

W5CT

TEST REPORT

FCC ID: 2ADYY-T15RA-1

Product: Laptop Computer

Model No.: T15RA

Trade Mark: TECNO

Report No.: WSCT-ANAB-R&E240800043A-BT

Issued Date: 12 October 2024

WS CT

Issued for:

TECNO MOBILE LIMITED

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

W5 ET

Issued By:

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

TEL: +86-755-26996192

FAX: +86-755-86376605

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Note: The results contained in this report pertain only to the tested sample. This report shall not be reproduced, except in full, without written approval of World Standardization Certification & Testing Group(Shenzhen) Co., Ltd. This report must not be used by the client to claim product certification, approval, or any agency of the U.S. Government.

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WSET

W5 CT

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深圳世标检测认证股份有限公司





Report No.: WSCT-ANAB-R&E240800043A-BT

Test Certification

Product: Laptop Computer

WSCT

Model No.:

T15RA

Additional

Model:

TECNO

Applicant:

TECNO MOBILE LIMITED

Address:

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

SHAN MEI STREET FOTAN NT HONGKONG

Manufacturer:

TECNO MOBILE LIMITED

Address:

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

SHAN MEI STREET FOTAN NT HONGKONG

Date of Test:

20 September 2024 to 12 October 2024

Applicable Standards:

FCC CFR Title 47 Part 15 Subpart C Section 15.247

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.

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Tested By:

Checked By: 5

Cheno

(Wang Xiang)

(Chen Xu)

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Approved By:

Date: 12 October 20

(Li Huaibi)

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Test Result Summary 2.

	WEET WEET	THE CT	WEET	177
	Requirement	CFR 47 Section	Result	
	Antenna Requirement	§15.203/§15.247 (c)	PASS	
57	AC Power Line Conducted Emission	WSET §15.207	PASS	1
	Conducted Peak Output W5 [7] Power W5 [§15.247 (b)(1) §2.1046	W5 PASS	W
	20dB Occupied Bandwidth	§15.247 (a)(1) §2.1049	PASS	
7.4	Carrier Frequencies Separation	§15.247 (a)(1)	PASS	1
	Hopping Channel Number	§15.247 (a)(1)	W5 PASS	
$\overline{}$	Dwell Time	§15.247 (a)(1)	PASS	
7	Radiated Emission	§15.205/§15.209 W §2.1053, §2.1057 W 5 [7]	PASS _{75LT}	_
	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.

WSCT	W5CT°	WSCT	WSCT	WSCT

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EUT Description 3.

	Product Name:	Laptop Computer W5CT W5CT	V5 CT
/	Model :	T15RA	
r T	Trade Mark:	TECNO	
	Operation Frequency:	2402MHz~2480MHz	\checkmark
	Channel Separation:	1MHz	
	Number of Channel:	79	VS CT
\langle	Modulation Type:	GFSK, π/4-DQPSK, 8-DPSK	
C T	Modulation W5 [7] Technology:	FHSS WSET WSET WSET	
	Antenna Type:	Integral Antenna	\times
	Antenna Gain:	1.78dBi WS.CT WS.CT	WS CT"
	W5CT	Adapter1: FC498U Input: 100-240V~50/60Hz 1.5A Max Output: PD:5.V==3A 15.0W 9V==3A 12 V==3A 15V==3A	
	Operating Voltage:	20V===3.25A PPS: 3.3-11V===5A Max Rechargeable Li-ion Polymer Battery: 156	WECT
<		Rated Capacity: 6060mAh/70Wh Typical Capacity: 6160mAh/71.14Wh Limited Charge Voltage: 13.2V	P.17.
CT	Remark: W5	N/A. W5CT W5CT W5CT	
	2 (1 1144		

Configuration differences

	Model	Processor
	T15RA	WSCT i5 WSCT
,	T15RA	j7
	Note: The prototypes	of both configurations have been tested,

and the T15RA (i7) has the worst test result, which is the main test model reported

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W5CT°

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

	Operation	n i roquono	y dudii d	onamio i	or ork,	II/T DQI O	t, obi oi	
,	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		WSCT		WSCT		WSET		WS CT°
	10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
	11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
	<u>/</u>		<u></u>					
7	4 18 4 7	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
	19	2421MHz	39	2441MHz	59	2461MHz		- \
	Remark:	Channel 0, 3	9 &78 ha	ve been tes	ted for G	FSK, π/4-D0	QPSK, 8D	PSK

modulation mode.

WSEI WSE W5 CT W5 ET W5 E7 W5C1 WS CI WS CI W5 E1 W5C1

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4. Genera Information

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.

4.2. 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.

8	Equipment	Model No.	Serial No.	FCC ID	Trade Name
	Adapter	FC498U	/	1	TECNO

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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SET WSET

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Facilities and Accreditations

5.1. Facilities

All measurement facilities used to collect the measurement data are located at 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

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 32. 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 (ANAR) Cartification Number: AT-3051

Accred	litation (ANAB).Certification	ation Number: A1-395	^	
W	S C T W S	ET WS	CT WS	WS CT
WSET	W5 ET	WSET	WSET	WSCT
W	SET WS	ET WS	$\langle \hspace{0.1cm} \rangle$	WSET
WSCT	WSET	WSET	WSET	WSCT
	5CT W.5		$\langle \hspace{0.1cm} \rangle$	
WSET	W5ET*	WSET	WSET	WSCT
	SET WS	$\langle \hspace{0.1cm} \rangle$	$\langle \hspace{0.1cm} \rangle$	T alione test
WSET	WSET	WSET	WSET	Continuation & Testing Good (Shenzille Marie Mar

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Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based 15L on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

	001111010	nce of approximately 95 %.	
WSET	No.	Item	MU
	1	Duty Cycle and Tx-Sequence and Tx-Gap	±1%
	2	Dwell Time and Minimum Frequency Occupation	±1.2%
	3	Medium Utilisation Factor	±1.3%
X	4	Occupied Channel Bandwidth	±2.4%
WSET	5	Transmitter Unwanted Emission in the out-of Band	±1.3%
	6	Transmitter Unwanted Emissions in the Spurious Domain	±2.5%
	7	Receiver Spurious Emissions	±2.5%
	8	Conducted Emission Test	±3.2dB
X	9	RF power, conducted	±0.16dB
W5CT°	10	Spurious emissions, conducted / W5 [7]	±0.21dB
	11	All emissions, radiated(<1GHz)	±4.7dB
	12	All emissions, radiated(>1GHz)	±4.7dB
	13	Temperature	±0.5°C
	14	Humidity	±2.0%

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5.4. MEASUREMENT INSTRUMENTS

	0.4. ML/100	IXEMENT IN	TOMERTO				
_	NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.	75 C 1
<	Test software		EZ-EMC	CON-03A	-	X-	
C	Test software	- /	MTS8310	WSIT	- /-	VSCT	
	EMI Test Receiver	R&S	ESCI	100005	11/05/2023	11/04/2024	
	LISN	AFJ	LS16	16010222119	11/05/2023	11/04/2024	\wedge
	LISN(EUT)	Mestec	AN3016	04/10040	11/05/2023	11/04/2024	'5 C 1
<	Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	11/05/2023	11/04/2024	
C	Coaxial cable	Megalon	LMR400	N/A	11/05/2023	11/04/2024	
	GPIB cable	Megalon	GPIB	N/A	11/05/2023	11/04/2024	
	Spectrum Analyzer	R&S	FSU	100114	11/05/2023	11/04/2024	\wedge
	Pre Amplifier	H.P. <i>ET</i>	HP8447E 5 /	2945A02715	11/05/2023	11/04/2024	75 C 1
1	Pre-Amplifier	CDSI	PAP-1G18-38	-	11/05/2023	11/04/2024	
1	Bi-log Antenna	SCHWARZBECK	VULB9168	01488	11/05/2023	11/04/2024	
C	9*6*6 Anechoic	ET V	VS ET .	W.S ET	11/05/2023	11/04/2024	
	Horn Antenna	COMPLIANCE ENGINEERING	CE18000		11/05/2023	11/04/2024	X
	Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	11/05/2023	11/04/2024	15 E I
_	Cable	TIME MICROWAVE	LMR-400	N-TYPE04	11/05/2023	11/04/2024	
	System-Controller	ccs	N/A	N/A	N.C.R	N.C.R	
C	Turn Table	ccs	V5/1/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	-	11/05/2023	11/04/2024	
	Loop Antenna	EMCO7	6502W51	00042960	11/05/2023	11/04/2024	75 C I
1	Horn Antenna	SCHWARZBECK	BBHA 9170	1123	11/05/2023	11/04/2024	
	Power meter	Anritsu	ML2487A	6K00003613	11/05/2023	11/04/2024	
4	Power sensor	Anritsu	MX248XD	WSET	11/05/2023	11/04/2024	
	Spectrum Analyzer	Keysight	N9010B	MY60241089	11/05/2023	11/04/2024	X



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6.

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Test Results and Measurement Data

6.1.W5 Antenna requirement

WSET°

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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 LT 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 1.78dBi.

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Conducted Emission 6.2.

6.2.1. Test Specification

	6.2.1. Test Specification	WSET	W.5	LT"	W5C
X	Test Requirement:	FCC Part15 C Section	15.207	X	
V5 CT	Test Method: 5 [7]	ANSI C63.10:2014	WSET	WSET	
	Frequency Range:	150 kHz to 30 MHz			X
	Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	=auto	West o
VSET	Limits:	Frequency range (MHz) 0.15-0.5 0.5-5 5-30	Limit (c Quasi-peak 66 to 56*	dBuV) Average 56 to 46* 46 50	WSE
	\times			30	X
	WSET WSE	Reference	80cm LISN Filter	—— AC power	W5E
VS CT	Test Setup: _{W5CT}	E.U.T AC power	EMI Receiver		
	WSET WSE	Remark E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Ne Test table height=0.8m	ntwork		W5C
X	Test Mode:	Refer to item 4.1	X	X	
VS CT	WSET WSE	The E.U.T is connect impedance stabilized provides a 500hm/5 measuring equipmer The peripheral device.	ation network 50uH coupling im nt.	(L.I.S.N.). This pedance for the	\times
VSCT	Test Procedure:	power through a LIS coupling impedance refer to the block photographs).	with 50ohm term diagram of the	nination. (Please test setup and	
	WSET WSE	3. Both sides of A.C. conducted interferent emission, the relative the interface cables	nce. In order to fir e positions of equi must be changed	nd the maximum ipment and all of according to	X
\ /		ANSI C63.10:2014 o	n conducted mea	surement	So Gron

PASS

Test Result:

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W5 CT





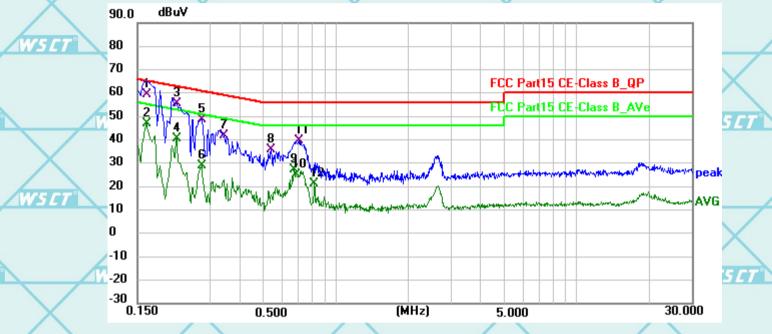
Report No.: WSCT-ANAB-R&E240800043A-BT

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6.2.2. Test data(worst case)

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz) The worst mode is GFSK

W5ET



WSET	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	5
X	1 *	0.1635	38.71	20.72	59.43	65.28	-5.85	QP	
	2	0.1635	26.33	20.72	47.05	55.28	-8.23	AVG	
W5 CT	3	0.2175	34.80	20.68	55.48	62.91	-7.43	QP	-
	4	0.2175	20.00	20.68	40.68	52.91	-12.23	AVG	
	5	0.2760	28.02	20.64	48.66	60.94	-12.28	QP	
WSET	6	0.2760	8.08	20.64	28.72	50.94	-22.22	AVG	e e
	7	0.3435	21.31	20.60	41.91	59.12	-17.21	QP	P
	8	0.5370	15.43	20.52	35.95	56.00	-20.05	QP	
	9	0.6720	6.57	20.54	27.11	46.00	-18.89	AVG	
WS CT"	10	0.6809	4.39	20.54	24.93	46.00	-21.07	AVG	
	11	0.7035	19.01	20.54	39.55	56.00	-16.45	QP	
X	12	0.8160	0.78	20.59	21.37	46.00	-24.63	AVG	

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Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China. 505 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com

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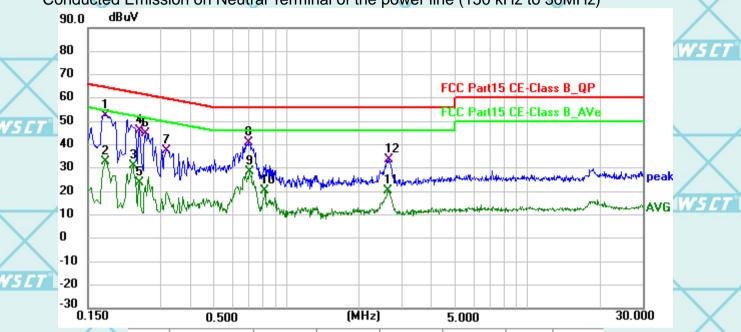






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Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



WSET	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	WSET
	1 *	0.1770	31.89	20.71	52.60	64.63	-12.03	QP	
X	2	0.1770	12.13	20.71	32.84	54.63	-21.79	AVG	X
WEET	3	0.2310	10.52	20.67	31.19	52.41	-21.22	AVG	Weller
WSET	4	0.2445	25.25	20.66	45.91	61.94	-16.03	QP	WSET
	5	0.2445	2.97	20.66	23.63	51.94	-28.31	AVG	
	6	0.2580	24.31	20.66	44.97	61.50	-16.53	QP	
W5 CT	7	0.3165	17.05	20.62	37.67	59.80	-22.13	QP	W5CT°
	8	0.6945	20.20	20.54	40.74	56.00	-15.26	QP	
X	9	0.7035	7.92	20.54	28.46	46.00	-17.54	AVG	X
	10	0.8160	-0.42	20.59	20.17	46.00	-25.83	AVG	
WSCT	11	2.6475	-0.09	20.60	20.51	46.00	-25.49	AVG	WSCT
	12	2.6655	13.10	20.60	33.70	56.00	-22.30	QP	

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 μ V) = Limit stated in standard W 5 Γ 7

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

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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Conducted Output Power 6.3.

6.3.1. Test Specification 5

W5 C7

W5 CT

W5 C1

W5 CI

X	Test Requirement:	FCC Part15 C Section 15.247 (b)(3)	
V5 CT	Test Method:	ANSI C63.10:2014	
WS ET	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.	WSET
V3.L/	Test Setup:	Spectrum Analyzer EUT	WSET
\bigvee	Test Mode:	Transmitting mode with modulation	
WS CT	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.	WSET
	Test Result:	PASS	X

W5 CT

W5 ET

W5 CT

W5 E1

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W5 CT



W5C1

W5 C1

W5 CT

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W5 CT

6.3.2. Test Data

GFSK mode					
	Test channel	Peak Output Power (dBm) Limit (dBm)		Result	
	Lowest	8.49	20.97	PASS	
1	Middle	8.26	20.97	PASS	
	Highest	8.04	20.97	PASS	

/	Pi/4DQPSK mode					
	Test channel	Peak Output Power (dBm)	Limit (dBm)	Result		
0	Lowest	8.28 <i>5 LT</i>	20.97	PASS [7]		
	Middle	8.07	20.97	PASS		
	Highest	7.88	20.97	PASS		

	8DPSK mode					
0	Test channel	Peak Output Power (dBm)	Limit (dBm)	Result		
	Lowest	8.41	20.97	PASS		
	Middle	8.14	20.97	PASS		
	Highest	W5 [T 7.94 W	20.97	75 CT PASS		
-37						

Test plots as follows:

W5 CT	"W5 CT"	WSET	W5 ET	WS CT°	
	W5 ET	W5 CT°	WSET	W5 CT°	WSET

W5 ET W5 ET WS CT W5 E1

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W5 CT

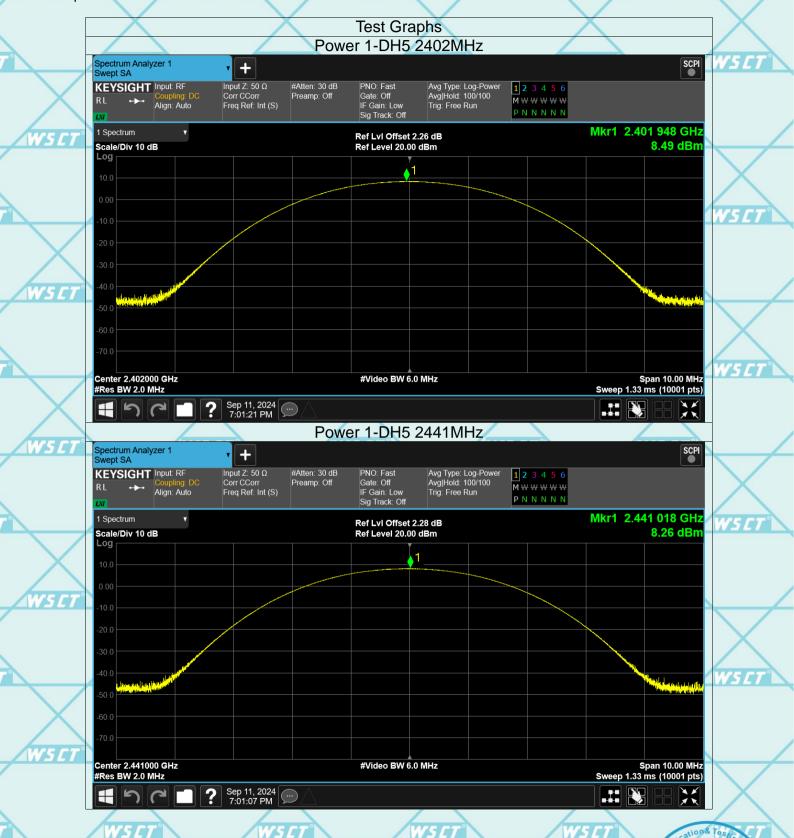






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W5C1

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The state of the s W5 CT Power 1-DH5 2480MHz SCPI Spectrum Analyzer 1 + Input Z: 50 Ω PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Atten: 30 dB Preamp: Off Avg Type: Log-Power Avg|Hold: 100/100 KEYSIGHT Input: RF 1 2 3 4 5 6 Corr CCorr Freq Ref: Int (S) $\mathsf{M} \times \mathsf{W} \times$ Align: Auto Trig: Free Run Mkr1 2.480 028 GHz 1 Spectrum Ref LvI Offset 2.33 dB Ref Level 20.00 dBm 8.04 dBm Scale/Div 10 dB Span 10.00 MHz Sweep 1.33 ms (10001 pts) Center 2.480000 GHz #Res BW 2.0 MHz #Video BW 6.0 MHz Sep 11, 2024 7:00:51 PM Power 2-DH5 2402MHz Spectrum Analyzer 1 Swept SA SCPI + Input Z: 50 Ω #Atten: 30 dB PNO: Fast Avg Type: Log-Power Avg|Hold: 100/100 Trig: Free Run KEYSIGHT Input: RF 1 2 3 4 5 6 Corr CCorr Freq Ref: Int (S) Preamp: Off Gate: Off IF Gain: Low Sig Track: Off Align: Auto PNNNNN Mkr1 2.401 979 GHz 1 Spectrum Ref LvI Offset 2.26 dB 8.28 dBm Scale/Div 10 dB Ref Level 20.00 dBm Log 1

Center 2.402000 GHz #Res BW 2.0 MHz Span 10.00 MHz #Video BW 6.0 MHz Sweep 1.33 ms (10001 pts) Sep 11, 2024 7:00:07 PM ĦΞ

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Power 2-DH5 2441MHz SCPI Spectrum Analyzer 1 + Input Z: 50 Ω PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Atten: 30 dB Preamp: Off Avg Type: Log-Power Avg|Hold: 100/100 KEYSIGHT Input: RF 1 2 3 4 5 6 Corr CCorr Freq Ref: Int (S) $\mathsf{M} \times \mathsf{W} \times$ Align: Auto Trig: Free Run Mkr1 2.440 882 GHz 1 Spectrum Ref LvI Offset 2.28 dB Ref Level 20.00 dBm 8.07 dBm Scale/Div 10 dB Span 10.00 MHz Sweep 1.33 ms (10001 pts) Center 2.441000 GHz #Res BW 2.0 MHz #Video BW 6.0 MHz Sep 11, 2024 7:00:23 PM Power 2-DH5 2480MHz Spectrum Analyzer 1 Swept SA SCPI + Input Z: 50 Ω #Atten: 30 dB PNO: Fast Avg Type: Log-Power Avg|Hold: 100/100 Trig: Free Run KEYSIGHT Input: RF 1 2 3 4 5 6 Corr CCorr Freq Ref: Int (S) Preamp: Off Gate: Off IF Gain: Low Sig Track: Off Align: Auto PNNNNN Mkr1 2.480 213 GHz 1 Spectrum Ref LvI Offset 2.33 dB 7.88 dBm Scale/Div 10 dB Ref Level 20.00 dBm Log Center 2.480000 GHz #Res BW 2.0 MHz Span 10.00 MHz #Video BW 6.0 MHz Sweep 1.33 ms (10001 pts) Sep 11, 2024 7:00:36 PM ĦΞ

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WSET Report No.: WSCT-ANAB-R&E240800043A-BT Power 3-DH5 2480MHz 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 KEYSIGHT Input: RF 1 2 3 4 5 6 M W W W W Align: Auto PNNNNN 1 Spectrum Mkr1 2.479 892 GHz Ref LvI Offset 2.33 dB Ref Level 20.00 dBm 7.94 dBm Scale/Div 10 dB WS C Span 10.00 MHz Sweep 1.33 ms (10001 pts) Center 2.480000 GHz #Res BW 2.0 MHz #Video BW 6.0 MHz Sep 11, 2024 6:59:41 PM ? 噩 WSET ation& Test World ADD: Building A-B, Baoil'an Industrial Park, No.58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China. 深圳世标检测认证股份有限公司 TEL: 0086-755-26996192 26996053 26996144 FAX: 0086-755-86376605

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W 5 / 1

WS CT WS CT







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6.4. 20dB Occupy Bandwidth

6.4.1. Test Specification

W5 CT

W5 CT

WSET

W5 CT

X	Test Requirement:	FCC Part15 C Section 15.247 (a)(1)	
W5 CT	Test Method:	ANSI C63.10:2014 W5 [T] W5 [T]	
	Limit:	N/A	X
	Test Setup:	Spectrum Analyzer EUT	WS ET®
WSCT	Test Mode:	Transmitting mode with modulation W5_TT	
WSET	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	

WSET WSET WSET

W5 CT

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WSET

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6.4.2. Test data

7	Test channel	-20dB Occupy Bandwidth (MHz)					
_	rest chamilei	GFSK	π/4-DQPSK	8DPSK	Conclusion		
	Lowest	0.840	1.264	1.275	PASS		
	Middle	0.830 _{W5}	1.275	1.273	PASS _{V5}		
/	Highest	0.841	1.252	1.275	PASS		
		7		•			

Test plots as follows: W5 C W5C7 W5 CT W5 C1 W5 C1 W5 C1 W5 CT W5 ET W5 E1 WSET WSCI W5 CT W5 CT WS ET W5E1 W5C1 W5E W5 C W5C W5 CI W5 CT W5C1 WS ET WS CT W5 E1 W5CT

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1W5[T] World Standardization Certification & Testing Group (Shenzhen) Co.,ltd. Report No.: WSCT-ANAB-R&E240800043A-BT

Occupied Bandwidth
1.1634 MHz

-4.175 kHz

1.275 MHz

Transmit Freq Error

?

x dB Bandwidth





W5 CT -20dB Bandwidth 3-DH5 2480MHz Spectrum Analyzer 1 Occupied BW SCPI + Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) Center Freq: 2.480000000 GHz Avg|Hold: 100/100 Radio Std: None Atten: 30 dB Preamp: Off Trig: Free Run Gate: Off KEYSIGHT Input: RF Align: Auto #IF Gain: Low Mkr3 2.480633000 GHz 1 Graph Ref Lvi Offset 4.33 dB Ref Value 24.33 dBm -17.34 dBm Scale/Div 10.0 dB δ<mark>2</mark> Center 2.480000 GHz #Res BW 30.000 kHz Span 2 MHz Sweep 2.67 ms (10001 pts) #Video BW 91.000 kHz 2 Metrics 15 E

Measure Trace

% of OBW Power

Total Power

x dB

Trace 1

14.3 dBm

99.00 % -20.00 dB

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6.5. Carrier Frequencies Separation

6.5.1. Test Specification 5

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W5CT

W5 CT

X	Test Requirement:	FCC Part15 C Section 15.247 (a)(1)	
WSCT	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 WS [7]	
	Test Mode:	Hopping mode	
WSET	Took Duoo adama	 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. 	WSCT
WSET	Test Procedure:	 5. 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. 6. 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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W5 C1

W5 C1

W5 C1

	WELL	W.S. F.T.	75 F T	7-1-1
1	Test channel	Carrier Frequencies Separation (MHz)	Limit (MHz)	Result
3	Lowest	1.148	0.560	PASS
	Middle	0.812	0.553	PASS
	Highest	1.000	0.561	PASS

Pi/4 DQPSK mode Carrier Frequencies Limit (MHz) Test channel Result Separation (MHz) 1.002 0.843 **PASS** Lowest Middle 0.851 0.850 **PASS** Highest 0.846 0.835 **PASS**

	8DPSK mode			
10	Test channel	Carrier Frequencies Separation (MHz)	Limit (MHz)	Result
	Lowest	0.880	0.850	PASS
	Middle	1.002	0.849	PASS
-	Highest	0.996	0.850	PASS

WSET WSET WSET WSET WSET

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W5 CT

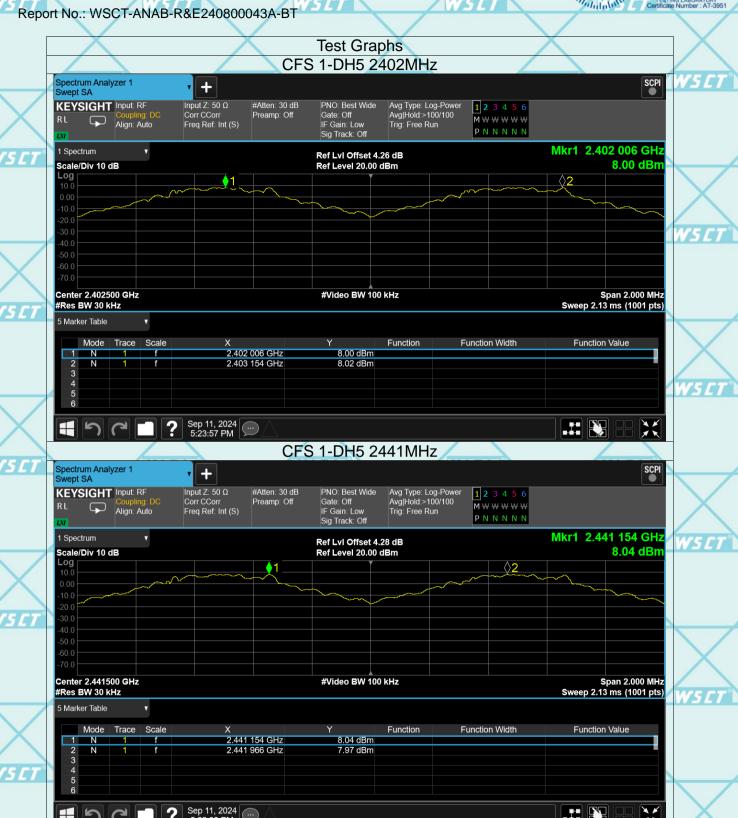
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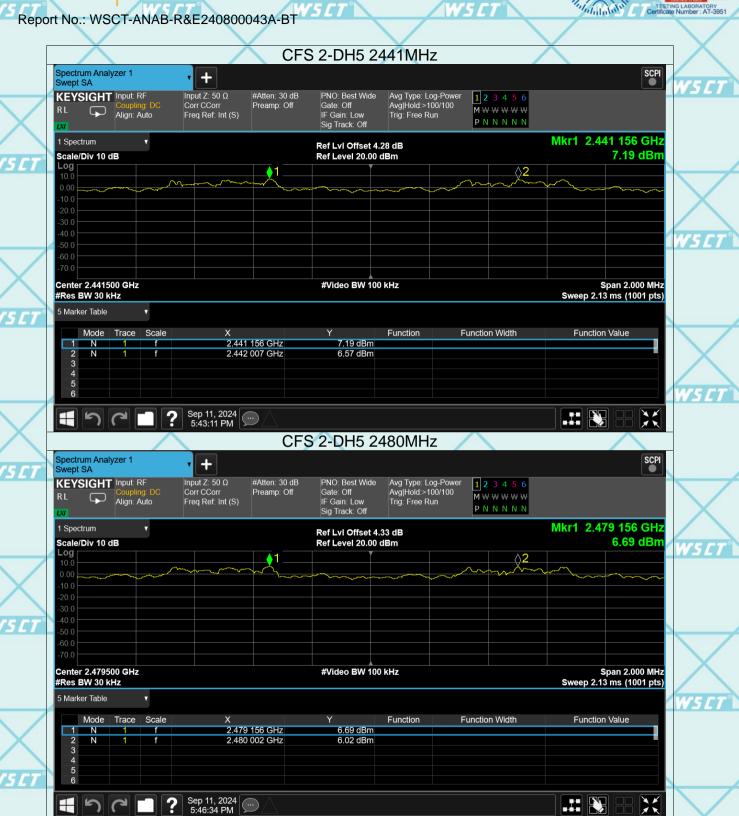
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WSET









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W5CT"

6.6. Hopping Channel Number

W5 CT

W5 CT

W5 CT

6.6.1. Test Specification

WSCT	Test Requirement:	FCC Part15 C Section 15.247 (a)(1)	
AW361	Test Method:	ANSI C63.10:2014	
	Limit:	Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.	\angle
WSET	Test Setup:	Spectrum Analyzer EUT WS CT	WSET
	Test Mode:	Hopping mode	$\overline{}$
WSET		 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 	W5 CT
WSET	Test Procedure:	 EUT transmit continuously. 4. Enable the EUT hopping function. 5. 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 = auto; Detector function = peak; Trace = max hold. 6. The number of hopping frequency used is defined as 	WSCT
	Test Result:	the number of total channel. 7. Record the measurement data in report. PASS	WSOT
	1717		117.4

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WSET

WSCT



W5CT"





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W5 CT

6.6.2. Test data

	Mode	Hopping channel numbers	Limit	Result	W5C1
	GFSK, P/4-DQPSK, 8DPSK	79	15	PASS	
_					l

Test plots as follows: W5 CI W5E7 W5 CI W5CI WS E1 W5 C7 W5 CT W5 CI W5 E1 WS C WS CI WSEI W5 CT W5 CT WS ET W5E1 W5 C1 W5 C W5 C W5 C W5 CI

W5 CI WS ET W5 CT

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W5 C1

W5 C1

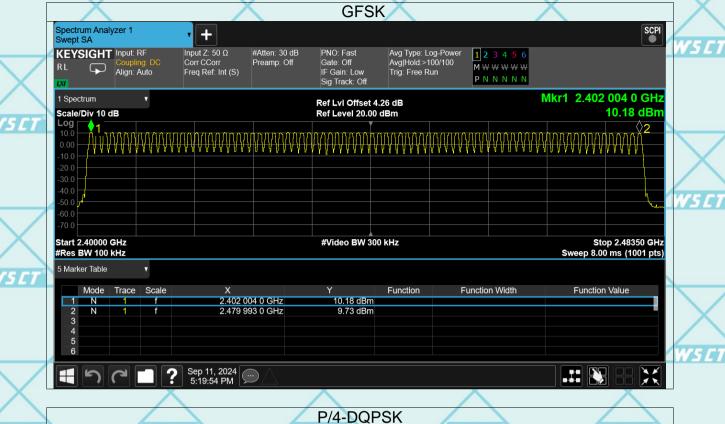
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6.7. Dwell Time

6.7.1. Test Specification 5

W5CT[®]

W5 CT

AWS CT

W5 CT

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.	WSET
X	Test Setup:	Spectrum Analyzer EUT	
W5CT"	Test Mode:	Hopping mode WSET WSET	
WSET	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	\triangle
	MPL	Wall	WSLT

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