

DFS PORTION of FCC 47 CFR PART 15 SUBPART E DFS PORTION of INDUSTRY CANADA RSS-247 ISSUE 2

TEST REPORT

FOR

GSM/WCDMA/LTE Phablet with BT/BLE,DTS/UNII a/b/g/n/ac, NFC and ANT+

MODEL NUMBER: SM-A715W

FCC ID: A3LSMA715W IC: 649E-SMA715W

REPORT NUMBER: 13171837-E6V1

ISSUE DATE: February 24, 2020

Prepared for SAMSUNG ELECTRONICS CO., LTD. 129 SAMSUNG-RO, EONGTONG-GU, SUWON-SI, GYEONGGI-DO, 16677 KOREA

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Revision History

Rev.	lssue Date	Revisions	Revised By
V1	2/24/20	Initial Issue	

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD. 129 SAMSUNG-RO, EONGTONG-GU, SUWON-SI, GYEONGGI-DO, 16677 KOREA			
EUT DESCRIPTION: GSM/WCDMA/LTE Phablet with BT/BLE,DTS/UNII a/b/g/n/ NFC and ANT+			
MODEL:	SM-A715W		
SERIAL NUMBER: R38N108PFHB			
DATE TESTED:	DATE TESTED: FEBRUARY 6, 2020		
	APPLICABLE STANDARDS		
ST	TEST RESULTS		
DFS Portion of C	DFS Portion of CFR 47 Part 15 Subpart E		
DFS Portion of INDUST	DFS Portion of INDUSTRY CANADA RSS-247 Issue 2		

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of the U.S. government.

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with the DFS portion of FCC CFR 47 Part 2, FCC CFR 47 Part 15, FCC 06-96, FCC KDB 789033, KDB 905462 D02 and D03 and RSS-247 Issue 2.

3. REFERENCE DOCUMENTS

Measurements of transmitter parameters as referenced in this report and all other manufacturer's declarations relevant to the RF test requirements are documented in UL Verification Services report number 13211873-E5V1.

4. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 and 47266 Benicia Street, and 47658 Kato Road, Fremont, California, USA. Specific facilities are also identified in the test results sections.

The above test sites and facilities are covered under FCC Test Firm Registration # 208313. Chambers above are covered under Industry Canada company address and respective code: 2324A.

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0.

5. CALIBRATION AND UNCERTAINTY

5.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

5.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB) 36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty level has been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY	
Time	± 0.02 %	

The Uncertainty figure is valid to a confidence level of 95%.

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6. DYNAMIC FREQUENCY SELECTION

6.1. OVERVIEW

6.1.1. LIMITS

INDUSTRY CANADA

IC RSS-247 is closely harmonized with FCC Part 15 DFS rules. The deviations are as follows:

RSS-247 Issue 2

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.

FCC

§15.407 (h), FCC KDB 905462 D02 "COMPLIANCE MEASUREMENT PROCEDURES FOR UNLICENSED-NATIONAL INFORMATION INFRASTRUCTURE DEVICES OPERATING IN THE 5250-5350 MHz AND 5470-5725 MHz BANDS INCORPORATING DYNAMIC FREQUENCY SELECTION" and KDB 905462 D03 "U-NII CLIENT DEVICES WITHOUT RADAR DETECTION CAPABILITY".

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Table 1: Applicability of DFS requirements prior to use of a channel

Requirement	Operational Mode			
	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

Requirement	Operationa	Operational Mode			
	Master	Client (without DFS)	Client (with DFS)		
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		

Additional requirements for	Master Device or Client with	Client				
devices with multiple bandwidth	Radar DFS	(without DFS)				
modes						
U-NII Detection Bandwidth and	All BW modes must be	Not required				
Statistical Performance Check	tested					
Channel Move Time and Channel	Test using widest BW mode	Test using the				
Closing Transmission Time	available	widest BW mode				
		available for the link				
All other tests	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 all 20						
MHz channel blocks and a null freque	ncy between the bonded 20 MHz	channel blocks.				

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

Maximum Transmit Power	Value			
	(see notes)			
E.I.R.P. ≥ 200 mill watt	-64 dBm			
E.I.R.P. < 200 mill watt and	-62 dBm			
power spectral density < 10 dBm/MHz				
E.I.R.P. < 200 mill watt that do not meet power spectral	-64 dBm			
density requirement				
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.				
Note 3: E.I.R.P. is based on the highest antenna gain. For MIMO devices refer to KDB				

publication 662911 D01.

Parameter	Value
Non-occupancy period	30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds (See Note 1)
Channel Closing Transmission Time	200 milliseconds + approx. 60 milliseconds over remaining 10 second period. (See Notes 1 and 2)
U-NII Detection Bandwidth	Minimum 100% of the U- NII 99% transmission power bandwidth. (See Note 3)

Note 1: *Channel Move Time* and the *Channel Closing Transmission Time* should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

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 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

Table 5 – Short Pulse Radar Test Waveforms

Radar	Pulse	PRI	Pulses	Minimum	Minimum			
Туре	Width (usec)			Percentage	Trials			
	(usec)			of Successful				
				Detection				
0	1	1428	18	See Note 1	See Note			
					1			
1	1	Test A: 15 unique		60%	30			
		PRI values randomly						
		selected from the list	Roundup:					
		of 23 PRI values in	{(1/360) x (19 x 10 ⁶ PRI _{usec})}					
		table 5a						
		Test B: 15 unique						
		PRI values randomly selected within the						
		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			
		Aggregate (Radar T	ypes 1-4)	80%	120			
	Note 1: Short Pulse Radar Type 0 should be used for the <i>Detection Bandwidth</i> test, <i>Channel</i>							
Move 7	Move Time, and Channel Closing Time tests.							

Table 6 – Long Pulse Radar Test Signal

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

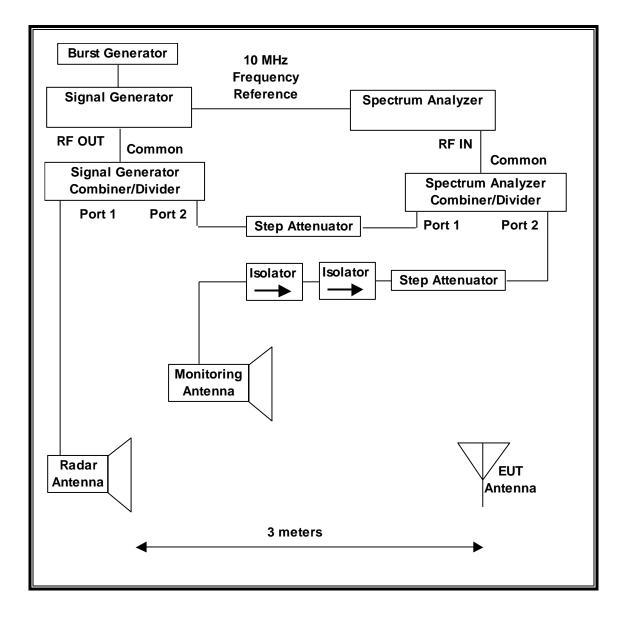
Table 7 – Frequency Hopping Radar Test Signal

		- <u> </u>	ing name				
Radar	Pulse	PRI	Pulses	Hopping	Hopping	Minimum	Minimum
Waveform	Width	(µsec)	per	Rate	Sequence Percentag		Trials
Туре	(µsec)		Нор	(kHz)	Length	Successful	
					(msec)	Detection	
6	1	333	9	0.333	300	70%	30

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6.1.2. TEST AND MEASUREMENT SYSTEM

RADIATED METHOD SYSTEM BLOCK DIAGRAM



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SYSTEM OVERVIEW

The short pulse and long pulse signal generating system utilizes the NTIA software. The Vector Signal Generator has been validated by the NTIA. The hopping signal generating system utilizes the CCS simulated hopping method and system, which has been validated by the DoD, FCC and NTIA. The software selects waveform parameters from within the bounds of the signal type on a random basis using uniform distribution.

The short pulse types 1, 2, 3 and 4, and the long pulse type 5 parameters are randomized at run-time.

The hopping type 6 pulse parameters are fixed while the hopping sequence is based on the August 2005 NTIA Hopping Frequency List. The initial starting point randomized at run-time and each subsequent starting point is incremented by 475. Each frequency in the 100-length segment is compared to the boundaries of the EUT Detection Bandwidth and the software creates a hopping burst pattern in accordance with Section 7.4.1.3 Method #2 Simulated Frequency Hopping Radar Waveform Generating Subsystem of KDB 905462 D02. The frequency of the signal generator is incremented in 1 MHz steps from F_L to F_H for each successive trial. This incremental sequence is repeated as required to generate a minimum of 30 total trials and to maintain a uniform frequency distribution over the entire Detection Bandwidth.

The signal monitoring equipment consists of a spectrum analyzer. The aggregate ON time is calculated by multiplying the number of bins above a threshold during a particular observation period by the dwell time per bin, with the analyzer set to peak detection and max hold.

SYSTEM CALIBRATION

A 50-ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected to a horn antenna via a coaxial cable, with the reference level offset set to (horn antenna gain – coaxial cable loss). The signal generator is set to CW mode. The amplitude of the signal generator is adjusted to yield a level of –64 dBm as measured on the spectrum analyzer.

Without changing any of the instrument settings, the spectrum analyzer is reconnected to the Common port of the Spectrum Analyzer Combiner/Divider. The Reference Level Offset of the spectrum analyzer is adjusted so that the displayed amplitude of the signal is –64 dBm.

The spectrum analyzer displays the level of the signal generator as received at the antenna ports of the Master Device. The interference detection threshold may be varied from the calibrated value of –64 dBm and the spectrum analyzer will still indicate the level as received by the Master Device.

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ADJUSTMENT OF DISPLAYED TRAFFIC LEVEL

A link is established between the Master and Slave and the distance between the units is adjusted as needed to provide a suitable received level at the Master and Slave devices. The program iPerf 2.0.5. is used to generate WLAN traffic from the Master device to the Slave devic. Traffic that meets or exceed the minimum loading requirement is streamed from the Master device to the Slave Device. The monitoring antenna is adjusted so that the WLAN traffic level, as displayed on the spectrum analyzer, is at lower amplitude than the radar detection threshold.

TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

TEST EQUIPMENT LIST						
Description	Manufacturer	Model	ID No.	Cal Due		
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight	N9030A	T459	01/27/21		
Signal Generator, MXG X-Series RF Vector	Agilent	N5182B	T1633	01/24/21		
Arbitrary Waveform Generator	Agilent / HP	33220A	T190	01/23/21		

6.1.3. TEST AND MEASUREMENT SOFTWARE

The following test and measurement software was utilized for the tests documented in this report:

TEST SOFTWARE LIST							
Name Version Test / Function							
Aggregate Time-PXA	3.1	Channel Loading and Aggregate Closing Time					
PXA Read	3.1	Signal Generator Screen Capture					
SGXProject.exe	1.7	Radar Waveform Generation and Download					

6.1.4. TEST ROOM ENVIRONMENT

The test room temperature and humidity shall be maintained within normal temperature of 15~35 °C and normal humidity 20~75% (relative humidity).

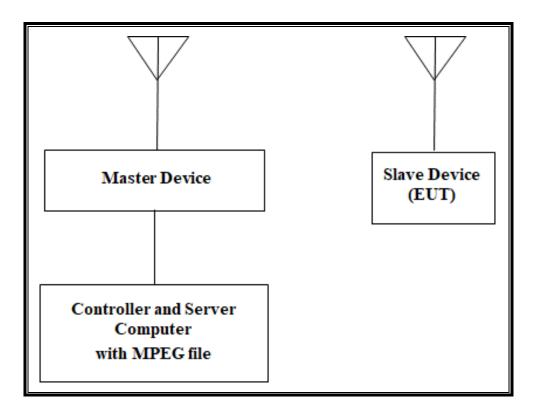
ENVIRONMENT CONDITION

Parameter	Value
Temperature	23.2 °C
Humidity	36 %

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6.1.5. SETUP OF EUT

RADIATED METHOD EUT TEST SETUP



SUPPORT EQUIPMENT

The following support equipment was utilized for the tests documented in this report:

PERIPHERAL SUPPORT EQUIPMENT LIST								
Description	Manufacturer	Model	Serial Number	FCC ID				
802.11ac Dual Band Wireless Access Point	Cisco	AIR-CAP3702E-A-K9	FTX181570A6	LDK102087				
P.O.E. Injector	Phihong	POE30U-560(G)	PHI170102N2	DoC				
Notebook PC (Controller/Server)	Lenovo	Type 4236-B92	PB-HEX04 12/05	DoC				
AC Adapter (Controller/Server PC)	Lenovo	42T4418	11S42T4418Z1ZGWG08R90M	DoC				

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6.1.6. DESCRIPTION OF EUT

For FCC the EUT operates over the 5250-5350 MHz and 5470-5725 MHz ranges.

For IC the EUT operates over the 5250-5350 MHz and 5470-5725 MHz ranges, excluding the 5600-5650 MHz range.

The EUT is a Slave Device without Radar Detection.

The highest power level within these bands is 8.29 dBm EIRP in the 5250-5350 MHz band and 8.33 dBm EIRP in the 5470-5725 MHz band.

The only antenna assembly utilized with the EUT has a gain of -7.68 dBi in the 5250-5350 MHz band and 7.63 dBi in the 5470-5725 MHz band.

The calibrated radiated DFS Detection Threshold level is set to –64 dBm. The tested level is lower than the required level hence it provides a margin to the limit.

The EUT uses one transmitter/receiver chain connected to an antenna to perform radiated tests.

The Slave device associated with the EUT during these tests does not have radar detection capability.

WLAN traffic that meets or exceeds the minimum required loading was generated by transferring a data stream from the Master Device to the Slave Device using iPerf version 2.0.5 software package.

TPC is not required since the maximum EIRP is less than 500 mW (27 dBm).

The EUT utilizes the 802.11ac architecture. Three nominal channel bandwidths are implemented: 20 MHz, 40 MHz and 80 MHz.

The software installed in the EUT is Android 10, Kernel Version 4.14.117-17901828-eng, Build a71cs-eng 10 QP1A.190711.020 A715WVLE0ATA8 test-keys.

The software installed in the access point is AP3G2-K9W7-M Version 15.3(3)JAB.

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UNIFORM CHANNEL SPREADING

This is requirement not applicable to Slave Devices.

OVERVIEW OF MASTER DEVICE WITH RESPECT TO §15.407 (h) REQUIREMENTS

The Master Device is a Cisco Access Point, FCC ID: LDK102087. The minimum antenna gain for the Master Device is 6 dBi.

The rated output power of the Master unit is > 23dBm (EIRP). Therefore the required interference threshold level is -64 dBm. After correction for procedural adjustments, the required radiated threshold at the antenna port is -64 + 1 = -63 dBm.

The calibrated radiated DFS Detection Threshold level is set to –64 dBm. The tested level is lower than the required level hence it provides a margin to the limit.

The software installed in the access point is AP3G2-K9W7-M Version 15.3(3)JAB.

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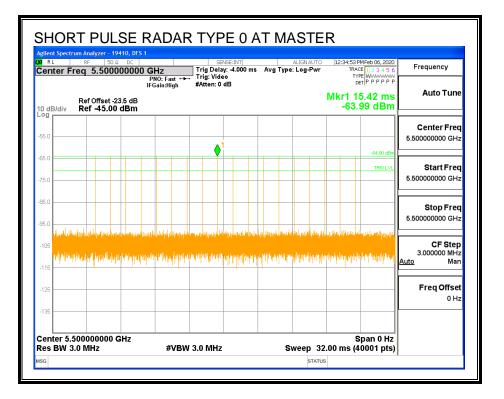
6.2. **RESULTS FOR 20 MHz BANDWIDTH**

6.2.1. TEST CHANNEL

All tests were performed at a channel center frequency of 5500 MHz.

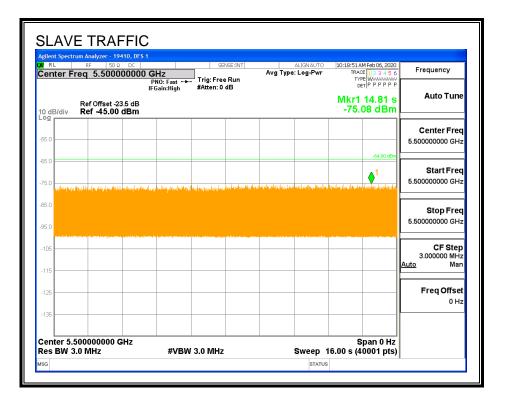
6.2.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



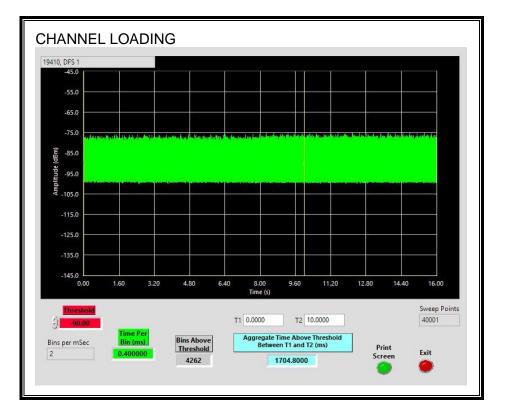
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TRAFFIC



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CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 17.04%

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6.2.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

6.2.4. MOVE AND CLOSING TIME

REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time = (Number of analyzer bins showing transmission) * (dwell time per bin)

The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

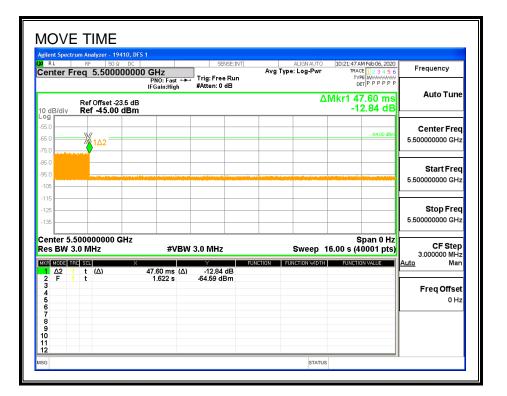
RESULTS

Channel Move Time	Limit
(sec)	(sec)
0.047	10

Aggregate Channel Closing Transmission Time	Limit
(msec)	(msec)
0	60

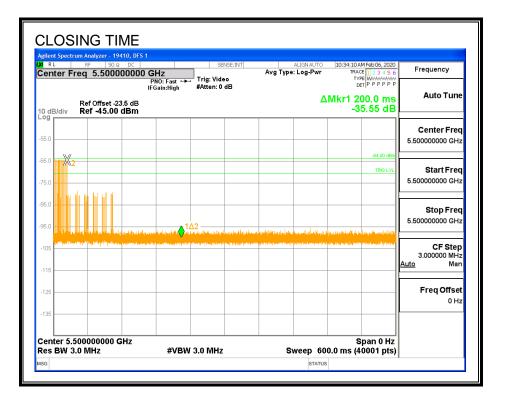
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MOVE TIME



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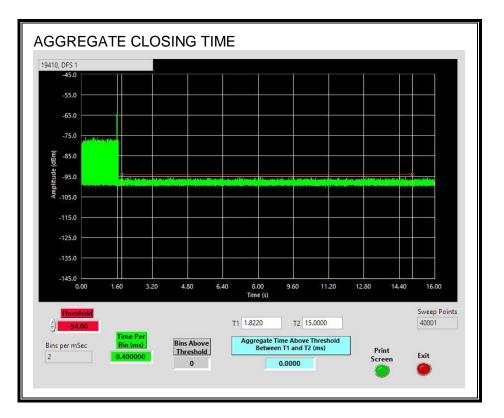
CHANNEL CLOSING TIME



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AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



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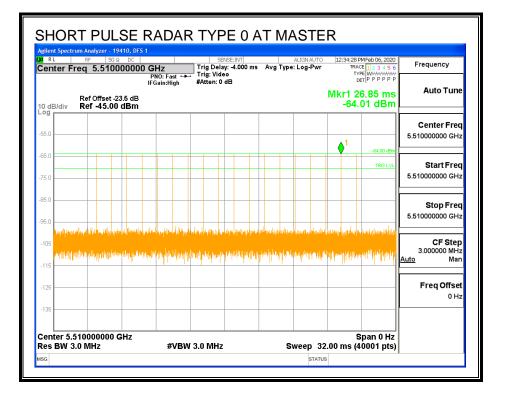
6.3. **RESULTS FOR 40 MHz BANDWIDTH**

6.3.1. TEST CHANNEL

All tests were performed at a channel center frequency of 5510 MHz.

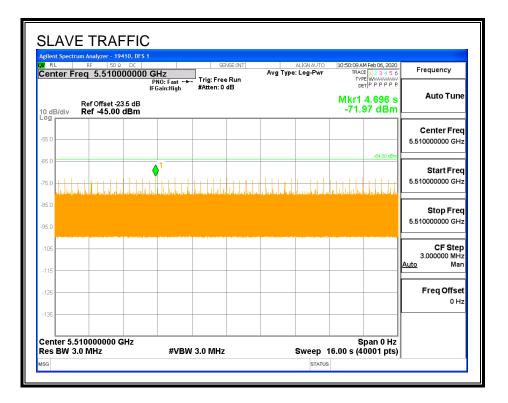
6.3.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



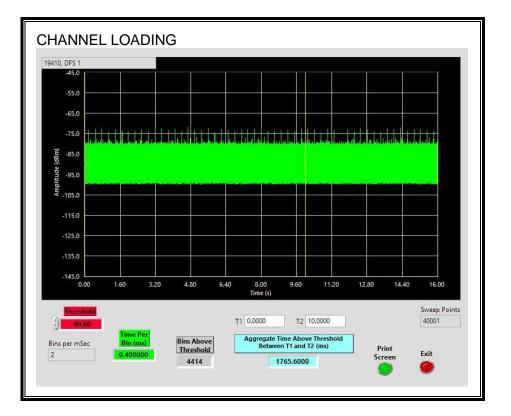
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TRAFFIC



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CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 17.65%

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6.3.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

6.3.4. MOVE AND CLOSING TIME

REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time = (Number of analyzer bins showing transmission) * (dwell time per bin)

The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

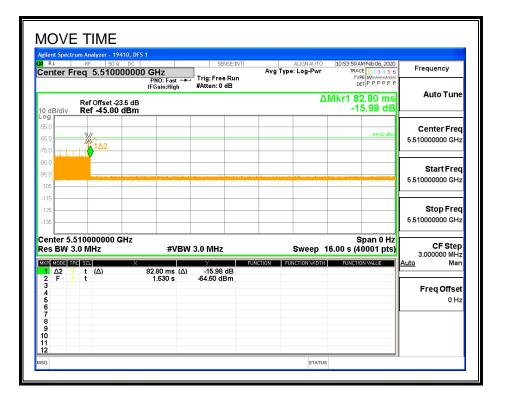
RESULTS

Channel Move Time	Limit
(sec)	(sec)
0.082	10

Aggregate Channel Closing Transmission Time	Limit
(msec)	(msec)
0	60

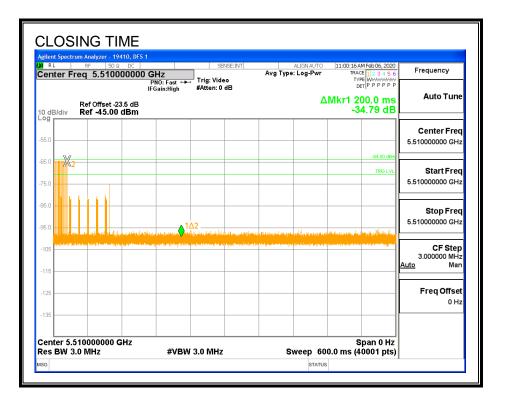
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MOVE TIME



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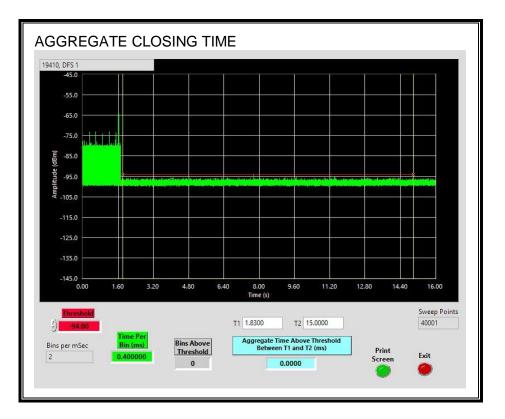
CHANNEL CLOSING TIME



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AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



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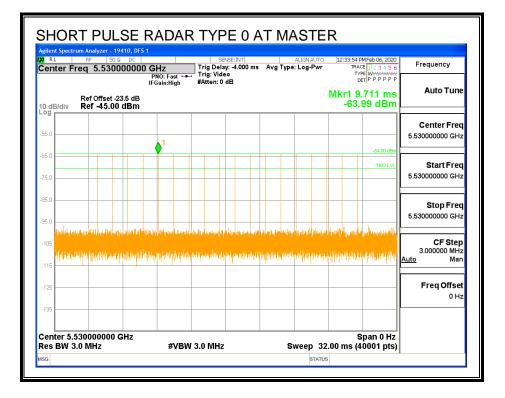
6.4. **RESULTS FOR 80 MHz BANDWIDTH**

6.4.1. TEST CHANNEL

All tests were performed at a channel center frequency of 5530 MHz.

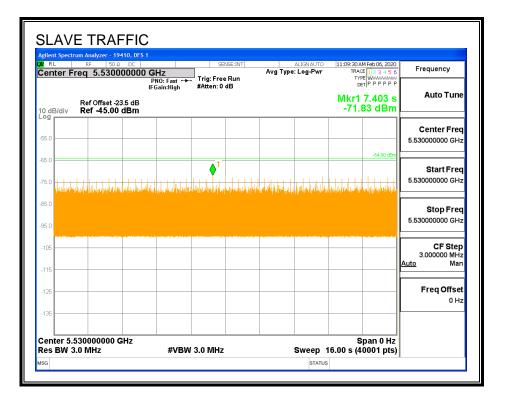
6.4.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



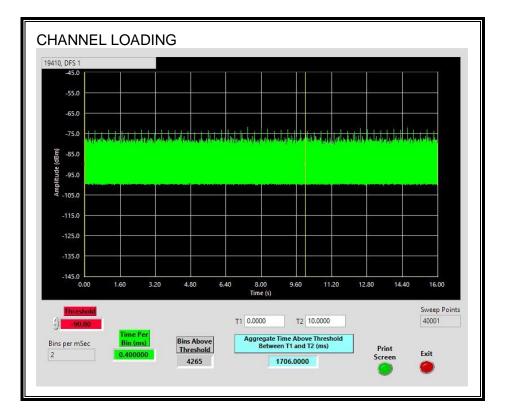
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TRAFFIC



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CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 17.06%

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6.4.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

6.4.4. MOVE AND CLOSING TIME

REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time = (Number of analyzer bins showing transmission) * (dwell time per bin)

The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

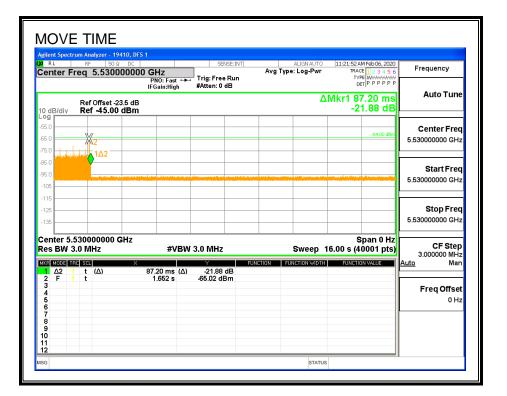
RESULTS

Channel Move Time	Limit
(sec)	(sec)
0.087	10

Aggregate Channel Closing Transmission Time	Limit
(msec)	(msec)
0	60

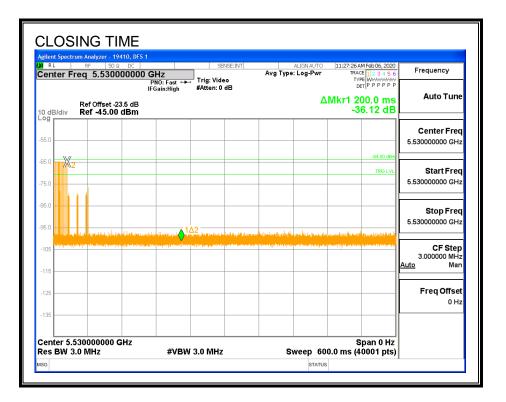
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MOVE TIME



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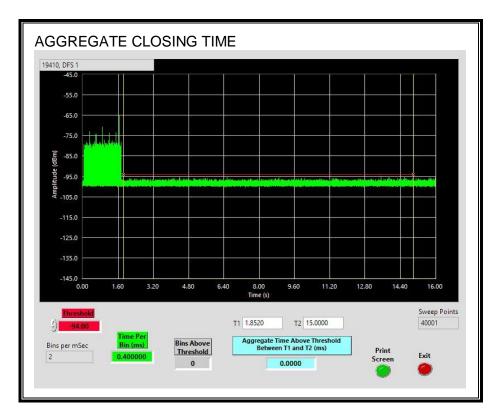
CHANNEL CLOSING TIME



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AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



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6.4.5. 30-MINUTE NON-OCCUPANCY PERIOD

RESULTS

No EUT transmissions were observed on the test channel during the 30-minute observation time.

gilent Spectrum Analyz RL RF enter Freq 5.	50 Ω DC	GHz PNO: Fast ↔►→		Run	Avg Type:	LIGN AUTO Log-Pwr	TRAC	MFeb 06, 2020 E 1 2 3 4 5 6 E W	Frequency
dB/div Ref -4		FGain:High	#Atten: 0	dB		4	۵ Mkr1 1	.800 ks 1.00 dB	Auto Tune
og 55.0									Center Fred 5.530000000 GH2
5.0 <mark>2</mark> 5.0 11								-64.00 dBm	Start Frec 5.530000000 GH2
5.0								1Δ2	Stop Free 5.53000000 GH:
105									CF Step 3.000000 MH: <u>Auto</u> Mar
25									Freq Offse 0 H
enter 5.530000	000 GHz	#\/6\4	3.0 MHz					pan 0 Hz 0001 pts)	

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