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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART E REQUIREMENT

OF

Product Name: PeopleNet Connected Tablet

Brand Name: PeopleNet

Model No.: MS5

Model Difference: N/A

FCC ID: NKS-MS5N2

Report No.: E2/2015/10038-03

Issue Date: Aug. 22, 2018

FCC Rule Part: §15.407

PEOPLENET

Prepared for: 4400 Baker Road, Minnetonka, MN 55343,

USA

Prepared by: SGS Taiwan Ltd.

Electronics & Communication Laboratory

No.2, Keji 1st Rd., Guishan District,

Taoyuan City, Taiwan 333





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VERIFICATION OF COMPLIANCE

PEOPLENET Applicant:

4400 Baker Road, Minnetonka, MN 55343, USA

Product Name: PeopleNet Connected Tablet

PeopleNet Brand Name:

MS₅ Type No.:

N/A **Model Difference:**

NKS-MS5N2 FCC ID:

E2/2015/10038-03 File Number:

Date of test: Jan. 30, 2015 ~ Mar. 11, 2015

Date of EUT Received: Jan. 30, 2015

We hereby certify that:

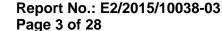
The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10: 2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.407.

The test results of this report relate only to the tested sample identified in this report.

Test By:	Vite, Pei	Date:	Aug. 22, 2018	
	Vito Pei / Engineer			
Prepared By:	Yun Tsou	Date:	Aug. 22, 2018	
Approved By:	Yuri Tsai / Clerk Jim Chang / Manager	Date:	Aug. 22, 2018	

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Revision History

Report Number	Revision	Description	Issue Date
E2/2016/10038-01	Rev.00	Initial creation of document	Jan. 04, 2017
E2/2015/10038-02	Rev.01	Change Tablet Docking Station	Jul. 30, 2018
E2/2015/10038-03	Rev.02	Change of NFC Chip	Aug. 22, 2018

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1. GENERAL INFORMATION

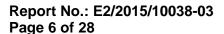
1.1. Product Description

General:

Product Name:	PeopleNet Connected Tablet			
Brand Name:	PeopleNet			
Model No.:	MS5	MS5		
Model Difference:	N/A			
Hardware Version:	N/A			
Software Version:	N/A			
Tablet Docking Station:	Model No.: MS-57603, Supplier: MSI			
Power Cable	P/N: L016	P/N: L016-0576, Supplier: ELECTRI-CORD MFG.CO.		
Power Supply:		7.4Vdc from LITHIUM-ION rechargeable battery or 12/24Vdc from DC Car battery		
. ээ. Эзрр.у.	Battery:	Battery: Model No.: MS5760 , Supplier: Getac		

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WLAN 5GHz

Wi-Fi	Frequency Range	Channels	Rated Power (Avg.)	Modulation Technology	
	5150~5250	4	13.86dBm (Avg.)		
11a	5250~5350	4	13.97dBm (Avg.)	OFDM	
IIa	5470~5725	5725 8 13.97dBm (Avg.)		OFDINI	
	5725-5850	5	13.97dBm (Avg.)		
	HT20 5150~5250	4	12.97dBm (Avg.)		
11n	HT20 5250~5350	4	12.83dBm (Avg.)	OFDM	
	HT20 5470~5725	8	12.97dBm (Avg.)	3. 2	
	HT20 5725-5850	5	12.96dBm (Avg.)		

Antenna Designation	PIFA Antenna: 5GHz Gain: 2.96dBi (5150MHz-5250MHz) 5GHz Gain: 2.96dBi (5250MHz-5350MHz) 5GHz Gain: 2.91dBi (5470MHz-5725MHz) 5GHz Gain: 2.11dBi (5725MHz-5850MHz)		
Modulation type	64QAM, 16QAM, QPSK, BPSK for OFDM		
Transition Rate:	802.11 a: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 65.0Mbps		



IEEE 802.11n Spec:

MCS Index Nss Mo			NBPSC	NG	Name I III		nna		Datarate(Mbps)			
	Modulation	R		SC NCBPS		PS NDBPS		800nsGI		400nsGI		
					20MHz	40MHz	20MHz	40MHz	20MHz	40MHz	20MHz	40MHz
0	1	BPSK	1/2	1	52	108	26	54	6.5	13.5	7.200	15
1	1	QPSK	1/2	2	104	216	52	108	13.0	27.0	14.400	30
2	1	QPSK	3/4	2	104	216	78	162	19.5	40.5	21.700	45
3	1	16-QAM	1/2	4	208	432	104	216	26.0	54.0	28.900	60
4	1	16-QAM	3/4	4	208	432	156	324	39.0	81.0	43.300	90
5	1	64-QAM	2/3	6	312	648	208	432	52.0	108.0	57.800	120
6	1	64-QAM	3/4	6	312	648	234	486	58.5	121.5	65.000	135
7	1	64-QAM	5/6	6	312	648	260	540	65.0	135.0	72.200	150

Symbol	Explanation
NSS	Number of spatial streams
R	Code rate
NBPSC	Number of coded bite per single carrier
NCBPS	Number of coded bite per symbol
NDBPS	Number of data bite per symbol
GI	Guard interval

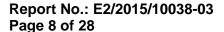
This report applies for client device in order to be compliant DFS regulation.

Note: The pertinent information with regards to the parameters of the detected Radar Waveforms is not available and accessible to the end user.

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SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§15.407(h)	TPC and DFS Measurement	Compliant
FCC KDB 905462 D02 &		
D03		

MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
TPC and DFS Measurement	+/- 123.36 Hz
Temperature	+/- 0.8 °C
Humidity	+/- 4.7 %
DC / AC Power Source	DC= +/- 1%, AC=+/- 0.2%

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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4. TPC and DFS MEASUREMENT

4.1. TPC: Standard Applicable

According to §15.407(h)(1), 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.

4.1.1. Result: N/A, The output power is less than 500mW.

4.2. DFS: Standard Applicable

According to §15.407(h)(2) and FCC KDB 905462 D02, Radar Detection Function of Dynamic Frequency Selection (DFS).

U-NII devices operating in the 5.25-5.35 GHz and 5.47-5.725 GHz bands shall employ a DFS radar detection. According to RSS 210 A9.3), Note: For the band 5600-5650 MHz, no operation is permitted.

Until further notice, devices subject to this annex shall not be capable of transmitting in the band 5600-5650 MHz. This restriction is for the protection of Environment Canada weather radars operating in this band. Devices operating in the bands 5250-5350 MHz, 5470-5600 MHz and 5650-5725 MHz band shall comply with the following:

(a) Devices shall employ a DFS radar detection mechanism to detect the presence of radar systems and to avoid co-channel operation with radar systems (see Note below). The minimum DFS radar signal detection threshold is -62 dBm for devices with a maximum e.i.r.p. less than 200 mW, and -64 dBm for devices with a maximum e.i.r.p. of 200 mW to 1 W. The detection threshold power is the received power, averaged over a 1-microsecond reference to a 0 dBi antenna. The DFS process shall provide a uniform spreading of the loading over all the available channels.

Note: Test procedures for demonstrating compliance with the DFS radar detection requirements set out in this section are being evaluated by Industry Canada. As an interim measure, the Department will, until further notice, accept utilization of the DFS test procedures published by the U.S. Federal Communications Commission (FCC)3 to demonstrate compliance with the requirements of this section.

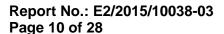
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- (b) Operational requirements: the requirement for channel availability check time applies in the master operational mode. The requirement for channel move time applies in both the master and slave operational modes.
 - (i) In-service monitoring: an LE-LAN device should be able to monitor the operating channel to check that a co-channel radar has not moved or started operation within range of the LE-LAN device.
 - During in-service monitoring, the LE-LAN radar detection function continuously searches for radar signals between normal LE-LAN transmissions.
- (ii) Channel availability check time: the device shall check if there is a radar system already operating on the channel before it initiates a transmission on a channel and when it moves to a channel. The device may start using the channel if no radar signal with a power level greater than the interference threshold value specified in A9.3 (a) above is detected within 60 seconds.
- (iii) Channel move time: after a radar's signal is detected, the device shall cease all transmissions on the operating channel within 10 seconds. Transmission during this period shall consist of normal traffic for a maximum of 200 ms after detection of the radar signal. Intermittent management and control signals may also be sent during the remaining time to facilitate vacating the operating channel.
- (iv)Channel closing time: the maximum channel closing time is 260 ms. (v) Non-occupancy period: a channel that has been flagged as containing a radar signal, either by a channel availability check or in-service monitoring, is subject to a 30-minute non-occupancy period where the channel cannot be used by the LE-LAN device. The non-occupancy period starts from the time that the radar signal is detected.

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4.2.1. Limit

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	Yes	Yes		
DFS Detection Thresh- old	Yes	Not required	Yes		
Channel Availability Check Time	Yes	Not required	Not required		
Uniform Spreading	Yes	Not required	Not required		

Table 2: Applicability of DFS requirements during normal operation

	Operational Mode				
Requirement	Master Device or Client with Radar Detection	Client Without Radar Detection			
DFS Detection Threshold	Yes	Not required			
Cannel Closing Transmission time	Yes	Yes			
Channel Move time	Yes	Yes			
U-NII Detection Bandwidth	Yes	Not required			

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Additional requirements for devices with multiple bandwidth mode	Master Device or Client with Radar Detection	Client Without Radar De- tection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Trans- mission 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.

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Table 3: Interference Threshold values, Master or Client incorporating In-Service Monitoring

Maximum Transmit Power	Value
	(see note)
≥ 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 4: 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 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 1 is used and for each frequency step the minimum percentage of detection is 90%. Measurements are performed with no data traffic.

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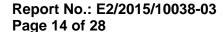




Table 5: Radar Test Waveforms Short Pulse Radar

Radar	Pulse	PRI	Number of Pulses	Minimum	Minimum
Type	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 randomly selected from the list of 23 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	Roundup $ \left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu \text{sec}}} \right) \right\} $	60%	30
2	1-5	selected in Test A 150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
			12-10		
	(Radar Types		sed for the detection ba	80%	120

Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.

Long Pulse Radar

Radar	Pulse	Chirp	PRI	Number of	Number of	Minimum	Minimum
Туре	Width	Width	(µsec)	Pulses per	Bursts	Percentage of	Trials
	(µsec)	(MHz)		Burst		Successful	
						Detection	
5	50-100	5-20	1000-	1-3	8-20	80%	30
			2000				

Frequency Hopping Radar

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

The applicant of this given application confirms that information regarding the parameters of the detected Radar Waveforms is not available to the end user.

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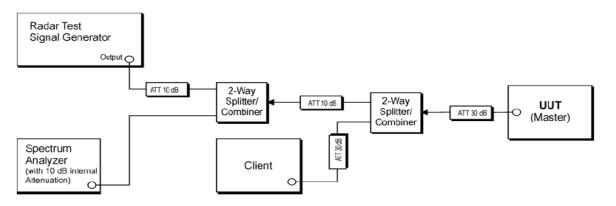
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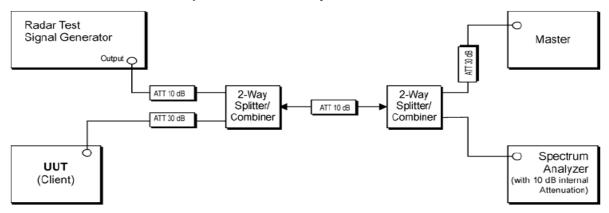


4.2.2. Test Setup

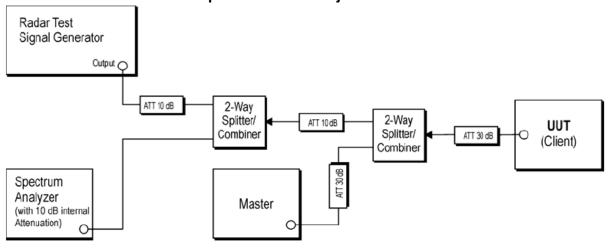
Setup for Master with injection at the Master



Setup for Client with injection at the Master



Setup for Client with injection at the Client



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4.2.3. Test Equipment Used:

Conducted Emission Test Site								
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.			
TYPE		NUMBER	NUMBER	CAL.				
Spectrum Analyzer	Agilent	N9010A	MY53400256	10/15/2014	10/14/2015			
Signal Generator	R&S	SMU200A	105303	12/22/2014	12/21/2015			
DC Block	PASTERNACK	PE8210	RF29	12/19/2014	12/18/2015			
Attenuator	WOKEN	218FS-10	RF23	12/19/2014	12/18/2015			
Splitter	Marvelous	MVE8576	RF37	12/19/2014	12/18/2015			
Splitter	Marvelous	MVE8576	RF38	12/19/2014	12/18/2015			
Attenuator	WOKEN	6SR1211	RF41	12/19/2014	12/18/2015			

4.2.4. Description of EUT:

EUT operates over the 5250-5350MHz and 5470-5725MHz ranges and EUT is a slave device (client equipment) w/o radar detection and DFS capability. EUT has a gain of 2.70dBi in the 5GHz Band.

EUT has no TPC mechanism implemented with no adjustment of lowest, and highest power, but the level of power emission stays at fixed level.

The EUT utilizes the 802.11a architecture, with a nominal channel bandwidth of 20MHz WLAN traffic is generated by streaming the mpeg file from the master to slave in full monitor video mode using the media player.

The rated output power of the master unit is >23dBm(EIRP).therefore the required interference threshold level is -62dBm.after correction for antenna gain and procedural adjustments, the required conducted threshold at the antenna port is -62dBm, and the master device as employed for the applicable DFS test is CISCO router whose FCC ID= LDK102061

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While calibrate the path on antenna port of DFS test equipment (master), measurements equipments (spectrum) is ensured to be 50 Ohms, and therefore verification on antenna gain measurement can be ignored.

Conducted test was performed with appropriate adjustment, and calibration to ensure power from DFS simulator injects to antenna port of DFS test equipment (DFS) is -62dBm

Message or files that is used for communication between Master and Client:

IP based system:

For the required channel loading, the full motion, 30 frames per second MPEG video file from http://ntiacsd.ntia.doc.gov/dfs/ was streamed from a network on a test bench (server of the storage to download the mandatory format of Video file), via the DFS Master device, to the UE (mobile phone).

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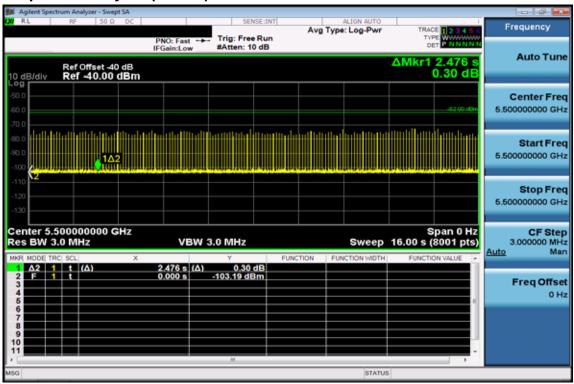
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4.2.5. Test results

The time of power-on cycle (2.476s):



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The time of channel availability check (60s)



Where T1~T2 indicates the time to power up, where T2~T3 represents the channel availability time.

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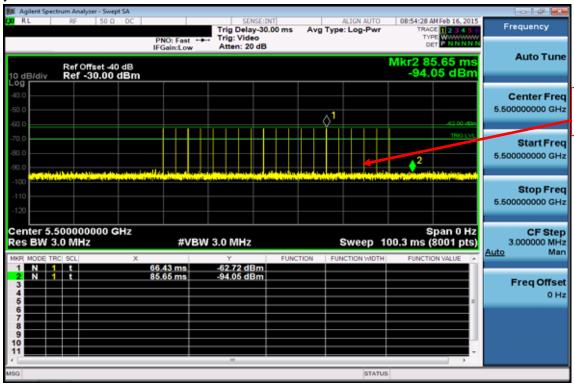
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Noise Floor



Calibration plots for each of the required radar waveforms Radar type 1



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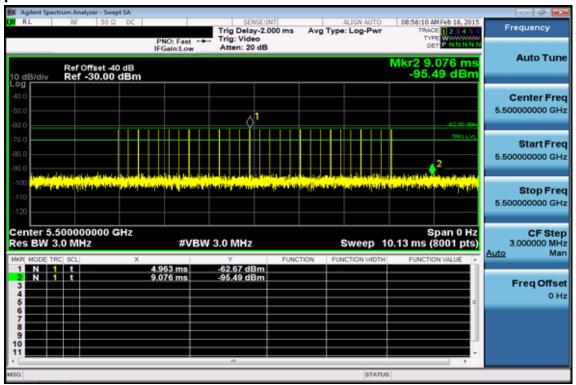
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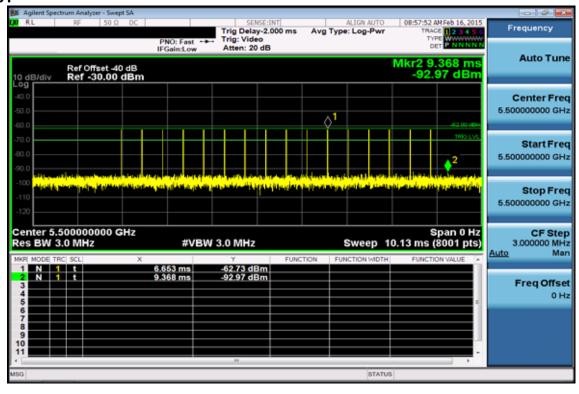
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Radar type 2



Radar type 3

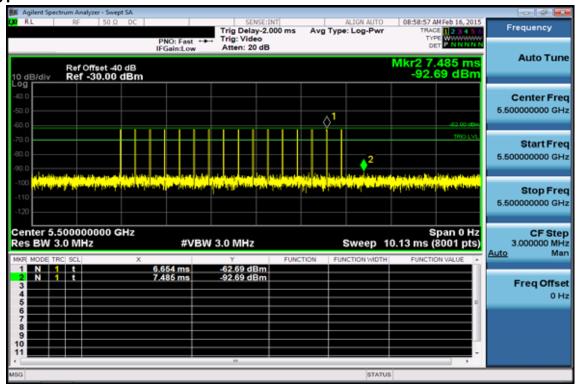


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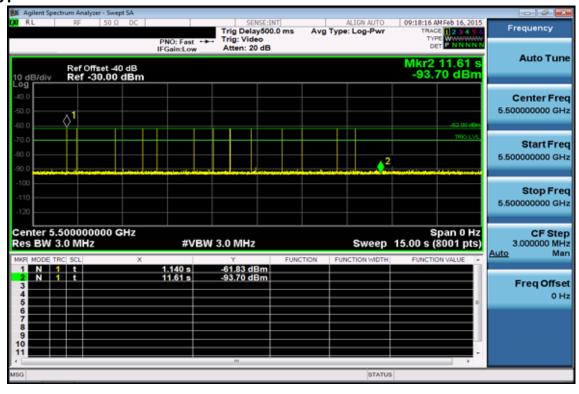
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Radar type 4



Radar type 5

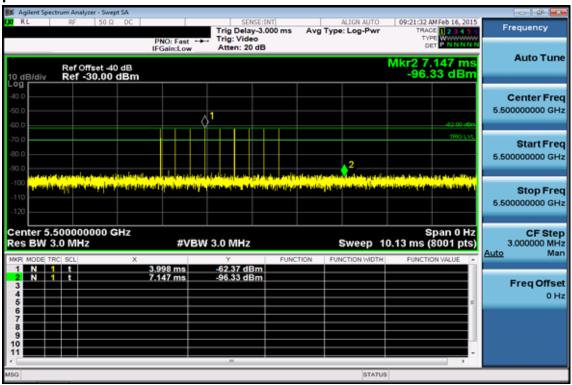


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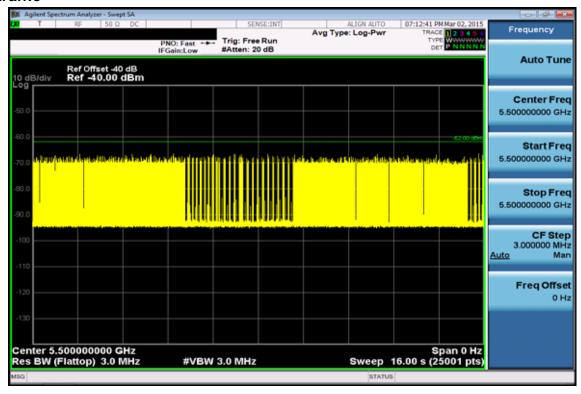
Radar type 6



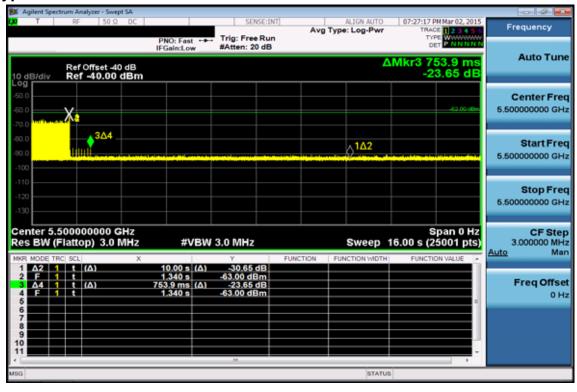
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WLAN traffic

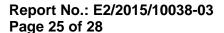


Radar Type 1 Channel Move Time



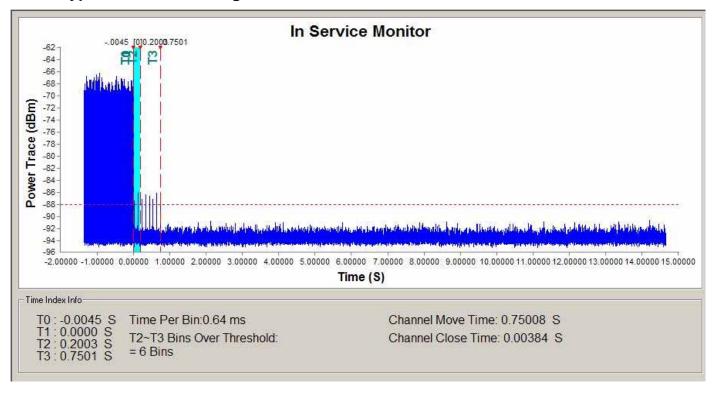
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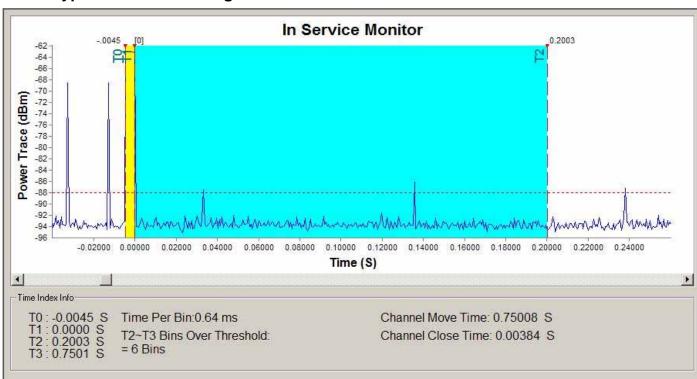




Radar Type 1 Channel Closing Transmission Time - 1



Radar Type 1 Channel Closing Transmission Time - 2



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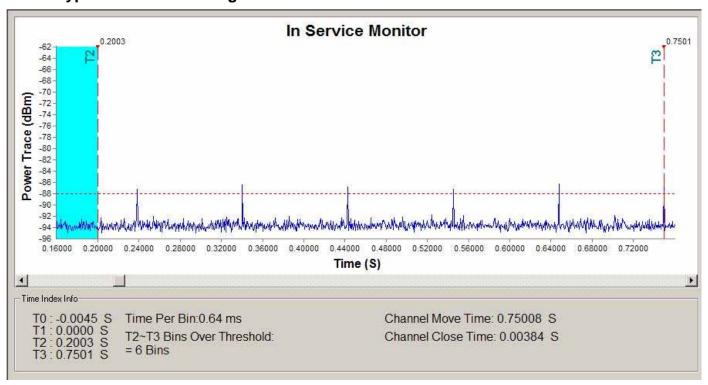
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台灣檢驗科技股份有限公司



Radar Type 1 Channel Closing Transmission Time - 3



Verdict:

Time per bin: 2.0ms, Total Bins after 200ms: 6Bins, Total time intermittent control remains: 12.0ms.

12.0ms <60ms in the period of 10s.

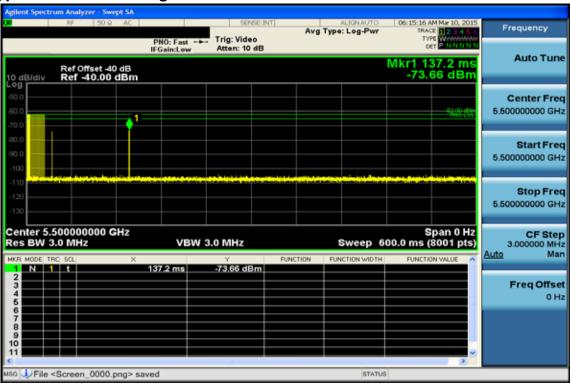
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Radar Type 1 Channel Closing Transmission Time - 4



Verdict:

Note: narrowing the sweep time as the good engineering process for the verification of transmission closing in 200ms

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Non-occupancy Period (without radar detection)



Verdict:

To verify whether channel is unavailable to be operated in 30 minutes.

1.8ks = 1800s = 1800 s/min /60 = 30minute

~ End of Report ~

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