

FCC&IC TEST REPORT

FCC ID: SY4-B01014 On Behalf of Shanghai Huace Navigation Technology LTD. Handheld GNSS Data Collector Model No.: LT700H

Prepared for	:	Shanghai Huace Navigation Technology LTD.
Address	:	599 Gaojing Road, Building D, Shanghai 201702, China

Prepared By	:	Shenzhen Alpha Product Testing Co., Ltd.
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Report Number	:	A2102055-C01-R06
Date of Receipt	:	February 27, 2021
Date of Test	:	February 27-March 25, 2021
Date of Report	:	April 6, 2021
Version Number	:	V0

Description

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TEST REPORT DECLARATION

Applicant	:	Shanghai Huace Navigation Technology LTD.			
Address	:	599 Gaojing Road, Building D, Shanghai 201702, China			
Manufacturer	:	hanghai Huace Navigation Technology LTD.			
Address	:	599 Gaojing Road, Building D, Shanghai 201702, China			
EUT Description	:	Handheld GNSS Data Collector			
		(A) Model No. : LT700H			
		(B) Trademark : CHCNAV			

Measurement Standard Used:

FCC Part 15 Subpart E, FCC KDB 905462 D02, FCC KDB 905462 D03

The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC limits. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

Tested by (name + signature).....:

Lucas Pang Project Engineer

Simple Guan Project Manager

Lucas Pong

Approved by (name + signature).....:

Project Manager

Date of issue.....

April 6, 2021

Revision History

Revision	Issue Date	Revisions	Revised By
V0	April 6, 2021	Initial released Issue	Lucas Pang

1. GENERAL INFORMATION

1.1.Description of Device (EUT)

EUT Name	: Handheld GNSS Data Collector
Trademark	CHCNAV
Model No.	: LT700H
DIFF.	: /
Power supply	: DC 3.8V from battery, DC 5V for adapter
Radio Technology	: 5G WIFI
Operation Frequency	: 802.11a/n(HT20)/ac(HT20): 5180~5240MHz; 5260-5320MHz; 5500-5700MHz; 5745~5825MHz
	802.11n(HT40)/ac(HT40): 5190~5230MHz; 5260-5320MHz; 5510-5670MHz; 5755~5795MHz
	802.11ac(HT80): 5210MHz, 5290MHz, 5530MHz, 5775MHz
Channel separation	 20MHz for 802.11a/ 802.11ac20/ 802.11n(HT20) 40MHz for 802.11ac40/ 802.11n(HT40) 80MHz for 802.11ac80
Modulation technology:	: IEEE 802.11n: OFDM (64QAM, 16QAM,QPSK,BPSK) IEEE 802.11a: OFDM (64QAM, 16QAM,QPSK,BPSK) IEEE 802.11ac: OFDM (64QAM, 16QAM,QPSK,BPSK)
Antenna Type	: Internal Antenna, max gain 1.3dBi
Software version Hardware version	: V1.0 : V1.0
Intend use environment	: Residential, commercial and light industrial environment

1.2.Accessories of Device (EUT)

Accessories1	:	AC/DC ADAPTER
Manufacturer	:	Shenzhen Jiuzhou Power Technology Co., LTD
Model	:	JZB110-050200WU
Input	:	AC 100-240V, 50/60Hz, 0.35A
Output	:	DC 5V/2A Max., 10W

1.3.Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number	Certification or SDOC	
1	Router	HUAWEI	K562	N/A	N/A	
Note: master ping IP 192.168.1.3 for salve.						

1.4.Block Diagram of connection between EUT and simulators



2. EMC EQUIPMENT LIST

Equipment	Manufacture	Model No.	Serial No.	Last cal.	Cal Interval
9*6*6 anechoic chamber	CHENYU	9*6*6	N/A	2019.09.06	3Year
Spectrum analyzer	ROHDE&SCHW ARZ	FSV40-N	102137	2020.09.02	1 Year
Spectrum analyzer	Agilent	N9020A	MY499100060	2020.09.02	1Year
Receiver	ROHDE&SCHW ARZ	ESR	1316.3003K03-10208 2-Wa	2020.09.02	1 Year
Receiver	R&S	ESCI	101165	2020.09.02	1Year
Bilog Antenna	Schwarzbeck	VULB 9168	VULB9168-438	2020.04.12	2Year
Horn Antenna	SCHWARZBEC K	BBHA 9120 D	BBHA 9120 D(1201)	2020.04.12	2Year
Active Loop Antenna	SCHWARZBEC K	FMZB 1519B	00059	2019.09.07	2Year
Cable	Resenberger	N/A	No.1	2020.09.02	1 Year
Cable	Resenberger	N/A	No.2	2020.09.02	1 Year
Cable	Resenberger	N/A	No.3	2020.09.02	1 Year
Pre-amplifier	HP	HP8347A	2834A00455	2020.09.02	1 Year
Pre-amplifier	Agilent	8449B	3008A02664	2020.09.02	1Year
L.I.S.N.#1	Schwarzbeck	NSLK8126	8126466	2020.09.02	1 Year
L.I.S.N.#2	ROHDE&SCHW ARZ	ENV216	101043	2020.09.02	1 Year
20db Attenuator	ICPROBING	IATS1	82347	2020.09.02	1 Year
Horn Antenna	SCHWARZBEC K	BBHA9170	00946	2019.09.07	2 Year
Preamplifier	SKET	LNPA_1840-50	SK2018101801	2020.09.02	1 Year
Power Meter	Agilent	E9300A	MY41496625	2020.09.02	1 Year
Temp. &Humid. Chamber	Weihuang	WHTH-1000-40-8 80	100631	2020.09.02	1 Year
Switching Mode Power Supply	JUNKE	JK12010S	20140927-6	2020.09.02	1 Year

3. SUMMARY OF MEASUREMENT

3.1. Summary of test result

UNII	Bandwidth and Channel	Description	Measured	Limit	Result
		Channel Move Time	1.4 sec	10 sec	Pass
U-NII-2C 5250-5350MHz	80MHz (CH58) 5290MHz	Channel Closing Transmission time	<200ms +3.6 ms (aggregate)	200 ms + aggregate of 60 ms over remaining 10 s period	Pass
		Non-OccupancyNo transmissionPeriod and Clientor Beacons30 minutesBeacon Testoccurred30 minutes		Pass	
		Channel Move Time	1.4 sec	10 sec	Pass
U-NII-2C 80MHz 5470-5725MHz 5530MHz	Channel Closing Transmission time	<200ms +3.6 ms (aggregate)	200 ms + aggregate of 60 ms over remaining 10 s period	Pass	
		Non-OccupancyNo transmissionPeriod and Clientor BeaconsBeacon Testoccurred		30 minutes	Pass

Note: Since the product is client without radar detection function, only Channel Move Time, Channel

Closing Transmission Time and Non-Occupancy Period Test are required to be performed.

3.2. Equipment Type

Master Device

Client Device(No Ad-Hoc mode, without radar detection function and TPC)

3.2.Channel list

For IEEE 802.11 a					
Channel	Frequency (MHz)	Channel	Frequency (MHz)		
CH52	5260	CH56	5280		
CH60	5300	CH64	5320		
CH100	5500	CH104	5520		
CH108	5540	CH112	5560		
CH116	5580	CH120	5600		
CH124	5620	CH128	5640		
CH132	5660	CH136	5680		
CH140	5700				

For IEEE 802.11 n/HT20			
Channel	Frequency (MHz)	Channel	Frequency (MHz)
CH52	5260	CH56	5280
CH60	5300	CH64	5320
CH100	5500	CH104	5520
CH108	5540	CH112	5560
CH116	5580	CH120	5600
CH124	5620	CH128	5640
CH132	5660	CH136	5680
CH140	5700		

For IEEE 802.11 n/HT40			
Channel	Frequency (MHz)	Channel	Frequency (MHz)
CH102	5510	CH134	5670
CH110	5550	CH151	5755
CH118	5590	CH159	5795
CH126	5630		

	For IEEE 802.11ac20			
Channel	Frequency (MHz)	Channel	Frequency (MHz)	
CH52	5260	CH56	5280	
CH60	5300	CH64	5320	
CH100	5500	CH104	5520	
CH108	5540	CH112	5560	
CH116	5580	CH120	5600	
CH124	5620	CH128	5640	
CH132	5660	CH136	5680	
CH140	5700			

For IEEE 802.11ac40			
Channel Frequency (MHz) Channel Frequency (
CH102	5510	CH134	5670
CH110	5550	CH151	5755
CH118	5590	CH159	5795
CH126	5630		

For IEEE 802.11ac80				
Channel	ChannelFrequency (MHz)ChannelFrequency (MHz)			
CH58 5290 CH106 5530				

3.3.Test Conditions and channel

Temperature range	21-25°C
Humidity range	40-75%
Pressure range	86-106kPa

Channel List for 802.11ac(HT80)			
Band Frequency EUT Channel Test Frequency (MH)			
Band II	CH58	5290	
Band III	CH106	5530	

Note: (1) The measurements are performed at the lowest available channels.

3.4.Measurement Uncertainty (95% confidence levels, k=2)

Item	MU	Remark
Uncertainty for conducted RF Power	0.37dB	

4. **DFS PARAMETERS**

4.1. DFS Parameters

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

	Operational Mode		
Requirement	Master	Client Without Radar Detection	Client With Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

	Operational Mode		
Requirement	Master	Client Without Radar Detection	Client With Radar Detection
DFS Detection Threshold	Yes	Not required	Yes
Channel Closing Transmission Time	Yes	Yes	Yes
Channel Move Time	Yes	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required	Yes
Client Beacon Test	N/A	Yes	Yes

	Operatio	nal Mode
Additional requirements for devices with multiple bandwidth modes	Master or Client With Radar Detection	Client Without Bodon Detection
		Without Radar Detection
U-NII Detection Bandwidth and	All BW modes	
Statistical Performance Check	must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required
Note Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.		

Table 3: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection

Maximum Transmit Power	Value (see notes 1, 2, and 3)	
$EIRP \ge 200 milliwatt$	-64 dBm	
EIRP < 200 milliwatt and		
	-62 dBm	
power spectral density < 10 dBm/MHz		
EIRP < 200 milliwatt that do not meet the power		
-	-64 dBm	
spectral density requirement		
Note 1: This is the level at the input of the receiver assu	ming a 0 dBi receive antenna.	
	-	
Note 2: Throughout these test procedures an additional		
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. **Note 3:** EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

The radar Detection Threshold, lowest antenna gain is the parameter of Interference radar DFS detection threshold, The Interference Detection Threshold is the (-62dBm) + (0) [dBi] + 1 dB = -61 dBm.

Table 4: DFS	5 Response	Requirement	Values
--------------	------------	-------------	--------

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over
	remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the 99% 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 transmission.

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 *Channel* changes (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions. **Note 3:** During the *U-NII Detection Bandwidth* detection test, radar type 0 is used and for each frequency step the minimum percentage of detection is 90%. Measurements are performed with no data traffic.

Radar	Pulse	PRI	Number of Pulses	Minimum	Minimum
Туре	Width	(µsec)		Percentage of	Number
	(µsec)			Successful	of
				Detection	Trials
0	1	1428	18	See Note 1	See Note
					1
1	1	Test A: 15 unique PRI values	$\left(\frac{1}{2}\right)$.	60%	30
		randomly selected	(360)		
		from the list of 23	Roundup (19.10 ⁶)		
		PRI values in			
		Table 5a			
		Test B: 15 unique			
		PRI values			
		randomly selected			
		within the range			
		of 518-3066 µsec,			
		with a minimum			
		increment of 1			
		µsec, excluding			
		PRI values			
		selected in Test A			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
	Radar Types			80%	120
			used for the detection ba	ndwidth test, ch	annel move
time, and ch	nannel closing	time tests.			

Pulse Repetition Frequency Number	Pulse Repetition Frequency (Pulses Per Second)	Pulse Repetition Interval (Microseconds)
1	1930.5	518
2	1858.7	538
3	1792.1	558
4	1730.1	578
5	1672.2	598
6	1618.1	618
7	1567.4	638
8	1519.8	658
9	1474.9	678
10	1432.7	698
11	1392.8	718
12	1355	738
13	1319.3	758
14	1285.3	778
15	1253.1	798
16	1222.5	818
17	1193.3	838
18	1165.6	858
19	1139	878
20	1113.6	898
21	1089.3	918
22	1066.1	938
23	326.2	3066

Table 5a - Pulse Repetition Intervals Values for Test A

The aggregate is the average of the percentage of successful detections of Short Pulse Radar Types 1-4. For example, the following table indicates how to compute the aggregate of percentage of successful detections.

Radar Type	Number of Trials	Number of Successful Detections	Minimum Percentage of Successful Detection				
1	35	29	82.9%				
2	30	18	60%				
3	30	27	90%				
4	50	44	88%				
Aggregate (82.9% + 60% + 90% + 88%)/4 = 80.2%							

Long Pulse Radar Test Waveform

 Table 6 – Long Pulse Radar Test Waveform

Radar	Pulse	Chirp	PRI	Number	Number	Minimum	Minimum		
Type	Width	Width	(µsec)	of Pulses	of Bursts	Percentage of	Number of		
	(µsec)	(MHz)		per Burst		Successful	Trials		
	-			-		Detection			
5	50-100	5-20	1000-	1-3	8-20	80%	30		
			2000						
		Type Width (μsec)	Type Width Width (μsec) (MHz)	Type Width (μsec) Width (MHz) (μsec) 5 50-100 5-20 1000-	TypeWidth (μsec)Width (μsec)(μsec)of Pulses per Burst550-1005-201000-1-3	TypeWidth (μsec)Width (μsec)(μsec)of Pulses per Burstof Bursts550-1005-201000-1-38-20	TypeWidth (μsec)Width (μsec)(μsec)of Pulses per Burstof BurstsPercentage of Successful Detection550-1005-201000-1-38-2080%		

Figure 1 provides a graphical representation of the Long Pulse Radar Test Waveform.

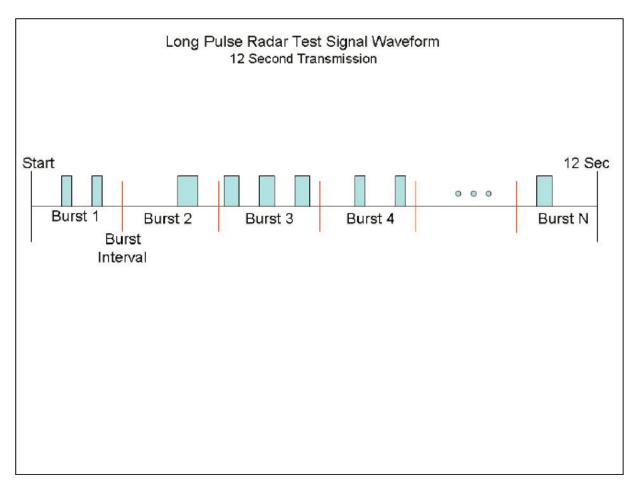


Table 7 – Frequency	Hopping	Radar Test	Waveform
	· · · ·		

-							
Radar	Pulse	PRI	Pulses	Hopping	Hopping	Minimum	Minimum
Type	Width	(µsec)	per	Rate	Sequence	Percentage of	Number of
	(µsec)		Hop	(kHz)	Length	Successful	Trials
			-1		(msec)	Detection	
6	1	333	9	0.333	300	70%	30

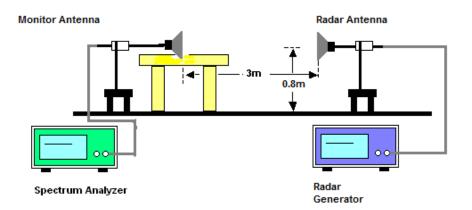
4.2. Calibration Setup and DFS Test Results

4.2.1.Calibration of Radar Waveform

4.2.1.1. Radar Waveform Calibration Procedure

The Interference **Radar Detection Threshold Level** is (-62dBm) + (0) [dBi]+ 1 dB= -61dBm that had been taken into account the output power range and antenna gain. The following equipment setup was used to calibrate the radiated Radar Waveform. A vector signal generator was utilized to establish the test signal level for radar type 0. During this process there were no transmissions by either the Master or Client Device. The spectrum analyzer was switched to the zero span (Time Domain) at the frequency of the Radar Waveform generator. Peak detection was used. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 3 MHz to measure the type 0 radar waveform. The spectrum analyzer had offset -8.26dB to compensate receiving horn antenna gain 11.80dBi and RF cable loss 3.54dB. The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was (-62dBm) + (0) [dBi]+ 1 dB= -61 dBm. Capture the spectrum analyzer plots on short pulse radar waveform.

4.2.1.2. Radiated Calibration Setup



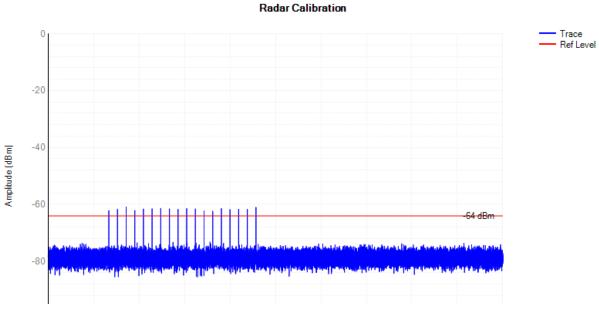
4.2.1.3. Calibration Deviation

There is no deviation with the original standard.

4.2.1.4. Radar Waveform Calibration Result

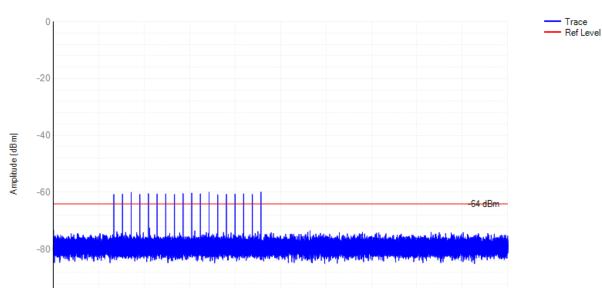
<80MHz / 5290 MHz> In-Service Monitoring

Radar / DFS detection threshold level and the burst of pulses on the Channel frequency



<80MHz / 5530 MHz> In-Service Monitoring

Radar / DFS detection threshold level and the burst of pulses on the Channel frequency



Note: All the test modes completed for test. The worst case of Ant 1; the test data of this mode was reported.

Radar Calibration

4.3. In-ServiceMonitoring: Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period

4.3.1.Limit of In-Service Monitoring

The EUT has In-Service Monitoring function to continuously monitor the radar signals, If radar is detected, it must leave the channel (Shutdown). The Channel Move Time to cease all transmissions on the current Channel upon detection of a Radar Waveform above the DFS Detection Threshold within 10 sec. The total duration of *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 *Channel* changes (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.

Non-Occupancy Period time is 30 minute during which a Channel will not be utilized after a Radar Waveform is detected on that Channel. The non-associated Client Beacon Test is during the 30 minutes observation time. The EUT should not make any transmissions in the DFS band after EUT power up.

4.3.2. Test Procedures

a. The radar pulse generator is setup to provide a pulse at frequency that the Master and Client are operating. A type 0 radar pulse with a 1us pulse width and a 1428 us PRI is used for the testing.

b. The vector signal generator is adjusted to provide the radar burst (18 pulses) at a level of approximately -62dBm at the antenna of the Master device.

c. A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.

d. A U-NII device operating as a Client Device will associate with the Master at Channel. The MPEG file "TestFile.mpg" specified by the FCC is streamed from the "file computer" through the Master to the Client Device and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.

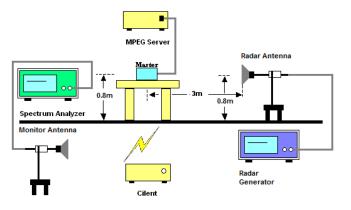
e. When a radar Burst with a level equal to the DFS Detection Threshold + 1dB is generated on the Operating Channel of the U-NII device. At time T0 the Radar Waveform generator sends a Burst of pulse of the radar waveform at Detection Threshold + 1dB.

f. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the EUT during the observation time (Channel Move Time). One 12 seconds plot is reported for the Short Pulse Radar Types 1. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.

- g. Measurement of the aggregate duration of the Channel Closing Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: **Dwell (0.4ms)= S (12000ms) / B (30000)**; where Dwell is the dwell time per spectrum analyzer sampling bin, S is the sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: **C (ms)= N X Dwell (0.4 ms)**; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- h. Measure the EUT for more than 30 minutes following the channel move time to verify that no transmissions or beacons occur on this Channel.

4.3.3. Test Setup

Radiated Test Setup Photo



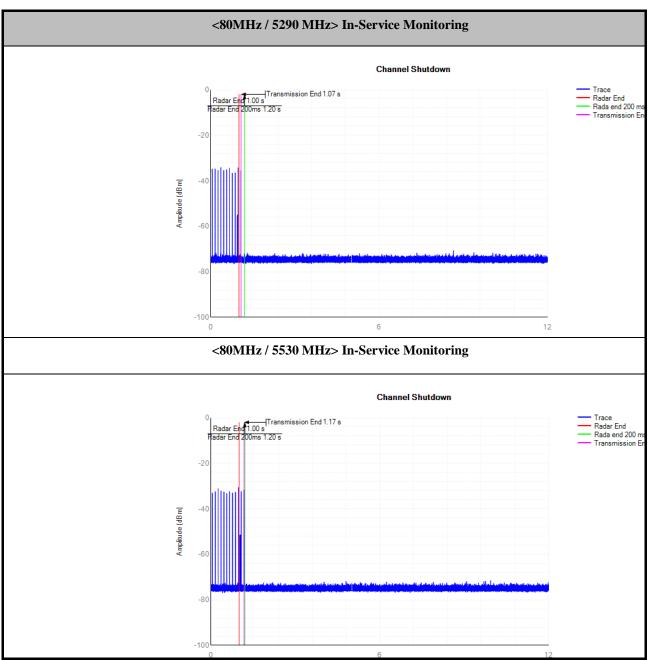
4.3.4. Test Deviation

There is no deviation with the original standard.

BW / Channel	Test Item	Test Result	Limit	Pass/Fail
	Channel Move Time	1.4s	< 10s	Pass
160MHz / 5570 MHz	Channel Closing Transmission Time	200ms + 3.6 ms	< 260ms	Pass
	Non-Occupancy Period	≥ 30	≥ 30 min	Pass

4.3.5. Result of Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period for Client Beacon Test

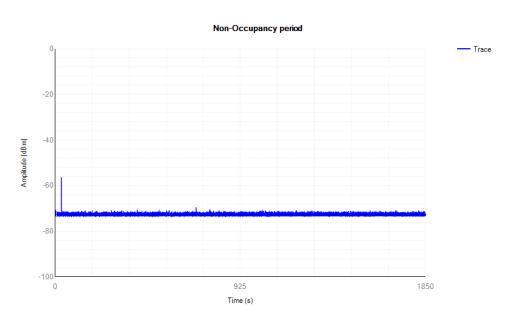
Note: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 seconds period. The aggregate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

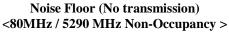


4.3.6. Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period for Client Beacon Test Plots

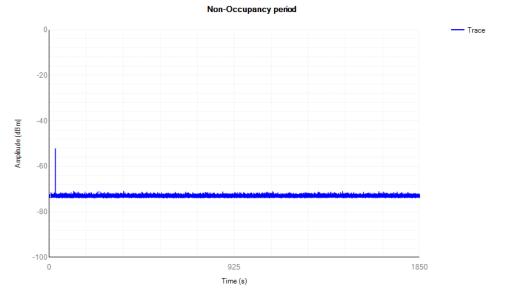
Note: All the test modes completed for test. The worst case of Ant 1; the test data of this mode was reported

4.3.7. Data Traffic and Noise Floor Plots









Note: All the test modes completed for test. The worst case of Ant 1; the test data of this mode was reported.

-----END OF THE REPORT------