

DFS TEST REPORT

REPORT NO.: RF980320L04-2

MODEL NO.: AT-TQ2403

RECEIVED: Mar. 19, 2009

TESTED: Apr. 27, 2009

ISSUED: May 18, 2009

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1. LAB DECLARATION

PRODUCT: Enterprise Wlan AP
BRAND: AT-TQ2403
MODEL: ATI
APPLICANT: Delta Networks, Inc.
TESTED: Apr. 27, 2009
TEST SAMPLE: ENGINEERING SAMPLE
STANDARDS: FCC Part 15, Subpart E (Section 15.407)
FCC 06-96

The above equipment (Model: AT-TQ2403) 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 : Polly Chien , **DATE** : May 18, 2009
Polly Chien / Specialist

TECHNICAL ACCEPTANCE : Dylan Chiou , **DATE** : May 18, 2009
Responsible for RF Dylan Chiou / Senior Engineer

APPROVED BY : Gary Chang , **DATE** : May 18, 2009
Gary Chang / Assistant 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	✓	✓

2.2 EUT SOFTWARE AND FIRMWARE VERSION

Table 2: The EUT software/firmware version.

No.	Product	Model No.	Software/Firmware Version
1	Enterprise Wlan AP	AT-TQ2403	Firmware Version :2.1.5 Build Number : 08

2.3 DESCRIPTION OF AVAILABLE ANTENNAS TO THE EUT

Table 3: Antenna list.

Antenna	Type	Operation Frequency Range	Max. Gain(dBi)
External Dipole	Dipole	5.25 – 5.35 GHz	2.26
External Dipole	Dipole	5.47 – 5.725 GHz	2.26

2.4 EUT MAXIMUM AND MINIMUM CONDUCTED POWER

Table 4: The measured conducted output power.

Frequency Band(MHz)	MAX. Power		MIN. Power	
	Output Power(dBm)	Output Power(mW)	Output Power(dBm)	Output Power(mW)
5250~5350MHz	16.530	44.978	-0.170	0.962
5470~5725MHz	16.060	40.365	-2.400	0.575

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

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

Frequency Band(MHz)	MAX. Power		MIN. Power	
	Output Power(dBm)	Output Power(mW)	Output Power(dBm)	Output Power(mW)
5250~5350MHz	18.79	75.683	2.09	1.618
5470~5725MHz	18.32	67.920	-0.14	0.968

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 76.683mW 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.

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

Table 7: Applicability of DFS requirements during normal operation.

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

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.

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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
R&S Spectrum analyzer	FSP40	R&S	Jul. 03, 2009
Signal generator	8645A	Agilent	Jun. 09, 2009
Oscilloscope	TDS 5104	Tektronix	Aug. 31. 2009

4.2 DESCRIPTION OF SUPPORT UNITS

Table 2: Support Unit information.

No.	Product	Brand	Model No.	ID	Spec.
1	Wireless-N USB Adapter	NETGEAR	WNDA3100	PY307300073	NA

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

Table 3: Software/Firmware information.

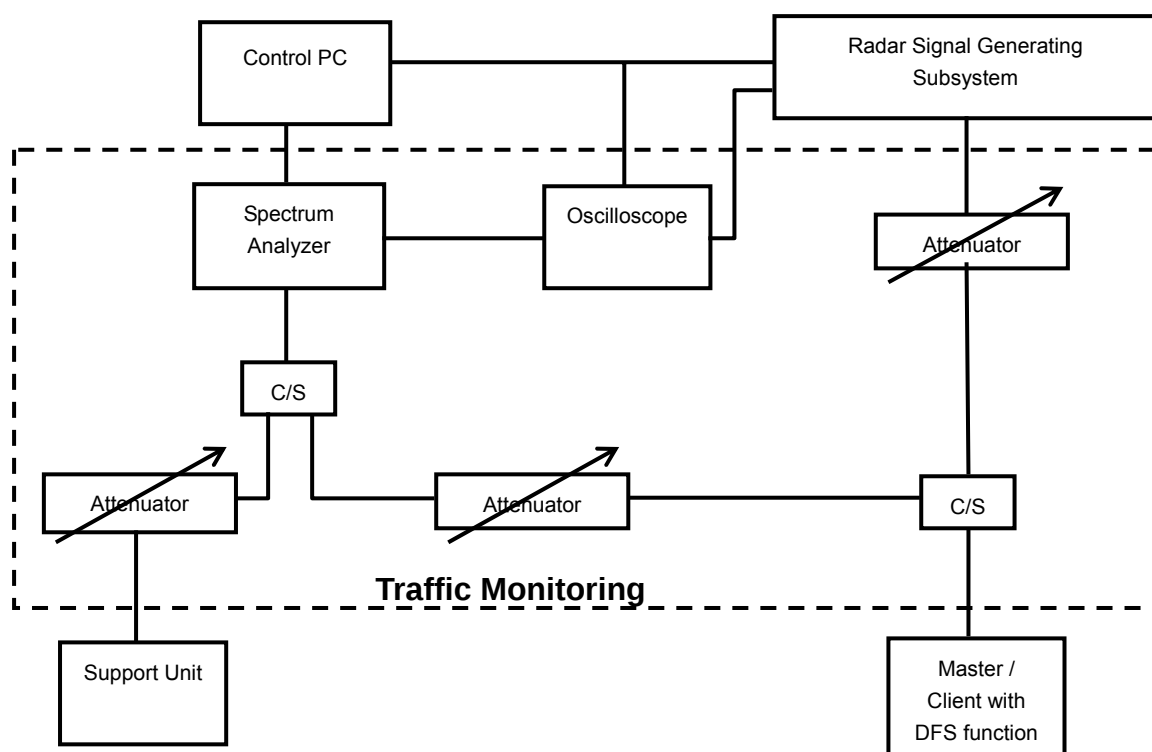
No.	Product	Model No.	Software/Firmware Version
1	Wireless-N USB Adapter	WNDA3100	Driver Version: 3.0.0.131

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 $\frac{1}{2}$ Magic Hours) from Master device, the designated MPEG test file and instructions are located at:

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

The measured channel is 5500MHz. The radar signal was the same as transmitted channels, and injected into the antenna port of AP (master) or Client Device with Radar Detection, measured the channel closing transmission time and channel move time. The Master antenna gain is 2.26dBi and required detection threshold is -58.74dBm (= -62 +1+2.26)dBm.

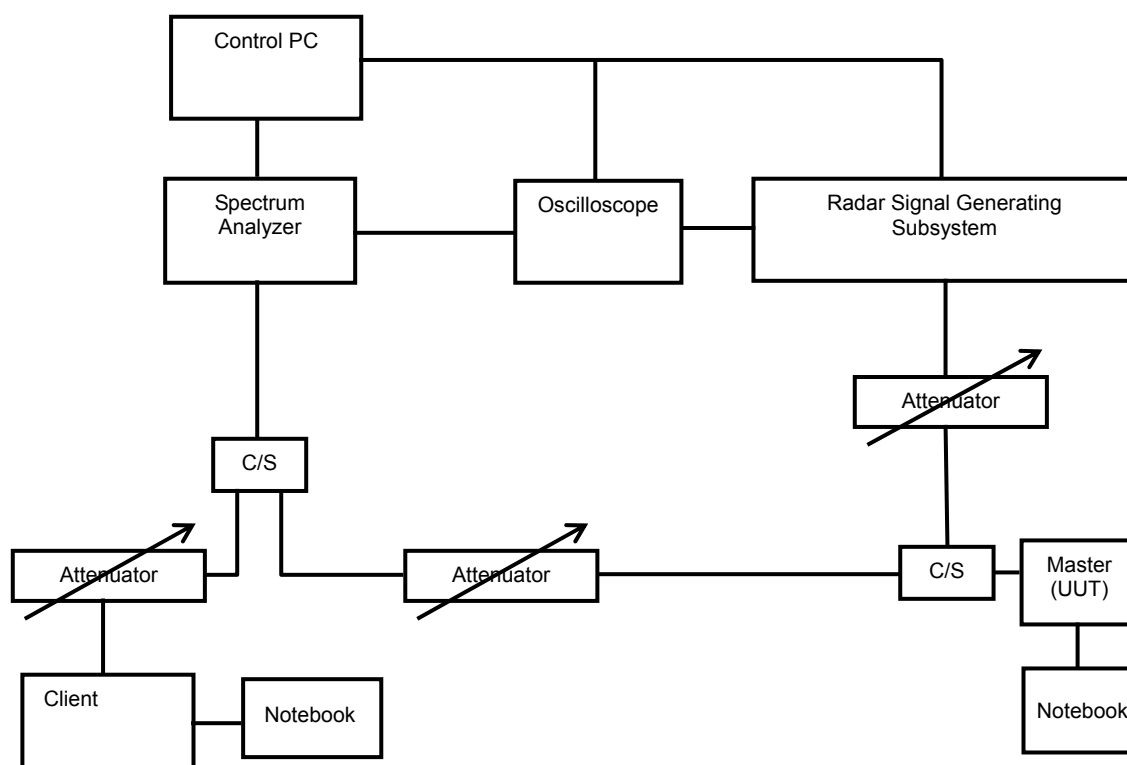
The diagram illustrates the test setup for the radar system. A Control PC is connected to three main components: a Spectrum Analyzer, an Oscilloscope, and a Radar Signal Generating Subsystem. The Spectrum Analyzer is connected to the Oscilloscope, which is in turn connected to the Radar Signal Generating Subsystem. The Radar Signal Generating Subsystem is connected to an Attenuator, which is then connected to a C/S (Control/Signal) block. The C/S block is connected to another Attenuator, which is connected to a 50Ω Load (Terminator). The 50Ω Load (Terminator) is connected to a C/S block, which is connected to another Attenuator, which is connected to a 50Ω Load (Terminator). The 50Ω Load (Terminator) is connected to a C/S block, which is connected to another Attenuator, which is connected to a 50Ω Load (Terminator).

5.3 DEVIATION FROM TEST STANDARD

No deviation.

5.4 CONDUCTED TEST SETUP CONFIGURATION

5.4.1 MASTER MODE



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

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6. TEST RESULTS

6.1 SUMMARY OF TEST RESULT

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

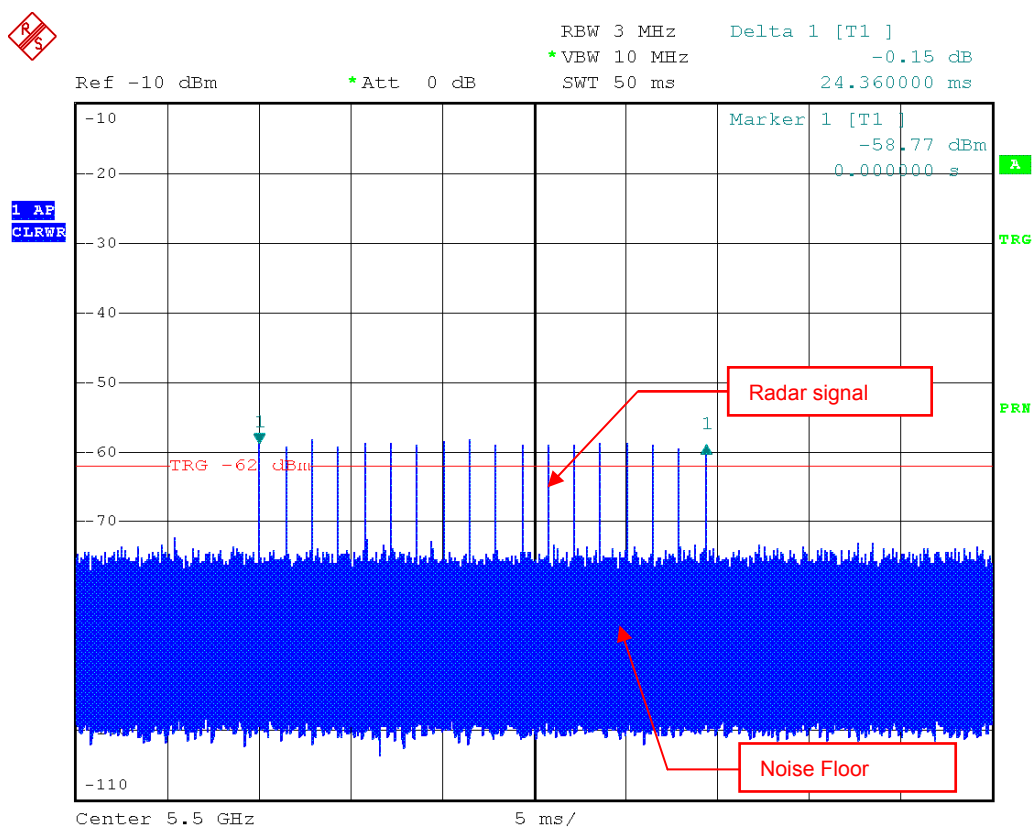
6.2 DETAIL TEST RESULTS

6.2.1 TEST MODE: DEVICE OPERATING IN MASTER MODE.

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

6.2.1.1 DFS DETECTION THRESHOLD

For a detection threshold level of -62dBm and the Master antenna gain is 2.26dBi . The Required detection threshold is -58.74dBm ($= -62 + 1 + 2.26$) dBm . The conducted radar burst level is set to -58.74dBm .



Date: 23.APR.2009 09:30:24

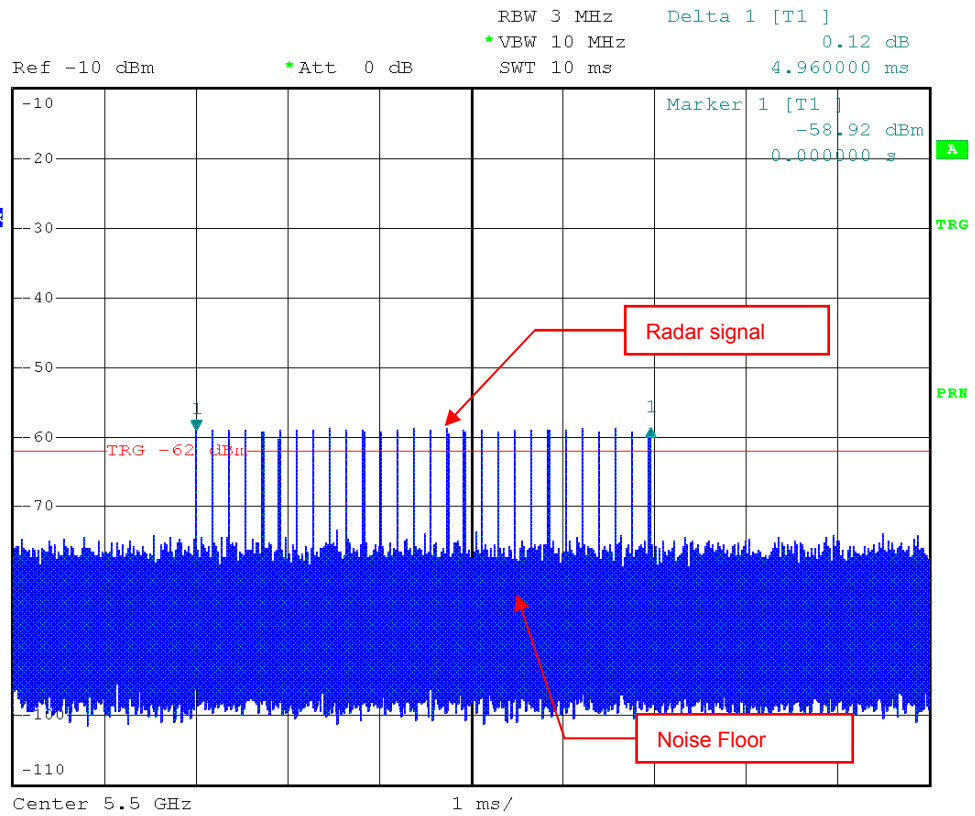
Radar Signal 1



A D T



1 AP
CLRWR



Date: 23.APR.2009 09:31:37

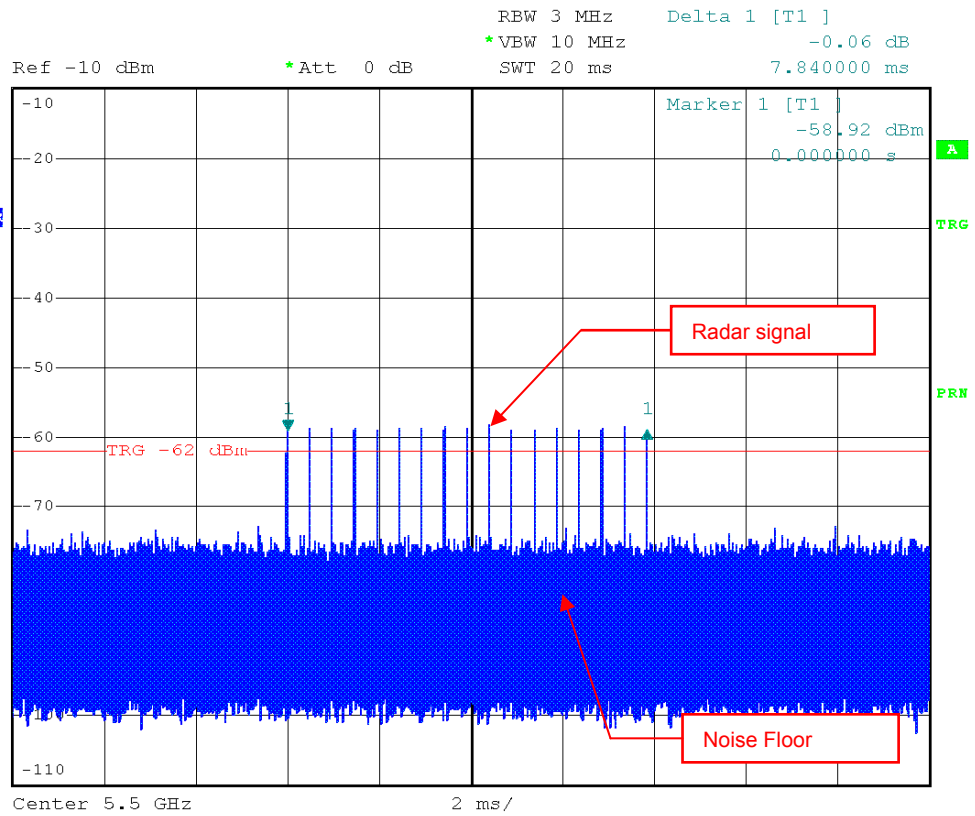
Radar Signal 2



A D T



1 AP
CLRWR

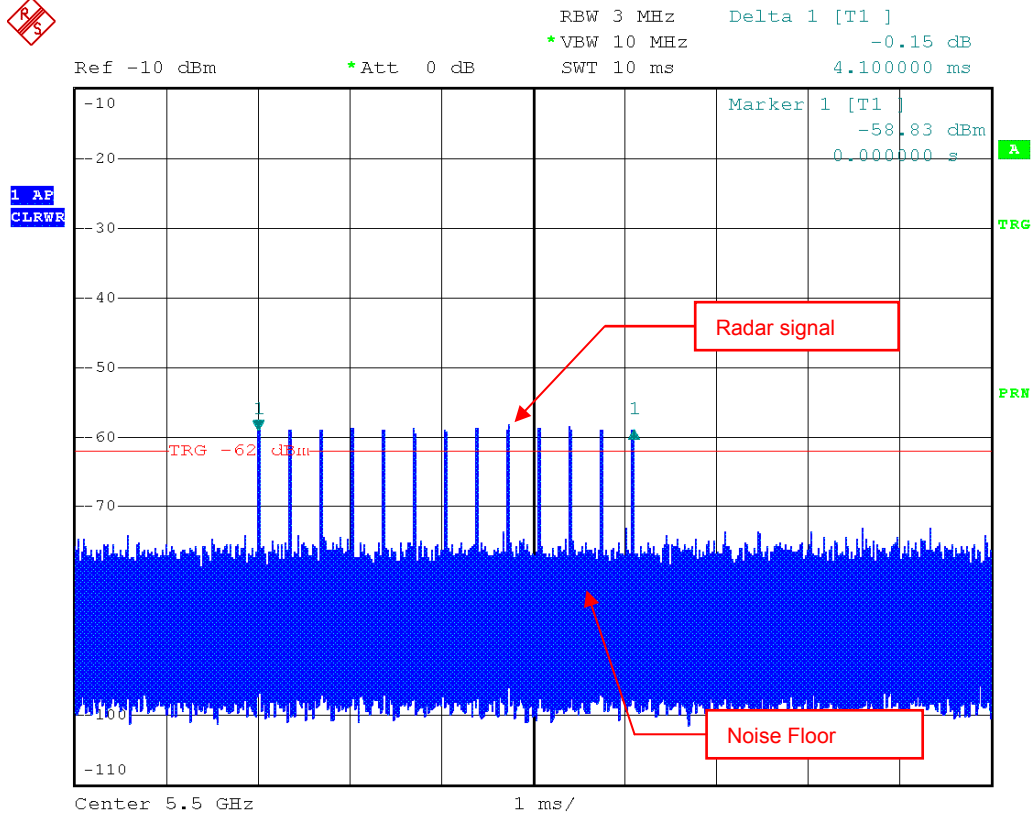


Date: 23.APR.2009 09:33:48

Radar Signal 3



A D T



Date: 23.APR.2009 09:34:39

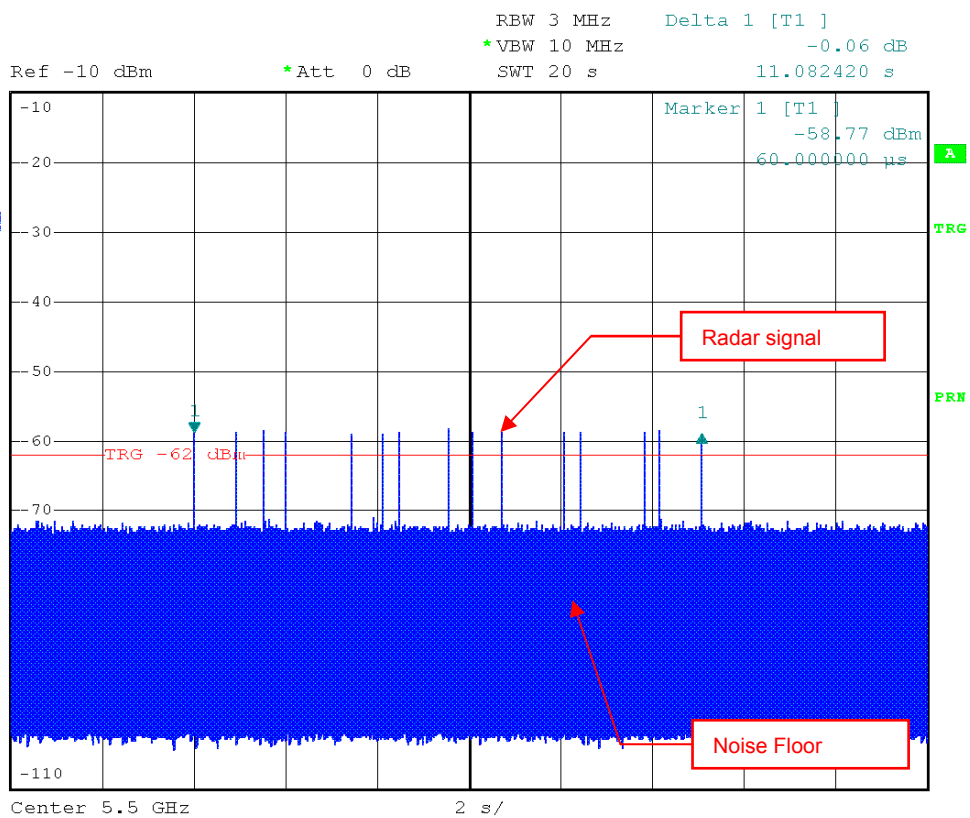
Radar Signal 4



A D T



1 AP
CLRWR



Date: 23.APR.2009 09:43:54

Radar Signal 5



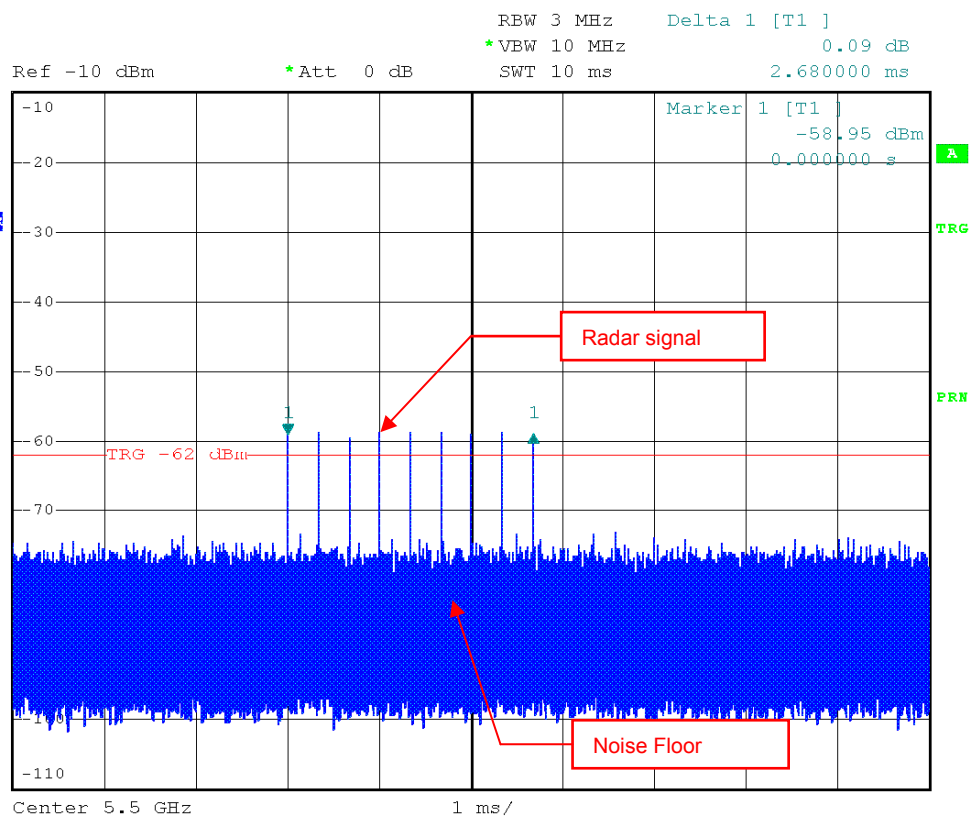
Report No.: RF980320L04-2



A D T



1 AP
CLRWR



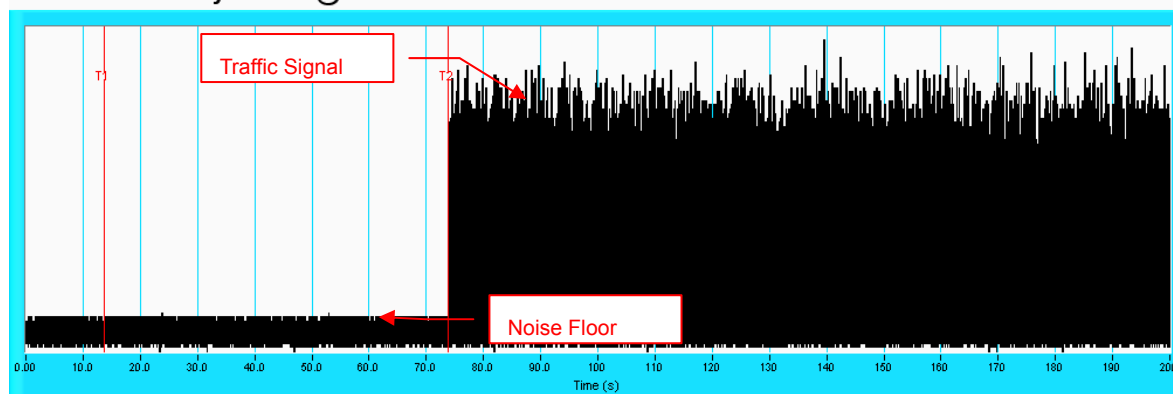
Date: 23.APR.2009 09:47:21

Radar Signal 6

6.2.1.2 CHANNEL AVAILABILITY CHECK TIME

Initial Channel Availability Check Time

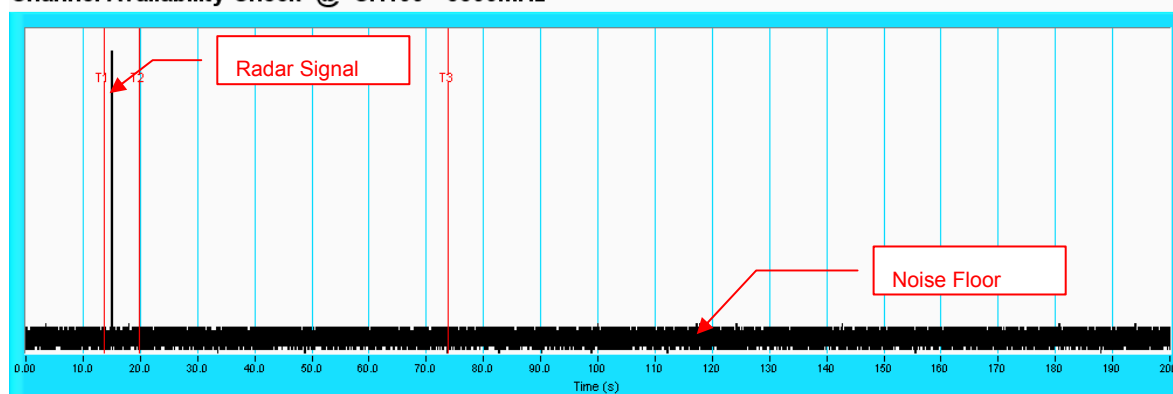
Channel Availability Check @ CH100 - 5500MHz



NOTE: T1 denotes the end of power-up time period is 13.8th second. T2 denotes the end of Channel Availability Check time is 73.8th second. Channel Availability Check time is equal to (T2 – T1) 60 seconds.

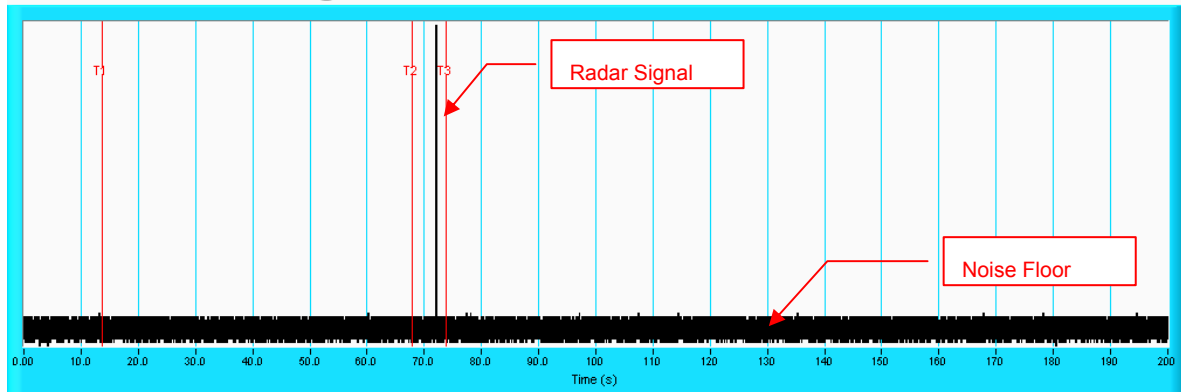
Radar Burst at the Beginning of the Channel Availability Check Time

Channel Availability Check @ CH100 - 5500MHz



NOTE: T1 denotes the end of power up time period is 13.8th second. T2 denotes the radar burst was commenced within a 6 second window starting from the end of power-up sequence. T3 denotes the 73.8th 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 13.8th second. T2 denotes 67.8th second and T3 denotes the 73.8th 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

Table 1: Short Pulse Radar Test Waveforms.

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Number of Trials(Times)	Percentage of Successful Detection (%)
1	1	1428	18	30	100.0
2	1-5	150-230	23-29	30	96.7
3	6-10	200-500	16-18	30	93.3
4	11-20	200-500	12-16	30	96.7
Aggregate (Radar Types 1-4)				120	96.7

Table 2: Long Pulse Radar Test Waveform

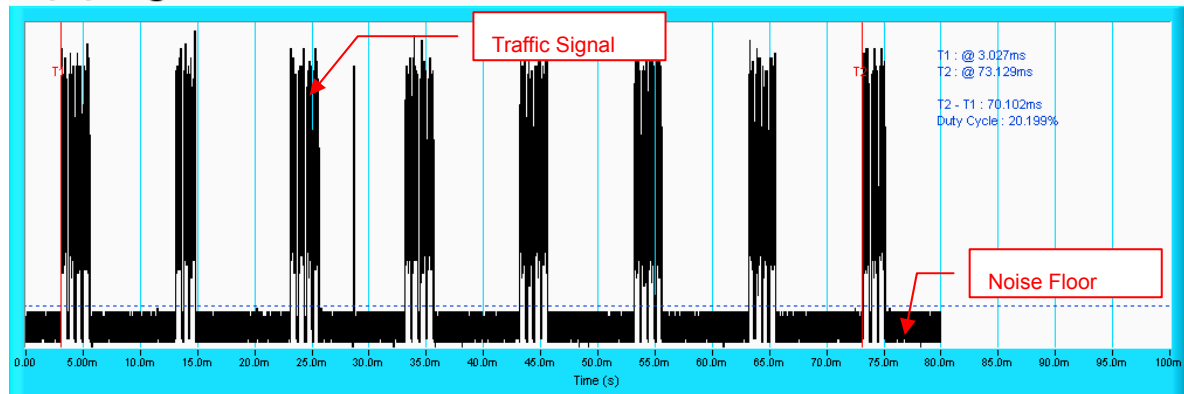
Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses per Burst	Number of Bursts	Number of Trials(Times)	Percentage of Successful Detection (%)
5	50-100	5-20	1000-2000	1-3	8-20	30	83.3

Table 3: Frequency Hopping Radar Test Waveform

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Number of Trials(Times)	Percentage of Successful Detection (%)
6	1	333	9	0.333	300	30	100.0

WLAN TRAFFIC

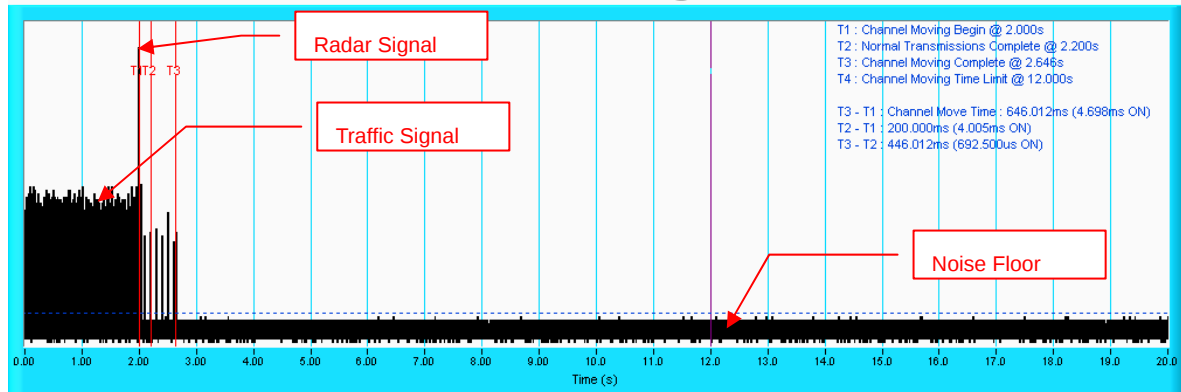
Duty Cycle @ CH100 - 5500MHz



NOTE: T1 denotes the start of duty cycle period is 0.003027th second. T2 denotes the end of duty cycle period is 0.073129th second. T2 – T1= 0.070102 seconds.
Duty Cycle = 20.199%

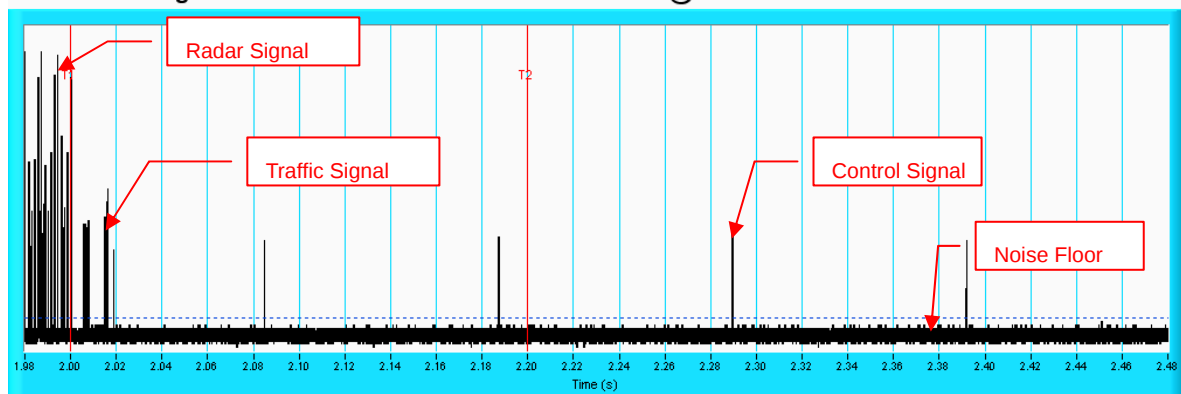
Radar signal 1

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.

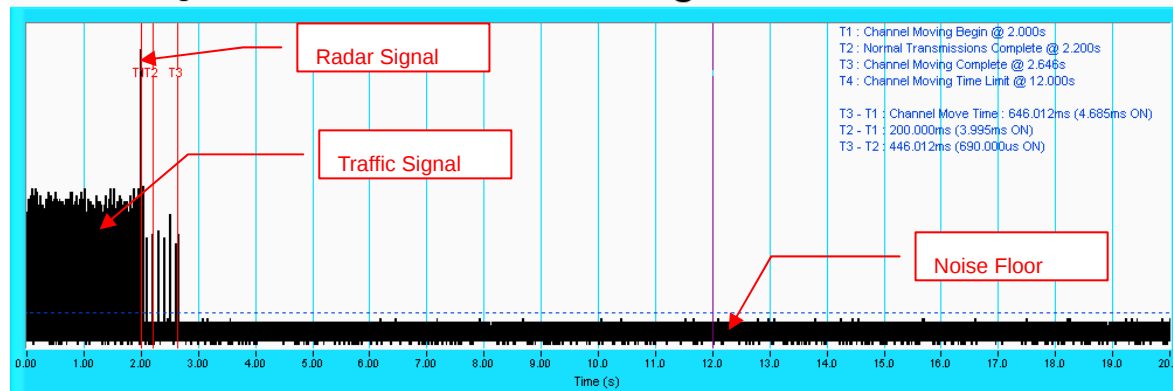
Channel Closing Transmission Time & Channel Move Time @ CH100 - 5500MHz



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

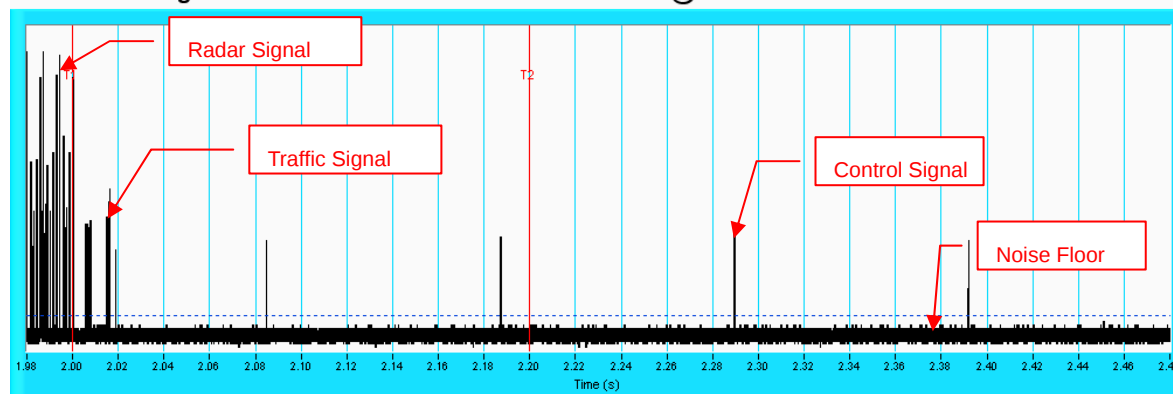
Radar signal 2

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.

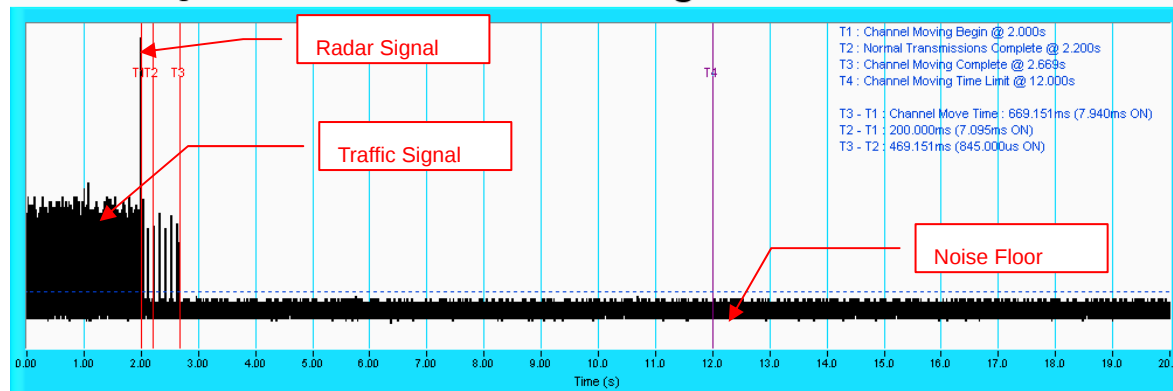
Channel Closing Transmission Time & Channel Move Time @ CH100 - 5500MHz



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

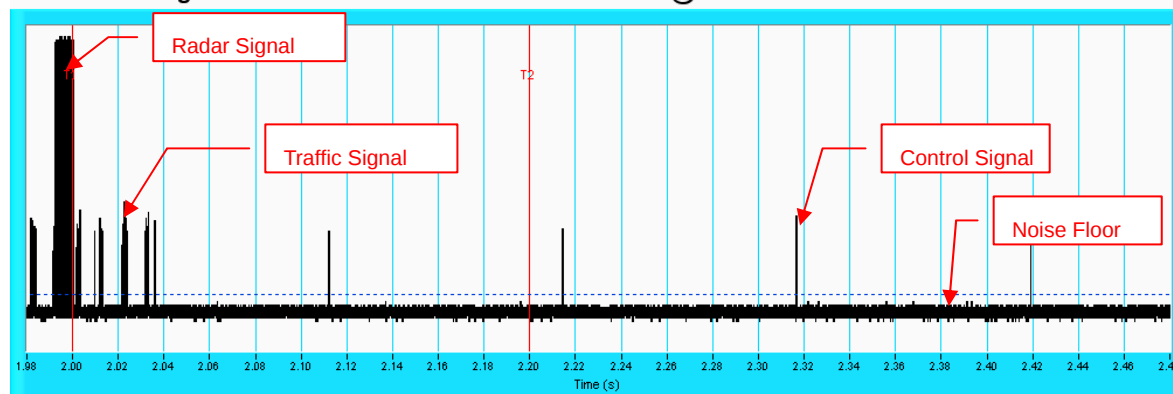
Radar signal 3

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.

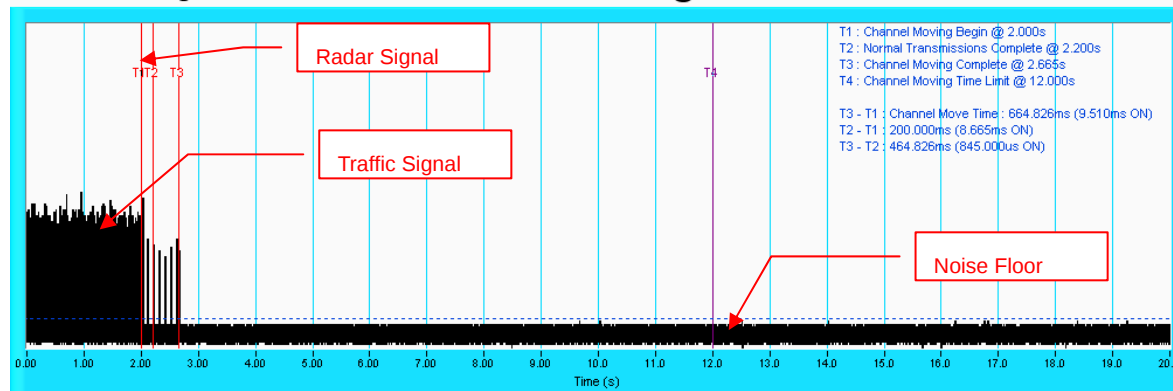
Channel Closing Transmission Time & Channel Move Time @ CH100 - 5500MHz



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

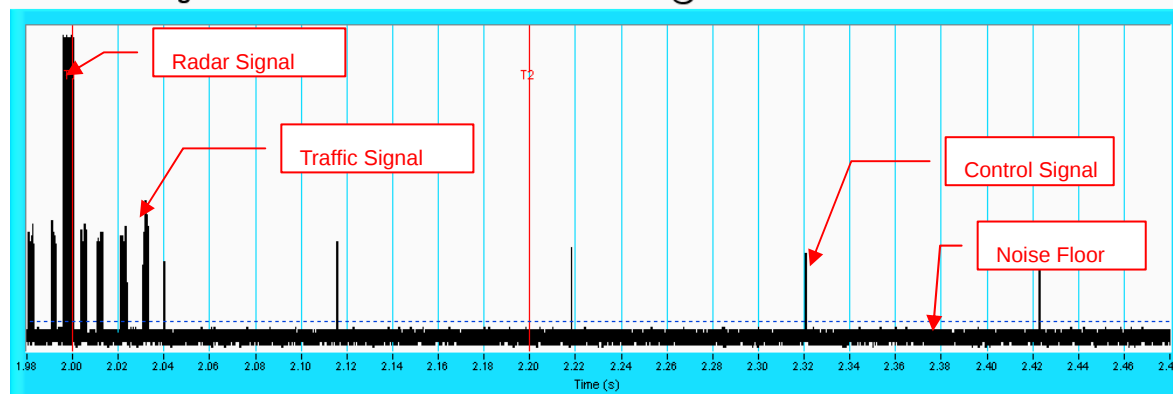
Radar signal 4

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.

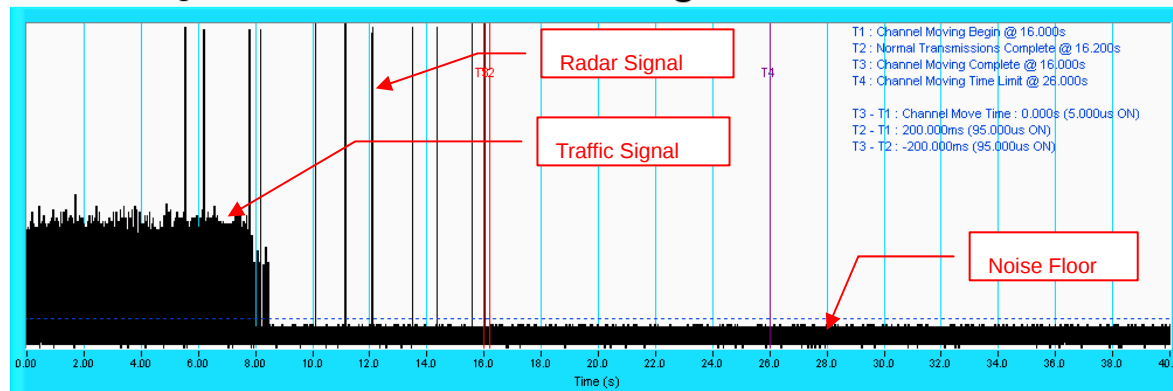
Channel Closing Transmission Time & Channel Move Time @ CH100 - 5500MHz



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

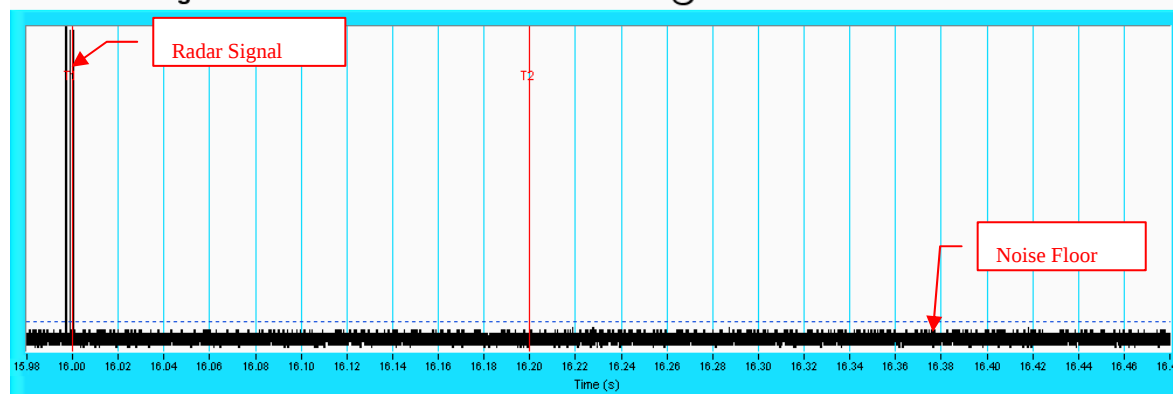
Radar signal 5

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.

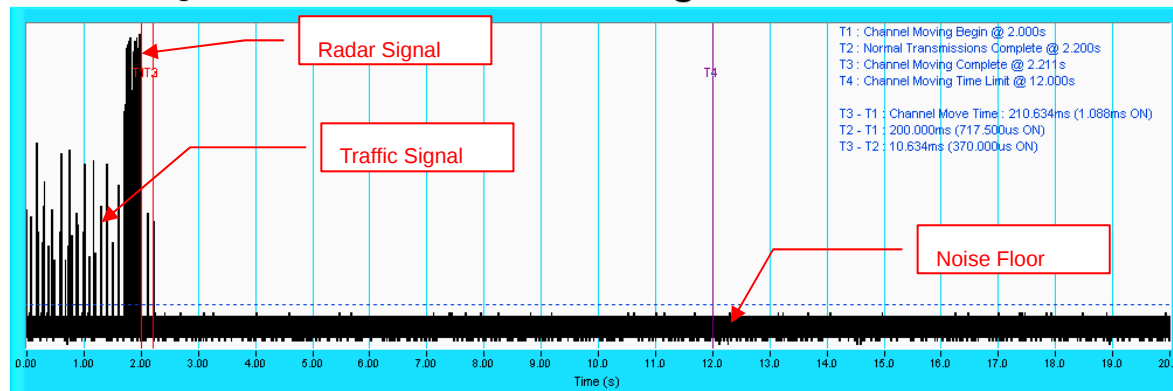
Channel Closing Transmission Time & Channel Move Time @ CH100 - 5500MHz



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

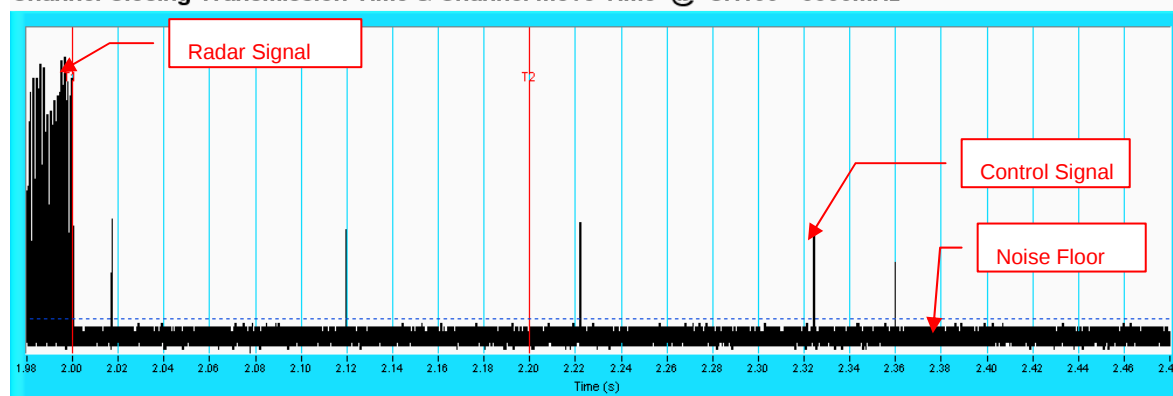
Radar signal 6

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



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

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



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

**A D T****Type 1 Radar Statistical Performances**

Trial #	Pulses per Burst	Pulse Width (s)	PRI (s)	Detection
1	18	1.0u	1.428m	Yes
2	18	1.0u	1.428m	Yes
3	18	1.0u	1.428m	Yes
4	18	1.0u	1.428m	Yes
5	18	1.0u	1.428m	Yes
6	18	1.0u	1.428m	Yes
7	18	1.0u	1.428m	Yes
8	18	1.0u	1.428m	Yes
9	18	1.0u	1.428m	Yes
10	18	1.0u	1.428m	Yes
11	18	1.0u	1.428m	Yes
12	18	1.0u	1.428m	Yes
13	18	1.0u	1.428m	Yes
14	18	1.0u	1.428m	Yes
15	18	1.0u	1.428m	Yes
16	18	1.0u	1.428m	Yes
17	18	1.0u	1.428m	Yes
18	18	1.0u	1.428m	Yes
19	18	1.0u	1.428m	Yes
20	18	1.0u	1.428m	Yes
21	18	1.0u	1.428m	Yes
22	18	1.0u	1.428m	Yes
23	18	1.0u	1.428m	Yes
24	18	1.0u	1.428m	Yes
25	18	1.0u	1.428m	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: 100.0 %

**A D T****Type 2 Radar Statistical Performances**

Trial #	Pulses per Burst	Pulse Width (s)	PRI (s)	Detection
1	24	3.6u	198.0u	Yes
2	28	3.8u	171.0u	Yes
3	27	2.3u	213.0u	Yes
4	29	1.5u	152.0u	Yes
5	24	4.6u	169.0u	Yes
6	26	2.4u	217.0u	Yes
7	27	4.1u	168.0u	Yes
8	27	2.2u	188.0u	Yes
9	25	2.9u	215.0u	No
10	26	1.2u	207.0u	Yes
11	24	4.6u	212.0u	Yes
12	26	2.3u	162.0u	Yes
13	26	2.9u	156.0u	Yes
14	28	2.6u	214.0u	Yes
15	26	2.7u	159.0u	Yes
16	26	1.1u	212.0u	Yes
17	28	4.2u	158.0u	Yes
18	29	1.7u	166.0u	Yes
19	26	3.0u	159.0u	Yes
20	29	4.6u	183.0u	Yes
21	28	1.1u	176.0u	Yes
22	28	4.5u	161.0u	Yes
23	28	3.3u	179.0u	Yes
24	28	2.9u	206.0u	Yes
25	26	2.4u	222.0u	Yes
26	23	2.2u	221.0u	Yes
27	28	2.1u	154.0u	Yes
28	26	4.4u	163.0u	Yes
29	27	2.2u	157.0u	Yes
30	27	3.4u	212.0u	Yes

Detection Rate: 96.7 %

**A D T****Type 3 Radar Statistical Performances**

Trial #	Pulses per Burst	Pulse Width (s)	PRI (s)	Detection
1	17	9.8u	453.0u	Yes
2	18	9.0u	361.0u	Yes
3	17	9.8u	480.0u	Yes
4	16	7.1u	224.0u	Yes
5	17	7.3u	255.0u	No
6	18	8.0u	441.0u	Yes
7	17	7.9u	465.0u	Yes
8	16	7.6u	478.0u	Yes
9	16	9.5u	410.0u	Yes
10	17	7.5u	204.0u	Yes
11	16	9.6u	425.0u	Yes
12	17	8.0u	482.0u	Yes
13	17	7.9u	393.0u	Yes
14	17	7.6u	472.0u	Yes
15	16	9.7u	295.0u	Yes
16	17	9.2u	364.0u	No
17	17	8.7u	459.0u	Yes
18	18	7.6u	451.0u	Yes
19	17	9.4u	405.0u	Yes
20	18	6.9u	299.0u	Yes
21	17	9.7u	207.0u	Yes
22	16	6.3u	466.0u	Yes
23	18	6.6u	269.0u	Yes
24	16	7.2u	462.0u	Yes
25	17	9.7u	234.0u	Yes
26	17	6.1u	306.0u	Yes
27	16	6.1u	419.0u	Yes
28	17	7.1u	220.0u	Yes
29	16	9.6u	429.0u	Yes
30	18	7.9u	287.0u	Yes

Detection Rate: 93.3 %

**A D T****Type 4 Radar Statistical Performances**

Trial #	Pulses per Burst	Pulse Width (s)	PRI (s)	Detection
1	15	15.5u	372.0u	Yes
2	14	17.0u	258.0u	Yes
3	16	12.7u	389.0u	Yes
4	13	13.3u	417.0u	Yes
5	14	14.3u	382.0u	Yes
6	12	16.8u	380.0u	Yes
7	15	19.8u	206.0u	Yes
8	14	17.5u	336.0u	Yes
9	13	13.6u	389.0u	Yes
10	13	13.3u	399.0u	Yes
11	15	14.5u	214.0u	Yes
12	15	12.5u	434.0u	Yes
13	12	12.0u	459.0u	Yes
14	13	14.0u	222.0u	Yes
15	14	19.4u	232.0u	Yes
16	13	18.9u	265.0u	Yes
17	15	11.4u	300.0u	Yes
18	15	11.5u	256.0u	Yes
19	15	16.8u	401.0u	Yes
20	12	19.1u	271.0u	Yes
21	15	16.9u	397.0u	Yes
22	12	19.2u	393.0u	Yes
23	13	15.2u	215.0u	Yes
24	14	13.3u	265.0u	No
25	13	11.2u	246.0u	Yes
26	16	11.5u	282.0u	Yes
27	12	13.7u	263.0u	Yes
28	13	19.7u	208.0u	Yes
29	16	15.2u	438.0u	Yes
30	16	18.8u	279.0u	Yes

Detection Rate: 96.7 %

**A D T****Type 5 Radar Statistical Performances**

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

Detection Rate: 83.3 %

The Long Pulse Radar pattern shown in Annex B.1



A D T

Type 6 Radar Statistical Performances

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

Detection Rate: 100.0 %

**A D T****Type 6 Radar Statistical Performances**

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

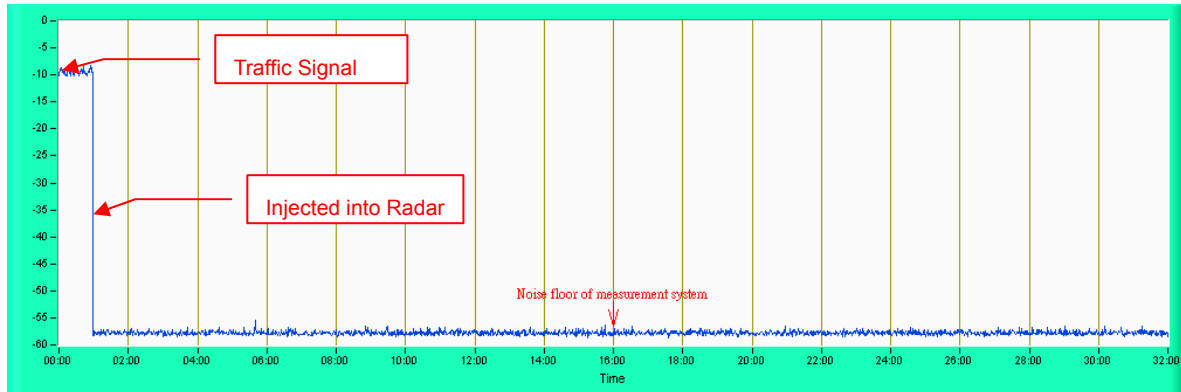
Detection Rate: 100.0 %

The Frequency Hopping Radar pattern shown in Annex B.2

6.2.1.4 NON- OCCUPANCY PERIOD

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

Non - Occupancy Period @ CH100 - 5500MHz



6.2.1.5 UNIFORM SPREADING

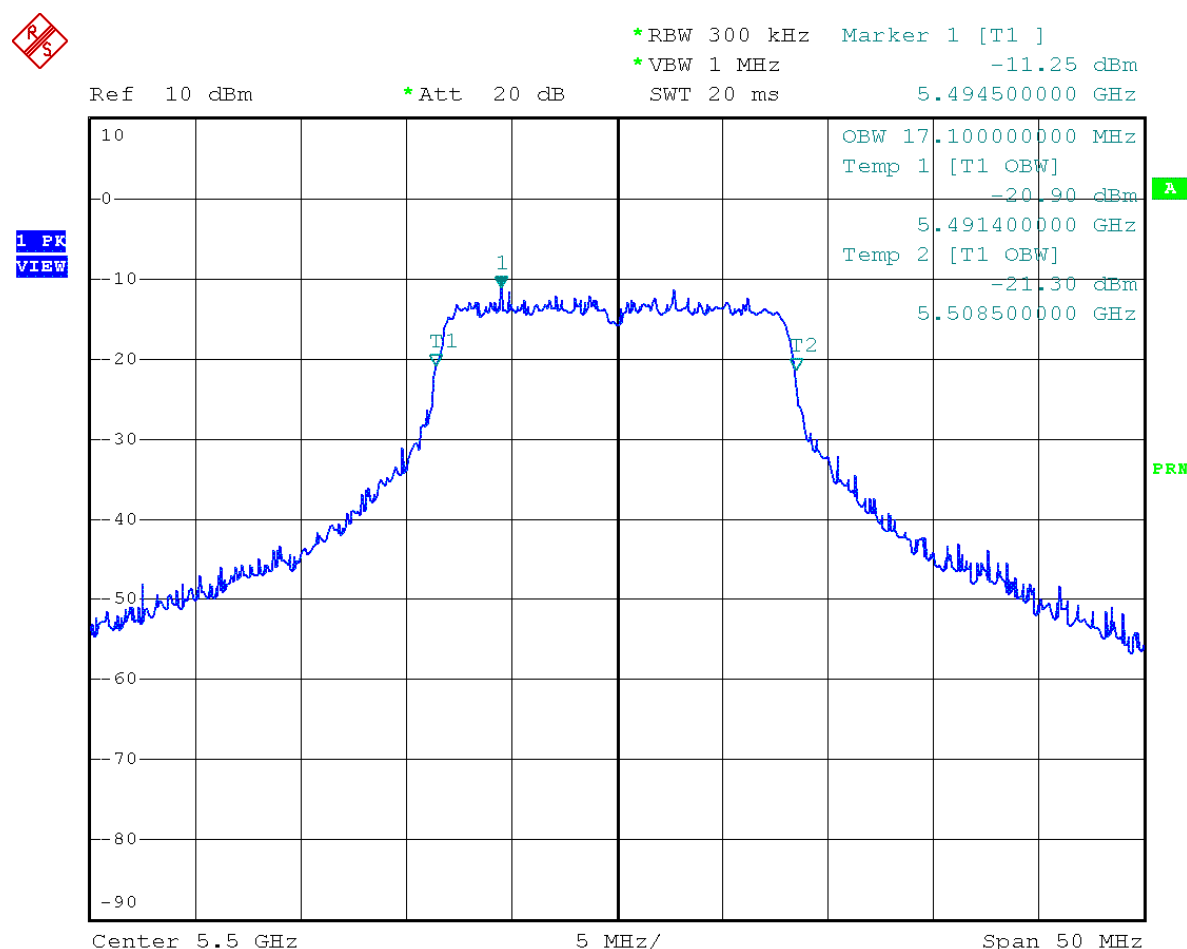
The policy to configure UUT channel can be random selected (auto mode) or static assigned.

In case of random selected, the UUT uses the bands 5150 to 5350 MHz or 5470 to 5850 MHz shall select an operating channel randomly, so that the probability of selecting a given channel shall be the same for all channels.

In case of static assigned, if the assigned channel is in range of 5150 to 5250 MHz, 5725 to 5850 MHz, the UUT will operate on this channel; otherwise if the assigned channel is in range of 5250 to 5350 MHz, 5470 to 5725 MHz, the UUT shall select an operating channel randomly.

In each case, the UUT will select channel randomly and remember this channel when detect radar signal, so that will select unused channel by auto mode.

6.2.1.6 U-NII DETECTION BANDWIDTH



Date: 22.APR.2009 05:31:21

U-NII 99% Channel bandwidth

Detection Bandwidth Test

EUT Frequency: 5.500GHz

EUT 99% Power bandwidth: 17.10MHz

Detection bandwidth limit (80% of EUT 99% Power bandwidth): 13.68MHz

Detection Bandwidth (5508 - 5491): 17.00MHz

Test Result : PASS

Radar Frequency (Hz)	Trial Number / Detection										Detection Rate (%)
	1	2	3	4	5	6	7	8	9	10	
5.490G	Yes	Yes	No	Yes	Yes	No	No	Yes	Yes	Yes	70
5.491G (FL)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	90
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	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	No	Yes	Yes	Yes	Yes	90.0
5.509G	Yes	Yes	No	Yes	Yes	No	Yes	No	No	Yes	60.0

6.2.1.7 TRANSMIT POWER CONTROL (TPC)

DFS Report 6.2.17 section

According to FCC 15.407(h)(1) the TPC mechanism is not required for system with an e.i.r.p. of less 500mW



A D T

7. TESTING LABORATORIES INFORMATION

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 by the following approval agencies according to ISO/IEC 17025.

USA	FCC, NVLAP
Germany	TUV Rheinland
Japan	VCCI
Norway	NEMKO
Canada	INDUSTRY CANADA , CSA
R.O.C.	CNLA, BSMI, NCC
Netherlands	Telefication
Singapore	PSB , GOST-ASIA(MOU)
Russia	CERTIS(MOU)

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: 886-2-26051924

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

Web Site: www.adt.com.tw

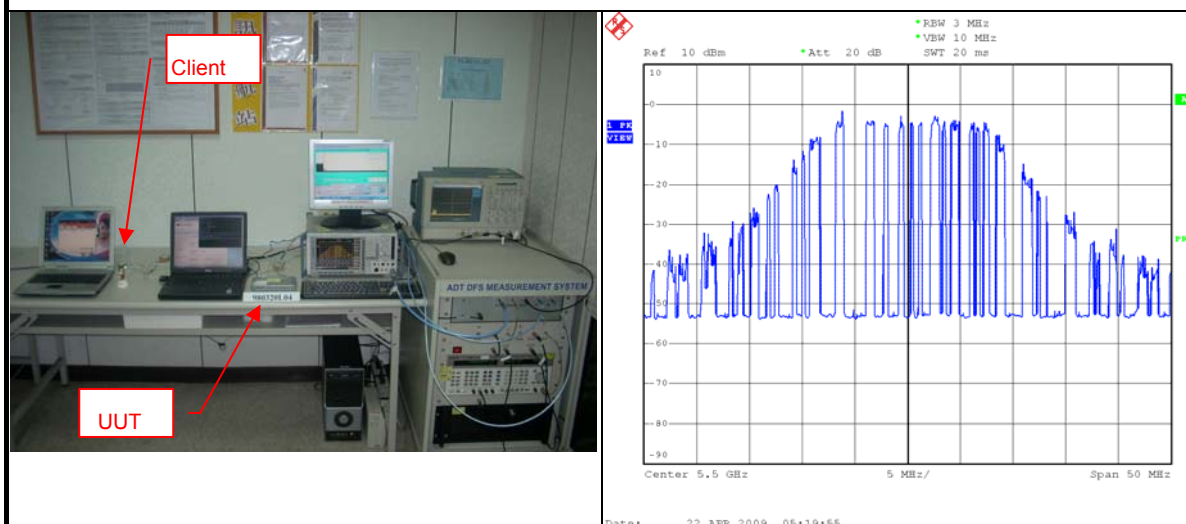
The address and road map of all our labs can be found in our web site also.

8. APPENDIX

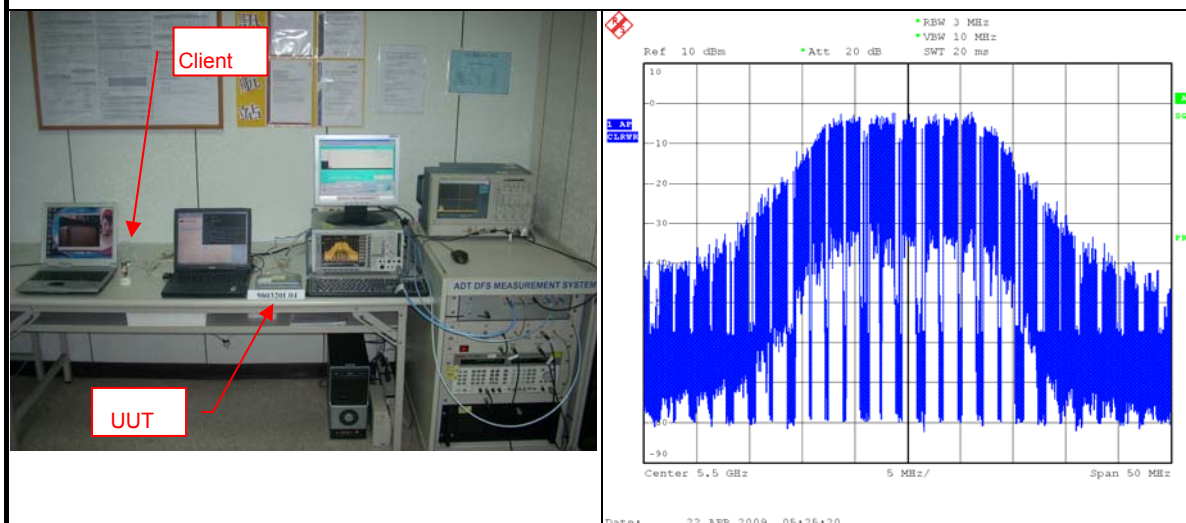
8.1 APPENDIX-A

Modifications or adding components during the test

EUT (Master) links with Client on 5500MHz



Client plays a specified file via master.





8.2 APPENDIX-B

RADAR TEST SIGNAL

B.1 The Long Pulse Radar Pattern

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_01

Number of Bursts in Trial: 11

Burst	Pulses per Burst	Chirp (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	12M	99.0u	1.193m	-	214.7m
2	3	16M	95.8u	1.064m	1.760m	968.2m
3	2	5M	76.1u	1.171m	-	954.3m
4	2	16M	79.3u	1.670m	-	893.4m
5	1	15M	53.2u	-	-	62.07m
6	2	8M	73.9u	1.683m	-	711.3m
7	2	7M	78.9u	1.645m	-	199.7m
8	1	5M	96.3u	-	-	606.9m
9	2	10M	50.7u	1.867m	-	478.5m
10	2	19M	82.6u	1.452m	-	330.6m
11	1	15M	63.7u	-	-	967.1m



Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_02

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	9M	68.5u	1.179m	-	295.7m
2	2	15M	86.4u	1.220m	-	659.7m
3	2	14M	57.3u	1.033m	-	17.73m
4	1	17M	68.5u	-	-	409.3m
5	2	10M	70.0u	1.648m	-	389.3m
6	2	16M	80.0u	1.757m	-	351.4m
7	2	14M	93.7u	1.188m	-	387.0m
8	2	18M	61.2u	1.428m	-	540.2m
9	3	10M	89.3u	1.609m	1.691m	321.3m
10	1	14M	76.1u	-	-	393.6m
11	2	20M	76.8u	1.557m	-	416.7m
12	2	19M	76.2u	1.683m	-	431.4m
13	2	9M	52.5u	1.337m	-	136.7m
14	2	7M	79.4u	979.6u	-	628.0m
15	2	13M	63.9u	1.345m	-	66.84m
16	1	19M	52.5u	-	-	77.03m
17	1	15M	51.7u	-	-	190.4m

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_03

Number of Bursts in Trial: 15

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	3	9M	61.0u	1.810m	1.285m	493.1m
2	3	10M	97.0u	1.283m	1.787m	88.90m
3	1	8M	69.3u	-	-	313.8m
4	2	13M	55.1u	1.044m	-	461.3m
5	2	6M	84.5u	1.058m	-	649.6m
6	1	6M	62.7u	-	-	591.7m
7	2	11M	96.6u	1.236m	-	231.5m
8	3	7M	74.5u	1.167m	1.653m	605.5m
9	2	8M	78.9u	1.660m	-	263.5m
10	2	13M	60.0u	1.013m	-	446.8m
11	2	8M	74.5u	1.145m	-	525.1m
12	3	8M	75.3u	1.919m	997.7u	238.5m
13	1	14M	63.9u	-	-	693.5m
14	2	10M	90.1u	1.539m	-	32.42m
15	2	17M	90.4u	1.681m	-	600.5m



Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_04

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	14M	60.3u	-	-	196.4m
2	3	19M	69.6u	1.153m	1.713m	66.81m
3	2	9M	63.2u	1.105m	-	1.056
4	2	8M	85.2u	1.737m	-	223.1m
5	1	9M	87.4u	-	-	831.3m
6	1	9M	86.1u	-	-	149.9m
7	2	20M	63.6u	1.818m	-	1.087
8	2	15M	70.7u	1.438m	-	1.021
9	2	11M	62.2u	1.841m	-	1.233

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_05

Number of Bursts in Trial: 15

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	8M	99.5u	1.617m	-	526.0m
2	1	6M	60.5u	-	-	622.9m
3	3	8M	80.8u	1.617m	1.387m	444.1m
4	2	7M	75.2u	1.873m	-	96.89m
5	2	15M	56.8u	1.027m	-	748.6m
6	3	14M	61.2u	998.8u	1.524m	635.2m
7	2	17M	98.6u	1.349m	-	163.3m
8	2	17M	80.1u	1.149m	-	478.4m
9	3	8M	81.9u	1.315m	1.234m	184.7m
10	2	19M	68.8u	1.916m	-	33.95m
11	2	19M	68.8u	1.464m	-	565.5m
12	3	17M	99.5u	1.305m	1.249m	138.7m
13	2	12M	60.5u	1.548m	-	742.5m
14	3	14M	99.3u	1.662m	1.830m	252.3m
15	3	15M	91.5u	945.5u	1.285m	363.4m



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Long Pulse Radar Test Signal

Test Signal Name: LP_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	1	16M	96.4u	-	-	148.3m
2	2	11M	64.6u	1.541m	-	42.79m
3	2	6M	83.0u	1.472m	-	515.8m
4	1	16M	76.0u	-	-	277.4m
5	2	7M	90.6u	1.709m	-	417.3m
6	2	8M	74.5u	1.270m	-	460.5m
7	1	6M	55.1u	-	-	306.8m
8	3	20M	92.9u	1.647m	976.1u	449.1m
9	1	11M	67.3u	-	-	359.8m
10	2	14M	91.6u	1.730m	-	189.7m
11	2	18M	91.8u	1.176m	-	313.4m
12	2	20M	52.1u	1.382m	-	147.7m
13	2	18M	71.4u	1.777m	-	290.4m
14	2	11M	54.7u	1.515m	-	376.5m
15	1	14M	55.5u	-	-	277.5m
16	2	5M	72.7u	1.249m	-	213.0m
17	3	7M	99.2u	1.216m	1.585m	113.9m
18	1	19M	55.6u	-	-	175.4m

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_07

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	88.4u	1.834m	-	698.7m
2	2	8M	86.6u	1.167m	-	294.3m
3	3	17M	89.3u	1.769m	1.820m	265.1m
4	2	6M	90.4u	1.125m	-	549.6m
5	1	7M	75.3u	-	-	449.8m
6	2	12M	94.5u	1.433m	-	50.81m
7	2	13M	50.4u	1.171m	-	708.6m
8	1	9M	61.1u	-	-	164.7m
9	2	17M	72.8u	1.899m	-	444.6m
10	2	17M	78.4u	1.827m	-	165.4m
11	2	14M	66.0u	1.088m	-	530.3m
12	2	15M	55.3u	1.303m	-	900.4m



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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_08

Number of Bursts in Trial: 16

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	13M	84.0u	1.024m	-	505.2m
2	1	13M	73.2u	-	-	441.5m
3	1	16M	94.0u	-	-	591.6m
4	1	6M	74.5u	-	-	443.0m
5	2	14M	99.0u	1.358m	-	223.2m
6	2	19M	94.5u	1.602m	-	234.1m
7	1	15M	99.3u	-	-	741.5m
8	1	9M	58.6u	-	-	664.3m
9	2	9M	57.1u	1.347m	-	463.3m
10	1	11M	60.2u	-	-	21.57m
11	2	14M	90.7u	1.590m	-	120.0m
12	3	7M	94.2u	1.611m	1.768m	687.5m
13	3	9M	68.6u	1.273m	1.684m	83.15m
14	2	10M	59.7u	1.937m	-	507.8m
15	2	7M	80.0u	1.803m	-	337.5m
16	1	11M	98.5u	-	-	238.9m

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_09

Number of Bursts in Trial: 16

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	1	12M	94.7u	-	-	135.2m
2	2	13M	75.0u	1.830m	-	215.1m
3	1	8M	98.9u	-	-	578.8m
4	1	14M	76.9u	-	-	542.0m
5	2	9M	53.8u	1.774m	-	663.9m
6	1	7M	96.6u	-	-	556.3m
7	3	14M	56.8u	1.452m	1.801m	251.9m
8	3	12M	57.6u	943.4u	1.730m	727.2m
9	3	11M	83.6u	1.340m	1.914m	477.1m
10	1	16M	74.5u	-	-	71.83m
11	3	7M	89.3u	1.596m	1.105m	397.1m
12	2	18M	99.3u	1.771m	-	651.0m
13	2	7M	75.0u	1.865m	-	159.1m
14	3	20M	85.0u	1.850m	1.430m	581.8m
15	1	9M	91.4u	-	-	439.6m
16	1	19M	60.3u	-	-	129.3m



Long Pulse Radar Test Signal

Test Signal Name: LP_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	3	16M	69.4u	1.451m	1.504m	77.39m
2	2	14M	53.6u	1.638m	-	1.162
3	3	6M	81.1u	1.170m	1.911m	577.5m
4	3	8M	73.1u	1.608m	1.028m	98.47m
5	2	10M	80.7u	1.763m	-	50.08m
6	3	7M	52.8u	1.725m	1.126m	406.2m
7	3	8M	72.0u	1.346m	1.904m	105.2m
8	2	8M	79.5u	934.5u	-	1.215
9	2	15M	83.8u	1.240m	-	553.3m

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_11

Number of Bursts in Trial: 15

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	3	12M	72.9u	1.738m	1.402m	529.1m
2	2	6M	88.0u	1.729m	-	473.9m
3	2	11M	94.5u	1.221m	-	25.24m
4	2	5M	68.0u	1.126m	-	475.2m
5	2	13M	51.0u	1.602m	-	546.0m
6	2	13M	86.0u	1.310m	-	555.4m
7	3	7M	82.6u	1.449m	1.168m	726.1m
8	2	16M	74.3u	1.162m	-	126.3m
9	2	5M	96.0u	1.720m	-	264.8m
10	3	13M	52.4u	1.774m	1.789m	413.3m
11	2	18M	94.8u	1.296m	-	353.1m
12	2	13M	80.3u	994.7u	-	413.0m
13	2	8M	51.4u	1.905m	-	779.4m
14	2	20M	64.2u	1.883m	-	81.49m
15	3	18M	88.0u	1.744m	1.650m	454.1m



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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_12

Number of Bursts in Trial: 13

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	10M	72.8u	1.691m	-	516.0m
2	1	6M	72.2u	-	-	705.7m
3	3	5M	82.9u	1.468m	1.355m	312.6m
4	1	9M	99.6u	-	-	236.3m
5	3	5M	73.8u	1.121m	1.093m	407.9m
6	2	9M	65.8u	1.896m	-	79.78m
7	2	12M	73.0u	1.092m	-	30.38m
8	2	12M	70.2u	1.318m	-	294.0m
9	3	8M	61.2u	1.478m	1.215m	26.87m
10	3	19M	62.3u	1.270m	1.623m	551.1m
11	2	15M	72.8u	1.136m	-	47.73m
12	3	17M	58.3u	1.796m	1.480m	639.8m
13	2	8M	80.4u	1.065m	-	512.5m

Long Pulse Radar Test Signal

Test Signal Name: LP_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	1	10M	52.3u	-	-	230.3m
2	2	10M	67.6u	1.796m	-	341.8m
3	2	15M	52.2u	1.189m	-	349.0m
4	2	10M	58.6u	1.083m	-	365.0m
5	3	17M	53.2u	1.706m	1.715m	94.11m
6	2	20M	75.4u	1.823m	-	430.7m
7	1	11M	51.3u	-	-	622.6m
8	3	14M	71.1u	1.273m	1.876m	8.713m
9	2	17M	86.8u	1.225m	-	393.3m
10	2	14M	60.2u	1.124m	-	181.2m
11	2	11M	61.5u	1.407m	-	202.2m
12	2	10M	54.3u	1.375m	-	640.0m
13	2	6M	81.3u	1.796m	-	244.5m
14	2	20M	95.6u	1.067m	-	367.9m
15	2	10M	58.7u	1.906m	-	693.4m
16	2	7M	86.9u	1.108m	-	289.2m
17	2	12M	95.8u	1.417m	-	613.2m



Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_14

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	1	17M	55.7u	-	-	440.6m
2	1	14M	61.7u	-	-	1.172
3	2	13M	82.9u	1.117m	-	289.3m
4	2	13M	91.8u	1.585m	-	886.1m
5	1	14M	60.6u	-	-	624.6m
6	2	18M	53.4u	1.430m	-	899.8m
7	3	13M	89.6u	1.431m	1.549m	433.1m
8	2	19M	66.8u	1.514m	-	58.00m
9	1	13M	61.4u	-	-	190.9m
10	2	12M	76.0u	1.888m	-	187.2m

Long Pulse Radar Test Signal

Test Signal Name: LP_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	13M	55.3u	1.906m	-	1.015
2	3	11M	94.4u	1.453m	1.495m	260.6m
3	1	11M	85.5u	-	-	148.9m
4	2	10M	88.9u	1.030m	-	759.9m
5	2	17M	52.3u	1.471m	-	636.3m
6	3	15M	80.1u	1.700m	1.556m	198.8m
7	1	20M	69.3u	-	-	1.037
8	1	7M	89.9u	-	-	306.4m
9	2	14M	66.9u	1.906m	-	1.230



Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_16

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	11M	93.0u	1.517m	-	868.7m
2	3	16M	69.9u	1.494m	1.019m	249.1m
3	3	11M	56.4u	1.031m	1.132m	694.8m
4	2	13M	70.2u	1.794m	-	580.5m
5	3	13M	76.4u	1.232m	1.471m	659.0m
6	1	20M	72.8u	-	-	897.1m
7	1	8M	57.1u	-	-	792.0m
8	1	6M	95.1u	-	-	843.7m
9	1	9M	87.1u	-	-	585.3m
10	2	8M	97.2u	1.100m	-	679.0m
11	2	12M	95.2u	1.366m	-	19.29m
12	2	10M	72.9u	1.083m	-	19.36m
13	2	12M	51.7u	1.141m	-	811.1m

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_17

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	3	12M	57.9u	944.1u	1.334m	560.9m
2	3	7M	75.4u	1.654m	996.6u	153.5m
3	2	12M	67.0u	1.336m	-	348.7m
4	3	7M	81.1u	944.9u	1.531m	862.9m
5	3	17M	93.8u	913.2u	1.406m	911.4m
6	2	13M	61.0u	1.493m	-	372.1m
7	1	9M	62.6u	-	-	337.0m
8	2	13M	85.9u	1.496m	-	610.2m
9	2	6M	54.7u	1.442m	-	878.0m
10	2	18M	89.2u	1.897m	-	363.7m
11	1	10M	75.9u	-	-	364.0m
12	2	19M	67.4u	1.930m	-	344.7m
13	2	5M	73.5u	1.758m	-	49.46m



Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_18

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	19M	53.2u	1.340m	-	445.0m
2	3	13M	55.0u	1.347m	1.274m	578.8m
3	1	17M	99.1u	-	-	184.8m
4	2	13M	62.3u	1.230m	-	132.5m
5	2	19M	55.0u	1.186m	-	240.5m
6	1	10M	87.6u	-	-	518.7m
7	2	9M	73.6u	1.875m	-	117.4m
8	3	9M	90.0u	1.463m	1.029m	7.142m
9	3	9M	66.9u	1.517m	1.392m	148.0m
10	2	14M	73.8u	1.351m	-	87.94m
11	3	8M	73.0u	1.584m	1.186m	261.9m
12	1	19M	82.1u	-	-	557.2m
13	2	16M	73.8u	1.707m	-	543.1m
14	2	7M	64.3u	1.024m	-	429.4m
15	1	10M	74.7u	-	-	204.0m
16	2	19M	81.7u	1.438m	-	489.6m
17	2	6M	87.4u	1.641m	-	595.1m

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_19

Number of Bursts in Trial: 14

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	17M	83.8u	989.2u	-	276.9m
2	2	14M	52.8u	1.870m	-	370.2m
3	3	16M	74.1u	1.177m	1.505m	498.4m
4	1	7M	58.6u	-	-	547.4m
5	1	15M	65.8u	-	-	480.4m
6	2	18M	70.8u	1.392m	-	526.1m
7	1	9M	78.6u	-	-	214.6m
8	3	6M	74.3u	1.177m	1.506m	231.5m
9	3	17M	54.1u	1.940m	1.151m	467.8m
10	2	6M	80.7u	1.181m	-	684.5m
11	2	6M	57.7u	1.050m	-	268.9m
12	2	10M	66.6u	1.196m	-	137.3m
13	2	18M	82.4u	1.267m	-	696.2m
14	1	11M	96.2u	-	-	459.3m



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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_20

Number of Bursts in Trial: 13

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	1	15M	82.9u	-	-	855.0m
2	2	14M	66.5u	1.850m	-	356.1m
3	3	7M	89.9u	1.669m	1.279m	88.73m
4	2	20M	96.6u	1.551m	-	284.4m
5	3	6M	56.9u	1.677m	1.514m	560.4m
6	1	5M	61.2u	-	-	6.846m
7	2	6M	56.5u	1.035m	-	765.9m
8	2	6M	81.7u	1.035m	-	21.11m
9	2	12M	81.5u	1.215m	-	338.0m
10	1	9M	86.3u	-	-	447.2m
11	2	5M	74.9u	1.511m	-	760.8m
12	2	8M	82.0u	1.838m	-	910.3m
13	2	6M	74.1u	1.211m	-	878.6m

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_21

Number of Bursts in Trial: 16

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	6M	60.5u	1.167m	-	406.4m
2	3	9M	66.1u	1.124m	1.034m	293.3m
3	1	15M	78.7u	-	-	745.2m
4	2	19M	57.1u	1.287m	-	608.8m
5	1	13M	62.9u	-	-	346.9m
6	2	6M	50.4u	1.593m	-	353.5m
7	2	15M	85.9u	1.767m	-	124.6m
8	2	8M	69.4u	1.816m	-	247.1m
9	1	18M	61.4u	-	-	743.3m
10	2	15M	54.1u	1.145m	-	204.9m
11	3	11M	69.8u	1.930m	1.452m	288.4m
12	2	13M	93.1u	1.469m	-	465.1m
13	2	6M	97.5u	1.027m	-	177.7m
14	3	15M	63.9u	1.366m	1.376m	110.4m
15	2	18M	91.1u	1.508m	-	555.7m
16	1	6M	68.7u	-	-	220.9m



Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_22

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	1	7M	89.2u	-	-	106.1m
2	3	13M	57.0u	1.908m	1.475m	455.7m
3	2	12M	94.8u	1.204m	-	293.6m
4	2	18M	78.3u	1.913m	-	649.9m
5	2	20M	89.8u	1.747m	-	591.0m
6	2	7M	95.4u	1.194m	-	369.2m
7	3	5M	54.3u	1.209m	977.7u	501.1m
8	1	9M	70.5u	-	-	150.6m
9	2	5M	79.0u	1.236m	-	550.3m
10	1	15M	66.4u	-	-	399.8m
11	2	8M	60.2u	1.515m	-	692.0m
12	1	17M	57.4u	-	-	406.8m
13	3	6M	85.4u	1.624m	1.169m	523.0m
14	2	20M	66.3u	1.675m	-	741.0m
15	3	14M	72.1u	977.9u	1.748m	578.7m

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_23

Number of Bursts in Trial: 16

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	3	18M	63.1u	1.854m	1.129m	447.0m
2	1	14M	86.7u	-	-	282.1m
3	1	8M	74.5u	-	-	388.7m
4	2	10M	87.5u	1.754m	-	510.1m
5	2	9M	62.1u	1.701m	-	651.0u
6	2	12M	90.7u	1.188m	-	193.6m
7	2	19M	81.0u	1.179m	-	318.9m
8	1	17M	51.2u	-	-	89.54m
9	1	19M	80.7u	-	-	584.2m
10	1	7M	60.5u	-	-	451.4m
11	2	15M	57.2u	1.451m	-	327.1m
12	1	19M	54.3u	-	-	19.08m
13	2	8M	95.6u	1.166m	-	415.4m
14	3	8M	63.6u	1.682m	1.717m	535.7m
15	2	6M	92.6u	1.172m	-	581.0m
16	2	8M	63.6u	1.114m	-	120.1m

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_24

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	1	16M	85.2u	-	-	671.6m
2	2	8M	65.2u	1.421m	-	963.4m
3	1	12M	71.5u	-	-	416.7m
4	2	12M	97.5u	1.615m	-	909.5m
5	2	12M	69.5u	1.374m	-	397.8m
6	1	19M	96.9u	-	-	540.5m
7	2	14M	88.6u	1.669m	-	579.1m
8	3	6M	67.7u	941.3u	1.899m	168.7m

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_25

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	15M	80.3u	1.027m	1.555m	715.7m
2	3	16M	69.2u	1.730m	1.899m	677.4m
3	2	19M	65.4u	1.450m	-	888.2m
4	2	18M	50.2u	1.220m	-	68.24m
5	1	13M	54.4u	-	-	792.7m
6	2	6M	80.5u	1.190m	-	746.5m
7	1	10M	55.1u	-	-	601.9m
8	3	20M	53.3u	1.584m	1.499m	971.7m
9	1	13M	88.6u	-	-	572.3m
10	3	17M	86.9u	1.503m	1.340m	397.1m
11	3	9M	66.8u	1.040m	1.774m	283.2m
12	1	18M	64.0u	-	-	631.2m



Long Pulse Radar Test Signal

Test Signal Name: LP_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	20M	96.5u	1.630m	1.677m	565.4m
2	2	9M	61.9u	1.826m	-	452.9m
3	2	20M	75.2u	1.547m	-	520.4m
4	3	9M	60.1u	1.627m	1.299m	331.5m
5	1	10M	91.7u	-	-	305.2m
6	1	8M	97.3u	-	-	446.0m
7	1	9M	91.2u	-	-	605.1m
8	3	11M	85.2u	1.102m	1.842m	365.1m
9	3	6M	54.0u	1.586m	1.584m	546.4m
10	2	14M	52.4u	1.135m	-	224.8m
11	2	5M	78.8u	1.174m	-	328.4m
12	2	15M	89.6u	1.437m	-	123.0m
13	3	15M	66.4u	1.538m	1.738m	572.5m
14	3	16M	86.9u	979.1u	1.271m	424.8m
15	1	15M	98.2u	-	-	353.4m
16	2	12M	56.1u	1.095m	-	498.7m
17	2	13M	88.7u	1.199m	-	274.7m
18	2	7M	58.0u	1.069m	-	433.3m
19	2	16M	76.9u	1.300m	-	470.6m



Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_27

Number of Bursts in Trial: 15

Burst	Pulses per Burst	Chirp (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	3	13M	77.7u	1.413m	1.659m	598.7m
2	1	19M	76.4u	-	-	344.0m
3	1	17M	81.6u	-	-	612.8m
4	2	7M	66.5u	1.731m	-	419.8m
5	2	9M	56.6u	1.426m	-	519.4m
6	2	12M	97.3u	1.877m	-	267.1m
7	2	9M	51.1u	1.815m	-	175.7m
8	3	12M	66.8u	1.920m	1.840m	180.5m
9	2	19M	84.3u	1.336m	-	796.2m
10	2	15M	98.4u	1.612m	-	737.2m
11	1	13M	90.1u	-	-	321.5m
12	1	6M	81.8u	-	-	84.91m
13	2	16M	54.7u	1.746m	-	554.6m
14	2	7M	85.8u	1.307m	-	17.42m
15	2	8M	92.8u	1.115m	-	75.77m



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Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_28

Number of Bursts in Trial: 19

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	1	17M	95.6u	-	-	36.95m
2	2	9M	82.0u	1.433m	-	399.4m
3	1	12M	71.8u	-	-	152.9m
4	2	17M	59.4u	1.091m	-	49.21m
5	2	8M	50.8u	1.117m	-	490.0m
6	3	6M	94.5u	1.259m	1.801m	136.3m
7	1	12M	54.9u	-	-	603.8m
8	2	16M	53.1u	1.322m	-	71.36m
9	1	5M	98.6u	-	-	60.91m
10	3	7M	66.1u	1.330m	1.040m	372.7m
11	2	19M	78.4u	1.099m	-	14.78m
12	2	6M	81.8u	1.474m	-	335.8m
13	2	16M	83.8u	1.352m	-	107.5m
14	1	13M	93.4u	-	-	475.8m
15	3	19M	97.8u	1.814m	983.2u	534.6m
16	1	9M	77.8u	-	-	153.0m
17	1	8M	76.8u	-	-	168.7m
18	1	15M	68.2u	-	-	480.1m
19	1	17M	62.1u	-	-	284.3m



Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_29

Number of Bursts in Trial: 14

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	1	12M	82.8u	-	-	573.6m
2	2	13M	66.2u	1.514m	-	308.5m
3	2	8M	53.6u	1.530m	-	279.1m
4	2	13M	65.3u	1.756m	-	410.6m
5	2	19M	64.7u	1.512m	-	664.5m
6	2	14M	88.6u	1.344m	-	162.1m
7	2	18M	64.0u	1.032m	-	156.5m
8	2	18M	83.5u	1.002m	-	451.4m
9	1	14M	88.0u	-	-	796.9m
10	1	10M	98.7u	-	-	565.7m
11	2	5M	59.1u	1.149m	-	262.0m
12	2	5M	67.7u	1.317m	-	231.2m
13	2	19M	99.7u	1.405m	-	588.3m
14	3	10M	50.1u	1.167m	1.227m	571.7m

Long Pulse Radar Test Signal

Test Signal Name: LP_Signal_30

Number of Bursts in Trial: 11

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	1	6M	58.1u	-	-	44.19m
2	3	8M	97.4u	1.600m	958.6u	458.9m
3	3	14M	81.4u	1.497m	1.321m	846.7m
4	2	15M	79.1u	1.369m	-	59.40m
5	1	9M	69.8u	-	-	671.8m
6	3	5M	90.8u	1.372m	1.278m	222.7m
7	1	6M	88.3u	-	-	455.9m
8	3	19M	62.0u	1.903m	1.368m	301.9m
9	2	10M	96.3u	1.155m	-	165.3m
10	2	10M	83.0u	1.157m	-	150.9m
11	2	17M	63.5u	1.137m	-	843.7m

B.2 The Frequency Hopping Radar Pattern

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_01

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.282G	2	5.514G	3	5.503G	4	5.604G
5	5.655G	6	5.342G	7	5.659G	8	5.526G
9	5.703G	10	5.562G	11	5.534G	12	5.553G
13	5.564G	14	5.442G	15	5.512G	16	5.320G
17	5.450G	18	5.670G	19	5.277G	20	5.322G
21	5.386G	22	5.469G	23	5.599G	24	5.352G
25	5.437G	26	5.529G	27	5.605G	28	5.706G
29	5.617G	30	5.349G	31	5.266G	32	5.689G
33	5.598G	34	5.488G	35	5.486G	36	5.607G
37	5.439G	38	5.431G	39	5.577G	40	5.557G
41	5.278G	42	5.412G	43	5.279G	44	5.588G
45	5.696G	46	5.291G	47	5.267G	48	5.470G
49	5.451G	50	5.332G	51	5.585G	52	5.483G
53	5.720G	54	5.411G	55	5.395G	56	5.350G
57	5.311G	58	5.300G	59	5.489G	60	5.674G
61	5.397G	62	5.434G	63	5.307G	64	5.707G
65	5.556G	66	5.552G	67	5.528G	68	5.538G
69	5.377G	70	5.566G	71	5.274G	72	5.361G
73	5.712G	74	5.641G	75	5.627G	76	5.416G
77	5.568G	78	5.520G	79	5.471G	80	5.351G
81	5.537G	82	5.326G	83	5.615G	84	5.436G
85	5.312G	86	5.293G	87	5.402G	88	5.578G
89	5.280G	90	5.632G	91	5.664G	92	5.579G
93	5.540G	94	5.284G	95	5.658G	96	5.644G
97	5.679G	98	5.309G	99	5.551G	100	5.654G



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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_02

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.506G	2	5.483G	3	5.582G	4	5.263G
5	5.347G	6	5.688G	7	5.414G	8	5.593G
9	5.420G	10	5.342G	11	5.535G	12	5.264G
13	5.441G	14	5.576G	15	5.450G	16	5.477G
17	5.411G	18	5.406G	19	5.713G	20	5.402G
21	5.331G	22	5.266G	23	5.297G	24	5.567G
25	5.341G	26	5.580G	27	5.591G	28	5.322G
29	5.611G	30	5.344G	31	5.501G	32	5.526G
33	5.707G	34	5.489G	35	5.254G	36	5.451G
37	5.308G	38	5.512G	39	5.359G	40	5.524G
41	5.614G	42	5.375G	43	5.617G	44	5.361G
45	5.271G	46	5.428G	47	5.407G	48	5.573G
49	5.293G	50	5.520G	51	5.633G	52	5.551G
53	5.417G	54	5.680G	55	5.379G	56	5.257G
57	5.499G	58	5.395G	59	5.645G	60	5.457G
61	5.432G	62	5.367G	63	5.683G	64	5.474G
65	5.558G	66	5.599G	67	5.597G	68	5.373G
69	5.608G	70	5.588G	71	5.571G	72	5.594G
73	5.676G	74	5.425G	75	5.394G	76	5.345G
77	5.485G	78	5.301G	79	5.351G	80	5.517G
81	5.265G	82	5.390G	83	5.635G	84	5.685G
85	5.287G	86	5.495G	87	5.668G	88	5.260G
89	5.677G	90	5.305G	91	5.290G	92	5.286G
93	5.545G	94	5.314G	95	5.354G	96	5.288G
97	5.410G	98	5.304G	99	5.278G	100	5.519G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_03

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.315G	2	5.588G	3	5.332G	4	5.326G
5	5.435G	6	5.681G	7	5.539G	8	5.503G
9	5.307G	10	5.406G	11	5.250G	12	5.722G
13	5.384G	14	5.645G	15	5.340G	16	5.290G
17	5.310G	18	5.506G	19	5.626G	20	5.263G
21	5.329G	22	5.376G	23	5.288G	24	5.691G
25	5.373G	26	5.610G	27	5.375G	28	5.636G
29	5.510G	30	5.488G	31	5.573G	32	5.362G
33	5.576G	34	5.686G	35	5.598G	36	5.464G
37	5.353G	38	5.434G	39	5.251G	40	5.562G
41	5.408G	42	5.618G	43	5.421G	44	5.522G
45	5.693G	46	5.709G	47	5.404G	48	5.544G
49	5.577G	50	5.423G	51	5.500G	52	5.364G
53	5.346G	54	5.324G	55	5.478G	56	5.666G
57	5.458G	58	5.678G	59	5.264G	60	5.398G
61	5.447G	62	5.366G	63	5.436G	64	5.343G
65	5.391G	66	5.347G	67	5.261G	68	5.472G
69	5.454G	70	5.542G	71	5.361G	72	5.368G
73	5.432G	74	5.419G	75	5.673G	76	5.526G
77	5.401G	78	5.429G	79	5.378G	80	5.367G
81	5.644G	82	5.603G	83	5.554G	84	5.363G
85	5.257G	86	5.599G	87	5.555G	88	5.517G
89	5.424G	90	5.652G	91	5.629G	92	5.662G
93	5.723G	94	5.687G	95	5.601G	96	5.485G
97	5.697G	98	5.405G	99	5.717G	100	5.410G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_04

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.429G	2	5.264G	3	5.702G	4	5.713G
5	5.672G	6	5.701G	7	5.451G	8	5.314G
9	5.252G	10	5.607G	11	5.386G	12	5.394G
13	5.353G	14	5.542G	15	5.663G	16	5.489G
17	5.321G	18	5.263G	19	5.477G	20	5.383G
21	5.318G	22	5.468G	23	5.514G	24	5.723G
25	5.332G	26	5.481G	27	5.584G	28	5.427G
29	5.335G	30	5.478G	31	5.380G	32	5.496G
33	5.668G	34	5.572G	35	5.563G	36	5.706G
37	5.309G	38	5.646G	39	5.574G	40	5.442G
41	5.610G	42	5.334G	43	5.381G	44	5.525G
45	5.484G	46	5.422G	47	5.270G	48	5.570G
49	5.693G	50	5.339G	51	5.254G	52	5.281G
53	5.482G	54	5.480G	55	5.533G	56	5.532G
57	5.632G	58	5.462G	59	5.418G	60	5.250G
61	5.307G	62	5.722G	63	5.558G	64	5.274G
65	5.648G	66	5.707G	67	5.526G	68	5.269G
69	5.501G	70	5.311G	71	5.650G	72	5.424G
73	5.623G	74	5.682G	75	5.631G	76	5.660G
77	5.686G	78	5.684G	79	5.265G	80	5.587G
81	5.431G	82	5.292G	83	5.576G	84	5.535G
85	5.628G	86	5.643G	87	5.361G	88	5.502G
89	5.323G	90	5.524G	91	5.419G	92	5.529G
93	5.608G	94	5.261G	95	5.402G	96	5.562G
97	5.366G	98	5.714G	99	5.471G	100	5.688G



Hopping Frequency Sequence Name: HOP_FREQ_SEQ_05

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.574G	2	5.420G	3	5.463G	4	5.526G
5	5.296G	6	5.487G	7	5.521G	8	5.564G
9	5.551G	10	5.618G	11	5.718G	12	5.567G
13	5.352G	14	5.281G	15	5.594G	16	5.265G
17	5.616G	18	5.462G	19	5.692G	20	5.598G
21	5.310G	22	5.651G	23	5.440G	24	5.357G
25	5.538G	26	5.617G	27	5.498G	28	5.452G
29	5.611G	30	5.655G	31	5.576G	32	5.605G
33	5.305G	34	5.369G	35	5.619G	36	5.672G
37	5.695G	38	5.673G	39	5.583G	40	5.675G
41	5.436G	42	5.361G	43	5.697G	44	5.688G
45	5.550G	46	5.383G	47	5.300G	48	5.623G
49	5.671G	50	5.356G	51	5.711G	52	5.302G
53	5.301G	54	5.397G	55	5.464G	56	5.641G
57	5.634G	58	5.612G	59	5.257G	60	5.283G
61	5.601G	62	5.511G	63	5.643G	64	5.628G
65	5.459G	66	5.268G	67	5.350G	68	5.489G
69	5.274G	70	5.311G	71	5.457G	72	5.401G
73	5.456G	74	5.558G	75	5.373G	76	5.719G
77	5.392G	78	5.666G	79	5.588G	80	5.514G
81	5.704G	82	5.582G	83	5.437G	84	5.471G
85	5.324G	86	5.593G	87	5.407G	88	5.290G
89	5.517G	90	5.529G	91	5.585G	92	5.519G
93	5.330G	94	5.635G	95	5.262G	96	5.282G
97	5.547G	98	5.486G	99	5.674G	100	5.406G



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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_06							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.561G	2	5.257G	3	5.345G	4	5.387G
5	5.584G	6	5.312G	7	5.722G	8	5.695G
9	5.634G	10	5.546G	11	5.465G	12	5.456G
13	5.586G	14	5.400G	15	5.438G	16	5.663G
17	5.621G	18	5.286G	19	5.719G	20	5.635G
21	5.469G	22	5.540G	23	5.624G	24	5.524G
25	5.495G	26	5.607G	27	5.705G	28	5.576G
29	5.560G	30	5.720G	31	5.253G	32	5.269G
33	5.579G	34	5.626G	35	5.396G	36	5.254G
37	5.351G	38	5.282G	39	5.327G	40	5.601G
41	5.420G	42	5.581G	43	5.418G	44	5.636G
45	5.590G	46	5.322G	47	5.417G	48	5.256G
49	5.484G	50	5.660G	51	5.672G	52	5.339G
53	5.362G	54	5.291G	55	5.347G	56	5.677G
57	5.643G	58	5.447G	59	5.479G	60	5.545G
61	5.566G	62	5.642G	63	5.412G	64	5.251G
65	5.582G	66	5.521G	67	5.523G	68	5.684G
69	5.267G	70	5.608G	71	5.651G	72	5.602G
73	5.551G	74	5.505G	75	5.558G	76	5.691G
77	5.307G	78	5.382G	79	5.308G	80	5.324G
81	5.377G	82	5.294G	83	5.704G	84	5.716G
85	5.480G	86	5.506G	87	5.594G	88	5.631G
89	5.669G	90	5.644G	91	5.588G	92	5.296G
93	5.266G	94	5.552G	95	5.436G	96	5.368G
97	5.670G	98	5.574G	99	5.659G	100	5.709G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_07							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.373G	2	5.454G	3	5.487G	4	5.557G
5	5.396G	6	5.317G	7	5.385G	8	5.470G
9	5.465G	10	5.556G	11	5.391G	12	5.692G
13	5.540G	14	5.599G	15	5.371G	16	5.525G
17	5.606G	18	5.648G	19	5.521G	20	5.294G
21	5.514G	22	5.574G	23	5.697G	24	5.617G
25	5.329G	26	5.717G	27	5.687G	28	5.449G
29	5.282G	30	5.461G	31	5.715G	32	5.575G
33	5.662G	34	5.581G	35	5.555G	36	5.447G
37	5.273G	38	5.511G	39	5.699G	40	5.693G
41	5.311G	42	5.591G	43	5.431G	44	5.614G
45	5.484G	46	5.524G	47	5.423G	48	5.270G
49	5.254G	50	5.577G	51	5.313G	52	5.264G
53	5.649G	54	5.701G	55	5.554G	56	5.420G
57	5.400G	58	5.500G	59	5.704G	60	5.515G
61	5.370G	62	5.560G	63	5.566G	64	5.352G
65	5.402G	66	5.351G	67	5.711G	68	5.714G
69	5.250G	70	5.275G	71	5.366G	72	5.708G
73	5.721G	74	5.417G	75	5.320G	76	5.696G
77	5.563G	78	5.489G	79	5.328G	80	5.661G
81	5.332G	82	5.631G	83	5.604G	84	5.306G
85	5.333G	86	5.260G	87	5.535G	88	5.340G
89	5.573G	90	5.319G	91	5.314G	92	5.253G
93	5.272G	94	5.680G	95	5.434G	96	5.498G
97	5.398G	98	5.664G	99	5.325G	100	5.301G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_08

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.460G	2	5.368G	3	5.435G	4	5.331G
5	5.670G	6	5.651G	7	5.425G	8	5.488G
9	5.444G	10	5.387G	11	5.520G	12	5.410G
13	5.436G	14	5.638G	15	5.310G	16	5.482G
17	5.567G	18	5.711G	19	5.587G	20	5.455G
21	5.661G	22	5.463G	23	5.341G	24	5.433G
25	5.395G	26	5.334G	27	5.408G	28	5.657G
29	5.543G	30	5.542G	31	5.689G	32	5.703G
33	5.415G	34	5.623G	35	5.250G	36	5.716G
37	5.339G	38	5.392G	39	5.621G	40	5.327G
41	5.374G	42	5.585G	43	5.583G	44	5.710G
45	5.361G	46	5.416G	47	5.715G	48	5.273G
49	5.345G	50	5.604G	51	5.590G	52	5.360G
53	5.464G	54	5.291G	55	5.686G	56	5.499G
57	5.332G	58	5.381G	59	5.490G	60	5.708G
61	5.655G	62	5.465G	63	5.501G	64	5.622G
65	5.617G	66	5.314G	67	5.669G	68	5.336G
69	5.601G	70	5.347G	71	5.448G	72	5.497G
73	5.363G	74	5.561G	75	5.628G	76	5.570G
77	5.637G	78	5.641G	79	5.283G	80	5.418G
81	5.516G	82	5.684G	83	5.675G	84	5.580G
85	5.653G	86	5.447G	87	5.688G	88	5.439G
89	5.403G	90	5.663G	91	5.563G	92	5.489G
93	5.704G	94	5.429G	95	5.445G	96	5.451G
97	5.419G	98	5.606G	99	5.417G	100	5.422G



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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_09

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.679G	2	5.623G	3	5.400G	4	5.722G
5	5.322G	6	5.500G	7	5.712G	8	5.624G
9	5.640G	10	5.411G	11	5.333G	12	5.560G
13	5.336G	14	5.372G	15	5.252G	16	5.416G
17	5.692G	18	5.391G	19	5.559G	20	5.334G
21	5.439G	22	5.376G	23	5.535G	24	5.598G
25	5.530G	26	5.547G	27	5.674G	28	5.605G
29	5.565G	30	5.315G	31	5.589G	32	5.656G
33	5.607G	34	5.447G	35	5.454G	36	5.341G
37	5.531G	38	5.349G	39	5.381G	40	5.402G
41	5.586G	42	5.429G	43	5.665G	44	5.568G
45	5.527G	46	5.636G	47	5.319G	48	5.509G
49	5.657G	50	5.403G	51	5.452G	52	5.487G
53	5.274G	54	5.340G	55	5.486G	56	5.321G
57	5.540G	58	5.427G	59	5.635G	60	5.345G
61	5.293G	62	5.529G	63	5.704G	64	5.302G
65	5.431G	66	5.713G	67	5.718G	68	5.551G
69	5.641G	70	5.456G	71	5.710G	72	5.676G
73	5.597G	74	5.468G	75	5.443G	76	5.323G
77	5.521G	78	5.370G	79	5.702G	80	5.532G
81	5.685G	82	5.361G	83	5.399G	84	5.386G
85	5.363G	86	5.615G	87	5.393G	88	5.347G
89	5.588G	90	5.688G	91	5.499G	92	5.504G
93	5.330G	94	5.599G	95	5.462G	96	5.687G
97	5.310G	98	5.717G	99	5.655G	100	5.576G



Hopping Frequency Sequence Name: HOP_FREQ_SEQ_10							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.266G	2	5.636G	3	5.490G	4	5.606G
5	5.359G	6	5.693G	7	5.533G	8	5.711G
9	5.685G	10	5.684G	11	5.581G	12	5.667G
13	5.712G	14	5.556G	15	5.439G	16	5.339G
17	5.660G	18	5.459G	19	5.504G	20	5.686G
21	5.432G	22	5.708G	23	5.655G	24	5.462G
25	5.522G	26	5.565G	27	5.540G	28	5.674G
29	5.657G	30	5.695G	31	5.610G	32	5.552G
33	5.529G	34	5.644G	35	5.494G	36	5.591G
37	5.332G	38	5.589G	39	5.291G	40	5.714G
41	5.631G	42	5.300G	43	5.639G	44	5.313G
45	5.327G	46	5.474G	47	5.380G	48	5.463G
49	5.546G	50	5.651G	51	5.363G	52	5.672G
53	5.440G	54	5.702G	55	5.438G	56	5.477G
57	5.524G	58	5.320G	59	5.489G	60	5.364G
61	5.638G	62	5.303G	63	5.576G	64	5.262G
65	5.624G	66	5.464G	67	5.587G	68	5.392G
69	5.430G	70	5.325G	71	5.499G	72	5.403G
73	5.563G	74	5.450G	75	5.588G	76	5.650G
77	5.704G	78	5.551G	79	5.468G	80	5.577G
81	5.447G	82	5.387G	83	5.350G	84	5.590G
85	5.301G	86	5.574G	87	5.607G	88	5.707G
89	5.564G	90	5.495G	91	5.505G	92	5.465G
93	5.539G	94	5.259G	95	5.697G	96	5.393G
97	5.471G	98	5.614G	99	5.560G	100	5.277G



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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_11							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.701G	2	5.315G	3	5.679G	4	5.462G
5	5.544G	6	5.699G	7	5.423G	8	5.678G
9	5.485G	10	5.407G	11	5.637G	12	5.386G
13	5.665G	14	5.724G	15	5.272G	16	5.715G
17	5.271G	18	5.660G	19	5.657G	20	5.654G
21	5.317G	22	5.448G	23	5.592G	24	5.471G
25	5.605G	26	5.469G	27	5.374G	28	5.324G
29	5.655G	30	5.327G	31	5.354G	32	5.437G
33	5.409G	34	5.499G	35	5.330G	36	5.446G
37	5.441G	38	5.373G	39	5.329G	40	5.301G
41	5.595G	42	5.305G	43	5.297G	44	5.375G
45	5.554G	46	5.343G	47	5.369G	48	5.335G
49	5.323G	50	5.364G	51	5.399G	52	5.623G
53	5.551G	54	5.304G	55	5.290G	56	5.468G
57	5.635G	58	5.443G	59	5.338G	60	5.721G
61	5.659G	62	5.398G	63	5.464G	64	5.563G
65	5.515G	66	5.488G	67	5.718G	68	5.538G
69	5.719G	70	5.371G	71	5.571G	72	5.529G
73	5.269G	74	5.557G	75	5.325G	76	5.700G
77	5.610G	78	5.291G	79	5.383G	80	5.262G
81	5.606G	82	5.641G	83	5.276G	84	5.546G
85	5.396G	86	5.533G	87	5.652G	88	5.337G
89	5.712G	90	5.687G	91	5.451G	92	5.457G
93	5.450G	94	5.473G	95	5.562G	96	5.575G
97	5.573G	98	5.645G	99	5.691G	100	5.379G



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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_12

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.621G	2	5.643G	3	5.518G	4	5.303G
5	5.499G	6	5.450G	7	5.304G	8	5.661G
9	5.464G	10	5.645G	11	5.274G	12	5.385G
13	5.670G	14	5.471G	15	5.613G	16	5.428G
17	5.521G	18	5.597G	19	5.528G	20	5.313G
21	5.396G	22	5.713G	23	5.391G	24	5.539G
25	5.496G	26	5.659G	27	5.461G	28	5.411G
29	5.306G	30	5.333G	31	5.457G	32	5.263G
33	5.320G	34	5.387G	35	5.534G	36	5.546G
37	5.348G	38	5.668G	39	5.378G	40	5.275G
41	5.497G	42	5.469G	43	5.442G	44	5.595G
45	5.567G	46	5.389G	47	5.403G	48	5.364G
49	5.258G	50	5.282G	51	5.583G	52	5.649G
53	5.287G	54	5.459G	55	5.441G	56	5.646G
57	5.561G	58	5.585G	59	5.697G	60	5.422G
61	5.632G	62	5.520G	63	5.488G	64	5.344G
65	5.644G	66	5.339G	67	5.571G	68	5.406G
69	5.432G	70	5.336G	71	5.517G	72	5.533G
73	5.523G	74	5.504G	75	5.316G	76	5.674G
77	5.578G	78	5.347G	79	5.283G	80	5.251G
81	5.311G	82	5.596G	83	5.338G	84	5.682G
85	5.472G	86	5.401G	87	5.375G	88	5.382G
89	5.377G	90	5.362G	91	5.463G	92	5.470G
93	5.712G	94	5.666G	95	5.439G	96	5.611G
97	5.706G	98	5.328G	99	5.559G	100	5.503G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_13

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.313G	2	5.370G	3	5.613G	4	5.702G
5	5.532G	6	5.379G	7	5.350G	8	5.376G
9	5.431G	10	5.461G	11	5.630G	12	5.453G
13	5.683G	14	5.306G	15	5.448G	16	5.653G
17	5.546G	18	5.640G	19	5.681G	20	5.480G
21	5.353G	22	5.349G	23	5.408G	24	5.628G
25	5.724G	26	5.712G	27	5.262G	28	5.299G
29	5.569G	30	5.559G	31	5.620G	32	5.716G
33	5.572G	34	5.478G	35	5.402G	36	5.605G
37	5.265G	38	5.667G	39	5.476G	40	5.615G
41	5.256G	42	5.632G	43	5.517G	44	5.624G
45	5.439G	46	5.678G	47	5.260G	48	5.436G
49	5.563G	50	5.553G	51	5.713G	52	5.662G
53	5.434G	54	5.304G	55	5.558G	56	5.358G
57	5.488G	58	5.430G	59	5.295G	60	5.331G
61	5.364G	62	5.374G	63	5.527G	64	5.272G
65	5.279G	66	5.717G	67	5.495G	68	5.254G
69	5.651G	70	5.420G	71	5.594G	72	5.296G
73	5.623G	74	5.475G	75	5.419G	76	5.396G
77	5.470G	78	5.460G	79	5.694G	80	5.498G
81	5.250G	82	5.390G	83	5.284G	84	5.591G
85	5.467G	86	5.269G	87	5.579G	88	5.581G
89	5.383G	90	5.406G	91	5.317G	92	5.255G
93	5.368G	94	5.386G	95	5.589G	96	5.698G
97	5.700G	98	5.286G	99	5.609G	100	5.494G



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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_14

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.583G	2	5.407G	3	5.451G	4	5.300G
5	5.633G	6	5.276G	7	5.306G	8	5.255G
9	5.463G	10	5.259G	11	5.621G	12	5.651G
13	5.665G	14	5.422G	15	5.599G	16	5.638G
17	5.603G	18	5.411G	19	5.398G	20	5.582G
21	5.413G	22	5.455G	23	5.624G	24	5.585G
25	5.473G	26	5.439G	27	5.311G	28	5.333G
29	5.538G	30	5.724G	31	5.419G	32	5.680G
33	5.673G	34	5.590G	35	5.394G	36	5.561G
37	5.438G	38	5.273G	39	5.456G	40	5.720G
41	5.505G	42	5.683G	43	5.345G	44	5.685G
45	5.382G	46	5.671G	47	5.416G	48	5.713G
49	5.644G	50	5.558G	51	5.321G	52	5.388G
53	5.352G	54	5.647G	55	5.363G	56	5.557G
57	5.337G	58	5.534G	59	5.556G	60	5.417G
61	5.675G	62	5.701G	63	5.409G	64	5.547G
65	5.634G	66	5.359G	67	5.522G	68	5.699G
69	5.341G	70	5.446G	71	5.494G	72	5.574G
73	5.369G	74	5.504G	75	5.291G	76	5.567G
77	5.436G	78	5.404G	79	5.658G	80	5.608G
81	5.302G	82	5.358G	83	5.354G	84	5.541G
85	5.324G	86	5.553G	87	5.269G	88	5.497G
89	5.586G	90	5.527G	91	5.265G	92	5.519G
93	5.563G	94	5.666G	95	5.482G	96	5.380G
97	5.290G	98	5.578G	99	5.694G	100	5.684G



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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_15

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.697G	2	5.644G	3	5.466G	4	5.474G
5	5.564G	6	5.505G	7	5.713G	8	5.600G
9	5.306G	10	5.692G	11	5.552G	12	5.679G
13	5.662G	14	5.460G	15	5.355G	16	5.633G
17	5.586G	18	5.608G	19	5.578G	20	5.334G
21	5.675G	22	5.471G	23	5.485G	24	5.659G
25	5.546G	26	5.651G	27	5.488G	28	5.514G
29	5.478G	30	5.254G	31	5.619G	32	5.307G
33	5.426G	34	5.461G	35	5.415G	36	5.359G
37	5.453G	38	5.605G	39	5.568G	40	5.459G
41	5.673G	42	5.540G	43	5.494G	44	5.705G
45	5.402G	46	5.511G	47	5.267G	48	5.421G
49	5.548G	50	5.724G	51	5.423G	52	5.317G
53	5.387G	54	5.290G	55	5.719G	56	5.352G
57	5.688G	58	5.536G	59	5.515G	60	5.506G
61	5.265G	62	5.615G	63	5.419G	64	5.389G
65	5.490G	66	5.354G	67	5.597G	68	5.465G
69	5.601G	70	5.555G	71	5.448G	72	5.463G
73	5.475G	74	5.596G	75	5.341G	76	5.718G
77	5.412G	78	5.544G	79	5.717G	80	5.368G
81	5.667G	82	5.312G	83	5.400G	84	5.663G
85	5.696G	86	5.523G	87	5.521G	88	5.609G
89	5.316G	90	5.539G	91	5.512G	92	5.572G
93	5.642G	94	5.322G	95	5.545G	96	5.623G
97	5.258G	98	5.444G	99	5.629G	100	5.356G



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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_16

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.391G	2	5.263G	3	5.653G	4	5.612G
5	5.451G	6	5.439G	7	5.480G	8	5.550G
9	5.345G	10	5.314G	11	5.353G	12	5.260G
13	5.496G	14	5.398G	15	5.662G	16	5.623G
17	5.264G	18	5.331G	19	5.528G	20	5.663G
21	5.471G	22	5.562G	23	5.545G	24	5.468G
25	5.600G	26	5.435G	27	5.397G	28	5.512G
29	5.511G	30	5.672G	31	5.578G	32	5.253G
33	5.546G	34	5.332G	35	5.518G	36	5.383G
37	5.485G	38	5.429G	39	5.411G	40	5.322G
41	5.683G	42	5.326G	43	5.394G	44	5.298G
45	5.519G	46	5.720G	47	5.395G	48	5.336G
49	5.289G	50	5.309G	51	5.290G	52	5.580G
53	5.357G	54	5.693G	55	5.481G	56	5.506G
57	5.478G	58	5.306G	59	5.588G	60	5.699G
61	5.708G	62	5.453G	63	5.530G	64	5.400G
65	5.490G	66	5.389G	67	5.501G	68	5.620G
69	5.564G	70	5.577G	71	5.595G	72	5.466G
73	5.717G	74	5.636G	75	5.608G	76	5.441G
77	5.525G	78	5.526G	79	5.283G	80	5.308G
81	5.355G	82	5.677G	83	5.635G	84	5.555G
85	5.420G	86	5.609G	87	5.409G	88	5.630G
89	5.524G	90	5.303G	91	5.463G	92	5.671G
93	5.432G	94	5.270G	95	5.459G	96	5.703G
97	5.321G	98	5.319G	99	5.385G	100	5.697G



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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_17							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.723G	2	5.628G	3	5.334G	4	5.716G
5	5.666G	6	5.335G	7	5.261G	8	5.500G
9	5.506G	10	5.379G	11	5.639G	12	5.420G
13	5.264G	14	5.477G	15	5.445G	16	5.273G
17	5.552G	18	5.454G	19	5.574G	20	5.554G
21	5.336G	22	5.476G	23	5.604G	24	5.498G
25	5.542G	26	5.418G	27	5.380G	28	5.429G
29	5.452G	30	5.499G	31	5.561G	32	5.394G
33	5.705G	34	5.374G	35	5.352G	36	5.677G
37	5.304G	38	5.692G	39	5.414G	40	5.502G
41	5.600G	42	5.676G	43	5.315G	44	5.306G
45	5.697G	46	5.400G	47	5.324G	48	5.645G
49	5.491G	50	5.700G	51	5.288G	52	5.522G
53	5.523G	54	5.411G	55	5.347G	56	5.271G
57	5.472G	58	5.258G	59	5.442G	60	5.332G
61	5.675G	62	5.660G	63	5.317G	64	5.640G
65	5.300G	66	5.464G	67	5.451G	68	5.684G
69	5.576G	70	5.703G	71	5.489G	72	5.459G
73	5.620G	74	5.281G	75	5.663G	76	5.643G
77	5.715G	78	5.583G	79	5.412G	80	5.494G
81	5.325G	82	5.681G	83	5.509G	84	5.424G
85	5.713G	86	5.585G	87	5.548G	88	5.377G
89	5.613G	90	5.351G	91	5.342G	92	5.637G
93	5.409G	94	5.539G	95	5.654G	96	5.357G
97	5.659G	98	5.634G	99	5.250G	100	5.593G



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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_18

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.394G	2	5.563G	3	5.620G	4	5.685G
5	5.644G	6	5.650G	7	5.256G	8	5.656G
9	5.293G	10	5.560G	11	5.322G	12	5.559G
13	5.542G	14	5.548G	15	5.470G	16	5.406G
17	5.680G	18	5.580G	19	5.367G	20	5.449G
21	5.398G	22	5.515G	23	5.292G	24	5.358G
25	5.519G	26	5.289G	27	5.264G	28	5.657G
29	5.323G	30	5.397G	31	5.568G	32	5.557G
33	5.349G	34	5.462G	35	5.597G	36	5.345G
37	5.368G	38	5.624G	39	5.713G	40	5.551G
41	5.641G	42	5.475G	43	5.416G	44	5.545G
45	5.418G	46	5.328G	47	5.436G	48	5.574G
49	5.710G	50	5.324G	51	5.341G	52	5.670G
53	5.552G	54	5.683G	55	5.381G	56	5.351G
57	5.577G	58	5.366G	59	5.490G	60	5.721G
61	5.317G	62	5.632G	63	5.494G	64	5.587G
65	5.481G	66	5.250G	67	5.516G	68	5.592G
69	5.391G	70	5.655G	71	5.422G	72	5.315G
73	5.353G	74	5.363G	75	5.565G	76	5.549G
77	5.575G	78	5.297G	79	5.336G	80	5.308G
81	5.441G	82	5.271G	83	5.423G	84	5.290G
85	5.628G	86	5.498G	87	5.318G	88	5.567G
89	5.663G	90	5.421G	91	5.723G	92	5.705G
93	5.458G	94	5.454G	95	5.594G	96	5.273G
97	5.278G	98	5.694G	99	5.621G	100	5.642G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_19

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.559G	2	5.274G	3	5.367G	4	5.311G
5	5.391G	6	5.336G	7	5.317G	8	5.622G
9	5.721G	10	5.592G	11	5.487G	12	5.620G
13	5.468G	14	5.497G	15	5.679G	16	5.464G
17	5.381G	18	5.459G	19	5.250G	20	5.658G
21	5.545G	22	5.583G	23	5.346G	24	5.570G
25	5.349G	26	5.651G	27	5.671G	28	5.261G
29	5.694G	30	5.472G	31	5.709G	32	5.443G
33	5.541G	34	5.524G	35	5.522G	36	5.469G
37	5.616G	38	5.302G	39	5.410G	40	5.553G
41	5.712G	42	5.538G	43	5.339G	44	5.515G
45	5.326G	46	5.624G	47	5.258G	48	5.504G
49	5.434G	50	5.647G	51	5.561G	52	5.692G
53	5.270G	54	5.650G	55	5.364G	56	5.540G
57	5.710G	58	5.494G	59	5.254G	60	5.289G
61	5.359G	62	5.638G	63	5.417G	64	5.429G
65	5.389G	66	5.373G	67	5.384G	68	5.673G
69	5.305G	70	5.426G	71	5.562G	72	5.407G
73	5.565G	74	5.510G	75	5.272G	76	5.475G
77	5.284G	78	5.598G	79	5.414G	80	5.309G
81	5.699G	82	5.558G	83	5.330G	84	5.703G
85	5.299G	86	5.653G	87	5.488G	88	5.365G
89	5.308G	90	5.587G	91	5.534G	92	5.618G
93	5.395G	94	5.422G	95	5.563G	96	5.471G
97	5.304G	98	5.344G	99	5.280G	100	5.306G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_20

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.456G	2	5.542G	3	5.379G	4	5.644G
5	5.486G	6	5.420G	7	5.449G	8	5.561G
9	5.299G	10	5.714G	11	5.451G	12	5.381G
13	5.411G	14	5.308G	15	5.581G	16	5.703G
17	5.309G	18	5.260G	19	5.334G	20	5.538G
21	5.478G	22	5.419G	23	5.439G	24	5.592G
25	5.329G	26	5.513G	27	5.358G	28	5.638G
29	5.341G	30	5.425G	31	5.288G	32	5.719G
33	5.612G	34	5.530G	35	5.626G	36	5.407G
37	5.472G	38	5.394G	39	5.452G	40	5.485G
41	5.663G	42	5.408G	43	5.418G	44	5.544G
45	5.471G	46	5.487G	47	5.537G	48	5.628G
49	5.558G	50	5.687G	51	5.285G	52	5.444G
53	5.664G	54	5.598G	55	5.535G	56	5.479G
57	5.540G	58	5.373G	59	5.618G	60	5.579G
61	5.552G	62	5.630G	63	5.505G	64	5.684G
65	5.311G	66	5.554G	67	5.254G	68	5.277G
69	5.547G	70	5.710G	71	5.516G	72	5.613G
73	5.477G	74	5.382G	75	5.426G	76	5.276G
77	5.705G	78	5.652G	79	5.292G	80	5.580G
81	5.498G	82	5.261G	83	5.680G	84	5.396G
85	5.461G	86	5.629G	87	5.480G	88	5.549G
89	5.458G	90	5.605G	91	5.273G	92	5.326G
93	5.279G	94	5.355G	95	5.297G	96	5.481G
97	5.447G	98	5.391G	99	5.443G	100	5.597G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_21							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.662G	2	5.363G	3	5.290G	4	5.443G
5	5.679G	6	5.504G	7	5.564G	8	5.708G
9	5.718G	10	5.390G	11	5.295G	12	5.530G
13	5.469G	14	5.667G	15	5.451G	16	5.420G
17	5.463G	18	5.347G	19	5.669G	20	5.418G
21	5.296G	22	5.430G	23	5.514G	24	5.441G
25	5.601G	26	5.592G	27	5.402G	28	5.488G
29	5.635G	30	5.723G	31	5.315G	32	5.336G
33	5.618G	34	5.685G	35	5.576G	36	5.340G
37	5.603G	38	5.254G	39	5.354G	40	5.454G
41	5.568G	42	5.641G	43	5.666G	44	5.647G
45	5.556G	46	5.313G	47	5.639G	48	5.396G
49	5.262G	50	5.693G	51	5.270G	52	5.429G
53	5.272G	54	5.252G	55	5.471G	56	5.585G
57	5.479G	58	5.482G	59	5.468G	60	5.279G
61	5.529G	62	5.668G	63	5.627G	64	5.370G
65	5.577G	66	5.537G	67	5.297G	68	5.448G
69	5.636G	70	5.706G	71	5.695G	72	5.716G
73	5.534G	74	5.392G	75	5.375G	76	5.432G
77	5.283G	78	5.554G	79	5.673G	80	5.660G
81	5.524G	82	5.532G	83	5.690G	84	5.263G
85	5.466G	86	5.631G	87	5.269G	88	5.458G
89	5.447G	90	5.377G	91	5.293G	92	5.525G
93	5.367G	94	5.384G	95	5.275G	96	5.578G
97	5.570G	98	5.304G	99	5.282G	100	5.341G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_22							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.554G	2	5.378G	3	5.715G	4	5.646G
5	5.587G	6	5.299G	7	5.468G	8	5.478G
9	5.548G	10	5.407G	11	5.657G	12	5.674G
13	5.501G	14	5.467G	15	5.671G	16	5.664G
17	5.631G	18	5.691G	19	5.268G	20	5.588G
21	5.296G	22	5.336G	23	5.717G	24	5.647G
25	5.667G	26	5.338G	27	5.556G	28	5.513G
29	5.288G	30	5.626G	31	5.636G	32	5.567G
33	5.480G	34	5.649G	35	5.481G	36	5.298G
37	5.274G	38	5.643G	39	5.702G	40	5.690G
41	5.325G	42	5.399G	43	5.712G	44	5.357G
45	5.431G	46	5.592G	47	5.384G	48	5.544G
49	5.280G	50	5.310G	51	5.395G	52	5.287G
53	5.689G	54	5.328G	55	5.439G	56	5.474G
57	5.701G	58	5.489G	59	5.698G	60	5.586G
61	5.662G	62	5.523G	63	5.703G	64	5.486G
65	5.465G	66	5.462G	67	5.686G	68	5.355G
69	5.551G	70	5.629G	71	5.277G	72	5.722G
73	5.621G	74	5.314G	75	5.444G	76	5.699G
77	5.337G	78	5.568G	79	5.710G	80	5.669G
81	5.504G	82	5.482G	83	5.382G	84	5.539G
85	5.455G	86	5.403G	87	5.418G	88	5.696G
89	5.345G	90	5.291G	91	5.509G	92	5.379G
93	5.429G	94	5.251G	95	5.452G	96	5.360G
97	5.711G	98	5.552G	99	5.302G	100	5.457G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_23

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.347G	2	5.683G	3	5.395G	4	5.658G
5	5.519G	6	5.382G	7	5.307G	8	5.723G
9	5.260G	10	5.465G	11	5.495G	12	5.485G
13	5.498G	14	5.697G	15	5.640G	16	5.282G
17	5.662G	18	5.680G	19	5.707G	20	5.615G
21	5.344G	22	5.353G	23	5.634G	24	5.310G
25	5.383G	26	5.338G	27	5.556G	28	5.372G
29	5.348G	30	5.471G	31	5.474G	32	5.330G
33	5.606G	34	5.391G	35	5.438G	36	5.575G
37	5.541G	38	5.625G	39	5.596G	40	5.445G
41	5.318G	42	5.399G	43	5.400G	44	5.426G
45	5.687G	46	5.447G	47	5.539G	48	5.475G
49	5.386G	50	5.619G	51	5.559G	52	5.555G
53	5.685G	54	5.412G	55	5.616G	56	5.343G
57	5.379G	58	5.455G	59	5.312G	60	5.478G
61	5.363G	62	5.630G	63	5.384G	64	5.503G
65	5.689G	66	5.413G	67	5.302G	68	5.381G
69	5.329G	70	5.291G	71	5.458G	72	5.668G
73	5.257G	74	5.643G	75	5.675G	76	5.645G
77	5.281G	78	5.549G	79	5.540G	80	5.667G
81	5.489G	82	5.377G	83	5.531G	84	5.294G
85	5.599G	86	5.581G	87	5.446G	88	5.283G
89	5.389G	90	5.470G	91	5.323G	92	5.628G
93	5.280G	94	5.275G	95	5.583G	96	5.621G
97	5.499G	98	5.717G	99	5.266G	100	5.609G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_24							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.333G	2	5.628G	3	5.336G	4	5.641G
5	5.647G	6	5.481G	7	5.348G	8	5.552G
9	5.601G	10	5.497G	11	5.446G	12	5.483G
13	5.723G	14	5.567G	15	5.388G	16	5.652G
17	5.506G	18	5.433G	19	5.361G	20	5.522G
21	5.716G	22	5.464G	23	5.526G	24	5.395G
25	5.722G	26	5.528G	27	5.309G	28	5.680G
29	5.665G	30	5.417G	31	5.518G	32	5.572G
33	5.578G	34	5.435G	35	5.714G	36	5.663G
37	5.624G	38	5.349G	39	5.383G	40	5.307G
41	5.465G	42	5.662G	43	5.496G	44	5.598G
45	5.382G	46	5.513G	47	5.555G	48	5.617G
49	5.500G	50	5.380G	51	5.621G	52	5.712G
53	5.576G	54	5.551G	55	5.471G	56	5.605G
57	5.721G	58	5.256G	59	5.696G	60	5.344G
61	5.354G	62	5.693G	63	5.434G	64	5.584G
65	5.561G	66	5.453G	67	5.448G	68	5.486G
69	5.672G	70	5.582G	71	5.476G	72	5.542G
73	5.593G	74	5.257G	75	5.491G	76	5.509G
77	5.371G	78	5.286G	79	5.301G	80	5.511G
81	5.474G	82	5.428G	83	5.606G	84	5.297G
85	5.379G	86	5.538G	87	5.573G	88	5.450G
89	5.404G	90	5.411G	91	5.339G	92	5.341G
93	5.294G	94	5.502G	95	5.325G	96	5.527G
97	5.377G	98	5.372G	99	5.559G	100	5.258G



Hopping Frequency Sequence Name: HOP_FREQ_SEQ_25

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.477G	2	5.509G	3	5.303G	4	5.300G
5	5.331G	6	5.406G	7	5.432G	8	5.505G
9	5.694G	10	5.559G	11	5.682G	12	5.302G
13	5.532G	14	5.388G	15	5.650G	16	5.695G
17	5.684G	18	5.573G	19	5.456G	20	5.297G
21	5.281G	22	5.405G	23	5.455G	24	5.603G
25	5.567G	26	5.526G	27	5.267G	28	5.440G
29	5.549G	30	5.651G	31	5.660G	32	5.309G
33	5.428G	34	5.436G	35	5.255G	36	5.720G
37	5.332G	38	5.676G	39	5.673G	40	5.462G
41	5.636G	42	5.519G	43	5.481G	44	5.711G
45	5.471G	46	5.294G	47	5.510G	48	5.554G
49	5.628G	50	5.484G	51	5.337G	52	5.390G
53	5.444G	54	5.664G	55	5.326G	56	5.344G
57	5.369G	58	5.511G	59	5.521G	60	5.254G
61	5.644G	62	5.437G	63	5.555G	64	5.671G
65	5.345G	66	5.480G	67	5.661G	68	5.324G
69	5.598G	70	5.352G	71	5.472G	72	5.457G
73	5.666G	74	5.268G	75	5.470G	76	5.448G
77	5.718G	78	5.290G	79	5.607G	80	5.571G
81	5.355G	82	5.370G	83	5.340G	84	5.272G
85	5.451G	86	5.346G	87	5.418G	88	5.543G
89	5.315G	90	5.498G	91	5.487G	92	5.393G
93	5.597G	94	5.688G	95	5.623G	96	5.514G
97	5.577G	98	5.723G	99	5.442G	100	5.722G



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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_26

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.721G	2	5.342G	3	5.718G	4	5.364G
5	5.701G	6	5.634G	7	5.334G	8	5.614G
9	5.672G	10	5.624G	11	5.286G	12	5.543G
13	5.388G	14	5.691G	15	5.341G	16	5.584G
17	5.336G	18	5.457G	19	5.446G	20	5.609G
21	5.283G	22	5.397G	23	5.403G	24	5.258G
25	5.483G	26	5.495G	27	5.620G	28	5.458G
29	5.424G	30	5.453G	31	5.267G	32	5.479G
33	5.698G	34	5.527G	35	5.363G	36	5.421G
37	5.572G	38	5.636G	39	5.282G	40	5.583G
41	5.579G	42	5.349G	43	5.555G	44	5.618G
45	5.379G	46	5.262G	47	5.412G	48	5.460G
49	5.373G	50	5.670G	51	5.539G	52	5.394G
53	5.423G	54	5.293G	55	5.711G	56	5.722G
57	5.477G	58	5.602G	59	5.352G	60	5.346G
61	5.649G	62	5.391G	63	5.638G	64	5.447G
65	5.613G	66	5.656G	67	5.511G	68	5.606G
69	5.444G	70	5.518G	71	5.329G	72	5.523G
73	5.428G	74	5.281G	75	5.359G	76	5.354G
77	5.623G	78	5.506G	79	5.333G	80	5.679G
81	5.622G	82	5.604G	83	5.484G	84	5.405G
85	5.252G	86	5.665G	87	5.253G	88	5.468G
89	5.413G	90	5.496G	91	5.331G	92	5.683G
93	5.714G	94	5.435G	95	5.568G	96	5.273G
97	5.607G	98	5.279G	99	5.626G	100	5.480G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_27							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.580G	2	5.689G	3	5.389G	4	5.542G
5	5.385G	6	5.373G	7	5.328G	8	5.634G
9	5.499G	10	5.661G	11	5.353G	12	5.683G
13	5.609G	14	5.481G	15	5.361G	16	5.680G
17	5.536G	18	5.504G	19	5.359G	20	5.411G
21	5.510G	22	5.258G	23	5.286G	24	5.329G
25	5.309G	26	5.483G	27	5.307G	28	5.626G
29	5.289G	30	5.349G	31	5.489G	32	5.356G
33	5.303G	34	5.579G	35	5.323G	36	5.391G
37	5.694G	38	5.365G	39	5.431G	40	5.648G
41	5.643G	42	5.358G	43	5.412G	44	5.527G
45	5.427G	46	5.651G	47	5.259G	48	5.519G
49	5.413G	50	5.674G	51	5.455G	52	5.306G
53	5.345G	54	5.376G	55	5.343G	56	5.629G
57	5.322G	58	5.270G	59	5.394G	60	5.614G
61	5.318G	62	5.409G	63	5.628G	64	5.526G
65	5.521G	66	5.691G	67	5.549G	68	5.366G
69	5.486G	70	5.517G	71	5.635G	72	5.567G
73	5.713G	74	5.342G	75	5.325G	76	5.671G
77	5.511G	78	5.312G	79	5.710G	80	5.435G
81	5.562G	82	5.425G	83	5.655G	84	5.625G
85	5.407G	86	5.603G	87	5.545G	88	5.572G
89	5.647G	90	5.602G	91	5.555G	92	5.433G
93	5.422G	94	5.503G	95	5.523G	96	5.718G
97	5.496G	98	5.669G	99	5.419G	100	5.301G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_28

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.627G	2	5.335G	3	5.501G	4	5.427G
5	5.260G	6	5.463G	7	5.348G	8	5.687G
9	5.485G	10	5.439G	11	5.376G	12	5.511G
13	5.559G	14	5.642G	15	5.671G	16	5.305G
17	5.685G	18	5.621G	19	5.347G	20	5.281G
21	5.268G	22	5.455G	23	5.554G	24	5.466G
25	5.444G	26	5.476G	27	5.603G	28	5.276G
29	5.295G	30	5.571G	31	5.716G	32	5.266G
33	5.274G	34	5.462G	35	5.655G	36	5.277G
37	5.665G	38	5.560G	39	5.456G	40	5.415G
41	5.332G	42	5.694G	43	5.553G	44	5.426G
45	5.623G	46	5.586G	47	5.318G	48	5.695G
49	5.338G	50	5.326G	51	5.662G	52	5.380G
53	5.356G	54	5.381G	55	5.544G	56	5.292G
57	5.720G	58	5.577G	59	5.290G	60	5.263G
61	5.469G	62	5.643G	63	5.310G	64	5.588G
65	5.409G	66	5.468G	67	5.561G	68	5.460G
69	5.598G	70	5.291G	71	5.368G	72	5.675G
73	5.594G	74	5.673G	75	5.286G	76	5.499G
77	5.394G	78	5.430G	79	5.699G	80	5.679G
81	5.644G	82	5.564G	83	5.388G	84	5.488G
85	5.606G	86	5.505G	87	5.383G	88	5.705G
89	5.450G	90	5.721G	91	5.722G	92	5.504G
93	5.288G	94	5.367G	95	5.574G	96	5.573G
97	5.371G	98	5.565G	99	5.712G	100	5.301G



A D T

Hopping Frequency Sequence Name: HOP_FREQ_SEQ_29

SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.516G	2	5.540G	3	5.668G	4	5.494G
5	5.253G	6	5.496G	7	5.562G	8	5.626G
9	5.405G	10	5.568G	11	5.326G	12	5.310G
13	5.688G	14	5.658G	15	5.613G	16	5.271G
17	5.600G	18	5.410G	19	5.348G	20	5.265G
21	5.345G	22	5.479G	23	5.588G	24	5.612G
25	5.315G	26	5.272G	27	5.330G	28	5.722G
29	5.670G	30	5.370G	31	5.268G	32	5.418G
33	5.302G	34	5.346G	35	5.498G	36	5.650G
37	5.254G	38	5.463G	39	5.569G	40	5.382G
41	5.662G	42	5.377G	43	5.296G	44	5.366G
45	5.417G	46	5.514G	47	5.406G	48	5.329G
49	5.459G	50	5.645G	51	5.487G	52	5.362G
53	5.396G	54	5.578G	55	5.344G	56	5.686G
57	5.274G	58	5.647G	59	5.620G	60	5.715G
61	5.511G	62	5.328G	63	5.642G	64	5.505G
65	5.589G	66	5.384G	67	5.723G	68	5.598G
69	5.564G	70	5.549G	71	5.617G	72	5.488G
73	5.284G	74	5.314G	75	5.653G	76	5.291G
77	5.692G	78	5.697G	79	5.325G	80	5.469G
81	5.397G	82	5.304G	83	5.369G	84	5.636G
85	5.500G	86	5.630G	87	5.720G	88	5.293G
89	5.483G	90	5.252G	91	5.519G	92	5.608G
93	5.712G	94	5.478G	95	5.308G	96	5.717G
97	5.436G	98	5.546G	99	5.303G	100	5.279G



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Hopping Frequency Sequence Name: HOP_FREQ_SEQ_30							
SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)	SEQ#	Frequency (Hz)
1	5.280G	2	5.326G	3	5.606G	4	5.549G
5	5.350G	6	5.453G	7	5.479G	8	5.707G
9	5.521G	10	5.363G	11	5.356G	12	5.250G
13	5.665G	14	5.646G	15	5.258G	16	5.338G
17	5.552G	18	5.527G	19	5.650G	20	5.641G
21	5.553G	22	5.702G	23	5.572G	24	5.608G
25	5.519G	26	5.585G	27	5.681G	28	5.511G
29	5.464G	30	5.618G	31	5.352G	32	5.576G
33	5.470G	34	5.448G	35	5.584G	36	5.718G
37	5.284G	38	5.337G	39	5.621G	40	5.636G
41	5.669G	42	5.331G	43	5.351G	44	5.402G
45	5.510G	46	5.598G	47	5.300G	48	5.266G
49	5.533G	50	5.296G	51	5.628G	52	5.664G
53	5.672G	54	5.715G	55	5.617G	56	5.388G
57	5.270G	58	5.551G	59	5.657G	60	5.577G
61	5.390G	62	5.688G	63	5.308G	64	5.639G
65	5.372G	66	5.307G	67	5.694G	68	5.391G
69	5.342G	70	5.399G	71	5.407G	72	5.268G
73	5.705G	74	5.655G	75	5.522G	76	5.384G
77	5.627G	78	5.445G	79	5.541G	80	5.701G
81	5.505G	82	5.532G	83	5.344G	84	5.277G
85	5.267G	86	5.431G	87	5.687G	88	5.475G
89	5.472G	90	5.659G	91	5.283G	92	5.271G
93	5.360G	94	5.406G	95	5.591G	96	5.325G
97	5.302G	98	5.704G	99	5.557G	100	5.380G