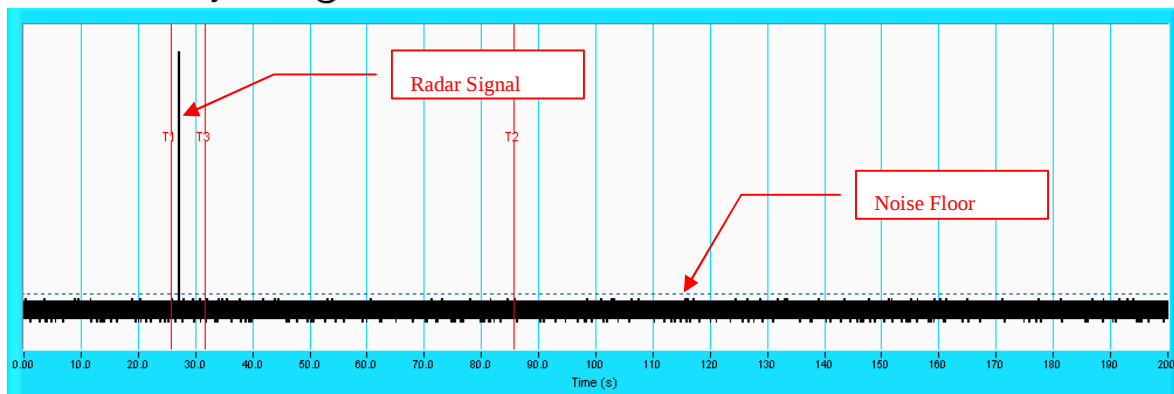
Channel Availability Check @ CH100 - 5500MHz



NOTE: T1 denotes the end of power-up time period is 25.7th second. T2 denotes the end of Channel Availability Check time is 85.7th second. Channel Availability Check time is equal to (T2 – T1) 60 seconds.

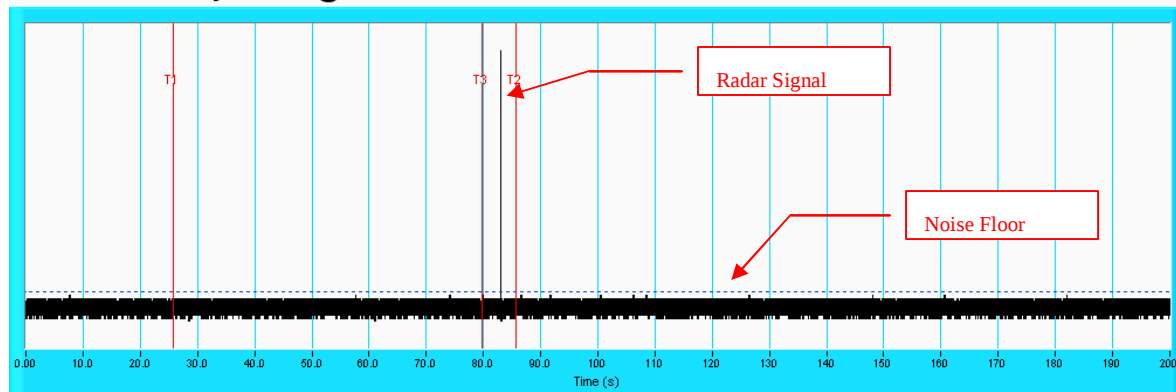
Radar Burst at the Beginning of the Channel Availability Check Time

Channel Availability Check @ CH100 - 5500MHz



NOTE: T1 denotes the end of power up time period is 25.7th second. T3 denotes the radar burst was commenced within a 6 second window starting from the end of power-up sequence. T2 denotes the 85.7th second.

Radar Burst at the End of the Channel Availability Check Time **Channel Availability Check @ CH100 - 5500MHz**



NOTE: T1 denotes the end of power up time period is 25.7th second. T2 denotes 85.7th second and T3 denotes the 79.7th second. The radar burst was commenced within 54th second to 60th second window starting from the end of power-up sequence.

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	93.5
3	6-10	200-500	16-18	30	77.4
4	11-20	200-500	12-16	30	76.7
Aggregate (Radar Types 1-4)				120	86.08

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	100

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	96.7

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	80
2	1-5	150-230	23-29	30	80
3	6-10	200-500	16-18	30	86.7
4	11-20	200-500	12-16	30	74.2
Aggregate (Radar Types 1-4)				120	80.23

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	100

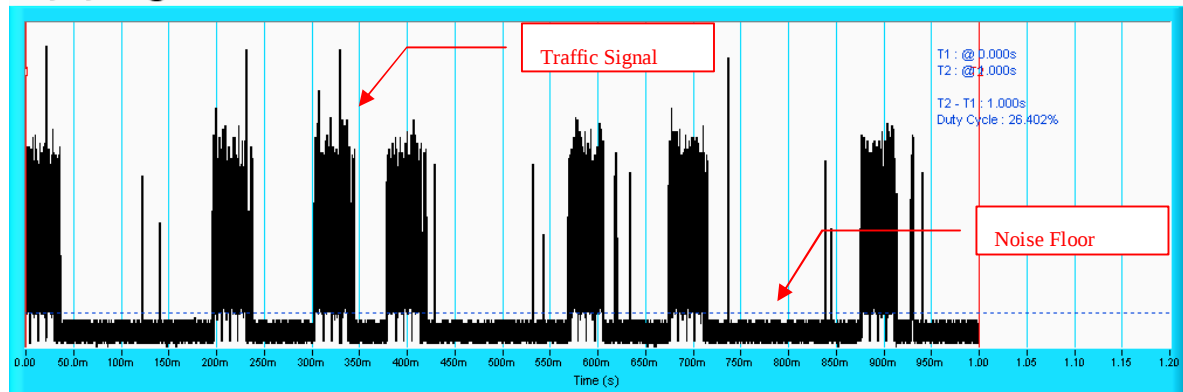
Table 9: Frequency Hopping Radar Test Waveform

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	100

WLAN TRAFFIC

802.11n HT20

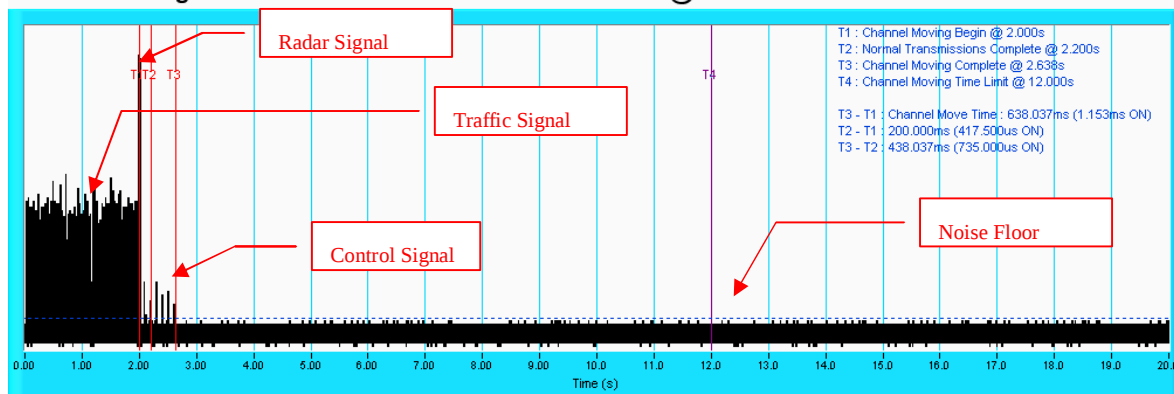
Duty Cycle @ CH100 - 5500MHz



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 = 26.402%

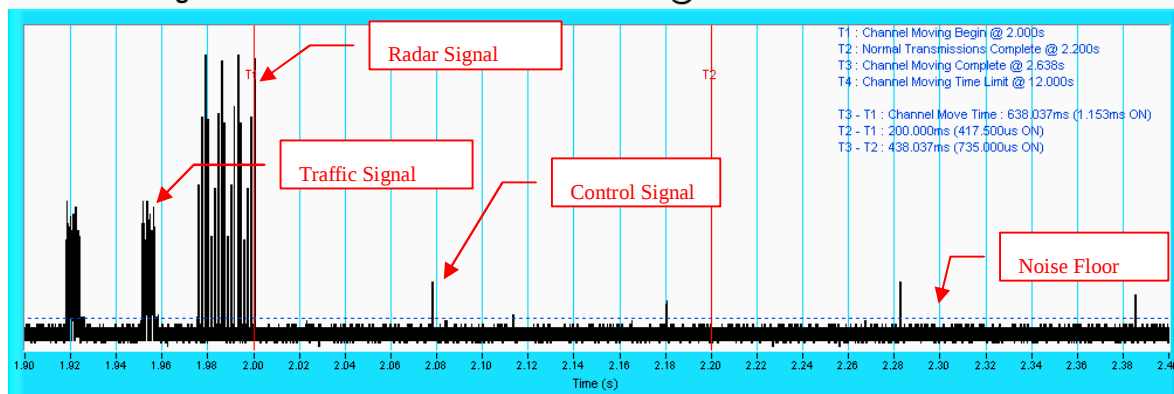
Radar signal 1

Channel Closing Transmission Time & Channel Move Time @ CH100 - 5500MHz



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.

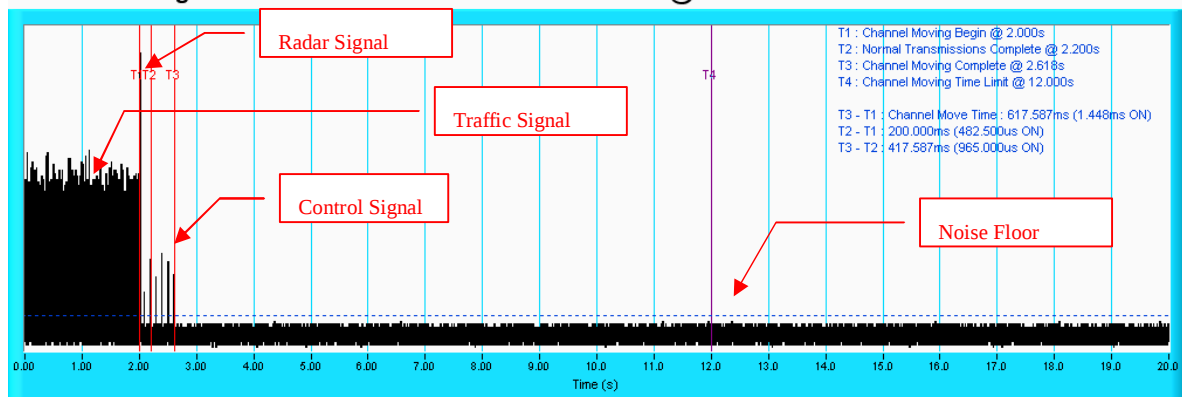
Channel Closing Transmission Time & Channel Move Time @ CH100 - 5500MHz



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

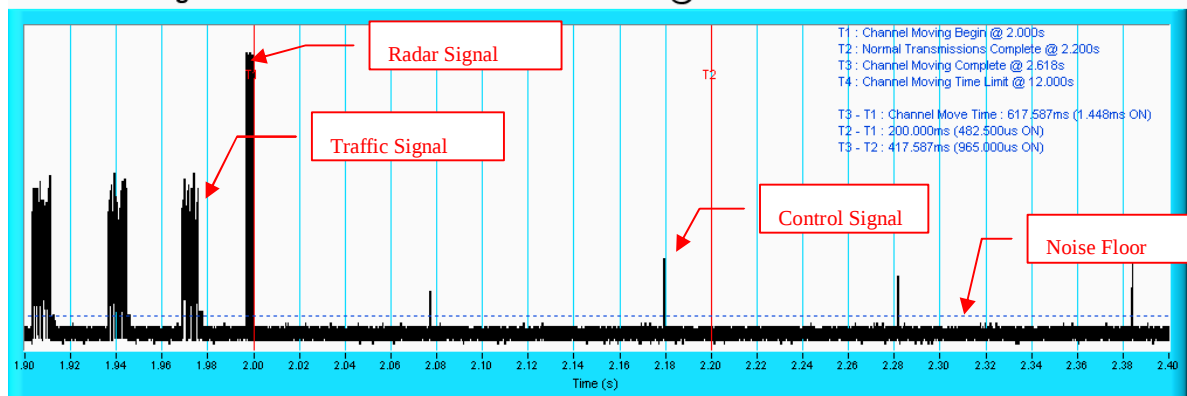
Radar signal 2

Channel Closing Transmission Time & Channel Move Time @ CH100 - 5500MHz



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.

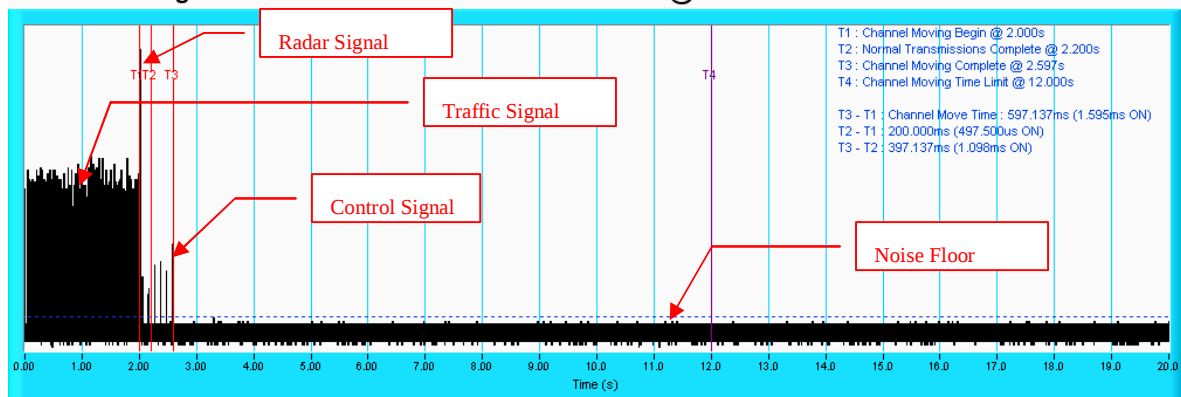
Channel Closing Transmission Time & Channel Move Time @ CH100 - 5500MHz



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

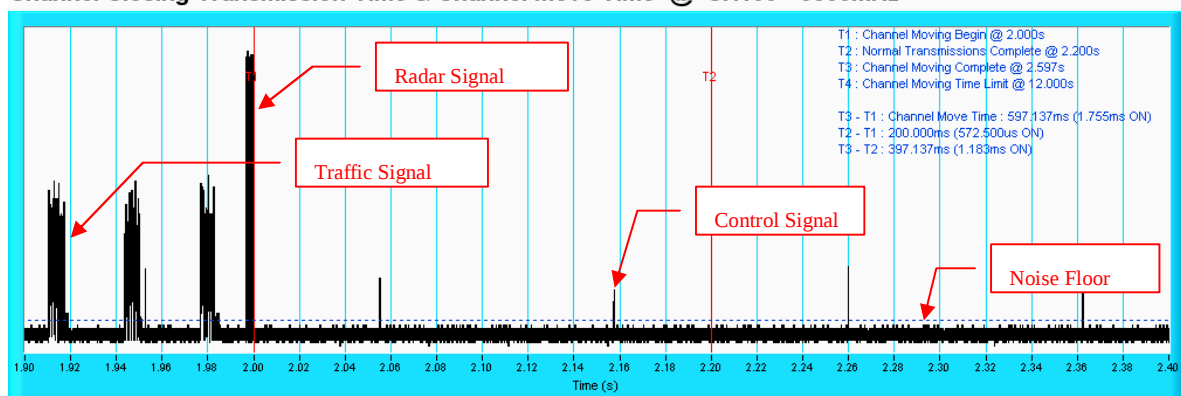
Radar signal 3

Channel Closing Transmission Time & Channel Move Time @ CH100 - 5500MHz



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.

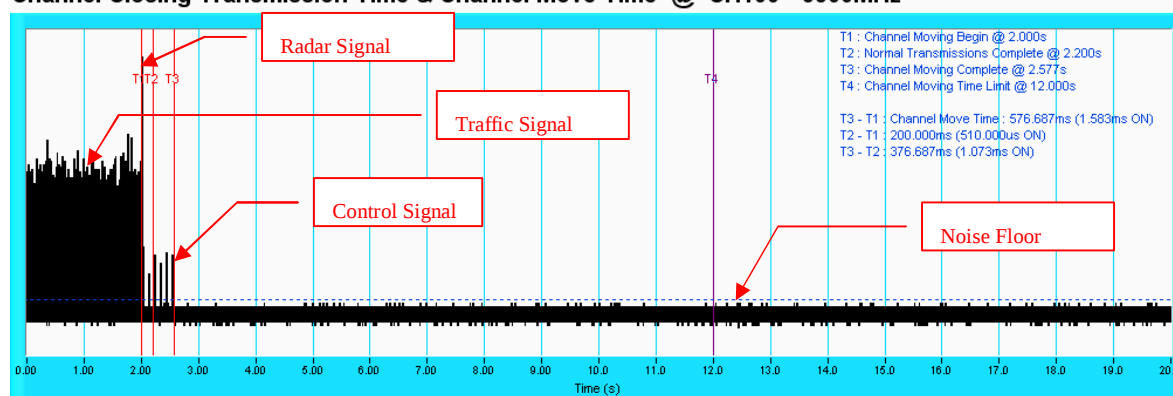
Channel Closing Transmission Time & Channel Move Time @ CH100 - 5500MHz



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

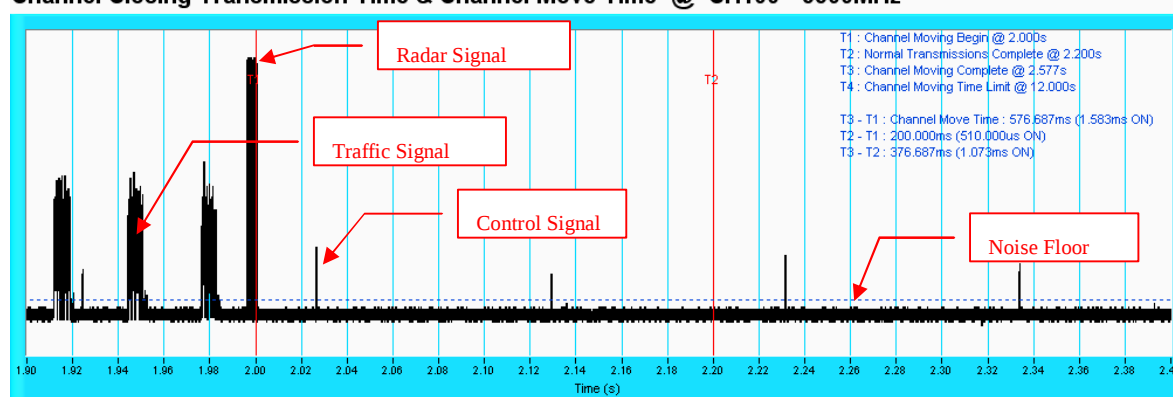
Radar signal 4

Channel Closing Transmission Time & Channel Move Time @ CH100 - 5500MHz



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.

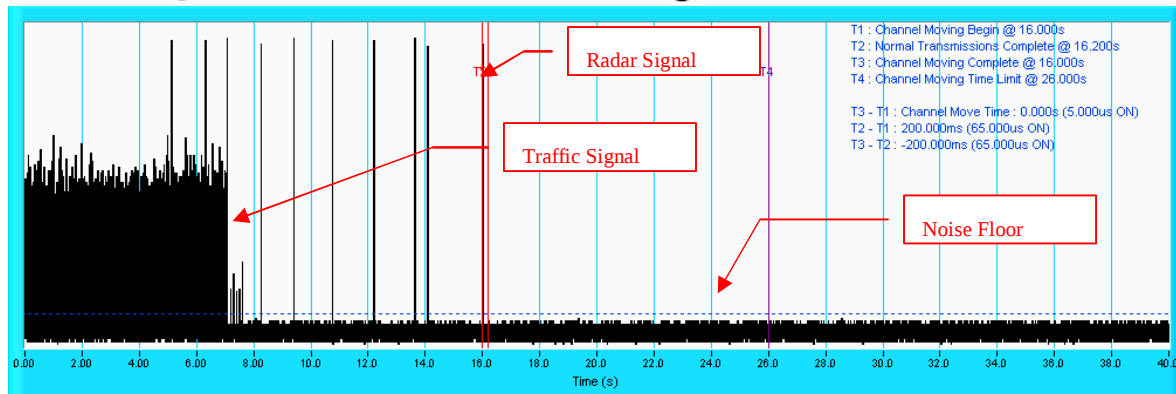
Channel Closing Transmission Time & Channel Move Time @ CH100 - 5500MHz



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

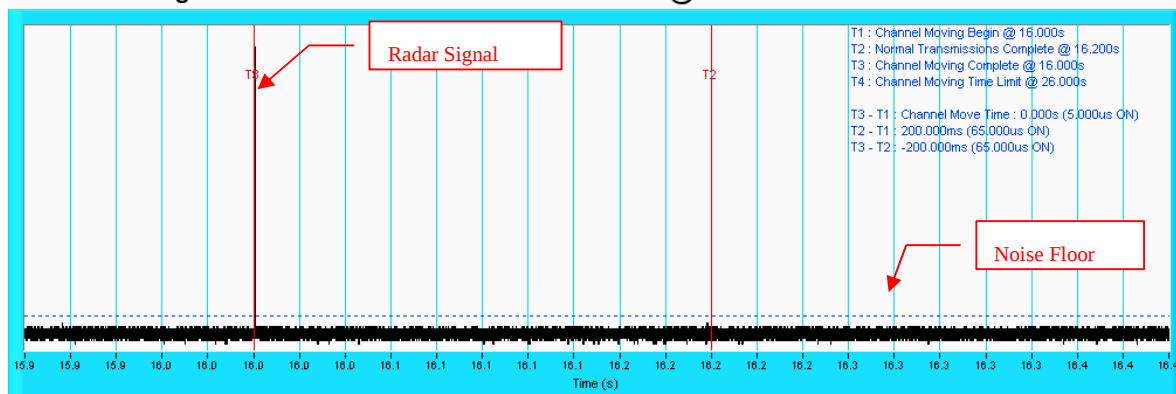
Radar signal 5

Channel Closing Transmission Time & Channel Move Time @ CH100 - 5500MHz



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.

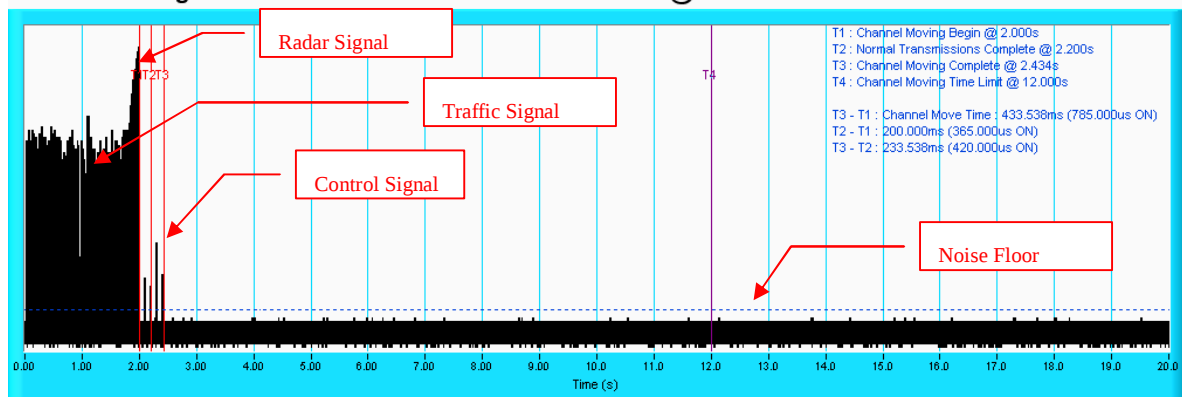
Channel Closing Transmission Time & Channel Move Time @ CH100 - 5500MHz



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

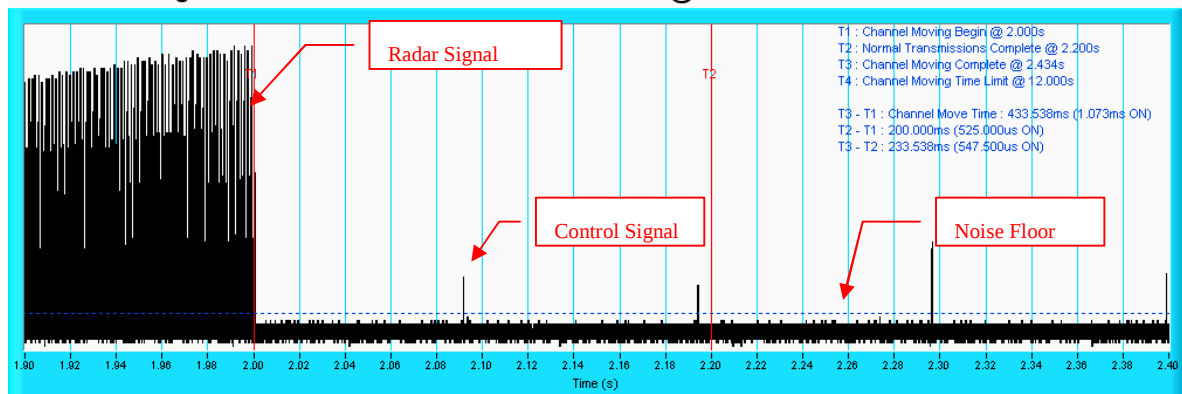
Radar signal 6

Channel Closing Transmission Time & Channel Move Time @ CH100 - 5500MHz



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 @ CH100 - 5500MHz



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	No
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	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	24	1.7u	224.0u	Yes
2	24	3.5u	194.0u	Yes
3	23	4.6u	189.0u	Yes
4	25	3.7u	225.0u	Yes
5	25	4.1u	205.0u	Yes
6	29	3.9u	211.0u	Yes
7	25	1.2u	188.0u	Yes
8	28	1.3u	154.0u	Yes
9	26	3.9u	225.0u	Yes
10	26	4.8u	169.0u	Yes
11	29	4.7u	202.0u	No
12	29	3.8u	156.0u	Yes
13	28	2.7u	223.0u	Yes
14	24	4.7u	229.0u	Yes
15	27	4.0u	218.0u	Yes
16	29	4.3u	196.0u	Yes
17	27	3.2u	182.0u	Yes
18	27	2.8u	199.0u	No
19	28	1.2u	169.0u	Yes
20	24	1.6u	184.0u	Yes
21	24	1.6u	184.0u	Yes
22	26	3.1u	191.0u	Yes
23	29	4.1u	196.0u	Yes
24	28	1.7u	189.0u	Yes
25	26	2.1u	168.0u	Yes
26	29	3.4u	211.0u	Yes
27	27	3.6u	186.0u	Yes
28	27	1.4u	171.0u	Yes
29	24	3.7u	222.0u	Yes
30	28	4.5u	230.0u	Yes
31	29	3.7u	155.0u	Yes
Detection Rate: 93.5 %				

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

Type 3 Radar Statistical Performances				
Trial #	Pulses per Burst	Pulse Width (s)	PRI (s)	Detection
1	17	9.3u	242.0u	Yes
2	16	8.1u	470.0u	Yes
3	17	8.1u	361.0u	Yes
4	16	7.0u	279.0u	Yes
5	17	7.6u	421.0u	No
6	17	6.8u	432.0u	Yes
7	16	9.1u	288.0u	No
8	17	7.7u	443.0u	No
9	18	6.9u	415.0u	Yes
10	16	8.8u	287.0u	Yes
11	16	8.8u	287.0u	Yes
12	17	8.5u	373.0u	No
13	17	7.0u	222.0u	Yes
14	18	9.4u	380.0u	Yes
15	18	8.7u	353.0u	No
16	18	7.2u	233.0u	Yes
17	16	8.3u	405.0u	Yes
18	17	9.9u	439.0u	Yes
19	18	9.0u	206.0u	Yes
20	16	7.5u	382.0u	Yes
21	16	8.8u	364.0u	No
22	18	7.2u	394.0u	Yes
23	17	6.6u	233.0u	No
24	17	7.1u	471.0u	Yes
25	16	8.0u	229.0u	Yes
26	17	6.4u	375.0u	Yes
27	17	9.1u	216.0u	Yes
28	17	7.2u	383.0u	Yes
29	18	6.2u	319.0u	Yes
30	17	9.1u	466.0u	Yes
31	18	6.8u	234.0u	Yes
Detection Rate: 77.4 %				

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

Type 4 Radar Statistical Performances				
Trial #	Pulses per Burst	Pulse Width (s)	PRI (s)	Detection
1	14	14.9u	492.0u	Yes
2	16	12.8u	293.0u	Yes
3	12	19.5u	408.0u	No
4	14	11.6u	251.0u	No
5	13	12.9u	233.0u	Yes
6	14	17.6u	300.0u	No
7	12	17.1u	396.0u	Yes
8	14	17.0u	228.0u	Yes
9	16	17.0u	283.0u	Yes
10	14	15.7u	288.0u	No
11	16	16.9u	276.0u	Yes
12	16	14.0u	446.0u	Yes
13	13	13.8u	471.0u	Yes
14	14	16.9u	281.0u	No
15	12	12.4u	249.0u	Yes
16	15	19.4u	286.0u	Yes
17	15	14.4u	406.0u	Yes
18	14	12.1u	383.0u	Yes
19	13	18.0u	337.0u	Yes
20	14	14.5u	335.0u	Yes
21	14	17.2u	202.0u	Yes
22	13	19.0u	459.0u	Yes
23	15	16.4u	241.0u	Yes
24	13	14.0u	344.0u	No
25	13	16.0u	357.0u	No
26	14	15.6u	237.0u	Yes
27	16	11.9u	291.0u	Yes
28	14	11.6u	253.0u	Yes
29	12	17.3u	236.0u	Yes
30	15	15.4u	450.0u	Yes
Detection Rate: 76.7 %				

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

Type 5 Radar Statistical Performances		
Trial #	Test Signal Name	Detection
1	LP_HT20_Signal_01	Yes
2	LP_HT20_Signal_02	Yes
3	LP_HT20_Signal_03	Yes
4	LP_HT20_Signal_04	Yes
5	LP_HT20_Signal_05	Yes
6	LP_HT20_Signal_06	Yes
7	LP_HT20_Signal_07	Yes
8	LP_HT20_Signal_08	Yes
9	LP_HT20_Signal_09	Yes
10	LP_HT20_Signal_10	Yes
11	LP_HT20_Signal_11	Yes
12	LP_HT20_Signal_12	Yes
13	LP_HT20_Signal_13	Yes
14	LP_HT20_Signal_14	Yes
15	LP_HT20_Signal_15	Yes
16	LP_HT20_Signal_16	Yes
17	LP_HT20_Signal_17	Yes
18	LP_HT20_Signal_18	Yes
19	LP_HT20_Signal_19	Yes
20	LP_HT20_Signal_20	Yes
21	LP_HT20_Signal_21	Yes
22	LP_HT20_Signal_22	Yes
23	LP_HT20_Signal_23	Yes
24	LP_HT20_Signal_24	Yes
25	LP_HT20_Signal_25	Yes
26	LP_HT20_Signal_26	Yes
27	LP_HT20_Signal_27	Yes
28	LP_HT20_Signal_28	Yes
29	LP_HT20_Signal_29	Yes
30	LP_HT20_Signal_30	Yes
		Detection Rate: 100.0 %

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	Yes
3	9	1.0u	333.0u	Yes
4	9	1.0u	333.0u	Yes
5	9	1.0u	333.0u	Yes
6	9	1.0u	333.0u	Yes
7	9	1.0u	333.0u	Yes
8	9	1.0u	333.0u	Yes
9	9	1.0u	333.0u	Yes
10	9	1.0u	333.0u	Yes
11	9	1.0u	333.0u	Yes
12	9	1.0u	333.0u	Yes
13	9	1.0u	333.0u	Yes
14	9	1.0u	333.0u	Yes
15	9	1.0u	333.0u	Yes
16	9	1.0u	333.0u	Yes
17	9	1.0u	333.0u	Yes
18	9	1.0u	333.0u	Yes
19	9	1.0u	333.0u	Yes
20	9	1.0u	333.0u	Yes
21	9	1.0u	333.0u	Yes
22	9	1.0u	333.0u	Yes
23	9	1.0u	333.0u	Yes
24	9	1.0u	333.0u	Yes
25	9	1.0u	333.0u	Yes
26	9	1.0u	333.0u	Yes
27	9	1.0u	333.0u	Yes
28	9	1.0u	333.0u	Yes
29	9	1.0u	333.0u	Yes
30	9	1.0u	333.0u	Yes
Detection Rate: 100.0 %				

802.11n HT20

Type 6 Radar Statistical Performances

Trial #	Hopping Frequency Sequence Name	Detection
1	HOP_FREQ_SEQ_HT20_01	Yes
2	HOP_FREQ_SEQ_HT20_02	Yes
3	HOP_FREQ_SEQ_HT20_03	Yes
4	HOP_FREQ_SEQ_HT20_04	Yes
5	HOP_FREQ_SEQ_HT20_05	Yes
6	HOP_FREQ_SEQ_HT20_06	Yes
7	HOP_FREQ_SEQ_HT20_07	Yes
8	HOP_FREQ_SEQ_HT20_08	Yes
9	HOP_FREQ_SEQ_HT20_09	Yes
10	HOP_FREQ_SEQ_HT20_10	Yes
11	HOP_FREQ_SEQ_HT20_11	Yes
12	HOP_FREQ_SEQ_HT20_12	Yes
13	HOP_FREQ_SEQ_HT20_13	Yes
14	HOP_FREQ_SEQ_HT20_14	Yes
15	HOP_FREQ_SEQ_HT20_15	Yes
16	HOP_FREQ_SEQ_HT20_16	Yes
17	HOP_FREQ_SEQ_HT20_17	Yes
18	HOP_FREQ_SEQ_HT20_18	Yes
19	HOP_FREQ_SEQ_HT20_19	Yes
20	HOP_FREQ_SEQ_HT20_20	Yes
21	HOP_FREQ_SEQ_HT20_21	Yes
22	HOP_FREQ_SEQ_HT20_22	Yes
23	HOP_FREQ_SEQ_HT20_23	Yes
24	HOP_FREQ_SEQ_HT20_24	Yes
25	HOP_FREQ_SEQ_HT20_25	Yes
26	HOP_FREQ_SEQ_HT20_26	Yes
27	HOP_FREQ_SEQ_HT20_27	Yes
28	HOP_FREQ_SEQ_HT20_28	Yes
29	HOP_FREQ_SEQ_HT20_29	No
30	HOP_FREQ_SEQ_HT20_30	Yes
		Detection Rate: 96.7 %

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	No
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	No
9	18	1.0u	1.428m	Yes
10	18	1.0u	1.428m	No
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	No
27	18	1.0u	1.428m	No
28	18	1.0u	1.428m	Yes
29	18	1.0u	1.428m	Yes
30	18	1.0u	1.428m	Yes

Detection Rate: 80.0 %

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

Type 2 Radar Statistical Performances				
Trial #	Pulses per Burst	Pulse Width (s)	PRI (s)	Detection
1	24	1.7u	224.0u	Yes
2	24	3.5u	194.0u	Yes
3	23	4.6u	189.0u	Yes
4	25	3.7u	225.0u	Yes
5	25	4.1u	205.0u	Yes
6	29	3.9u	211.0u	No
7	25	1.2u	188.0u	No
8	28	1.3u	154.0u	Yes
9	26	3.9u	225.0u	Yes
10	26	4.8u	169.0u	Yes
11	29	4.7u	202.0u	Yes
12	29	3.8u	156.0u	Yes
13	28	2.7u	223.0u	Yes
14	24	4.7u	229.0u	Yes
15	27	4.0u	218.0u	No
16	29	4.3u	196.0u	No
17	27	3.2u	182.0u	Yes
18	27	2.8u	199.0u	Yes
19	28	1.2u	169.0u	Yes
20	24	1.6u	184.0u	Yes
21	26	3.1u	191.0u	Yes
22	29	4.1u	196.0u	Yes
23	28	1.7u	189.0u	Yes
24	26	2.1u	168.0u	Yes
25	29	3.4u	211.0u	Yes
26	27	3.6u	186.0u	No
27	27	1.4u	171.0u	No
28	24	3.7u	222.0u	Yes
29	28	4.5u	230.0u	Yes
30	29	3.7u	155.0u	Yes
Detection Rate: 80.0 %				

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

Type 3 Radar Statistical Performances				
Trial #	Pulses per Burst	Pulse Width (s)	PRI (s)	Detection
1	17	9.3u	242.0u	Yes
2	16	8.1u	470.0u	Yes
3	17	8.1u	361.0u	Yes
4	16	7.0u	279.0u	Yes
5	17	7.6u	421.0u	Yes
6	17	6.8u	432.0u	No
7	16	9.1u	288.0u	Yes
8	17	7.7u	443.0u	Yes
9	18	6.9u	415.0u	Yes
10	16	8.8u	287.0u	Yes
11	17	8.5u	373.0u	Yes
12	17	7.0u	222.0u	Yes
13	18	9.4u	380.0u	No
14	18	8.7u	353.0u	Yes
15	18	7.2u	233.0u	Yes
16	16	8.3u	405.0u	Yes
17	17	9.9u	439.0u	Yes
18	18	9.0u	206.0u	Yes
19	16	7.5u	382.0u	Yes
20	16	8.8u	364.0u	Yes
21	18	7.2u	394.0u	Yes
22	17	6.6u	233.0u	Yes
23	17	7.1u	471.0u	Yes
24	16	8.0u	229.0u	Yes
25	17	6.4u	375.0u	Yes
26	17	9.1u	216.0u	No
27	17	7.2u	383.0u	Yes
28	18	6.2u	319.0u	Yes
29	17	9.1u	466.0u	No
30	18	6.8u	234.0u	Yes
Detection Rate: 86.7 %				

**A D T****802.11n HT40****Type 4 Radar Statistical Performances**

Trial #	Pulses per Burst	Pulse Width (s)	PRI (s)	Detection
1	14	14.9u	492.0u	Yes
2	16	12.8u	293.0u	Yes
3	12	19.5u	408.0u	Yes
4	14	11.6u	251.0u	No
5	13	12.9u	233.0u	Yes
6	14	17.6u	300.0u	Yes
7	12	17.1u	396.0u	Yes
8	14	17.0u	228.0u	Yes
9	16	17.0u	283.0u	Yes
10	14	15.7u	288.0u	No
11	16	16.9u	276.0u	Yes
12	16	14.0u	446.0u	No
13	13	13.8u	471.0u	Yes
14	14	16.9u	281.0u	Yes
15	12	12.4u	249.0u	Yes
16	15	19.4u	286.0u	Yes
17	15	14.4u	406.0u	No
18	14	12.1u	383.0u	No
19	13	18.0u	337.0u	Yes
20	14	14.5u	335.0u	Yes
21	14	17.2u	202.0u	No
22	13	19.0u	459.0u	No
23	15	16.4u	241.0u	Yes
24	15	16.4u	241.0u	Yes
25	13	14.0u	344.0u	No
26	13	16.0u	357.0u	Yes
27	14	15.6u	237.0u	Yes
28	16	11.9u	291.0u	Yes
29	14	11.6u	253.0u	Yes
30	12	17.3u	236.0u	Yes
31	15	15.4u	450.0u	Yes

Detection Rate: 74.2 %

**802.11n HT40****Type 5 Radar Statistical Performances**

Trial #	Test Signal Name	Detection
1	LP_HT40_Signal_01	Yes
2	LP_HT40_Signal_02	Yes
3	LP_HT40_Signal_03	Yes
4	LP_HT40_Signal_04	Yes
5	LP_HT40_Signal_05	Yes
6	LP_HT40_Signal_06	Yes
7	LP_HT40_Signal_07	Yes
8	LP_HT40_Signal_08	Yes
9	LP_HT40_Signal_09	Yes
10	LP_HT40_Signal_10	Yes
11	LP_HT40_Signal_11	Yes
12	LP_HT40_Signal_12	Yes
13	LP_HT40_Signal_13	Yes
14	LP_HT40_Signal_14	Yes
15	LP_HT40_Signal_15	Yes
16	LP_HT40_Signal_16	Yes
17	LP_HT40_Signal_17	Yes
18	LP_HT40_Signal_18	Yes
19	LP_HT40_Signal_19	Yes
20	LP_HT40_Signal_20	Yes
21	LP_HT40_Signal_21	Yes
22	LP_HT40_Signal_22	Yes
23	LP_HT40_Signal_23	Yes
24	LP_HT40_Signal_24	Yes
25	LP_HT40_Signal_25	Yes
26	LP_HT40_Signal_26	Yes
27	LP_HT40_Signal_27	Yes
28	LP_HT40_Signal_28	Yes
29	LP_HT40_Signal_29	Yes
30	LP_HT40_Signal_30	Yes
		Detection Rate: 100 %

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	Yes
2	9	1.0u	333.0u	Yes
3	9	1.0u	333.0u	Yes
4	9	1.0u	333.0u	Yes
5	9	1.0u	333.0u	Yes
6	9	1.0u	333.0u	Yes
7	9	1.0u	333.0u	Yes
8	9	1.0u	333.0u	Yes
9	9	1.0u	333.0u	Yes
10	9	1.0u	333.0u	Yes
11	9	1.0u	333.0u	Yes
12	9	1.0u	333.0u	Yes
13	9	1.0u	333.0u	Yes
14	9	1.0u	333.0u	Yes
15	9	1.0u	333.0u	Yes
16	9	1.0u	333.0u	Yes
17	9	1.0u	333.0u	Yes
18	9	1.0u	333.0u	Yes
19	9	1.0u	333.0u	Yes
20	9	1.0u	333.0u	Yes
21	9	1.0u	333.0u	Yes
22	9	1.0u	333.0u	Yes
23	9	1.0u	333.0u	Yes
24	9	1.0u	333.0u	Yes
25	9	1.0u	333.0u	Yes
26	9	1.0u	333.0u	Yes
27	9	1.0u	333.0u	Yes
28	9	1.0u	333.0u	Yes
29	9	1.0u	333.0u	Yes
30	9	1.0u	333.0u	Yes
Detection Rate: 100.0 %				

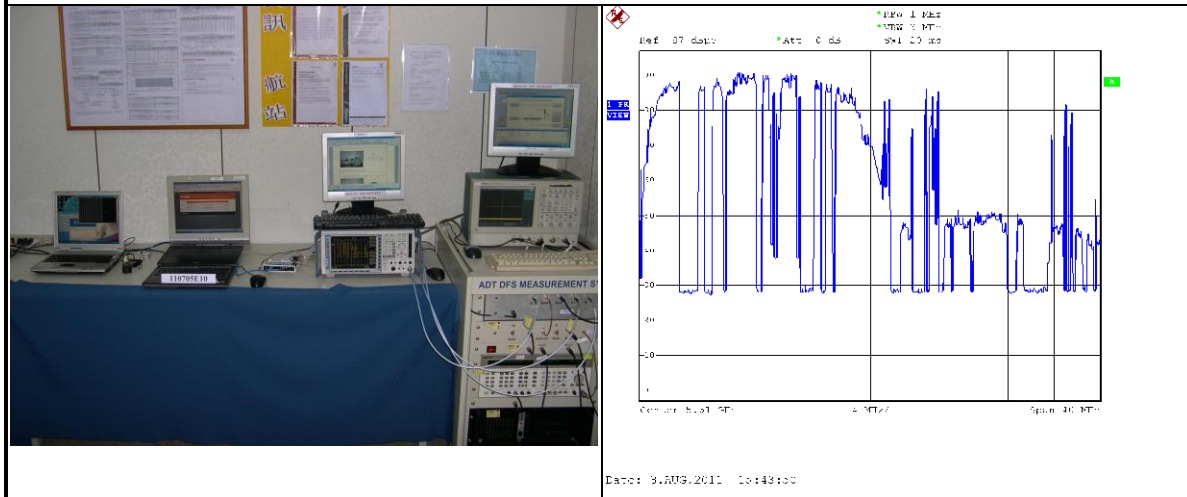
**A D T****802.11n HT40**

Type 6 Radar Statistical Performances		
Trial #	Hopping Frequency Sequence Name	Detection
1	HOP_FREQ_SEQ_HT40_01	Yes
2	HOP_FREQ_SEQ_HT40_02	Yes
3	HOP_FREQ_SEQ_HT40_03	Yes
4	HOP_FREQ_SEQ_HT40_04	Yes
5	HOP_FREQ_SEQ_HT40_05	Yes
6	HOP_FREQ_SEQ_HT40_06	Yes
7	HOP_FREQ_SEQ_HT40_07	Yes
8	HOP_FREQ_SEQ_HT40_08	Yes
9	HOP_FREQ_SEQ_HT40_09	Yes
10	HOP_FREQ_SEQ_HT40_10	Yes
11	HOP_FREQ_SEQ_HT40_11	Yes
12	HOP_FREQ_SEQ_HT40_12	Yes
13	HOP_FREQ_SEQ_HT40_13	Yes
14	HOP_FREQ_SEQ_HT40_14	Yes
15	HOP_FREQ_SEQ_HT40_15	Yes
16	HOP_FREQ_SEQ_HT40_16	Yes
17	HOP_FREQ_SEQ_HT40_17	Yes
18	HOP_FREQ_SEQ_HT40_18	Yes
19	HOP_FREQ_SEQ_HT40_19	Yes
20	HOP_FREQ_SEQ_HT40_20	Yes
21	HOP_FREQ_SEQ_HT40_21	Yes
22	HOP_FREQ_SEQ_HT40_22	Yes
23	HOP_FREQ_SEQ_HT40_23	Yes
24	HOP_FREQ_SEQ_HT40_24	Yes
25	HOP_FREQ_SEQ_HT40_25	Yes
26	HOP_FREQ_SEQ_HT40_26	Yes
27	HOP_FREQ_SEQ_HT40_27	Yes
28	HOP_FREQ_SEQ_HT40_28	Yes
29	HOP_FREQ_SEQ_HT40_29	Yes
30	HOP_FREQ_SEQ_HT40_30	Yes
		Detection Rate: 100.0 %

The Frequency Hopping Radar pattern shown in Annex B.2

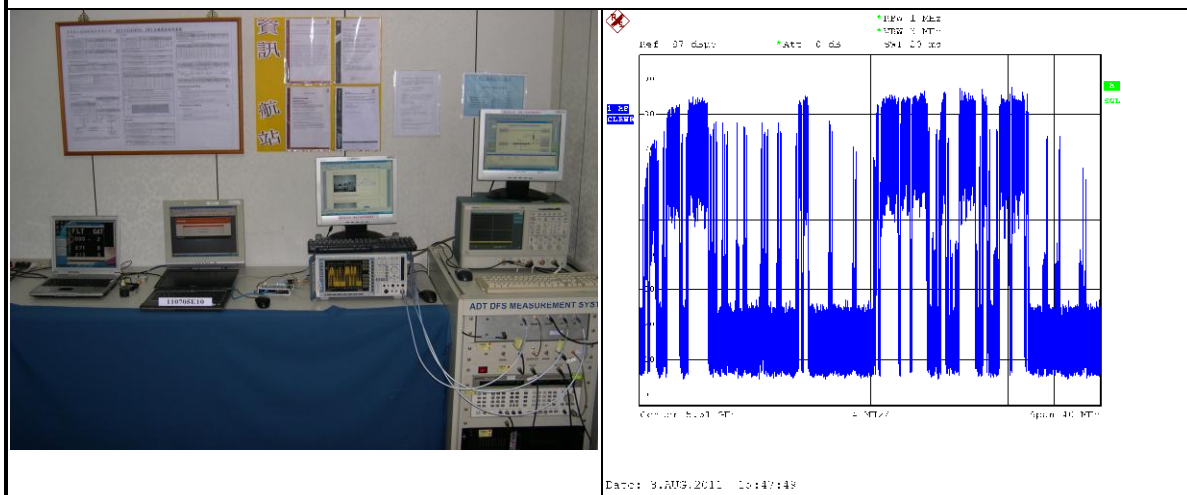
6.2.1.4 NON- OCCUPANCY PERIOD

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



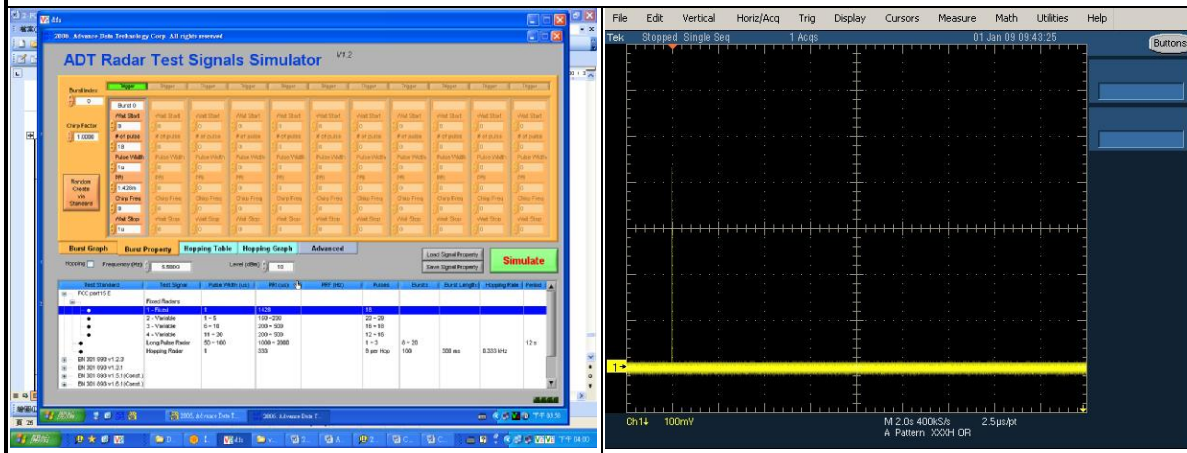
EUT (master) links with Client on 5510MHz

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.



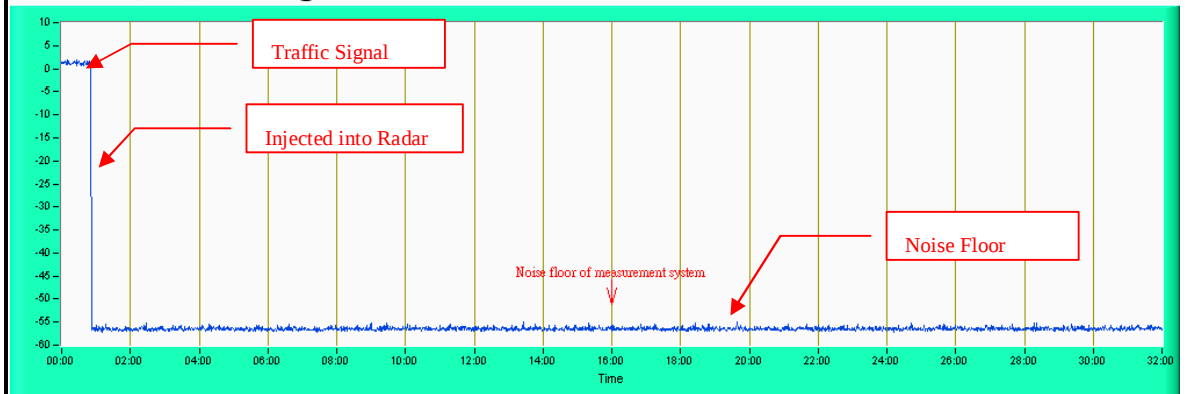
Radar 1 is used to test during DFS testing.

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 @ CH100 - 5500MHz



6.2.1.5 UNIFORM SPREADING

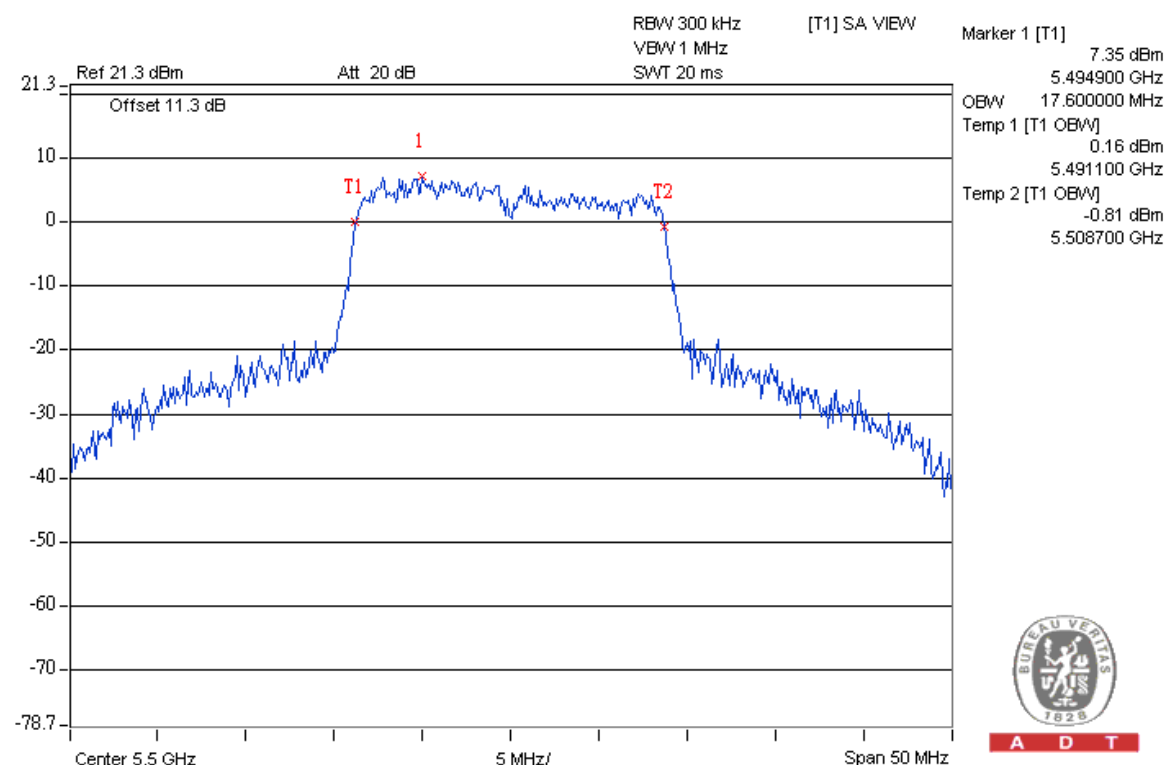
The manufacturer declare:

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

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U-NII 99% Channel bandwidth

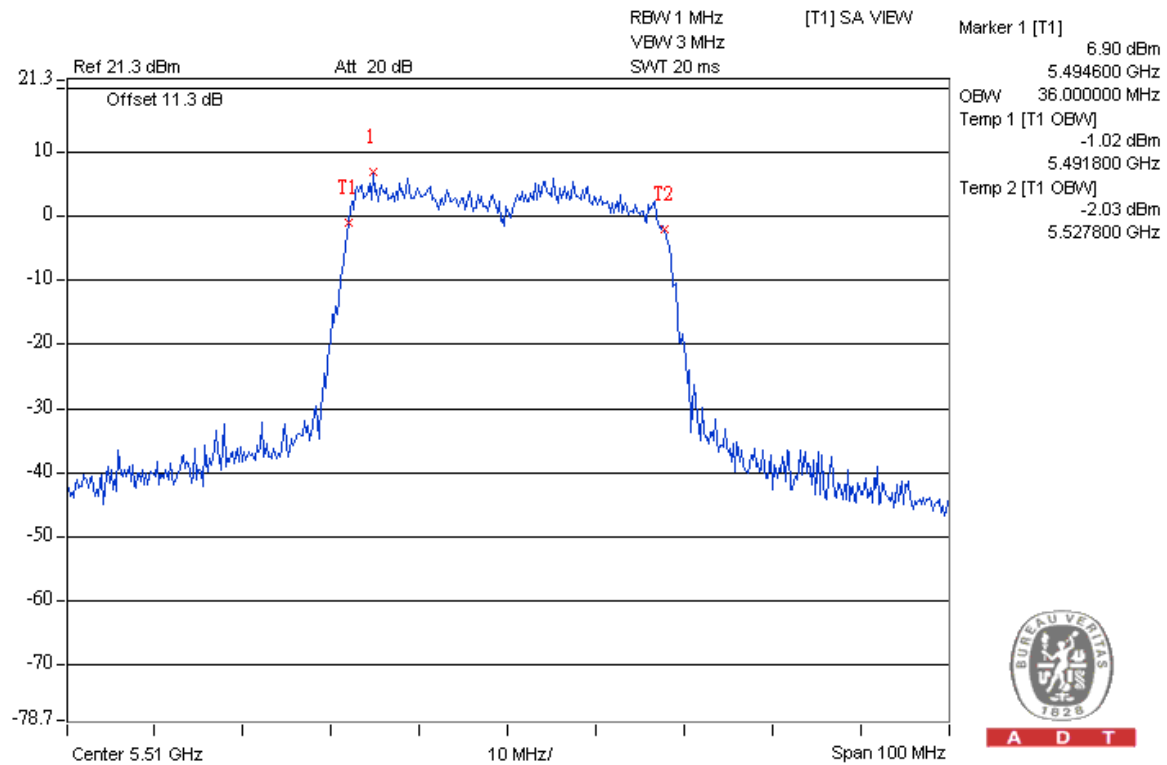
802.11n HT20

Detection Bandwidth Test											
EUT Frequency: 5.500GHz											
EUT 99% Power bandwidth: 17.60MHz											
Detection bandwidth limit (80% of EUT 99% Power bandwidth): 14.08MHz											
Detection Bandwidth (FH - FL): 16.00MHz											
Test Result : PASS											
Radar Frequency (Hz)	Trial Number / Detection										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5.489G	No	No	No	No	No	No	No	No	No	No	0
5.490G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.491G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.492G (FL)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.493G	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	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.508G (FH)	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	No	No	No	No	No	No	No	No	No	No	0



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802.11n HT40



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U-NII 99% Channel bandwidth

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

Detection Bandwidth Test											
EUT Frequency: 5.510GHz											
EUT 99% Power bandwidth: 36.00MHz											
Detection bandwidth limit (80% of EUT 99% Power bandwidth): 28.8MHz											
Detection Bandwidth (FH - FL): 30.00MHz											
Test Result : PASS											
Radar	Trial Number / Detection										Detection Rate (%)
Frequency (Hz)	1	2	3	4	5	6	7	8	9	10	
5.489G	No	No	No	No	No	No	No	No	No	No	0
5.490G	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	90
5.491G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.492G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.493G	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 (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	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.527G	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	90
5.528G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.529G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.530G	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	100
5.531G	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)

Below is a list of Tx power percentage ranges and the corresponding power adjustment our application sends to the driver. To answer the question about the minimum number, the lowest percentage you can set from our UI is 12.5% which maps to a -9dBm adjustment in the driver.

100% = full power (no adjustment)

50%= -3dBm

25%= -6dBm

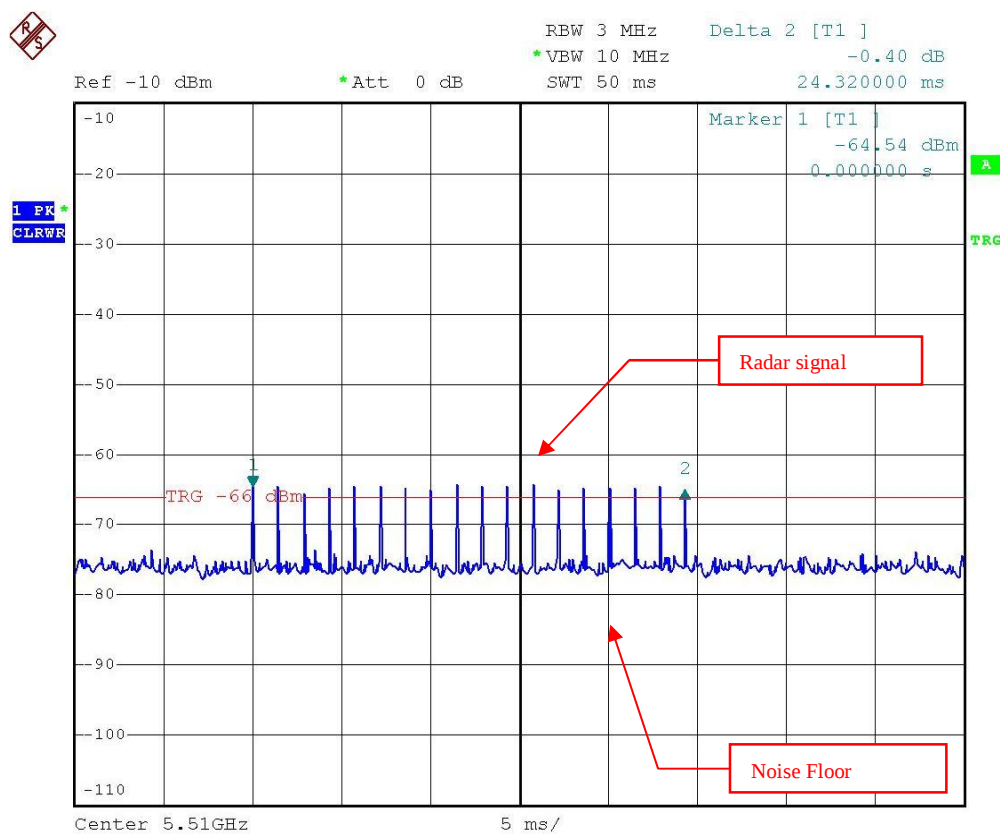
12.5%= -9dBm.

6.2.2. TEST MODE: DEVICE OPERATING IN CLIENT WITHOUT RADAR DETECTION MODE.

Client with injection at the Master. (The radar test signals are injected into the Master Device.

6.2.2.1 DFS DETECTION THRESHOLD

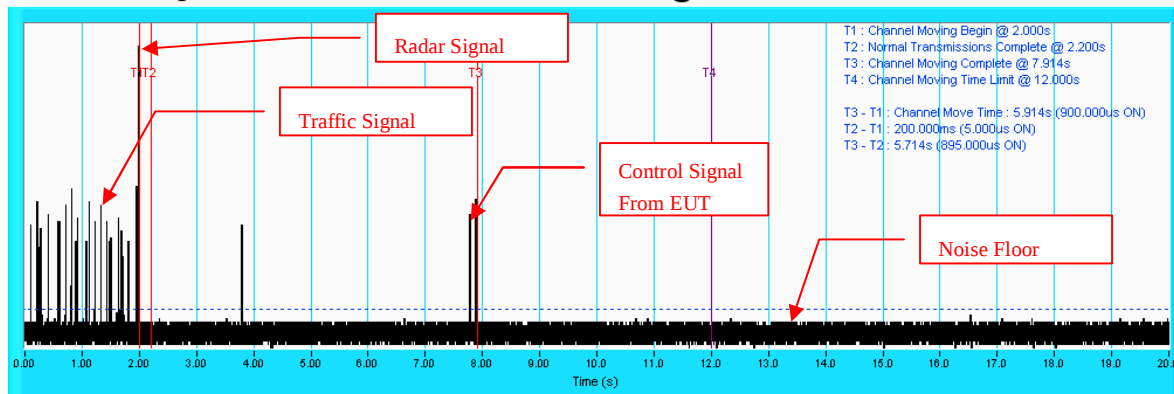
For a detection threshold level of -62dBm and the Master antenna gain is -3.38dBi . The Required detection threshold is -64.38dBm ($= -62 + 1 - 3.38$) dBm . The conducted radar burst level is set to -64.38dBm .



Radar Signal 1

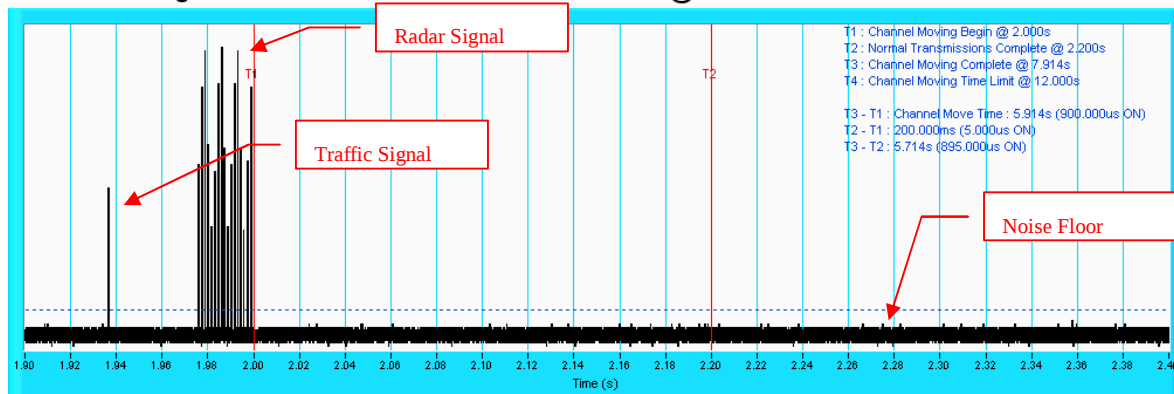
6.2.2.2 CHANNEL CLOSING TRANSMISSION AND CHANNEL MOVE TIME

Channel Closing Transmission Time & Channel Move Time @ CH100 - 5500MHz



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. T4 denotes the 10 second from T1 to observe the aggregate duration of transmissions.

Channel Closing Transmission Time & Channel Move Time @ CH100 - 5500MHz

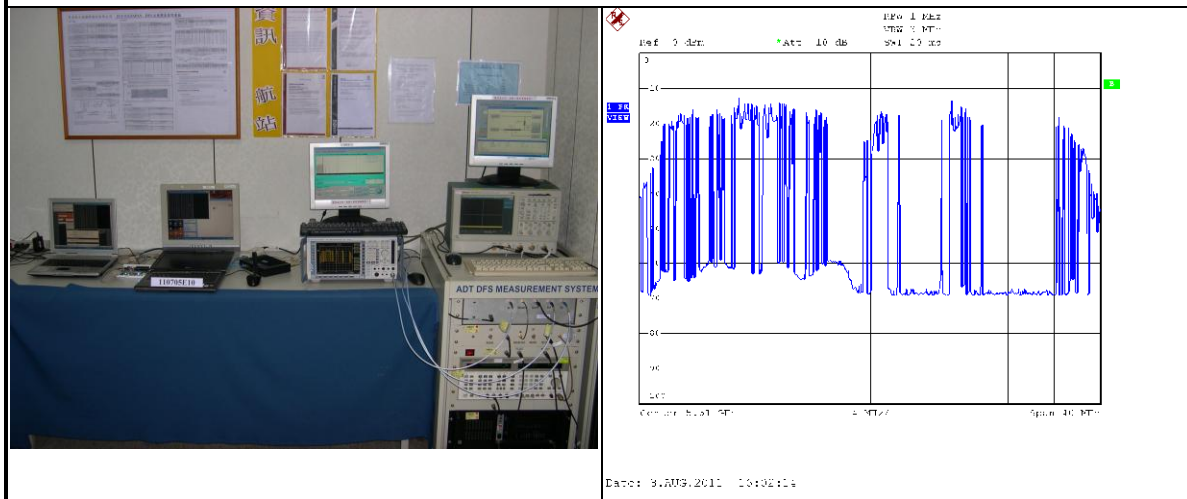


NOTE: An expanded plot for the device vacates the channel in the required 500ms.

6.2.2.3 NON- OCCUPANCY PERIOD

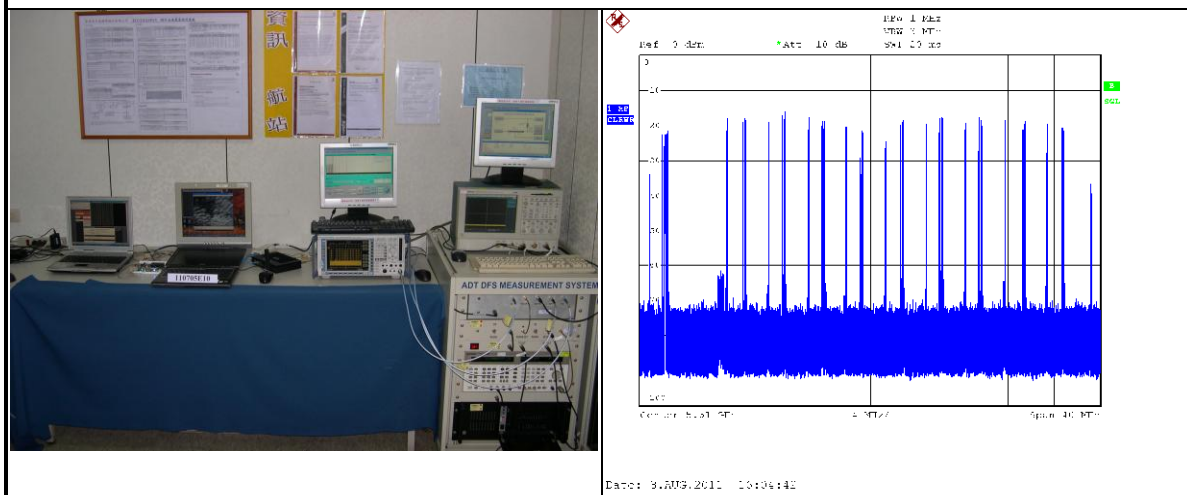
ASSOCIATED TEST

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



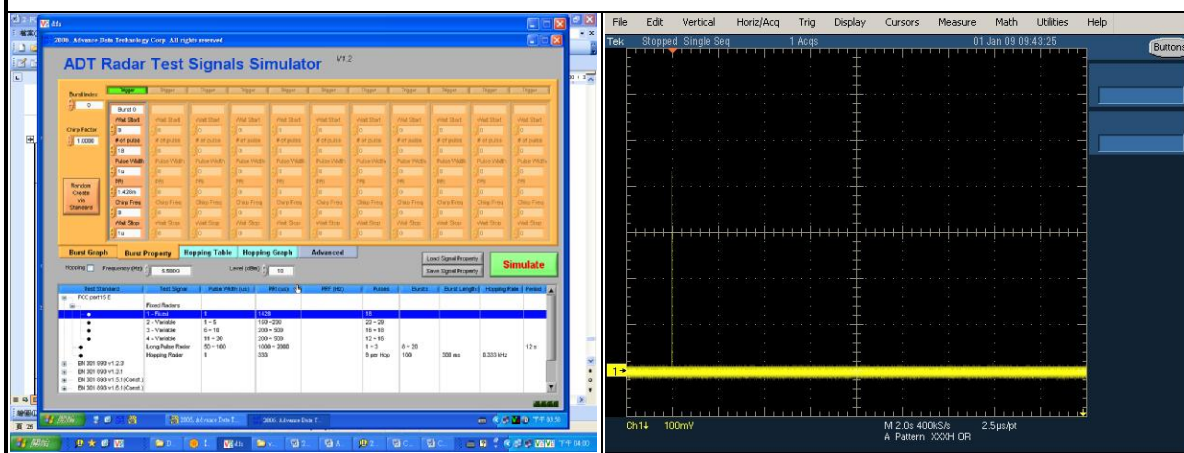
EUT (Client) links with master on 5510MHz

2) The client and DFS-certified master 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.



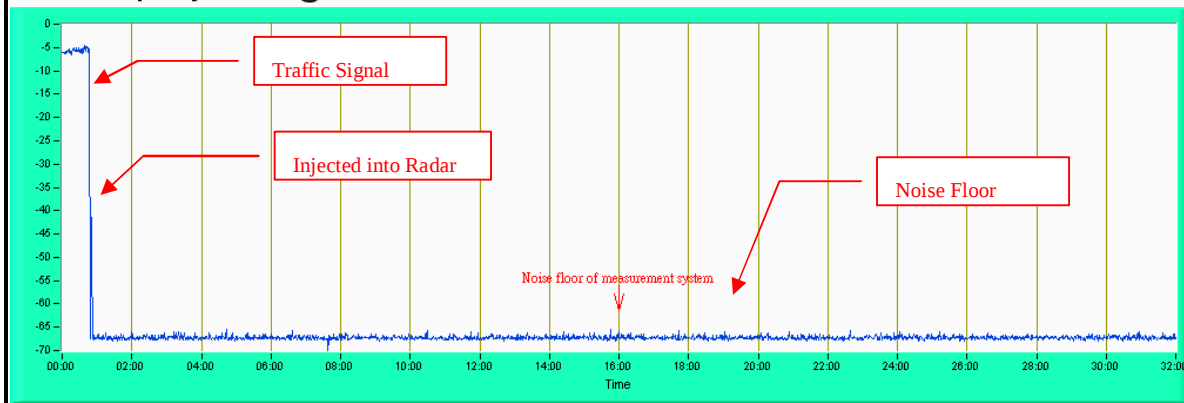
Radar 1 is used to test during DFS testing.

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

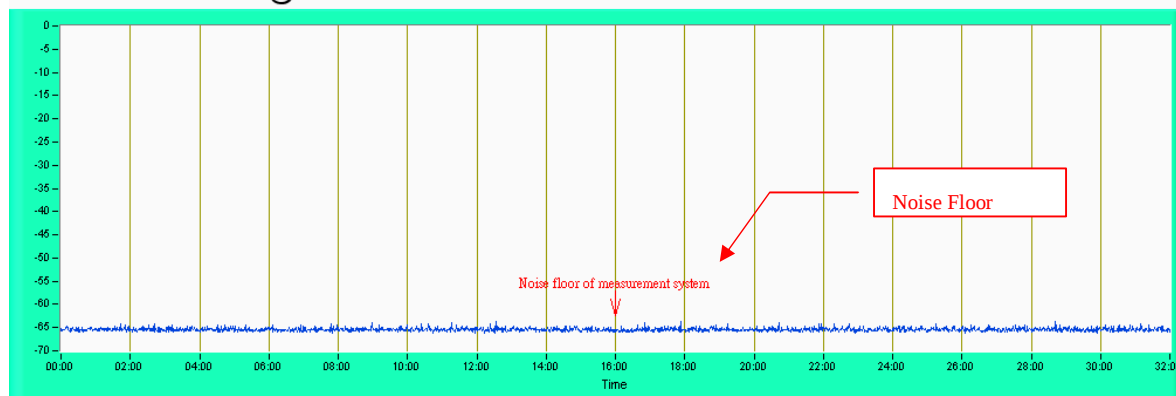


NON-ASSOCIATED TEST

Master was off.

During the 30 minutes observation time, The UUT did not make any transmissions in the DFS band after UUT power up.

Non - Associated Test @ CH102 - 5510MHz



6.2.2.4 NON- CO-CHANNEL TEST

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



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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.

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site:

www.adt.com.tw/index.5.phtml. 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: 886-3-3185050

Email: service.adt@tw.bureauveritas.com

Web Site: www.adt.com.tw

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



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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_HT20_Signal_01						
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	7M	74.2u	1.111m	-	510.7m
2	3	10M	52.9u	1.519m	1.289m	196.0m
3	1	8M	59.8u	-	-	500.4m
4	3	16M	65.6u	1.248m	953.4u	434.1m
5	2	14M	66.3u	1.687m	-	316.6m
6	2	20M	81.4u	1.436m	-	675.5m
7	2	6M	53.5u	1.589m	-	408.4m
8	1	8M	70.6u	-	-	154.2m
9	2	16M	85.6u	986.4u	-	165.7m
10	2	14M	80.0u	1.910m	-	669.4m
11	1	9M	79.2u	-	-	557.0m
12	1	7M	73.3u	-	-	465.3m
13	1	9M	54.4u	-	-	366.3m
14	1	7M	94.5u	-	-	62.01m
15	2	18M	64.0u	1.929m	-	698.0m

Long Pulse Radar Test Signal						
Test Signal Name: LP_HT20_Signal_02						
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	11M	81.4u	1.450m	-	410.8m
2	2	7M	57.7u	1.927m	-	702.2m
3	3	6M	56.3u	1.264m	1.220m	848.9m
4	1	19M	77.6u	-	-	239.2m
5	2	5M	54.2u	1.140m	-	654.3m
6	3	14M	81.7u	1.305m	1.740m	872.5m
7	2	8M	81.8u	1.128m	-	709.8m
8	3	20M	58.0u	1.203m	1.466m	283.8m
9	1	11M	94.6u	-	-	622.7m

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10	3	13M	98.9u	1.226m	949.1u	457.9m
11	3	7M	68.3u	1.227m	1.916m	368.1m
12	3	7M	53.0u	1.128m	1.577m	84.59m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT20_Signal_03

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	6M	52.4u	1.249m	-	527.8m
2	2	11M	81.9u	1.820m	-	206.6m
3	2	17M	69.3u	1.607m	-	101.7m
4	1	9M	87.6u	-	-	586.3m
5	2	6M	76.3u	1.326m	-	346.5m
6	2	9M	70.8u	1.646m	-	385.6m
7	1	19M	70.2u	-	-	384.3m
8	2	14M	50.5u	1.154m	-	99.45m
9	1	19M	86.4u	-	-	571.9m
10	2	18M	57.1u	1.087m	-	518.8m
11	2	10M	88.4u	1.745m	-	578.2m
12	1	16M	50.6u	-	-	184.3m
13	2	7M	93.8u	1.739m	-	607.7m
14	2	15M	86.2u	1.509m	-	266.8m
15	1	18M	96.5u	-	-	268.9m
16	2	16M	95.1u	1.447m	-	566.1m
17	1	16M	88.6u	-	-	40.65m
18	1	11M	72.9u	-	-	14.70m
19	2	17M	65.6u	1.465m	-	83.82m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT20_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	2	16M	59.8u	1.235m	-	840.6m
2	1	16M	55.9u	-	-	620.3m
3	2	7M	82.9u	1.514m	-	351.4m
4	2	12M	73.9u	1.534m	-	425.8m
5	1	7M	50.7u	-	-	109.0m
6	2	12M	55.1u	1.844m	-	666.0m
7	2	16M	77.2u	1.913m	-	729.5m
8	3	9M	60.5u	1.301m	1.891m	620.9m
9	2	11M	66.8u	1.845m	-	476.5m

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10	2	11M	56.8u	1.385m	-	632.1m
11	1	16M	52.5u	-	-	892.4m
12	3	9M	96.1u	1.568m	1.190m	162.4m
13	2	8M	54.2u	1.084m	-	156.4m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT20_Signal_05

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	3	10M	50.7u	953.3u	1.470m	454.1m
2	1	16M	90.3u	-	-	363.5m
3	1	13M	54.0u	-	-	317.2m
4	3	8M	66.0u	947.0u	1.186m	797.5m
5	3	9M	66.5u	1.251m	1.545m	421.1m
6	3	15M	63.3u	1.362m	1.877m	56.99m
7	3	8M	59.2u	1.882m	1.352m	164.1m
8	2	18M	81.7u	1.365m	-	555.6m
9	3	19M	63.5u	1.713m	1.128m	280.1m
10	3	5M	84.5u	1.543m	1.103m	422.0m
11	2	20M	97.4u	1.405m	-	574.6m
12	1	8M	97.0u	-	-	548.1m
13	2	13M	78.8u	1.860m	-	14.69m
14	1	13M	64.9u	-	-	825.1m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT20_Signal_06

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	19M	85.1u	1.472m	-	314.5m
2	2	14M	51.0u	1.283m	-	634.3m
3	3	14M	51.6u	1.851m	1.161m	502.5m
4	2	17M	52.7u	1.663m	-	310.8m
5	1	12M	52.8u	-	-	204.1m
6	2	10M	89.2u	1.378m	-	210.5m
7	2	10M	79.2u	1.852m	-	356.9m
8	2	12M	83.6u	1.705m	-	492.3m
9	1	6M	51.3u	-	-	283.7m
10	1	17M	66.6u	-	-	104.0m
11	2	14M	88.0u	1.010m	-	74.02m
12	2	6M	55.6u	1.120m	-	642.9m
13	3	17M	89.8u	1.722m	1.892m	65.66m

**A D T**

14	2	16M	75.0u	1.541m	-	423.7m
15	2	11M	95.1u	1.855m	-	236.9m
16	1	14M	52.4u	-	-	493.8m
17	2	14M	81.6u	1.007m	-	238.5m
18	2	13M	65.7u	1.873m	-	268.2m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT20_Signal_07

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	12M	87.6u	1.460m	-	357.5m
2	2	19M	88.4u	1.182m	-	182.2m
3	3	18M	53.9u	1.343m	1.702m	486.1m
4	1	19M	96.4u	-	-	318.0m
5	1	17M	61.8u	-	-	808.8m
6	1	13M	68.7u	-	-	549.7m
7	1	15M	88.0u	-	-	291.4m
8	1	5M	98.5u	-	-	527.9m
9	2	12M	67.4u	1.795m	-	730.0m
10	2	7M	86.0u	1.452m	-	374.5m
11	3	16M	87.2u	1.211m	1.564m	56.67m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT20_Signal_08

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	55.1u	1.499m	1.586m	562.9m
2	1	17M	67.0u	-	-	678.7m
3	1	8M	79.5u	-	-	871.6m
4	2	16M	78.6u	1.499m	-	68.08m
5	2	11M	56.2u	1.695m	-	259.3m
6	2	11M	70.5u	1.334m	-	902.5m
7	3	9M	96.3u	1.141m	1.308m	484.9m
8	3	10M	72.5u	978.5u	1.741m	1.317

Long Pulse Radar Test Signal

Test Signal Name: LP_HT20_Signal_09

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)
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1	2	18M	50.6u	1.733m	-	461.9m
2	3	13M	50.2u	957.8u	1.379m	854.4m
3	2	13M	66.0u	1.652m	-	107.3m
4	3	10M	89.8u	1.477m	1.566m	551.6m
5	2	9M	60.3u	1.022m	-	938.6m
6	2	11M	99.1u	1.680m	-	923.8m
7	1	18M	78.8u	-	-	119.0m
8	1	15M	90.8u	-	-	171.5m
9	1	6M	70.6u	-	-	42.39m
10	3	16M	81.9u	1.449m	1.503m	602.3m
11	3	6M	96.4u	1.460m	1.750m	49.67m
12	3	10M	79.8u	1.713m	965.2u	981.5m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT20_Signal_10

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	6M	76.0u	1.291m	-	766.5m
2	1	15M	50.3u	-	-	954.1m
3	2	11M	58.1u	1.512m	-	1.106
4	2	9M	74.4u	984.6u	-	8.432m
5	2	18M	95.0u	994.0u	-	911.4m
6	3	14M	50.9u	989.1u	1.923m	178.9m
7	1	16M	64.4u	-	-	459.9m
8	2	10M	72.7u	1.031m	-	1.309
9	1	15M	71.4u	-	-	1.069

Long Pulse Radar Test Signal

Test Signal Name: LP_HT20_Signal_11

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	3	12M	50.9u	1.019m	1.184m	402.3m
2	3	7M	64.6u	1.116m	1.265m	49.63m
3	2	18M	58.9u	1.544m	-	44.34m
4	2	11M	99.3u	1.551m	-	575.0m
5	2	10M	92.9u	1.557m	-	90.51m
6	2	7M	92.1u	1.450m	-	17.41m
7	3	5M	73.5u	1.520m	1.731m	86.30m
8	1	16M	79.1u	-	-	278.3m
9	1	12M	67.2u	-	-	596.3m
10	1	19M	62.2u	-	-	304.2m

**A D T**

11	3	15M	95.0u	1.638m	916.0u	152.8m
12	1	17M	87.0u	-	-	24.62m
13	2	11M	77.2u	1.449m	-	147.8m
14	2	7M	81.9u	1.202m	-	185.3m
15	2	17M	57.0u	1.900m	-	329.3m
16	3	15M	66.2u	1.086m	1.305m	141.8m
17	1	17M	87.5u	-	-	585.6m
18	3	19M	69.6u	1.325m	1.894m	20.68m
19	2	16M	81.0u	1.403m	-	142.9m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT20_Signal_12

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	3	7M	58.8u	1.041m	1.111m	84.28m
2	2	18M	58.5u	1.463m	-	348.5m
3	1	6M	60.7u	-	-	570.4m
4	3	9M	69.3u	1.315m	1.164m	509.5m
5	3	10M	93.1u	1.351m	1.615m	231.9m
6	2	17M	65.0u	1.110m	-	22.46m
7	2	13M	74.1u	1.003m	-	466.2m
8	2	15M	83.3u	1.410m	-	318.2m
9	2	11M	64.9u	1.802m	-	70.70m
10	1	19M	68.1u	-	-	619.7m
11	2	13M	92.5u	1.248m	-	616.2m
12	2	15M	78.4u	1.282m	-	242.8m
13	2	17M	98.6u	1.469m	-	303.6m
14	3	20M	92.6u	995.4u	1.338m	14.07m
15	2	5M	93.8u	1.329m	-	603.2m
16	2	14M	80.1u	1.762m	-	459.2m
17	2	10M	65.6u	1.155m	-	313.9m
18	1	13M	94.9u	-	-	452.2m
19	3	17M	71.0u	1.832m	1.112m	292.0m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT20_Signal_13

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	2	5M	99.6u	1.514m	-	459.8m
2	2	16M	93.8u	1.223m	-	307.3m
3	3	5M	86.9u	1.390m	1.543m	117.0m



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4	1	13M	81.3u	-	-	485.4m
5	3	13M	80.4u	1.506m	1.452m	401.8m
6	3	14M	66.5u	1.783m	1.288m	328.3m
7	1	18M	72.5u	-	-	276.3m
8	3	7M	70.3u	1.167m	941.7u	56.03m
9	3	19M	74.0u	1.636m	1.583m	366.8m
10	1	12M	59.3u	-	-	452.5m
11	2	14M	59.7u	1.588m	-	548.9m
12	2	13M	60.1u	1.401m	-	262.1m
13	3	14M	65.8u	1.755m	1.582m	145.7m
14	2	18M	96.3u	1.696m	-	626.4m
15	2	5M	60.3u	1.108m	-	155.1m
16	2	6M	76.6u	1.072m	-	191.4m
17	3	6M	82.1u	1.642m	1.128m	170.4m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT20_Signal_14

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	15M	93.7u	1.098m	-	9.066m
2	3	18M	98.5u	1.056m	1.824m	571.0m
3	1	18M	95.8u	-	-	641.5m
4	2	10M	76.8u	1.235m	-	1.167
5	1	18M	91.0u	-	-	405.1m
6	2	17M	96.2u	1.556m	-	1.329
7	3	18M	55.0u	1.514m	1.722m	346.8m
8	2	13M	96.0u	1.760m	-	824.4m
9	2	18M	52.1u	1.282m	-	494.8m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT20_Signal_15

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	12M	87.1u	1.114m	-	1.084
2	2	6M	98.3u	1.074m	-	377.8m
3	3	13M	79.3u	1.686m	1.095m	672.5m
4	1	5M	91.9u	-	-	106.2m
5	1	17M	93.3u	-	-	489.2m
6	2	18M	83.1u	1.815m	-	431.2m
7	2	19M	50.8u	1.583m	-	766.8m
8	2	9M	68.6u	1.884m	-	948.5m



A D T

9	1	15M	99.4u	-	-	787.0m
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Long Pulse Radar Test Signal

Test Signal Name: LP_HT20_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	1	12M	78.7u	-	-	53.68m
2	1	10M	79.6u	-	-	791.5m
3	2	6M	54.8u	1.806m	-	490.9m
4	2	13M	85.4u	1.444m	-	240.4m
5	3	14M	95.5u	1.158m	1.391m	292.9m
6	3	8M	91.4u	1.304m	1.597m	651.2m
7	2	11M	91.7u	1.099m	-	431.6m
8	3	17M	87.0u	1.614m	970.0u	40.85m
9	1	7M	54.0u	-	-	145.8m
10	2	20M	54.7u	1.880m	-	603.4m
11	3	19M	54.2u	1.518m	1.371m	957.7m
12	1	9M	82.7u	-	-	976.9m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT20_Signal_17

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	12M	59.2u	1.685m	1.753m	373.5m
2	2	17M	73.0u	1.821m	-	566.7m
3	2	15M	58.8u	1.449m	-	90.41m
4	3	12M	67.7u	940.3u	1.877m	510.2m
5	2	9M	83.7u	1.621m	-	127.0m
6	1	20M	76.7u	-	-	587.4m
7	2	9M	71.1u	1.582m	-	582.4m
8	3	18M	73.5u	1.775m	988.5u	595.4m
9	2	7M	66.7u	1.215m	-	406.8m
10	3	19M	52.0u	1.541m	1.045m	30.72m
11	3	9M	89.1u	1.777m	1.838m	260.0m
12	1	10M	92.4u	-	-	365.1m
13	2	17M	95.7u	1.779m	-	214.2m
14	2	13M	91.4u	1.221m	-	425.9m
15	1	9M	50.8u	-	-	335.8m
16	2	9M	55.2u	1.435m	-	30.30m
17	3	16M	80.9u	1.157m	1.605m	529.2m
18	2	10M	69.1u	1.726m	-	36.26m



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP_HT20_Signal_18

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	2	17M	94.2u	1.823m	-	616.5m
2	1	16M	83.2u	-	-	1.398
3	1	12M	64.5u	-	-	411.2m
4	3	8M	63.6u	1.371m	1.205m	626.9m
5	2	19M	65.6u	1.155m	-	507.3m
6	2	13M	55.4u	1.229m	-	482.3m
7	3	14M	91.7u	1.272m	1.582m	1.494
8	2	17M	55.8u	1.134m	-	339.2m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT20_Signal_19

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	19M	74.1u	1.199m	1.505m	537.1m
2	1	5M	55.1u	-	-	484.1m
3	2	19M	93.7u	1.845m	-	335.6m
4	2	12M	84.0u	1.490m	-	843.9m
5	3	8M	96.9u	1.357m	1.644m	398.5m
6	1	10M	62.8u	-	-	310.1m
7	2	13M	59.8u	1.214m	-	901.8m
8	3	10M	73.7u	1.086m	1.383m	475.2m
9	2	9M	61.5u	1.246m	-	85.23m
10	3	15M	81.9u	1.839m	1.230m	1.016
11	2	7M	87.8u	1.616m	-	473.8m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT20_Signal_20

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	8M	61.7u	-	-	289.4m
2	2	8M	82.8u	1.115m	-	903.5m
3	3	19M	87.0u	1.710m	1.425m	605.0m
4	1	10M	74.3u	-	-	303.8m
5	3	9M	85.8u	1.326m	1.450m	399.3m



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6	2	17M	75.6u	1.464m	-	267.1m
7	2	18M	67.2u	1.622m	-	183.4m
8	1	11M	95.2u	-	-	1.237
9	2	7M	86.0u	1.680m	-	412.9m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT20_Signal_21

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	13M	58.7u	1.682m	-	435.7m
2	2	8M	95.4u	1.424m	-	250.1m
3	2	15M	67.1u	1.485m	-	605.2m
4	2	20M	73.1u	1.785m	-	323.2m
5	3	17M	75.1u	1.034m	1.346m	283.4m
6	1	6M	59.6u	-	-	576.8m
7	3	10M	80.9u	941.1u	993.1u	509.1m
8	2	18M	88.7u	988.3u	-	451.8m
9	3	8M	79.4u	921.6u	964.6u	47.31m
10	3	7M	82.2u	1.387m	939.8u	3.334m
11	1	19M	99.1u	-	-	250.1m
12	3	15M	61.6u	1.081m	1.007m	435.8m
13	1	11M	74.2u	-	-	472.3m
14	3	15M	77.4u	1.467m	1.457m	60.77m
15	1	10M	86.1u	-	-	33.50m
16	1	5M	84.7u	-	-	46.90m
17	3	19M	56.4u	1.828m	1.936m	431.1m
18	3	10M	89.2u	1.426m	1.044m	445.9m
19	1	12M	89.2u	-	-	490.6m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT20_Signal_22

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	19M	92.5u	1.186m	1.287m	333.5m
2	2	18M	96.7u	1.185m	-	483.6m
3	2	12M	64.1u	1.717m	-	618.7m
4	2	6M	85.7u	1.802m	-	71.96m
5	2	8M	88.9u	985.1u	-	584.9m
6	3	7M	53.5u	1.326m	1.686m	652.6m
7	3	6M	85.6u	1.487m	1.424m	46.20m
8	2	16M	76.3u	1.721m	-	78.03m



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9	1	13M	69.6u	-	-	198.7m
10	2	17M	76.2u	1.065m	-	525.2m
11	2	13M	76.9u	1.820m	-	622.5m
12	1	19M	63.1u	-	-	64.49m
13	3	6M	93.5u	1.434m	934.5u	6.024m
14	2	6M	95.8u	1.011m	-	12.52m
15	2	18M	80.9u	1.852m	-	144.6m
16	2	10M	71.3u	1.402m	-	335.3m
17	2	7M	55.0u	1.249m	-	232.8m
18	2	17M	84.2u	1.012m	-	427.1m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT20_Signal_23

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	87.2u	1.533m	-	212.8m
2	2	8M	67.1u	1.293m	-	398.4m
3	1	7M	98.7u	-	-	115.5m
4	1	13M	60.4u	-	-	118.8m
5	2	14M	78.0u	948.0u	-	74.38m
6	2	7M	96.1u	1.712m	-	261.0m
7	1	10M	93.7u	-	-	255.8m
8	2	14M	79.6u	1.323m	-	221.3m
9	2	19M	61.7u	1.133m	-	437.9m
10	2	18M	59.9u	985.1u	-	281.9m
11	2	17M	55.1u	1.459m	-	474.8m
12	3	16M	74.8u	1.318m	1.829m	367.0m
13	1	6M	64.8u	-	-	426.1m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT20_Signal_24

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	17M	64.7u	1.103m	1.304m	307.8m
2	1	14M	63.0u	-	-	245.2m
3	1	8M	53.4u	-	-	458.6m
4	2	18M	99.1u	1.789m	-	656.6m
5	2	8M	95.1u	931.9u	-	1.119
6	2	8M	55.9u	1.501m	-	145.1m
7	3	10M	55.4u	986.6u	1.911m	1.098
8	2	15M	67.9u	1.282m	-	147.4m



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9	2	6M	75.8u	1.852m	-	1.115
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Long Pulse Radar Test Signal

Test Signal Name: LP_HT20_Signal_25

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	5M	59.9u	1.581m	-	138.9m
2	1	9M	76.6u	-	-	591.4m
3	2	16M	88.7u	1.407m	-	577.6m
4	1	7M	54.0u	-	-	764.1m
5	2	7M	54.9u	970.1u	-	325.2m
6	1	7M	73.9u	-	-	726.6m
7	2	11M	76.0u	937.0u	-	336.3m
8	1	10M	51.5u	-	-	362.1m
9	2	13M	64.4u	1.761m	-	685.2m
10	3	12M	78.9u	1.561m	1.431m	115.0m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT20_Signal_26

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	3	12M	72.7u	1.078m	1.846m	185.3m
2	1	17M	68.4u	-	-	606.6m
3	2	7M	59.5u	1.610m	-	627.1m
4	1	15M	62.0u	-	-	289.1m
5	1	13M	84.4u	-	-	386.6m
6	1	18M	93.6u	-	-	531.8m
7	1	15M	96.7u	-	-	130.3m
8	2	16M	84.3u	1.116m	-	296.8m
9	3	15M	98.9u	1.489m	1.056m	491.9m
10	2	18M	64.8u	1.879m	-	138.8m
11	2	16M	86.8u	1.051m	-	511.6m
12	1	6M	65.6u	-	-	145.1m
13	3	14M	55.3u	1.911m	1.468m	74.86m
14	1	15M	75.9u	-	-	275.7m
15	3	20M	65.5u	1.339m	1.511m	1.724m
16	3	17M	58.5u	1.808m	1.571m	84.17m
17	1	12M	61.5u	-	-	323.5m
18	2	15M	93.7u	959.3u	-	222.7m
19	1	16M	88.2u	-	-	224.4m



A D T

Long Pulse Radar Test Signal

Test Signal Name: LP_HT20_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	3	10M	60.4u	1.899m	1.260m	659.4m
2	2	11M	70.1u	1.633m	-	588.3m
3	3	12M	53.1u	1.281m	1.593m	1.157
4	3	11M	93.9u	1.264m	1.876m	170.2m
5	2	16M	69.8u	1.260m	-	100.2m
6	3	16M	93.4u	1.784m	1.669m	304.8m
7	1	10M	99.4u	-	-	1.266
8	2	15M	83.3u	1.191m	-	908.0m
9	3	14M	64.4u	973.6u	1.402m	124.1m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT20_Signal_28

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	6M	69.4u	1.348m	1.327m	367.9m
2	2	13M	53.1u	1.342m	-	851.3m
3	2	9M	95.8u	1.755m	-	409.0m
4	2	19M	78.7u	1.181m	-	296.1m
5	1	10M	60.8u	-	-	733.3m
6	2	17M	59.2u	1.844m	-	864.6m
7	2	8M	90.1u	1.815m	-	976.2m
8	3	8M	54.7u	1.617m	1.751m	612.6m
9	2	5M	51.8u	996.2u	-	842.4m
10	2	17M	74.6u	1.095m	-	762.1m
11	2	6M	56.7u	1.500m	-	932.6m
12	3	14M	54.2u	1.773m	1.383m	745.5m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT20_Signal_29

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	12M	60.5u	1.850m	1.509m	601.2m
2	2	12M	97.0u	1.888m	-	283.7m
3	1	12M	72.4u	-	-	620.8m
4	3	7M	95.3u	1.241m	1.439m	539.4m



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5	2	15M	63.5u	961.5u	-	82.90m
6	1	16M	53.7u	-	-	339.2m
7	2	18M	91.1u	1.532m	-	770.9m
8	2	17M	68.9u	1.774m	-	772.0m
9	2	14M	67.6u	1.776m	-	807.6m
10	2	7M	75.8u	1.450m	-	786.6m
11	2	14M	92.9u	1.022m	-	335.0m
12	1	18M	53.7u	-	-	662.6m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT20_Signal_30

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	19M	63.1u	987.9u	-	1.068
2	2	9M	56.1u	1.185m	-	738.8m
3	2	6M	90.3u	1.731m	-	965.7m
4	2	12M	75.6u	1.508m	-	647.0m
5	3	15M	74.5u	1.231m	1.711m	177.0m
6	3	19M	79.8u	1.002m	1.739m	798.4m
7	2	16M	68.3u	1.353m	-	509.8m
8	1	7M	65.5u	-	-	444.9m
9	3	7M	72.7u	1.152m	1.280m	804.0m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT40_Signal_01

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	7M	74.2u	1.111m	-	510.7m
2	3	10M	52.9u	1.519m	1.289m	196.0m
3	1	8M	59.8u	-	-	500.4m
4	3	16M	65.6u	1.248m	953.4u	434.1m
5	2	14M	66.3u	1.687m	-	316.6m
6	2	20M	81.4u	1.436m	-	675.5m
7	2	6M	53.5u	1.589m	-	408.4m
8	1	8M	70.6u	-	-	154.2m
9	2	16M	85.6u	986.4u	-	165.7m
10	2	14M	80.0u	1.910m	-	669.4m
11	1	9M	79.2u	-	-	557.0m
12	1	7M	73.3u	-	-	465.3m
13	1	9M	54.4u	-	-	366.3m



A D T

14	1	7M	94.5u	-	-	62.01m
15	2	18M	64.0u	1.929m	-	698.0m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT40_Signal_02

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	11M	81.4u	1.450m	-	410.8m
2	2	7M	57.7u	1.927m	-	702.2m
3	3	6M	56.3u	1.264m	1.220m	848.9m
4	1	19M	77.6u	-	-	239.2m
5	2	5M	54.2u	1.140m	-	654.3m
6	3	14M	81.7u	1.305m	1.740m	872.5m
7	2	8M	81.8u	1.128m	-	709.8m
8	3	20M	58.0u	1.203m	1.466m	283.8m
9	1	11M	94.6u	-	-	622.7m
10	3	13M	98.9u	1.226m	949.1u	457.9m
11	3	7M	68.3u	1.227m	1.916m	368.1m
12	3	7M	53.0u	1.128m	1.577m	84.59m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT40_Signal_03

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	6M	52.4u	1.249m	-	527.8m
2	2	11M	81.9u	1.820m	-	206.6m
3	2	17M	69.3u	1.607m	-	101.7m
4	1	9M	87.6u	-	-	586.3m
5	2	6M	76.3u	1.326m	-	346.5m
6	2	9M	70.8u	1.646m	-	385.6m
7	1	19M	70.2u	-	-	384.3m
8	2	14M	50.5u	1.154m	-	99.45m
9	1	19M	86.4u	-	-	571.9m
10	2	18M	57.1u	1.087m	-	518.8m
11	2	10M	88.4u	1.745m	-	578.2m
12	1	16M	50.6u	-	-	184.3m
13	2	7M	93.8u	1.739m	-	607.7m
14	2	15M	86.2u	1.509m	-	266.8m
15	1	18M	96.5u	-	-	268.9m
16	2	16M	95.1u	1.447m	-	566.1m
17	1	16M	88.6u	-	-	40.65m



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18	1	11M	72.9u	-	-	14.70m
19	2	17M	65.6u	1.465m	-	83.82m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT40_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	2	16M	59.8u	1.235m	-	840.6m
2	1	16M	55.9u	-	-	620.3m
3	2	7M	82.9u	1.514m	-	351.4m
4	2	12M	73.9u	1.534m	-	425.8m
5	1	7M	50.7u	-	-	109.0m
6	2	12M	55.1u	1.844m	-	666.0m
7	2	16M	77.2u	1.913m	-	729.5m
8	3	9M	60.5u	1.301m	1.891m	620.9m
9	2	11M	66.8u	1.845m	-	476.5m
10	2	11M	56.8u	1.385m	-	632.1m
11	1	16M	52.5u	-	-	892.4m
12	3	9M	96.1u	1.568m	1.190m	162.4m
13	2	8M	54.2u	1.084m	-	156.4m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT40_Signal_05

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	3	10M	50.7u	953.3u	1.470m	454.1m
2	1	16M	90.3u	-	-	363.5m
3	1	13M	54.0u	-	-	317.2m
4	3	8M	66.0u	947.0u	1.186m	797.5m
5	3	9M	66.5u	1.251m	1.545m	421.1m
6	3	15M	63.3u	1.362m	1.877m	56.99m
7	3	8M	59.2u	1.882m	1.352m	164.1m
8	2	18M	81.7u	1.365m	-	555.6m
9	3	19M	63.5u	1.713m	1.128m	280.1m
10	3	5M	84.5u	1.543m	1.103m	422.0m
11	2	20M	97.4u	1.405m	-	574.6m
12	1	8M	97.0u	-	-	548.1m
13	2	13M	78.8u	1.860m	-	14.69m
14	1	13M	64.9u	-	-	825.1m

Long Pulse Radar Test Signal



A D T

Test Signal Name: LP_HT40_Signal_06

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	19M	85.1u	1.472m	-	314.5m
2	2	14M	51.0u	1.283m	-	634.3m
3	3	14M	51.6u	1.851m	1.161m	502.5m
4	2	17M	52.7u	1.663m	-	310.8m
5	1	12M	52.8u	-	-	204.1m
6	2	10M	89.2u	1.378m	-	210.5m
7	2	10M	79.2u	1.852m	-	356.9m
8	2	12M	83.6u	1.705m	-	492.3m
9	1	6M	51.3u	-	-	283.7m
10	1	17M	66.6u	-	-	104.0m
11	2	14M	88.0u	1.010m	-	74.02m
12	2	6M	55.6u	1.120m	-	642.9m
13	3	17M	89.8u	1.722m	1.892m	65.66m
14	2	16M	75.0u	1.541m	-	423.7m
15	2	11M	95.1u	1.855m	-	236.9m
16	1	14M	52.4u	-	-	493.8m
17	2	14M	81.6u	1.007m	-	238.5m
18	2	13M	65.7u	1.873m	-	268.2m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT40_Signal_07

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	12M	87.6u	1.460m	-	357.5m
2	2	19M	88.4u	1.182m	-	182.2m
3	3	18M	53.9u	1.343m	1.702m	486.1m
4	1	19M	96.4u	-	-	318.0m
5	1	17M	61.8u	-	-	808.8m
6	1	13M	68.7u	-	-	549.7m
7	1	15M	88.0u	-	-	291.4m
8	1	5M	98.5u	-	-	527.9m
9	2	12M	67.4u	1.795m	-	730.0m
10	2	7M	86.0u	1.452m	-	374.5m
11	3	16M	87.2u	1.211m	1.564m	56.67m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT40_Signal_08

Number of Bursts in Trial: 8



A D T

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	55.1u	1.499m	1.586m	562.9m
2	1	17M	67.0u	-	-	678.7m
3	1	8M	79.5u	-	-	871.6m
4	2	16M	78.6u	1.499m	-	68.08m
5	2	11M	56.2u	1.695m	-	259.3m
6	2	11M	70.5u	1.334m	-	902.5m
7	3	9M	96.3u	1.141m	1.308m	484.9m
8	3	10M	72.5u	978.5u	1.741m	1.317

Long Pulse Radar Test Signal

Test Signal Name: LP_HT40_Signal_09

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	18M	50.6u	1.733m	-	461.9m
2	3	13M	50.2u	957.8u	1.379m	854.4m
3	2	13M	66.0u	1.652m	-	107.3m
4	3	10M	89.8u	1.477m	1.566m	551.6m
5	2	9M	60.3u	1.022m	-	938.6m
6	2	11M	99.1u	1.680m	-	923.8m
7	1	18M	78.8u	-	-	119.0m
8	1	15M	90.8u	-	-	171.5m
9	1	6M	70.6u	-	-	42.39m
10	3	16M	81.9u	1.449m	1.503m	602.3m
11	3	6M	96.4u	1.460m	1.750m	49.67m
12	3	10M	79.8u	1.713m	965.2u	981.5m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT40_Signal_10

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	6M	76.0u	1.291m	-	766.5m
2	1	15M	50.3u	-	-	954.1m
3	2	11M	58.1u	1.512m	-	1.106
4	2	9M	74.4u	984.6u	-	8.432m
5	2	18M	95.0u	994.0u	-	911.4m
6	3	14M	50.9u	989.1u	1.923m	178.9m
7	1	16M	64.4u	-	-	459.9m
8	2	10M	72.7u	1.031m	-	1.309



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9	1	15M	71.4u	-	-	1.069
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Long Pulse Radar Test Signal

Test Signal Name: LP_HT40_Signal_11

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	3	12M	50.9u	1.019m	1.184m	402.3m
2	3	7M	64.6u	1.116m	1.265m	49.63m
3	2	18M	58.9u	1.544m	-	44.34m
4	2	11M	99.3u	1.551m	-	575.0m
5	2	10M	92.9u	1.557m	-	90.51m
6	2	7M	92.1u	1.450m	-	17.41m
7	3	5M	73.5u	1.520m	1.731m	86.30m
8	1	16M	79.1u	-	-	278.3m
9	1	12M	67.2u	-	-	596.3m
10	1	19M	62.2u	-	-	304.2m
11	3	15M	95.0u	1.638m	916.0u	152.8m
12	1	17M	87.0u	-	-	24.62m
13	2	11M	77.2u	1.449m	-	147.8m
14	2	7M	81.9u	1.202m	-	185.3m
15	2	17M	57.0u	1.900m	-	329.3m
16	3	15M	66.2u	1.086m	1.305m	141.8m
17	1	17M	87.5u	-	-	585.6m
18	3	19M	69.6u	1.325m	1.894m	20.68m
19	2	16M	81.0u	1.403m	-	142.9m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT40_Signal_12

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	3	7M	58.8u	1.041m	1.111m	84.28m
2	2	18M	58.5u	1.463m	-	348.5m
3	1	6M	60.7u	-	-	570.4m
4	3	9M	69.3u	1.315m	1.164m	509.5m
5	3	10M	93.1u	1.351m	1.615m	231.9m
6	2	17M	65.0u	1.110m	-	22.46m
7	2	13M	74.1u	1.003m	-	466.2m
8	2	15M	83.3u	1.410m	-	318.2m
9	2	11M	64.9u	1.802m	-	70.70m
10	1	19M	68.1u	-	-	619.7m
11	2	13M	92.5u	1.248m	-	616.2m



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12	2	15M	78.4u	1.282m	-	242.8m
13	2	17M	98.6u	1.469m	-	303.6m
14	3	20M	92.6u	995.4u	1.338m	14.07m
15	2	5M	93.8u	1.329m	-	603.2m
16	2	14M	80.1u	1.762m	-	459.2m
17	2	10M	65.6u	1.155m	-	313.9m
18	1	13M	94.9u	-	-	452.2m
19	3	17M	71.0u	1.832m	1.112m	292.0m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT40_Signal_13

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	2	5M	99.6u	1.514m	-	459.8m
2	2	16M	93.8u	1.223m	-	307.3m
3	3	5M	86.9u	1.390m	1.543m	117.0m
4	1	13M	81.3u	-	-	485.4m
5	3	13M	80.4u	1.506m	1.452m	401.8m
6	3	14M	66.5u	1.783m	1.288m	328.3m
7	1	18M	72.5u	-	-	276.3m
8	3	7M	70.3u	1.167m	941.7u	56.03m
9	3	19M	74.0u	1.636m	1.583m	366.8m
10	1	12M	59.3u	-	-	452.5m
11	2	14M	59.7u	1.588m	-	548.9m
12	2	13M	60.1u	1.401m	-	262.1m
13	3	14M	65.8u	1.755m	1.582m	145.7m
14	2	18M	96.3u	1.696m	-	626.4m
15	2	5M	60.3u	1.108m	-	155.1m
16	2	6M	76.6u	1.072m	-	191.4m
17	3	6M	82.1u	1.642m	1.128m	170.4m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT40_Signal_14

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	15M	93.7u	1.098m	-	9.066m
2	3	18M	98.5u	1.056m	1.824m	571.0m
3	1	18M	95.8u	-	-	641.5m
4	2	10M	76.8u	1.235m	-	1.167
5	1	18M	91.0u	-	-	405.1m
6	2	17M	96.2u	1.556m	-	1.329

**A D T**

7	3	18M	55.0u	1.514m	1.722m	346.8m
8	2	13M	96.0u	1.760m	-	824.4m
9	2	18M	52.1u	1.282m	-	494.8m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT40_Signal_15

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	12M	87.1u	1.114m	-	1.084
2	2	6M	98.3u	1.074m	-	377.8m
3	3	13M	79.3u	1.686m	1.095m	672.5m
4	1	5M	91.9u	-	-	106.2m
5	1	17M	93.3u	-	-	489.2m
6	2	18M	83.1u	1.815m	-	431.2m
7	2	19M	50.8u	1.583m	-	766.8m
8	2	9M	68.6u	1.884m	-	948.5m
9	1	15M	99.4u	-	-	787.0m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT40_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	1	12M	78.7u	-	-	53.68m
2	1	10M	79.6u	-	-	791.5m
3	2	6M	54.8u	1.806m	-	490.9m
4	2	13M	85.4u	1.444m	-	240.4m
5	3	14M	95.5u	1.158m	1.391m	292.9m
6	3	8M	91.4u	1.304m	1.597m	651.2m
7	2	11M	91.7u	1.099m	-	431.6m
8	3	17M	87.0u	1.614m	970.0u	40.85m
9	1	7M	54.0u	-	-	145.8m
10	2	20M	54.7u	1.880m	-	603.4m
11	3	19M	54.2u	1.518m	1.371m	957.7m
12	1	9M	82.7u	-	-	976.9m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT40_Signal_17

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)
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**A D T**

1	3	12M	59.2u	1.685m	1.753m	373.5m
2	2	17M	73.0u	1.821m	-	566.7m
3	2	15M	58.8u	1.449m	-	90.41m
4	3	12M	67.7u	940.3u	1.877m	510.2m
5	2	9M	83.7u	1.621m	-	127.0m
6	1	20M	76.7u	-	-	587.4m
7	2	9M	71.1u	1.582m	-	582.4m
8	3	18M	73.5u	1.775m	988.5u	595.4m
9	2	7M	66.7u	1.215m	-	406.8m
10	3	19M	52.0u	1.541m	1.045m	30.72m
11	3	9M	89.1u	1.777m	1.838m	260.0m
12	1	10M	92.4u	-	-	365.1m
13	2	17M	95.7u	1.779m	-	214.2m
14	2	13M	91.4u	1.221m	-	425.9m
15	1	9M	50.8u	-	-	335.8m
16	2	9M	55.2u	1.435m	-	30.30m
17	3	16M	80.9u	1.157m	1.605m	529.2m
18	2	10M	69.1u	1.726m	-	36.26m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT40_Signal_18

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	2	17M	94.2u	1.823m	-	616.5m
2	1	16M	83.2u	-	-	1.398
3	1	12M	64.5u	-	-	411.2m
4	3	8M	63.6u	1.371m	1.205m	626.9m
5	2	19M	65.6u	1.155m	-	507.3m
6	2	13M	55.4u	1.229m	-	482.3m
7	3	14M	91.7u	1.272m	1.582m	1.494
8	2	17M	55.8u	1.134m	-	339.2m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT40_Signal_19

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	19M	74.1u	1.199m	1.505m	537.1m
2	1	5M	55.1u	-	-	484.1m
3	2	19M	93.7u	1.845m	-	335.6m
4	2	12M	84.0u	1.490m	-	843.9m
5	3	8M	96.9u	1.357m	1.644m	398.5m

**A D T**

6	1	10M	62.8u	-	-	310.1m
7	2	13M	59.8u	1.214m	-	901.8m
8	3	10M	73.7u	1.086m	1.383m	475.2m
9	2	9M	61.5u	1.246m	-	85.23m
10	3	15M	81.9u	1.839m	1.230m	1.016
11	2	7M	87.8u	1.616m	-	473.8m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT40_Signal_20

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	8M	61.7u	-	-	289.4m
2	2	8M	82.8u	1.115m	-	903.5m
3	3	19M	87.0u	1.710m	1.425m	605.0m
4	1	10M	74.3u	-	-	303.8m
5	3	9M	85.8u	1.326m	1.450m	399.3m
6	2	17M	75.6u	1.464m	-	267.1m
7	2	18M	67.2u	1.622m	-	183.4m
8	1	11M	95.2u	-	-	1.237
9	2	7M	86.0u	1.680m	-	412.9m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT40_Signal_21

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	13M	58.7u	1.682m	-	435.7m
2	2	8M	95.4u	1.424m	-	250.1m
3	2	15M	67.1u	1.485m	-	605.2m
4	2	20M	73.1u	1.785m	-	323.2m
5	3	17M	75.1u	1.034m	1.346m	283.4m
6	1	6M	59.6u	-	-	576.8m
7	3	10M	80.9u	941.1u	993.1u	509.1m
8	2	18M	88.7u	988.3u	-	451.8m
9	3	8M	79.4u	921.6u	964.6u	47.31m
10	3	7M	82.2u	1.387m	939.8u	3.334m
11	1	19M	99.1u	-	-	250.1m
12	3	15M	61.6u	1.081m	1.007m	435.8m
13	1	11M	74.2u	-	-	472.3m
14	3	15M	77.4u	1.467m	1.457m	60.77m
15	1	10M	86.1u	-	-	33.50m
16	1	5M	84.7u	-	-	46.90m



A D T

17	3	19M	56.4u	1.828m	1.936m	431.1m
18	3	10M	89.2u	1.426m	1.044m	445.9m
19	1	12M	89.2u	-	-	490.6m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT40_Signal_22

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	19M	92.5u	1.186m	1.287m	333.5m
2	2	18M	96.7u	1.185m	-	483.6m
3	2	12M	64.1u	1.717m	-	618.7m
4	2	6M	85.7u	1.802m	-	71.96m
5	2	8M	88.9u	985.1u	-	584.9m
6	3	7M	53.5u	1.326m	1.686m	652.6m
7	3	6M	85.6u	1.487m	1.424m	46.20m
8	2	16M	76.3u	1.721m	-	78.03m
9	1	13M	69.6u	-	-	198.7m
10	2	17M	76.2u	1.065m	-	525.2m
11	2	13M	76.9u	1.820m	-	622.5m
12	1	19M	63.1u	-	-	64.49m
13	3	6M	93.5u	1.434m	934.5u	6.024m
14	2	6M	95.8u	1.011m	-	12.52m
15	2	18M	80.9u	1.852m	-	144.6m
16	2	10M	71.3u	1.402m	-	335.3m
17	2	7M	55.0u	1.249m	-	232.8m
18	2	17M	84.2u	1.012m	-	427.1m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT40_Signal_23

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	87.2u	1.533m	-	212.8m
2	2	8M	67.1u	1.293m	-	398.4m
3	1	7M	98.7u	-	-	115.5m
4	1	13M	60.4u	-	-	118.8m
5	2	14M	78.0u	948.0u	-	74.38m
6	2	7M	96.1u	1.712m	-	261.0m
7	1	10M	93.7u	-	-	255.8m
8	2	14M	79.6u	1.323m	-	221.3m
9	2	19M	61.7u	1.133m	-	437.9m
10	2	18M	59.9u	985.1u	-	281.9m



A D T

11	2	17M	55.1u	1.459m	-	474.8m
12	3	16M	74.8u	1.318m	1.829m	367.0m
13	1	6M	64.8u	-	-	426.1m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT40_Signal_24

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	17M	64.7u	1.103m	1.304m	307.8m
2	1	14M	63.0u	-	-	245.2m
3	1	8M	53.4u	-	-	458.6m
4	2	18M	99.1u	1.789m	-	656.6m
5	2	8M	95.1u	931.9u	-	1.119
6	2	8M	55.9u	1.501m	-	145.1m
7	3	10M	55.4u	986.6u	1.911m	1.098
8	2	15M	67.9u	1.282m	-	147.4m
9	2	6M	75.8u	1.852m	-	1.115

Long Pulse Radar Test Signal

Test Signal Name: LP_HT40_Signal_25

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	5M	59.9u	1.581m	-	138.9m
2	1	9M	76.6u	-	-	591.4m
3	2	16M	88.7u	1.407m	-	577.6m
4	1	7M	54.0u	-	-	764.1m
5	2	7M	54.9u	970.1u	-	325.2m
6	1	7M	73.9u	-	-	726.6m
7	2	11M	76.0u	937.0u	-	336.3m
8	1	10M	51.5u	-	-	362.1m
9	2	13M	64.4u	1.761m	-	685.2m
10	3	12M	78.9u	1.561m	1.431m	115.0m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT40_Signal_26

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	3	12M	72.7u	1.078m	1.846m	185.3m
2	1	17M	68.4u	-	-	606.6m



A D T

3	2	7M	59.5u	1.610m	-	627.1m
4	1	15M	62.0u	-	-	289.1m
5	1	13M	84.4u	-	-	386.6m
6	1	18M	93.6u	-	-	531.8m
7	1	15M	96.7u	-	-	130.3m
8	2	16M	84.3u	1.116m	-	296.8m
9	3	15M	98.9u	1.489m	1.056m	491.9m
10	2	18M	64.8u	1.879m	-	138.8m
11	2	16M	86.8u	1.051m	-	511.6m
12	1	6M	65.6u	-	-	145.1m
13	3	14M	55.3u	1.911m	1.468m	74.86m
14	1	15M	75.9u	-	-	275.7m
15	3	20M	65.5u	1.339m	1.511m	1.724m
16	3	17M	58.5u	1.808m	1.571m	84.17m
17	1	12M	61.5u	-	-	323.5m
18	2	15M	93.7u	959.3u	-	222.7m
19	1	16M	88.2u	-	-	224.4m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT40_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	3	10M	60.4u	1.899m	1.260m	659.4m
2	2	11M	70.1u	1.633m	-	588.3m
3	3	12M	53.1u	1.281m	1.593m	1.157
4	3	11M	93.9u	1.264m	1.876m	170.2m
5	2	16M	69.8u	1.260m	-	100.2m
6	3	16M	93.4u	1.784m	1.669m	304.8m
7	1	10M	99.4u	-	-	1.266
8	2	15M	83.3u	1.191m	-	908.0m
9	3	14M	64.4u	973.6u	1.402m	124.1m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT40_Signal_28

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	6M	69.4u	1.348m	1.327m	367.9m
2	2	13M	53.1u	1.342m	-	851.3m
3	2	9M	95.8u	1.755m	-	409.0m
4	2	19M	78.7u	1.181m	-	296.1m
5	1	10M	60.8u	-	-	733.3m



A D T

6	2	17M	59.2u	1.844m	-	864.6m
7	2	8M	90.1u	1.815m	-	976.2m
8	3	8M	54.7u	1.617m	1.751m	612.6m
9	2	5M	51.8u	996.2u	-	842.4m
10	2	17M	74.6u	1.095m	-	762.1m
11	2	6M	56.7u	1.500m	-	932.6m
12	3	14M	54.2u	1.773m	1.383m	745.5m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT40_Signal_29

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	12M	60.5u	1.850m	1.509m	601.2m
2	2	12M	97.0u	1.888m	-	283.7m
3	1	12M	72.4u	-	-	620.8m
4	3	7M	95.3u	1.241m	1.439m	539.4m
5	2	15M	63.5u	961.5u	-	82.90m
6	1	16M	53.7u	-	-	339.2m
7	2	18M	91.1u	1.532m	-	770.9m
8	2	17M	68.9u	1.774m	-	772.0m
9	2	14M	67.6u	1.776m	-	807.6m
10	2	7M	75.8u	1.450m	-	786.6m
11	2	14M	92.9u	1.022m	-	335.0m
12	1	18M	53.7u	-	-	662.6m

Long Pulse Radar Test Signal

Test Signal Name: LP_HT40_Signal_30

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	19M	63.1u	987.9u	-	1.068
2	2	9M	56.1u	1.185m	-	738.8m
3	2	6M	90.3u	1.731m	-	965.7m
4	2	12M	75.6u	1.508m	-	647.0m
5	3	15M	74.5u	1.231m	1.711m	177.0m
6	3	19M	79.8u	1.002m	1.739m	798.4m
7	2	16M	68.3u	1.353m	-	509.8m
8	1	7M	65.5u	-	-	444.9m
9	3	7M	72.7u	1.152m	1.280m	804.0m



B.2 The Frequency Hopping Radar Pattern

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_01							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.637G	2	5.712G	3	5.532G	4	5.460G
5	5.423G	6	5.328G	7	5.671G	8	5.545G
9	5.451G	10	5.393G	11	5.452G	12	5.314G
13	5.432G	14	5.341G	15	5.687G	16	5.419G
17	5.351G	18	5.474G	19	5.455G	20	5.540G
21	5.458G	22	5.459G	23	5.698G	24	5.647G
25	5.510G	26	5.614G	27	5.461G	28	5.256G
29	5.552G	30	5.648G	31	5.702G	32	5.538G
33	5.623G	34	5.700G	35	5.410G	36	5.566G
37	5.618G	38	5.367G	39	5.722G	40	5.366G
41	5.446G	42	5.332G	43	5.274G	44	5.513G
45	5.601G	46	5.342G	47	5.685G	48	5.372G
49	5.422G	50	5.469G	51	5.707G	52	5.336G
53	5.690G	54	5.562G	55	5.360G	56	5.386G
57	5.337G	58	5.338G	59	5.539G	60	5.665G
61	5.374G	62	5.265G	63	5.462G	64	5.662G
65	5.592G	66	5.364G	67	5.496G	68	5.287G
69	5.261G	70	5.368G	71	5.632G	72	5.676G
73	5.609G	74	5.571G	75	5.456G	76	5.574G
77	5.548G	78	5.644G	79	5.546G	80	5.515G
81	5.481G	82	5.295G	83	5.522G	84	5.252G
85	5.315G	86	5.502G	87	5.646G	88	5.485G
89	5.542G	90	5.327G	91	5.633G	92	5.563G
93	5.655G	94	5.370G	95	5.617G	96	5.715G
97	5.322G	98	5.681G	99	5.301G	100	5.582G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_02							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.563G	2	5.279G	3	5.645G	4	5.462G
5	5.355G	6	5.515G	7	5.421G	8	5.612G
9	5.591G	10	5.716G	11	5.328G	12	5.595G
13	5.357G	14	5.412G	15	5.423G	16	5.316G
17	5.285G	18	5.439G	19	5.453G	20	5.546G
21	5.648G	22	5.260G	23	5.660G	24	5.403G
25	5.361G	26	5.559G	27	5.323G	28	5.444G
29	5.387G	30	5.568G	31	5.424G	32	5.536G
33	5.315G	34	5.363G	35	5.706G	36	5.697G
37	5.291G	38	5.630G	39	5.654G	40	5.602G
41	5.566G	42	5.287G	43	5.295G	44	5.711G



A D T

45	5.365G	46	5.381G	47	5.346G	48	5.653G
49	5.259G	50	5.482G	51	5.570G	52	5.702G
53	5.437G	54	5.339G	55	5.349G	56	5.603G
57	5.650G	58	5.540G	59	5.367G	60	5.668G
61	5.629G	62	5.534G	63	5.269G	64	5.250G
65	5.445G	66	5.525G	67	5.489G	68	5.499G
69	5.528G	70	5.698G	71	5.443G	72	5.614G
73	5.529G	74	5.378G	75	5.619G	76	5.307G
77	5.371G	78	5.390G	79	5.348G	80	5.426G
81	5.288G	82	5.399G	83	5.555G	84	5.254G
85	5.671G	86	5.488G	87	5.429G	88	5.392G
89	5.301G	90	5.613G	91	5.461G	92	5.594G
93	5.637G	94	5.505G	95	5.338G	96	5.337G
97	5.310G	98	5.329G	99	5.541G	100	5.547G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_03

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.531G	2	5.251G	3	5.537G	4	5.539G
5	5.582G	6	5.646G	7	5.502G	8	5.383G
9	5.428G	10	5.680G	11	5.574G	12	5.514G
13	5.274G	14	5.563G	15	5.303G	16	5.437G
17	5.644G	18	5.371G	19	5.461G	20	5.330G
21	5.451G	22	5.550G	23	5.567G	24	5.276G
25	5.661G	26	5.319G	27	5.669G	28	5.489G
29	5.693G	30	5.456G	31	5.722G	32	5.285G
33	5.344G	34	5.710G	35	5.322G	36	5.545G
37	5.633G	38	5.499G	39	5.548G	40	5.670G
41	5.521G	42	5.690G	43	5.620G	44	5.648G
45	5.528G	46	5.296G	47	5.286G	48	5.438G
49	5.467G	50	5.679G	51	5.397G	52	5.414G
53	5.686G	54	5.580G	55	5.712G	56	5.664G
57	5.668G	58	5.402G	59	5.313G	60	5.649G
61	5.324G	62	5.373G	63	5.677G	64	5.530G
65	5.594G	66	5.348G	67	5.626G	68	5.721G
69	5.506G	70	5.498G	71	5.311G	72	5.396G
73	5.691G	74	5.616G	75	5.593G	76	5.250G
77	5.631G	78	5.560G	79	5.484G	80	5.255G
81	5.398G	82	5.287G	83	5.399G	84	5.637G
85	5.378G	86	5.561G	87	5.442G	88	5.496G
89	5.271G	90	5.604G	91	5.684G	92	5.718G
93	5.306G	94	5.474G	95	5.658G	96	5.320G
97	5.564G	98	5.302G	99	5.482G	100	5.470G



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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_04							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.365G	2	5.663G	3	5.500G	4	5.602G
5	5.322G	6	5.714G	7	5.503G	8	5.706G
9	5.608G	10	5.396G	11	5.654G	12	5.293G
13	5.256G	14	5.276G	15	5.499G	16	5.309G
17	5.385G	18	5.345G	19	5.291G	20	5.416G
21	5.471G	22	5.325G	23	5.563G	24	5.635G
25	5.431G	26	5.707G	27	5.259G	28	5.582G
29	5.354G	30	5.432G	31	5.335G	32	5.410G
33	5.703G	34	5.360G	35	5.400G	36	5.308G
37	5.613G	38	5.521G	39	5.375G	40	5.534G
41	5.427G	42	5.336G	43	5.651G	44	5.414G
45	5.620G	46	5.606G	47	5.475G	48	5.583G
49	5.547G	50	5.639G	51	5.404G	52	5.272G
53	5.392G	54	5.495G	55	5.279G	56	5.453G
57	5.353G	58	5.596G	59	5.460G	60	5.469G
61	5.529G	62	5.551G	63	5.466G	64	5.328G
65	5.312G	66	5.422G	67	5.282G	68	5.376G
69	5.648G	70	5.446G	71	5.411G	72	5.715G
73	5.641G	74	5.423G	75	5.660G	76	5.687G
77	5.297G	78	5.712G	79	5.696G	80	5.657G
81	5.358G	82	5.379G	83	5.294G	84	5.301G
85	5.310G	86	5.373G	87	5.339G	88	5.686G
89	5.283G	90	5.632G	91	5.458G	92	5.331G
93	5.415G	94	5.568G	95	5.579G	96	5.437G
97	5.338G	98	5.532G	99	5.307G	100	5.530G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_05							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.526G	2	5.488G	3	5.516G	4	5.664G
5	5.716G	6	5.514G	7	5.662G	8	5.636G
9	5.612G	10	5.563G	11	5.486G	12	5.344G
13	5.534G	14	5.515G	15	5.375G	16	5.722G
17	5.349G	18	5.251G	19	5.699G	20	5.345G
21	5.264G	22	5.550G	23	5.547G	24	5.334G
25	5.683G	26	5.329G	27	5.332G	28	5.672G
29	5.584G	30	5.608G	31	5.285G	32	5.390G
33	5.429G	34	5.417G	35	5.366G	36	5.254G
37	5.617G	38	5.353G	39	5.442G	40	5.461G
41	5.528G	42	5.426G	43	5.328G	44	5.370G
45	5.626G	46	5.324G	47	5.323G	48	5.559G



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49	5.589G	50	5.312G	51	5.360G	52	5.308G
53	5.257G	54	5.465G	55	5.628G	56	5.472G
57	5.406G	58	5.293G	59	5.376G	60	5.595G
61	5.284G	62	5.571G	63	5.427G	64	5.467G
65	5.657G	66	5.592G	67	5.303G	68	5.311G
69	5.398G	70	5.625G	71	5.434G	72	5.342G
73	5.701G	74	5.596G	75	5.605G	76	5.573G
77	5.439G	78	5.273G	79	5.531G	80	5.641G
81	5.621G	82	5.451G	83	5.524G	84	5.660G
85	5.265G	86	5.381G	87	5.697G	88	5.643G
89	5.669G	90	5.327G	91	5.619G	92	5.574G
93	5.438G	94	5.647G	95	5.444G	96	5.713G
97	5.502G	98	5.495G	99	5.317G	100	5.684G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_06							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.605G	2	5.304G	3	5.301G	4	5.396G
5	5.529G	6	5.462G	7	5.257G	8	5.387G
9	5.465G	10	5.562G	11	5.326G	12	5.513G
13	5.602G	14	5.314G	15	5.446G	16	5.481G
17	5.641G	18	5.610G	19	5.596G	20	5.290G
21	5.432G	22	5.293G	23	5.412G	24	5.704G
25	5.682G	26	5.675G	27	5.360G	28	5.512G
29	5.586G	30	5.626G	31	5.327G	32	5.265G
33	5.279G	34	5.297G	35	5.487G	36	5.708G
37	5.475G	38	5.556G	39	5.292G	40	5.502G
41	5.275G	42	5.573G	43	5.632G	44	5.569G
45	5.398G	46	5.723G	47	5.717G	48	5.308G
49	5.493G	50	5.451G	51	5.614G	52	5.559G
53	5.501G	54	5.440G	55	5.357G	56	5.454G
57	5.447G	58	5.431G	59	5.352G	60	5.653G
61	5.538G	62	5.457G	63	5.625G	64	5.698G
65	5.404G	66	5.533G	67	5.254G	68	5.608G
69	5.311G	70	5.353G	71	5.601G	72	5.537G
73	5.643G	74	5.633G	75	5.405G	76	5.693G
77	5.619G	78	5.406G	79	5.567G	80	5.252G
81	5.716G	82	5.581G	83	5.527G	84	5.407G
85	5.416G	86	5.685G	87	5.453G	88	5.552G
89	5.417G	90	5.258G	91	5.628G	92	5.318G
93	5.333G	94	5.678G	95	5.531G	96	5.724G
97	5.330G	98	5.536G	99	5.611G	100	5.337G



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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_07							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.498G	2	5.540G	3	5.398G	4	5.530G
5	5.661G	6	5.625G	7	5.642G	8	5.686G
9	5.561G	10	5.639G	11	5.256G	12	5.521G
13	5.515G	14	5.478G	15	5.484G	16	5.487G
17	5.594G	18	5.589G	19	5.270G	20	5.438G
21	5.339G	22	5.590G	23	5.494G	24	5.327G
25	5.637G	26	5.549G	27	5.646G	28	5.626G
29	5.469G	30	5.323G	31	5.315G	32	5.619G
33	5.263G	34	5.278G	35	5.576G	36	5.595G
37	5.475G	38	5.705G	39	5.620G	40	5.332G
41	5.334G	42	5.415G	43	5.523G	44	5.324G
45	5.366G	46	5.700G	47	5.412G	48	5.479G
49	5.331G	50	5.565G	51	5.663G	52	5.624G
53	5.568G	54	5.277G	55	5.482G	56	5.368G
57	5.388G	58	5.296G	59	5.344G	60	5.314G
61	5.432G	62	5.292G	63	5.688G	64	5.397G
65	5.251G	66	5.253G	67	5.379G	68	5.346G
69	5.545G	70	5.535G	71	5.308G	72	5.608G
73	5.385G	74	5.636G	75	5.371G	76	5.394G
77	5.446G	78	5.361G	79	5.536G	80	5.488G
81	5.588G	82	5.268G	83	5.531G	84	5.430G
85	5.528G	86	5.708G	87	5.547G	88	5.496G
89	5.272G	90	5.410G	91	5.356G	92	5.417G
93	5.284G	94	5.719G	95	5.554G	96	5.396G
97	5.255G	98	5.348G	99	5.343G	100	5.574G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_08							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.355G	2	5.537G	3	5.424G	4	5.525G
5	5.506G	6	5.273G	7	5.568G	8	5.488G
9	5.707G	10	5.681G	11	5.375G	12	5.648G
13	5.709G	14	5.378G	15	5.574G	16	5.613G
17	5.694G	18	5.338G	19	5.621G	20	5.473G
21	5.362G	22	5.673G	23	5.320G	24	5.407G
25	5.262G	26	5.366G	27	5.711G	28	5.723G
29	5.603G	30	5.577G	31	5.259G	32	5.504G
33	5.284G	34	5.294G	35	5.599G	36	5.385G
37	5.667G	38	5.302G	39	5.532G	40	5.319G
41	5.507G	42	5.594G	43	5.692G	44	5.627G
45	5.453G	46	5.513G	47	5.614G	48	5.511G



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49	5.628G	50	5.419G	51	5.361G	52	5.479G
53	5.258G	54	5.448G	55	5.651G	56	5.389G
57	5.630G	58	5.501G	59	5.591G	60	5.547G
61	5.724G	62	5.463G	63	5.652G	64	5.643G
65	5.397G	66	5.317G	67	5.483G	68	5.556G
69	5.371G	70	5.481G	71	5.587G	72	5.451G
73	5.334G	74	5.704G	75	5.566G	76	5.521G
77	5.576G	78	5.494G	79	5.420G	80	5.421G
81	5.658G	82	5.438G	83	5.703G	84	5.351G
85	5.551G	86	5.500G	87	5.427G	88	5.406G
89	5.274G	90	5.367G	91	5.684G	92	5.280G
93	5.685G	94	5.452G	95	5.687G	96	5.510G
97	5.713G	98	5.714G	99	5.332G	100	5.252G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_09							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.582G	2	5.257G	3	5.297G	4	5.628G
5	5.591G	6	5.429G	7	5.303G	8	5.332G
9	5.343G	10	5.452G	11	5.339G	12	5.361G
13	5.298G	14	5.337G	15	5.620G	16	5.612G
17	5.502G	18	5.666G	19	5.703G	20	5.299G
21	5.567G	22	5.473G	23	5.624G	24	5.559G
25	5.494G	26	5.543G	27	5.561G	28	5.467G
29	5.661G	30	5.557G	31	5.416G	32	5.678G
33	5.291G	34	5.710G	35	5.390G	36	5.431G
37	5.589G	38	5.395G	39	5.367G	40	5.443G
41	5.259G	42	5.376G	43	5.536G	44	5.638G
45	5.630G	46	5.260G	47	5.622G	48	5.448G
49	5.572G	50	5.261G	51	5.650G	52	5.450G
53	5.659G	54	5.584G	55	5.351G	56	5.426G
57	5.605G	58	5.353G	59	5.531G	60	5.296G
61	5.480G	62	5.604G	63	5.304G	64	5.415G
65	5.458G	66	5.256G	67	5.619G	68	5.425G
69	5.600G	70	5.350G	71	5.566G	72	5.554G
73	5.611G	74	5.514G	75	5.525G	76	5.504G
77	5.511G	78	5.451G	79	5.435G	80	5.542G
81	5.636G	82	5.254G	83	5.699G	84	5.436G
85	5.349G	86	5.558G	87	5.555G	88	5.348G
89	5.556G	90	5.596G	91	5.377G	92	5.413G
93	5.535G	94	5.341G	95	5.482G	96	5.576G
97	5.692G	98	5.311G	99	5.696G	100	5.519G



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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_10							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.647G	2	5.498G	3	5.431G	4	5.556G
5	5.497G	6	5.419G	7	5.320G	8	5.591G
9	5.697G	10	5.671G	11	5.261G	12	5.569G
13	5.269G	14	5.544G	15	5.568G	16	5.517G
17	5.356G	18	5.354G	19	5.298G	20	5.254G
21	5.499G	22	5.507G	23	5.264G	24	5.297G
25	5.471G	26	5.388G	27	5.645G	28	5.371G
29	5.677G	30	5.515G	31	5.424G	32	5.722G
33	5.336G	34	5.643G	35	5.476G	36	5.691G
37	5.526G	38	5.674G	39	5.504G	40	5.523G
41	5.455G	42	5.694G	43	5.501G	44	5.598G
45	5.626G	46	5.270G	47	5.611G	48	5.657G
49	5.343G	50	5.580G	51	5.475G	52	5.511G
53	5.702G	54	5.390G	55	5.309G	56	5.617G
57	5.646G	58	5.281G	59	5.668G	60	5.347G
61	5.411G	62	5.378G	63	5.631G	64	5.460G
65	5.458G	66	5.708G	67	5.397G	68	5.342G
69	5.369G	70	5.560G	71	5.593G	72	5.339G
73	5.393G	74	5.653G	75	5.692G	76	5.545G
77	5.709G	78	5.705G	79	5.265G	80	5.407G
81	5.433G	82	5.610G	83	5.513G	84	5.394G
85	5.399G	86	5.338G	87	5.333G	88	5.410G
89	5.275G	90	5.532G	91	5.630G	92	5.724G
93	5.679G	94	5.453G	95	5.567G	96	5.408G
97	5.693G	98	5.603G	99	5.672G	100	5.449G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_11							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.703G	2	5.702G	3	5.628G	4	5.259G
5	5.643G	6	5.378G	7	5.357G	8	5.542G
9	5.711G	10	5.708G	11	5.379G	12	5.348G
13	5.591G	14	5.279G	15	5.260G	16	5.502G
17	5.637G	18	5.464G	19	5.253G	20	5.277G
21	5.299G	22	5.679G	23	5.721G	24	5.300G
25	5.566G	26	5.397G	27	5.638G	28	5.407G
29	5.685G	30	5.525G	31	5.659G	32	5.722G
33	5.530G	34	5.403G	35	5.559G	36	5.460G
37	5.303G	38	5.697G	39	5.334G	40	5.602G
41	5.560G	42	5.569G	43	5.448G	44	5.283G
45	5.528G	46	5.653G	47	5.610G	48	5.285G



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49	5.358G	50	5.462G	51	5.676G	52	5.374G
53	5.600G	54	5.671G	55	5.305G	56	5.536G
57	5.477G	58	5.625G	59	5.454G	60	5.681G
61	5.330G	62	5.572G	63	5.529G	64	5.445G
65	5.629G	66	5.362G	67	5.622G	68	5.328G
69	5.514G	70	5.450G	71	5.366G	72	5.402G
73	5.585G	74	5.459G	75	5.398G	76	5.286G
77	5.662G	78	5.533G	79	5.369G	80	5.543G
81	5.484G	82	5.320G	83	5.349G	84	5.505G
85	5.457G	86	5.540G	87	5.312G	88	5.627G
89	5.351G	90	5.556G	91	5.295G	92	5.619G
93	5.669G	94	5.336G	95	5.557G	96	5.251G
97	5.418G	98	5.607G	99	5.377G	100	5.297G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_12							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.640G	2	5.642G	3	5.686G	4	5.576G
5	5.612G	6	5.570G	7	5.319G	8	5.411G
9	5.715G	10	5.454G	11	5.258G	12	5.256G
13	5.401G	14	5.720G	15	5.282G	16	5.614G
17	5.710G	18	5.573G	19	5.688G	20	5.515G
21	5.254G	22	5.358G	23	5.357G	24	5.352G
25	5.465G	26	5.653G	27	5.283G	28	5.434G
29	5.251G	30	5.501G	31	5.590G	32	5.356G
33	5.260G	34	5.303G	35	5.479G	36	5.567G
37	5.569G	38	5.718G	39	5.615G	40	5.696G
41	5.520G	42	5.336G	43	5.390G	44	5.382G
45	5.513G	46	5.407G	47	5.545G	48	5.542G
49	5.676G	50	5.624G	51	5.724G	52	5.305G
53	5.493G	54	5.540G	55	5.265G	56	5.410G
57	5.480G	58	5.687G	59	5.585G	60	5.278G
61	5.510G	62	5.700G	63	5.611G	64	5.665G
65	5.344G	66	5.578G	67	5.674G	68	5.300G
69	5.685G	70	5.690G	71	5.287G	72	5.548G
73	5.667G	74	5.361G	75	5.654G	76	5.273G
77	5.589G	78	5.657G	79	5.717G	80	5.475G
81	5.684G	82	5.550G	83	5.658G	84	5.296G
85	5.285G	86	5.522G	87	5.702G	88	5.483G
89	5.415G	90	5.577G	91	5.693G	92	5.291G
93	5.627G	94	5.713G	95	5.602G	96	5.393G
97	5.424G	98	5.490G	99	5.703G	100	5.532G



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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_13							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.533G	2	5.616G	3	5.663G	4	5.629G
5	5.439G	6	5.579G	7	5.436G	8	5.531G
9	5.582G	10	5.497G	11	5.332G	12	5.276G
13	5.343G	14	5.547G	15	5.258G	16	5.389G
17	5.660G	18	5.545G	19	5.655G	20	5.386G
21	5.504G	22	5.406G	23	5.288G	24	5.562G
25	5.652G	26	5.608G	27	5.667G	28	5.312G
29	5.336G	30	5.378G	31	5.282G	32	5.694G
33	5.472G	34	5.444G	35	5.301G	36	5.422G
37	5.698G	38	5.571G	39	5.687G	40	5.310G
41	5.327G	42	5.353G	43	5.516G	44	5.697G
45	5.590G	46	5.604G	47	5.521G	48	5.418G
49	5.324G	50	5.273G	51	5.580G	52	5.296G
53	5.530G	54	5.724G	55	5.536G	56	5.506G
57	5.613G	58	5.438G	59	5.518G	60	5.445G
61	5.264G	62	5.620G	63	5.400G	64	5.715G
65	5.529G	66	5.515G	67	5.384G	68	5.699G
69	5.611G	70	5.479G	71	5.283G	72	5.292G
73	5.615G	74	5.576G	75	5.683G	76	5.275G
77	5.398G	78	5.387G	79	5.554G	80	5.540G
81	5.291G	82	5.570G	83	5.464G	84	5.341G
85	5.412G	86	5.487G	87	5.490G	88	5.677G
89	5.672G	90	5.303G	91	5.701G	92	5.424G
93	5.637G	94	5.411G	95	5.692G	96	5.618G
97	5.525G	98	5.429G	99	5.371G	100	5.319G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_14							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.575G	2	5.604G	3	5.700G	4	5.534G
5	5.470G	6	5.718G	7	5.366G	8	5.325G
9	5.436G	10	5.603G	11	5.510G	12	5.694G
13	5.512G	14	5.419G	15	5.546G	16	5.465G
17	5.253G	18	5.258G	19	5.526G	20	5.477G
21	5.368G	22	5.609G	23	5.505G	24	5.580G
25	5.352G	26	5.304G	27	5.311G	28	5.637G
29	5.532G	30	5.581G	31	5.476G	32	5.547G
33	5.402G	34	5.371G	35	5.437G	36	5.262G
37	5.381G	38	5.571G	39	5.642G	40	5.431G
41	5.375G	42	5.716G	43	5.559G	44	5.424G
45	5.372G	46	5.277G	47	5.498G	48	5.577G



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49	5.516G	50	5.252G	51	5.706G	52	5.341G
53	5.338G	54	5.280G	55	5.627G	56	5.479G
57	5.399G	58	5.669G	59	5.631G	60	5.269G
61	5.530G	62	5.628G	63	5.524G	64	5.653G
65	5.401G	66	5.378G	67	5.656G	68	5.657G
69	5.678G	70	5.364G	71	5.561G	72	5.644G
73	5.461G	74	5.354G	75	5.641G	76	5.348G
77	5.713G	78	5.361G	79	5.616G	80	5.672G
81	5.668G	82	5.543G	83	5.273G	84	5.434G
85	5.395G	86	5.363G	87	5.264G	88	5.481G
89	5.421G	90	5.407G	91	5.688G	92	5.418G
93	5.330G	94	5.464G	95	5.339G	96	5.482G
97	5.369G	98	5.362G	99	5.489G	100	5.680G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_15							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.706G	2	5.610G	3	5.602G	4	5.687G
5	5.430G	6	5.502G	7	5.458G	8	5.289G
9	5.711G	10	5.690G	11	5.695G	12	5.449G
13	5.468G	14	5.506G	15	5.485G	16	5.473G
17	5.251G	18	5.428G	19	5.562G	20	5.515G
21	5.255G	22	5.252G	23	5.584G	24	5.351G
25	5.381G	26	5.641G	27	5.631G	28	5.659G
29	5.469G	30	5.392G	31	5.521G	32	5.525G
33	5.519G	34	5.596G	35	5.402G	36	5.260G
37	5.516G	38	5.583G	39	5.310G	40	5.599G
41	5.344G	42	5.253G	43	5.434G	44	5.639G
45	5.359G	46	5.676G	47	5.311G	48	5.453G
49	5.565G	50	5.374G	51	5.410G	52	5.530G
53	5.707G	54	5.493G	55	5.345G	56	5.585G
57	5.396G	58	5.259G	59	5.637G	60	5.320G
61	5.406G	62	5.261G	63	5.355G	64	5.522G
65	5.550G	66	5.529G	67	5.673G	68	5.435G
69	5.479G	70	5.375G	71	5.383G	72	5.505G
73	5.358G	74	5.595G	75	5.386G	76	5.605G
77	5.325G	78	5.476G	79	5.265G	80	5.365G
81	5.545G	82	5.672G	83	5.482G	84	5.646G
85	5.539G	86	5.443G	87	5.607G	88	5.657G
89	5.710G	90	5.615G	91	5.499G	92	5.536G
93	5.399G	94	5.302G	95	5.574G	96	5.324G
97	5.394G	98	5.640G	99	5.312G	100	5.280G



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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_16							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.363G	2	5.343G	3	5.566G	4	5.420G
5	5.291G	6	5.585G	7	5.605G	8	5.305G
9	5.435G	10	5.696G	11	5.472G	12	5.720G
13	5.329G	14	5.565G	15	5.438G	16	5.282G
17	5.595G	18	5.330G	19	5.337G	20	5.262G
21	5.648G	22	5.582G	23	5.444G	24	5.400G
25	5.413G	26	5.379G	27	5.490G	28	5.428G
29	5.377G	30	5.619G	31	5.275G	32	5.706G
33	5.440G	34	5.545G	35	5.283G	36	5.345G
37	5.410G	38	5.682G	39	5.629G	40	5.524G
41	5.376G	42	5.392G	43	5.458G	44	5.631G
45	5.427G	46	5.571G	47	5.326G	48	5.463G
49	5.425G	50	5.298G	51	5.523G	52	5.451G
53	5.481G	54	5.348G	55	5.700G	56	5.661G
57	5.615G	58	5.538G	59	5.401G	60	5.644G
61	5.369G	62	5.529G	63	5.315G	64	5.423G
65	5.611G	66	5.406G	67	5.359G	68	5.673G
69	5.391G	70	5.669G	71	5.612G	72	5.617G
73	5.388G	74	5.653G	75	5.477G	76	5.542G
77	5.411G	78	5.659G	79	5.603G	80	5.588G
81	5.513G	82	5.618G	83	5.267G	84	5.716G
85	5.419G	86	5.468G	87	5.485G	88	5.561G
89	5.569G	90	5.416G	91	5.252G	92	5.613G
93	5.628G	94	5.501G	95	5.553G	96	5.563G
97	5.581G	98	5.470G	99	5.445G	100	5.570G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_17							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.455G	2	5.290G	3	5.327G	4	5.620G
5	5.442G	6	5.295G	7	5.608G	8	5.588G
9	5.387G	10	5.480G	11	5.470G	12	5.487G
13	5.709G	14	5.412G	15	5.473G	16	5.578G
17	5.653G	18	5.654G	19	5.360G	20	5.371G
21	5.713G	22	5.252G	23	5.523G	24	5.443G
25	5.666G	26	5.479G	27	5.519G	28	5.650G
29	5.540G	30	5.346G	31	5.380G	32	5.314G
33	5.477G	34	5.500G	35	5.262G	36	5.453G
37	5.644G	38	5.685G	39	5.535G	40	5.343G
41	5.570G	42	5.687G	43	5.270G	44	5.413G
45	5.467G	46	5.720G	47	5.695G	48	5.558G



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49	5.660G	50	5.518G	51	5.717G	52	5.428G
53	5.427G	54	5.663G	55	5.284G	56	5.340G
57	5.323G	58	5.719G	59	5.390G	60	5.691G
61	5.465G	62	5.281G	63	5.622G	64	5.677G
65	5.425G	66	5.328G	67	5.388G	68	5.256G
69	5.265G	70	5.505G	71	5.486G	72	5.631G
73	5.655G	74	5.458G	75	5.647G	76	5.571G
77	5.536G	78	5.359G	79	5.419G	80	5.722G
81	5.391G	82	5.688G	83	5.292G	84	5.329G
85	5.433G	86	5.383G	87	5.338G	88	5.420G
89	5.530G	90	5.366G	91	5.580G	92	5.635G
93	5.562G	94	5.378G	95	5.699G	96	5.309G
97	5.319G	98	5.603G	99	5.456G	100	5.641G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_18							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.539G	2	5.259G	3	5.316G	4	5.558G
5	5.423G	6	5.351G	7	5.313G	8	5.712G
9	5.269G	10	5.303G	11	5.466G	12	5.484G
13	5.486G	14	5.446G	15	5.325G	16	5.290G
17	5.696G	18	5.252G	19	5.358G	20	5.520G
21	5.547G	22	5.613G	23	5.413G	24	5.398G
25	5.465G	26	5.658G	27	5.699G	28	5.698G
29	5.250G	30	5.583G	31	5.618G	32	5.503G
33	5.582G	34	5.540G	35	5.306G	36	5.439G
37	5.524G	38	5.685G	39	5.401G	40	5.648G
41	5.586G	42	5.722G	43	5.267G	44	5.471G
45	5.502G	46	5.254G	47	5.581G	48	5.251G
49	5.428G	50	5.604G	51	5.505G	52	5.668G
53	5.700G	54	5.501G	55	5.657G	56	5.678G
57	5.377G	58	5.523G	59	5.541G	60	5.291G
61	5.599G	62	5.389G	63	5.345G	64	5.381G
65	5.255G	66	5.584G	67	5.595G	68	5.298G
69	5.707G	70	5.615G	71	5.421G	72	5.664G
73	5.607G	74	5.536G	75	5.534G	76	5.640G
77	5.573G	78	5.479G	79	5.263G	80	5.395G
81	5.357G	82	5.304G	83	5.562G	84	5.650G
85	5.422G	86	5.706G	87	5.447G	88	5.374G
89	5.441G	90	5.531G	91	5.332G	92	5.610G
93	5.555G	94	5.635G	95	5.688G	96	5.333G
97	5.715G	98	5.368G	99	5.278G	100	5.396G



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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_19							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.592G	2	5.459G	3	5.362G	4	5.581G
5	5.282G	6	5.373G	7	5.563G	8	5.569G
9	5.505G	10	5.565G	11	5.648G	12	5.410G
13	5.453G	14	5.402G	15	5.357G	16	5.533G
17	5.276G	18	5.444G	19	5.651G	20	5.371G
21	5.520G	22	5.582G	23	5.488G	24	5.545G
25	5.631G	26	5.522G	27	5.552G	28	5.416G
29	5.494G	30	5.407G	31	5.477G	32	5.296G
33	5.546G	34	5.598G	35	5.425G	36	5.414G
37	5.441G	38	5.600G	39	5.399G	40	5.293G
41	5.331G	42	5.643G	43	5.430G	44	5.288G
45	5.549G	46	5.422G	47	5.686G	48	5.523G
49	5.313G	50	5.471G	51	5.526G	52	5.688G
53	5.717G	54	5.456G	55	5.532G	56	5.403G
57	5.270G	58	5.595G	59	5.405G	60	5.412G
61	5.452G	62	5.406G	63	5.723G	64	5.427G
65	5.449G	66	5.529G	67	5.375G	68	5.377G
69	5.553G	70	5.495G	71	5.707G	72	5.364G
73	5.500G	74	5.538G	75	5.395G	76	5.378G
77	5.330G	78	5.338G	79	5.561G	80	5.315G
81	5.460G	82	5.266G	83	5.320G	84	5.698G
85	5.267G	86	5.372G	87	5.645G	88	5.613G
89	5.568G	90	5.419G	91	5.528G	92	5.289G
93	5.447G	94	5.519G	95	5.254G	96	5.490G
97	5.380G	98	5.314G	99	5.400G	100	5.524G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_20							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.639G	2	5.561G	3	5.678G	4	5.278G
5	5.521G	6	5.601G	7	5.374G	8	5.412G
9	5.472G	10	5.592G	11	5.566G	12	5.549G
13	5.564G	14	5.265G	15	5.452G	16	5.285G
17	5.293G	18	5.517G	19	5.599G	20	5.567G
21	5.428G	22	5.344G	23	5.535G	24	5.312G
25	5.322G	26	5.519G	27	5.546G	28	5.405G
29	5.338G	30	5.575G	31	5.258G	32	5.489G
33	5.295G	34	5.456G	35	5.713G	36	5.562G
37	5.684G	38	5.695G	39	5.423G	40	5.483G
41	5.530G	42	5.359G	43	5.463G	44	5.706G
45	5.327G	46	5.510G	47	5.548G	48	5.419G



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49	5.679G	50	5.624G	51	5.526G	52	5.650G
53	5.404G	54	5.630G	55	5.598G	56	5.406G
57	5.390G	58	5.464G	59	5.525G	60	5.467G
61	5.459G	62	5.661G	63	5.283G	64	5.411G
65	5.559G	66	5.716G	67	5.646G	68	5.488G
69	5.555G	70	5.602G	71	5.623G	72	5.518G
73	5.284G	74	5.633G	75	5.301G	76	5.698G
77	5.724G	78	5.276G	79	5.350G	80	5.608G
81	5.375G	82	5.435G	83	5.448G	84	5.643G
85	5.502G	86	5.499G	87	5.308G	88	5.701G
89	5.581G	90	5.304G	91	5.426G	92	5.683G
93	5.512G	94	5.573G	95	5.672G	96	5.270G
97	5.551G	98	5.629G	99	5.395G	100	5.642G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_21							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.722G	2	5.470G	3	5.378G	4	5.352G
5	5.607G	6	5.292G	7	5.557G	8	5.587G
9	5.329G	10	5.451G	11	5.535G	12	5.277G
13	5.260G	14	5.658G	15	5.426G	16	5.424G
17	5.334G	18	5.357G	19	5.287G	20	5.639G
21	5.720G	22	5.257G	23	5.309G	24	5.696G
25	5.695G	26	5.536G	27	5.713G	28	5.306G
29	5.554G	30	5.469G	31	5.288G	32	5.638G
33	5.691G	34	5.453G	35	5.299G	36	5.576G
37	5.263G	38	5.326G	39	5.510G	40	5.701G
41	5.566G	42	5.350G	43	5.397G	44	5.525G
45	5.423G	46	5.686G	47	5.670G	48	5.362G
49	5.504G	50	5.620G	51	5.443G	52	5.569G
53	5.475G	54	5.660G	55	5.560G	56	5.360G
57	5.327G	58	5.282G	59	5.298G	60	5.294G
61	5.647G	62	5.338G	63	5.640G	64	5.281G
65	5.427G	66	5.654G	67	5.374G	68	5.313G
69	5.315G	70	5.328G	71	5.511G	72	5.431G
73	5.368G	74	5.618G	75	5.290G	76	5.376G
77	5.692G	78	5.386G	79	5.449G	80	5.708G
81	5.463G	82	5.332G	83	5.266G	84	5.645G
85	5.369G	86	5.567G	87	5.570G	88	5.685G
89	5.406G	90	5.659G	91	5.540G	92	5.456G
93	5.712G	94	5.616G	95	5.678G	96	5.434G
97	5.364G	98	5.585G	99	5.333G	100	5.285G



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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_22							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.331G	2	5.449G	3	5.554G	4	5.594G
5	5.421G	6	5.438G	7	5.577G	8	5.278G
9	5.338G	10	5.345G	11	5.283G	12	5.451G
13	5.700G	14	5.398G	15	5.291G	16	5.667G
17	5.435G	18	5.690G	19	5.316G	20	5.522G
21	5.397G	22	5.280G	23	5.336G	24	5.404G
25	5.625G	26	5.634G	27	5.268G	28	5.303G
29	5.539G	30	5.320G	31	5.694G	32	5.467G
33	5.682G	34	5.417G	35	5.364G	36	5.611G
37	5.304G	38	5.478G	39	5.551G	40	5.321G
41	5.687G	42	5.475G	43	5.596G	44	5.257G
45	5.708G	46	5.399G	47	5.253G	48	5.553G
49	5.333G	50	5.497G	51	5.550G	52	5.356G
53	5.693G	54	5.445G	55	5.696G	56	5.521G
57	5.415G	58	5.312G	59	5.405G	60	5.704G
61	5.259G	62	5.638G	63	5.584G	64	5.612G
65	5.681G	66	5.677G	67	5.479G	68	5.437G
69	5.493G	70	5.272G	71	5.705G	72	5.420G
73	5.640G	74	5.429G	75	5.318G	76	5.294G
77	5.376G	78	5.592G	79	5.609G	80	5.430G
81	5.688G	82	5.713G	83	5.319G	84	5.564G
85	5.527G	86	5.657G	87	5.337G	88	5.496G
89	5.324G	90	5.401G	91	5.504G	92	5.381G
93	5.385G	94	5.546G	95	5.578G	96	5.266G
97	5.502G	98	5.297G	99	5.495G	100	5.300G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_23							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.425G	2	5.459G	3	5.273G	4	5.320G
5	5.634G	6	5.316G	7	5.678G	8	5.330G
9	5.716G	10	5.517G	11	5.360G	12	5.321G
13	5.709G	14	5.443G	15	5.722G	16	5.555G
17	5.455G	18	5.325G	19	5.567G	20	5.625G
21	5.399G	22	5.576G	23	5.604G	24	5.388G
25	5.451G	26	5.264G	27	5.684G	28	5.319G
29	5.630G	30	5.293G	31	5.679G	32	5.438G
33	5.511G	34	5.715G	35	5.557G	36	5.470G
37	5.534G	38	5.551G	39	5.278G	40	5.708G
41	5.538G	42	5.418G	43	5.505G	44	5.521G
45	5.274G	46	5.395G	47	5.626G	48	5.697G



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49	5.408G	50	5.550G	51	5.721G	52	5.251G
53	5.351G	54	5.429G	55	5.394G	56	5.286G
57	5.332G	58	5.681G	59	5.458G	60	5.606G
61	5.257G	62	5.430G	63	5.440G	64	5.621G
65	5.250G	66	5.327G	67	5.613G	68	5.353G
69	5.299G	70	5.433G	71	5.531G	72	5.267G
73	5.586G	74	5.337G	75	5.660G	76	5.605G
77	5.510G	78	5.262G	79	5.687G	80	5.568G
81	5.523G	82	5.676G	83	5.326G	84	5.546G
85	5.636G	86	5.401G	87	5.597G	88	5.688G
89	5.662G	90	5.377G	91	5.410G	92	5.647G
93	5.291G	94	5.675G	95	5.655G	96	5.348G
97	5.648G	98	5.562G	99	5.396G	100	5.437G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_24							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.320G	2	5.419G	3	5.584G	4	5.664G
5	5.559G	6	5.298G	7	5.686G	8	5.448G
9	5.622G	10	5.520G	11	5.286G	12	5.340G
13	5.606G	14	5.539G	15	5.502G	16	5.478G
17	5.528G	18	5.349G	19	5.390G	20	5.264G
21	5.706G	22	5.382G	23	5.356G	24	5.597G
25	5.673G	26	5.422G	27	5.374G	28	5.672G
29	5.465G	30	5.510G	31	5.263G	32	5.571G
33	5.551G	34	5.275G	35	5.403G	36	5.325G
37	5.372G	38	5.394G	39	5.396G	40	5.639G
41	5.721G	42	5.426G	43	5.680G	44	5.529G
45	5.272G	46	5.577G	47	5.654G	48	5.582G
49	5.441G	50	5.475G	51	5.337G	52	5.624G
53	5.554G	54	5.274G	55	5.487G	56	5.354G
57	5.429G	58	5.352G	59	5.375G	60	5.399G
61	5.367G	62	5.402G	63	5.513G	64	5.297G
65	5.535G	66	5.692G	67	5.695G	68	5.573G
69	5.411G	70	5.523G	71	5.428G	72	5.517G
73	5.385G	74	5.676G	75	5.667G	76	5.278G
77	5.489G	78	5.497G	79	5.350G	80	5.498G
81	5.652G	82	5.267G	83	5.698G	84	5.280G
85	5.525G	86	5.568G	87	5.580G	88	5.359G
89	5.451G	90	5.391G	91	5.334G	92	5.603G
93	5.479G	94	5.387G	95	5.537G	96	5.360G
97	5.380G	98	5.255G	99	5.348G	100	5.550G



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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_25							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.598G	2	5.510G	3	5.395G	4	5.613G
5	5.714G	6	5.326G	7	5.370G	8	5.625G
9	5.415G	10	5.505G	11	5.530G	12	5.596G
13	5.639G	14	5.563G	15	5.667G	16	5.713G
17	5.487G	18	5.626G	19	5.479G	20	5.342G
21	5.283G	22	5.591G	23	5.279G	24	5.719G
25	5.305G	26	5.306G	27	5.712G	28	5.396G
29	5.638G	30	5.632G	31	5.517G	32	5.371G
33	5.334G	34	5.285G	35	5.276G	36	5.475G
37	5.265G	38	5.622G	39	5.356G	40	5.707G
41	5.624G	42	5.347G	43	5.282G	44	5.612G
45	5.412G	46	5.671G	47	5.498G	48	5.504G
49	5.494G	50	5.507G	51	5.524G	52	5.603G
53	5.318G	54	5.493G	55	5.368G	56	5.466G
57	5.653G	58	5.715G	59	5.420G	60	5.277G
61	5.562G	62	5.683G	63	5.309G	64	5.438G
65	5.474G	66	5.383G	67	5.674G	68	5.655G
69	5.480G	70	5.409G	71	5.341G	72	5.272G
73	5.550G	74	5.675G	75	5.685G	76	5.584G
77	5.397G	78	5.724G	79	5.692G	80	5.463G
81	5.431G	82	5.482G	83	5.471G	84	5.534G
85	5.478G	86	5.560G	87	5.251G	88	5.548G
89	5.496G	90	5.437G	91	5.583G	92	5.599G
93	5.568G	94	5.275G	95	5.528G	96	5.595G
97	5.346G	98	5.308G	99	5.648G	100	5.303G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_26							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.275G	2	5.612G	3	5.257G	4	5.481G
5	5.413G	6	5.552G	7	5.322G	8	5.682G
9	5.356G	10	5.419G	11	5.573G	12	5.281G
13	5.511G	14	5.496G	15	5.653G	16	5.665G
17	5.517G	18	5.644G	19	5.572G	20	5.584G
21	5.279G	22	5.307G	23	5.295G	24	5.497G
25	5.473G	26	5.641G	27	5.269G	28	5.650G
29	5.567G	30	5.401G	31	5.514G	32	5.367G
33	5.450G	34	5.540G	35	5.357G	36	5.403G
37	5.296G	38	5.374G	39	5.442G	40	5.331G
41	5.586G	42	5.452G	43	5.384G	44	5.391G
45	5.330G	46	5.429G	47	5.663G	48	5.426G



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49	5.590G	50	5.478G	51	5.673G	52	5.557G
53	5.412G	54	5.364G	55	5.667G	56	5.621G
57	5.601G	58	5.503G	59	5.664G	60	5.722G
61	5.254G	62	5.299G	63	5.348G	64	5.683G
65	5.321G	66	5.531G	67	5.574G	68	5.386G
69	5.627G	70	5.436G	71	5.358G	72	5.558G
73	5.479G	74	5.278G	75	5.369G	76	5.319G
77	5.262G	78	5.480G	79	5.484G	80	5.710G
81	5.539G	82	5.341G	83	5.378G	84	5.532G
85	5.624G	86	5.602G	87	5.498G	88	5.439G
89	5.463G	90	5.594G	91	5.661G	92	5.691G
93	5.549G	94	5.274G	95	5.606G	96	5.267G
97	5.626G	98	5.329G	99	5.530G	100	5.360G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_27							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.339G	2	5.404G	3	5.305G	4	5.409G
5	5.607G	6	5.317G	7	5.384G	8	5.399G
9	5.664G	10	5.567G	11	5.371G	12	5.392G
13	5.310G	14	5.526G	15	5.297G	16	5.370G
17	5.263G	18	5.342G	19	5.397G	20	5.299G
21	5.570G	22	5.588G	23	5.667G	24	5.359G
25	5.495G	26	5.720G	27	5.405G	28	5.637G
29	5.368G	30	5.471G	31	5.475G	32	5.447G
33	5.579G	34	5.678G	35	5.366G	36	5.281G
37	5.466G	38	5.300G	39	5.277G	40	5.487G
41	5.364G	42	5.670G	43	5.332G	44	5.357G
45	5.712G	46	5.336G	47	5.308G	48	5.595G
49	5.672G	50	5.527G	51	5.437G	52	5.288G
53	5.596G	54	5.669G	55	5.413G	56	5.452G
57	5.338G	58	5.510G	59	5.480G	60	5.484G
61	5.363G	62	5.693G	63	5.289G	64	5.362G
65	5.312G	66	5.432G	67	5.293G	68	5.429G
69	5.533G	70	5.589G	71	5.456G	72	5.349G
73	5.449G	74	5.273G	75	5.675G	76	5.716G
77	5.307G	78	5.610G	79	5.473G	80	5.598G
81	5.642G	82	5.603G	83	5.715G	84	5.333G
85	5.517G	86	5.654G	87	5.519G	88	5.542G
89	5.639G	90	5.665G	91	5.256G	92	5.679G
93	5.724G	94	5.423G	95	5.422G	96	5.439G
97	5.561G	98	5.705G	99	5.441G	100	5.686G



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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_28							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.359G	2	5.545G	3	5.642G	4	5.677G
5	5.619G	6	5.381G	7	5.431G	8	5.590G
9	5.412G	10	5.267G	11	5.299G	12	5.580G
13	5.714G	14	5.374G	15	5.371G	16	5.502G
17	5.317G	18	5.635G	19	5.349G	20	5.651G
21	5.291G	22	5.549G	23	5.297G	24	5.277G
25	5.675G	26	5.274G	27	5.544G	28	5.296G
29	5.659G	30	5.281G	31	5.625G	32	5.605G
33	5.449G	34	5.645G	35	5.680G	36	5.419G
37	5.630G	38	5.484G	39	5.583G	40	5.377G
41	5.460G	42	5.555G	43	5.612G	44	5.552G
45	5.541G	46	5.423G	47	5.600G	48	5.599G
49	5.606G	50	5.348G	51	5.303G	52	5.603G
53	5.378G	54	5.584G	55	5.396G	56	5.263G
57	5.459G	58	5.559G	59	5.306G	60	5.375G
61	5.628G	62	5.648G	63	5.438G	64	5.582G
65	5.494G	66	5.442G	67	5.411G	68	5.578G
69	5.258G	70	5.710G	71	5.307G	72	5.252G
73	5.666G	74	5.295G	75	5.279G	76	5.434G
77	5.311G	78	5.593G	79	5.474G	80	5.720G
81	5.269G	82	5.331G	83	5.613G	84	5.327G
85	5.433G	86	5.489G	87	5.707G	88	5.684G
89	5.260G	90	5.289G	91	5.360G	92	5.723G
93	5.443G	94	5.682G	95	5.497G	96	5.633G
97	5.278G	98	5.273G	99	5.357G	100	5.598G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_29							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.409G	2	5.435G	3	5.652G	4	5.560G
5	5.495G	6	5.277G	7	5.387G	8	5.512G
9	5.714G	10	5.436G	11	5.480G	12	5.468G
13	5.715G	14	5.522G	15	5.274G	16	5.596G
17	5.543G	18	5.646G	19	5.679G	20	5.392G
21	5.481G	22	5.329G	23	5.488G	24	5.573G
25	5.520G	26	5.363G	27	5.337G	28	5.355G
29	5.687G	30	5.450G	31	5.674G	32	5.441G
33	5.615G	34	5.272G	35	5.673G	36	5.412G
37	5.645G	38	5.537G	39	5.654G	40	5.655G
41	5.482G	42	5.419G	43	5.526G	44	5.672G
45	5.605G	46	5.568G	47	5.302G	48	5.313G



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49	5.370G	50	5.317G	51	5.536G	52	5.381G
53	5.464G	54	5.459G	55	5.399G	56	5.368G
57	5.398G	58	5.489G	59	5.601G	60	5.722G
61	5.322G	62	5.334G	63	5.662G	64	5.555G
65	5.534G	66	5.423G	67	5.259G	68	5.558G
69	5.303G	70	5.418G	71	5.533G	72	5.486G
73	5.454G	74	5.403G	75	5.576G	76	5.460G
77	5.293G	78	5.620G	79	5.394G	80	5.640G
81	5.626G	82	5.503G	83	5.505G	84	5.336G
85	5.446G	86	5.693G	87	5.413G	88	5.677G
89	5.593G	90	5.278G	91	5.531G	92	5.641G
93	5.264G	94	5.571G	95	5.422G	96	5.373G
97	5.633G	98	5.668G	99	5.414G	100	5.462G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT20_30							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.379G	2	5.443G	3	5.646G	4	5.317G
5	5.333G	6	5.498G	7	5.335G	8	5.721G
9	5.546G	10	5.257G	11	5.353G	12	5.581G
13	5.626G	14	5.564G	15	5.525G	16	5.464G
17	5.287G	18	5.396G	19	5.544G	20	5.603G
21	5.436G	22	5.337G	23	5.523G	24	5.435G
25	5.399G	26	5.472G	27	5.711G	28	5.622G
29	5.265G	30	5.612G	31	5.565G	32	5.550G
33	5.621G	34	5.637G	35	5.673G	36	5.533G
37	5.258G	38	5.413G	39	5.321G	40	5.635G
41	5.424G	42	5.407G	43	5.264G	44	5.493G
45	5.308G	46	5.291G	47	5.664G	48	5.658G
49	5.702G	50	5.631G	51	5.469G	52	5.292G
53	5.449G	54	5.416G	55	5.600G	56	5.642G
57	5.483G	58	5.433G	59	5.262G	60	5.394G
61	5.511G	62	5.344G	63	5.312G	64	5.460G
65	5.534G	66	5.568G	67	5.364G	68	5.410G
69	5.624G	70	5.656G	71	5.686G	72	5.666G
73	5.609G	74	5.661G	75	5.585G	76	5.486G
77	5.616G	78	5.625G	79	5.557G	80	5.497G
81	5.521G	82	5.348G	83	5.254G	84	5.489G
85	5.427G	86	5.376G	87	5.674G	88	5.532G
89	5.393G	90	5.487G	91	5.649G	92	5.714G
93	5.296G	94	5.540G	95	5.669G	96	5.282G
97	5.272G	98	5.604G	99	5.515G	100	5.457G



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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_01

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.520G	2	5.366G	3	5.429G	4	5.718G
5	5.339G	6	5.639G	7	5.459G	8	5.471G
9	5.706G	10	5.564G	11	5.588G	12	5.618G
13	5.457G	14	5.346G	15	5.385G	16	5.552G
17	5.608G	18	5.714G	19	5.321G	20	5.690G
21	5.509G	22	5.473G	23	5.579G	24	5.296G
25	5.655G	26	5.687G	27	5.464G	28	5.573G
29	5.394G	30	5.528G	31	5.710G	32	5.644G
33	5.307G	34	5.615G	35	5.594G	36	5.633G
37	5.341G	38	5.445G	39	5.685G	40	5.525G
41	5.479G	42	5.298G	43	5.517G	44	5.256G
45	5.697G	46	5.456G	47	5.499G	48	5.297G
49	5.393G	50	5.454G	51	5.496G	52	5.518G
53	5.397G	54	5.446G	55	5.271G	56	5.369G
57	5.532G	58	5.490G	59	5.461G	60	5.406G
61	5.279G	62	5.681G	63	5.491G	64	5.382G
65	5.531G	66	5.574G	67	5.439G	68	5.704G
69	5.433G	70	5.562G	71	5.646G	72	5.254G
73	5.578G	74	5.340G	75	5.329G	76	5.584G
77	5.426G	78	5.670G	79	5.313G	80	5.330G
81	5.251G	82	5.290G	83	5.546G	84	5.677G
85	5.550G	86	5.675G	87	5.278G	88	5.498G
89	5.630G	90	5.458G	91	5.415G	92	5.700G
93	5.551G	94	5.453G	95	5.338G	96	5.627G
97	5.409G	98	5.643G	99	5.404G	100	5.463G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_02

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.466G	2	5.657G	3	5.402G	4	5.421G
5	5.702G	6	5.388G	7	5.632G	8	5.322G
9	5.557G	10	5.609G	11	5.386G	12	5.663G
13	5.546G	14	5.406G	15	5.564G	16	5.339G
17	5.636G	18	5.650G	19	5.566G	20	5.599G
21	5.440G	22	5.370G	23	5.472G	24	5.610G
25	5.326G	26	5.305G	27	5.644G	28	5.449G
29	5.573G	30	5.687G	31	5.318G	32	5.361G
33	5.308G	34	5.563G	35	5.618G	36	5.461G
37	5.720G	38	5.401G	39	5.433G	40	5.589G
41	5.304G	42	5.698G	43	5.306G	44	5.719G
45	5.438G	46	5.617G	47	5.613G	48	5.364G
49	5.256G	50	5.685G	51	5.688G	52	5.313G



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53	5.653G	54	5.587G	55	5.360G	56	5.311G
57	5.592G	58	5.588G	59	5.574G	60	5.362G
61	5.534G	62	5.255G	63	5.575G	64	5.484G
65	5.366G	66	5.641G	67	5.460G	68	5.252G
69	5.492G	70	5.490G	71	5.425G	72	5.518G
73	5.413G	74	5.604G	75	5.471G	76	5.614G
77	5.711G	78	5.660G	79	5.558G	80	5.499G
81	5.409G	82	5.600G	83	5.679G	84	5.310G
85	5.530G	86	5.464G	87	5.384G	88	5.441G
89	5.714G	90	5.554G	91	5.715G	92	5.590G
93	5.354G	94	5.281G	95	5.258G	96	5.646G
97	5.349G	98	5.676G	99	5.266G	100	5.376G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_03							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.435G	2	5.585G	3	5.614G	4	5.257G
5	5.387G	6	5.351G	7	5.722G	8	5.524G
9	5.383G	10	5.278G	11	5.587G	12	5.287G
13	5.261G	14	5.429G	15	5.564G	16	5.284G
17	5.673G	18	5.367G	19	5.475G	20	5.624G
21	5.328G	22	5.441G	23	5.327G	24	5.432G
25	5.708G	26	5.469G	27	5.716G	28	5.606G
29	5.502G	30	5.667G	31	5.566G	32	5.377G
33	5.285G	34	5.296G	35	5.481G	36	5.640G
37	5.336G	38	5.542G	39	5.597G	40	5.544G
41	5.543G	42	5.487G	43	5.662G	44	5.331G
45	5.646G	46	5.456G	47	5.322G	48	5.512G
49	5.604G	50	5.581G	51	5.253G	52	5.472G
53	5.562G	54	5.350G	55	5.251G	56	5.504G
57	5.676G	58	5.675G	59	5.509G	60	5.256G
61	5.427G	62	5.622G	63	5.319G	64	5.535G
65	5.295G	66	5.264G	67	5.302G	68	5.433G
69	5.605G	70	5.442G	71	5.660G	72	5.549G
73	5.413G	74	5.717G	75	5.369G	76	5.269G
77	5.308G	78	5.586G	79	5.293G	80	5.399G
81	5.648G	82	5.485G	83	5.262G	84	5.462G
85	5.704G	86	5.505G	87	5.584G	88	5.420G
89	5.255G	90	5.707G	91	5.627G	92	5.483G
93	5.317G	94	5.611G	95	5.607G	96	5.311G
97	5.520G	98	5.687G	99	5.479G	100	5.723G



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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_04							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.703G	2	5.485G	3	5.534G	4	5.579G
5	5.332G	6	5.604G	7	5.704G	8	5.366G
9	5.487G	10	5.474G	11	5.698G	12	5.583G
13	5.399G	14	5.723G	15	5.603G	16	5.386G
17	5.416G	18	5.717G	19	5.532G	20	5.361G
21	5.376G	22	5.692G	23	5.446G	24	5.521G
25	5.268G	26	5.428G	27	5.402G	28	5.434G
29	5.491G	30	5.356G	31	5.459G	32	5.567G
33	5.587G	34	5.346G	35	5.615G	36	5.307G
37	5.469G	38	5.312G	39	5.254G	40	5.517G
41	5.463G	42	5.724G	43	5.544G	44	5.400G
45	5.655G	46	5.297G	47	5.273G	48	5.618G
49	5.640G	50	5.636G	51	5.293G	52	5.345G
53	5.414G	54	5.540G	55	5.264G	56	5.520G
57	5.498G	58	5.303G	59	5.355G	60	5.275G
61	5.610G	62	5.261G	63	5.320G	64	5.665G
65	5.490G	66	5.664G	67	5.373G	68	5.614G
69	5.365G	70	5.252G	71	5.432G	72	5.568G
73	5.385G	74	5.398G	75	5.306G	76	5.311G
77	5.299G	78	5.375G	79	5.708G	80	5.550G
81	5.707G	82	5.528G	83	5.571G	84	5.350G
85	5.472G	86	5.250G	87	5.304G	88	5.679G
89	5.676G	90	5.641G	91	5.561G	92	5.619G
93	5.673G	94	5.482G	95	5.716G	96	5.516G
97	5.413G	98	5.492G	99	5.682G	100	5.336G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_05							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.717G	2	5.562G	3	5.646G	4	5.615G
5	5.314G	6	5.674G	7	5.472G	8	5.420G
9	5.663G	10	5.484G	11	5.681G	12	5.473G
13	5.623G	14	5.498G	15	5.642G	16	5.280G
17	5.686G	18	5.689G	19	5.705G	20	5.400G
21	5.358G	22	5.483G	23	5.501G	24	5.557G
25	5.323G	26	5.497G	27	5.678G	28	5.469G
29	5.688G	30	5.416G	31	5.408G	32	5.405G
33	5.617G	34	5.385G	35	5.720G	36	5.331G
37	5.546G	38	5.290G	39	5.650G	40	5.318G
41	5.552G	42	5.361G	43	5.351G	44	5.580G
45	5.633G	46	5.602G	47	5.560G	48	5.504G



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49	5.449G	50	5.346G	51	5.589G	52	5.344G
53	5.471G	54	5.478G	55	5.516G	56	5.476G
57	5.340G	58	5.669G	59	5.566G	60	5.624G
61	5.291G	62	5.459G	63	5.593G	64	5.419G
65	5.513G	66	5.354G	67	5.565G	68	5.456G
69	5.597G	70	5.386G	71	5.443G	72	5.604G
73	5.701G	74	5.264G	75	5.356G	76	5.607G
77	5.694G	78	5.651G	79	5.554G	80	5.599G
81	5.535G	82	5.327G	83	5.713G	84	5.436G
85	5.266G	86	5.384G	87	5.569G	88	5.383G
89	5.365G	90	5.461G	91	5.571G	92	5.475G
93	5.523G	94	5.692G	95	5.430G	96	5.477G
97	5.683G	98	5.357G	99	5.415G	100	5.575G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_06							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.315G	2	5.504G	3	5.293G	4	5.630G
5	5.704G	6	5.483G	7	5.372G	8	5.608G
9	5.720G	10	5.581G	11	5.724G	12	5.510G
13	5.294G	14	5.714G	15	5.675G	16	5.327G
17	5.488G	18	5.625G	19	5.684G	20	5.557G
21	5.646G	22	5.495G	23	5.341G	24	5.629G
25	5.388G	26	5.702G	27	5.453G	28	5.534G
29	5.669G	30	5.432G	31	5.308G	32	5.571G
33	5.664G	34	5.257G	35	5.416G	36	5.661G
37	5.284G	38	5.396G	39	5.499G	40	5.403G
41	5.338G	42	5.336G	43	5.605G	44	5.256G
45	5.469G	46	5.287G	47	5.620G	48	5.460G
49	5.539G	50	5.253G	51	5.672G	52	5.290G
53	5.306G	54	5.292G	55	5.617G	56	5.585G
57	5.574G	58	5.555G	59	5.479G	60	5.680G
61	5.285G	62	5.425G	63	5.692G	64	5.283G
65	5.596G	66	5.656G	67	5.357G	68	5.252G
69	5.452G	70	5.296G	71	5.686G	72	5.312G
73	5.567G	74	5.439G	75	5.591G	76	5.434G
77	5.427G	78	5.454G	79	5.543G	80	5.423G
81	5.390G	82	5.649G	83	5.560G	84	5.281G
85	5.609G	86	5.289G	87	5.324G	88	5.472G
89	5.485G	90	5.261G	91	5.497G	92	5.339G
93	5.476G	94	5.349G	95	5.461G	96	5.305G
97	5.507G	98	5.474G	99	5.381G	100	5.523G



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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_07							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.625G	2	5.692G	3	5.723G	4	5.611G
5	5.635G	6	5.709G	7	5.560G	8	5.585G
9	5.683G	10	5.308G	11	5.384G	12	5.328G
13	5.565G	14	5.393G	15	5.678G	16	5.509G
17	5.424G	18	5.344G	19	5.668G	20	5.456G
21	5.636G	22	5.438G	23	5.622G	24	5.524G
25	5.282G	26	5.289G	27	5.706G	28	5.627G
29	5.615G	30	5.467G	31	5.589G	32	5.329G
33	5.652G	34	5.575G	35	5.275G	36	5.659G
37	5.626G	38	5.343G	39	5.284G	40	5.591G
41	5.698G	42	5.469G	43	5.411G	44	5.321G
45	5.580G	46	5.301G	47	5.644G	48	5.379G
49	5.581G	50	5.557G	51	5.368G	52	5.266G
53	5.596G	54	5.534G	55	5.265G	56	5.311G
57	5.482G	58	5.702G	59	5.576G	60	5.465G
61	5.604G	62	5.572G	63	5.313G	64	5.496G
65	5.497G	66	5.277G	67	5.691G	68	5.712G
69	5.700G	70	5.351G	71	5.371G	72	5.341G
73	5.271G	74	5.413G	75	5.317G	76	5.254G
77	5.451G	78	5.504G	79	5.703G	80	5.669G
81	5.641G	82	5.486G	83	5.643G	84	5.656G
85	5.373G	86	5.539G	87	5.405G	88	5.553G
89	5.721G	90	5.370G	91	5.294G	92	5.257G
93	5.722G	94	5.376G	95	5.588G	96	5.326G
97	5.563G	98	5.459G	99	5.273G	100	5.296G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_08							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.313G	2	5.435G	3	5.511G	4	5.372G
5	5.253G	6	5.276G	7	5.555G	8	5.416G
9	5.287G	10	5.513G	11	5.567G	12	5.583G
13	5.632G	14	5.309G	15	5.357G	16	5.299G
17	5.459G	18	5.678G	19	5.556G	20	5.298G
21	5.444G	22	5.628G	23	5.694G	24	5.612G
25	5.530G	26	5.432G	27	5.272G	28	5.677G
29	5.484G	30	5.458G	31	5.475G	32	5.552G
33	5.627G	34	5.577G	35	5.438G	36	5.490G
37	5.359G	38	5.608G	39	5.595G	40	5.307G
41	5.582G	42	5.515G	43	5.716G	44	5.480G
45	5.548G	46	5.645G	47	5.631G	48	5.443G



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49	5.479G	50	5.473G	51	5.250G	52	5.380G
53	5.525G	54	5.684G	55	5.603G	56	5.373G
57	5.362G	58	5.340G	59	5.581G	60	5.259G
61	5.688G	62	5.569G	63	5.461G	64	5.488G
65	5.547G	66	5.640G	67	5.553G	68	5.288G
69	5.557G	70	5.720G	71	5.433G	72	5.503G
73	5.541G	74	5.620G	75	5.295G	76	5.674G
77	5.292G	78	5.465G	79	5.316G	80	5.363G
81	5.411G	82	5.451G	83	5.721G	84	5.611G
85	5.337G	86	5.609G	87	5.648G	88	5.367G
89	5.486G	90	5.672G	91	5.384G	92	5.591G
93	5.722G	94	5.508G	95	5.584G	96	5.467G
97	5.574G	98	5.504G	99	5.622G	100	5.470G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_09							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.655G	2	5.656G	3	5.269G	4	5.432G
5	5.626G	6	5.719G	7	5.629G	8	5.254G
9	5.438G	10	5.381G	11	5.701G	12	5.472G
13	5.523G	14	5.407G	15	5.420G	16	5.464G
17	5.339G	18	5.291G	19	5.659G	20	5.612G
21	5.341G	22	5.545G	23	5.418G	24	5.307G
25	5.704G	26	5.595G	27	5.423G	28	5.477G
29	5.571G	30	5.613G	31	5.327G	32	5.318G
33	5.284G	34	5.679G	35	5.598G	36	5.460G
37	5.497G	38	5.670G	39	5.512G	40	5.252G
41	5.532G	42	5.380G	43	5.559G	44	5.677G
45	5.305G	46	5.369G	47	5.557G	48	5.632G
49	5.388G	50	5.475G	51	5.358G	52	5.366G
53	5.495G	54	5.564G	55	5.322G	56	5.316G
57	5.321G	58	5.395G	59	5.324G	60	5.722G
61	5.579G	62	5.403G	63	5.496G	64	5.295G
65	5.585G	66	5.630G	67	5.416G	68	5.645G
69	5.336G	70	5.713G	71	5.309G	72	5.385G
73	5.718G	74	5.301G	75	5.352G	76	5.397G
77	5.715G	78	5.364G	79	5.535G	80	5.434G
81	5.594G	82	5.671G	83	5.657G	84	5.326G
85	5.283G	86	5.450G	87	5.567G	88	5.695G
89	5.367G	90	5.625G	91	5.635G	92	5.511G
93	5.442G	94	5.363G	95	5.258G	96	5.441G
97	5.267G	98	5.633G	99	5.544G	100	5.642G



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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_10							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.321G	2	5.428G	3	5.665G	4	5.435G
5	5.336G	6	5.716G	7	5.555G	8	5.623G
9	5.630G	10	5.525G	11	5.418G	12	5.709G
13	5.530G	14	5.464G	15	5.284G	16	5.539G
17	5.547G	18	5.429G	19	5.653G	20	5.424G
21	5.272G	22	5.681G	23	5.278G	24	5.640G
25	5.334G	26	5.670G	27	5.617G	28	5.651G
29	5.603G	30	5.589G	31	5.401G	32	5.569G
33	5.299G	34	5.313G	35	5.394G	36	5.568G
37	5.694G	38	5.532G	39	5.711G	40	5.693G
41	5.703G	42	5.485G	43	5.399G	44	5.283G
45	5.606G	46	5.695G	47	5.372G	48	5.319G
49	5.635G	50	5.412G	51	5.455G	52	5.376G
53	5.518G	54	5.549G	55	5.713G	56	5.250G
57	5.317G	58	5.368G	59	5.545G	60	5.707G
61	5.704G	62	5.403G	63	5.663G	64	5.404G
65	5.576G	66	5.263G	67	5.578G	68	5.721G
69	5.585G	70	5.680G	71	5.638G	72	5.355G
73	5.366G	74	5.363G	75	5.371G	76	5.672G
77	5.556G	78	5.509G	79	5.369G	80	5.307G
81	5.361G	82	5.445G	83	5.495G	84	5.619G
85	5.352G	86	5.678G	87	5.446G	88	5.337G
89	5.354G	90	5.282G	91	5.533G	92	5.295G
93	5.699G	94	5.437G	95	5.340G	96	5.289G
97	5.507G	98	5.302G	99	5.454G	100	5.345G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_11							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.463G	2	5.262G	3	5.498G	4	5.576G
5	5.341G	6	5.514G	7	5.431G	8	5.429G
9	5.641G	10	5.556G	11	5.674G	12	5.536G
13	5.487G	14	5.513G	15	5.636G	16	5.564G
17	5.333G	18	5.462G	19	5.321G	20	5.314G
21	5.629G	22	5.367G	23	5.543G	24	5.634G
25	5.612G	26	5.605G	27	5.254G	28	5.439G
29	5.316G	30	5.643G	31	5.531G	32	5.590G
33	5.630G	34	5.582G	35	5.266G	36	5.541G
37	5.276G	38	5.393G	39	5.667G	40	5.515G
41	5.268G	42	5.471G	43	5.252G	44	5.250G
45	5.259G	46	5.655G	47	5.535G	48	5.720G



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49	5.676G	50	5.571G	51	5.606G	52	5.472G
53	5.486G	54	5.604G	55	5.508G	56	5.337G
57	5.713G	58	5.551G	59	5.278G	60	5.568G
61	5.668G	62	5.697G	63	5.339G	64	5.585G
65	5.378G	66	5.549G	67	5.253G	68	5.703G
69	5.402G	70	5.644G	71	5.338G	72	5.354G
73	5.637G	74	5.669G	75	5.663G	76	5.620G
77	5.544G	78	5.422G	79	5.691G	80	5.385G
81	5.308G	82	5.391G	83	5.719G	84	5.633G
85	5.418G	86	5.575G	87	5.692G	88	5.448G
89	5.579G	90	5.363G	91	5.320G	92	5.702G
93	5.490G	94	5.399G	95	5.451G	96	5.440G
97	5.626G	98	5.374G	99	5.718G	100	5.593G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_12							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.404G	2	5.421G	3	5.611G	4	5.674G
5	5.575G	6	5.491G	7	5.347G	8	5.398G
9	5.708G	10	5.448G	11	5.481G	12	5.334G
13	5.470G	14	5.389G	15	5.414G	16	5.684G
17	5.300G	18	5.711G	19	5.706G	20	5.500G
21	5.644G	22	5.567G	23	5.475G	24	5.515G
25	5.613G	26	5.350G	27	5.363G	28	5.626G
29	5.471G	30	5.694G	31	5.387G	32	5.487G
33	5.642G	34	5.566G	35	5.547G	36	5.461G
37	5.599G	38	5.357G	39	5.577G	40	5.290G
41	5.578G	42	5.322G	43	5.273G	44	5.376G
45	5.501G	46	5.449G	47	5.509G	48	5.647G
49	5.252G	50	5.283G	51	5.650G	52	5.701G
53	5.559G	54	5.280G	55	5.409G	56	5.314G
57	5.326G	58	5.529G	59	5.610G	60	5.628G
61	5.311G	62	5.431G	63	5.405G	64	5.573G
65	5.349G	66	5.667G	67	5.721G	68	5.469G
69	5.348G	70	5.703G	71	5.603G	72	5.571G
73	5.653G	74	5.308G	75	5.629G	76	5.293G
77	5.658G	78	5.292G	79	5.550G	80	5.646G
81	5.617G	82	5.507G	83	5.436G	84	5.433G
85	5.525G	86	5.371G	87	5.722G	88	5.356G
89	5.362G	90	5.580G	91	5.533G	92	5.715G
93	5.593G	94	5.601G	95	5.614G	96	5.397G
97	5.504G	98	5.370G	99	5.716G	100	5.263G



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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_13							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.509G	2	5.610G	3	5.719G	4	5.485G
5	5.353G	6	5.575G	7	5.348G	8	5.604G
9	5.308G	10	5.436G	11	5.462G	12	5.484G
13	5.380G	14	5.537G	15	5.429G	16	5.428G
17	5.552G	18	5.472G	19	5.346G	20	5.327G
21	5.470G	22	5.480G	23	5.295G	24	5.631G
25	5.288G	26	5.331G	27	5.385G	28	5.567G
29	5.549G	30	5.350G	31	5.269G	32	5.376G
33	5.324G	34	5.656G	35	5.272G	36	5.446G
37	5.322G	38	5.328G	39	5.474G	40	5.284G
41	5.593G	42	5.503G	43	5.668G	44	5.481G
45	5.364G	46	5.632G	47	5.441G	48	5.482G
49	5.506G	50	5.600G	51	5.639G	52	5.688G
53	5.675G	54	5.304G	55	5.489G	56	5.463G
57	5.468G	58	5.302G	59	5.711G	60	5.496G
61	5.710G	62	5.370G	63	5.367G	64	5.452G
65	5.305G	66	5.588G	67	5.431G	68	5.339G
69	5.663G	70	5.264G	71	5.263G	72	5.252G
73	5.598G	74	5.522G	75	5.271G	76	5.665G
77	5.561G	78	5.560G	79	5.253G	80	5.424G
81	5.303G	82	5.633G	83	5.382G	84	5.723G
85	5.341G	86	5.705G	87	5.268G	88	5.343G
89	5.602G	90	5.695G	91	5.553G	92	5.420G
93	5.619G	94	5.524G	95	5.440G	96	5.637G
97	5.340G	98	5.532G	99	5.360G	100	5.592G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_14							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.645G	2	5.376G	3	5.279G	4	5.573G
5	5.331G	6	5.505G	7	5.580G	8	5.646G
9	5.316G	10	5.502G	11	5.320G	12	5.708G
13	5.480G	14	5.615G	15	5.277G	16	5.433G
17	5.662G	18	5.644G	19	5.643G	20	5.278G
21	5.418G	22	5.407G	23	5.312G	24	5.606G
25	5.538G	26	5.518G	27	5.709G	28	5.322G
29	5.444G	30	5.321G	31	5.309G	32	5.365G
33	5.640G	34	5.653G	35	5.335G	36	5.451G
37	5.324G	38	5.341G	39	5.557G	40	5.536G
41	5.528G	42	5.545G	43	5.500G	44	5.488G
45	5.400G	46	5.467G	47	5.382G	48	5.624G



A D T

49	5.614G	50	5.586G	51	5.357G	52	5.652G
53	5.338G	54	5.425G	55	5.465G	56	5.667G
57	5.483G	58	5.347G	59	5.671G	60	5.623G
61	5.340G	62	5.650G	63	5.595G	64	5.577G
65	5.570G	66	5.300G	67	5.468G	68	5.683G
69	5.642G	70	5.385G	71	5.599G	72	5.420G
73	5.612G	74	5.556G	75	5.682G	76	5.579G
77	5.553G	78	5.647G	79	5.250G	80	5.578G
81	5.687G	82	5.715G	83	5.571G	84	5.659G
85	5.274G	86	5.363G	87	5.304G	88	5.283G
89	5.711G	90	5.723G	91	5.403G	92	5.289G
93	5.386G	94	5.351G	95	5.292G	96	5.313G
97	5.544G	98	5.354G	99	5.632G	100	5.677G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_15							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.592G	2	5.401G	3	5.501G	4	5.462G
5	5.698G	6	5.691G	7	5.464G	8	5.268G
9	5.355G	10	5.520G	11	5.715G	12	5.402G
13	5.672G	14	5.541G	15	5.473G	16	5.496G
17	5.595G	18	5.706G	19	5.681G	20	5.333G
21	5.678G	22	5.342G	23	5.510G	24	5.415G
25	5.384G	26	5.371G	27	5.589G	28	5.365G
29	5.606G	30	5.644G	31	5.434G	32	5.703G
33	5.536G	34	5.581G	35	5.360G	36	5.628G
37	5.354G	38	5.646G	39	5.657G	40	5.309G
41	5.566G	42	5.426G	43	5.573G	44	5.295G
45	5.436G	46	5.385G	47	5.712G	48	5.616G
49	5.319G	50	5.593G	51	5.256G	52	5.259G
53	5.609G	54	5.457G	55	5.451G	56	5.474G
57	5.596G	58	5.507G	59	5.631G	60	5.692G
61	5.289G	62	5.553G	63	5.286G	64	5.689G
65	5.306G	66	5.328G	67	5.525G	68	5.714G
69	5.579G	70	5.281G	71	5.403G	72	5.387G
73	5.666G	74	5.531G	75	5.499G	76	5.351G
77	5.480G	78	5.497G	79	5.590G	80	5.537G
81	5.363G	82	5.304G	83	5.514G	84	5.257G
85	5.685G	86	5.400G	87	5.379G	88	5.686G
89	5.323G	90	5.443G	91	5.327G	92	5.679G
93	5.619G	94	5.516G	95	5.450G	96	5.532G
97	5.565G	98	5.483G	99	5.481G	100	5.503G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_16							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.610G	2	5.700G	3	5.348G	4	5.409G
5	5.646G	6	5.426G	7	5.471G	8	5.543G
9	5.625G	10	5.334G	11	5.511G	12	5.418G
13	5.477G	14	5.660G	15	5.274G	16	5.365G
17	5.404G	18	5.338G	19	5.393G	20	5.536G
21	5.407G	22	5.319G	23	5.440G	24	5.439G
25	5.611G	26	5.367G	27	5.491G	28	5.448G
29	5.544G	30	5.276G	31	5.710G	32	5.453G
33	5.709G	34	5.271G	35	5.253G	36	5.619G
37	5.508G	38	5.475G	39	5.296G	40	5.277G
41	5.317G	42	5.345G	43	5.520G	44	5.641G
45	5.629G	46	5.603G	47	5.551G	48	5.571G
49	5.283G	50	5.330G	51	5.472G	52	5.467G
53	5.644G	54	5.667G	55	5.455G	56	5.388G
57	5.285G	58	5.622G	59	5.307G	60	5.642G
61	5.553G	62	5.510G	63	5.482G	64	5.260G
65	5.702G	66	5.460G	67	5.310G	68	5.583G
69	5.618G	70	5.488G	71	5.490G	72	5.570G
73	5.342G	74	5.661G	75	5.513G	76	5.311G
77	5.287G	78	5.501G	79	5.450G	80	5.631G
81	5.258G	82	5.597G	83	5.524G	84	5.674G
85	5.671G	86	5.413G	87	5.415G	88	5.349G
89	5.599G	90	5.677G	91	5.707G	92	5.391G
93	5.262G	94	5.703G	95	5.290G	96	5.498G
97	5.538G	98	5.507G	99	5.668G	100	5.294G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_17							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.381G	2	5.499G	3	5.478G	4	5.705G
5	5.616G	6	5.640G	7	5.426G	8	5.533G
9	5.371G	10	5.414G	11	5.264G	12	5.424G
13	5.716G	14	5.509G	15	5.563G	16	5.338G
17	5.471G	18	5.594G	19	5.550G	20	5.336G
21	5.690G	22	5.355G	23	5.433G	24	5.546G
25	5.464G	26	5.656G	27	5.618G	28	5.658G
29	5.489G	30	5.411G	31	5.430G	32	5.704G
33	5.521G	34	5.528G	35	5.349G	36	5.354G
37	5.689G	38	5.680G	39	5.715G	40	5.386G
41	5.345G	42	5.425G	43	5.485G	44	5.537G
45	5.541G	46	5.579G	47	5.428G	48	5.671G



A D T

49	5.461G	50	5.678G	51	5.328G	52	5.534G
53	5.518G	54	5.301G	55	5.267G	56	5.276G
57	5.356G	58	5.325G	59	5.333G	60	5.466G
61	5.280G	62	5.334G	63	5.691G	64	5.432G
65	5.419G	66	5.321G	67	5.601G	68	5.505G
69	5.330G	70	5.402G	71	5.448G	72	5.415G
73	5.607G	74	5.497G	75	5.435G	76	5.649G
77	5.636G	78	5.404G	79	5.357G	80	5.604G
81	5.506G	82	5.353G	83	5.368G	84	5.696G
85	5.664G	86	5.370G	87	5.279G	88	5.449G
89	5.437G	90	5.510G	91	5.558G	92	5.480G
93	5.282G	94	5.263G	95	5.323G	96	5.403G
97	5.597G	98	5.441G	99	5.562G	100	5.653G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_18							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.374G	2	5.290G	3	5.308G	4	5.425G
5	5.660G	6	5.400G	7	5.390G	8	5.542G
9	5.653G	10	5.670G	11	5.465G	12	5.449G
13	5.626G	14	5.638G	15	5.280G	16	5.272G
17	5.589G	18	5.489G	19	5.475G	20	5.706G
21	5.466G	22	5.604G	23	5.391G	24	5.507G
25	5.657G	26	5.497G	27	5.409G	28	5.482G
29	5.387G	30	5.621G	31	5.540G	32	5.301G
33	5.295G	34	5.577G	35	5.545G	36	5.284G
37	5.700G	38	5.562G	39	5.623G	40	5.338G
41	5.322G	42	5.647G	43	5.610G	44	5.708G
45	5.261G	46	5.267G	47	5.639G	48	5.510G
49	5.324G	50	5.461G	51	5.505G	52	5.394G
53	5.451G	54	5.704G	55	5.555G	56	5.531G
57	5.365G	58	5.270G	59	5.259G	60	5.314G
61	5.335G	62	5.553G	63	5.569G	64	5.380G
65	5.339G	66	5.416G	67	5.506G	68	5.630G
69	5.488G	70	5.320G	71	5.519G	72	5.525G
73	5.355G	74	5.464G	75	5.293G	76	5.622G
77	5.436G	78	5.544G	79	5.668G	80	5.294G
81	5.652G	82	5.688G	83	5.690G	84	5.692G
85	5.348G	86	5.309G	87	5.341G	88	5.699G
89	5.478G	90	5.342G	91	5.695G	92	5.712G
93	5.255G	94	5.371G	95	5.586G	96	5.397G
97	5.468G	98	5.469G	99	5.685G	100	5.350G



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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_19							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.719G	2	5.413G	3	5.419G	4	5.558G
5	5.671G	6	5.594G	7	5.711G	8	5.479G
9	5.506G	10	5.278G	11	5.605G	12	5.313G
13	5.680G	14	5.421G	15	5.674G	16	5.425G
17	5.299G	18	5.369G	19	5.262G	20	5.659G
21	5.720G	22	5.253G	23	5.635G	24	5.534G
25	5.438G	26	5.568G	27	5.390G	28	5.403G
29	5.402G	30	5.516G	31	5.651G	32	5.455G
33	5.457G	34	5.709G	35	5.582G	36	5.657G
37	5.672G	38	5.614G	39	5.286G	40	5.706G
41	5.603G	42	5.465G	43	5.619G	44	5.694G
45	5.293G	46	5.290G	47	5.547G	48	5.389G
49	5.321G	50	5.625G	51	5.360G	52	5.352G
53	5.394G	54	5.673G	55	5.476G	56	5.488G
57	5.666G	58	5.431G	59	5.404G	60	5.609G
61	5.346G	62	5.560G	63	5.284G	64	5.388G
65	5.663G	66	5.279G	67	5.257G	68	5.593G
69	5.692G	70	5.724G	71	5.639G	72	5.307G
73	5.655G	74	5.358G	75	5.436G	76	5.291G
77	5.433G	78	5.251G	79	5.456G	80	5.412G
81	5.620G	82	5.473G	83	5.690G	84	5.418G
85	5.350G	86	5.300G	87	5.296G	88	5.697G
89	5.414G	90	5.636G	91	5.250G	92	5.616G
93	5.376G	94	5.508G	95	5.384G	96	5.541G
97	5.447G	98	5.525G	99	5.478G	100	5.622G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_20							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.483G	2	5.470G	3	5.351G	4	5.299G
5	5.442G	6	5.648G	7	5.430G	8	5.684G
9	5.618G	10	5.509G	11	5.601G	12	5.702G
13	5.318G	14	5.260G	15	5.409G	16	5.466G
17	5.352G	18	5.343G	19	5.255G	20	5.254G
21	5.478G	22	5.613G	23	5.330G	24	5.401G
25	5.388G	26	5.542G	27	5.620G	28	5.344G
29	5.380G	30	5.711G	31	5.297G	32	5.518G
33	5.610G	34	5.419G	35	5.605G	36	5.691G
37	5.697G	38	5.585G	39	5.484G	40	5.689G
41	5.539G	42	5.354G	43	5.560G	44	5.690G
45	5.556G	46	5.505G	47	5.363G	48	5.604G



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49	5.502G	50	5.332G	51	5.529G	52	5.535G
53	5.292G	54	5.357G	55	5.482G	56	5.525G
57	5.312G	58	5.274G	59	5.558G	60	5.317G
61	5.417G	62	5.586G	63	5.562G	64	5.373G
65	5.404G	66	5.512G	67	5.676G	68	5.289G
69	5.346G	70	5.532G	71	5.656G	72	5.486G
73	5.721G	74	5.447G	75	5.369G	76	5.638G
77	5.324G	78	5.550G	79	5.553G	80	5.349G
81	5.256G	82	5.531G	83	5.664G	84	5.501G
85	5.573G	86	5.320G	87	5.686G	88	5.522G
89	5.265G	90	5.678G	91	5.422G	92	5.504G
93	5.636G	94	5.306G	95	5.498G	96	5.544G
97	5.334G	98	5.374G	99	5.596G	100	5.546G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_21							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.448G	2	5.355G	3	5.348G	4	5.618G
5	5.439G	6	5.673G	7	5.592G	8	5.478G
9	5.412G	10	5.562G	11	5.616G	12	5.453G
13	5.708G	14	5.383G	15	5.503G	16	5.314G
17	5.634G	18	5.598G	19	5.684G	20	5.570G
21	5.655G	22	5.288G	23	5.621G	24	5.331G
25	5.379G	26	5.264G	27	5.717G	28	5.275G
29	5.416G	30	5.641G	31	5.402G	32	5.427G
33	5.507G	34	5.308G	35	5.543G	36	5.460G
37	5.640G	38	5.285G	39	5.601G	40	5.582G
41	5.482G	42	5.672G	43	5.414G	44	5.292G
45	5.260G	46	5.369G	47	5.710G	48	5.280G
49	5.664G	50	5.550G	51	5.469G	52	5.637G
53	5.252G	54	5.713G	55	5.504G	56	5.670G
57	5.334G	58	5.397G	59	5.295G	60	5.677G
61	5.485G	62	5.638G	63	5.680G	64	5.547G
65	5.436G	66	5.694G	67	5.686G	68	5.575G
69	5.535G	70	5.429G	71	5.443G	72	5.445G
73	5.630G	74	5.571G	75	5.442G	76	5.409G
77	5.273G	78	5.404G	79	5.498G	80	5.509G
81	5.629G	82	5.468G	83	5.422G	84	5.588G
85	5.515G	86	5.531G	87	5.659G	88	5.676G
89	5.632G	90	5.395G	91	5.546G	92	5.715G
93	5.328G	94	5.354G	95	5.310G	96	5.657G
97	5.667G	98	5.586G	99	5.513G	100	5.519G



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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_22							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.388G	2	5.266G	3	5.451G	4	5.259G
5	5.444G	6	5.667G	7	5.529G	8	5.588G
9	5.396G	10	5.716G	11	5.562G	12	5.563G
13	5.327G	14	5.506G	15	5.581G	16	5.502G
17	5.369G	18	5.577G	19	5.605G	20	5.555G
21	5.400G	22	5.363G	23	5.514G	24	5.281G
25	5.257G	26	5.651G	27	5.636G	28	5.505G
29	5.430G	30	5.428G	31	5.523G	32	5.692G
33	5.427G	34	5.415G	35	5.272G	36	5.629G
37	5.352G	38	5.714G	39	5.664G	40	5.458G
41	5.297G	42	5.308G	43	5.584G	44	5.679G
45	5.404G	46	5.689G	47	5.666G	48	5.426G
49	5.425G	50	5.377G	51	5.638G	52	5.624G
53	5.690G	54	5.609G	55	5.518G	56	5.549G
57	5.386G	58	5.438G	59	5.668G	60	5.350G
61	5.698G	62	5.647G	63	5.356G	64	5.557G
65	5.271G	66	5.436G	67	5.312G	68	5.616G
69	5.357G	70	5.556G	71	5.364G	72	5.419G
73	5.542G	74	5.697G	75	5.528G	76	5.479G
77	5.565G	78	5.642G	79	5.455G	80	5.348G
81	5.545G	82	5.367G	83	5.682G	84	5.470G
85	5.589G	86	5.418G	87	5.620G	88	5.535G
89	5.533G	90	5.676G	91	5.486G	92	5.440G
93	5.715G	94	5.405G	95	5.301G	96	5.399G
97	5.402G	98	5.463G	99	5.334G	100	5.530G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_23							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.367G	2	5.544G	3	5.487G	4	5.325G
5	5.708G	6	5.442G	7	5.287G	8	5.521G
9	5.291G	10	5.340G	11	5.694G	12	5.532G
13	5.284G	14	5.508G	15	5.636G	16	5.433G
17	5.538G	18	5.306G	19	5.589G	20	5.605G
21	5.709G	22	5.609G	23	5.515G	24	5.445G
25	5.375G	26	5.422G	27	5.354G	28	5.615G
29	5.620G	30	5.313G	31	5.459G	32	5.691G
33	5.690G	34	5.307G	35	5.507G	36	5.357G
37	5.573G	38	5.579G	39	5.355G	40	5.588G
41	5.441G	42	5.434G	43	5.371G	44	5.511G
45	5.618G	46	5.293G	47	5.706G	48	5.721G



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49	5.407G	50	5.292G	51	5.323G	52	5.627G
53	5.644G	54	5.723G	55	5.362G	56	5.346G
57	5.499G	58	5.630G	59	5.315G	60	5.404G
61	5.411G	62	5.318G	63	5.707G	64	5.641G
65	5.539G	66	5.326G	67	5.722G	68	5.512G
69	5.601G	70	5.449G	71	5.436G	72	5.590G
73	5.662G	74	5.677G	75	5.257G	76	5.397G
77	5.460G	78	5.311G	79	5.327G	80	5.373G
81	5.321G	82	5.705G	83	5.563G	84	5.401G
85	5.592G	86	5.309G	87	5.700G	88	5.582G
89	5.490G	90	5.639G	91	5.565G	92	5.637G
93	5.485G	94	5.372G	95	5.663G	96	5.376G
97	5.669G	98	5.370G	99	5.364G	100	5.359G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_24							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.531G	2	5.292G	3	5.273G	4	5.511G
5	5.390G	6	5.579G	7	5.379G	8	5.560G
9	5.504G	10	5.554G	11	5.478G	12	5.385G
13	5.686G	14	5.269G	15	5.625G	16	5.418G
17	5.537G	18	5.391G	19	5.434G	20	5.307G
21	5.669G	22	5.613G	23	5.694G	24	5.400G
25	5.599G	26	5.661G	27	5.476G	28	5.392G
29	5.408G	30	5.409G	31	5.518G	32	5.298G
33	5.328G	34	5.306G	35	5.675G	36	5.316G
37	5.581G	38	5.263G	39	5.540G	40	5.709G
41	5.323G	42	5.563G	43	5.393G	44	5.655G
45	5.339G	46	5.321G	47	5.483G	48	5.309G
49	5.260G	50	5.278G	51	5.594G	52	5.673G
53	5.371G	54	5.430G	55	5.395G	56	5.638G
57	5.585G	58	5.618G	59	5.517G	60	5.641G
61	5.687G	62	5.707G	63	5.532G	64	5.290G
65	5.674G	66	5.485G	67	5.621G	68	5.561G
69	5.407G	70	5.474G	71	5.251G	72	5.377G
73	5.663G	74	5.623G	75	5.357G	76	5.281G
77	5.590G	78	5.410G	79	5.397G	80	5.549G
81	5.340G	82	5.680G	83	5.653G	84	5.626G
85	5.256G	86	5.515G	87	5.566G	88	5.344G
89	5.555G	90	5.459G	91	5.295G	92	5.302G
93	5.719G	94	5.429G	95	5.656G	96	5.413G
97	5.373G	98	5.698G	99	5.693G	100	5.711G



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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_25							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.471G	2	5.404G	3	5.459G	4	5.528G
5	5.723G	6	5.698G	7	5.611G	8	5.354G
9	5.329G	10	5.545G	11	5.589G	12	5.289G
13	5.663G	14	5.364G	15	5.430G	16	5.279G
17	5.600G	18	5.625G	19	5.399G	20	5.403G
21	5.258G	22	5.618G	23	5.321G	24	5.394G
25	5.562G	26	5.629G	27	5.626G	28	5.486G
29	5.580G	30	5.522G	31	5.293G	32	5.379G
33	5.525G	34	5.535G	35	5.638G	36	5.259G
37	5.477G	38	5.660G	39	5.286G	40	5.668G
41	5.595G	42	5.308G	43	5.396G	44	5.254G
45	5.330G	46	5.558G	47	5.718G	48	5.292G
49	5.669G	50	5.318G	51	5.333G	52	5.592G
53	5.291G	54	5.634G	55	5.385G	56	5.359G
57	5.488G	58	5.328G	59	5.678G	60	5.710G
61	5.386G	62	5.510G	63	5.252G	64	5.538G
65	5.342G	66	5.352G	67	5.280G	68	5.466G
69	5.365G	70	5.675G	71	5.502G	72	5.250G
73	5.691G	74	5.443G	75	5.497G	76	5.297G
77	5.709G	78	5.579G	79	5.648G	80	5.650G
81	5.654G	82	5.416G	83	5.557G	84	5.575G
85	5.646G	86	5.447G	87	5.458G	88	5.685G
89	5.398G	90	5.606G	91	5.651G	92	5.437G
93	5.350G	94	5.551G	95	5.479G	96	5.410G
97	5.480G	98	5.463G	99	5.464G	100	5.661G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_26							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.545G	2	5.379G	3	5.677G	4	5.337G
5	5.418G	6	5.335G	7	5.444G	8	5.714G
9	5.515G	10	5.289G	11	5.574G	12	5.645G
13	5.522G	14	5.555G	15	5.353G	16	5.295G
17	5.688G	18	5.532G	19	5.530G	20	5.344G
21	5.567G	22	5.331G	23	5.573G	24	5.356G
25	5.326G	26	5.657G	27	5.504G	28	5.679G
29	5.674G	30	5.358G	31	5.261G	32	5.445G
33	5.458G	34	5.400G	35	5.280G	36	5.551G
37	5.375G	38	5.359G	39	5.553G	40	5.668G
41	5.461G	42	5.267G	43	5.531G	44	5.665G
45	5.388G	46	5.275G	47	5.367G	48	5.715G



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49	5.272G	50	5.634G	51	5.499G	52	5.562G
53	5.369G	54	5.474G	55	5.660G	56	5.406G
57	5.644G	58	5.711G	59	5.270G	60	5.655G
61	5.277G	62	5.578G	63	5.590G	64	5.439G
65	5.678G	66	5.491G	67	5.539G	68	5.659G
69	5.485G	70	5.393G	71	5.613G	72	5.363G
73	5.370G	74	5.549G	75	5.580G	76	5.589G
77	5.421G	78	5.453G	79	5.650G	80	5.607G
81	5.282G	82	5.489G	83	5.265G	84	5.348G
85	5.338G	86	5.598G	87	5.694G	88	5.682G
89	5.507G	90	5.399G	91	5.662G	92	5.287G
93	5.352G	94	5.684G	95	5.389G	96	5.419G
97	5.642G	98	5.297G	99	5.269G	100	5.311G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_27							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.410G	2	5.514G	3	5.596G	4	5.695G
5	5.294G	6	5.676G	7	5.599G	8	5.631G
9	5.411G	10	5.320G	11	5.447G	12	5.314G
13	5.366G	14	5.450G	15	5.445G	16	5.333G
17	5.325G	18	5.434G	19	5.659G	20	5.281G
21	5.334G	22	5.420G	23	5.538G	24	5.598G
25	5.564G	26	5.533G	27	5.627G	28	5.622G
29	5.263G	30	5.390G	31	5.416G	32	5.724G
33	5.567G	34	5.317G	35	5.688G	36	5.269G
37	5.319G	38	5.472G	39	5.717G	40	5.376G
41	5.276G	42	5.457G	43	5.468G	44	5.714G
45	5.423G	46	5.702G	47	5.667G	48	5.600G
49	5.297G	50	5.535G	51	5.352G	52	5.428G
53	5.609G	54	5.295G	55	5.585G	56	5.524G
57	5.495G	58	5.453G	59	5.605G	60	5.639G
61	5.516G	62	5.404G	63	5.292G	64	5.405G
65	5.452G	66	5.409G	67	5.491G	68	5.270G
69	5.353G	70	5.358G	71	5.359G	72	5.671G
73	5.326G	74	5.429G	75	5.261G	76	5.481G
77	5.484G	78	5.477G	79	5.696G	80	5.343G
81	5.606G	82	5.672G	83	5.260G	84	5.625G
85	5.626G	86	5.288G	87	5.470G	88	5.435G
89	5.488G	90	5.507G	91	5.417G	92	5.678G
93	5.602G	94	5.268G	95	5.645G	96	5.265G
97	5.620G	98	5.572G	99	5.271G	100	5.362G



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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_28							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.306G	2	5.723G	3	5.546G	4	5.674G
5	5.274G	6	5.456G	7	5.384G	8	5.421G
9	5.718G	10	5.323G	11	5.677G	12	5.724G
13	5.476G	14	5.622G	15	5.394G	16	5.501G
17	5.602G	18	5.286G	19	5.262G	20	5.331G
21	5.712G	22	5.578G	23	5.651G	24	5.379G
25	5.547G	26	5.362G	27	5.639G	28	5.488G
29	5.287G	30	5.451G	31	5.531G	32	5.495G
33	5.669G	34	5.359G	35	5.514G	36	5.471G
37	5.673G	38	5.434G	39	5.663G	40	5.311G
41	5.430G	42	5.251G	43	5.408G	44	5.464G
45	5.324G	46	5.569G	47	5.640G	48	5.278G
49	5.272G	50	5.554G	51	5.491G	52	5.609G
53	5.355G	54	5.333G	55	5.650G	56	5.342G
57	5.619G	58	5.449G	59	5.722G	60	5.574G
61	5.411G	62	5.382G	63	5.662G	64	5.499G
65	5.686G	66	5.370G	67	5.572G	68	5.352G
69	5.681G	70	5.265G	71	5.655G	72	5.522G
73	5.346G	74	5.332G	75	5.614G	76	5.508G
77	5.432G	78	5.462G	79	5.533G	80	5.307G
81	5.575G	82	5.670G	83	5.385G	84	5.259G
85	5.356G	86	5.402G	87	5.699G	88	5.549G
89	5.422G	90	5.548G	91	5.373G	92	5.590G
93	5.429G	94	5.595G	95	5.393G	96	5.478G
97	5.693G	98	5.504G	99	5.520G	100	5.684G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_29							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.592G	2	5.290G	3	5.372G	4	5.669G
5	5.281G	6	5.410G	7	5.443G	8	5.385G
9	5.625G	10	5.672G	11	5.485G	12	5.495G
13	5.511G	14	5.671G	15	5.447G	16	5.390G
17	5.432G	18	5.675G	19	5.276G	20	5.409G
21	5.414G	22	5.702G	23	5.412G	24	5.300G
25	5.596G	26	5.610G	27	5.469G	28	5.642G
29	5.656G	30	5.532G	31	5.428G	32	5.314G
33	5.285G	34	5.402G	35	5.302G	36	5.353G
37	5.695G	38	5.424G	39	5.581G	40	5.324G
41	5.449G	42	5.561G	43	5.407G	44	5.471G
45	5.383G	46	5.359G	47	5.427G	48	5.433G



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49	5.294G	50	5.544G	51	5.370G	52	5.703G
53	5.655G	54	5.503G	55	5.477G	56	5.466G
57	5.670G	58	5.456G	59	5.652G	60	5.395G
61	5.507G	62	5.354G	63	5.366G	64	5.690G
65	5.339G	66	5.329G	67	5.641G	68	5.334G
69	5.492G	70	5.539G	71	5.577G	72	5.621G
73	5.540G	74	5.280G	75	5.328G	76	5.647G
77	5.541G	78	5.660G	79	5.588G	80	5.404G
81	5.554G	82	5.313G	83	5.623G	84	5.639G
85	5.570G	86	5.607G	87	5.378G	88	5.700G
89	5.275G	90	5.717G	91	5.445G	92	5.264G
93	5.558G	94	5.425G	95	5.463G	96	5.333G
97	5.371G	98	5.374G	99	5.633G	100	5.460G

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_HT40_30							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.303G	2	5.587G	3	5.468G	4	5.593G
5	5.640G	6	5.289G	7	5.291G	8	5.618G
9	5.448G	10	5.579G	11	5.563G	12	5.434G
13	5.525G	14	5.464G	15	5.573G	16	5.709G
17	5.326G	18	5.625G	19	5.506G	20	5.609G
21	5.577G	22	5.671G	23	5.281G	24	5.388G
25	5.433G	26	5.320G	27	5.477G	28	5.670G
29	5.605G	30	5.601G	31	5.665G	32	5.674G
33	5.358G	34	5.423G	35	5.443G	36	5.345G
37	5.379G	38	5.712G	39	5.646G	40	5.381G
41	5.498G	42	5.535G	43	5.495G	44	5.718G
45	5.676G	46	5.707G	47	5.287G	48	5.620G
49	5.344G	50	5.404G	51	5.286G	52	5.329G
53	5.504G	54	5.428G	55	5.391G	56	5.392G
57	5.378G	58	5.365G	59	5.426G	60	5.624G
61	5.418G	62	5.580G	63	5.560G	64	5.669G
65	5.411G	66	5.440G	67	5.538G	68	5.582G
69	5.447G	70	5.626G	71	5.576G	72	5.331G
73	5.592G	74	5.354G	75	5.431G	76	5.666G
77	5.657G	78	5.724G	79	5.571G	80	5.360G
81	5.688G	82	5.277G	83	5.570G	84	5.436G
85	5.562G	86	5.638G	87	5.446G	88	5.283G
89	5.386G	90	5.480G	91	5.489G	92	5.612G
93	5.616G	94	5.496G	95	5.502G	96	5.255G
97	5.294G	98	5.686G	99	5.259G	100	5.465G

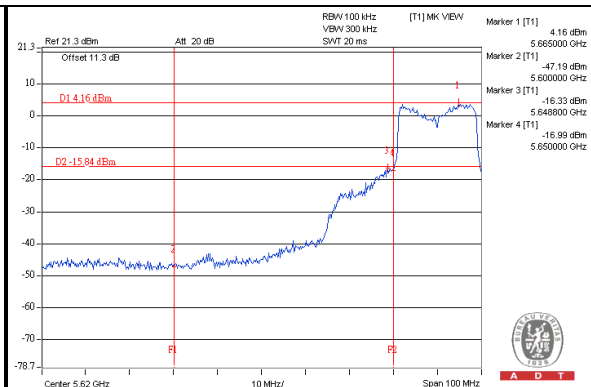
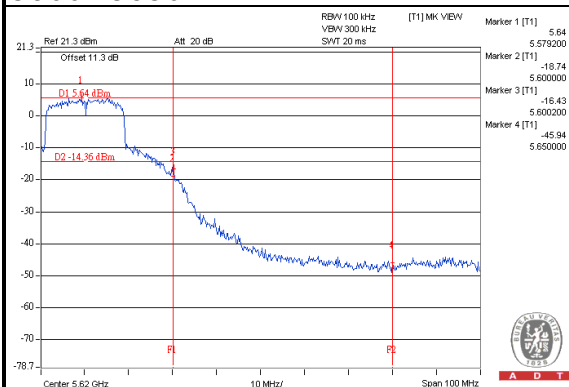
10. APPENDIX-C

MASTER MODE

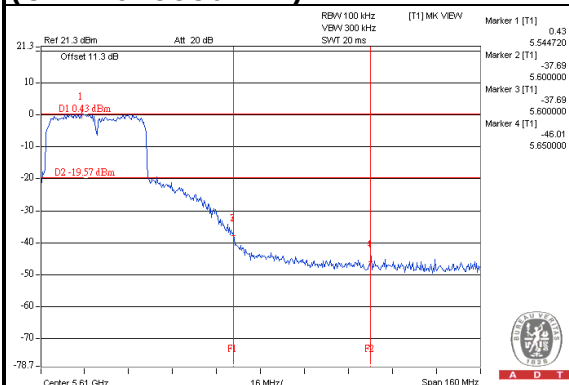
NOTCH BAND IN 5600-5650MHZ

Verify that the 5600 – 5650 MHz band is notched.

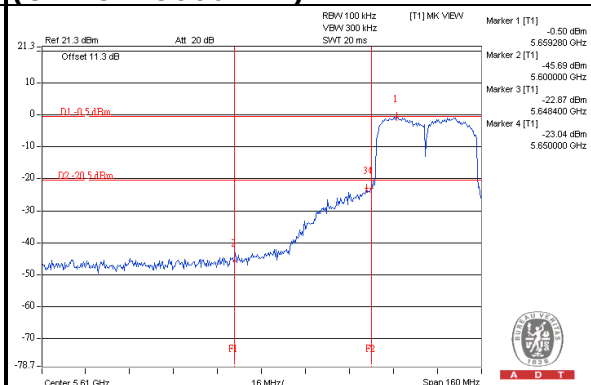
Test results demonstrating last channel shall not exceed the band edge on 5600~5650MHz.



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



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



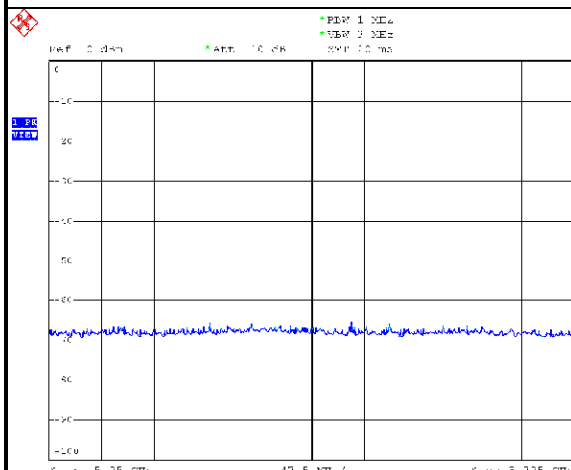
802.11n (40MHz) OFDM MODULATION (CH 110: 5550MHz)

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

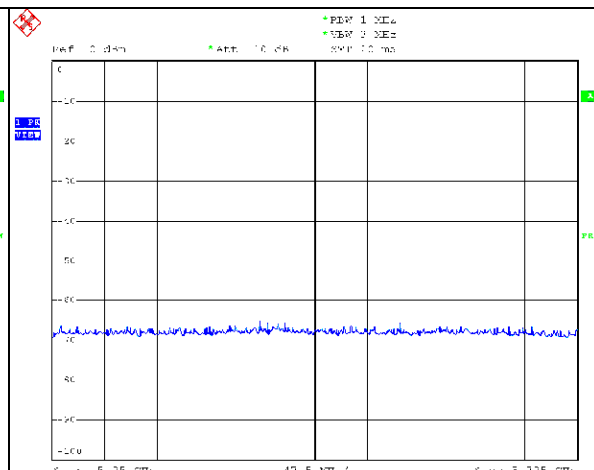
CLIENT MODE

NON BEACON ON DFS BAND

- 1) Test results demonstrating no any beacon on DFS band after power up.
- 2) Observation time is 10min after power up.



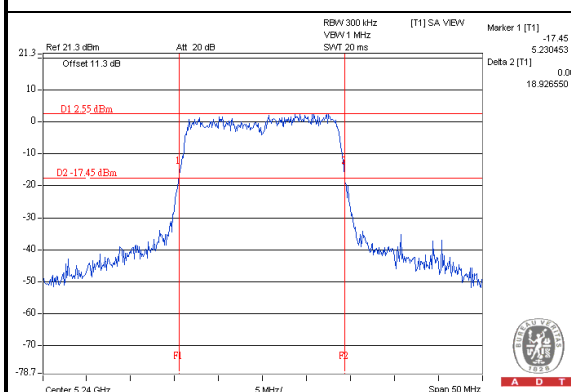
EUT (Client) links with master on 11n HT20 mode



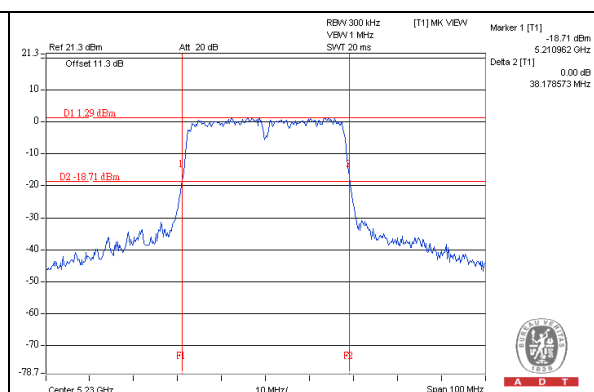
EUT (Client) links with master on 11n HT40 mode

BAND EDGE AT NEARBY DFS BAND

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



EUT (Client) links with master on 11n HT20 mode



EUT (Client) links with master on 11n HT40 mode



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11. APPENDIX D - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

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

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