

TEST REPORT

WSET

WSET

WSET

FCC ID: 2ADYY-KM7

Product: Mobile Phone

WSET

W5 CT

Model No.: KM7

Trade Mark: TECNO

Report No.: WSCT-ANAB-R&E250400030A-BT

Issued Date: 16 May 2025

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Issued for:

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TECNO MOBILE LIMITED

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

WSET

Issued By:

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World Standardization Certification & Testing Group(Shenzhen) Co.,Ltd. Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China

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深圳世标检测认证股份有限公司 World Standardization Certification& Testing Group(Shenzhen) Co.,Ltd

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Report No.: WSCT-ANAB-R&E250400030A-BT





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Test Certification

WSET Product: Mobile Phone

Model No.: KM7

W5CT

Additional **TECNO** Model:

TECNO MOBILE LIMITED

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN Applicant:

MEI STREET FOTAN NT HONGKONG

TECNO MOBILE LIMITED

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN Manufacturer:

MEI STREET FOTAN NT HONGKONG

Date of Test: 09 April 2025 to 16 May 2025

Applicable FCC CFR Title 47 Part 15 Subpart C Section 15.247 Standards:

The above equipment has been tested by World Standardization Certification & Testing Group (Shenzhen) Co., Ltd. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:

Checked By:

(Wang Xiang)

(Chen Xu)

Approved By:

16 May) Date:

Cher

(Qin Shuiquan)

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2. Test Result Summary

	ALCE CT ALCE C	TAPE CT	ALCCE CT S
7	Requirement	CFR 47 Section	Result
	Antenna Requirement	§15.203/§15.247 (c)	PASS
7 °	AC Power Line Conducted Emission	W5 ET §15.207	PASS
_	Maximum conducted output power	§15.247 (b)(1) §2.1046	W5 PASS
	20dB Occupied Bandwidth	§15.247 (a)(1) §2.1049	PASS
	Carrier Frequencies Separation	§15.247 (a)(1)	PASS
	Hopping Channel Number	§15.247 (a)(1)	WS C PASS
7	Dwell Time	§15.247 (a)(1)	PASS
7°	Radiated Emission	§15.205/§15.209 W-§2.1053, §2.1057 W5 ET	PASS _{V5LT}
	Band Edge	§15.247(d) §2.1051, §2.1057	PASS

Note:

- 1. PASS: Test item meets the requirement.
- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.

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EUT Description 3.

Mobile Phone WSET WSET	V5 CT
KM7	
TECNO	
2402MHz~2480MHz	
1MHz	\times
797 WSET WSET	V5 CT
GFSK, π/4-DQPSK, 8-DPSK	
Integral Antenna W5CT W5CT	
-1.43dBi	
Input: 100-240V~50/60Hz 1.8A Output: 5.0V3.0A 15.0W or 5.0-10.0V4.5A or 11V4.1A 45.0W MAX Adapter2: U450TSB(AH) Input: 100-240V~50/60Hz 1.8A Output: 5.0V3.0A 15.0W or 5.0-10.0V4.5A or 11V4.1A 45.0W MAX Rechargeable Li-ion Polymer Battery Model: BL-50FT Rated Voltage: 3.92V	WSET*
Rated Capacity: 5060mAh Nominal Energy:19.84Wh Typical Capacity: 5160mAh W5 [7] Limited Charge Voltage: 4.53V	
N/A.	X
	KM7 TECNO 2402MHz~2480MHz 1MHz 79

Note: 1. N/A stands for no applicable.

2. The antenna gain is provided by the customer. For any reported data issues caused by the antenna gain, World Standardization Certification&Testing Group (Shenzhen) Co., Ltd assumes no responsibility.

3. The laboratory shall be responsible for all information in the report, except for the information provided by the client. The data provided by the client should be clearly identified. In addition, when the information provided by the client may affect the validity of the results, a disclaimer should be included in the report. When the laboratory is not responsible for sampling (such as when the sample is provided by the customer), the results should be declared in the report as applicable to the received sample.

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Operation Frequency each of channel for GFSK, π/4-DQPSK, 8DPSK

	O POT GITTO	11 10 9 4 5 110	y care ii c		or ort,		1,001	
,	Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
	0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
	1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
.0		W5 CT		WSET		WS ET		W5CT°
	10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
	11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
	/		<u></u>		\\ \		/	
7	418	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
	19	2421MHz	39	2441MHz	59	2461MHz		- \
Remark: Channel 0, 39 &78 have been tested for GFSK, π/4-DQPSK, 8DPSK								DPSK /

Remark: Channel 0, 39 &78 have been tested for GFSK, $\pi/4$ -DQPSK, 8DPSK modulation mode.

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Genera Information 4.

4.1. Test environment and mode

Operating Environment: Temperature: 25.0 °C Humidity: 56 % RH Atmospheric Pressure: 1010 mbar

Test Mode:

Engineering mode: Keep the EUT in continuous transmitting by select channel and modulations with Fully-charged battery

The sample was placed 0.8m & 1.5m for the measurement below & above 1GHz above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

9	Equipment	Model No.	Serial No.	FCC ID	Trade Name
	\times	X	\times	1	X /

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 20dB Occupied Bandwidth, Carrier Frequencies Separation, Hopping Channel Number, Dwell Time, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

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5. Facilities and Accreditations

5.1. Facilities

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All measurement facilities used to collect the measurement data are located at Building A-B,Baoli'an Industrial Park,No.58 and 60,Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China of the World Standardization Certification & Testing Group (Shenzhen) Co., Ltd.

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5.2.ACCREDITATIONS

ANAB - Certificate Number: AT-3951

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (ANAB). Certification Number: AT-3951

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WSET	WSET	WSET	WSET	$\langle \ \rangle$	
W.5		SET	WSCT	WSET	WSCT
WSCT	WSCT	WSET	WSEI	$\langle \ \rangle$	
W/S		SET	WSET	WSET	WSET
WSCT	WSET	WSET	WSGI	$\langle \ \rangle$	
		SET	WSCT	\times	X
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5.3. Measurement Uncertainty

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7	No.	Item	MU	W5
	1	Duty Cycle and Tx-Sequence and Tx-Gap	±1%	
7	2	Dwell Time and Minimum Frequency Occupation	±1.2%	
	3	Medium Utilisation Factor	±1.3%	
	4	Occupied Channel Bandwidth	±2.4%	
7	5	Transmitter Unwanted Emission in the out-of Band	±1.3%	WS
	6	Transmitter Unwanted Emissions in the Spurious Domain	±2.5%	
7°	7	Receiver Spurious Emissions	±2.5%	
	8	Conducted Emission Test	±3.2dB	
	9 W5/	RF power, conducted	±0.16dB	W5
7	10	Spurious emissions, conducted	±0.21dB	
	11	All emissions, radiated(<1GHz)	±4.7dB	
.7°	12	All emissions, radiated(>1GHz)	±4.7dB	
	13	Temperature	±0.5°C	
	14	Humidity WSCT	±2.0%	W5

NOTE:1. The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

- 2. The Ulab is less than Ucispr, compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.
- 3. For conducted emission test of laboratory have a measurement uncertainty greater than that specified in harmonized standard, this equipment can still be used provided that an adjustment is made follows: any additionan uncertainty in the test system over and above that specified in harmonized standard should be used to tighter the test requirements-making the test harder to pass. This procedure will ensure that a test system not combiant with harmonized standard does not increase the probability of passing a EUT that would otherwise have failed a test if a test system combiant with harmonized standard had been used.

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5.4. MEASUREMENT INSTRUMENTS

	J.T. WILAGO		\wedge				
	NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.	75 E I
\langle	Test software		EZ-EMC	CON-03A	-	X-	
	Test software		MTS8310	WSIT	- /	75 TT	
	EMI Test Receiver	R&S	ESCI	100005	11/05/2024	11/04/2025	
	LISN	AFJ	LS16	16010222119	11/05/2024	11/04/2025	\wedge
	LISN(EUT)	Mestec	AN3016	04/10040	11/05/2024	11/04/2025	'5 C I
<	Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	11/05/2024	11/04/2025	
c i	Coaxial cable	Megalon	LMR400	N/A	11/05/2024	11/04/2025	
	GPIB cable	Megalon	GPIB	N/A	11/05/2024	11/04/2025	
	Spectrum Analyzer	R&S	FSU	100114	11/05/2024	11/04/2025	\wedge
	Pre Amplifier	IH.P. <i>ET</i>	HP8447E 5 /	2945A02715	11/05/2024	11/04/2025	15 C
	Pre-Amplifier	CDSI	PAP-1G18-38	-	11/05/2024	11/04/2025	
	Bi-log Antenna	SCHWARZBECK	VULB9168	01488	7/29/2024	7/28/2025	
5	9*6*6 Anechoic	ET V	VS CT	W.S.CT	11/05/2024	11/04/2025	
	Horn Antenna	COMPLIANCE ENGINEERING	CE18000		11/05/2024	11/04/2025	X
	Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	11/05/2024	11/04/2025	15 C I
_	Cable	TIME MICROWAVE	LMR-400	N-TYPE04	11/05/2024	11/04/2025	-/-
	System-Controller	ccs	N/A	N/A	N.C.R	N.C.R	
7	Turn Table	ccs	N/A	N/A	N.C.R	N.C.R	
	Antenna Tower	ccs	N/A	N/A	N.C.R	N.C.R	
	RF cable	Murata	MXHQ87WA300 0	-	11/05/2024	11/04/2025	
	Loop Antenna	EMCO	6502W5L	00042960	11/05/2024	11/04/2025	15 C I
1	Horn Antenna	SCHWARZBECK	BBHA 9170	1123	11/05/2024	11/04/2025	
1	Power meter	Anritsu	ML2487A	6K00003613	11/05/2024	11/04/2025	
4	Power sensor	Anritsu	MX248XD	WSET	11/05/2024	11/04/2025	
	Spectrum Analyzer	Keysight	N9010B	MY60241089	11/05/2024	11/04/2025	X

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Test Results and Measurement Data 6.

6.1. 5 Antenna requirement

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Standard requirement:

FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The Bluetooth antenna is a Integral Antenna. it meets the standards, and the best case gain of the antenna is -1.43dBi.

Please refer to the attached "KM7 Internal Photo" for the antenna location

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Conducted Emission 6.2.

	6.2.1. Test Specification 5	T WSET WSET V	V5
X	Test Requirement:	FCC Part15 C Section 15.207	
WSET	Test Method: 5 [7]	ANSI C63.10:2014 W5 [T] W5 [T]	
	Frequency Range:	150 kHz to 30 MHz	X
	Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto	V5 CT
WSET	Limits:	Frequency range (MHz) Limit (dBuV) 0.15-0.5 Guasi-peak Average 0.5-5 56 46 5-30 60 50	
		Reference Plane	\wedge
	WSET* WSE	40cm 80cm LISN	W 5 E 7
WSCT	Test Setup: WS CT WS CT	Filter AC power E.U.T AC power EMI Receiver Remark E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	WSET
X	Test Mode:	Refer to item 4.1	
WSCT	WSCT WSC	 The E.U.T is connected to an adapter through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH 	WSET
WSET	Test Procedure:	coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interference applies must be changed according to	$\overline{\times}$
	WSET WSE	the interface cables must be changed according to ANSI C63.10:2014 on conducted measurement.	esung Gro
X	Test Result:	PASS WS T	p(She

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6.2.2. EUT OPERATING CONDITIONS

The EUT is working in the Normal link mode. All modes have been tested and normal link mode is WS ET worst.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

	WSET	WSET	WSCT	W5 CT	WSET
WSI	$\langle \hspace{0.1cm} \rangle$	$\langle \hspace{0.1cm} \rangle$	$\langle \hspace{0.1cm} \rangle$		TET .
	WSET	WSET	WSET	WSET	WSCT
WSL	$\langle \hspace{0.1cm} \rangle$	$\langle \hspace{0.1cm} \rangle$	$\langle \hspace{0.1cm} \rangle$		TET .
	WSET	WSET	WSET	WSET	WSCT
WS	$\langle \hspace{0.2cm} \rangle$	$\langle \hspace{0.2cm} \rangle$			ET
	WSCT	WSET	WSCT	WSET	WSCT
WS	$\langle \hspace{0.1cm} \rangle$	$\langle \hspace{0.2cm} \rangle$	$\langle \hspace{0.1cm} \rangle$		ET
	WSCT	WSET	WSET	\times	X
WSI		$\langle \hspace{0.1cm} \rangle$	$\langle \hspace{0.1cm} \rangle$	ardization	
ADD: Building TEL: 0086-755-	A-B,Baoli'an Industrial Park,No.58 and 60,Ta	angtou Avenue, Shiyan Street, Bao'an District 0086-755-86376605 E-mail: fengbing.wa	t, Shenzhen City, Guangdong Province, C	hina. 深圳世标检测认证股份有限公司	Testing Group(Shenzhen) Co.,Ltd





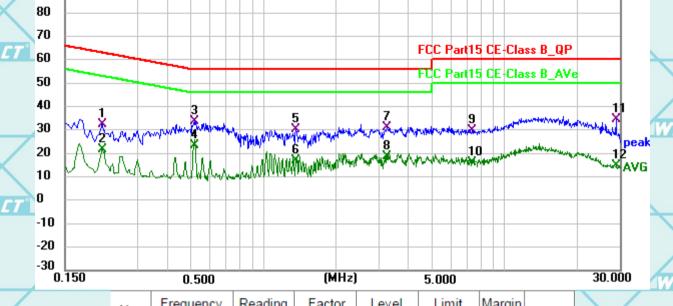


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Report No.: WSCT-ANAB-R&E250400030A-BT

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Test data Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz) 90.0 dBuV 80 70 60 FCC Part15 CE-Class B_QP



\times	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	
	1	0.2130	11.87	20.68	32.55	63.09	-30.54	QP	
W5 CT	2	0.2130	1.07	20.68	21.75	53.09	-31.34	AVG	W5CT
	3 *	0.5144	13.01	20.51	33.52	56.00	-22.48	QP	
X	4	0.5144	2.92	20.51	23.43	46.00	-22.57	AVG	
	5	1.3650	9.41	20.65	30.06	56.00	-25.94	QP	
W5CT*	6	1.3650	-3.54	20.65	17.11	46.00	-28.89	AVG	W5ET*
	7	3.2595	10.61	20.59	31.20	56.00	-24.80	QP	
	8	3.2595	-2.04	20.59	18.55	46.00	-27.45	AVG	
W5ET*	9	7.3185	9.48	20.50	29.98	60.00	-30.02	QP	WSET
	10	7.3185	-4.33	20.50	16.17	50.00	-33.83	AVG	
X	11	29.0355	13.59	21.06	34.65	60.00	-25.35	QP	X
	12	29.0355	-6.33	21.06	14.73	50.00	-35.27	AVG	
W5ET"		W5	CT°\		W5 ET		W	SET	WSCT

WSET WSET WSET WSET

WSCT WSCT WSCT

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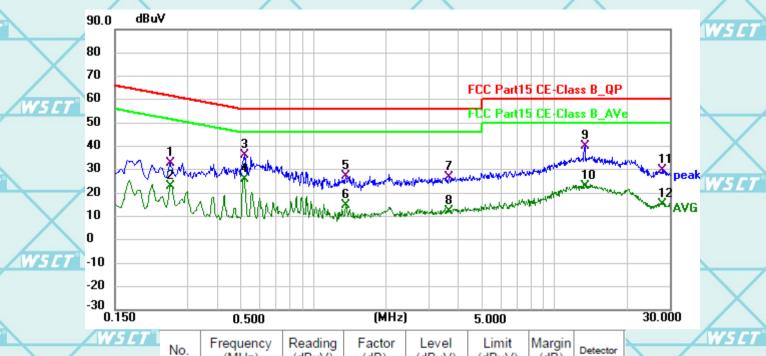






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Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



(dBuV) (dBuV) (dB) (MHz) (dB) (dBuV) 0.2535 32.84 -28.80 1 12.18 20.66 61.64 QP AVG 2 0.2535 20.66 22.84 51.64 -28.80 2.18 QP 3 0.5144 15.59 20.51 36.10 56.00 -19.900.5144 5.57 26.08 46.00 -19.92AVG 4 20.51 QP 5 1.3605 6.46 20.65 27.11 56.00 -28.89 6 1.3605 -5.9920.65 14.66 46.00 -31.34 AVG 7 QP 3.6555 6.24 20.59 26.83 56.00 -29.17 -33.85 8 3.6555 -8.44 20.59 12.15 46.00 AVG 9 QP 13.3485 19.93 20.26 40.19 60.00 -19.81 10 13.3485 2.60 20.26 22.86 -27.14 AVG 50.00 11 27.9735 8.65 20.94 29.59 60.00 -30.41 QP 12 27.9735 -5.7120.94 15.23 50.00 -34.77 AVG

Note1:

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading

Corr. Factor (dB) = LISN Factor + Cable loss

Measurement $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)

Limit $(dB\mu V) = Limit$ stated in standard V = C

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 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$

Q.P. =Quasi-Peak AVG =average

is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

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W5 E1

W5 CT

W5 C1

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W5 CT

Conducted Output Power 6.3.

WS ET

W5 C7

W5C1

6.3.1. Test Specification

	Test Requirement:	FCC Part15 C Section 15.247 (b)(3)	
	Test Method:	ANSI C63.10:2014	
	Limit:	Section 15.247 (b) The maximum peak conducted output power of the intentional radiator shall not exceed the following: (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.	W5 C
7	Test Setup:	Spectrum Analyzer EUT	WSG
	Test Mode:	Transmitting mode with modulation	
	Test Procedure:	Use the following spectrum analyzer settings: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel RBW > the 20 dB bandwidth of the emission being measured VBW ≥ RBW Sweep = auto Detector function = peak Trace = max hold Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission.	WSE
	Test Result:	PASS	
	W-JL/ W-JL/	W-5-4/ W-5-4/	MAL

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W5 CT

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6.3.2. Test Data

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W5 C7

_	GFSK mode				
	Test channel	Maximum conducted output power (dBm)	Limit (dBm)	Result	
0	Lowest	6.59	20.97	PASS	
1	Middle	6.51	20.97	PASS	
	Highest	7.88	20.97	PASS	

7				
	Test channel	Maximum conducted output power (dBm)	Limit (dBm)	Result
	Lowest	5.865	20.97	PASS
	Middle	5.46	20.97	PASS
	Highest	6.84	20.97	PASS
	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A I I I I I I I I I I I I I I I I I I I	7	

7	8DPSK mode				
	Test channel	Maximum conducted output power (dBm)	Limit (dBm)	Result	
	Lowest	5.86	20.97	PASS	
	Middle	5.48	20.97	PASS	
	Highest	W5 [T] 6.85	20.97 V	75 ET PASS	

Test plots as follows:

WSCT	WSCT	WSLT	WSET	WSET	
	WSET	W5 CT	WSCT	WSCT	W5 CT

W5 ET W5 ET W5 ET W5 ET

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6.4. 20dB Occupy Bandwidth

6.4.1. Test Specification

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X	Test Requirement:	FCC Part15 C Section 15.247 (a)(1)	
WSET	Test Method:	ANSI C63.10:2014 W5 [T] W5 [T]	
	Limit:	N/A	\times
	Test Setup:	EUT EUT	WSET
WSET	Test Mode:	Transmitting mode with modulation W5.27	
WSCT	Test Procedure:	 The testing follows ANSI C63.10:2014 Measurement Guidelines. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel; 1%≤ RBW≤5% of the 20 dB bandwidth; VBW≥3RBW; Sweep = auto; Detector function = peak; Trace = max hold. Measure and record the results in the test report. 	WSET
	Test Result:	PASS	

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6.4.2. Test data

/						
Zoot obonnol		20dB Occupy Bandwidth (MHz)				
	Test channel	GFSK	π/4-DQPSK	8DPSK	Conclusion	
	Lowest	0.848	1.282	1.288	PASS	
	Middle	0.811 ws	1.260	1.256	PASS _{V5}	
/	Highest	0.813	1.268	1.285	PASS	
				•		

WS CT Test plots as follows: W5 C W5 CT W5 C7 W5 C1 W5 C1 W5 C1 W5 C7 W5C1 W5 E1 WSET WSCI W5 CT W5 CT WS ET W5E1 W5C1 W5E W5 E W5C W5 CI W5 CT

W5C1 WS ET WS CT W5 E1

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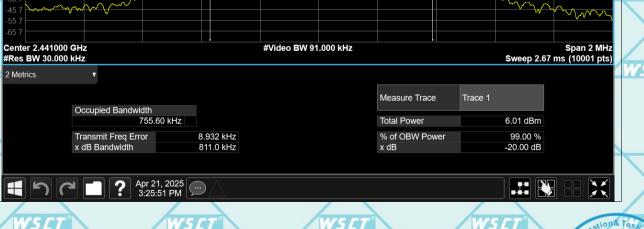
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6.5. Carrier Frequencies Separation

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X	Test Requirement:	FCC Part15 C Section 15.247 (a)(1)	
W5 ET	Test Method:	ANSI C63.10:2014 W5 [T] W5 [T]	
	Limit:	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.	WSET
WSET	Test Setup:	Spectrum Analyzer EUT W557	
	Test Mode:	Hopping mode	
WS CT	Test Procedure:	 The testing follows ANSI C63.10:2014 Measurement Guidelines. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Enable the EUT hopping function. Use the following spectrum analyzer settings: Span = wide enough to capture the peaks of two adjacent channels; RBW is set to approximately 30% of the channel spacing, adjust as necessary to best identify the center of each individual channel; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Record the value in report. 	WSCT
	Test Result:	PASS	

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6.5.2. Test data

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Test channel	Carrier Frequencies Separation (MHz)	Limit (2/3*20dB BW MHz)	Result
Lowest	1.040	0.565	PASS
Middle	1.000	0.541	PASS
Highest	1.002	0.542	PASS

		Pi/4 DQPSK	mode	
0	Test channel	Carrier Frequencies Separation (MHz)	Limit (2/3*20dB BW MHz)	Result
	Lowest	1.342	0.855	PASS
	Middle	0.992	0.840	PASS
	Highest	W5 CT 1.174	5_7 0.845	5 CT PASS

8DPSK mode					
	Test channel	Carrier Frequencies Separation (MHz)	Limit (2/3*20dB BW MHz)	Result	
	Lowest	1.012	0.859	PASS	
	Middle	1.162	0.837	PASS	
1	Highest	1.150	0.857	PASS	

Test plots as follows:

		X		
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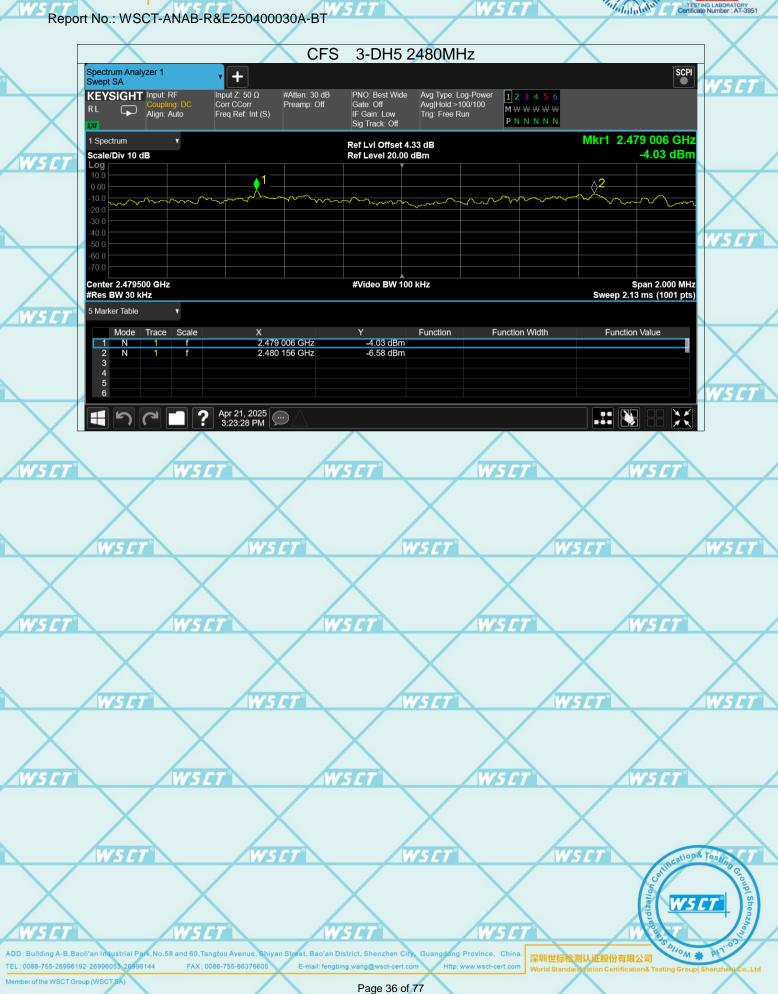
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6.6. Hopping Channel Number

W5ET

W5 CT

W5CT

6.6.1. Test Specification

WSET	Test Requirement:	FCC Part15 C Section 15.247 (a)(1)		
AW3/6/	Test Method:	ANSI C63.10:2014		
	Limit:	Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.	\triangle	
WSET	Test Setup:	Spectrum Analyzer EUT	WS ET	
	Test Mode:	Hopping mode	$\overline{}$	
WSCT	Test Procedure:	 The testing follows ANSI C63.10:2014 Measurement Guidelines. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Enable the EUT hopping function. Use the following spectrum analyzer settings: Span = the frequency band of operation; set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller; VBW≥RBW; Sweep 		
WSCT	Test Result:	 = auto; Detector function = peak; Trace = max hold. 6. The number of hopping frequency used is defined as the number of total channel. 7. Record the measurement data in report. PASS	X	
	W3L/ W3L	WSUT WSUT	W5CT"	

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6.6.2. Test data

Mode	Hopping channel numbers	Limit	Result
GFSK, P/4-DQPSK, 8DPSK	79	15	PASS

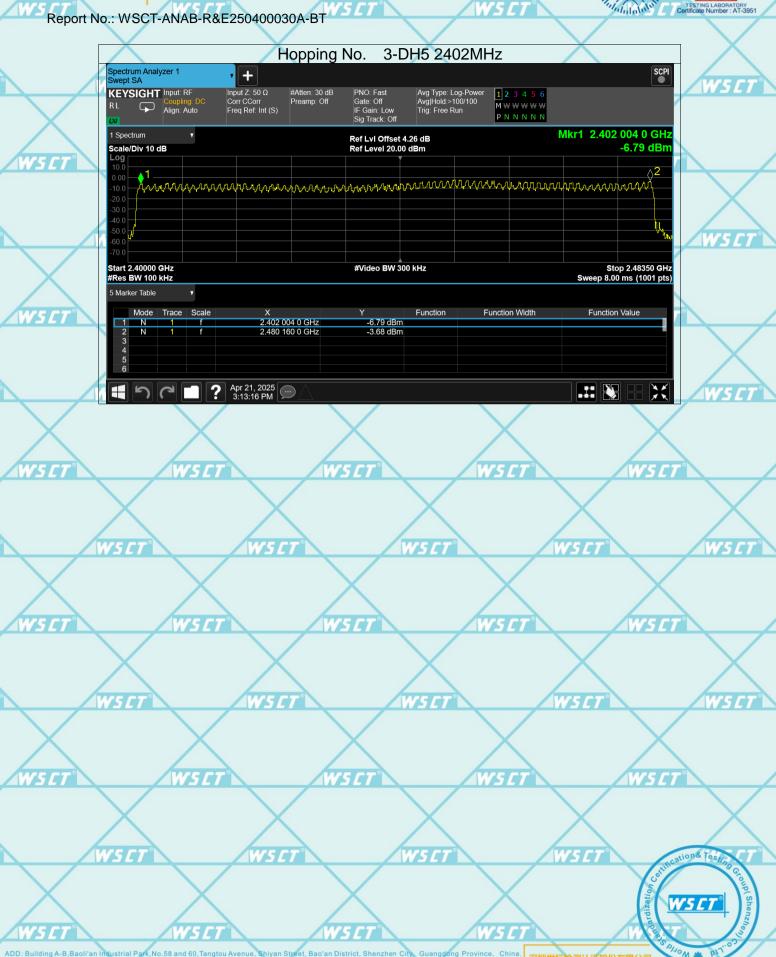
Test plots as follows: Test Graphs 1-DH5 2402MHz Hopping No. Spectrum Analyzer 1 Swept SA SCPI + PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) #Atten: 30 dB Preamp: Off Avg Type: Log-Power Avg|Hold:>100/100 Trig: Free Run 1 2 3 4 5 6 M \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ KEYSIGHT Input: RF Align: Auto Mkr1 2.401 837 0 GHz Ref LvI Offset 4.26 dB Ref Level 20.00 dBm -0.25 dBm Scale/Div 10 dB Start 2.40000 GHz #Res BW 100 kHz Stop 2.48350 GHz Sweep 8.00 ms (1001 pts) #Video BW 300 kHz Function Function Width Function Value 2.401 837 0 GHz 2.480 076 5 GHz -0.25 dBm 2.17 dBm ? Apr 21, 2025 2:41:38 PM ** 2-DH5 2402MHz Hopping No. Spectrum Analyzer 1 Swept SA SCPI + Avg Type: Log-Power Avg|Hold:>100/100 Trig: Free Run Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) #Atten: 30 dB Preamp: Off KEYSIGHT Input: RF Align: Auto PNNNNN Mkr1 2.401 837 0 GHz Ref Lvi Offset 4.26 dB Ref Level 20.00 dBm -0.55 dBm Scale/Div 10 dB ground and a supple of the sup $\frac{1}{2}$ Stop 2.48350 GHz Sweep 8.00 ms (1001 pts) Start 2.40000 GHz #Res BW 100 kHz #Video BW 300 kHz Function Value 2.401 837 0 GHz 2.480 410 5 GHz -4.09 dBm on& Test **

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W5 CT





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6.7. **Dwell Time**

6.7.1. Test Specification 5

W5E7

X	Test Requirement:	FCC Part15 C Section 15.247 (a)(1)	
W5 ET	Test Method:	ANSI C63.10:2014 W5 [T] W5 [T]	
	Limit:	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.	WSLT
\times	Test Setup:	Spectrum Analyzer EUT	
W5 CT	Test Mode:	Hopping mode W5 [T] W5 [T]	
WSCT	Test Procedure:	 The testing follows ANSI C63.10:2014 Measurement Guidelines. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Enable the EUT hopping function. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel; RBW shall be ≤ channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel; VBW≥RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold. Measure and record the results in the test report. 	WSCT
	Test Result:	PASS	
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W5 CT







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6.7.2. Test Data

Period Time Mode **Pulse Time Total Dwell Time** Limit Verdict Frequency Burst (MHz) (ms) (ms) Count (ms) (ms) 1-DH1 31600 Pass 2402 0.374 117.81 315 400 1-DH1 2441 0.375 119.25 318 31600 400 Pass 1-DH1 Pass 2480 0.375 118.875 317 31600 400 1-DH3 2402 1.631 282.163 173 31600 400 Pass 1-DH3 2441 1.63 246.13 151 31600 400 **Pass** 1-DH3 31600 Pass 2480 1.631 247.912 152 400 1-DH5 2402 2.878 299.312 104 31600 400 Pass Pass 1-DH5 299.416 104 400 2441 2.879 31600 1-DH5 2480 2.877 325.101 113 31600 400 Pass

Note: 1. In normal mode, hopping rate is 1600 hops/s with 6 slots in 79 hopping channels.

For DH1, With channel hopping rate (1600 / 2 / 79) in Occupancy Time Limit (0.4 x 79) (s), Hops Over Occupancy Time comes to $(1600 / 2 / 79) \times (0.4 \times 79) = 320$ hops

For DH3, With channel hopping rate (1600/4/79) in Occupancy Time Limit (0.4×79) (s), Hops Over Occupancy Time comes to $(1600/4/79) \times (0.4 \times 79) = 160$ hops

For DH5, With channel hopping rate (1600 / 6 / 79) in Occupancy Time Limit (0.4 x 79) (s), Hops Over Occupancy Time comes to $(1600 / 6 / 79) \times (0.4 \times 79) = 106.67$ hops

2. Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time 3

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Test plots as follows:

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WSCT

W5CT°







"Infalalatate W5 CI Report No.: WSCT-ANAB-R&E250400030A-BT Test Graphs 1-DH1 2402MHz One Burst Dwell Spectrum Analyzer 1 Swept SA SCPI + Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) Avg Type: Log-Power Trig: Video Trig Delay: -500.0 μs #Atten: 30 dB Preamp: Off PNO: Fast Gate: Off KEYSIGHT Input: RF 1 2 3 4 5 6 **w** ₩ ₩ ₩ ₩ Align: Auto PNNNNN ΔMkr1 374.0 μs Ref LvI Offset 4.26 dB Ref Level 20.00 dBm 1.61 dB Scale/Div 10 dB <mark>∡</mark>1∆2 Center 2.402000000 GHz Res BW 1.0 MHz Span 0 Hz Sweep 10.0 ms (10001 pts) #Video BW 3.0 MHz 15 C 5 Marker Table Function Value Mode Function Function Width 374.0 μs (Δ) 1.61 dB -3.10 dBm 497.0 µs Apr 21, 2025 2:33:00 PM 1-DH1 2402MHz Accumulated Dwell 15 C I SCPI Spectrum Analyzer 1 + . wept SA Avg Type: Log-Power Trig: Free Run Input Z: 50 Ω KEYSIGHT Input: RF #Atten: 30 dB PNO: Fast 1 2 3 4 5 6 Corr CCorr Freq Ref: Int (S) Gate: Off IF Gain: Low Sig Track: Off Preamp: Off **w** ₩ ₩ ₩ ₩ Align: Auto PNNNN 1 Spectrum Ref Lvl Offset 4.26 dB Scale/Div 10 dB Ref Level 20.00 dBm

Center 2.402000000 GHz Res BW 1.0 MHz Span 0 Hz Sweep 31.6 s (10001 pts) #Video BW 3.0 MHz

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MON # 深圳世标检测认证股份有限公司

VS C

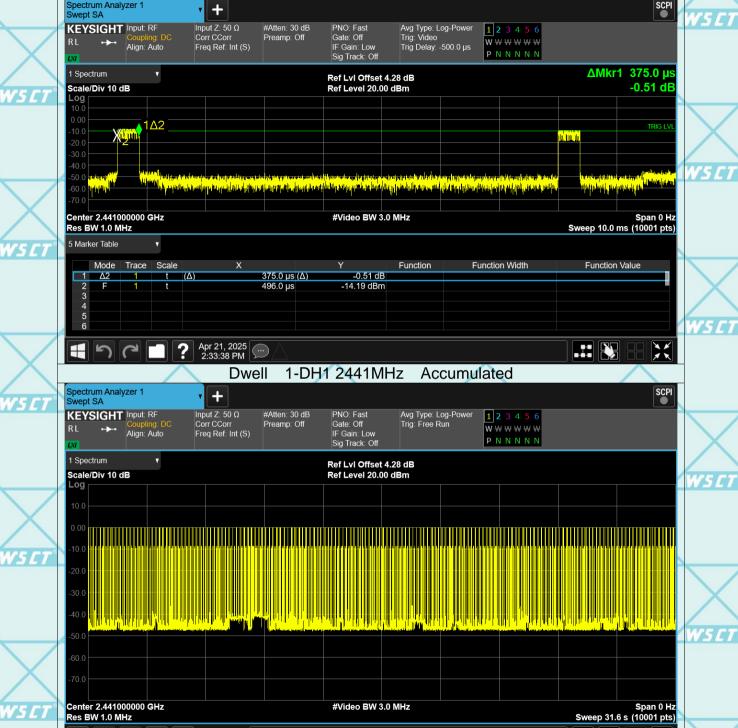
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