

# **CERTIFICATION TEST REPORT**

# **Report Number.** : S-4791706652-E2V2

- Applicant : SAMSUNG ELECTRONICS CO., LTD. 129 SAMSUNG-RO, YEONGTONG-GU, SUWON-SI, GYEONGGI-DO, 16677, KOREA
  - Model : SM-L330
  - FCC ID : A3LSML330
- EUT Description : BT/BLE Smart Wearable + DTS/UNII a/b/g/n
- Test Standard(s) : FCC 47 CFR PART 15 SUBPART E

# Date Of Issue:

2025-05-07

# Prepared by:

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### **Revision History**

Rev.	Issue Date	Revisions	Revised By
V1	2025-04-30	Initial issue	Jaejin Lee
V2	2025-05-07	Updated to address TCB's question	Jaejin Lee

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# **1. ATTESTATION OF TEST RESULTS**

APPLICABLE STANDARDS				
DATE TESTED:	2025-04-26 - 2025-05-07			
SERIAL NUMBER:	R3AY100FCNN (CONDUCTED)			
MODEL NUMBER:	SM-L330			
EUT DESCRIPTION:	BT/BLE Smart Wearable + DTS/UNII a/b/g/n			
COMPANY NAME:	SAMSUNG ELECTRONICS CO., LTD.			

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

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:

Seokhwan Hong Suwon Lab Engineer UL KOREA LTD. Tested By:

Jaejin Lee Suwon Lab Engineer UL KOREA LTD.

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# 2. TEST METHODOLOGY

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

- 1. KDB 789033 D02 General UNII Test Procedures New Rules v02r01
- 2. KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02
- 3. KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r02
- 4. ANSI C63.10-2020.

# 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(3m semi-anechoic chamber)				
Chamber 2(3m semi-anechoic chamber)				
Chamber 3(3m semi-anechoic chamber)				
Chamber 4(3m Full-anechoic chamber)				
Chamber 5(3m Full-anechoic chamber)				

UL KOREA LTD. is accredited by IAS, Laboratory Code TL-637. The full scope of accreditation can be viewed at <a href="https://www.iasonline.org/wp-content/uploads/2017/05/TL-637-cert-New.pdf">https://www.iasonline.org/wp-content/uploads/2017/05/TL-637-cert-New.pdf</a>.

# 4. CALIBRATION AND UNCERTAINTY

# 4.1. 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.

# 4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY	
Time(Duty cycle and DFS)	0.60 %	

Uncertainty figures are valid to a confidence level of 95%.

# 4.3. DECISION RULE

Decision rule for statement(s) of conformity is based on Clause 4.4.3 in IEC Guide 115:2023.

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# 5. EQUIPMENT UNDER TEST

#### 5.1. **DESCRIPTION OF EUT**

The EUT is a BT/BLE Smart Wearable + DTS/UNII a/b/g/n. This test report addresses the NII (WLAN) operational mode.

#### **DESCRIPTION OF AVAILABLE ANTENNAS** 5.2.

An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

#### The internal antenna was Permanently attached. Therefore this E.U.T Complies with the requirement of §15.203.

UNII Band	Frequency Range[MHz]	ANT1 Gain [dBi]
UNII 1	5150 - 5250	-9.20
UNII 2A	5250 - 5350	-10.50
UNII 2C	5470 - 5725	-9.90
UNII 3	5725 - 5850	-10.00
UNII 4	5850 - 5925	-10.00

The radio utilizes a internal antenna, with a maximum gain of:

#### 5.3. **DESCRIPTION OF TEST SETUP**

#### SUPPORT EQUIPMENT

Support Equipment List							
Description Manufacturer Model Serial Number FCC ID							
Charger	SAMSUNG	EP-TA800	R37XBMJF8FBDKA	N/A			
Wireless Charger	SAMSUNG	EP-OL300	-	-			

### I/O CABLE

	I/O Cable List							
Cable No.Port# of identical portsConnector TypeCable TypeCable Length (m)Remarks				Remarks				
1	DC Power	1	С Туре	Shielded	0.8 m	N/A		

### TEST SETUP

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The EUT is connected to an Access Point (AP) during the tests and operates in normal mode (not controlled by software).

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# 6. TEST AND MEASUREMENT EQUIPMENT

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

Test Equipment List							
Description	Description Manufacturer Model						
Spectrum Analyzer, 44 GHz	Agilent / HP	N9030A	MY54170614	2025-07-24			
Spectrum Analyzer, 44 GHz	Agilent / HP	N9030A	MY54490312	2026-01-02			
Attenuator	PASTERNACK	PE7087-10	A001	2025-07-23			
Attenuator	PASTERNACK	PE7087-10	A008	2025-07-23			
Attenuator	PASTERNACK	PE7004-10	2	2025-07-23			
Attenuator	PASTERNACK	PE7087-10	A009	2025-07-23			
Termination	WEINSCHEL	M1406A	T09	2025-07-23			
Attenuator	WEINSCHEL	WA76-30-21	A015	2025-07-23			

# 7. SUMMARY TABLE

FCC Part Section Test Description		Test Limit	Test Condition	Test Result
15.407 (h)(2)	Dynamic Frequency Selection	Section 9	Condcuted	Complies

# 8. MEASUREMENT METHODS

Channel Move & Closing Time: 905462 D02 UNII DFS Compliance Procedures New Rules v02

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# 9. DYNAMIC FREQUENCY SELECTION

# 9.1. OVERVIEW

# 9.1.1. LIMITS

### <u>FCC</u>

§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".

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

Requirement	Operatio	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	Client		
		(without DFS)	(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 with multiple bandwidth modes	Master Device or Client with Radar DFS	Client (without DFS)
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes 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
<b>Note:</b> Frequencies selected for statistic frequencies within the radar detection bad detection bandwidth. For 802.11 devices blocks and a null frequency between the	andwidth and frequencies near the e s it is suggested to select frequencies	dge of the radar

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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	
Note 2: Throughout these test procedures an additional 1 dE	
amplitude of the test transmission waveforms to account for	variations in measurement
equipment. This will ensure that the test signal is at or above	e the detection threshold level to
trigger a DFS response.	
Note 3: E.I.R.P. is based on the highest antenna gain. For	SISO 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.

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#### Table 5 – Short Pulse Radar Test Waveforms

Radar	Pulse	PRI	Pulses	Minimum	Minimum
Type	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 <sup>6</sup> PRI <sub>usec</sub> )		
		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			
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	ld be used for the <i>Detection Ba</i> ests.	ndwidth test, Ch	annel

#### Table 6 – Long Pulse Radar Test Signal

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

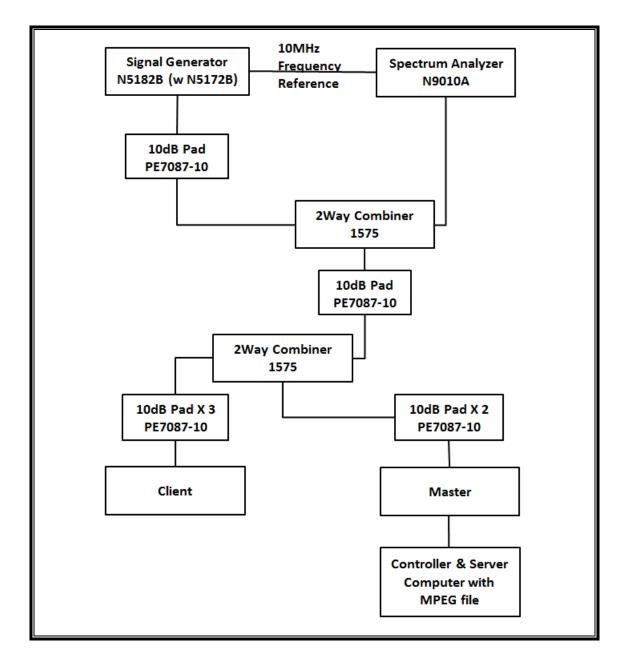
#### Table 7 – Frequency Hopping Radar Test Signal

Radar Waveform	Pulse Width	PRI (µsec)	Pulses per	Hopping Rate	Hopping Sequence	Minimum Percentage of	Minimum Trials
Туре	(µsec)	(1000)	Нор	(kHz)	Length	Successful	Thaid
					(msec)	Detection	
6	1	333	9	0.333	300	70%	30

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### 9.1.2. TEST AND MEASUREMENT SYSTEM

#### CONDUCTED METHOD SYSTEM BLOCK DIAGRAM



#### 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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#### 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

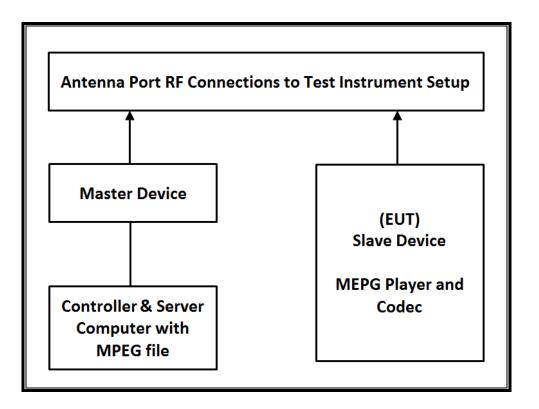
The following test and measurement equipment was utilized for the DFS tests documented in this report:

	TEST EQUIPMENT LIST					
Description	Manufacturer	Model	S/N	Next Cal Due		
Spectrum Analyzer, 44 GHz	KEYSIGHT	N9030B	MY60070693	2026-01-02		
Vector Signal Generator, 6GHz	Agilent / HP	N5182B	MY53051241	2025-07-24		
Combiner	WEINSCHEL	WA1534	UL001	2026-01-03		
Combiner	WEINSCHEL	WA1534	UL003	2026-01-03		

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### 9.1.3. 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	Manufacturer	Model	Serial Number	FCC ID	
Wireless Access Point	ASUS	GT-AXE11000	M3IAJF200742	MSQ-RTAXJF00	
Notebook PC (Controller/Server)	HP	HP EliteDesk 800 G1 TWR	CZC4125J25	DoC	

# 9.1.4. 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 highest power level of the widest bandwidth (802.11n HT20) within these bands is 16.28 dBm in the 5250-5350 MHz band and 5470-5725 MHz band. For output power data, please refer to the "S-4791706372-E8 FCC Report UNII(a,n) WLAN" report.

The antenna assembly utilized two antenna. Gain of ANT1 : -10.50 dBi for UNII 2A and -9.90 dBi for UNII 2C.

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 802.11 architecture. 1 nominal channel bandwidth are implemented: 20 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 ASUS Access Point, FCC ID: MSQ-RTAXJF00. 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.

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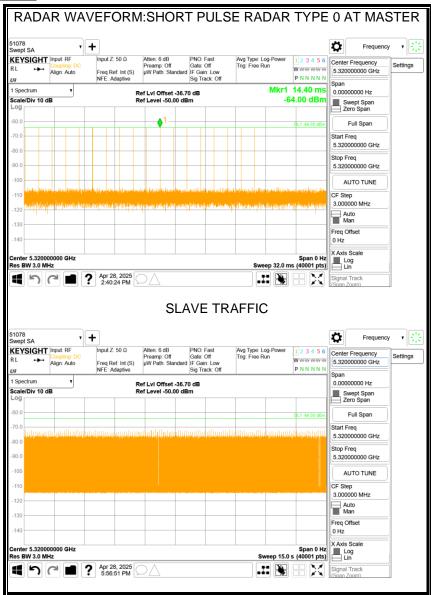
# 9.2. RESULTS FOR 20 MHz BANDWIDTH (UNII-2A BAND)

### 9.2.1. TEST CHANNEL

All tests were performed at a channel center frequency of 5320 MHz.

### 9.2.2. RADAR WAVEFORM AND TRAFFIC

#### RADAR WAVEFORM



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## 9.2.3. OVERLAPPING CHANNEL TESTS

#### **RESULTS**

These tests are not applicable.

### 9.2.4. 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)
0.750	10

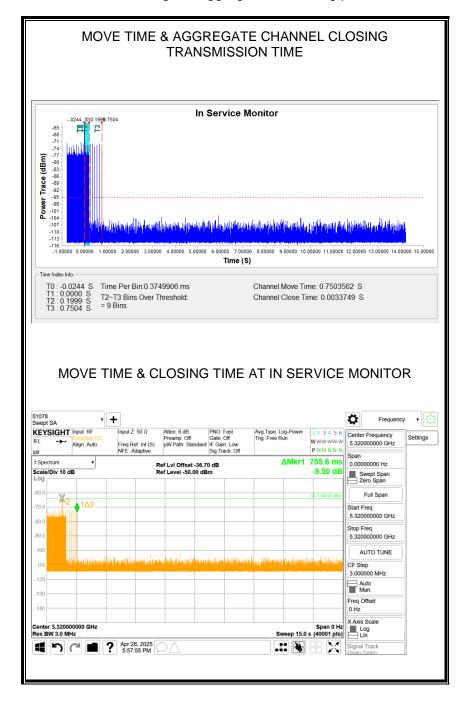
Aggregate Channel Closing Transmission Time	Limit
(msec)	(msec)
3.375	60

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#### **MOVE TIME & CHANNEL CLOSING TIME**

#### AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



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#### NON-OCCUPANCY PERIOD

#### **RESULTS**

i1078 Swept S	A	•	+					Fre	equency v
		Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Freq Ref: Int (S) NFE: Adaptive	Atten: 6 dB Preamp: Off µW Path: Standa	PNO: Fast Gate: Off ard IF Gain: Low Sig Track: Off	Avg Type: Log-Power Trig: Free Run	123456 WWWWW PNNNNN	Center Frequer 5.320000000	
1 Spect	um Div 10 d	T		Ref LvI Offset -3		ΔMk	r1 600.0 s -47.71 dB	0.00000000	
	// 10 u			Kei Level -50.00			-47.71 00	Swept Spa	an I
60.0	×2						DL1 -64.00 dBm	Full Spar	n
.70.0	// × 2							Start Freq 5.320000000	GHz
90.0								Stop Freq 5.320000000	GHz
-100	1.4	الله وعان الس	المرالية مراجعا الم		والمراجع والمراجع	terreturn det terretet det terretet	102.14.0		NE
-110	A STATE	an Alisan Alisan	se he fresh e de le fielde e e e	al a section a constitue stiffly.	anin sutistin i sund di jug	and much here different		CF Step 3.000000 MHz	
-120								Auto Man	·
-140								Freq Offset 0 Hz	
Center	5 32000	00000 GHz					Span 0 Hz	X Axis Scale	

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

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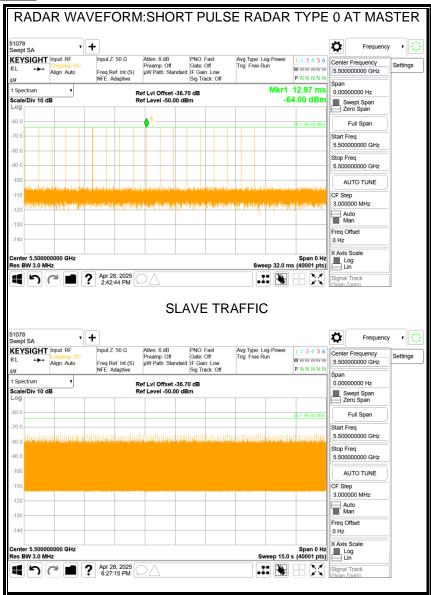
# 9.1. RESULTS FOR 20 MHz BANDWIDTH (UNII-2C BAND)

### 9.1.1. TEST CHANNEL

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

### 9.1.2. RADAR WAVEFORM AND TRAFFIC

#### RADAR WAVEFORM



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# 9.1.3. OVERLAPPING CHANNEL TESTS

#### **RESULTS**

These tests are not applicable.

### 9.1.4. 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)
5.417	10

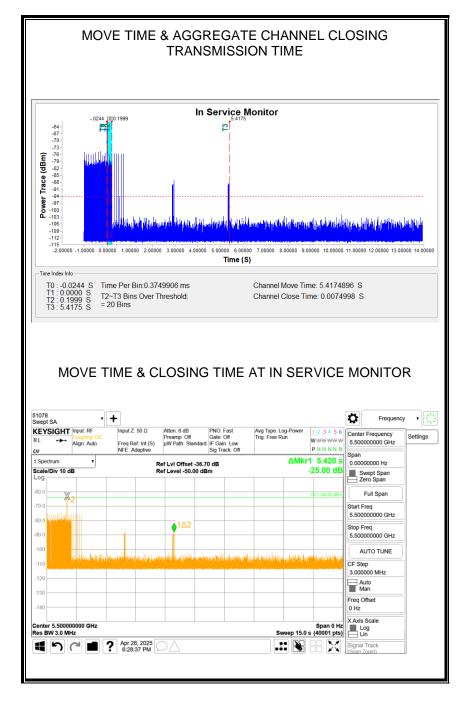
Aggregate Channel Closing Transmission Time	Limit
(msec)	(msec)
7.500	60

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#### **MOVE TIME & CHANNEL CLOSING TIME**

#### AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



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#### NON-OCCUPANCY PERIOD

#### **RESULTS**

1078 Swept SA	• +					Frequer	icy 🔻
	Coupling DC Align: Auto Free	ut Z: 50 Ω Atten: 6 dB Preamp: Off q Ref: Int (S) μW Path: Sta Adaptive	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Log-Power Trig: Free Run	1 2 3 4 5 6 WWWWWW PNNNNN	Center Frequency 5.50000000 GHz	Setti
Spectrum	•	Ref Lvi Offset Ref Level -50.		ΔMkr	1 600.0 s -44.59 dB	Span 0.00000000 Hz	_
60.0					DL1-64.00 dBm	E Zero Span	7
70.0						Start Freq 5.50000000 GHz	1
90.0						Stop Freq 5.50000000 GHz	1
100	un dek an managers i tanà	melomonidarjaniska strana anis	ille in task in steam a stire to	ala, azona otdar disek.	102	AUTO TUNE	
-110		week on white a memory of		a way in the second second	A DIMINI CANA S	CF Step 3.000000 MHz	
-130						Auto Man	
-140						Freq Offset 0 Hz	

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

# END OF TEST REPORT

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