

TEST REPORT

FCC ID: 2AIZN-X6857

Product: Mobile Phone

WSLI

WSCI

Model No.: X6857

Trade Mark: Infinix

Report No.: WSCT-ANAB-R&E250100002A-BT

Issued Date: 14 February 2025

W5CT

Issued for:

INFINIX MOBILITY LIMITED

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

Issued By:

WSET

WSCI

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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WSUT

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apply to the tested sample.

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Report No.: WSCT-ANAB-R&E250100002A-BT

Test Certification

Product:

Mobile Phone

Model No.:

X6857

Additional Model:

Infinix

Applicant:

INFINIX MOBILITY LIMITED FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN

MEI STREET FOTAN NT HONGKONG

WSET

Manufacturer:

INFINIX MOBILITY LIMITED W/5/4 FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN

MEI STREET FOTAN NT HONGKONG

Date of Test:

10 December 2024 to 13 February 2025

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.

Tested By:

Checked By:

W5CT

(Wang Xiang)

(Qin Shuiquan)

V45E7

Approved By:

(Li Huaibi)

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Test Result Summary 2.

	WELLS WELL	T	WEET	77
7	Requirement	CFR 47 Section	Result	1
	Antenna Requirement	§15.203/§15.247 (c)	PASS	
7 °	AC Power Line Conducted Emission	WSET §15.207	PASS PASS	7
_	Maximum conducted output power W5.1	§15.247 (b)(1) §2.1046	W5 PASS	W
	20dB Occupied Bandwidth	§15.247 (a)(1) §2.1049	PASS	
	Carrier Frequencies Separation	§15.247 (a)(1)	PASS	7
	Hopping Channel Number	§15.247 (a)(1)	PASS	4
/	Dwell Time	§15.247 (a)(1)	PASS	
	Radiated Emission	§15.205/§15.209 W §2.1053, §2.1057 W 5 ET	PASS _{V5 [T]}	_
	Band Edge	§15.247(d) §2.1051, §2.1057	PASS	

Note:

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- 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.

	Product Name:	Mobile Phone WSCT WSCT	V5CT°
/	Model :	X6857	
	Trade Mark:	Infinix	
51	Operation Frequency:	2402MHz~2480MHz	$\overline{}$
	Channel Separation:	1MHz	\times
	Number of Channel:	797 WSET WSET	V5 CT
(Modulation Type:	GFSK, π/4-DQPSK, 8-DPSK	
C T	Antenna Type:	Integral Antenna W5 C7	
	Antenna Gain:	-0.92dBi	
	Operating Voltage:	Adapter: U450XSB Input: 100-240V~50/60Hz 1.8A Output: 5.0V3.0A 15W or 5.0-10.0V4.5A or 11.0V4.1A 45.0W MAX Rechargeable Li-ion Polymer Battery Model: BL-54BX Rated Voltage: 3.91V Rated Capacity: 5100mAh Nominal Energy: 19.95Wh Typical Capacity: 5200mAh Limited Charge Voltage: 4.50V	WSET
/	Remark:	N/A.	WSET I
	Nota: 1 NI/A atanda far na appli	aphla	

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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modulation mode.

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

	O P O I GITTO	11 10 9 010110	y care ii c				,	
,	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		WSET		WSCT
	10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
	11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
	<u>/</u>		<u></u>		/	<u></u>	/	
7	184	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	$FSK \pi/4-DC$	OPSK. 8D	OPSK /

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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.

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

'an Industrial Park, No.58 a

ANAB - Certificate Number: AT-3951

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

	WSET	WSLT	WSET	W5 ET	WSET
WSI	$\langle \hspace{0.1cm} \rangle$	$\langle \hspace{0.2cm} \hspace{0.2cm}$			SET
	WSET	W5ET*	WSET	WSCT	WSCT
WS	$\langle \hspace{0.1cm} \rangle$	$\langle \rangle$			SET*
	WSET	WSET	WSET	WSCT	WSCT
WS	$\langle \hspace{0.1cm} \rangle$	$\langle \hspace{0.2cm} \hspace{0.2cm}$	$\langle \hspace{0.1cm} \rangle$		SET°
	WSET	WSET	WSET	\times	\times
W/51	$\langle \hspace{0.1cm} \rangle$	$\langle \rangle$		ordization	WSET Standard Testing Chapter Standard

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5.3. **Measurement Uncertainty**

	ALTERNA			1400
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%	4
7	5	Transmitter Unwanted Emission in the out-of Band	±1.3%	W5
	6	Transmitter Unwanted Emissions in the Spurious Domain	±2.5%	
7°	7	Receiver Spurious Emissions	±2.5% [7]	
	8	Conducted Emission Test	±3.2dB	
	9 W 5 /	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 [7]	
	13	Temperature	±0.5°C	
	14	Humidity WS.CT	±2.0%	W5

NOTE:1. The reported uncertainty of measurement y ± 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 comliant with harmonized standard does not increase the probability of passing a EUT that would otherwise have failed a test if a test system comliant with harmonized standard had been used.

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5.4. MEASUREMENT INSTRUMENTS

	5.4. WEASU	KEMENTINSTR	COMENIA				\wedge
_	NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.	75 C T
\langle	Test software		EZ-EMC	CON-03A	-	Χ-	
	Test software		MTS8310	WSCT	- /	75 CT	
	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 T
	Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	11/05/2024	11/04/2025	
51	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	
	Pre Amplifier	IH.P. <i>ET</i>	HP8447E 5 /	2945A02715	11/05/2024	11/04/2025	15 E T
	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 L	W.S ET	11/05/2024	11/04/2025	
	Horn Antenna	COMPLIANCE ENGINEERING	CE18000		11/05/2024	11/04/2025	\times
	Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	11/05/2024	11/04/2025	15 E T
	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	
4	Turn Table	ccs	V5 / 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	6502W54	00042960	11/05/2024	11/04/2025	15 E T
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	WSU	11/05/2024	11/04/2025	
	Spectrum Analyzer	Keysight	N9010B	MY60241089	11/05/2024	11/04/2025	X

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6. Test Results and Measurement Data

6.1. 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 -0.92dBi.

Please refer to the attached "X6857 Internal Photo" for the antenna location

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Conducted Emission 6.2.

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	6.2.1. Test Specification	WSET	W		WSET"
X	Test Requirement:	FCC Part15 C Section	15.207	X	
Test Requirement: FCC Part15 C Section 15.207 Test Method: ANSI C63.10:2014 Frequency Range: 150 kHz to 30 MHz Receiver setup: RBW=9 kHz, VBW=30 kHz, Sweep time=auto Frequency range Limit (dBuV) (MHz) Quasi-peak Av 0.15-0.5 66 to 56* 56 0.5-30 60 Reference Plane	WSET				
	Frequency Range:	150 kHz to 30 MHz			\times
	Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	=auto	WSET
WSET		(MHz) 0.15-0.5 0.5-5	Quasi-peak 66 to 56*	Average 56 to 46* 46 50	
		Reference	Plane		X
	WSCT WSC	40cm	80cm T		W5 CT
WSET	\times	Test table/Insulation plane Remark: E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Ne	EMI Receiver	— AC power	W5 ET
\times	Test Mode:	Refer to item 4.1	X	X	
WSET	\times	impedance stabilized provides a 50ohm/5 measuring equipmer 2. The peripheral device	ation network OuH coupling im nt. es are also conne	(L.I.S.N.). This pedance for the ected to the main	WSET
WSLT		coupling impedance refer to the block photographs).	with 500hm term diagram of the	nination. (Please test setup and	
	WSET WSE	conducted interferent emission, the relative the interface cables	nce. In order to find e positions of equi must be changed	nd the maximum ipment and all of according to	\times
X	Test Result:	PASS	X	W.S	C7° 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	WSET	WSET
WSI		CT WS		<	VS CT
	WSCT	WSET	WSCT	WSET	WSET
WSI		CT WS		<)	VS CT°
	WSET	WSET	WSLT	WSCT	WSET
WSU		$\langle \hspace{0.1cm} \rangle$		$\langle $	VSCT
	WSCT	WSET	WSET	WSET	WSET
WSI		$\langle \hspace{0.1cm} \rangle$			VS CT°
	WSCT	WSET	WSET	WSET	Codification & Testino C. T.
WSI		CT WS		TET V	oj per proprio
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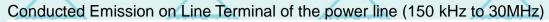


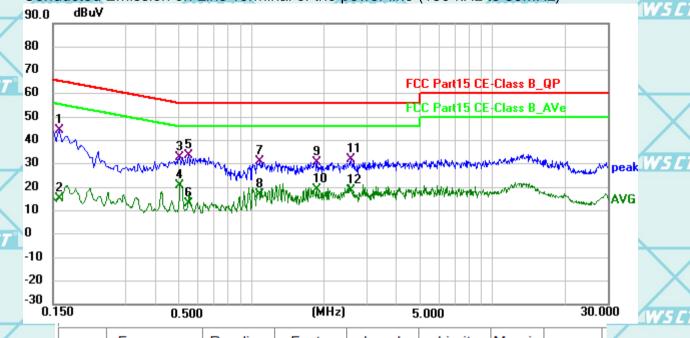


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Test data





_					_				
	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	
	1 *	0.1590	23.62	20.72	44.34	65.52	-21.18	QP	7
	2	0.1590	-5.43	20.72	15.29	55.52	-40.23	AVG	
	3	0.5055	12.48	20.51	32.99	56.00	-23.01	QP	X
	4	0.5055	0.35	20.51	20.86	46.00	-25.14	AVG	WSC
4	5	0.5460	13.31	20.52	33.83	56.00	-22.17	QP	/ UFIG
	6	0.5460	-7.28	20.52	13.24	46.00	-32.76	AVG	
	7	1.0815	10.46	20.67	31.13	56.00	-24.87	QP	
	8	1.0815	-3.91	20.67	16.76	46.00	-29.24	AVG	
	9	1.8600	10.19	20.62	30.81	56.00	-25.19	QP	\times
	10	1.8600	-1.75	20.62	18.87	46.00	-27.13	AVG	
2	11	2.5845	11.14	20.60	31.74	56.00	-24.26	QP	W5C
	12	2.5845	-2.15	20.60	18.45	46.00	-27.55	AVG	

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A C C R E D I T E D

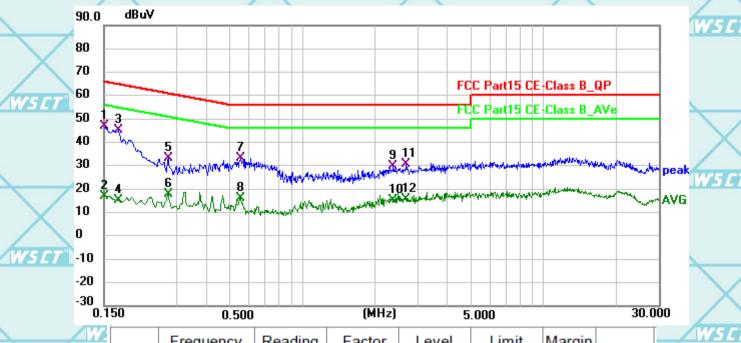
SOURCE TOPS

TESTING LABORATORY

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



									and the same of th
2	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	
	1 *	0.1500	26.07	20.73	46.80	66.00	-19.20	QP	
	2	0.1500	-3.67	20.73	17.06	56.00	-38.94	AVG	.7
	3	0.1725	24.46	20.71	45.17	64.84	-19.67	QP	
	4	0.1725	-5.60	20.71	15.11	54.84	-39.73	AVG	
7	5	0.2760	12.50	20.64	33.14	60.94	-27.80	QP	
	6	0.2760	-3.00	20.64	17.64	50.94	-33.30	AVG	/
	7	0.5550	12.83	20.52	33.35	56.00	-22.65	QP	
	8	0.5550	-4.52	20.52	16.00	46.00	-30.00	AVG	7
	9	2.3820	9.16	20.60	29.76	56.00	-26.24	QP	
	10	2.3820	-5.48	20.60	15.12	46.00	-30.88	AVG	
	11	2.7015	9.95	20.60	30.55	56.00	-25.45	QP	
#	12	2.7015	-4.82	20.60	15.78	46.00	-30.22	AVG	
				\ /					/

Note1:

Freq. = Emission frequency in MHz

Reading level ($dB\mu V$) = Receiver reading /5

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

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

Limit (dBµV) = Limit stated in standard

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

Q.P. =Quasi-Peak AVG =average

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



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W5CT"

6.3. Conducted Output Power

W5 CT

W5CT

W5CT

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.
Test Setup:	Spectrum Analyzer EUT
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.
	PASS

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6.3.2. Test Data

	GFSK mode				
	Test channel	Maximum conducted output power (dBm)	Limit (dBm)	Result	
0	Lowest	9.73	20.97	PASS	
-	Middle	9.80	20.97	PASS	
	Highest	9.21	20.97	PASS	

7		Pi/4DQPSK	mode	
	Test channel	Maximum conducted output power (dBm)	Limit (dBm)	Result
	Lowest	6.765	20.97	PASS
	Middle	7.02	20.97	PASS
	Highest	8.74	20.97	PASS

_					
	8DPSK mode				
	Test channel	Maximum conducted output power (dBm)	Limit (dBm)	Result	
	Lowest	6.68	20.97	PASS	
	Middle	7.14	20.97	PASS	
	Highest	W5 [T] 8.48	20.97	PASS	
\neg					

Test plots as follows:

WSET	W5 C	7 WS	ET V	VS ET	WS CT"
	WSET [®]	WSLT	WSET	W5 ET	WSCT
			/		
WSCT	WSC	7	777	WSCT	WSCT

W5 CT W5 ET W5 ET W5 ET

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W5 CT

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W5 CT

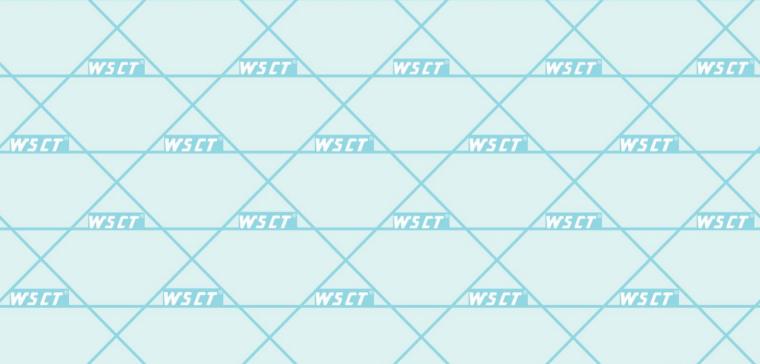








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WS C









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W5CT

6.4. 20dB Occupy Bandwidth

6.4.1. Test Specification 5

W5ET[®]

W5CT°

W5 CT

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
X	Test Setup:	Spectrum Analyzer EUT	WSET
WSET	Test Mode:	Transmitting mode with modulation	
W5 ET	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. 	WSCT
	Test Result:	PASS	

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W5ET



ANSI National Accreditation Board
A C C R E D I T E D

SOURCE FORM
TESTING LABORATORY
Certificate Number: 47-3951

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W5CT°

6.4.2. Test data

7	Test channel	200	dB Occupy Band	width (MHz)	
	rest channel	GFSK	π/4-DQPSK	8DPSK	Conclusion
	Lowest	0.832	1.271	1.287	PASS
	Middle	0.835 _{W5}	1.278	1.289	PASS _{V5}
/	Highest	0.841	1.281	1.296	PASS

Test plots as follows: W5 C1 WSET W5 C1 W5 CT W5 CT W5 C7 W5 ET W5 CT W5CT W5 C7 W5E7 W5 CT W5 ET W5CT W5 CT W5 CT

WSCT	W5 ET*	WSET	W5 ET	WSET®
X	X	\times	\times	\times

W5 CT	W5 CT°	W5 ET	W5 CT	W5 ET

WSLT		5 E T W.	SET WS	scation& Testia
\times	\times			WSCT OCOLONS

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MON #

Center 2.441000 GHz

Occupied Bandwidth
1.1724 MHz

Transmit Freq Error x dB Bandwidth

2 Metrics





WSET -20dB Bandwidth NVNT 3-DH5 2402MHz Ant1 Spectrum Analyzer 1 Occupied BW SCPI + Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) Trig: Free Run Gate: Off #IF Gain: Low Center Freq: 2.402000000 GHz Avg|Hold: 100/100 Radio Std: None KEYSIGHT Input: RF Alian: Auto Mkr3 2.402645000 GHz Ref Lvi Offset 2.26 dB Ref Value 22.26 dBm -17.83 dBm Scale/Div 10.0 dB Center 2.402000 GHz #Res BW 30.000 kHz Span 2 MHz Sweep 2.67 ms (10001 pts) #Video BW 91.000 kHz 2 Metrics Measure Trace Trace 1 Occupied Bandwidth
1.1825 MHz Total Power 1.365 kHz 1.287 MHz 99.00 % -20.00 dB Transmit Freq Error % of OBW Power x dB Bandwidth x dB ? Jan 10, 2025 ** -20dB Bandwidth NVNT 3-DH5 2441MHz Ant1 Spectrum Analyzer 1 Occupied BW SCPI + Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) KEYSIGHT Input: RF Atten: 30 dB Preamp: Off Center Freq: 2.441000000 GHz Trig: Free Run Gate: Off #IF Gain: Low Avg|Hold: 100/100 Radio Std: None Align: Auto Mkr3 2.441645000 GHz 1 Graph Ref Lvi Offset 2.28 dB Ref Value 22.28 dBm -17.65 dBm Scale/Div 10.0 dB

WSCT WSCT WSCT WSCT WSCT

380 Hz

1.289 MHz

W5CT W5CT W5CT W5CT W5CT W5CT

#Video BW 91.000 kHz

Measure Trace

% of OBW Power

Total Power

Trace 1

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Span 2 MHz Sweep 2.67 ms (10001 pts)

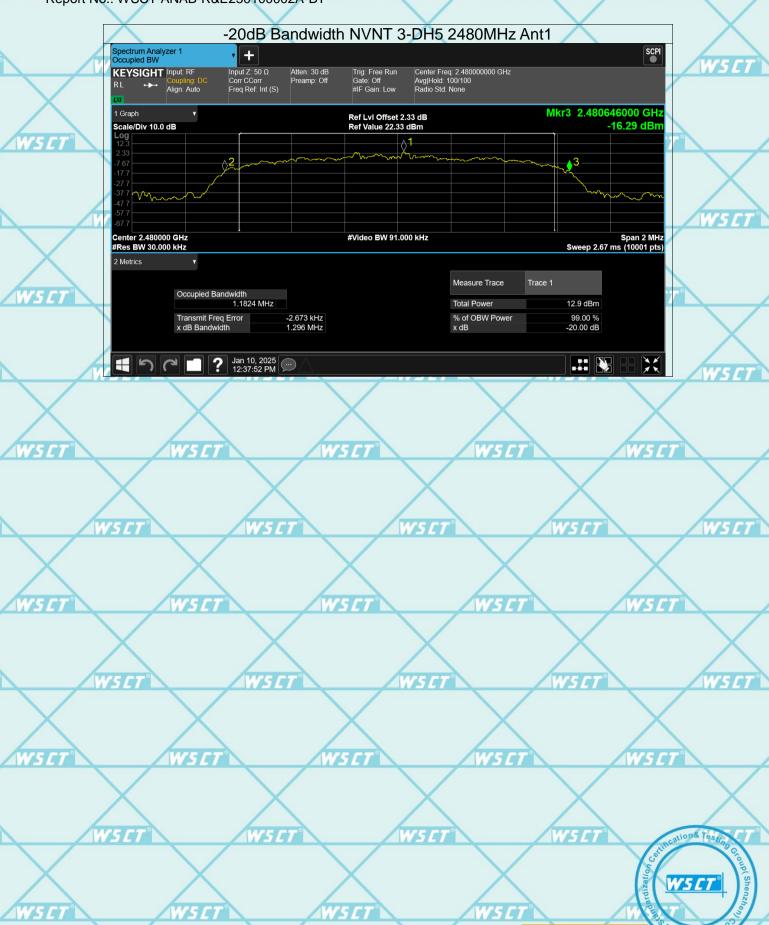
11.5 dBm

99.00 %

-20.00 dB

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W5 [T]

6.5. Carrier Frequencies Separation

6.5.1. Test Specification	6.5.1.	Test	Specif	ication
---------------------------	--------	------	--------	---------

W5[T]

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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:	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
WSLT	Test Setup:	Spectrum Analyzer EUT W5.5.7	
	Test Mode:	Hopping mode	
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 = 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. 	WSET
	Test Result:	PASS	

	AWSET I		WSLI	AWS E		AWS LT		TSLI
		X		X	X		X	
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WSCT

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W5 CT

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6.5.2. Test data

	WCTT	WC-T-	IC FT		
GFSK mode					
	Test channel	Carrier Frequencies Separation (MHz)	Limit (2/3*20dB BW MHz)	Result	
	Lowest	1.148	0.555	PASS	
	Middle	0.998	0.557	PASS	
	Highest	0.998	0.561	PASS	

		Pi/4 DQPSK mode				
0	Test channel	Carrier Frequencies Separation (MHz)	Limit (2/3*20dB BW MHz)	Result		
	Lowest	1	0.847	PASS		
	Middle	1	0.852	PASS		
	Highest	W5_T 0.996	5_7 0.854 W	5 CT PASS		

		8DPSK m	ode	
	Test channel	Carrier Frequencies Separation (MHz)	Limit (2/3*20dB BW MHz)	Result
	Lowest	0.996	0.858	PASS
	Middle	1.004	0.859	PASS
1	Highest	0.988	0.864	PASS

Test plots as follows:

	WSIT	WSCT	WSCT	WSGT	WSIT
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W5 ET WSET W5 ET W5 ET

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W5 CT

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W5 CT

W5 CT

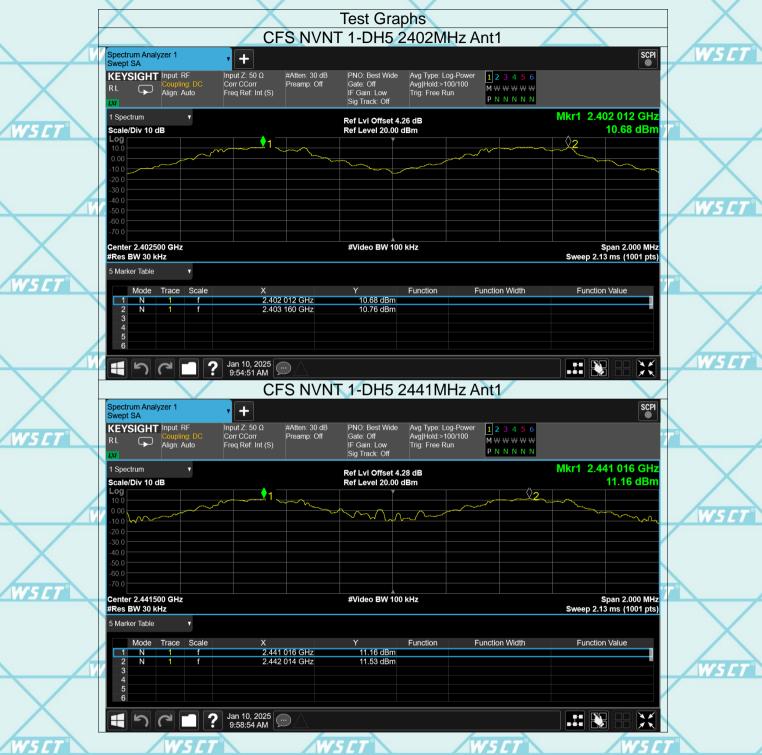
W5 CT

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W5 CT

Test Graphs





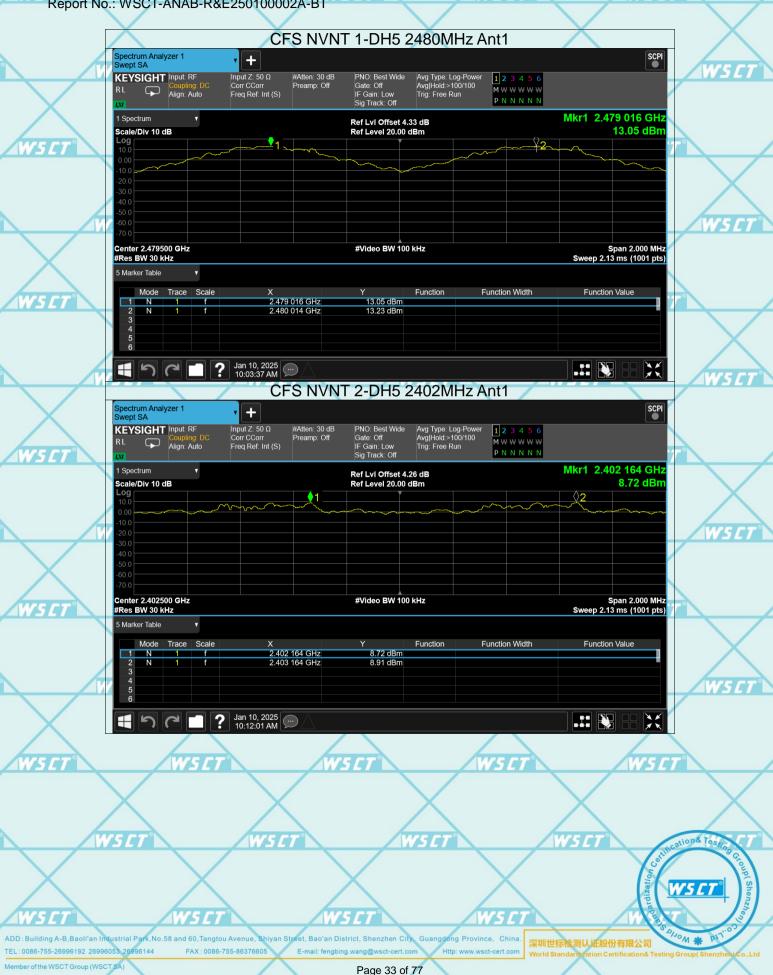




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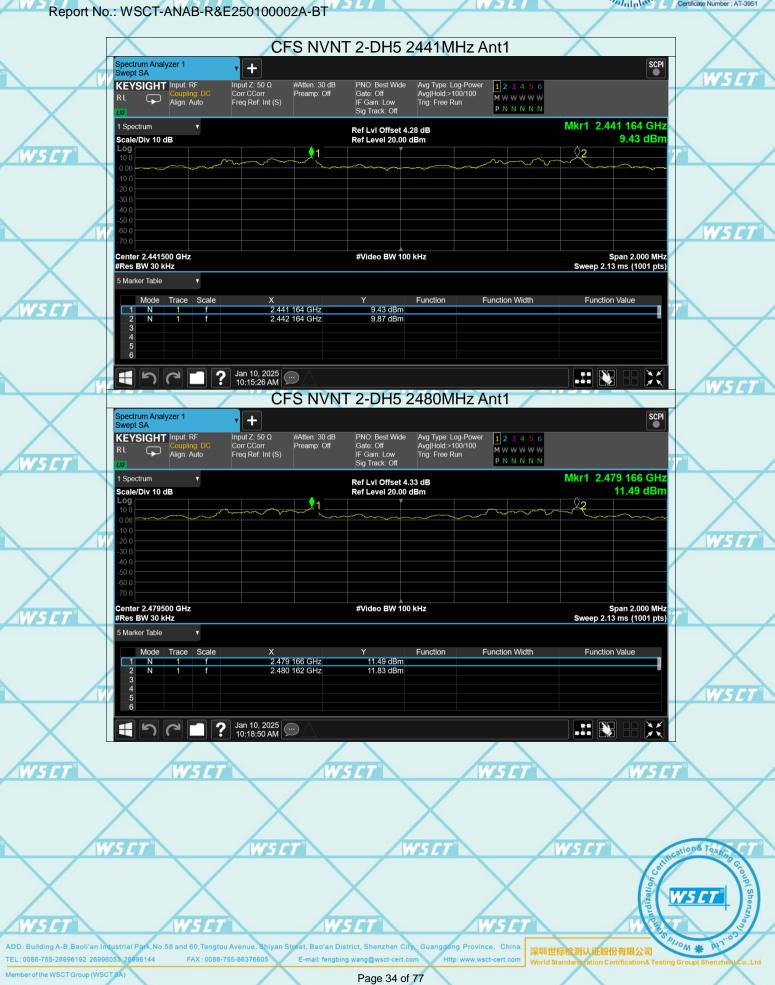




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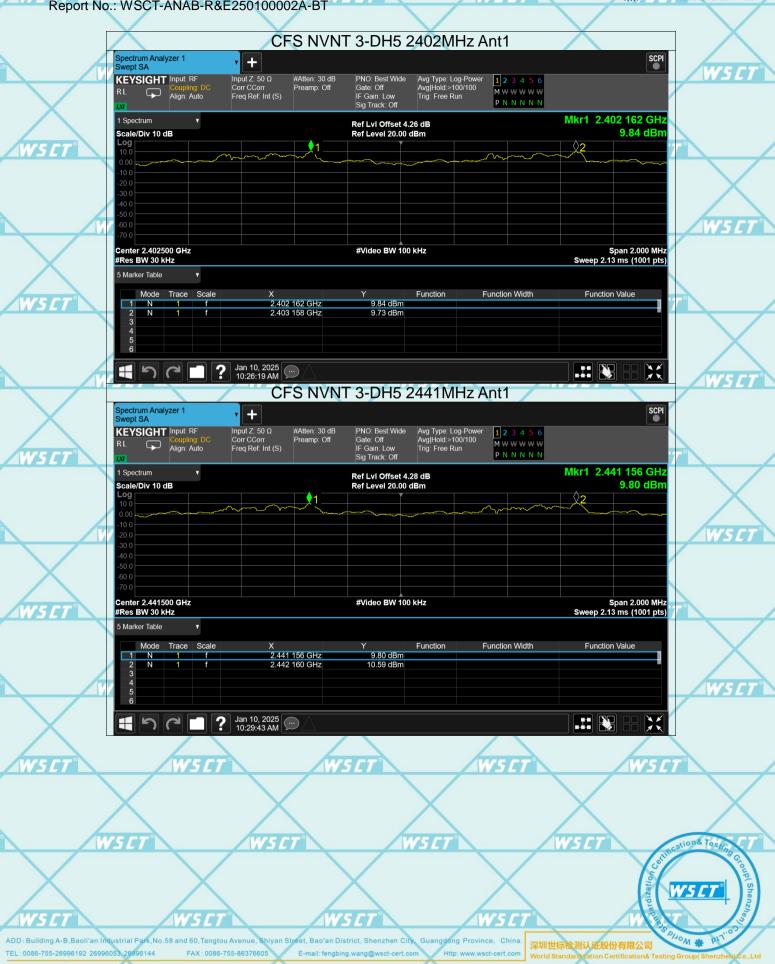
WSET







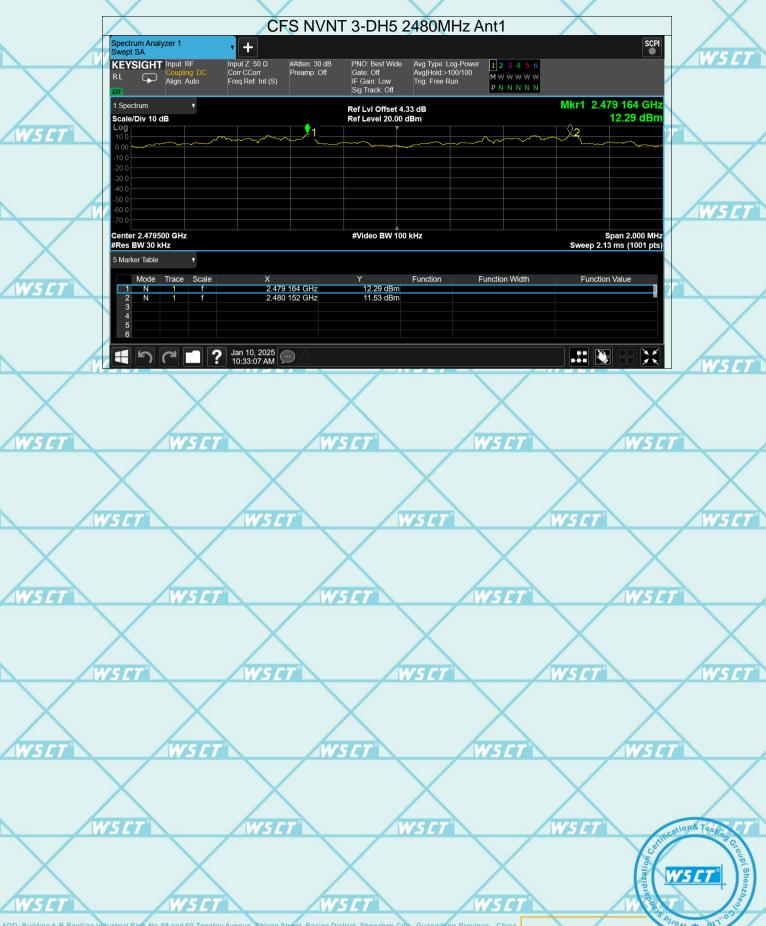
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W5 CT

6.6. Hopping Channel Number

W5ET

W5 CT

W5ET

6.6.1. Test Specification

WSET	Test Requirement:	FCC Part15 C Section 15.247 (a)(1)	
	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 W5///	WS ET*
	Test Mode:	Hopping mode	
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 = 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. The number of hopping frequency used is defined as the number of total channel. Record the measurement data in report. 	WSET
	Test Result:	PASS PASS	
	MSL	WSU WSU	WSCT

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W5 CT

WSET

WELT

WSET

WSET

W5 CT

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6.6.2. Test data

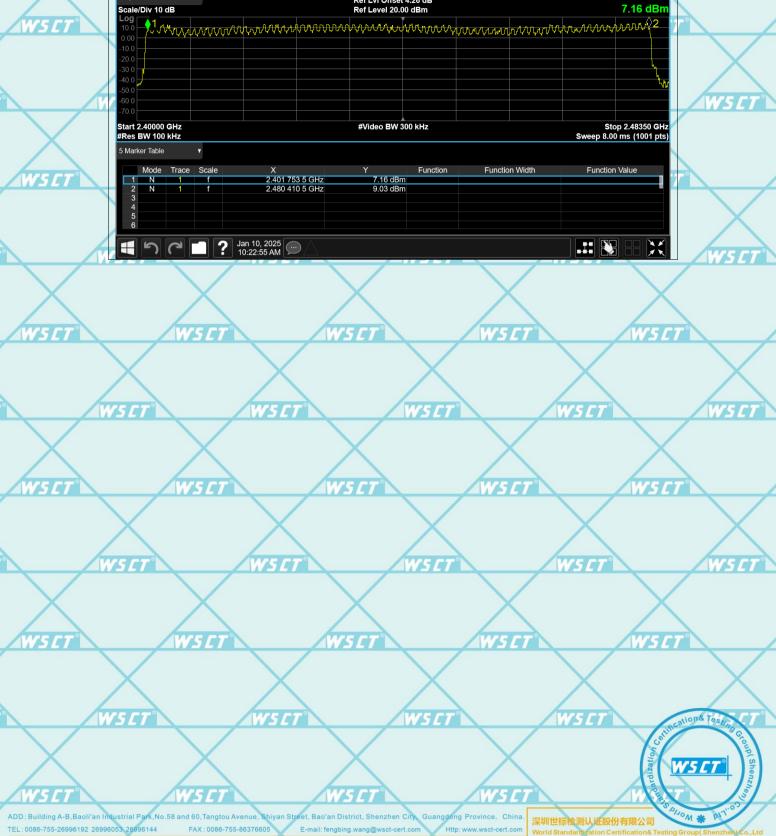
Mode	Hopping channel numbers	Limit	Result	W5L
GFSK, P/4-DQPSK, 8DPSK	79	15	PASS	

Test plots as follows: **Test Graphs** Hopping No. NVNT 1-DH5 2402MHz Ant1 Spectrum Analyzer 1 Swept SA SCPI Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Atten: 30 dB Preamp: Off KEYSIGHT Input: RF 1 2 3 4 5 6 M \ \ \ \ \ \ \ \ \ \ \ \ \ \ Align: Auto PNNNN Mkr1 2.402 004 0 GHz 1 Spectrum Ref LvI Offset 4.26 dB Ref Level 20.00 dBm 12.82 dBm Scale/Div 10 dB Stop 2.48350 GHz Sweep 8.00 ms (1001 pts) Start 2.40000 GHz #Video BW 300 kHz #Res BW 100 kHz 2.402 004 0 GHz 2.480 160 0 GHz 12.82 dBm 15.23 dBm 7 Jan 10, 2025 9:50:48 AM * * Hopping No. NVNT 2-DH5 2402MHz Ant1 Spectrum Analyzer 1 Swept SA SCPI Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) KEYSIGHT Input: RF PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Avg Type: Log-Power Avg|Hold:>100/100 Trig: Free Run 1 2 3 4 5 6 M \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ Align: Auto Mkr1 2.402 004 0 GHz Ref LvI Offset 4.26 dB Ref Level 20.00 dBm Scale/Div 10 dB Start 2.40000 GHz #Res BW 100 kHz #Video BW 300 kHz Stop 2.48350 GHz Sweep 8.00 ms (1001 pts) Function Value Function Width 2.402 004 0 GHz 2.479 993 0 GHz 14 55 dBm Jan 10, 2025 ** W5C1

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Report No.: WSCT-ANAB-R&E250100002A-BT

6.7. **Dwell Time**

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W5CT

X	Test Requirement:	FCC Part15 C Section 15.247 (a)(1)	
WSET	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.	WSCT
X	Test Setup:	Spectrum Analyzer EUT	
W5 CT	Test Mode:	Hopping mode W5 [T] W5 [T]	
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	
	WSL	Wall	WSLT

W5 CT

WSET

W5 CT

W5 ET

W5CT

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6.7.2. Test Data

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	ME	r T	0
_		54	

	Mode	Frequency	Pulse Time	Total Dwell Time	Burst	Period Time	Limit	Verdict
ı		(MHz)	(ms)	(ms)	Count	(ms)	(ms)	
Γ	1-DH1	2402	0.375	117.75	314	31600	400	Pass
	1-DH1	2441	0.375	119.25	318	31600	400	Pass
>	1-DH1	2480	0.373	116.376	312	31600	400	Pass
	1-DH3	2402	1.63	233.09	143	31600	400	Pass
	1-DH3	2441	1.631	244.65	150	31600	400	Pass
	1-DH3	2480	1.631	243.019	149	31600	400	Pass
	1-DH5	2402	2.878	302.19	105	31600	400	Pass
1	1-DH5	2441	2.879	319.569	111	31600	400	Pass
1	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 $(1600/2/79) \times (0.4 \times 79) = 320 \text{ hops}$

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

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

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

Test plots as follows:

15 C

W5 CI WS CI WS ET

W5C

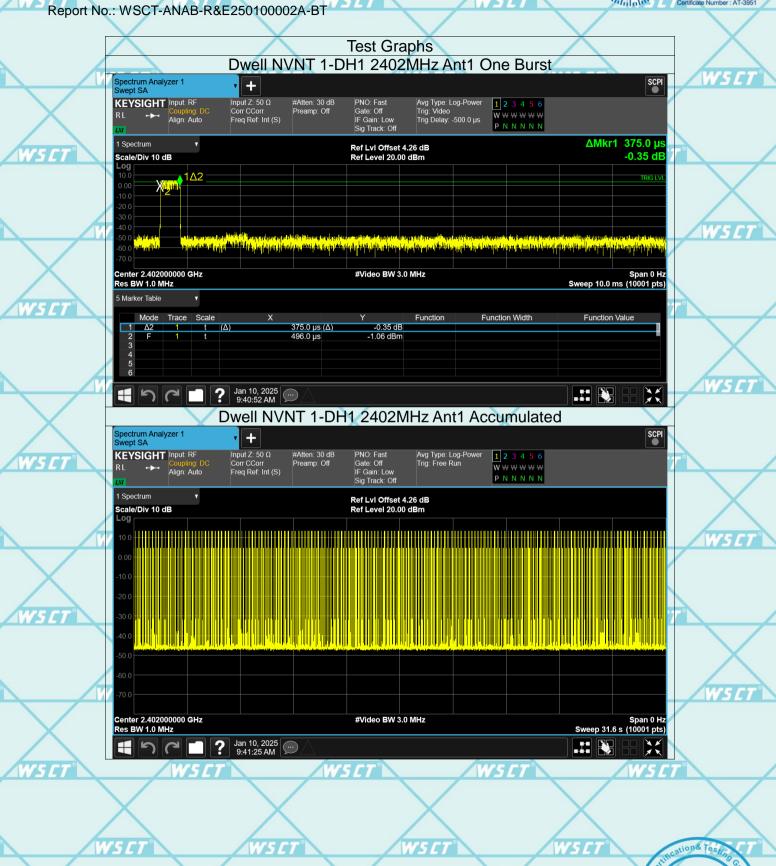
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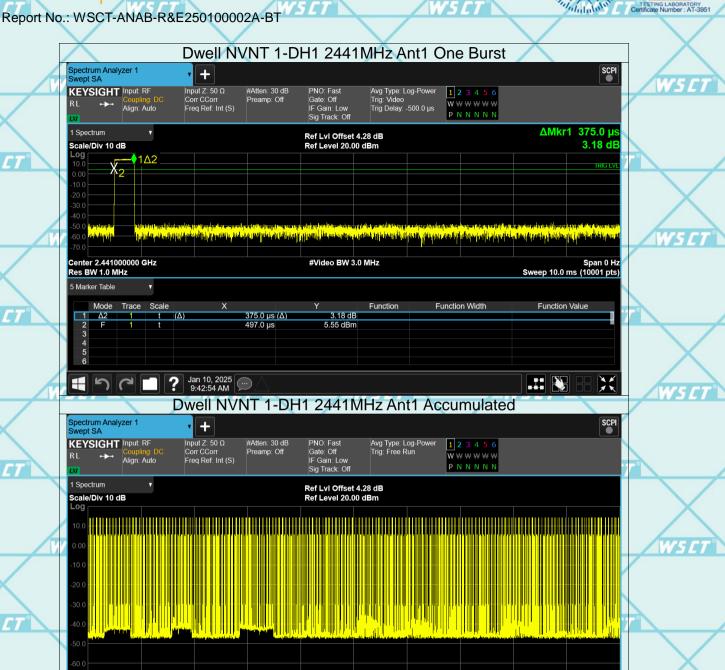
W5 CT











WSCT WSCT WSCT WSCT

#Video BW 3.0 MHz

ADD: Building A-B,Baoli'an Industrial Park,No.58 and 60,Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China TEL: 0086-755-26996192 26996053 26996144 FAX: 0086-755-86376605 E-mail: fengbing.wang@wsct-cert.com Http: www.wsct-cert.com

? Jan 10, 2025 9:43:27 AM

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

Span 0 Hz Sweep 31.6 s (10001 pts)

VS C

Center 2.441000000 GHz

Res BW 1.0 MHz