

FCC 47 CFR PART 15 SUBPART E

DFS

CERTIFICATION TEST REPORT

FOR

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

MODEL NUMBER : SM-A750N

FCC ID: A3LSMA750N

REPORT NUMBER: 12440940-E6V1

ISSUE DATE: AUG 21, 2018

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

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TL-637

Revision History

Rev.	Issue Date	Revisions	Revised By
V1	08/21/18	Initial issue	Hoonpyo Lee

Page 2 of 31

FORM ID: FCC_15E

TABLE OF CONTENTS

1.	ATTESTATION OF TEST RESULTS	4
2.	TEST METHODOLOGY	5
3.	FACILITIES AND ACCREDITATION	5
4.	CALIBRATION	5
5.	SUMMARY TABLE	6
6.	DYNAMIC FREQUENCY SELECTION	7
E	6.1. OVERVIEW 6.1.1. LIMITS 6.1.1. TEST AND MEASUREMENT SYSTEM 6.1.2. SETUP OF EUT 6.1.3. DESCRIPTION OF EUT	7 .11 .14
e	6.2. RESULTS FOR 20 MHz BANDWIDTH 6.2.1. TEST CHANNEL 6.2.2. RADAR WAVEFORM AND TRAFFIC 6.2.3. OVERLAPPING CHANNEL TESTS 6.2.4. MOVE AND CLOSING TIME	.16 .16 .18
e	6.3.RESULTS FOR 40 MHz BANDWIDTH6.3.1.TEST CHANNEL6.3.2.RADAR WAVEFORM AND TRAFFIC6.3.3.OVERLAPPING CHANNEL TESTS6.3.4.MOVE AND CLOSING TIME	.21 .21 .23
ť	6.4.RESULTS FOR 80 MHz BANDWIDTH6.4.1.TEST CHANNEL6.4.2.RADAR WAVEFORM AND TRAFFIC6.4.3.OVERLAPPING CHANNEL TESTS6.4.4.MOVE AND CLOSING TIME	.26 .26 .28
7.	SETUP PHOTOS	.31

1. ATTESTATION OF TEST RESULTS

COMPANY NAME:	SAMSUNG ELECTRONICS CO., LTD.
EUT DESCRIPTION:	GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n, ANT+ and NFC
MODEL NUMBER:	SM-A750N
SERIAL NUMBER:	R39K70AH0DL (CONDUCTED)
DATE TESTED:	AUG 20, 2018

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart E	Pass

UL Korea, Ltd. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Korea, Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Korea, Ltd. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Korea, Ltd. 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 IAS, any agency of the Federal Government, or any agency of any government.

Approved & Released For UL Korea, Ltd. By:

Tested By:

park

SungGil Park Suwon Lab Engineer UL Korea, Ltd.

Hoonpyo Lee Suwon Lab Engineer UL Korea, Ltd.

Page 4 of 31

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with following methods.

- 1. FCC CFR 47 Part 2.
- 2. FCC CFR 47 Part 15.
- 3. KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02
- 4. KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r02
- 5. ANSI C63.10-2013.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea. Line conducted emissions are measured only at the 218 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

218 Maeyeong-ro		
Chamber 1		
Chamber 2		
Chamber 3		

UL Korea, Ltd. is accredited by IAS, Laboratory Code TL-637. The full scope of accreditation can be viewed at <u>http://www.iasonline.org/PDF/TL/TL-637.pdf</u>.

4. 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.

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Page 5 of 31

5. SUMMARY TABLE

FCC Part Section	Test Description	Test Limit	Test Condition	Test Result
15.407 (h)(2)	Dynamic Frequency Selection	N/A	Condcuted	PASS

Page 6 of 31

6. DYNAMIC FREQUENCY SELECTION

6.1. OVERVIEW

6.1.1. LIMITS

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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Page 7 of 31

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

Page 8 of 31

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.		

Table 4: DFS Response requirement values

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.

Page 9 of 31

Table 5 – Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (usec)	PRI (usec)	Pulses	Minimum Percentage of Successful Detection	Minimum 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 usec. With a minimum increment of 1 usec, excluding PRI values selected in Test A	Roundup: {(1/360) x (19 x 10 ⁶ PRI _{usec})}	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 T	ypes 1-4)	80%	120
		ulse Radar Type 0 shou Channel Closing Time to	d be used for the <i>Detection Bal</i> ests.	ndwidth test, Ch	annel

Table 6 – Long Pulse Radar Test Signal

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

Table 7 – Frequency Hopping Radar Test Signal

Radar Waveform 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	0.333	300	70%	30

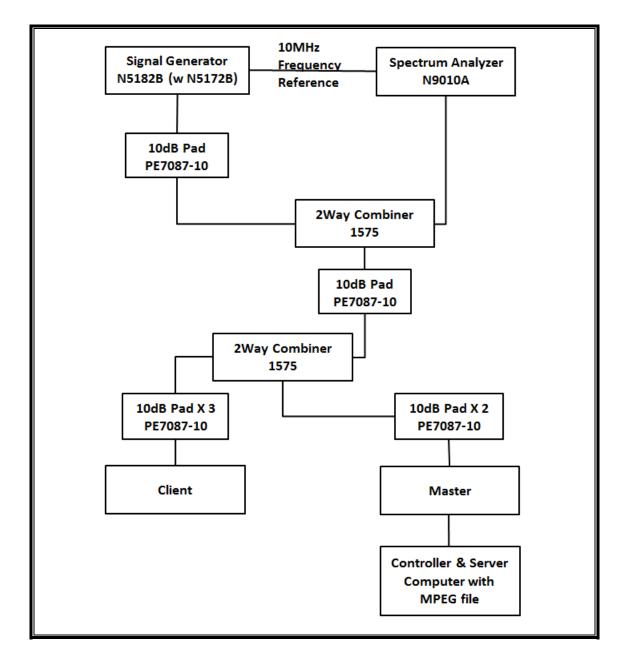
Page 10 of 31

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6.1.1. TEST AND MEASUREMENT SYSTEM

CONDUCTED METHOD SYSTEM BLOCK DIAGRAM



Page 11 of 31

SYSTEM OVERVIEW

The short pulse and long pulse signal generating system utilizes the Keysite Signal Studio for Pulse Building as N5172B. 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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Page 12 of 31

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 video test file is streamed to generate WLAN traffic. 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

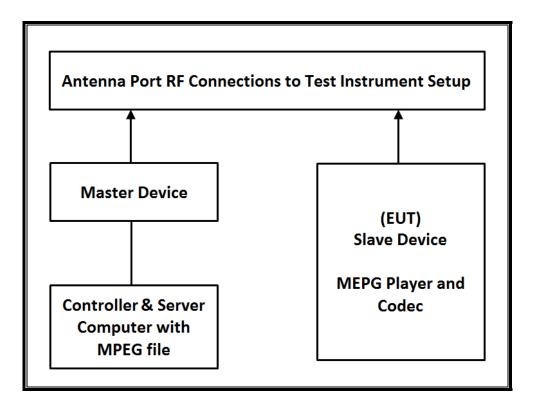
The following test and measurement equipment was utilized for the DFS tests documented in this report:

TEST EQUIPMENT LIST					
Description	Manufacturer Model		S/N	Cal Due	
Spectrum Analyzer, 7 GHz	Agilent / HP	N9010A	MY54200580	08-07-19	
Vector Signal Generator, 6GHz	Agilent / HP	N5182B	MY53051241	08-07-19	
Attenuator	PASTERNACK	PE7087-10	A001	08-08-19	
Attenuator	PASTERNACK	PE7087-10	A008	08-08-19	
Attenuator	PASTERNACK	PE7004-10	2	08-07-19	
Attenuator	PASTERNACK	PE7087-10	A009	08-08-19	
Attenuator	PASTERNACK	PE7087-10	A010	08-08-19	
Attenuator	PASTERNACK	PE7087-10	A002	08-08-19	
Attenuator	PASTERNACK	PE7087-10	A005	08-08-19	
Combiner	AEROFLEX/WEINSCHEL	1575	2153	08-08-19	
Combiner	AEROFLEX/WEINSCHEL	1575	2154	08-08-19	

Page 13 of 31

6.1.2. SETUP OF EUT

CONDUCTED METHOD EUT TEST SETUP



SUPPORT EQUIPMENT

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

PERIPHERAL SUPPORT EQUIPMENT LIST						
Description	ion Manufacturer Model		Serial Number	FCC ID		
Wireless Access Point	Cisco	AIR-CAP3702E-A-K9	FTX182276QX	LDK102087		
PC (Controller/Server)	HP	HP EliteDesk 800 G1 TWR	CZC4125J25	DoC		

Page 14 of 31

6.1.3. DESCRIPTION OF EUT

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

The EUT is a Slave Device without Radar Detection.

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

WLAN traffic that meets or exceeds the minimum required loading was generated by transferring a data stream from the controller/server PC to the EUT 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 802.11a/n/ac architecture. Two nominal channel bandwidths are implemented: 20 MHz, 40 MHz and 80 MHz.

The software installed in the access point is 12.4(25d)JA1.

UNIFORM CHANNEL SPREADING

This requirement is not applicable to Slave radio 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.

Page 15 of 31

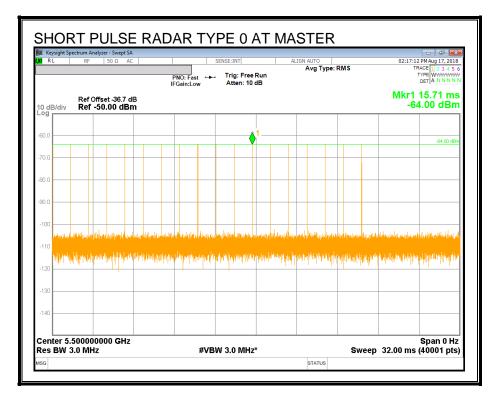
6.2. RESULTS FOR 20 MHz BANDWIDTH

6.2.1.TEST CHANNEL

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

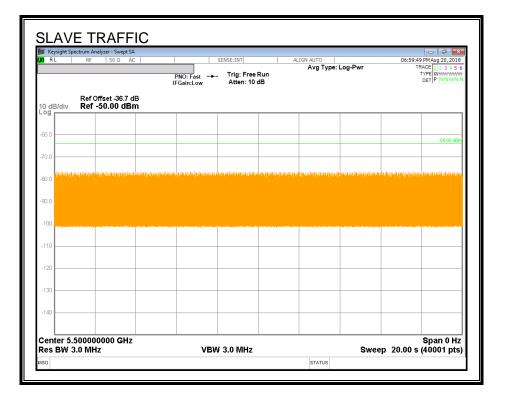
6.2.2.RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



Page 16 of 31

TRAFFIC



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Page 17 of 31

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)
0.789	10

Aggregate Channel Closing Transmission Time	Limit
(msec)	(msec)
4.875	60

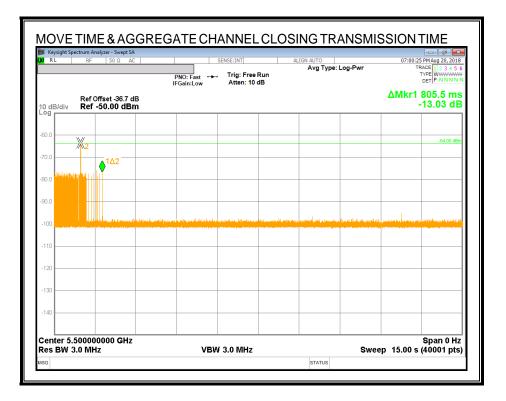
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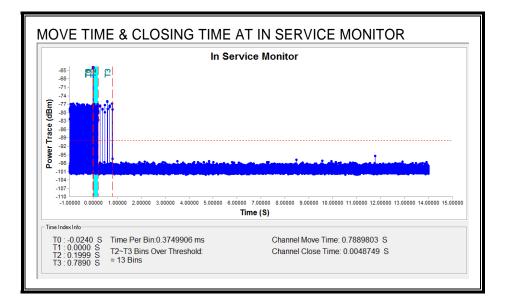
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MOVE TIME & CHANNEL CLOSING TIME

AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



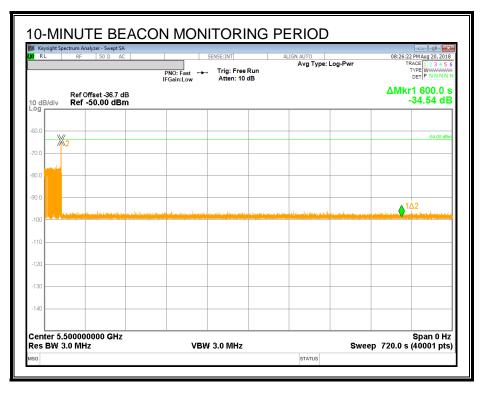


Page 19 of 31

NON-OCCUPANCY PERIOD

RESULTS

No EUT transmissions were observed on the test channel during the 10-minute observation time.



Page 20 of 31

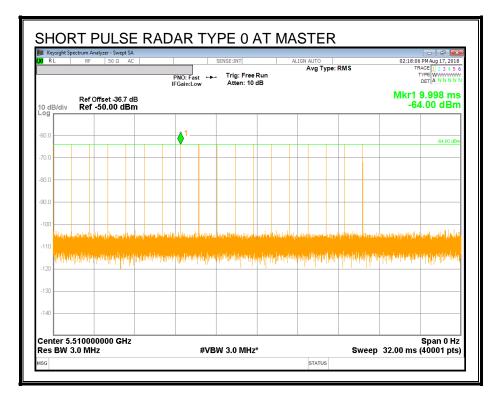
6.3. RESULTS FOR 40 MHz BANDWIDTH

6.3.1.TEST CHANNEL

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

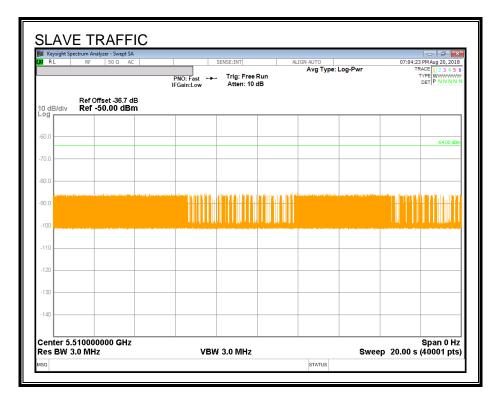
6.3.2.RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



Page 21 of 31

TRAFFIC



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Page 22 of 31

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)
0.753	10

Aggregate Channel Closing Transmission Time	Limit
(msec)	(msec)
0.005	60

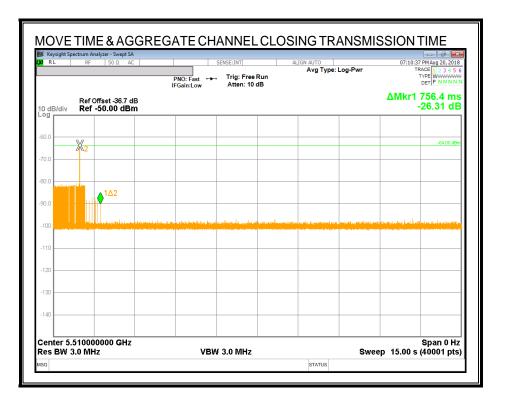
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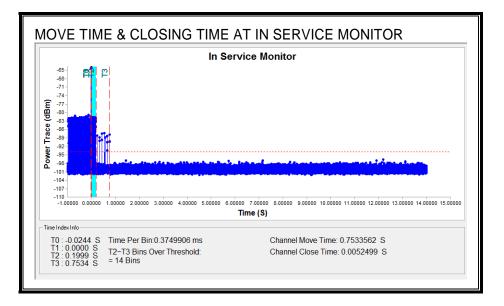
Page 23 of 31

MOVE TIME & CHANNEL CLOSING TIME

AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



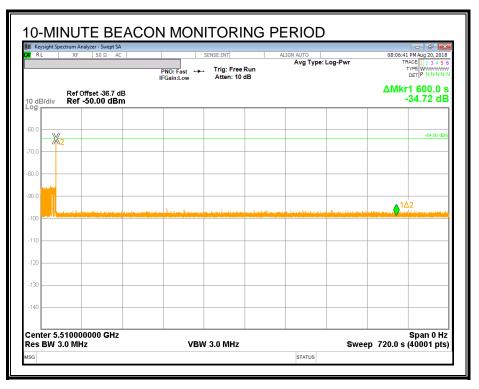


Page 24 of 31

NON-OCCUPANCY PERIOD

RESULTS

No EUT transmissions were observed on the test channel during the 10-minute observation time.



Page 25 of 31

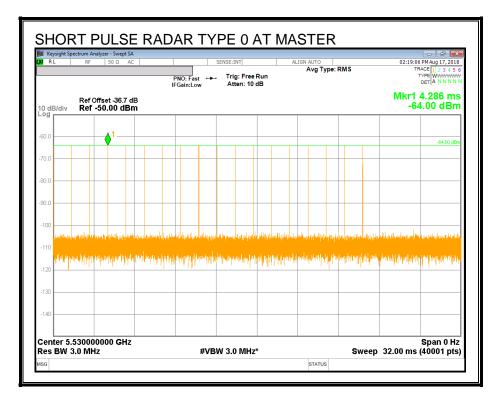
6.4. RESULTS FOR 80 MHz BANDWIDTH

6.4.1.TEST CHANNEL

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

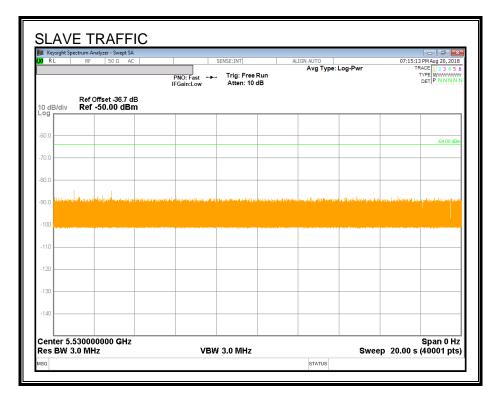
6.4.2.RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



Page 26 of 31

TRAFFIC



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)
6.152	10

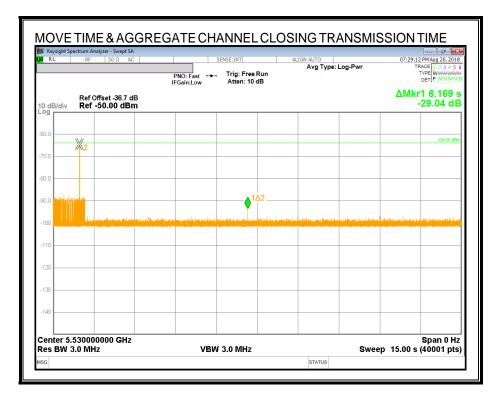
Aggregate Channel Closing Transmission Time	Limit
(msec)	(msec)
0.375	60

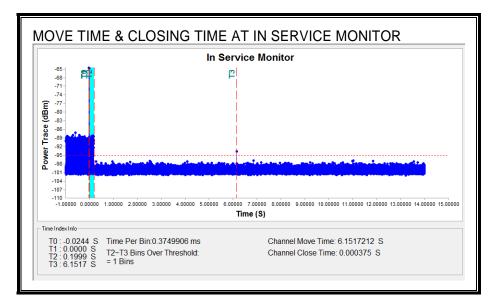
Page 28 of 31

MOVE TIME & CHANNEL CLOSING TIME

AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.





Page 29 of 31

NON-OCCUPANCY PERIOD

RESULTS

No EUT transmissions were observed on the test channel during the 10-minute observation time.

(Keysight Spectrum Analyzer - Swept SA RL RF 50 Ω AC			AUTO Avg Type: Log-Pwr	07:47:03 PM Aug 20, 2018 TRACE 1 2 3 4 5 (TYPE WWWWW DET P NNNN
Ref Offset -36.7 dB 0 dB/div Ref -50.00 dBm				ΔMkr1 600.0 s -34.23 dB
0.0				-64.00 dBn
70.0				
0.0				
	hans of and any second dependence platter and	المراجع والمراجع والمراجع والمراجع والمراجع		
20				
30				
140				
enter 5.530000000 GHz es BW 3.0 MHz	VBW 3.0 N			Span 0 Hz p 720.0 s (40001 pts

Page 30 of 31