

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

**CERTIFICATION TEST REPORT** 

FOR

**Body Worn Camera** 

### MODEL NUMBER: AX1037

FCC ID: X4GS01506 IC: 8803A-S01506

REPORT NUMBER: R14641114-D1

**ISSUE DATE: 2023-06-19** 

Prepared for Axon Enterprise Inc. 17800 N. 85th Street Scottsdale, AZ 85255, USA

Prepared by UL LLC 12 Laboratory Dr. Research Triangle Park, NC 27709 U.S.A. TEL: (919) 549-1400



## **REVISION HISTORY**

Rev.	lssue Date	Revisions	Revised By
V1	2023-05-24	Initial Issue	Samuel Bryson
V2	2023-06-19	Setup photos move to separate exhibit	B. Kiewra

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Page 2 of 40

# TABLE OF CONTENTS

RE\	/ISION HISTORY	2
TAE	BLE OF CONTENTS	3
1.	ATTESTATION OF TEST RESULTS	4
2.	TEST METHODOLOGY	5
3.	SUMMARY OF TEST RESULTS	5
4.	REFERENCE DOCUMENTS	5
5.	FACILITIES AND ACCREDITATION	5
6.	DECISION RULES AND MEASUREMENT UNCERTAINTY	
	<ol> <li>METROLOGICAL TRACEABILITY</li></ol>	
о. 7.	DYNAMIC FREQUENCY SELECTION	
7.	1. OVERVIEW         7.1.1. LIMITS         7.1.2. TEST AND MEASUREMENT SYSTEM         7.1.3. TEST AND MEASUREMENT SOFTWARE         7.1.4. TEST ROOM ENVIRONMENT         7.1.5. SETUP OF EUT         7.1.6. DESCRIPTION OF EUT         1         7.2.1. TEST CHANNEL         7.2.2. RADAR WAVEFORM AND TRAFFIC         7.2.3. OVERLAPPING CHANNEL TESTS         7.2.4. MOVE AND CLOSING TIME	77144568881
	3. RESULTS FOR 40 MHz BANDWIDTH27.3.1. TEST CHANNEL27.3.2. RADAR WAVEFORM AND TRAFFIC27.3.3. OVERLAPPING CHANNEL TESTS27.3.4. MOVE AND CLOSING TIME2	5 5 8 8
7.	4. RESULTS FOR 80 MHz BANDWIDTH       3         7.4.1. TEST CHANNEL       3         7.4.2. RADAR WAVEFORM AND TRAFFIC       3         7.4.3. OVERLAPPING CHANNEL TESTS       3         7.4.4. MOVE AND CLOSING TIME       3         7.4.5. NON-OCCUPANCY PERIOD       3	2 2 5 5
8.	SETUP PHOTOS4	0
END	O OF TEST REPORT4	0

Page 3 of 40

## 1. ATTESTATION OF TEST RESULTS

COMPANY NAME:	Axon Enterprise Inc. 17800 N. 85th Street Scottsdale, AZ 85255, USA
EUT DESCRIPTION:	Body Worn Camera
MODEL:	AX1037
SERIAL NUMBER:	D01A01701
DATE TESTED:	2023-03-08

APPLICABLE STANDARDS			
STANDARD	TEST RESULTS		
DFS Portion of CFR 47 Part 15 Subpart E	Complies		
DFS Portion of ISED CANADA RSS-247 Issue 2	Complies		

UL LLC 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 LLC and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC 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 A2LA, NIST, any agency of the Federal Government, or any agency of the U.S. government.

Approved & Released For UL LLC By:

ma

Henry Lau Project Engineer CONSUMER TECHNOLOGY DIVISION UL Verification Services Inc.

Prepared By:

Samuel Bryson Laboratory Technician CONSUMER TECHNOLOGY DIVISION UL LLC

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Page 4 of 40

## 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 KDB 789033, KDB 905462 D02 and D03 and RSS-247 Issue 2.

# 3. SUMMARY OF TEST RESULTS

Requirement Description	Result	Remarks
DFS Portion of FCC 47 CFR PART 15 SUBPART E	Complies	None
DFS Portion of ISED CANADA RSS-247 ISSUE 2	Complies	None

# 4. 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 LLC report number R14641114-E4.

This report contains data provided by the customer which can impact the validity of results. UL LLC is only responsible for the validity of results after the integration of the data provided by the customer.

# 5. FACILITIES AND ACCREDITATION

UL LLC is accredited by A2LA, certification # 0751.06, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration	
	Building: 12 Laboratory Dr RTP, NC 27709, U.S.A	US0067	2180C	825374	
$\boxtimes$	Building: 2800 Perimeter Park Dr. Suite B Morrisville, NC 27560, U.S.A	030007	27265		

Page 5 of 40

## 6. DECISION RULES AND MEASUREMENT UNCERTAINTY

### 6.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

## 6.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement).

Page 6 of 40

## 7. DYNAMIC FREQUENCY SELECTION

## 7.1. OVERVIEW

### 7.1.1. LIMITS

### INNOVATION, SCIENCE and ECONOMIC DEVELOPMENT CANADA (ISED)

ISED 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".

Page 7 of 40

### 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	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 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 40

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

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 dB				
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.

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Page 9 of 40

#### 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 <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 Types 1-4) 80% 120							
Note 1:	Note 1: Short Pulse Radar Type 0 should be used for the Detection Bandwidth test, Channel							
Move T	Move Time, and Channel Closing Time tests.							

Table 6 – Long Pulse Radar Test Signal

			1 4010 0	Longi			griai	
	Radar	Pulse	Chirp	PRI	Pulses	Number	Minimum	Minimum
	Waveform	Width	Width	(µsec)	per	of	Percentage	Trials
	Туре	(µsec)	(MHz)		Burst	Bursts	of Successful	
		,					Detection	
ĺ	5	50-100	5-20	1000-	1-3	8-20	80%	30
				2000				

### Table 7 – Frequency Hopping Radar Test Signal

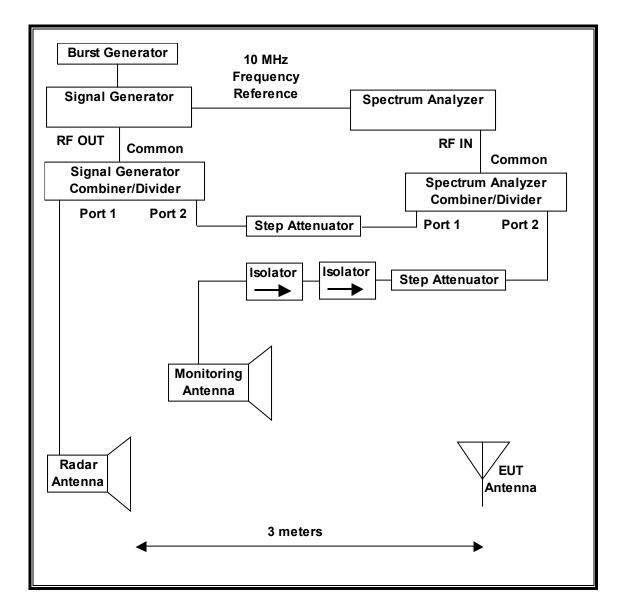
					-		
Radar	Pulse	PRI	Pulses	Hopping	Hopping	Minimum	Minimum
Waveform	Width	(µsec)	per	Rate	Sequence	Percentage of	Trials
Туре	(µsec)		Нор	(kHz)	Length	Successful	
	. ,		-	. ,	(msec)	Detection	
6	1	333	9	0.333	300	70%	30

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Page 10 of 40

### 7.1.2. TEST AND MEASUREMENT SYSTEM

#### RADIATED METHOD SYSTEM BLOCK DIAGRAM



Page 11 of 40

### 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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Page 12 of 40

### 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. Traffic that meets or exceed the minimum loading requirement is streamed from the Master device to the Slave Device through Iperf. 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 8.4GHz	Keysight	N9030A	89232	2023-07-14	
Signal Generator, MXG X-Series RF Vector	Keysight	N5182B	215042	2024-01-24	
Frequency Extender	Keysight	N5182BX	215272	2024-01-13	
	Advanced	250-441EM-			
2.5-7.5 GHz Horn Antenna	Technical	NF/CAL	AT0070	2023-04-11	
	Materials INC.				

**Note:** An MXG series Signal Generator and separate external Frequency Extender module are shown in the preceding test system block diagram as a stand-alone Signal Generator.

Page 13 of 40

### 7.1.3. 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			

### 7.1.4. 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**

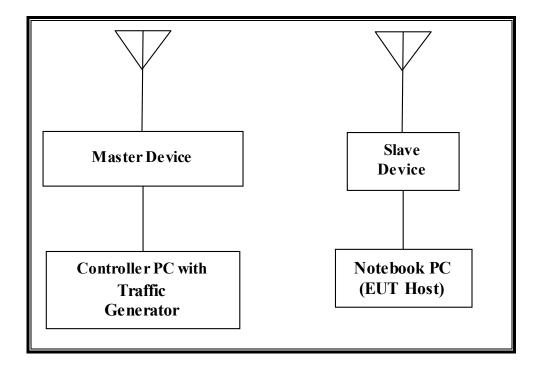
Parameter	Value
Temperature	22.1 – 24.3 °C
Humidity	20 – 22 %

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Page 14 of 40

### 7.1.5. 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		
Access Point, 802.11ac Dual	Cisco	AIR-CAP3702E-A-	FTX1827R5FF	LDK102087		
Band (20, 40 and 80 MHz		K9				
Bandwidth Master Device)						
P.O.E. Injector	Cisco	DPSN-35FBA	DCA183510NA	N/A		
Laptop	HP	14-dk1003dx	5CGO16B3DL	TX2-RTL8821CE		
Laptop Power Supply	HP	HSTNN-CA40	N/A	N/A		

Page 15 of 40

### 7.1.6. DESCRIPTION OF EUT

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

The EUT is a Slave Device without Radar Detection.

The manufacturer has declared that the highest power level within these bands is 20.09 dBm EIRP in the 5250-5350 MHz band and 20.6 dBm EIRP in the 5470-5725 MHz band.

The only antenna assembly utilized with the EUT has a gain of 3.22 dBi in the 5250-5350 MHz band and 4.53 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.

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.

Channel puncturing is not supported by the EUT.

TDLS (Tunneled Direct Link Setup) mode is not supported by the EUT.

The software installed in the EUT is v0.2309.4.

The software installed in the access point is:

AP System Software: AP3G2-K9W7-XX Version 15.3(3)JAB HyperTerminal Interface: Software v4.18.2 and Firmware v1.15.2

Page 16 of 40

### UNIFORM CHANNEL SPREADING

This function is not required per KDB 905462.

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 4.5 dBi.

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:

AP System Software: AP3G2-K9W7-XX Version 15.3(3)JAB HyperTerminal Interface: Software v4.18.2 and Firmware v1.15.2

Page 17 of 40

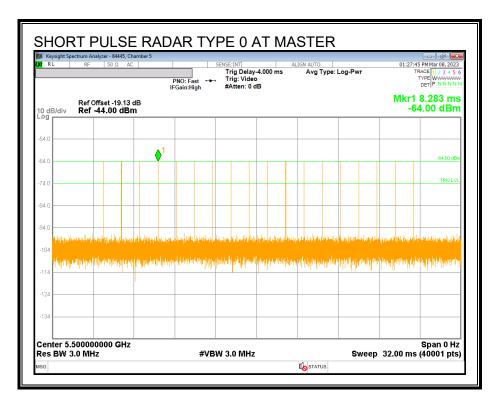
#### 7.2. **RESULTS FOR 20 MHz BANDWIDTH**

### 7.2.1. TEST CHANNEL

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

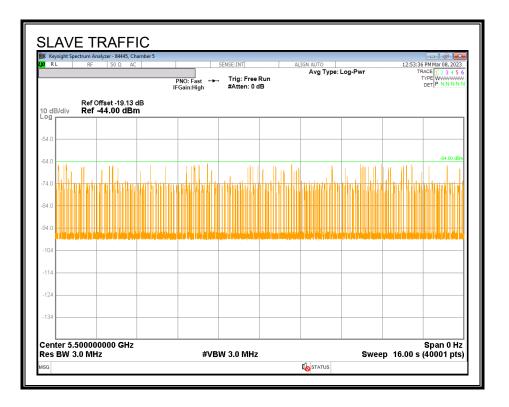
## 7.2.2. RADAR WAVEFORM AND TRAFFIC

### **RADAR WAVEFORM**



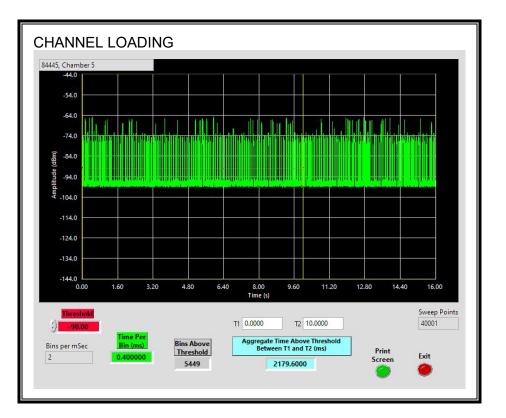
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### **TRAFFIC**



Page 19 of 40

### **CHANNEL LOADING**



The level of traffic loading on the channel by the EUT is 21.80 %

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Page 20 of 40

### 7.2.3. OVERLAPPING CHANNEL TESTS

#### RESULTS

These tests are not applicable.

### 7.2.4. 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).

#### <u>RESULTS</u>

Channel Move Time	Limit
(sec)	(sec)
2.17	10

Aggregate Channel Closing Transmission Time	Limit
(msec)	(msec)
13.2	60

Page 21 of 40

#### MOVE TIME

Keysight Spectrum Analyzer - 84445, Cl			_				- 0
RL RF 50 Ω A0			g: Free Run ten: 0 dB	ALIGN AUTO Avg Type	: Log-Pwr	TRA	PM Mar 08, 202 ICE 1 2 3 4 5 (PE WWWWW DET P N N N N
Ref Offset -19.13 dB/div Ref -44.00 dB							2.170 s 1.10 dE
4.0							-64.00 dBi
4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	<u>2∆1</u>						
4.0							
4.0							
14							
34							
enter 5.500000000 GHz es BW 3.0 MHz		#VBW 3.0	MHz		Swee	؛ 4) p 16.00 s	Span 0 H: 10001 pts
1 N 1 t	x 1.540 s	Y -64.18 dBm	FUNCTION	FUNCTION WIDTH		UNCTION VALUE	
2 Δ1 1 t (Δ) 3 4	2.170 s (Δ)	-11.10 dB					
5							:
7 8 9							
0 1							

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Page 22 of 40

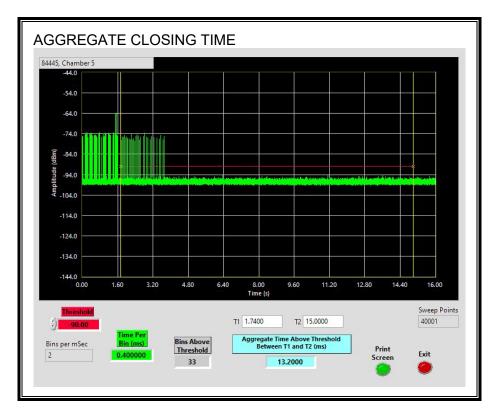
### CHANNEL CLOSING TIME



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### AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

Only intermittent transmissions are observed during the aggregate monitoring period.



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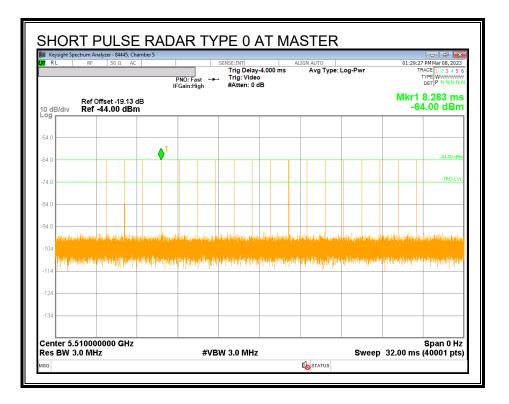
## 7.3. RESULTS FOR 40 MHz BANDWIDTH

### 7.3.1. TEST CHANNEL

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

### 7.3.2. RADAR WAVEFORM AND TRAFFIC

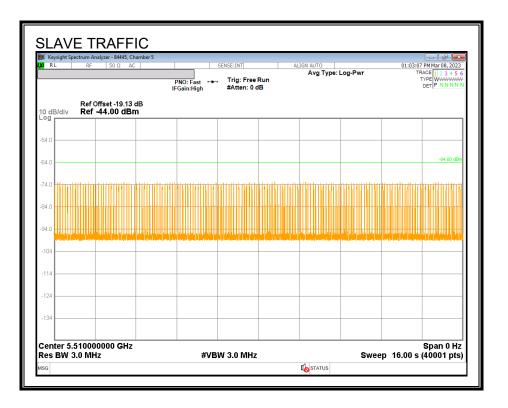
### RADAR WAVEFORM



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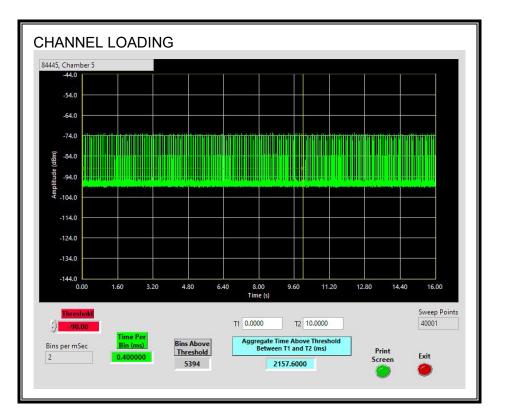
Page 25 of 40

### **TRAFFIC**



Page 26 of 40

### **CHANNEL LOADING**



The level of traffic loading on the channel by the EUT is 21.58 %

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Page 27 of 40

### 7.3.3. OVERLAPPING CHANNEL TESTS

#### RESULTS

These tests are not applicable.

### 7.3.4. 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).

#### <u>RESULTS</u>

Channel Move Time	Limit
(sec)	(sec)
0.058	10

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

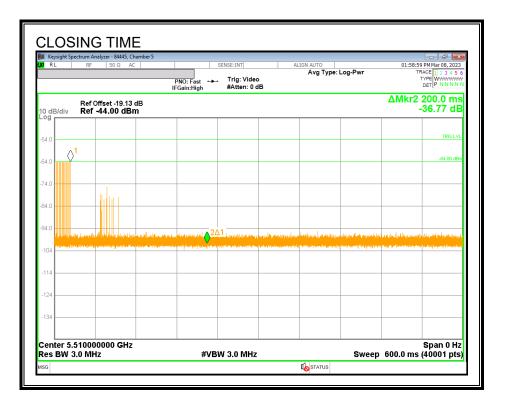
Page 28 of 40

#### MOVE TIME

Keysight Spectrum Analyzer - 84445, Chamb RL RF 50 Ω AC	ber 5	orner mit				
RL RF 50 Ω AC	PNO: Fas IFGain:Hig		ree Run : 0 dB	ALIGN AUTO Avg Type:	Log-Pwr	02:06:28 PM Mar 08, 2023 TRACE 1 2 3 4 5 TYPE WWWWW DET P N N N N
Ref Offset -19.13 dB dB/div Ref -44.00 dBm					Δ	/kr2 58.00 ms -11.50 dB
4.0 1 4.0 2Δ1						-64.00 dBm
4.0						
24						
enter 5.510000000 GHz es BW 3.0 MHz		#VBW 3.0 N	Hz		Sweep 10	Span 0 Hz 5.00 s (40001 pts)
TRC         SCL         X           1         N         1         t           2         Δ1         1         t           3         3         1         1	1.592 s 58.00 ms (Δ)	-64.01 dBm -11.50 dB	FUNCTION FU	JNCTION WIDTH	FUNCTIO	N VALUE
4 5 6						E
7 8 9 0						

Page 29 of 40 UL LLC FORM NO: 03-EM-F00858 12 Laboratory Dr., RTP, NC 27709 TEL: (919) 549-1400 This report shall not be reproduced except in full, without the written approval of UL LLC

### CHANNEL CLOSING TIME



 Page 30 of 40

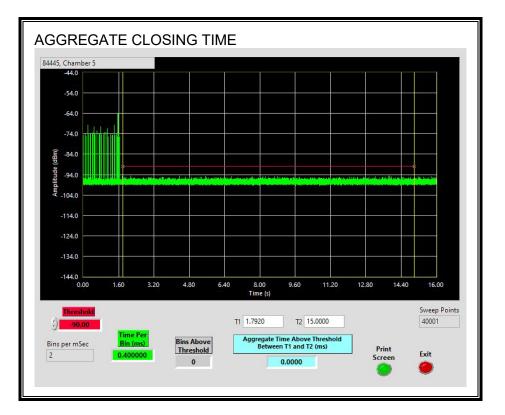
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### AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



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Page 31 of 40

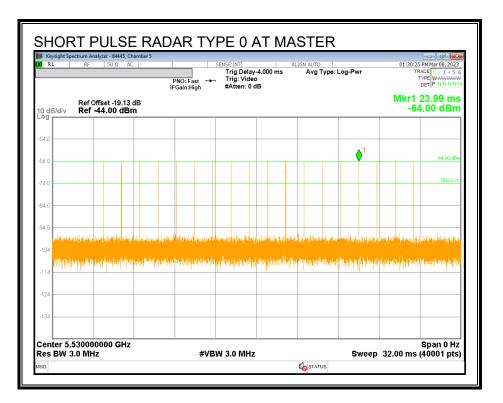
#### 7.4. **RESULTS FOR 80 MHz BANDWIDTH**

### 7.4.1. TEST CHANNEL

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

## 7.4.2. RADAR WAVEFORM AND TRAFFIC

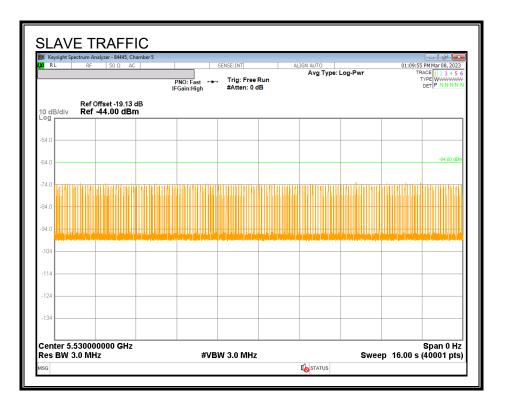
### **RADAR WAVEFORM**



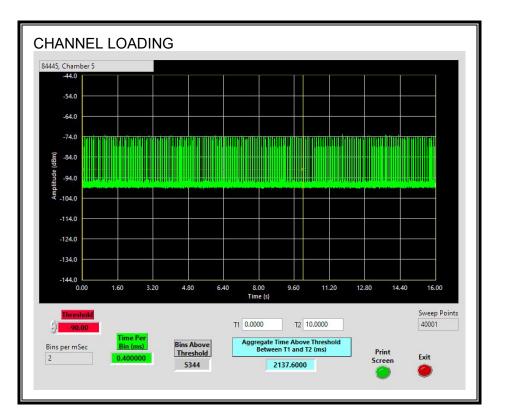
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Page 32 of 40

### **TRAFFIC**



### CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 21.38 %

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Page 34 of 40

### 7.4.3. OVERLAPPING CHANNEL TESTS

#### RESULTS

These tests are not applicable.

### 7.4.4. 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)
0.078	10

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

Page 35 of 40

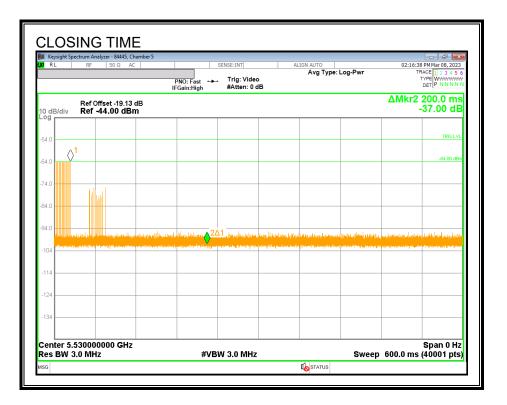
#### MOVE TIME

eysight Spectrum Analyzer - 84445, RL RF 50 Ω	Chamber 5 AC	CENCE.	07			02,12,0	0 PM Mar 08, 202
KE Kr 50.32			g: Free Run ten: 0 dB	ALIGN AUTO Avg Type	: Log-Pwr	U2:13:U	RACE 1 2 3 4 5 TYPE WWWWW DET P NNNN
Ref Offset -19.1 B/div Ref -44.00 dB						ΔMkr2	78.00 m -12.07 d
Δ <u>2Δ1</u>							-64.00 dB
ontratadada 🔽 👘							
				ni da di la consciencia da si d			
4							
4							
4							
nter 5.530000000 GH s BW 3.0 MHz	z	#VBW 3.0	MHz		Swe	ep 16.00 s	Span 0 H (40001 pt
MODE TRC SCL	X	Y	FUNCTION	FUNCTION WIDTH		FUNCTION VALUE	
N 1 t Δ1 1 t (Δ)	1.647 s 78.00 ms (Δ)	-63.94 dBm -12.07 dB					

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Page 36 of 40

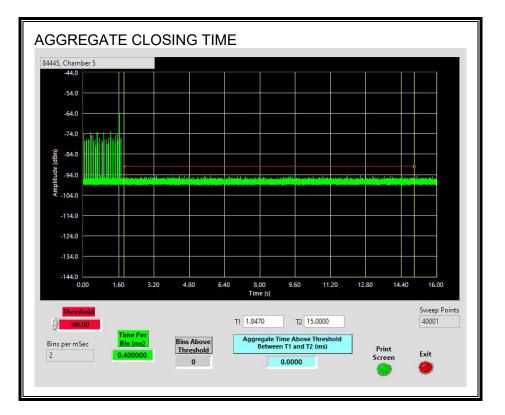
### CHANNEL CLOSING TIME



Page 37 of 40 UL LLC FORM NO: 03-EM-F00858 12 Laboratory Dr., RTP, NC 27709 TEL: (919) 549-1400 This report shall not be reproduced except in full, without the written approval of UL LLC

### AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



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Page 38 of 40

### 7.4.5. NON-OCCUPANCY PERIOD

#### RESULTS

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

Keysight Spectrum Analyzer - 84445, Chamber 5           RL         RF         50 Ω         AC	SENSE:INT	ALIGN AUTO	03:	🕒 🗗 론 09:15 PM Mar 08, 2023
	PNO: Fast ↔ Trig: Fre IFGain:High #Atten: 0	Avg Type: L e Run		TRACE 1 2 3 4 5 TYPE WWWWWW DET P N N N N
Ref Offset -19.13 dB dB/div Ref -44.00 dBm			ΔΜΙ	(r2 1.800 ks -32.32 dE
4.0				
i4.0				-64.00 dBr
4.0				
4.0				
	ana 1911 januar (m. 1911 ar 1919 ar 1916) ar 1916 ar 1916 ar 1916 ar 1916 ar 1917 ar 1917 ar 1917 ar 1917 ar 19	en berling binger kennenge die Darmen Operanden gesche	administration of Christian Street Ingently Instantia	2Δ1
04				
14				
24				
34				
enter 5.530000000 GHz es BW 3.0 MHz	#VBW 3.0 MH	7	Sweep 2.000	Span 0 Hz ks (40001 pts

Page 39 of 40

## 8. SETUP PHOTOS

Refer to exhibit R14641114-EP2 for setup photos.

## **END OF TEST REPORT**

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Page 40 of 40