

Test Report

Report No.:	MTi241125027-04E1
Date of issue:	2025-01-20
Applicant:	Shenzhen ShengJieTong Technology Co., Ltd
Product name:	Wireless lavalier microphone
Model(s):	K50
FCC ID:	2A6Q3-K50

Shenzhen Microtest Co., Ltd. http://www.mtitest.cn

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Test Result Certification				
Applicant:	Shenzhen ShengJieTong Technology Co., Ltd			
Address:	Floor B, 5th Floor, Building 2, Zone B, Tangxi Second Industrial Zone, No. 21, Xijing Road, Gushu Community Xixiang Street, Baoan District, Shenzhen, China			
Manufacturer:	Shenzhen ShengJieTong Technology Co., Ltd			
Address:	Floor B, 5th Floor, Building 2, Zone B, Tangxi Second Industrial Zone, No. 21, Xijing Road, Gushu Community Xixiang Street, Baoan District, Shenzhen, China			
Product description				
Product name:	Wireless lavalier microphone			
Trade mark:	N/A			
Model name:	K50			
Series Model(s):	N/A			
Standards:	47 CFR Part 15.247			
Test Method:	KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10-2013			
Date of Test				
Date of test:	2024-12-02 to 2025-01-07			
Test result:	Pass			

Test Engineer	:	: Madearh Davy		
		(Maleah Deng)		
Reviewed By	: Dowid. Cee			
		(David Lee)		
Approved By	: (con chen			
		(Leon Chen)		



General Description 1

Description of the EUT 1.1

Product name:	Wireless lavalier microphone			
Model name:	K50			
Series Model(s):	N/A			
Model difference:	N/A			
Electrical rating:	Input: DC 5V Battery: Charging box: DC 3.7 600mAh; Transmitter: DC 3.7V 150mAh			
Accessories:	Cable: 1. USB-A to Type-C*2 cable (0.3m)*1 2. 3.5mm cable(0.3m)*1 3. Type-C to Type-C cable (0.15m)*1 4. Type-C to Lightning cable (0.15m)*1 Multi functional Receiver *1 Android/Apple Receiver(Lightning/Type-C) *1 Charging box *1			
Hardware version:	V1.0			
Software version:	V1.0			
Test sample(s) number:	MTi241125027-04S1001			
RF specification				
Bluetooth version:	V5.3			
Operating frequency range:	2402-2480MHz			
Channel number:	79			
Modulation type:	GFSK,π/4-DQPSK			
Antenna(s) type:	Ceramic Antenna			
Antenna(s) gain:	2.58dBi			
1.2 Description of test	modes			

tion of test modes

No. Emission test modes		
Mode1	TX-GFSK	
Mode2	TX-π/4-DQPSK	

1.2.1 Operation channel list

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466

Address: 101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China. Tel: 0755-88850135-1439 Mobile: 131-4343-1439 (Wechat same number) Web: http://www.mtitest.cn E-mail: mti@51mti.com



5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461	-	-

Test Channel List

Lowest Channel (LCH)	Middle Channel (MCH)	Highest Channel (HCH)
(MHz)	(MHz)	(MHz)
2402	2441	2480

Note: The test software provided by manufacturer is used to control EUT for working in engineering mode, that enables selectable channel, and capable of continuous transmitting mode.

Test Software:

For power setting, refer to below table.

Test Software:	FCC Assist 1.0.2.2					
Mode	2402MHz 2441MHz 2480MHz					
GFSK	7	7	7			
π/4-DQPSK	7	7	7			



1.3 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15°C ~ 35°C
Humidity:	20% RH ~ 75% RH
Atmospheric pressure:	98 kPa ~ 101 kPa

1.4 Description of support units

Support equipment list							
Description	Model	Serial No.	Manufacturer				
<i>I I I I</i>							
Support cable list							
Description	Length (m)	From	То				
/	/	/	/				

1.5 Measurement uncertainty

Measurement	Uncertainty
Occupied channel bandwidth	±3 %
RF output power, conducted	±1 dB
Time	±1 %
Unwanted Emissions, conducted	±1 dB
Radiated spurious emissions (above 1GHz)	±5.3dB
Radiated spurious emissions (9kHz~30MHz)	±4.3dB
Radiated spurious emissions (30MHz~1GHz)	±4.7dB
Temperature	±1 °C
Humidity	± 5 %

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





2 Summary of Test Result

No.	Item	Standard	Requirement	Result
1	Antenna requirement	47 CFR Part 15.247	47 CFR 15.203	Pass
2	20dB Bandwidth	47 CFR Part 15.247	47 CFR 15.247(a)(1)	Pass
3	Maximum Conducted Output Power	47 CFR Part 15.247	47 CFR 15.247(b)(1)	Pass
4	Channel Separation	47 CFR Part 15.247	47 CFR 15.247(a)(1)	Pass
5	Number of Hopping Frequencies	47 CFR Part 15.247	47 CFR 15.247(a)(1)(iii)	Pass
6	Dwell Time	47 CFR Part 15.247	47 CFR 15.247(a)(1)(iii)	Pass
7	RF conducted spurious emissions and band edge measurement	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass
8	Band edge emissions (Radiated)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass
9	Radiated emissions (below 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass
10	Radiated emissions (above 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass
11	Conducted Emission at AC power line	47 CFR Part 15.247	47 CFR 15.207(a)	N/A

Note: Since the EUT cannot be operating while charging, therefore AC power line conducted emissions test is not required.



3 Test Facilities and accreditations

3.1 Test laboratory

Test laboratory:	Shenzhen Microtest Co., Ltd.
Test site location:	101, No.7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Telephone:	(86-755)88850135
Fax:	(86-755)88850136
CNAS Registration No.:	CNAS L5868
FCC Registration No.:	448573
IC Registration No.:	21760
CABID:	CN0093



4 List of test equipment

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due				
	20dB Bandwidth Maximum Conducted Output Power Channel Separation Number of Hopping Frequencies Dwell Time									
	Emissions in non-restricted frequency bands									
1	Wideband Radio Communication Tester	Rohde&schwarz	CMW500	149155	2024-03-20	2025-03-19				
2	ESG Series Analog Ssignal Generator	Agilent	E4421B	GB40051240	2024-03-21	2025-03-20				
3	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2024-03-21	2025-03-20				
4	Synthesized Sweeper	Agilent	83752A	3610A01957	2024-03-21	2025-03-20				
5	MXA Signal Analyzer	Agilent	N9020A	MY50143483	2024-03-21	2025-03-20				
6	RF Control Unit	Tonscend	JS0806-1	19D8060152	2024-03-21	2025-03-20				
7	Band Reject Filter Group	Tonscend	JS0806-F	19D8060160	2024-03-21	2025-03-20				
8	ESG Vector Signal Generator	Agilent	N5182A	MY50143762	2024-03-20	2025-03-19				
9	DC Power Supply	Agilent	E3632A	MY40027695	2024-03-21	2025-03-20				
		Band edge Emissions in freq	emissions (Radi uency bands (ab							
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2024-03-20	2025-03-19				
2	Double Ridged Broadband Horn Antenna	schwarabeck	BBHA 9120 D	2278	2023-06-17	2025-06-16				
3	Amplifier	Agilent	8449B	3008A01120	2024-03-20	2025-03-19				
4	MXA signal analyzer	Agilent	N9020A	MY54440859	2024-03-21	2025-03-20				
5	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2024-03-21	2025-03-20				
6	Horn antenna	Schwarzbeck	BBHA 9170	00987	2023-06-17	2025-06-16				
7	Pre-amplifier	Space-Dtronics	EWLAN1840 G	210405001	2024-03-21	2025-03-20				
	Emissions in frequency bands (below 1GHz)									
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2024-03-20	2025-03-19				
2	TRILOG Broadband Antenna	schwarabeck	VULB 9163	9163-1338	2023-06-11	2025-06-10				
3	Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00066	2024-03-23	2025-03-22				
4	Amplifier	Hewlett-Packard	8447F	3113A06184	2024-03-20	2025-03-19				



5 Evaluation Results (Evaluation)

5.1 Antenna requirement

Test Requirement:	Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall 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.

5.1.1 Conclusion:

The antenna of the EUT is permanently attached. The EUT complies with the requirement of FCC PART 15.203.



6 Radio Spectrum Matter Test Results (RF)

6.1 20dB Bandwidth

Test Requirement:	47 CFR 15.247(a)(1)
Test Limit:	Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.
Test Method:	ANSI C63.10-2013, section 7.8.7, For occupied bandwidth measurements, use the procedure in 6.9.2. KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	 a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW. b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement. c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2. d) Steps a) through c) might require iteration to adjust within the specified tolerances. e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target "-xx dB down" requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value. f) Set detection mode to peak and trace mode to max hold. g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value). h) Determine the "-xx dB down amplitude" using [(reference value) - xx]. Alternatively, this calculation may be made by using the marker-delta function of the instrument. j) Flace two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "-xx dB down amplitude" value, then it shall be ac close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequenc

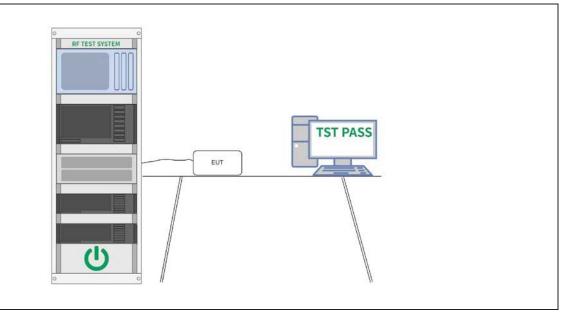


measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the
plot(s).

6.1.1 E.U.T. Operation:

Operating Environment:							
Temperature: 22.7 °C			Humidity:	50 %		Atmospheric Pressure:	101 kPa
Pre test mode:		Mode	e1, Mode2				
Final test mode:		Mode	e1, Mode2				

6.1.2 Test Setup Diagram:



6.1.3 Test Data:



6.2 Maximum Conducted Output Power

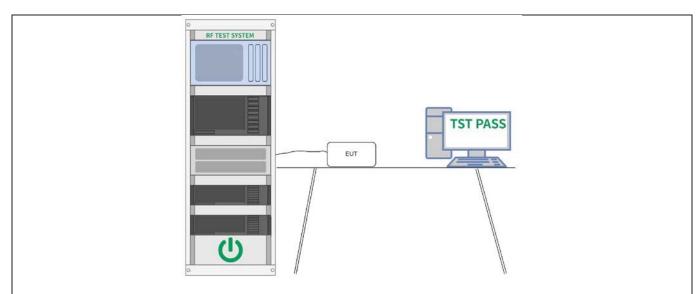
Test Limit:Refer to 47 CFR 15.247(b)(1), For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.Test Method:ANSI C63.10-2013, section 7.8.5 KDB 558074 D01 15.247 Meas Guidance v05r02Procedure:This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. The hopping shall be disabled for this test: a) Use the following spectrum analyzer settings: 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel. 2) RBW > 20 dB bandwidth of the emission being measured. 3) VBW >= RBW. 4) Sweep: Auto. 5) Detector function: Peak. 6) Trace: Max hold. b) Allow trace to stabilize. c) Use the marker-to-peak function to set the marker to the peak of the emission. d) The indicated level is the peak output power, after any corrections for external attenuators and cables. e) A plot of the test results and setup description shall be included in the test report. NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum apackgrer	Test Requirement:	47 CFR 15.247(b)(1)
Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 Procedure: This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. The hopping shall be disabled for this test: a) Use the following spectrum analyzer settings: 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel. 2) RBW > 20 dB bandwidth of the emission being measured. 3) VBW >= RBW. 4) Sweep: Auto. 5) Detector function: Peak. 6) Trace: Max hold. b) Allow trace to stabilize. c) Use the marker-to-peak function to set the marker to the peak of the emission. d) The indicated level is the peak output power, after any corrections for external attenuators and cables. e) A plot of the test results and setup description shall be included in the test report. NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum 	Test Limit:	the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band:
 direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. The hopping shall be disabled for this test: a) Use the following spectrum analyzer settings: 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel. 2) RBW > 20 dB bandwidth of the emission being measured. 3) VBW >= RBW. 4) Sweep: Auto. 5) Detector function: Peak. 6) Trace: Max hold. b) Allow trace to stabilize. c) Use the marker-to-peak function to set the marker to the peak of the emission. d) The indicated level is the peak output power, after any corrections for external attenuators and cables. e) A plot of the test results and setup description shall be included in the test report. NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum 	Test Method:	
	Procedure:	 direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. The hopping shall be disabled for this test: a) Use the following spectrum analyzer settings: 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel. 2) RBW > 20 dB bandwidth of the emission being measured. 3) VBW >= RBW. 4) Sweep: Auto. 5) Detector function: Peak. 6) Trace: Max hold. b) Allow trace to stabilize. c) Use the marker-to-peak function to set the marker to the peak of the emission. d) The indicated level is the peak output power, after any corrections for external attenuators and cables. e) A plot of the test results and setup description shall be included in the test report. NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied

6.2.1 E.U.T. Operation:

Operating Environment:							
Temperature: 22.7 °C			Humidity:	50 %		Atmospheric Pressure:	101 kPa
Pre test mode: Mod			e1, Mode2				
Final test mode: Mod		Mode	e1, Mode2				

6.2.2 Test Setup Diagram:





6.2.3 Test Data:



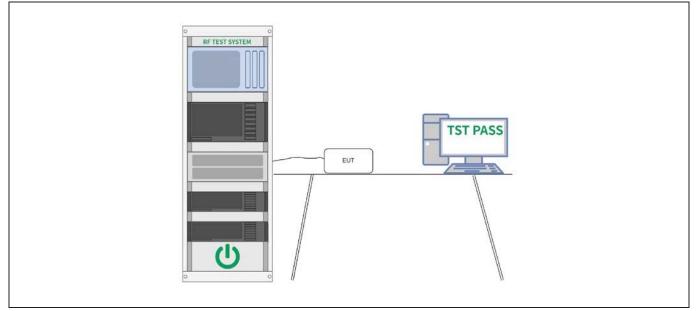
6.3 Channel Separation

Test Requirement:	47 CFR 15.247(a)(1)
Test Limit:	Refer to 47 CFR 15.247(a)(1), Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.
Test Method:	ANSI C63.10-2013, section 7.8.2 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	 The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: Wide enough to capture the peaks of two adjacent channels. b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel. c) Video (or average) bandwidth (VBW) ≥ RBW. d) Sweep: Auto. e) Detector function: Peak. f) Trace: Max hold. g) Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A plot of the data shall be included in the test report.

6.3.1 E.U.T. Operation:

Operating Environment:						
Temperature: 22.7 °C Humidity: 50 % Atmospheric Pressure: 101 kPa					101 kPa	
Pre test mode: Mo			e1, Mode2			
Final test mode: Mode			e1, Mode2			

6.3.2 Test Setup Diagram:



6.3.3 Test Data:



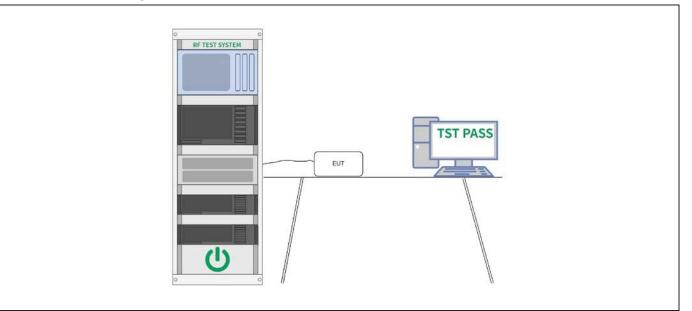
6.4 Number of Hopping Frequencies

Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit:	Refer to 47 CFR 15.247(a)(1)(iii), Fequency hopping systems in the 2400- 2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Method:	ANSI C63.10-2013, section 7.8.3 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	 The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen. b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller. c) VBW ≥ RBW. d) Sweep: Auto. e) Detector function: Peak. f) Trace: Max hold. g) Allow the trace to stabilize. It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A plot of the data shall be included in the test report.

6.4.1 E.U.T. Operation:

Operating Envi	ironment:					
Temperature:	22.7 °C		Humidity:	50 %	Atmospheric Pressure:	101 kPa
Pre test mode:		Mode	e1, Mode2			
Final test mode	e:	Mode	e1, Mode2			

6.4.2 Test Setup Diagram:



6.4.3 Test Data:



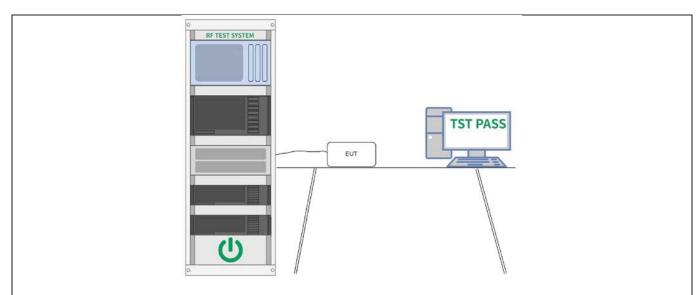
6.5 Dwell Time

Test Requirement: 47 CFR 15.247(a)(1)(iii) Test Limit: Refer to 47 CFR 15.247(a)(1)(iii), Frequency hopping systems in the 2400- 2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels are used. Test Method: ANSI C63.10-2013, section 7.8.4 KDB 558074 D01 15.247 Meas Guidance v05r02 Procedure: The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: Zero span, centered on a hopping channel. b) RBW shall be <= channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel. d) Detector function: Peak. e) Trace: Max hold. Use the marker-della function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time. Repeat the measurement using a longer sweep time to determine the number of hops on yetertm analyzer sycerified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements. Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements analyzer sweep time) The average time of occupancy is calculated from the transmit time per hop multiplied by the n		
2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used. Test Method: ANSI C63.10-2013, section 7.8.4 KDB 558074 D01 15.247 Meas Guidance v05r02 Procedure: The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: Zero span, centered on a hopping channel. b) RBW shall be <= channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel. c) Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel. d) Detector function: Peak. e) Trace: Max hold. Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements, using the following equation: (Number of hops in the period specified in the requirements, using the following equation: (Number of hops in the period specified in the requirements, using the following equation:	Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 Procedure: The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: 	Test Limit:	2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels
 analyzer settings: a) Span: Zero span, centered on a hopping channel. b) RBW shall be <= channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel. c) Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel. d) Detector function: Peak. e) Trace: Max hold. Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time. Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements, using the following equation: (Number of hops in the period specified in the requirements, using the following equation: (Number of hops on spectrum analyzer) × (period specified in the requirements. If the number of hops in a specific time varies with different modes of operation (data rate, modulation format, number of hops in a specific time varies with different modes of operation.) The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements. If the number of hops in a specific time varies with different modes of operation. The average time of hops in a specific time varies with different modes of operation. The measured transmit time and time between hops shall be consistent with<	Test Method:	
651 FUT Operation:		 analyzer settings: a) Span: Zero span, centered on a hopping channel. b) RBW shall be <= channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel. c) Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel. d) Detector function: Peak. e) Trace: Max hold. Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time. Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements, using the following equation: (Number of hops on spectrum analyzer) × (period specified in the requirements, using the following equation: (Number of hops on spectrum analyzer) × (period specified in the requirements. If the number of hops in a specific time varies with different modes of operation (data rate, modulation format, number of hops in a specific time varies with different modes of operation specified in the requirements.

6.5.1 E.U.T. Operation:

Operating Envi	ironment:					
Temperature:	22.7 °C		Humidity:	50 %	Atmospheric Pressure:	101 kPa
Pre test mode:		Mode	e1, Mode2			
Final test mode	e:	Mode	e1, Mode2			
6.5.2 Test Setu	p Diagra	m:				





6.5.3 Test Data:



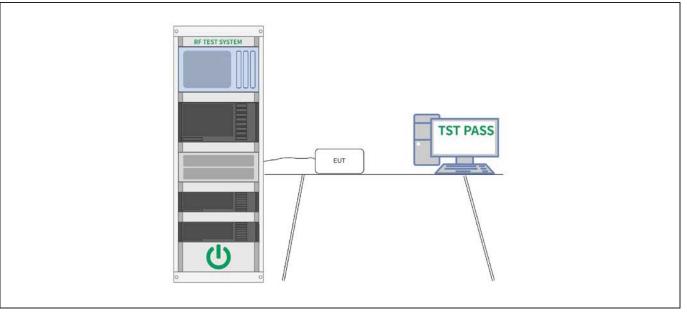
6.6 RF conducted spurious emissions and band edge measurement

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Test Limit:	Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	ANSI C63.10-2013 section 7.8.8 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	Conducted spurious emissions shall be measured for the transmit frequency, per 5.5 and 5.6, and at the maximum transmit powers. Connect the primary antenna port through an attenuator to the spectrum analyzer input; in the results, account for all losses between the unlicensed wireless device output and the spectrum analyzer. The instrument shall span 30 MHz to 10 times the operating frequency in GHz, with a resolution bandwidth of 100 kHz, video bandwidth of 300 kHz, and a coupled sweep time with a peak detector. The band 30 MHz to the highest frequency may be split into smaller spans, as long as the entire spectrum is covered.

6.6.1 E.U.T. Operation:

Operating Envi	ronment:					
Temperature:	22.7 °C		Humidity:	50 %	Atmospheric Pressure:	101 kPa
Pre test mode:		Mode	e1, Mode2			
Final test mode	e:	Mode	e1, Mode2			

6.6.2 Test Setup Diagram:



6.6.3 Test Data:



6.7 Band edge emissions (Radiated)

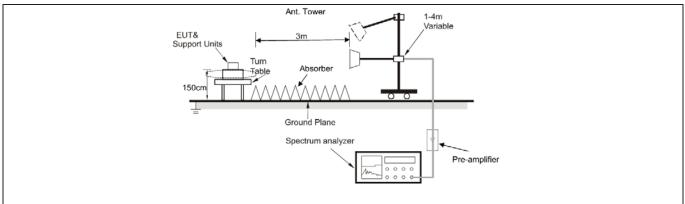
Test Requirement:	restricted bands, as de	7(d), In addition, radiated em fined in § 15.205(a), must als s specified in § 15.209(a)(see	so comply with the
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measuremen t distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
	intentional radiators op frequency bands 54-72 However, operation wit sections of this part, e. In the emission table a The emission limits sho employing a CISPR qu kHz, 110–490 kHz and	n paragraph (g), fundamenta erating under this section sh 2 MHz, 76-88 MHz, 174-216 hin these frequency bands is g., §§ 15.231 and 15.241. bove, the tighter limit applies own in the above table are ba asi-peak detector except for above 1000 MHz. Radiated on measurements employing	all not be located in the MHz or 470-806 MHz. s permitted under other at the band edges. ased on measurements the frequency bands 9–90 emission limits in these
Test Method:	ANSI C63.10-2013 sec KDB 558074 D01 15.2	tion 6.10 47 Meas Guidance v05r02	
Procedure:	ANSI C63.10-2013 sec	ction 6.10.5.2	

6.7.1 E.U.T. Operation:

Operating Env	ironment:					
Temperature:	23.9 °C		Humidity:	45.2 %	Atmospheric Pressure:	101 kPa
Pre test mode:		Mode	e1, Mode2			
Final test mode	e:			re-test mode w ded in the repo	rere tested, only the data or Int	of the worst mode
Note:						

The amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported.

6.7.2 Test Setup Diagram:





6.7.3 Test Data:

Mode2 / Polarization: Horizontal / CH: L	
--	--

	zauo							
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2310.000	48.06	-4.83	43.23	74.00	-30.77	peak
2		2310.000	37.90	-4.83	33.07	54.00	-20.93	AVG
3		2390.000	47.90	-4.31	43.59	74.00	-30.41	peak
4	*	2390.000	38.38	-4.31	34.07	54.00	-19.93	AVG

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2310.000	47.63	-4.83	42.80	74.00	-31.20	peak
2		2310.000	37.68	-4.83	32.85	54.00	-21.15	AVG
3		2390.000	47.37	-4.31	43.06	74.00	-30.94	peak
4	*	2390.000	38.04	-4.31	33.73	54.00	-20.27	AVG



No. N	/k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	2483.500	51.12	-4.21	46.91	74.00	-27.09	peak
2	2483.500	40.89	-4.21	36.68	54.00	-17.32	AVG
3	2500.000	50.86	-4.10	46.76	74.00	-27.24	peak
4 *	2500.000	40.80	-4.10	36.70	54.00	-17.30	AVG

No	. Mk.	Freq.	CH: H Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2483.500	47.51	-4.21	43.30	74.00	-30.70	peak
2		2483.500	37.83	-4.21	33.62	54.00	-20.38	AVG
3		2500.000	47.65	-4.10	43.55	74.00	-30.45	peak
4	*	2500.000	38.29	-4.10	34.19	54.00	-19.81	AVG



6.8 Radiated emissions (below 1GHz)

Test Requirement:	restricted bands, as de	7(d), In addition, radiated em fined in § 15.205(a), must als s specified in § 15.209(a)(see	so comply with the				
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measuremen t distance (meters)				
	0.009-0.490	2400/F(kHz)	300				
	0.490-1.705	24000/F(kHz)	30				
	1.705-30.0	30	30				
	30-88	100 **	3				
	88-216	150 **	3				
	216-960	200 **	3				
	Above 960	500	3				
	 ** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector. 						
Test Method:	ANSI C63.10-2013 sec KDB 558074 D01 15.2	ction 6.6.4 47 Meas Guidance v05r02					
Procedure:	ANSI C63.10-2013 sec	ction 6.6.4					

6.8.1 E.U.T. Operation:

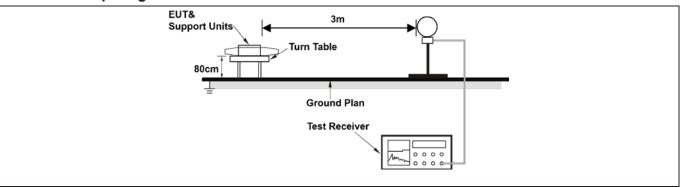
Operating Environment:									
Temperature:	: 23.9 °C		Humidity:	45.2 %	Atmospheric Pressure:	101 kPa			
Pre test mode:		Mode	e1, Mode2						
Final test mode	e:	All of the listed pre-test mode were tested, only the data of the worst mode (Mode2) is recorded in the report							
Nata									

Note:

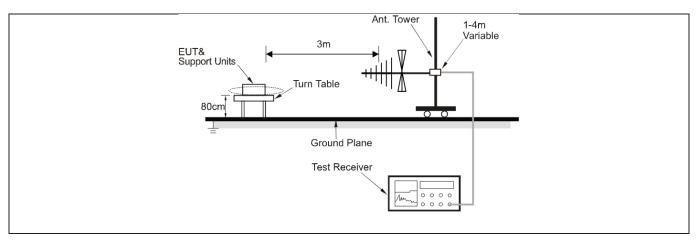
The amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported.

All modes of operation of the EUT were investigated, and only the worst-case results are reported. There were no emissions found below 30MHz within 20dB of the limit.

6.8.2 Test Setup Diagram:

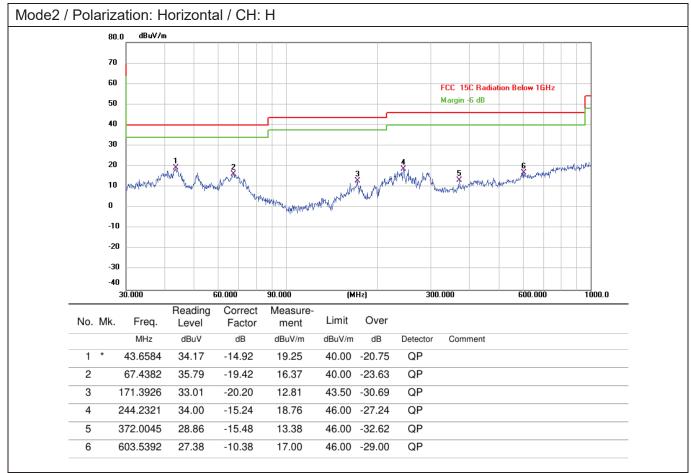






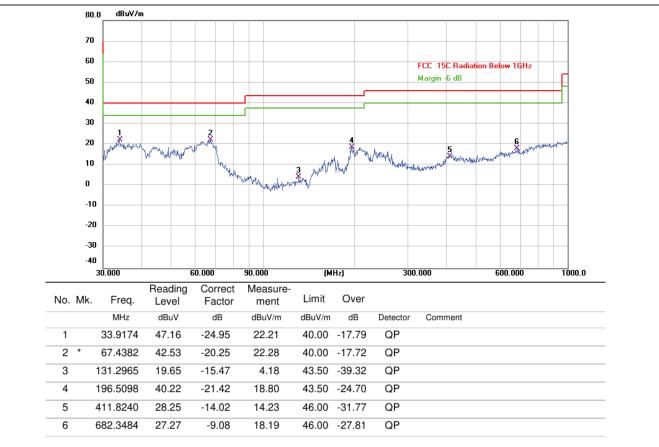


6.8.3 Test Data:





Mode2 / Polarization: Vertical / CH: H





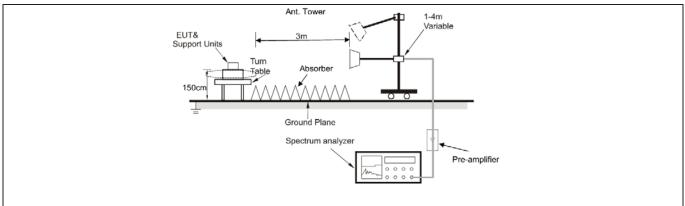
6.9 Radiated emissions (above 1GHz)

Test Requirement:	-	nissions which fall in the rest comply with the radiated em 5(c)).`	-				
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measuremen t distance (meters)				
	0.009-0.490	2400/F(kHz)	300				
	0.490-1.705	24000/F(kHz)	30				
	1.705-30.0	30	30				
	30-88	100 **	3				
	88-216	150 **	3				
	216-960	200 **	3				
	Above 960	500	3				
	 ** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in th frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under othe sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector except for the frequency bands § kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector 						
Test Method:	ANSI C63.10-2013 sec KDB 558074 D01 15.2	tion 6.6.4 47 Meas Guidance v05r02					
Procedure:	ANSI C63.10-2013 sec	tion 6.6.4					

6.9.1 E.U.T. Operation:

Operating Environment:								
Temperature:	23.9 °C		Humidity:	45.2 %	Atmospheric Pressure:	101 kPa		
Pre test mode: Mode1, Mode2								
Final test mode	e:	All of (Moc	ere tested, only the data rt	of the worst mode				
Note: Test frequency are from 1GHz to 25GHz, the amplitude of spurious emissions which are								
attenuated more than 20 dB below the limits are not reported.								
All modes of operation of the EUT were investigated, and only the worst-case results are reported.								

6.9.2 Test Setup Diagram:





6.9.3 Test Data:

Mode2 / Polarization: Horizontal / CH: L

/loae2 /	Polari	zatio	n: Horizonta	al / CH: L						
	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	
	1		4804.000	45.07	0.53	45.60	74.00	-28.40	peak	
-	2		4804.000	39.63	0.53	40.16	54.00	-13.84	AVG	
	3		7206.000	42.78	7.90	50.68	74.00	-23.32	peak	
	4		7206.000	38.35	7.90	46.25	54.00	-7.75	AVG	
	5		9608.000	44.14	8.85	52.99	74.00	-21.01	peak	
	6	*	9608.000	40.36	8.85	49.21	54.00	-4.79	AVG	

No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	4804.000	43.06	0.53	43.59	74.00	-30.41	peak
2	4804.000	37.74	0.53	38.27	54.00	-15.73	AVG
3	7206.000	42.11	7.90	50.01	74.00	-23.99	peak
4	7206.000	37.26	7.90	45.16	54.00	-8.84	AVG
5	9608.000	46.37	8.85	55.22	74.00	-18.78	peak
6 *	9608.000	41.32	8.85	50.17	54.00	-3.83	AVG



No. Mk		al / CH: M Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	4882.000	45.63	0.57	46.20	74.00	-27.80	peak
2	4882.000	39.59	0.57	40.16	54.00	-13.84	AVG
3	7323.000	42.81	7.57	50.38	74.00	-23.62	peak
4	7323.000	36.71	7.57	44.28	54.00	-9.72	AVG
5	9764.000	46.08	9.33	55.41	74.00	-18.59	peak
6 *	9764.000	40.31	9.33	49.64	54.00	-4.36	AVG

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4882.000	44.60	0.57	45.17	74.00	-28.83	peak
2		4882.000	39.72	0.57	40.29	54.00	-13.71	AVG
3		7323.000	42.56	7.57	50.13	74.00	-23.87	peak
4		7323.000	37.59	7.57	45.16	54.00	-8.84	AVG
5		9764.000	46.63	9.33	55.96	74.00	-18.04	peak
6	*	9764.000	39.99	9.33	49.32	54.00	-4.68	AVG



Mode2 /	Polarizati	on: Horizonta	al / CH: H					
	No. Mł	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
	1	4960.000	46.75	0.66	47.41	74.00	-26.59	peak
	2	4960.000	41.50	0.66	42.16	54.00	-11.84	AVG
	3	7440.000	43.27	7.94	51.21	74.00	-22.79	peak
	4	7440.000	37.29	7.94	45.23	54.00	-8.77	AVG
	5	9920.000	43.94	9.69	53.63	74.00	-20.37	peak
	6 *	9920.000	38.45	9.69	48.14	54.00	-5.86	AVG

No	. Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4960.000	43.78	0.66	44.44	74.00	-29.56	peak
2		4960.000	37.59	0.66	38.25	54.00	-15.75	AVG
3		7440.000	43.16	7.94	51.10	74.00	-22.90	peak
4		7440.000	37.25	7.94	45.19	54.00	-8.81	AVG
5		9920.000	47.37	9.69	57.06	74.00	-16.94	peak
6	*	9920.000	40.60	9.69	50.29	54.00	-3.71	AVG



Photographs of the test setup

Refer to Appendix - Test Setup Photos



Photographs of the EUT

Refer to Appendix - EUT Photos

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Appendix

Appendix A: 20dB Emission Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	20db EBW [MHz]
		2402	0.957
DH5	Ant1	2441	0.957
		2480	0.963
		2402	1.344
2DH5	Ant1	2441	1.281
		2480	1.281

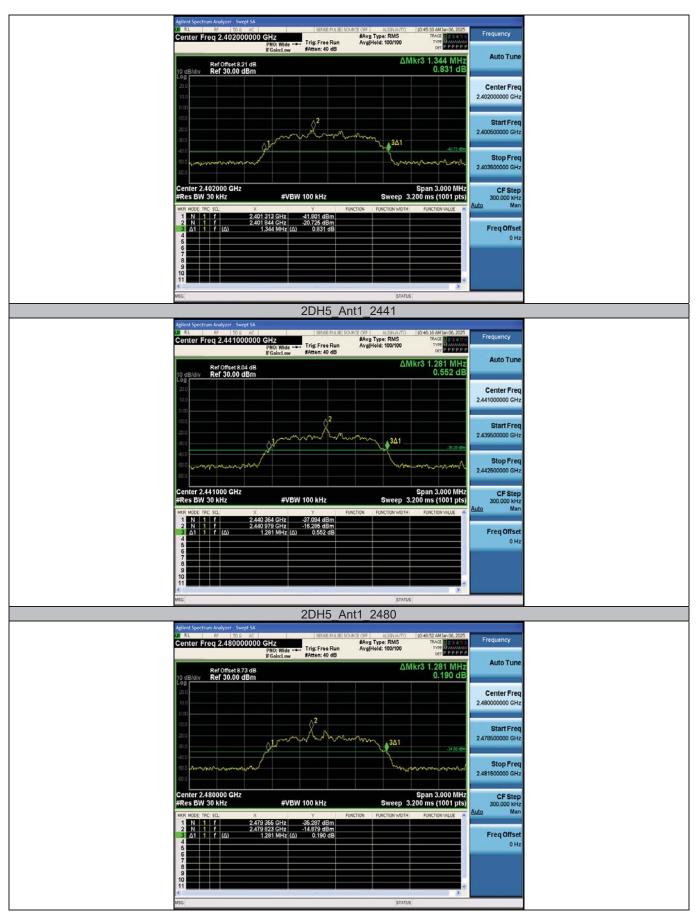


Test Graphs



Address: 101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China.Tel: 0755-88850135-1439Mobile: 131-4343-1439 (Wechat same number)Web: http://www.mtitest.cnE-mail: mti@51mti.com





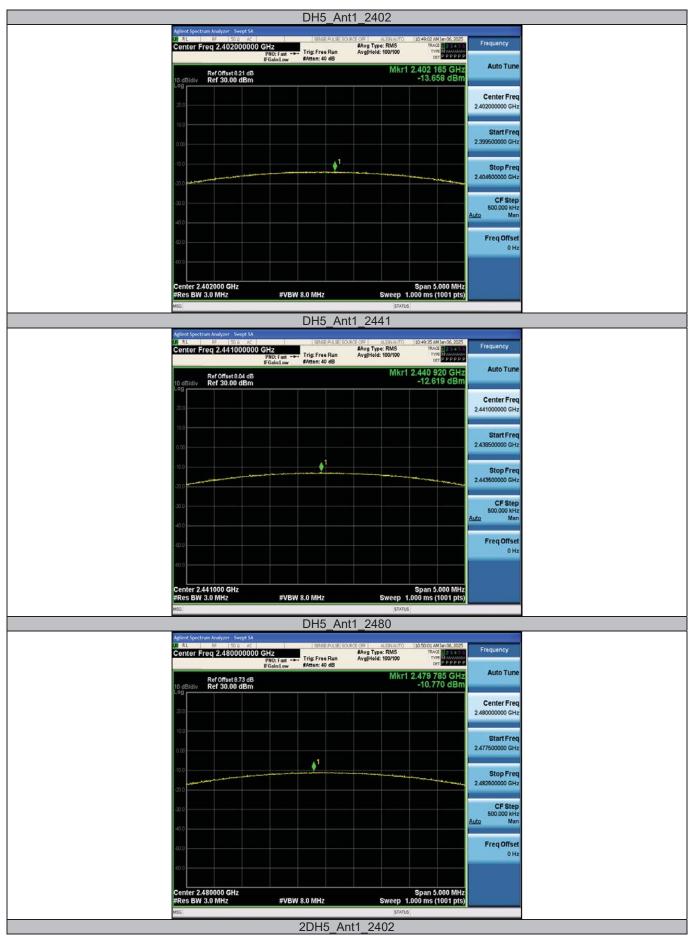


Appendix B: Maximum conducted output power

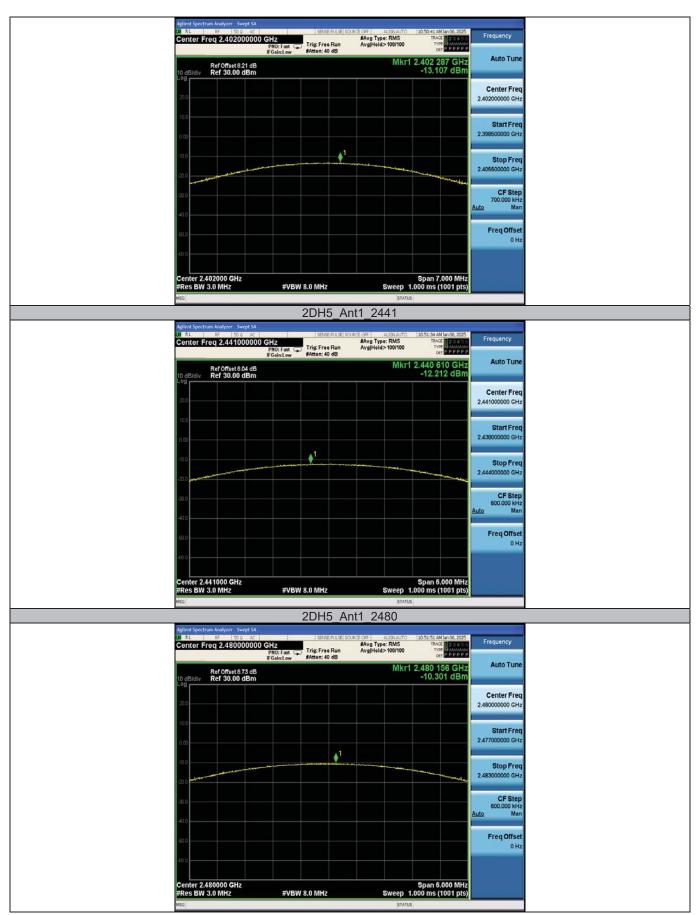
Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Limit [dBm]	Verdict
		2402	-13.66	≤30	PASS
DH5	Ant1	2441	-12.62	≤30	PASS
		2480	-10.77	≤30	PASS
		2402	-13.11	≤20.97	PASS
2DH5	Ant1	2441	-12.21	≤20.97	PASS
		2480	-10.30	≤20.97	PASS











Appendix C: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Нор	1.004	≥0.638	PASS
2DH5	Ant1	Нор	1.026	≥0.896	PASS







Appendix D: Time of occupancy

Test Result

Test Mode	Antenna	Frequency [MHz]	BurstWidth [ms]	Hops in 31.6s [Num]	Result [s]	Limit [s]	Verdict
DH1	Ant1	Нор	0.384	315	0.121	≤0.4	PASS
DH3	Ant1	Нор	1.639	161	0.264	≤0.4	PASS
DH5	Ant1	Нор	2.887	122	0.352	≤0.4	PASS
2DH1	Ant1	Нор	0.389	316	0.123	≤0.4	PASS
2DH3	Ant1	Нор	1.645	156	0.257	≤0.4	PASS
2DH5	Ant1	Нор	2.891	109	0.315	≤0.4	PASS

Notes:

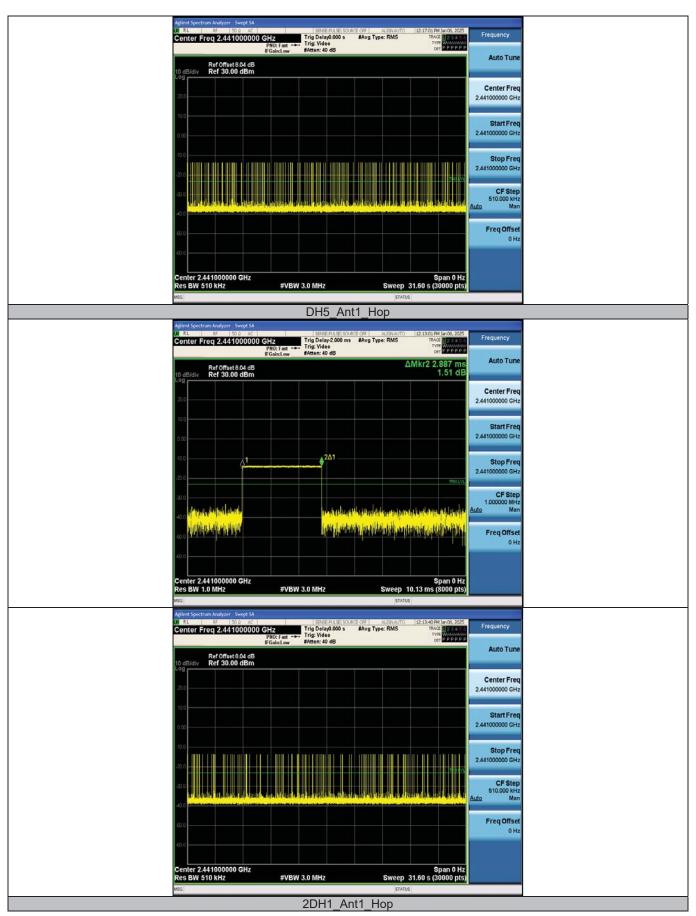
1. Period time = 0.4s * 79 = 31.6s

2. Result (Time of occupancy) = BurstWidth[ms] * Hops in 31.6s [Num]



DH1_Ant1_Hop			
Agilent Spectrum Analyzer - Swept SA 20 R.L RF 50.0 AC SPECIE SPECIE SOURCE OFF ALIGNAUTO 12:14:30 PM Jan 05, 2025	Frequency		
Center Freq 2.441000000 GHz Trig Delay-2.000 ms #Avg Type: RMS the trig PNC: Fast →→→ FrGaint.ow #Avter: 0 dB the trig Delay 2.000 ms #Avg Type: RMS the trig PNC: Fast →→ #Avter: 0 dB the trig Delay 2.000 ms #Avg Type: RMS the trig PNC: Fast →→ trig Video trig #Avg Type: RMS the trig Delay 2.000 ms #Avg Type: RMS the trig trig Video trig Delay 2.000 ms #Avg Type: RMS the trig Delay 2.000 ms #Avg Type: RMS the trig Delay 2.000 ms trig PNC: Fast →→ trig Video trig Delay 2.000 ms #Avg Type: RMS trig Video trig Delay 2.000 ms trig Del	rrequency		
A MIL-0.000.0	Auto Tune	e	
10 dB/d/v Ref 30.00 dBm -4.52 dB -4.52 dB	-		
700 m	Center Freq		
	2.441000000 GHz	z	
10.0	Start Freq	4	
0.00	2.441000000 GHz	z	
100	Stop From		
	Stop Freq 2.441000000 GHz		
	CF Step		
	1.000000 MHz Auto Man	z	
💷 o 🛛 Linder, alle de fanza and 🔄 ber út blande wordt hende stere alle alle a blande stere de fanza de			
	FreqOffset		
	0 Hz	z	
Center 2.44 1000000 GHz Span 0 Hz			
Res BW 1.0 MHz #VBW 3.0 MHz Sweep 10.13 ms (8000 pts) Usg status		-	
Agilent Spectrum Analyzer Swept SA UI RL SF S0 AL SR-66 PULKEI SOLIKIE OFF ALIGN MUTO 12-15:00 PM lands, 2025			
Compare From 2 4 4 4 0 0 0 0 0 0 0 1 Tria Daire 0 00 c Have Trias PMS TRACE DE TRACE	Frequency		
Center Fred 2/44100000 GHz Trig Veldes BANg Type Kinds Trig Veldes	Auto Tune	e	
Ref Offset8.04 dB 10 dBidly Ref 30.00 dBm Log			
	Center Freq	4	
20.0	2.441000000 GHz	z	
10.0	Start Freq		
0.00	2.441000000 GHz		
.100			
	Stop Freq 2.441000000 GHz		
and the second			
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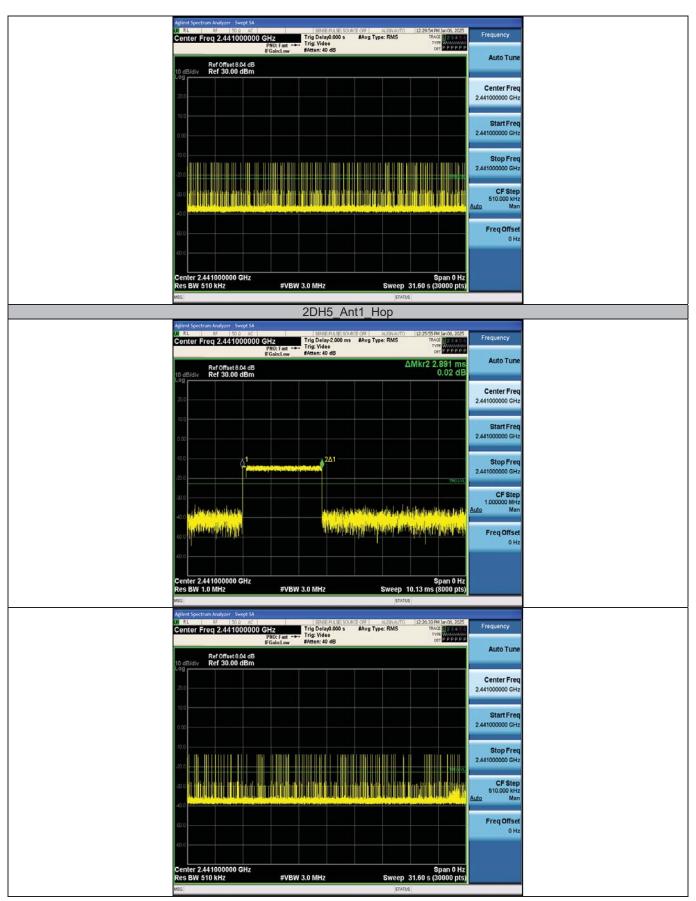






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	Res BW 1.0 MHz #VBW 3.0 MHz Sweep 10.13 ms (8000 pts)		







Appendix E: Number of hopping channels

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [Num]	Limit [Num]	Verdict
DH5	Ant1	Нор	79	≥15	PASS
2DH5	Ant1	Нор	79	≥15	PASS

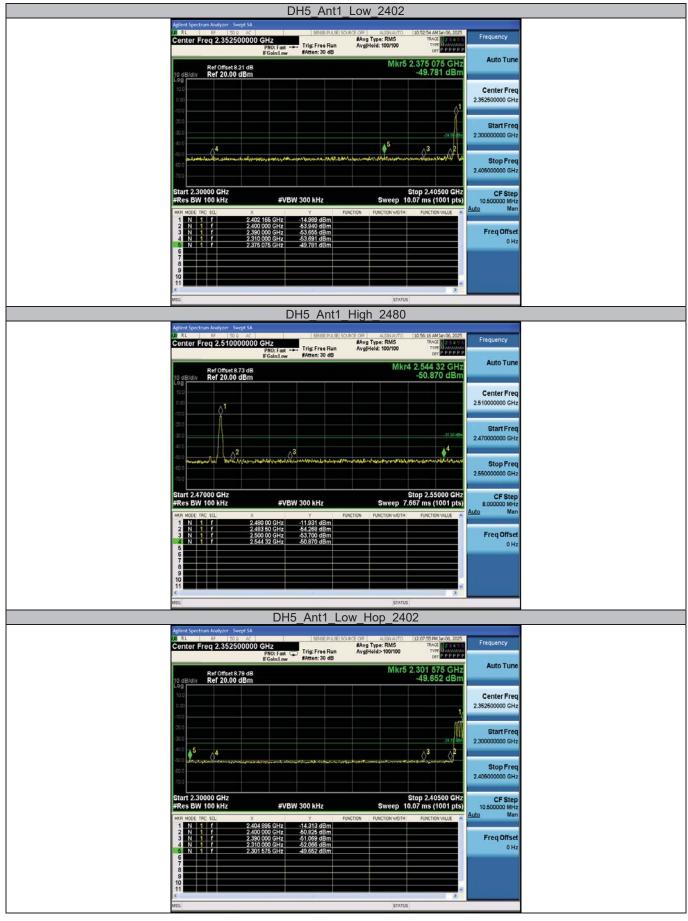


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-50 0	ELECTRIC AND A CONTRACT OF Step 8.350000 MHz Man
50 0 	Freq Offset 0 Hz
Start 2.40000 GH #Res BW 300 kHz ws3	z #VBW 300 kHz Stop 2.48350 GHz status
	2DH5_Ant1_Hop
Ağlen Şəctrum Axağız U. B. Lee Bis Center Freq 2.4	50 g AC SERVER PULSE SOURCE OFF ALIGN AUTO 12-25-11 PM Jar06, 2025
10 dB/dlv Ref 30	set 7.98 dB
20.0	Center Freq 2.441760000 GHz
0.00	Start Freq 2.400000000 GHz
-200 - 200 -	<u>ערייאיזייזייזייזייזייזייזייזייזייזייזייזיי</u>
-40 0	Auto Man Freq Offset
-60 0	0 Hz
Start 2.40000 GH #Res BW 300 KH 1955	z Stop 2.48350 GHz #VBW 300 kHz Sweep 1.133 ms (1001 pts)
Start 2.40000 GH #Res EW 300 kHz #S0	2 #VBW 300 kHz Sweep 1.133 ms (1001 pts)

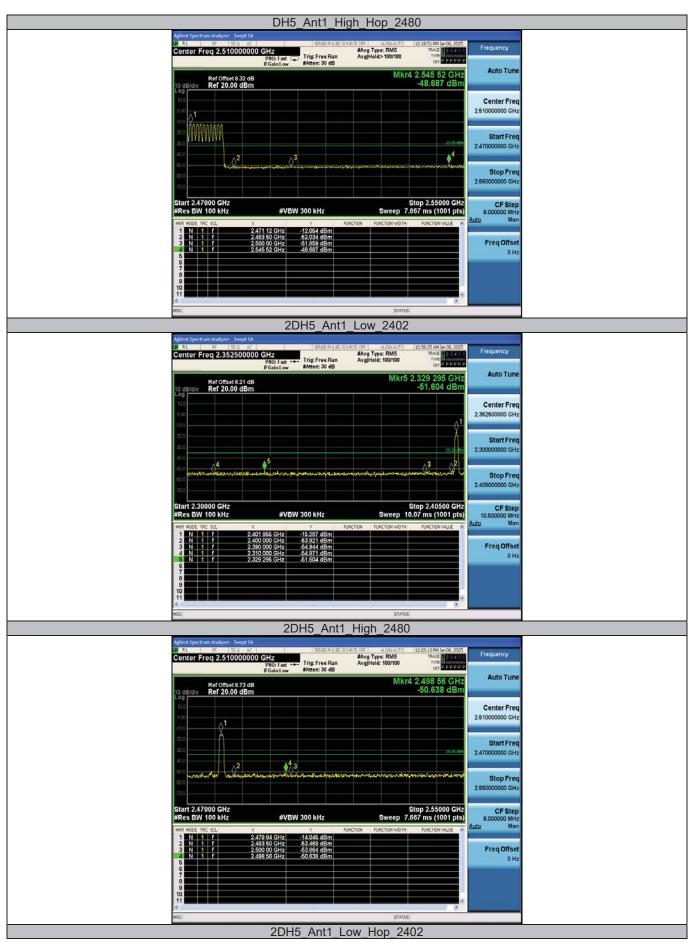


Appendix F: Band edge measurements

Test Graphs







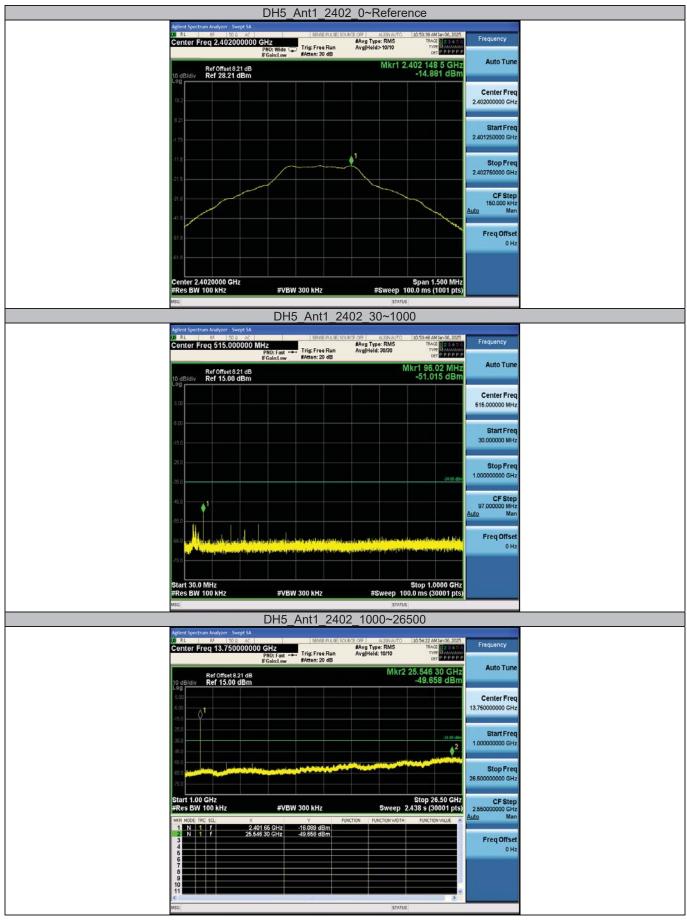


Agilent Spectrum Analyzer - Swept S	k			
Center Freq 2.3525000	COGHZ PNO: Fast Trig: Free Run IFGain:Low #Atten: 30 dB	#Avg Type: RMS Avg[Hold>100/100	12:23:17 PM Jan 06, 2025 TRACE 2:3:4:5:0 TYPE MULTINE MULTINE Det P P P P P P	Frequency
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				Center Freq 2.352500000 GHz
-10.0			1/ MR	Start Freg
40.0	↓ ⁵		 	2.300000000 GHz
400	a a a ann ann ann an ann an an an an an	e gh nan - Anlan ar 24 art		Stop Freq 2.405000000 GHz
Start 2.30000 GHz #Res BW 100 kHz	#VBW 300 kHz	0	Stop 2.40500 GHz 0.07 ms (1001 pts)	CF Step
MKR MODE TRC SCL	X Y FU	NCTION FUNCTION WOTH		10.500000 MHz Auto Man
3 N 1 F 2 4 N 1 F 2	.404 790 GHz -14,102 dBm .400 000 GHz -51,034 dBm .390 000 GHz -51,035 dBm .310 000 GHz -51,271 dBm .349 350 GHz -49,053 dBm			Freq Offset 0 Hz
6 7 8 9				
		STATUS	5 5	
100	2DH5_Ant1_Hi	gh_Hop_24	1	
Agilent Spectrum Analyzer Swept S M RL RF 500 AC Center Freq 2.5100000	SB/SEPULSE SOL	#Avg Type: RMS	12-30:30 PM Jan 06, 2025 TRACE 2234 510	Frequency
	PNO: Fast Trig: Free Run IFGain:Low #Atten: 30 dB	Avg Hold>100/100	тите Миниции сет РРРРРР 4 2.520 40 GHz	Auto Tune
Ref Offset 8.32 di 10 dB/div Ref 20.00 dBm			-49.797 dBm	Center Freq
				2.51000000 GHz
-00 / What when			-32.41 (Br	Start Freq 2.470000000 GHz
40 0 40 0		an what where a survey and	antantanan Manufanang Jawa	Stop Freq
400 0 70 0				2.55000000 GHz
Start 2.47000 GHz #Res BW 100 kHz	#VBW 300 kHz	Sweep 7.	Stop 2.55000 GHz 667 ms (1001 pts) FUNCTION VALUE	CF Step 8.000000 MHz Auto Man
1 N 1 f 2 N 1 f 3 N 1 f 4 N 1 f	2.472 96 GHz 12.406 dBm 2.483 50 GHz 52.634 dBm 2.500 00 GHz 52.166 dBm 2.520 40 GHz 49.797 dBm		Concentrative production	Freq Offset
6 6 7	2.520.40 GHz -49.797 dBm			0 Hz
8 9 10 11				
i e MGG		STATUS		

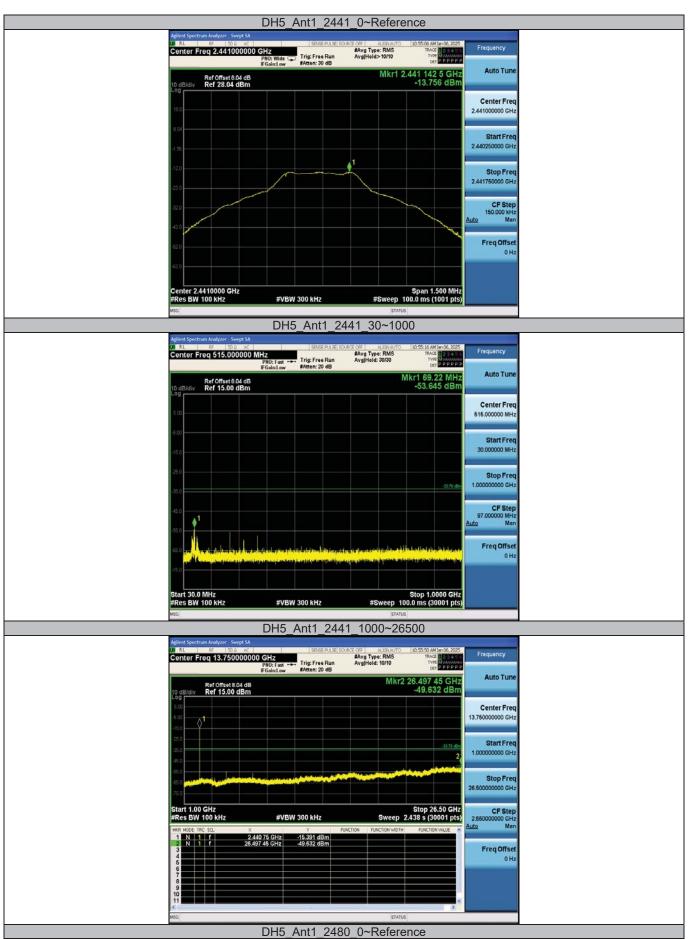


Appendix G: Conducted Spurious Emission

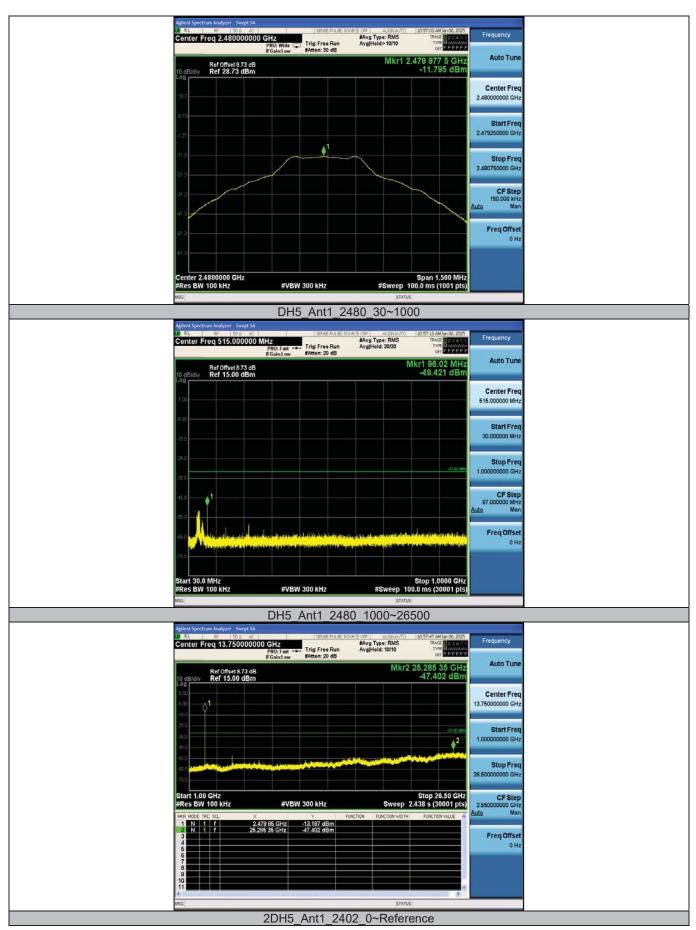
Test Graphs



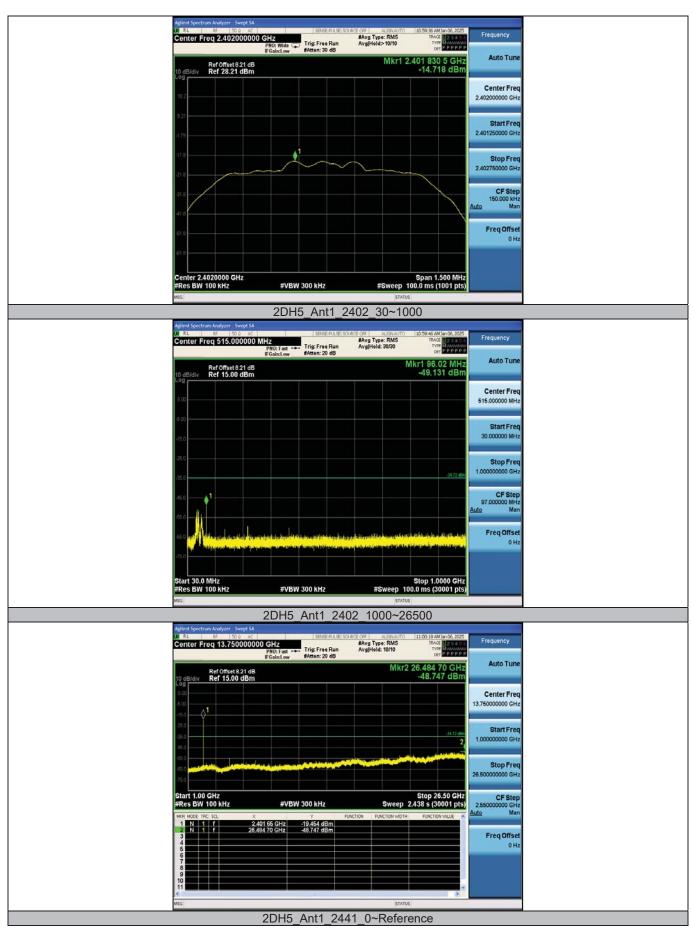




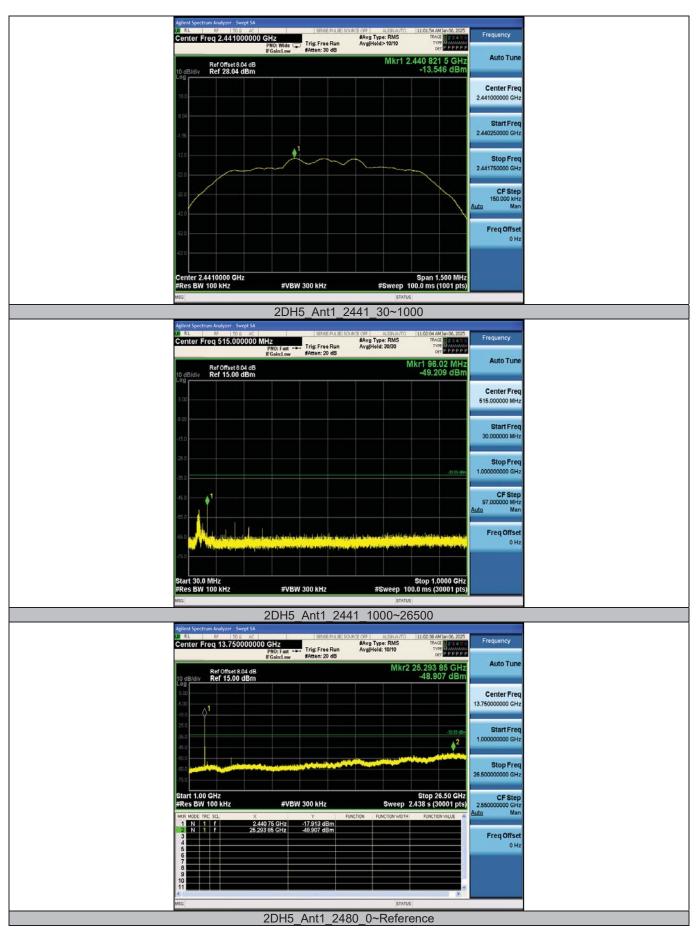




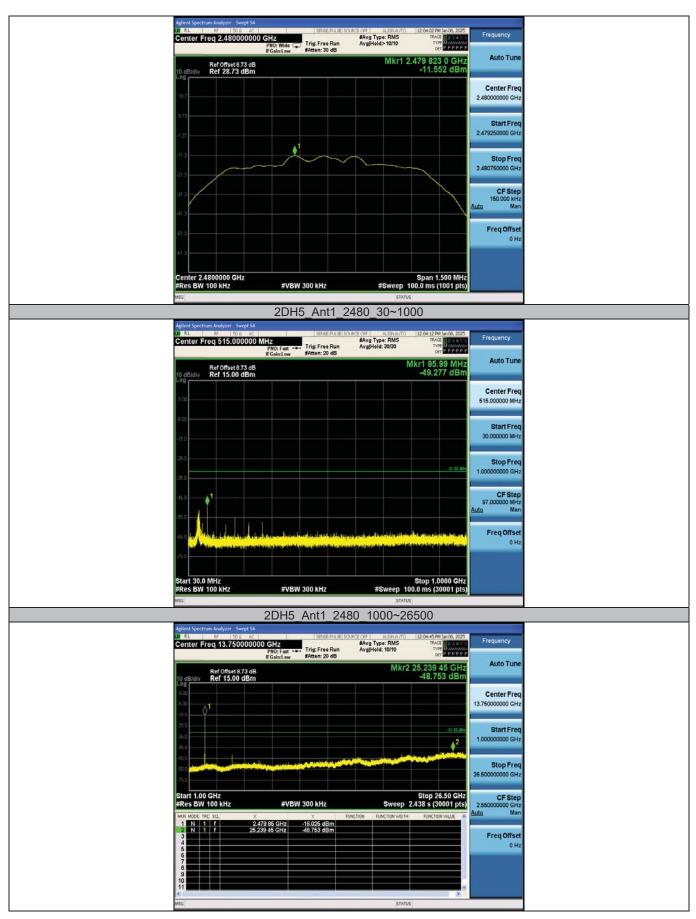












----End of Report----