



# DFS TEST REPORT

**REPORT NO.:** RF970216L05-5  
**MODEL NO.:** MC7598  
**RECEIVED:** Feb. 17, 2008  
**TESTED:** Feb. 20 ~ Feb. 27, 2008  
**ISSUED:** Feb. 29, 2008

**APPLICANT:** Symbol Technologies, Inc.

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# 1. LAB DECLARATION

**PRODUCT:** EDA (Enterprise Digital Assistant)  
**BRAND NAME:** Symbol  
**MODEL NO.:** MC7598  
**TEST SAMPLE:** ENGINEERING SAMPLE  
**TESTED:** Feb. 20 ~ Feb. 27, 2008  
**APPLICANT:** Symbol Technologies, Inc.  
**STANDARDS:** **FCC Part 15, Subpart E (Section 15.407)**  
**FCC 06-96**

The above equipment (Model: MC7598) has been tested by **Advance Data Technology Corporation**, 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 :** *Peggy Chen* , **DATE:** Feb. 27, 2008  
Peggy Chen / Specialist

**TECHNICAL ACCEPTANCE :** *Dylan Chiou* , **DATE:** Feb. 27, 2008  
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**APPROVED BY :** *Gary Chang* , **DATE:** Feb. 27, 2008  
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
Client without radar detection and Ad hoc mode	✓	✓

### 2.2 EUT SOFTWARE AND FIRMWARE VERSION

Table 2: The EUT software/firmware version.

No.	Product	Model No.	Software/Firmware Version
1	EDA (Enterprise Digital Assistant)	MC7598	Software: BSP_16

### 2.3 DESCRIPTION OF AVAILABLE ANTENNAS TO THE EUT

Table 3: Antenna list.

<b>ANTENNA TYPE(S)</b>	Inverted F antenna Planar inverted antenna
<b>MAX. ANTENNA GAIN</b>	3.5dBi

## 2.4 EUT MAXIMUM AND MINIMUM CONDUCTED POWER

Table 4: The measured conducted output power.

IEEE 802.11A

Frequency Band(MHz)	MAX. Power		MIN. Power	
	Output Power(dBm)	Output Power(mW)	Output Power(dBm)	Output Power(mW)
5250~5350MHz	12.15	16.41	5.91	3.90
5470~5725MHz	14.24	26.55	2.20	1.66

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

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

### IEEE 802.11A

Frequency Band(MHz)	MAX. Power		MIN. Power	
	Output Power(dBm)	Output Power(mW)	Output Power(dBm)	Output Power(mW)
5250~5350MHz	15.65	36.73	9.41	8.73
5470~5725MHz	17.74	59.43	5.70	3.72

## 2.6 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 doesn't have Ad Hoc mode on DFS frequency band.**

### 3. 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	✓	Not required	✓
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.



## 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	Jun. 28, 2008
Signal generator	8645A	Agilent	May 27, 2008
Oscilloscope	TDS 5104	Tektronix	Aug. 30, 2008

### 4.2 DESCRIPTION OF SUPPORT UNITS

Table 2: Support Unit information.

No.	Product	Brand	Model No.	FCC ID	Spec.
1	802.11a/b/g Access Point	Cisco	AIR-AP124 2AG-A-K9	LDK102056	

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

Table 3: Software/Firmware information.

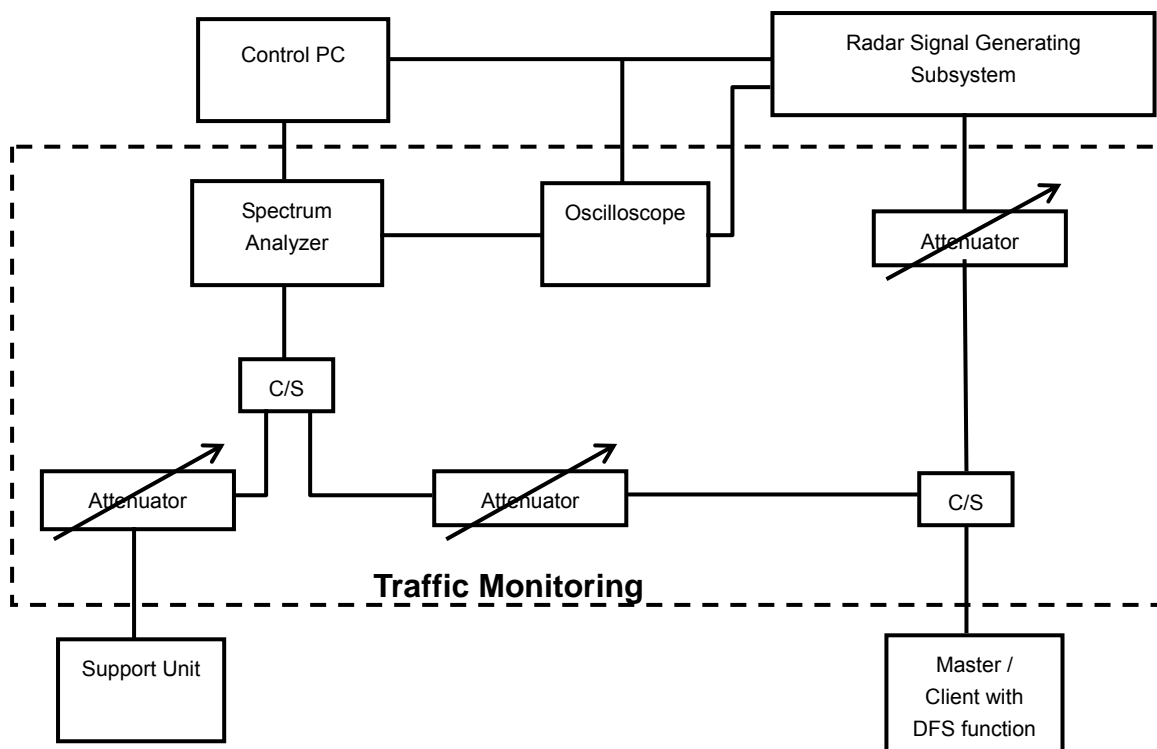
No.	Product	Model No.	Software/Firmware Version
1.	802.11a/b/g Access Point	AIR-AP1242AG-A-K9	C1240-K9W7-TAR.123-8.JEA

## 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 6, 7 and 8. The traffic monitoring subsystem is specified to the type of unit under test (UUT).

#### Conducted setup configuration of ADT DFS Measurement System



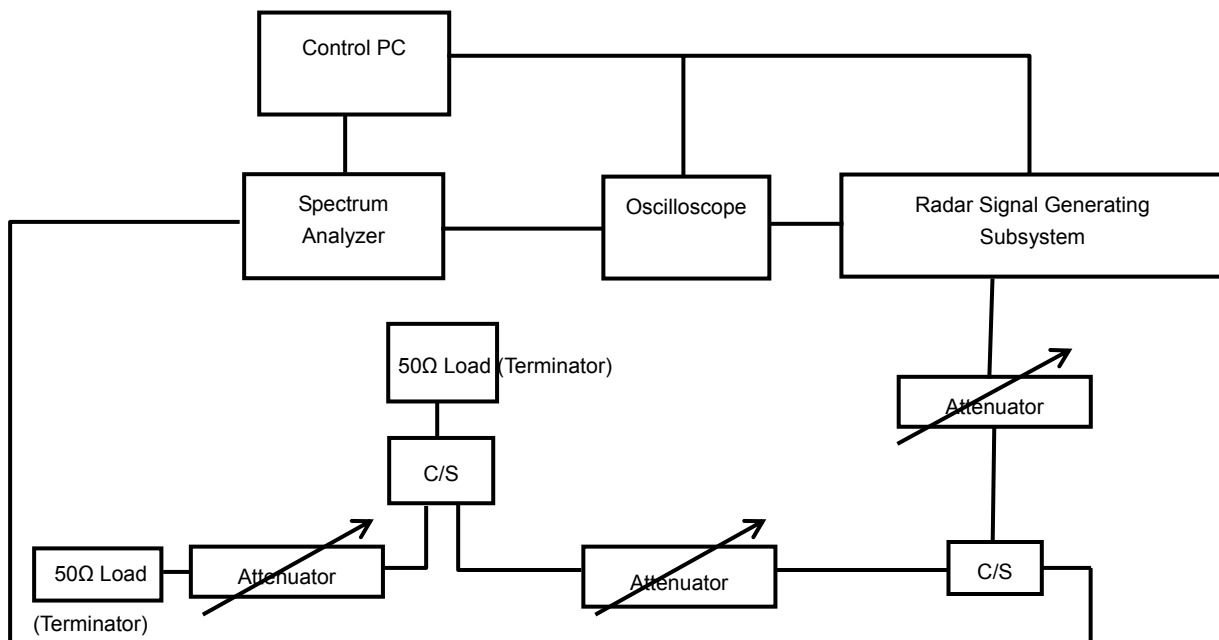
The test transmission will always be from the Master Device to the Client Device. While the Client device is set up to associate with the Master device and play the MPEG file (6  $\frac{1}{2}$  Magic Hours) from Master device, the designated MPEG test file and instructions are located at:

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

## 5.2 CALIBRATION OF DFS DETECTION THRESHOLD LEVEL:

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 Cisco Master antenna gain is 3dBi and required detection threshold is  $-58\text{dBm}$  ( $= -62 + 1 + 3$ )dBm. The calibrated conducted detection threshold level is set to  $-59\text{dBm}$ . The tested level is lower than required level hence it provides margin to the limit.

### Conducted setup configuration of Calibration of DFS Detection Threshold Level

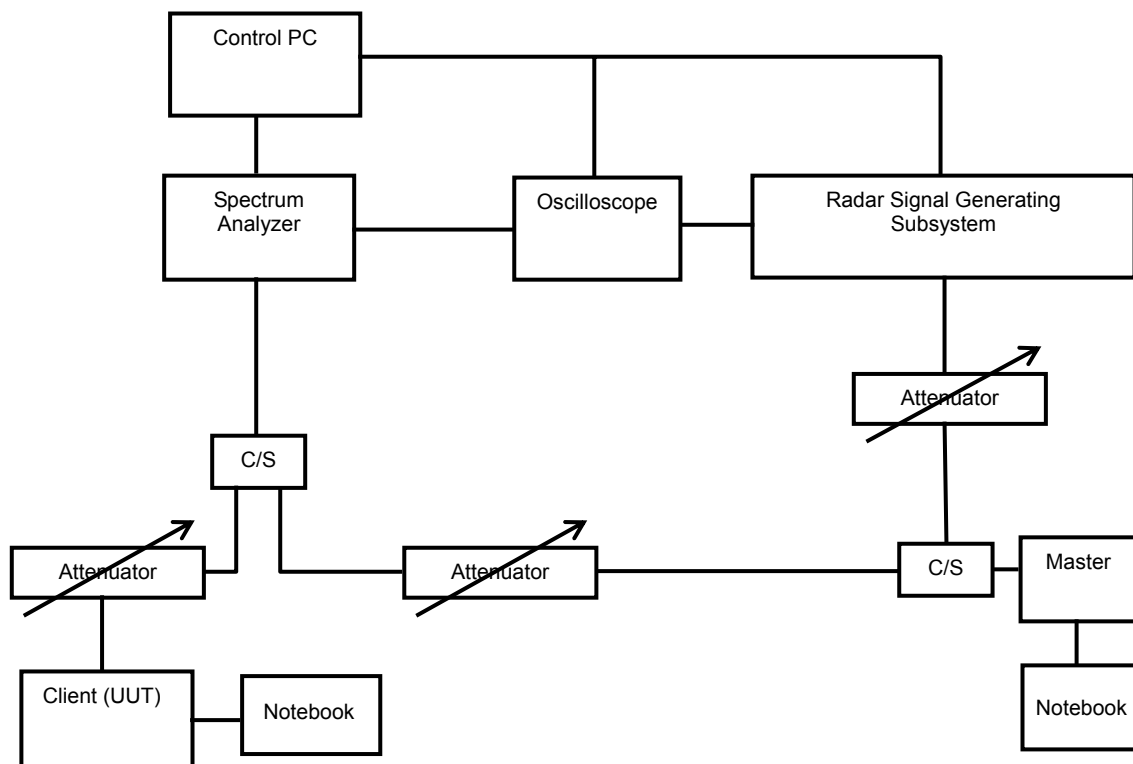


### 5.3 DEVIATION FROM TEST STANDARD

No deviation.

### 5.4 CONDUCTED TEST SETUP CONFIGURATION

#### 5.4.1 CLIENT WITHOUT RADAR DETECTION MODE



The UUT is a U-NII Device operating in Client mode without radar detection. The radar test signals are injected into the Master Device.

## 6. TEST RESULTS

### 6.1 SUMMARY OF TEST RESULT

Clause	Test Parameter	Remarks	Pass/Fail
15.407	DFS Detection Threshold	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	Not Applicable	NA
15.407	Uniform Spreading	Not Applicable	NA
15.407	U-NII Detection Bandwidth	Not Applicable	NA

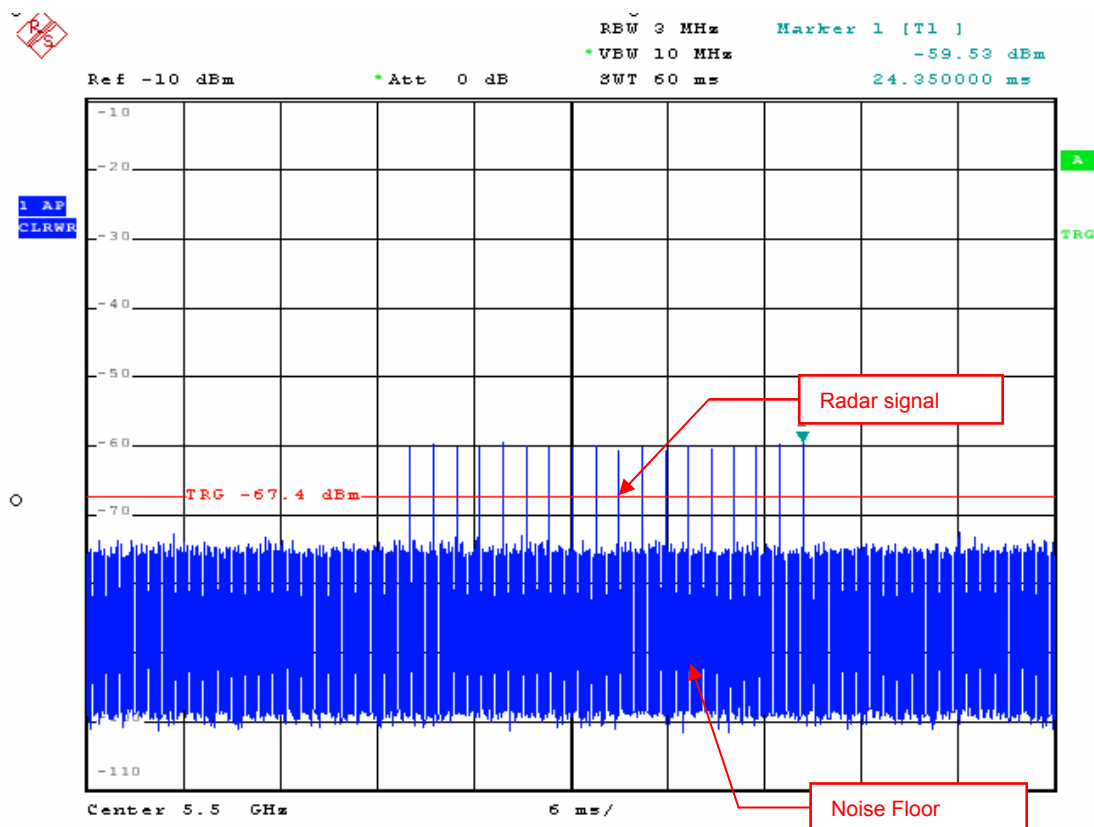
## 6.2 DETELED TEST RESULTS

### 6.2.1 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.

#### 6.2.1.1 DFS DETECTION THRESHOLD

For a detection threshold level of  $-62\text{dBm}$  and the Cisco Master antenna gain is  $3\text{dBi}$ . The Required detection threshold is  $-58\text{dBm}$  ( $= -62 + 1 + 3$ ) $\text{dBm}$ . The conducted radar burst level is set to  $-59\text{dBm}$ . The tested level is lower than required level hence it provides margin to the limit.



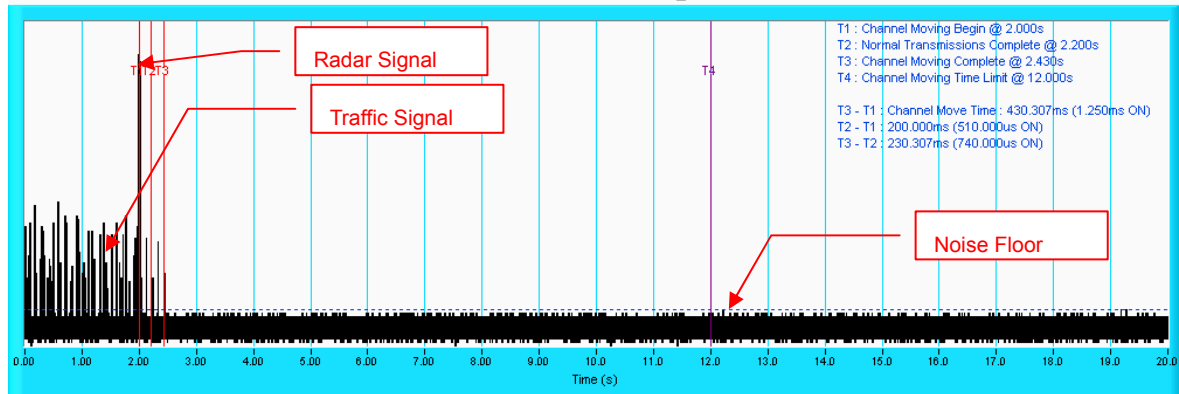
Radar Signal 1

## 6.2.1.2 CHANNEL CLOSING TRANSMISSION AND CHANNEL MOVE TIME

### Radar signal 1

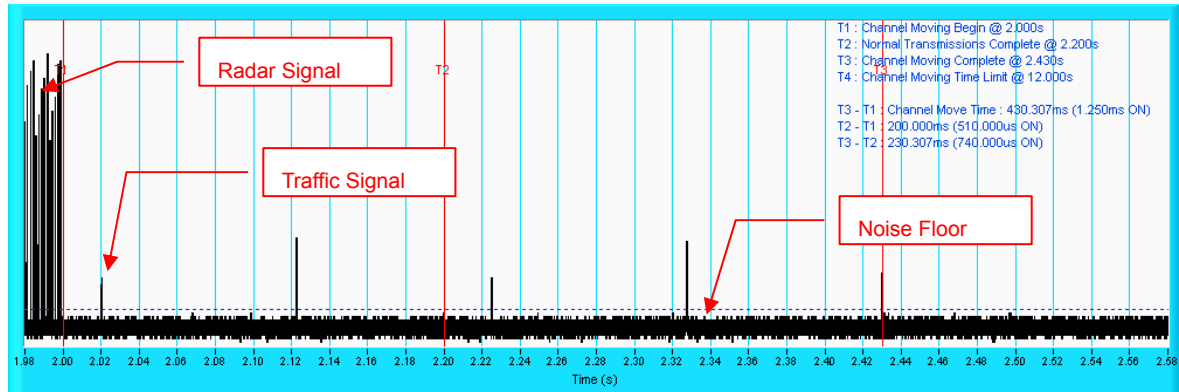
### IEEE 802.11A

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 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 200ms.





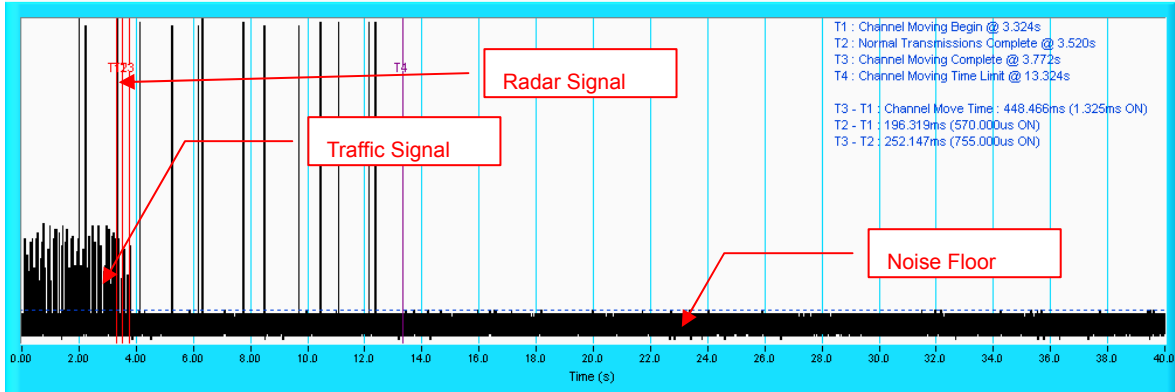
## IEEE 802.11A

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	No
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	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	No
22	18	1.0u	1.428m	No
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: 86.7 %

## Radar signal 5

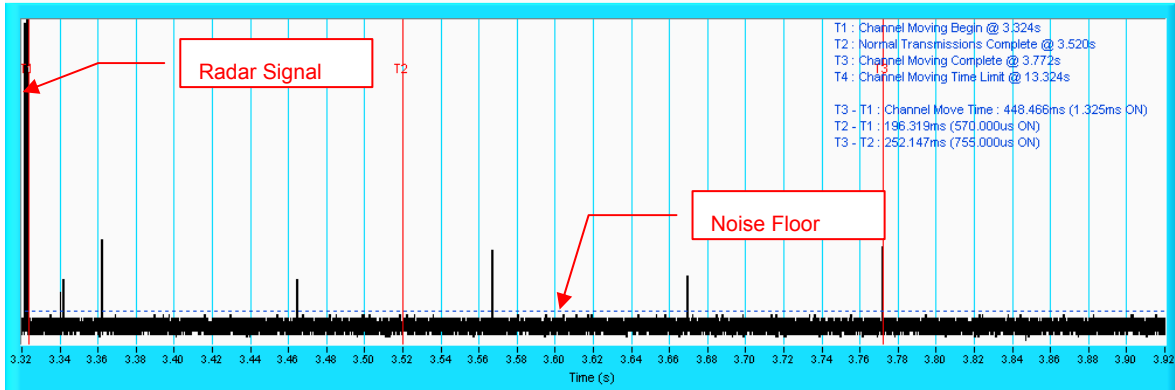
### IEEE 802.11A

#### 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 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 200ms.



### Type 5 Radar Statistical Performances

Trial #	Test Signal Name	Detection
1	LP_Signal_01	No
2	LP_Signal_02	Yes
3	LP_Signal_03	Yes
4	LP_Signal_04	No
5	LP_Signal_05	No
6	LP_Signal_06	Yes
7	LP_Signal_07	Yes
8	LP_Signal_08	Yes
9	LP_Signal_09	Yes
10	LP_Signal_10	Yes
11	LP_Signal_11	Yes
12	LP_Signal_12	Yes
13	LP_Signal_13	Yes
14	LP_Signal_14	Yes
15	LP_Signal_15	Yes
16	LP_Signal_16	Yes
17	LP_Signal_17	Yes
18	LP_Signal_18	Yes
19	LP_Signal_19	Yes
20	LP_Signal_20	Yes
21	LP_Signal_21	Yes
22	LP_Signal_22	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	No
30	LP_Signal_30	Yes

Detection Rate: 86.7 %



Long Pulse Radar Test Signal  
 Test Signal Name: LP\_Signal\_01  
 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	17M	52.9u	1.026m	1.718m	835.4m
2	1	9M	55.4u	-	-	176.2m
3	2	10M	99.3u	934.7u	-	442.5m
4	1	13M	58.5u	-	-	379.6m
5	2	10M	57.2u	1.877m	-	661.9m
6	1	6M	52.7u	-	-	713.6m
7	3	14M	62.8u	1.047m	1.894m	7.957m
8	3	7M	81.4u	1.730m	1.679m	559.2m
9	1	7M	50.7u	-	-	436.3m
10	2	16M	54.4u	1.133m	-	796.1m
11	3	10M	90.3u	1.286m	995.7u	712.4m
12	2	6M	96.3u	977.7u	-	471.1m
13	3	12M	89.2u	1.117m	1.244m	693.9m
14	2	20M	78.4u	1.206m	-	34.56m

Long Pulse Radar Test Signal  
 Test Signal Name: LP\_Signal\_02  
 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	7M	95.1u	1.025m	1.338m	852.5m
2	2	14M	56.9u	1.298m	-	1.271
3	2	19M	91.3u	1.094m	-	329.0m
4	2	8M	60.6u	1.145m	-	1.224
5	2	18M	66.2u	956.8u	-	1.296
6	1	14M	93.3u	-	-	531.4m
7	3	15M	50.4u	1.900m	1.593m	504.7m
8	2	12M	71.2u	1.627m	-	959.5m
9	3	19M	91.9u	1.584m	969.1u	8.901m



Long Pulse Radar Test Signal  
 Test Signal Name: LP\_Signal\_03  
 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	15M	89.3u	1.258m	-	583.3m
2	1	7M	81.4u	-	-	80.81m
3	1	9M	68.5u	-	-	651.2m
4	3	17M	74.8u	1.465m	1.454m	189.6m
5	2	20M	59.9u	1.851m	-	643.4m
6	2	9M	97.7u	1.339m	-	13.07m
7	1	16M	53.3u	-	-	661.1m
8	3	13M	64.5u	1.478m	1.184m	413.5m
9	2	8M	50.6u	1.105m	-	390.7m
10	1	16M	73.3u	-	-	428.3m
11	1	9M	56.3u	-	-	429.5m
12	2	11M	77.5u	1.300m	-	230.6m
13	1	11M	53.6u	-	-	146.6m
14	2	7M	72.9u	968.1u	-	144.9m
15	1	6M	93.4u	-	-	172.0m
16	2	6M	66.1u	1.417m	-	400.1m
17	1	11M	52.8u	-	-	417.8m

## Long Pulse Radar Test Signal

Test Signal Name: LP\_Signal\_04

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	14M	86.9u	1.587m	-	256.3m
2	3	10M	87.8u	1.036m	1.156m	3.678m
3	1	10M	88.5u	-	-	156.3m
4	2	13M	79.0u	1.820m	-	72.42m
5	3	5M	53.2u	1.572m	1.604m	87.09m
6	2	5M	98.3u	1.893m	-	463.9m
7	2	19M	62.4u	1.598m	-	130.3m
8	3	6M	61.4u	1.333m	1.044m	239.8m
9	2	19M	83.5u	1.556m	-	269.8m
10	1	19M	66.4u	-	-	204.2m
11	1	14M	94.8u	-	-	412.0m
12	2	16M	90.3u	1.416m	-	369.7m
13	2	14M	98.2u	1.279m	-	102.0m
14	2	14M	65.2u	1.118m	-	309.1m
15	3	16M	93.7u	915.3u	950.3u	621.3m
16	2	11M	71.5u	1.586m	-	103.7m
17	2	12M	92.2u	1.482m	-	183.3m
18	2	19M	56.4u	1.260m	-	265.5m
19	1	8M	90.9u	-	-	470.1m



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	5M	77.2u	1.600m	-	570.4m
2	2	10M	65.4u	1.804m	-	714.2m
3	2	6M	70.7u	1.442m	-	555.4m
4	1	13M	54.1u	-	-	661.6m
5	2	5M	98.1u	1.314m	-	66.55m
6	1	7M	83.9u	-	-	137.7m
7	1	6M	84.5u	-	-	54.98m
8	3	11M	84.6u	1.382m	1.338m	520.4m
9	1	14M	84.4u	-	-	306.5m
10	1	16M	57.2u	-	-	14.31m
11	3	14M	60.9u	1.204m	1.552m	697.0m
12	3	7M	53.3u	1.858m	1.549m	199.2m
13	1	7M	82.5u	-	-	738.8m
14	2	7M	56.4u	1.005m	-	514.5m
15	2	6M	87.5u	922.5u	-	711.2m

Long Pulse Radar Test Signal  
 Test Signal Name: LP\_Signal\_06  
 Number of Bursts in Trial: 14

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	16M	92.2u	948.8u	-	580.4m
2	1	14M	62.1u	-	-	453.4m
3	2	8M	75.5u	1.880m	-	672.8m
4	2	7M	82.2u	1.249m	-	521.2m
5	3	18M	65.2u	1.681m	1.309m	99.32m
6	1	19M	91.9u	-	-	828.5m
7	3	15M	87.4u	1.368m	1.516m	15.06m
8	2	15M	77.1u	1.550m	-	620.8m
9	2	15M	51.7u	1.707m	-	23.09m
10	2	14M	66.0u	1.133m	-	33.86m
11	1	5M	64.9u	-	-	855.7m
12	2	15M	93.5u	1.190m	-	65.58m
13	2	16M	72.3u	975.7u	-	277.7m
14	3	5M	91.9u	917.1u	1.065m	407.2m



Long Pulse Radar Test Signal  
 Test Signal Name: LP\_Signal\_07  
 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	80.2u	1.913m	-	1.085
2	2	9M	88.8u	1.801m	-	308.2m
3	3	12M	94.9u	1.616m	1.679m	40.33m
4	2	7M	68.5u	1.332m	-	1.149
5	2	15M	68.7u	1.485m	-	497.7m
6	1	10M	63.6u	-	-	1.143
7	2	8M	51.6u	1.102m	-	914.9m
8	1	7M	68.0u	-	-	345.2m
9	3	8M	99.1u	1.802m	1.181m	621.1m

Long Pulse Radar Test Signal  
 Test Signal Name: LP\_Signal\_08  
 Number of Bursts in Trial: 9

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	3	15M	96.8u	1.764m	978.2u	179.5m
2	2	9M	64.2u	1.724m	-	632.0m
3	2	8M	79.5u	1.476m	-	907.2m
4	2	7M	79.3u	1.580m	-	799.9m
5	1	19M	93.7u	-	-	1.149
6	2	11M	55.8u	970.2u	-	881.8m
7	1	11M	67.5u	-	-	10.89m
8	2	19M	95.9u	1.261m	-	1.139
9	2	16M	83.1u	1.175m	-	509.5m





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	3	5M	87.1u	1.082m	989.9u	481.1m
2	3	17M	61.4u	1.414m	1.120m	391.2m
3	3	14M	72.4u	1.029m	1.404m	111.3m
4	2	13M	75.4u	1.144m	-	323.7m
5	2	12M	95.5u	1.018m	-	132.5m
6	2	16M	87.7u	1.791m	-	467.6m
7	1	11M	92.0u	-	-	589.1m
8	2	6M	68.9u	1.698m	-	356.6m
9	2	17M	79.5u	1.173m	-	730.1m
10	3	8M	99.3u	1.044m	1.409m	588.6m
11	3	8M	52.4u	1.778m	1.535m	433.0m
12	2	13M	91.3u	1.096m	-	272.0m
13	2	15M	73.2u	1.249m	-	143.7m
14	3	8M	64.2u	937.8u	984.8u	87.00m
15	2	14M	92.2u	1.591m	-	200.3m
16	2	15M	78.2u	1.621m	-	316.7m

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_10						
Number of Bursts in Trial: 17						
Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	3	18M	99.9u	1.717m	1.698m	561.5m
2	2	9M	60.1u	1.821m	-	494.6m
3	2	8M	61.8u	1.901m	-	534.8m
4	2	11M	91.7u	937.3u	-	447.7m
5	2	17M	68.6u	1.384m	-	219.0m
6	2	17M	60.1u	1.928m	-	26.95m
7	2	5M	84.4u	1.649m	-	72.69m
8	2	7M	50.8u	1.106m	-	524.3m
9	2	8M	60.7u	1.299m	-	257.8m
10	2	15M	78.2u	1.392m	-	577.1m
11	1	5M	92.1u	-	-	479.5m
12	3	17M	68.1u	1.868m	1.225m	173.7m
13	3	19M	70.0u	1.361m	1.059m	532.9m
14	2	8M	80.5u	1.067m	-	321.3m
15	2	15M	85.3u	1.642m	-	281.8m
16	3	9M	94.6u	1.644m	1.042m	381.9m
17	1	10M	97.2u	-	-	46.51m

Long Pulse Radar Test Signal  
 Test Signal Name: LP\_Signal\_11  
 Number of Bursts in Trial: 20

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	15M	94.4u	1.763m	-	489.9m
2	3	9M	87.6u	989.4u	1.746m	291.7m
3	3	17M	67.3u	1.210m	1.030m	531.5m
4	2	10M	91.9u	952.1u	-	524.9m
5	1	12M	89.5u	-	-	363.4m
6	2	17M	85.3u	1.075m	-	470.7m
7	2	8M	77.9u	1.576m	-	493.7m
8	1	9M	55.3u	-	-	527.0m
9	2	10M	60.0u	1.194m	-	399.5m
10	1	17M	62.0u	-	-	226.7m
11	2	16M	76.6u	1.063m	-	308.8m
12	1	17M	91.2u	-	-	496.4m
13	3	6M	65.2u	1.645m	1.523m	139.1m
14	1	7M	78.0u	-	-	208.8m
15	2	15M	74.7u	1.314m	-	309.8m
16	2	13M	56.4u	1.071m	-	89.45m
17	2	18M	87.1u	1.660m	-	133.9m
18	3	12M	66.7u	1.536m	1.019m	213.6m
19	1	11M	55.5u	-	-	258.4m
20	2	5M	78.8u	1.541m	-	307.1m



Long Pulse Radar Test Signal  
 Test Signal Name: LP\_Signal\_12  
 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	8M	79.8u	966.2u	-	774.9m
2	3	5M	53.4u	1.498m	1.099m	124.8m
3	1	7M	75.3u	-	-	938.3m
4	2	19M	69.7u	1.346m	-	44.31m
5	3	16M	70.1u	1.292m	942.9u	974.8m
6	2	10M	81.3u	1.874m	-	1.035
7	1	11M	78.0u	-	-	106.1m
8	3	9M	92.0u	1.253m	1.604m	16.28m
9	2	19M	82.7u	1.420m	-	993.9m
10	2	11M	54.1u	1.059m	-	40.33m
11	2	10M	92.4u	1.485m	-	433.1m

Long Pulse Radar Test Signal  
 Test Signal Name: LP\_Signal\_13  
 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	15M	60.8u	1.490m	1.172m	1.068
2	2	9M	55.5u	1.218m	-	22.88m
3	3	18M	66.9u	1.657m	1.286m	1.258
4	2	19M	99.1u	1.521m	-	189.0m
5	2	15M	52.6u	1.708m	-	1.225
6	2	11M	88.4u	974.6u	-	210.6m
7	2	17M	96.7u	1.714m	-	313.7m
8	2	14M	95.4u	1.740m	-	905.5m



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	6M	99.8u	-	-	543.8m
2	1	20M	68.6u	-	-	1.078
3	2	20M	50.9u	1.141m	-	42.19m
4	2	8M	62.2u	1.404m	-	1.153
5	1	13M	54.6u	-	-	1.086
6	2	17M	87.9u	1.389m	-	663.6m
7	2	7M	59.0u	1.579m	-	419.9m
8	2	7M	57.3u	1.115m	-	1.101
9	2	17M	75.6u	1.377m	-	439.5m
10	2	19M	64.7u	979.3u	-	697.9m

Long Pulse Radar Test Signal  
 Test Signal Name: LP\_Signal\_15  
 Number of Bursts in Trial: 12

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	7M	59.1u	1.246m	-	931.1m
2	2	19M	90.3u	1.381m	-	434.6m
3	2	10M	78.5u	1.308m	-	913.8m
4	3	9M	99.2u	923.8u	1.439m	757.6m
5	3	7M	91.5u	950.5u	1.110m	302.9m
6	2	7M	50.5u	1.083m	-	434.1m
7	2	12M	55.3u	1.127m	-	145.4m
8	2	15M	75.5u	1.355m	-	352.6m
9	3	17M	56.1u	1.863m	1.901m	68.41m
10	2	14M	66.5u	1.634m	-	584.2m
11	2	16M	95.4u	1.561m	-	874.6m
12	3	18M	90.3u	1.803m	1.752m	873.3m



Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_16						
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	10M	76.4u	1.179m	1.792m	392.9m
2	3	7M	88.1u	1.612m	1.844m	483.4m
3	3	8M	60.0u	1.412m	1.209m	260.6m
4	2	8M	69.9u	1.140m	-	237.9m
5	3	10M	73.3u	1.168m	1.087m	314.0m
6	1	15M	75.6u	-	-	627.3m
7	3	19M	96.3u	1.311m	1.255m	216.2m
8	3	17M	83.8u	1.384m	1.326m	266.1m
9	3	16M	67.0u	1.103m	1.926m	42.27m
10	2	14M	66.6u	1.802m	-	50.39m
11	2	8M	97.3u	1.736m	-	424.4m
12	2	19M	82.6u	1.777m	-	585.0m
13	1	9M	88.9u	-	-	433.7m
14	2	12M	72.3u	1.841m	-	568.9m
15	1	16M	65.1u	-	-	334.9m
16	2	9M	68.1u	1.325m	-	625.1m
17	3	13M	50.9u	1.352m	1.366m	526.1m
18	2	18M	77.8u	1.768m	-	56.56m
19	3	10M	86.4u	1.127m	1.276m	475.1m



Long Pulse Radar Test Signal  
 Test Signal Name: LP\_Signal\_17  
 Number of Bursts in Trial: 11

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	9M	92.2u	1.141m	-	412.1m
2	1	19M	68.7u	-	-	524.5m
3	1	8M	93.5u	-	-	1.027
4	3	14M	88.3u	1.855m	1.286m	63.41m
5	2	8M	57.8u	1.592m	-	30.22m
6	2	12M	51.1u	1.926m	-	918.5m
7	2	12M	88.0u	1.144m	-	940.9m
8	2	5M	95.3u	1.155m	-	112.9m
9	3	10M	82.1u	1.422m	1.243m	939.3m
10	2	10M	99.2u	1.794m	-	985.5m
11	1	14M	88.2u	-	-	274.1m

Long Pulse Radar Test Signal  
 Test Signal Name: LP\_Signal\_18  
 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	11M	75.1u	1.792m	1.013m	540.5m
2	2	6M	72.0u	1.634m	-	477.6m
3	2	11M	65.4u	1.824m	-	38.28m
4	2	10M	69.4u	1.614m	-	631.7m
5	2	19M	89.4u	939.6u	-	131.7m
6	1	12M	51.7u	-	-	169.6m
7	2	17M	61.7u	1.847m	-	47.02m
8	2	7M	67.2u	1.187m	-	377.2m
9	2	12M	55.9u	1.167m	-	72.39m
10	2	6M	92.6u	1.572m	-	206.4m
11	3	14M	56.1u	983.9u	1.289m	215.7m
12	2	10M	98.2u	1.249m	-	148.0u
13	2	17M	53.8u	1.026m	-	577.2m
14	2	11M	91.0u	1.435m	-	106.2m
15	2	11M	55.4u	1.379m	-	370.1m
16	2	6M	68.3u	1.050m	-	666.7m



Long Pulse Radar Test Signal  
 Test Signal Name: LP\_Signal\_19  
 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	12M	89.2u	1.071m	-	795.9m
2	2	11M	75.7u	1.833m	-	92.70m
3	1	14M	57.2u	-	-	521.3m
4	2	10M	77.6u	1.394m	-	369.2m
5	3	9M	96.8u	1.881m	1.566m	680.0m
6	3	17M	52.9u	1.735m	996.1u	340.7m
7	3	14M	57.9u	1.660m	1.754m	360.1m
8	1	11M	64.0u	-	-	497.6m
9	1	14M	57.9u	-	-	239.1m
10	3	7M	94.5u	1.247m	1.906m	674.5m
11	2	14M	78.7u	1.290m	-	379.6m
12	3	18M	82.9u	1.420m	1.917m	286.3m
13	2	6M	83.4u	1.088m	-	481.2m
14	1	11M	88.8u	-	-	379.9m
15	2	17M	78.5u	1.602m	-	257.5m

Long Pulse Radar Test Signal  
 Test Signal Name: LP\_Signal\_20  
 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	7M	52.9u	1.731m	1.707m	601.3m
2	2	9M	54.2u	1.359m	-	342.6m
3	3	9M	52.6u	1.623m	1.213m	457.7m
4	3	11M	59.8u	1.095m	1.409m	1.058
5	3	5M	65.4u	1.834m	1.916m	892.4m
6	3	6M	97.8u	1.237m	1.657m	859.9m
7	2	16M	85.9u	1.606m	-	543.8m
8	3	16M	88.4u	1.317m	1.076m	620.9m
9	2	6M	82.2u	1.122m	-	954.1m
10	1	7M	96.5u	-	-	604.9m
11	3	14M	68.1u	1.104m	1.711m	893.6m





Long Pulse Radar Test Signal  
 Test Signal Name: LP\_Signal\_21  
 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	15M	61.2u	1.738m	-	593.4m
2	3	11M	74.5u	1.903m	1.435m	343.9m
3	1	5M	93.9u	-	-	675.2m
4	1	10M	67.1u	-	-	407.9m
5	2	8M	96.3u	1.864m	-	132.3m
6	2	10M	94.6u	1.068m	-	40.08m
7	2	14M	77.5u	1.148m	-	382.8m
8	1	9M	71.0u	-	-	728.4m
9	2	7M	94.2u	1.729m	-	700.2m
10	3	5M	56.3u	1.648m	1.934m	334.3m
11	3	9M	95.9u	1.206m	1.627m	828.5m
12	1	18M	51.3u	-	-	402.6m
13	3	18M	69.6u	1.045m	1.890m	785.9m
14	2	20M	54.6u	1.293m	-	500.0m

Long Pulse Radar Test Signal  
 Test Signal Name: LP\_Signal\_22  
 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	66.9u	-	-	233.0m
2	2	11M	59.1u	1.860m	-	703.7m
3	2	17M	54.9u	1.779m	-	875.5m
4	1	19M	61.8u	-	-	874.9m
5	1	9M	80.5u	-	-	305.2m
6	3	6M	95.6u	1.590m	1.642m	395.9m
7	2	13M	84.9u	1.205m	-	755.6m
8	1	17M	69.1u	-	-	745.3m
9	2	16M	52.6u	1.306m	-	106.1m
10	2	11M	90.3u	1.609m	-	398.1m
11	2	19M	90.0u	1.601m	-	710.2m
12	2	18M	71.2u	1.210m	-	439.5m
13	1	11M	82.9u	-	-	250.7m



Long Pulse Radar Test Signal  
 Test Signal Name: LP\_Signal\_23  
 Number of Bursts in Trial: 15

Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	2	6M	52.8u	1.541m	-	673.8m
2	3	16M	84.5u	1.189m	1.705m	637.0m
3	3	10M	62.8u	1.719m	1.773m	463.6m
4	2	7M	52.8u	973.2u	-	548.7m
5	2	18M	95.6u	1.015m	-	499.6m
6	1	16M	92.7u	-	-	201.3m
7	3	10M	99.2u	1.331m	905.8u	87.83m
8	3	10M	92.0u	1.092m	1.634m	281.4m
9	1	8M	87.8u	-	-	672.4m
10	2	14M	86.3u	945.7u	-	32.23m
11	1	10M	58.1u	-	-	279.2m
12	2	10M	65.4u	1.695m	-	570.1m
13	3	9M	51.5u	1.587m	1.475m	53.53m
14	3	5M	86.9u	993.1u	996.1u	600.5m
15	2	14M	60.8u	1.906m	-	476.0m

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_24						
Number of Bursts in Trial: 17						
Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	3	19M	83.9u	1.824m	1.178m	22.20m
2	3	16M	59.5u	1.022m	1.164m	676.6m
3	3	17M	90.5u	1.010m	1.902m	285.2m
4	1	6M	90.6u	-	-	205.0u
5	1	7M	64.6u	-	-	251.9m
6	1	12M	66.9u	-	-	372.5m
7	3	18M	71.1u	1.758m	1.210m	295.6m
8	3	11M	59.0u	1.568m	1.532m	199.6m
9	3	15M	88.6u	1.224m	1.258m	440.0m
10	1	6M	93.1u	-	-	72.13m
11	3	19M	92.7u	1.550m	1.447m	698.3m
12	2	9M	81.1u	1.261m	-	352.1m
13	2	12M	96.7u	1.431m	-	63.72m
14	1	16M	74.4u	-	-	74.73m
15	1	5M	89.4u	-	-	147.2m
16	3	14M	65.8u	1.142m	1.734m	500.6m
17	3	6M	89.4u	1.359m	1.721m	245.8m



Long Pulse Radar Test Signal  
 Test Signal Name: LP\_Signal\_25  
 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	8M	59.9u	-	-	614.5m
2	2	18M	75.1u	1.403m	-	458.9m
3	3	13M	88.9u	1.743m	1.083m	388.2m
4	2	19M	60.0u	1.353m	-	393.2m
5	2	20M	98.5u	935.5u	-	547.3m
6	3	11M	52.2u	1.069m	1.003m	478.4m
7	3	13M	80.2u	1.788m	1.309m	240.5m
8	3	7M	57.4u	1.216m	1.401m	290.6m
9	2	19M	54.3u	1.681m	-	87.84m
10	1	6M	59.8u	-	-	555.8m
11	3	12M	86.9u	1.054m	1.469m	241.5m
12	2	9M	78.3u	1.131m	-	138.2m
13	3	6M	97.5u	1.403m	1.593m	548.6m
14	2	9M	57.6u	1.395m	-	163.7m
15	2	16M	62.4u	1.256m	-	100.4m
16	2	19M	53.7u	1.201m	-	448.6m
17	2	14M	76.5u	1.075m	-	639.2m
18	2	13M	70.3u	1.793m	-	82.87m

Long Pulse Radar Test Signal						
Test Signal Name: LP_Signal_26						
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	11M	53.6u	1.843m	-	227.8m
2	3	10M	86.9u	1.587m	1.347m	143.7m
3	2	16M	94.6u	1.599m	-	167.5m
4	2	8M	98.3u	1.369m	-	647.1m
5	2	7M	78.0u	1.473m	-	347.0m
6	1	11M	51.8u	-	-	413.1m
7	3	6M	72.2u	1.382m	985.8u	374.2m
8	2	10M	66.5u	1.868m	-	336.8m
9	2	6M	74.6u	1.169m	-	290.7m
10	3	16M	81.1u	1.294m	1.281m	364.0m
11	3	14M	72.5u	1.056m	1.276m	599.1m
12	3	8M	80.7u	1.831m	1.338m	495.7m
13	3	16M	72.9u	1.286m	1.596m	14.39m
14	1	19M	67.3u	-	-	157.5m
15	2	13M	99.5u	1.045m	-	68.23m
16	1	6M	86.4u	-	-	392.8m
17	3	10M	91.2u	1.108m	1.477m	362.0m



Long Pulse Radar Test Signal  
 Test Signal Name: LP\_Signal\_27  
 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	18M	80.9u	1.320m	-	166.7m
2	3	16M	72.7u	1.036m	1.012m	684.1m
3	1	18M	94.3u	-	-	619.0m
4	2	9M	89.6u	1.499m	-	524.5m
5	3	15M	68.4u	1.598m	1.771m	254.0m
6	1	10M	57.2u	-	-	210.3m
7	1	6M	79.3u	-	-	388.9m
8	1	18M	88.2u	-	-	71.15m
9	1	16M	77.9u	-	-	411.5m
10	2	15M	87.7u	1.347m	-	390.7m
11	2	8M	51.3u	1.441m	-	525.2m
12	3	14M	85.8u	1.033m	1.567m	90.85m
13	2	6M	61.5u	1.834m	-	576.6m
14	3	20M	73.9u	1.650m	1.307m	253.2m
15	2	9M	74.7u	1.710m	-	46.61m
16	3	17M	79.8u	1.351m	1.531m	401.9m
17	3	14M	56.3u	1.733m	1.330m	371.0m

Long Pulse Radar Test Signal  
 Test Signal Name: LP\_Signal\_28  
 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	15M	69.3u	1.426m	-	1.042
2	1	16M	78.7u	-	-	181.9m
3	3	6M	50.1u	1.047m	1.716m	635.9m
4	2	7M	86.3u	1.433m	-	1.026
5	2	5M	58.0u	1.175m	-	313.3m
6	2	9M	57.4u	1.037m	-	548.5m
7	2	18M	71.9u	1.532m	-	606.4m
8	2	7M	62.3u	1.013m	-	940.2m
9	2	13M	65.8u	1.558m	-	13.74m
10	3	18M	52.9u	1.657m	1.590m	805.5m
11	1	13M	78.8u	-	-	1.034



Long Pulse Radar Test Signal  
 Test Signal Name: LP\_Signal\_29  
 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	65.6u	-	-	906.4m
2	1	10M	70.3u	-	-	1.267
3	3	17M	95.3u	1.241m	1.263m	554.0m
4	2	19M	97.4u	1.450m	-	214.4m
5	2	8M	90.0u	1.575m	-	262.1m
6	2	17M	53.6u	1.551m	-	1.291
7	2	15M	96.2u	1.068m	-	610.2m
8	1	18M	62.7u	-	-	137.0m
9	2	16M	52.8u	1.034m	-	278.9m

Long Pulse Radar Test Signal  
 Test Signal Name: LP\_Signal\_30  
 Number of Bursts in Trial: 15

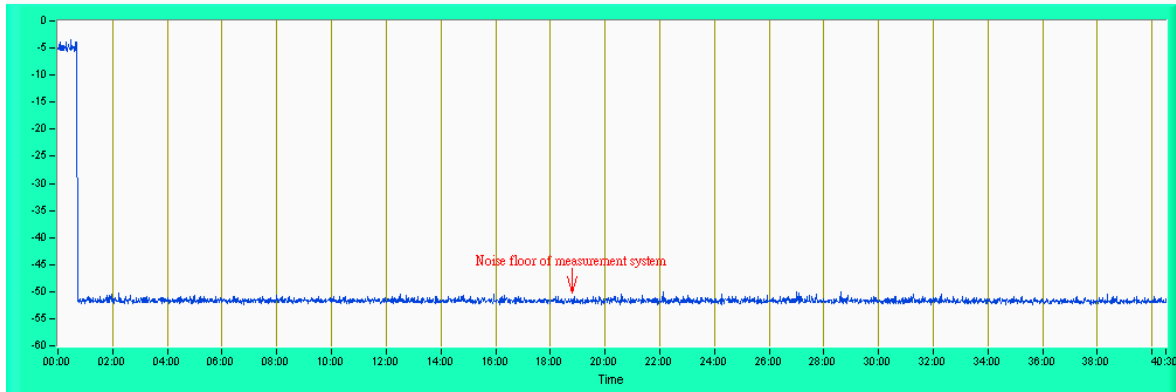
Burst	Pulses per Burst	Chrip (Hz)	Pulse Width (s)	Pulse 1 to 2 Spacing (s)	Pulse 2 to 3 Spacing (s)	Start Location (s)
1	3	13M	57.6u	958.4u	1.853m	492.0m
2	1	11M	59.3u	-	-	609.7m
3	3	17M	99.9u	1.395m	1.837m	6.460m
4	3	16M	59.1u	1.907m	1.116m	224.8m
5	2	15M	93.9u	1.795m	-	445.5m
6	1	14M	65.5u	-	-	113.7m
7	1	14M	53.9u	-	-	294.2m
8	3	17M	74.7u	1.752m	1.558m	7.046m
9	2	12M	73.5u	1.128m	-	780.7m
10	3	6M	90.3u	1.516m	1.015m	448.5m
11	1	18M	69.0u	-	-	344.4m
12	2	14M	94.8u	1.584m	-	448.8m
13	2	12M	74.1u	1.321m	-	587.5m
14	2	9M	57.7u	1.860m	-	268.2m
15	1	14M	62.3u	-	-	248.8m

### 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.

#### 802.11a

#### Non - Occupancy Period @ CH100 - 5500MHz



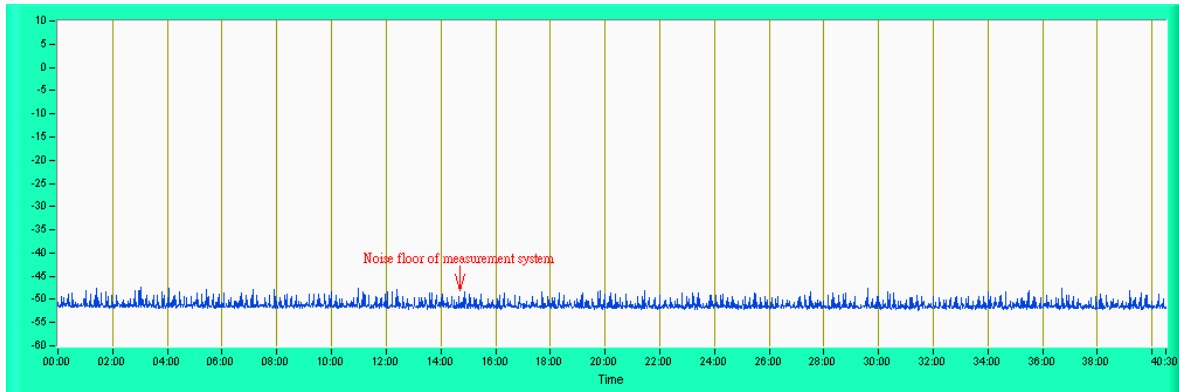


## Non-associated test

Master was off.

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

### Power-On Test @ CH100 - 5500MHz





## 7. TESTING LABORATORIES INFORMATION

We, ADT Corp., 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.

<b>USA</b>	FCC, UL, A2LA
<b>Germany</b>	TUV Rheinland
<b>Japan</b>	VCCI
<b>Norway</b>	NEMKO
<b>Canada</b>	INDUSTRY CANADA, CSA
<b>R.O.C.</b>	TAF, BSMI, NCC
<b>Netherlands</b>	Telefication
<b>Singapore</b>	GOST-ASIA(MOU)
<b>Russia</b>	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](http://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:**  
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**Hwa Ya EMC/RF/Safety Telecom Lab:**  
Tel: 886-3-3183232  
Fax: 886-3-3185050

**Web Site:** [www.adt.com.tw](http://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**

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