

Test Report

Report No.:	MTi240606003-08E1
Date of issue:	2024-06-28
Applicant:	CG Mobile SAS
Product name:	Wireless Earphones
Model(s):	TP100, DKTWS3DNYAK, DKTWS3DNYAA
FCC ID:	2A7J2-TWST8N

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

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Test Result Certification				
Applicant: CG Mobile SAS				
Address:	39 rue de Courcelles, 75008 Paris - France			
Manufacturer:	MIA Technologies Limited			
Address:	RM 601, Building 9, No.19, Guanlan Avenue, Xikeng Community, Fucheng Street, Longhua Shenzhen, Guangdong, P.R China			
Product description				
Product name:	Wireless Earphones			
Trademark:	DKNY			
Model name:	TP100			
Series Model(s):	DKTWS3DNYAK, DKTWS3DNYAA			
Standards:	47 CFR Part 15.247			
Test Method: ANSI C63.10-2013 KDB 558074 D01 15.247 Meas Guidance v05r02				
Date of Test				
Date of test:	2024-06-20 to 2024-06-27			
Test result: Pass				

Test Engineer	:	James Qu	
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Reviewed By	•••	Dowid. Cee	
		(David Lee)	
Approved By	:	(cov chen	
		(Leon Chen)	



1 General Description

1.1 Description of the EUT

Product name:	Wireless Earphones			
Model name:	TP100			
Series Model(s):	DKTWS3DNYAK, DKTWS3DNYAA			
Model difference:	All the models are the same circuit and module, except the model name and color.			
Electrical rating:	Battery: DC 3.7V, 300mAh			
Accessories:	N/A			
Hardware version:	TP100-MA-V1.0			
Software version:	TP100-MA-V1.0			
Test sample(s) number:	MTi240606003-08S1001			
RF specification				
Bluetooth version:	V5.3			
Operating frequency range:	2402-2480MHz			
Channel number:	79			
Modulation type:	GFSK, π/4-DQPSK			
Antenna(s) gain:	2.36dBi			

1.2 Description 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
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

Address: 101, No. 7, Zone 2, XinxingIndustrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China.Tel: (86-755) 88850135-1349Fax: (86-755) 88850136Web: http://www.mtitest.cnE-mail: office@51mti.com



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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

Operation Band: 2400-2483.5 MHz

Bandwidth	Lowest Channel (LCH)	Middle Channel (MCH)	Highest Channel (HCH)	
(MHz)	(MHz)	(MHz)	(MHz)	
1	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: FCC Assist 1.0.2.2

For power setting, refer to below table.

Mode	Mode 2402MHz 2441MHz		2480MHz
GFSK	10	10	10
π/4-DQPSK	10	10	10



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							
/ / / /							
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	Occupied 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

Note: The device is a DC power supply and does not apply to conducted emissions.



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			
	Number of Hopping Frequencies Dwell Time Emissions in non-restricted frequency bands Occupied Bandwidth Maximum Conducted Output Power Channel Separation								
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 frequ	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 freq	uency bands (be	low 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

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 Occupied 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. i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j). j) Place two markers, one at the lowest frequency and the other at the highest frequency of

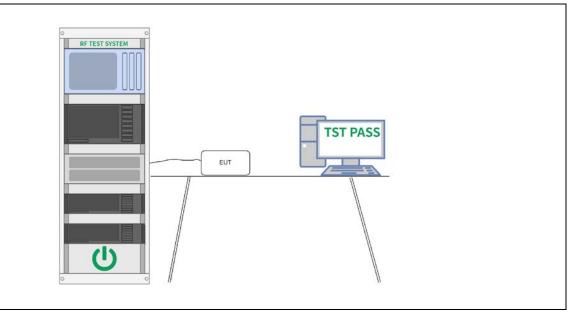


measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the
plot(s).

6.1.1 E.U.T. Operation:

Operating Environment:							
Temperature:	Temperature: 24 °C Humidity: 54 % Atmospheric Pressure: 101 kPa					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:



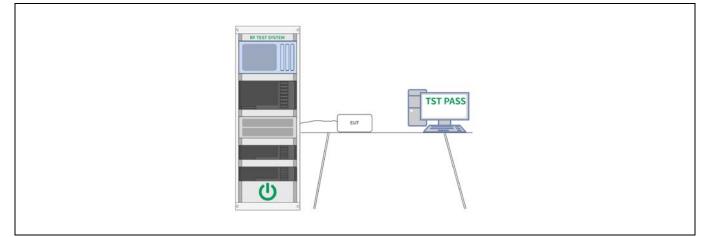
6.2 Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(1)
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 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 analyzer.

6.2.1 E.U.T. Operation:

Operating Environment:							
Temperature:	Temperature:24 °CHumidity:54 %Atmospheric Pressure:101 kPa			101 kPa			
Pre test mode:		Mode	e1, Mode2				
Final test mode: N		Mode	e1, Mode2				

6.2.2 Test Setup Diagram:



6.2.3 Test Data:



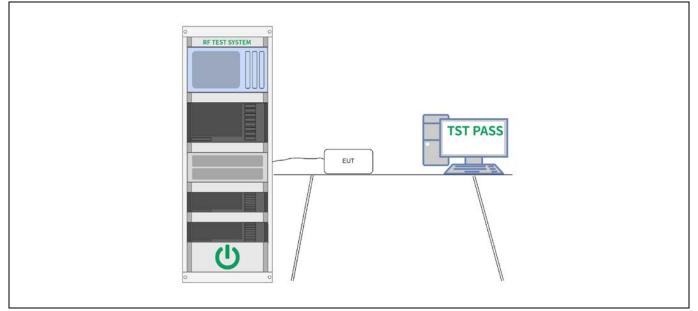
6.3 Channel Separation

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:24 °CHumidity:54 %Atmospheric Pressure:101 kPa						101 kPa	
Pre test mode: M		Mode	e1, Mode2				
Final test mode: Mod		Mode	e1, Mode2				

6.3.2 Test Setup Diagram:



6.3.3 Test Data:



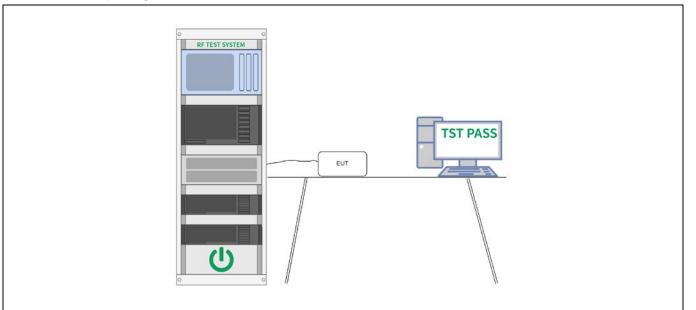
6.4 Number of Hopping Frequencies

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	Operating Environment:										
Temperature:	24 °C Humidity: 54 % Atmospheric Pressure: 101 kPa										
Pre test mode:		Mode	e1, Mode2								
Final test mode:		Mode	e1, Mode2								

6.4.2 Test Setup Diagram:



6.4.3 Test Data:



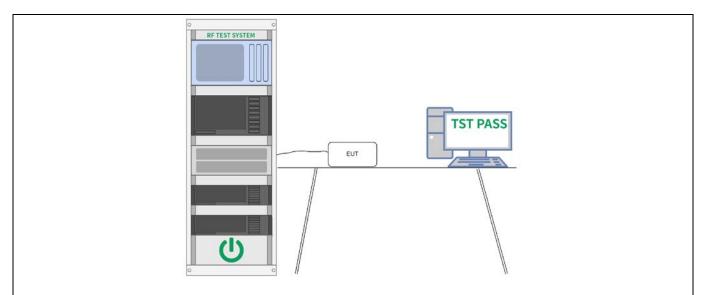
6.5 Dwell Time

Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit:	Refer to 47 CFR 15.247(a)(1)(iii), 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 7.8.4 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 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) = (number of hops on spectrum analyzer) × (period specified in the requirements, analyzer sweep time) 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 (data rate, modulation, the requirements. If the 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 (data rate, modulation format

6.5.1 E.U.T. Operation:

Operating Envi	Operating Environment:									
Temperature:	24 °C	24 °C Humidity: 54 % Atmospheric Pressure: 101 kPa				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:



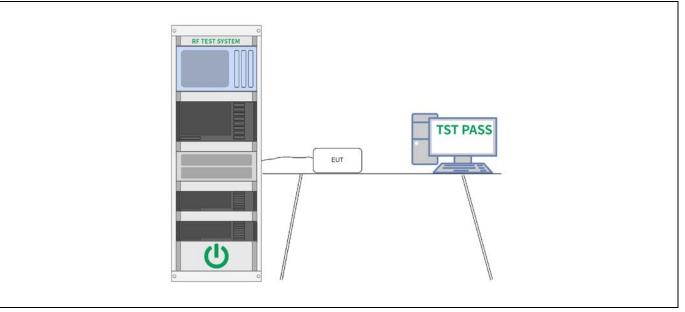
6.6 RF conducted spurious emissions and band edge measurement

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	Operating Environment:									
Temperature:	Temperature:24 °CHumidity:54 %Atmospheric Pressure:101 kPa									
Pre test mode:		Mode	e1, Mode2							
Final test mode	9:	Mode	e1, Mode2							

6.6.2 Test Setup Diagram:



6.6.3 Test Data:



6.7 Band edge emissions (Radiated)

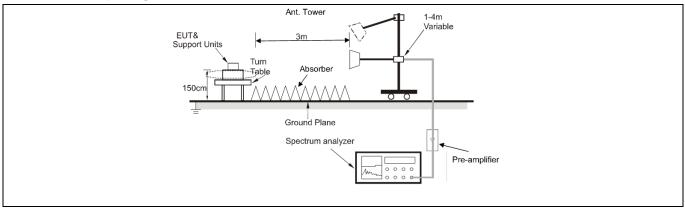
Test Requirement:	restricted bands, as de	7(d), In addition, radiated em fined in § 15.205(a), must als s specified in § 15.209(a)(se	so comply with the
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measuremen t distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	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 wi sections of this part, e. In the emission table a The emission limits sh employing a CISPR qu kHz, 110–490 kHz and	in paragraph (g), fundamenta perating under this section sh 2 MHz, 76-88 MHz, 174-216 thin 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 employin	all not be located in the MHz or 470-806 MHz. s permitted under other as at the band edges. ased on measurements the frequency bands 9–90 emission limits in these
Test Method:	ANSI C63.10-2013 see KDB 558074 D01 15.2	ction 6.10 47 Meas Guidance v05r02	
Procedure:	ANSI C63.10-2013 see	ction 6.10.5.2	

6.7.1 E.U.T. Operation:

Operating Env	Operating Environment:									
Temperature:	23.7 °C		Humidity:	59 %	Atmospheric Pressure:	100 kPa				
Pre test mode:		Mode	e1, Mode2							
Final test mode	e:			re-test mode w ded in the repo	vere tested, only the data only the data on the data of the data o	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 /	Mode2 / Polarization: Horizontal / CH: L										
	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	_	
	1		2310.000	51.97	-12.92	39.05	74.00	-34.95	peak	-	
	2		2310.000	42.03	-12.92	29.11	54.00	-24.89	AVG	-	
	3		2390.000	63.21	-12.49	50.72	74.00	-23.28	peak	-	
	4	*	2390.000	52.99	-12.49	40.50	54.00	-13.50	AVG	-	

Mode2 / Polarization: Vertical / CH: L

;Z /	FUIAII	zalio	n. ventical/	CH. L						
	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	_
	1		2310.000	51.60	-12.92	38.68	74.00	-35.32	peak	
	2		2310.000	41.96	-12.92	29.04	54.00	-24.96	AVG	
	3		2390.000	57.74	-12.49	45.25	74.00	-28.75	peak	_
	4	*	2390.000	48.30	-12.49	35.81	54.00	-18.19	AVG	_



*

2 3

4

2483.500

2500.000

2500.000

56.47

59.86

50.03

-12.50

-12.41

-12.41

43.97

47.45

37.62

AVG

peak AVG

54.00 -10.03

74.00 -26.55

54.00 -16.38

No	. N	Лk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1			2483.500	71.33	-12.50	58.83	74.00	-15.17	peak
2	, ,	r	2483.500	63.28	-12.50	50.78	54.00	-3.22	AVG
3	;		2500.000	64.62	-12.41	52.21	74.00	-21.79	peak
4			2500.000	55.30	-12.41	42.89	54.00	-11.11	AVG
/ Pola	riza		n: Vertical /	СН. Н					
			n: Vertical /	Reading	Correct	Measure-	Limit		
: / Pola No			Freq.	Reading Level	Factor	ment	Limit	Over	
				Reading			Limit dBuV/m	Over	Detector



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)(se	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 wi sections of this part, e. In the emission table a The emission limits sh employing a CISPR qu kHz, 110–490 kHz and	in paragraph (g), fundamenta perating under this section sh 2 MHz, 76-88 MHz, 174-216 thin 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 employin	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 see KDB 558074 D01 15.2	ction 6.6.4 47 Meas Guidance v05r02	
Procedure:	ANSI C63.10-2013 see	ction 6.6.4	

6.8.1 E.U.T. Operation:

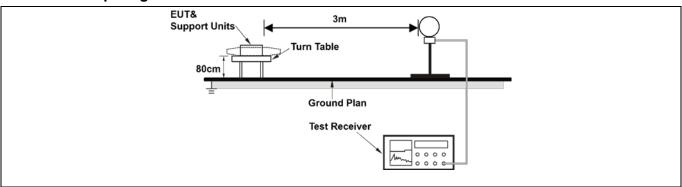
Operating Environment:								
Temperature:	ature: 23.7 °C		Humidity:	58 %	Atmospheric Pressure:	100 kPa		
Pre test mode:	Mode	e1, Mode2						
Final test mode	All of the listed pre-test mode were tested, only the data of the worst mode (Mode2) is recorded in the report							
Nata								

Note:

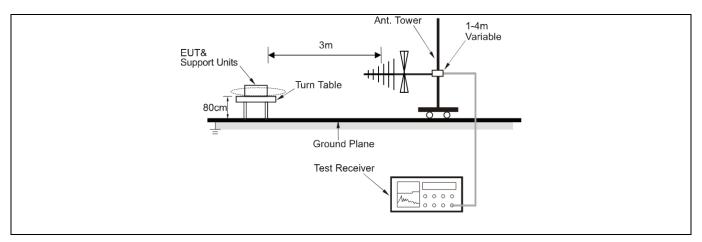
The amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported.

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:

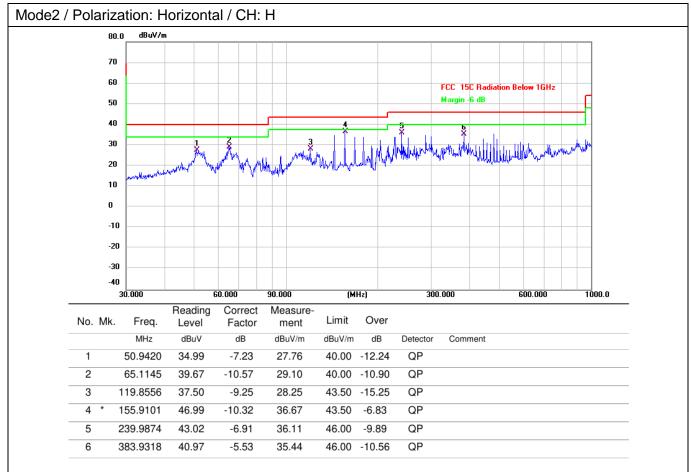






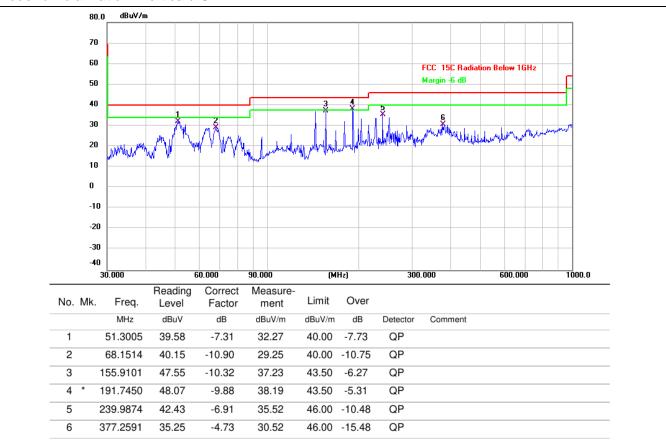


6.8.3 Test Data:





Mode2 / Polarization: Vertical / CH: H





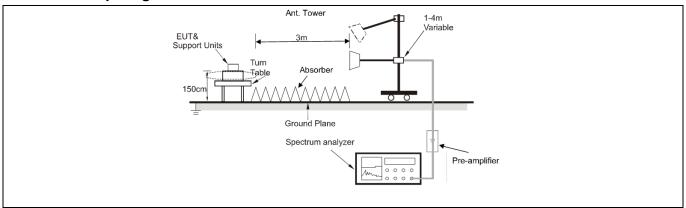
6.9 Radiated emissions (above 1GHz)

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 intentional radiators operating under this section shall not be loc frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470- However, operation within these frequency bands is permitted u sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band The emission limits shown in the above table are based on mea employing a CISPR quasi-peak detector except for the frequence kHz, 110–490 kHz and above 1000 MHz. Radiated emission limit three bands are based on measurements employing an average						
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				

6.9.1 E.U.T. Operation:

Operating Environment:									
Temperature:	23.7 °C		Humidity:	58 %	Atmospheric Pressure:	100 kPa			
Pre test mode:	Mode	Mode1, Mode2							
Final test mode:			All of the listed pre-test mode were tested, only the data of the worst mode (Mode2) is recorded in the report						
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 /	Mode2 / Polarization: Horizontal / 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	52.32	-7.70	44.62	74.00	-29.38	peak	_	
	2		4804.000	47.85	-7.70	40.15	54.00	-13.85	AVG	_	
	3		7206.000	46.44	0.84	47.28	74.00	-26.72	peak	_	
	4		7206.000	42.44	0.84	43.28	54.00	-10.72	AVG	_	
	5		9608.000	48.37	1.81	50.18	74.00	-23.82	peak		
	6	*	9608.000	44.42	1.81	46.23	54.00	-7.77	AVG		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4804.000	49.41	-7.70	41.71	74.00	-32.29	peak
2		4804.000	44.85	-7.70	37.15	54.00	-16.85	AVG
3		7206.000	46.78	0.84	47.62	74.00	-26.38	peak
4		7206.000	43.31	0.84	44.15	54.00	-9.85	AVG
5		9608.000	48.98	1.81	50.79	74.00	-23.21	peak
6	*	9608.000	44.44	1.81	46.25	54.00	-7.75	AVG



Mode2 /	Mode2 / Polarization: Horizontal / CH: M										
	No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
-			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	_	
	1		4882.000	49.86	-7.84	42.02	74.00	-31.98	peak		
	2		4882.000	47.05	-7.84	39.21	54.00	-14.79	AVG	_	
	3		7323.000	47.05	0.61	47.66	74.00	-26.34	peak	-	
	4		7323.000	42.51	0.61	43.12	54.00	-10.88	AVG	_	
	5		9764.000	47.45	2.61	50.06	74.00	-23.94	peak	-	
	6	*	9764.000	43.67	2.61	46.28	54.00	-7.72	AVG	_	

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detecto
1		4882.000	49.97	-7.84	42.13	74.00	-31.87	peak
2		4882.000	47.05	-7.84	39.21	54.00	-14.79	AVG
3		7323.000	46.30	0.61	46.91	74.00	-27.09	peak
4		7323.000	41.54	0.61	42.15	54.00	-11.85	AVG
5		9764.000	47.17	2.61	49.78	74.00	-24.22	peak
6	*	9764.000	43.64	2.61	46.25	54.00	-7.75	AVG



Mada2 /	Mode2 / Polarization: Horizontal / CH: H										
wodez /											
	No. M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector			
	1	4960.000	53.44	-7.73	45.71	74.00	-28.29	peak			
	2	4960.000	47.88	-7.73	40.15	54.00	-13.85	AVG	_		
	3	7440.000	47.22	0.78	48.00	74.00	-26.00	peak	_		
	4	7440.000	42.48	0.78	43.26	54.00	-10.74	AVG			
	5	9920.000	50.78	2.47	53.25	74.00	-20.75	peak	-		
	6 *	9920.000	46.80	2.47	49.27	54.00	-4.73	AVG	-		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4960.000	49.86	-7.73	42.13	74.00	-31.87	peak
2		4960.000	46.87	-7.73	39.14	54.00	-14.86	AVG
3		7440.000	47.09	0.78	47.87	74.00	-26.13	peak
4		7440.000	41.59	0.78	42.37	54.00	-11.63	AVG
5		9920.000	47.96	2.47	50.43	74.00	-23.57	peak
6	*	9920.000	43.69	2.47	46.16	54.00	-7.84	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

Address: 101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China.Tel: (86-755) 88850135-1349Fax: (86-755) 88850136Web: http://www.mtitest.cnE-mail: office@51mti.com



Appendix A: 20dB Emission Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	20db EBW [MHz]
		2402	0.966
DH5	Ant1	2441	0.954
		2480	0.954
		2402	1.305
2DH5	Ant1	2441	1.308
		2480	1.284



Test Graphs







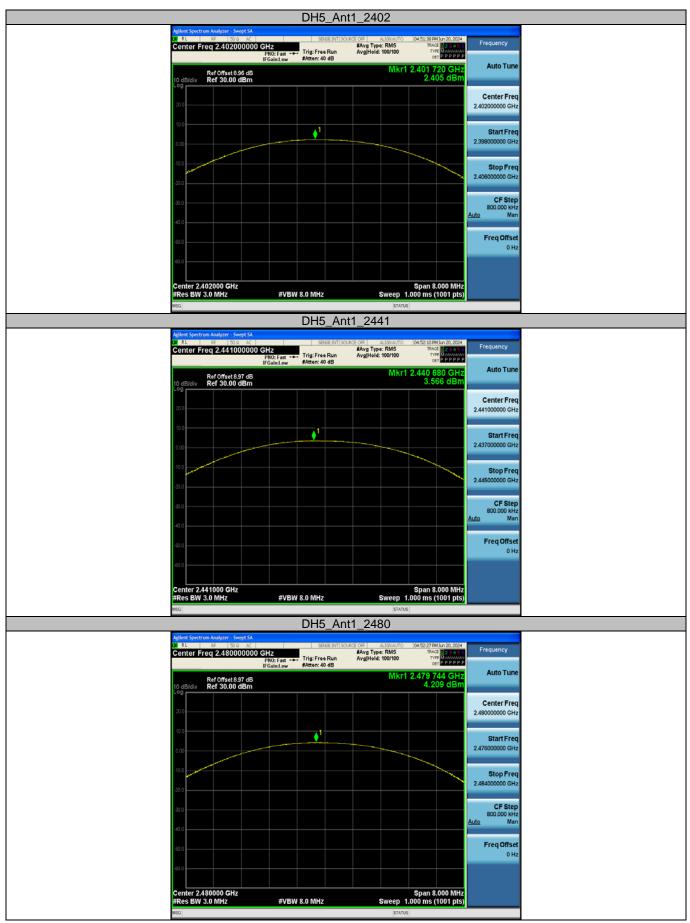


Appendix B: Maximum conducted output power

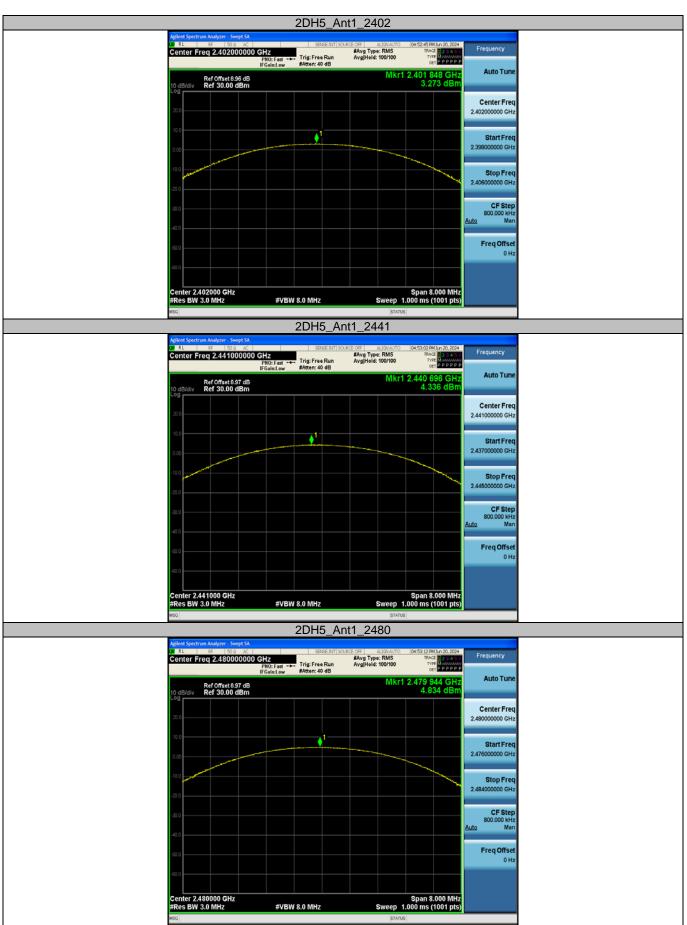
Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Limit [dBm]	Verdict
		2402	2.41	≤30	PASS
DH5	Ant1	2441	3.57	≤30	PASS
		2480	4.21	≤30	PASS
		2402	3.27	≤20.97	PASS
2DH5	Ant1	2441	4.34	≤20.97	PASS
		2480	4.83	≤20.97	PASS











Appendix C: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Нор	1.002	≥0.966	PASS
2DH5	Ant1	Нор	0.998	≥0.872	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	0.381	317	0.121	≤0.4	PASS
DH3	Ant1	Нор	1.637	155	0.254	≤0.4	PASS
DH5	Ant1	Нор	2.885	100	0.289	≤0.4	PASS
2DH1	Ant1	Нор	0.390	315	0.123	≤0.4	PASS
2DH3	Ant1	Нор	1.642	154	0.253	≤0.4	PASS
2DH5	Ant1	Нор	2.889	114	0.329	≤0.4	PASS

Notes:

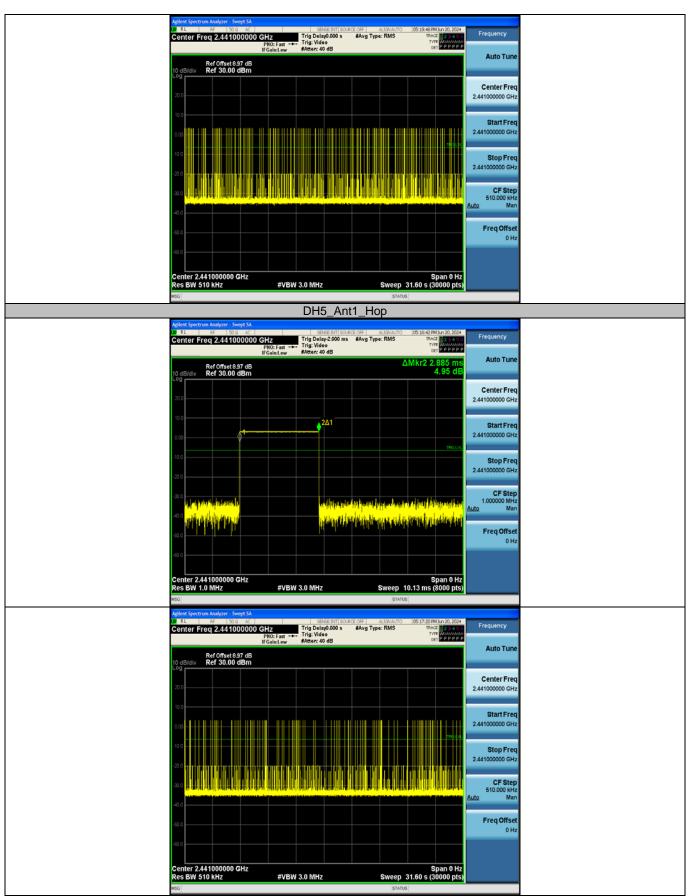
1. Period time = 0.4s * 79 = 31.6s

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



 DH1_Ant1_Hop	
Aglient Spectrum Analyzer - Swept SA. SPIGE NT SOLREG OFF 8113718/070 00517531943.20.2024 8 R 8 50.0 col 10 00517531943.2020 00 00517531943.2020	Frequency
Center Freq 2.441000000 GHz Trig Delay 2000 ms #Avg Type: RMS Troc Base so PRO: Fast ++ Broand.twn #Atten: 40 dB terminal for a solution of the solution of	
10 dB/div Ref 30.00 dBm 6.11 dB	Auto Tune
20.0	Center Freq 2.441000000 GHz
201	Start Freq
0.00 000 000 000 000 000 000 000 000 00	2.44100000 GHz Stop Freq
-20.0	2.441000000 GHz
and the second later all the second	CF Step 1.00000 MHz <u>Auto</u> Man
	Freq Offset 0 Hz
Center 2.44 1000000 GHz Span 0 Hz Res BW 1.0 MHz #VBW 3.0 MHz Sweep 10.13 ms (8000 pts)	
 1950	Frequency
Center Freq 2.441000000 GHz PNC: Fast →→ FGain.tow Reference #Atten: 40 dB Trig: Video #Atten: 40 dB	Auto Tune
	Center Freq
100	2.44100000 GHz Start Freq
0.00	2.441000000 GHz Stop Freq
	2.441000000 GHz
- 20 - 20 - 20 - 20 - 20 - 20 - 20 - 20	510.000 kHz <u>Auto</u> Man
500	Freq Offset 0 Hz
Center 2.441000000 GHz Span 0 Hz Res BW 510 kHz #VBW 3.0 MHz Sweep 31.60 s (30000 pts)	
BEG [STATUS] DH3_Ant1_Hop	
Aglient Spectrum Analyzer - Swept SA Specient'i SQUEIC OFF MUSHUTTO 0518:10.094.3m.20, 2004 R R Specient'i SQUEIC OFF MUSHUTTO 0518:10.094.3m.20, 2004	Frequency
Center Fred 2.441000000 GH2 Trag strates (FG project as the strate	Auto Turne
	Center Freq 2.44100000 GHz
100 201	StartFreq 2.44100000 GHz
1000	Stop Freq
20.0	2.44100000 GHz
 Alexandre president et al. Alexandre president et al.	1.000000 MHz Auto Man Freq Offset
60.0	0 Hz
Center 2.441000000 GHz Span 0 Hz Res BW 1.0 MHz #VBW 3.0 MHz Sweep 10.13 ms (8000 pts) ISO ISTATUS	



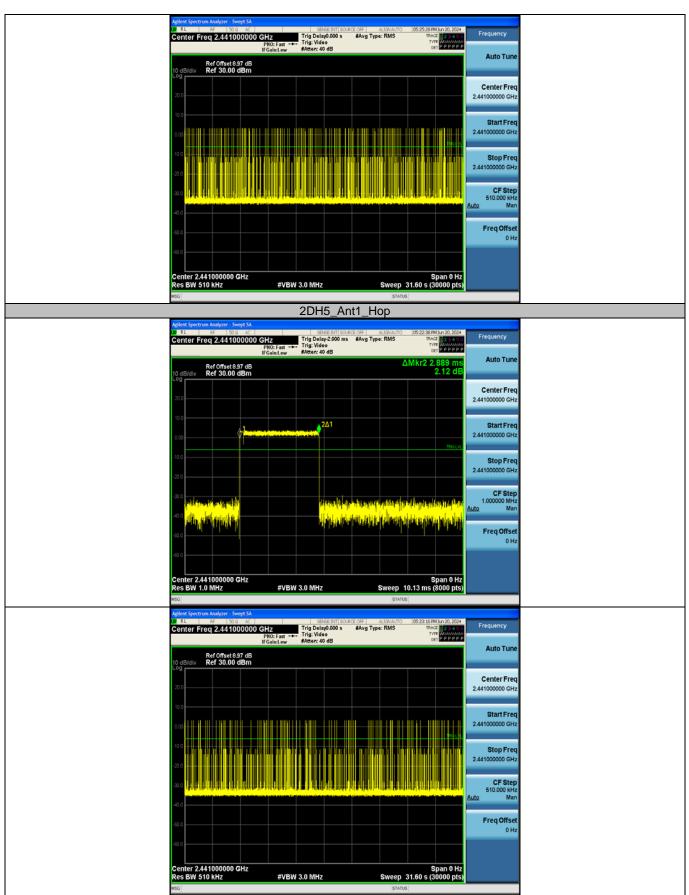


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2DH1 .	Ant1_Hop		
Agilent Spectrum Analyzer - Swept SA 00 RL RF 50 0 AC SENSERVT	SOURCE OFF ALIGN AUTO 05:23:45 PM Jun 20, 2024		
Center Freq 2.441000000 GHz PN0: Fast	Oms #Avg Type: RMS TRACE 23450 TYPE CET PPPPP	Frequency	
Ref Offset 8.97 dB 10 dB/div Ref 30.00 dBm	ΔMkr2 390.0 μs 5.93 dB	Auto Tune	
Log		Center Freq	
200		2.441000000 GHz	
2Δ1		Start Freq 2.441000000 GHz	
	TROLVL		
		Stop Freq 2.441000000 GHz	
200		CF Step	
and differentiate Header in a statistical stat	nia policy na policie de la construir de la forma de la policie de la construir de la construir de la construir	1.000000 MHz Auto Man	
	nelse et he ste state fan he	Freq Offset	
40.0		0 Hz	
Center 2.441000000 GHz Res BW 1.0 MHz #VBW 3.0 MHz	Span 0 Hz Sweep 10.13 ms (8000 pts)		
MSG Agilent Spectrum Analyzer - Swept SA	STATUS		
DI RL RF 50.0 AC SERVICE INT Center Freq 2.441000000 GHz Trig Delay0.000 Trig Delay0.000 Trig Delay0.000	TYPE CONTINUES	Frequency	
IFGain:Low #Atten: 40 dB	DETPPPP	Auto Tune	
Ref Offset8.97 dB 10 dB/div Ref 30.00 dBm			
20.0		Center Freq 2.441000000 GHz	
10.0		Start Freq	
0.00		2.441000000 GHz	
-100		Stop Freq	
-20.0		2.441000000 GHz	
		CF Step 510.000 kHz Auto Man	
-40.0			
-50.0		Freq Offset 0 Hz	
40.0			
Center 2.441000000 GHz	Span 0 Hz		
Res BW 510 kHz #VBW 3.0 MHz	Sweep 31.60 s (30000 pts)		
2DH3_/ Agilent Spectrum Analyzer - Swept SA	Ant1_Hop		
01 RL RF 50.0 AC SENSE INT Center Freg 2,441000000 GHz Trig Delay-2.00	SOLRCE OFF ALIGNAUTO 05:24:51 PM Jun 20, 2024 D ms #Avg Type: RMS TRACE 23 4 4 6 6 TYPE	Frequency	
IFGain:Low #Atten: 40 dB	DETPPPP	Auto Tune	
Ref Offset8.97 dB 10 dB/div Ref 30.00 dBm Log	∆Mkr2 1.642 ms 0.18 dB		
20.0		Center Freq 2.441000000 GHz	
100 A1 A2A1		Start Eron	
0.00 A 1 2 2 1		Start Freq 2.441000000 GHz	
.10.0	TROLVL	Stop Freq	
-20.0		2.441000000 GHz	
	tekin <mark>Alan baratari dan keristakan dari dalah dari bala</mark> tar	CF Step 1.000000 MHz	
	ter and stills are produced as well for second	<u>Auto</u> Man	
-60.0		Freq Offset 0 Hz	
-60.0			
Center 2.441000000 GHz	Span 0 Hz		
Res BW 1.0 MHz #VBW 3.0 MHz	Sweep 10.13 ms (8000 pts) status		







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



DH5_Ant1_Hop	
Allert Systemu Aulyzer - Swyt SA 500 er Act SR0ex11 SOLRCE CFE 2100 UUTO 051621 FH 3x 2x 2x RL SR0ex11 SOLRCE CFE 2100 UUTO 051621 FH 3x 2x 2x Conter Freq 2.441750000 GHz Fast + Trig: Free Run AvgType: RMS 1000 H2 2x 2x PR0: Fast + Frei Statt + Free Run AvgType: RMS 1000 H2 2x 2x	
10 dB/dlv Ref 30.00 dBm	Auto Tune Center Freq
	2.441750000 GHz Start Freq
	2.40000000 GHz Stop Freq
	2.48350000 GHz CF Step 8.350000 MHz
	Auto Man Freq Offset 0 Hz
500 Storp 2.48350 GHz Start 2.40000 GHz Storp 2.48350 GHz	
#Res BW 300 kHz #VBW 300 kHz Sweep 1.133 ms (1001 pts) MSG Status	
2DH5_Ant1_Hop	
Agilent Spectrum Analyzer - Swept SA	
RL RF S00 - AC SENSE OFF ALIONANTO 0522:17943Ar 20:204 Center Freq 2.441750000 CHz: PR0:Fast	requency
10 dB/dlv Ref 30.00 dBm	Auto Tune Center Freg
	2.441750000 GHz
000 - AMAMANAMANANA MANANANANANANANANANANANAN	2.40000000 GHz
	Stop Freq 2.483500000 GHz CF Step
40.0	8.350000 MHz <u>Auto</u> Man
	Freq Offset 0 Hz
Start 2.40000 GHz Stop 2.48350 GHz #Res BW 300 kHz Sweep 1.133 ms (1001 pts)	
MSG STATUS	



Appendix F: Band edge measurements

Test Graphs



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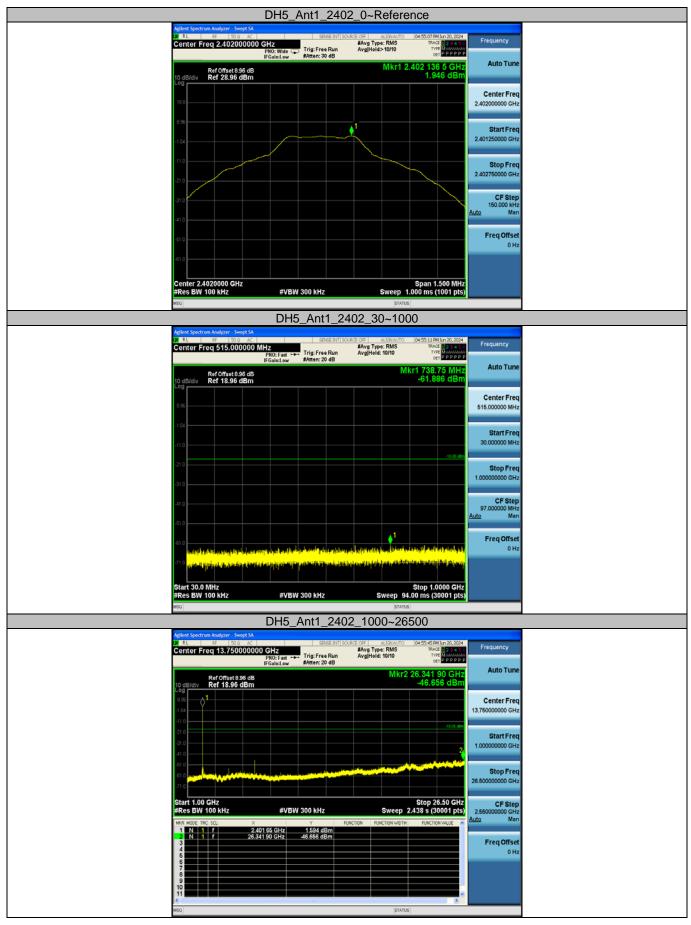


Agilent Spectrum Analyzer - Swept SA RL RF 50 R AC Start Freq 2.300000000 GHz	SENSE:INT SOURCE OFF ALIGNAUTO #Avg Type: RMS	05:21:22 PM Jun 20, 2024	Frequency	
DNO: East Ing:	Free Run Avg Hold>100/100 n: 30 dB	TYPE MUMUUUU DET P P P P P		
Ref Offset 8.9 dB 10 dB/div Ref 20.00 dBm	Mkr5	2.399 120 GHz -36.929 dBm	Auto Tune	
			Center Freg	
0.00		2	352500000 GHz	
-10.0		-20.45 abr	Start Freq	
-30.0		6.A	300000000 GHz	
-40.0 -60.0 proverties proverties of the strand and		and march		
-60.0		2.	Stop Freq 405000000 GHz	
Start 2.30000 GHz		Stop 2.40500 GHz	05.0112	
#Res BW 100 kHz #VBW 300 F	KHz Sweep 1	0.07 ms (1001 pts)	CF Step 10.500000 MHz 2 Man	
MKR MODE TRC SCL X Y 1 N 1 f 2.404 160 GHz -0.45 2 N 1 f 2.400 000 GHz -39.67	FUNCTION FUNCTION WOTH	FUNCTION VALUE		
1 N 1 f 2.404 160 GHz -0.45 2 N 1 f 2.400 000 GHz -398 70 3 N 1 f 2.380 000 GHz -50.68 4 N 1 f 2.390 000 GHz -50.68 5 N 1 f 2.390 100 GHz -51.14 6 N 1 f 2.399 120 GHz -51.45	5 dBm 1 dBm 6 dBm 8 dBm 9 dBm		Freq Offset 0 Hz	
5 N 1 f 2.399 120 GHz -36.92 6 7	5 UD/II			
8 9 10				
		>		
	status			
Agilent Spectrum Analyzer - Swept SA	nt1_High_Hop_24			
24 RL RF 50 2 AC Start Freq 2.470000000 GHz	SENSE:INT SOURCE OFF ALIGN AUTO #Avg Type: RMS Free Run Avg Hold>100/100		Frequency	
IFGain:Low #Atte	n: 30 dB	туле Милини сет Р Р Р Р Р Р Р 4 2.483 52 GHz	Auto Tune	
Ref Offset 8.97 dB 10 dB/div Ref 20.00 dBm	WIKI	-44.692 dBm		
10.0 1			Center Freq	
-100			510000000 GHz	
-20.0		-17 29 dBm	Start Freq	
4		2.	470000000 GHz	
50.0 marsharton water water			Stop Freq	
-70.0		2.	55000000 GHz	
Start 2.47000 GHz #Res BW 100 kHz #VBW 300 H	/Hz Swoop Z	Stop 2.55000 GHz .667 ms (1001 pts)	CF Step	
MKR MODE TRC SOL Y	EINCTION EINCTION MOTH	Auto-	8.000000 MHz 2 Man	
1 N 1 f 2.471 12 GHz 2.71 2 N 1 f 2.483 50 GHz 44 69 3 N 1 f 2.500 GHz 44 69 4 N 1 f 2.483 52 GHz 44 69	2 dBm 2 dBm 0 dBm 2 dBm		Freq Offset	
3 N 1 f 2.500 00 GHz 49.66 4 N 1 f 2.483 52 GHz 44.69 5	2 dBm		0 Hz	
8				
10 11				
K MSG	STATUS			



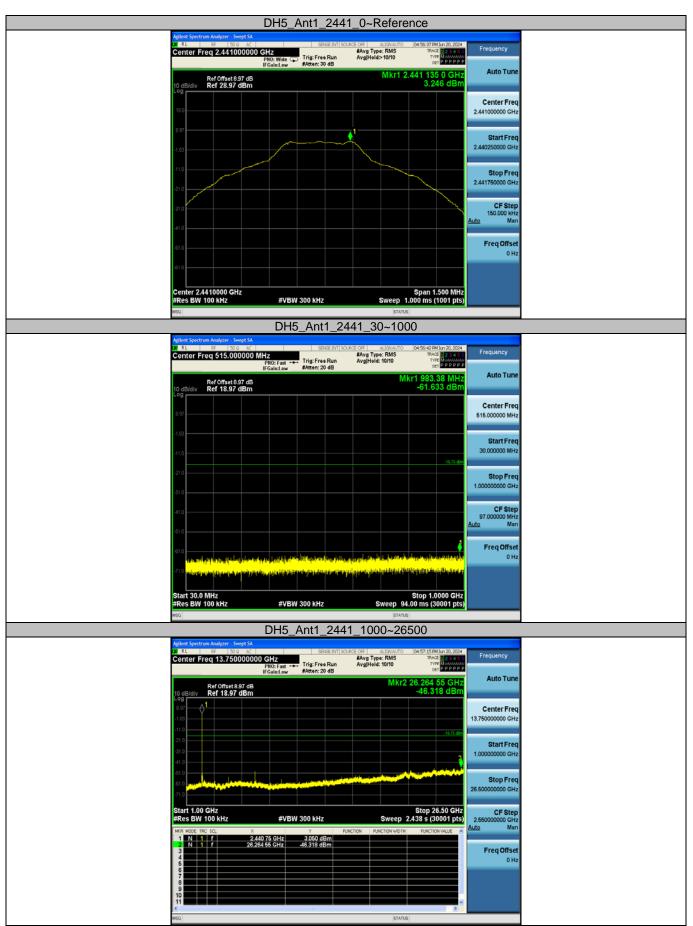
Appendix G: Conducted Spurious Emission

Test Graphs



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----End of Report----