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TEST REPORT

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FCC ID: 2AXYP-OSW-852H Product: Smart Watch WSCT Model No.: OSW-852H Trade Mark: oraimo Report No.: WSCT-ANAB-R&E241000049A-BT Issued Date: 26 October 2024 CT

Issued for:

ORAIMO TECHNOLOGY LIMITED FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 WS C7SHAN MEI STREET FOTAN NT HONGKONG

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

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/		Indardization Certification & Testing Group (Shenzhen)Co.,Itd.
		tification
	Product:	Smart Watch WSET WSET WSET
X	Model No.:	OSW-852H
4	Trade Mark:	oraimo WSET WSET WSET
WSC	Applicant:	ORAIMO TECHNOLOGY LIMITED FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
X	Manufacturer:	ORAIMO TECHNOLOGY LIMITEDWSLTFLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE19-25 SHAN MEI STREET FOTAN NT HONGKONG
wsc	Date of Test:	12 October 2024 to 26 October 2024 wscr wscr
	Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247
	The above aquin	monthes been to the life in the second s

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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W5ET W5C1 WSE WSET Xio Tested By: Checked By: (Wang Xiang) (Chen Xu) WSE 2 ' WSET WSE Approved By: Date: 0 61.101 (Li Huaibi) WSET WSET W5ET WSCI WSET WSET WSET WSET W5LT W5CT WSE WSET WSCI WSC 深圳世标检测认证股份有限公司 FAX:00 6192 26 53 269 Yorld Standardization Certification& Testing Group(Shenzhen) Co., Ltd Page 3 of 74



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2. Test Result Summary

	And A		Anna	WSET
	Requirement	CFR 47 Section	Result	
\wedge	Antenna Requirement	§15.203/§15.247 (c)	PASS	
WSET	AC Power Line Conducted Emission	§15.207 WSCT	NA	\checkmark
	Conducted Peak Output Power	§15.247 (b)(1) §2.1046	PASS	WSET
WSET	20dB Occupied Bandwidth	§15.247 (a)(1) §2.1049	PASS	
	Carrier Frequencies Separation	§15.247 (a)(1)	PASS	\mathbf{X}
	Hopping Channel Number	§15.247 (a)(1)	WSCPASS	WSET
\sim	Dwell Time	§15.247 (a)(1)	PASS	
WSET	Radiated Emission	§15.205/§15.209 §2.1053, §2.1057 WSC7	PASS	
	Band Edge	§15.247(d) §2.1051, §2.1057	PASS	WSTT
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1. PASS: Test item meets the requirement.

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2. Fail: Testitem 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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	ort No.: WSCT-ANAB-R&E24100 B. EUT Description	
	Product Name:	Smart Watch WSCT WSCT VSCT
X	Model :	OSW-852H
	Trade Mark:	oraimo
WS LT	Operation Frequency:	2402MHz~2480MHz
	Channel Separation:	1MHz
	Number of Channel:	797 WSCT WSCT VSCT
X	Modulation Type:	GFSK, π/4-DQPSK, 8-DPSK
wser	Modulation Technology:	FHSS WSET WSET
	Antenna Type:	PIFA antenna
	Antenna Gain:	-2.59dBi WSCT WSCT VSCT
WSET	Operating Voltage	Rechargeable Li-ion Battery: ZWD582525H Nominal Voltage:3.85V Rated Capacity:470mAh Rated Enregy:1.81Wh Limited Charge Voltage:4.4V
	Remark:	N/A.
	WSET	SET WSET WSET WSET
WSET		WSET WSET WSET
	X	SET WSET WSET
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Operation Frequency each of channel for GFSK, $\pi/4$ -DQPSK, 8DPSK

						-	
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
W05 E7	2402MHz	1/20 <i>L</i> 1	2422MHz	40 <i>C</i>	2442MHz	<u> </u>	2462MHz
1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
					\sim		\sim
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
X		X		X		X	
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
V19 <i>LT</i>	2421MHz	4 /39 <i>L</i> 7	2441MHz	59 C	2461MHz	W5 C	

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

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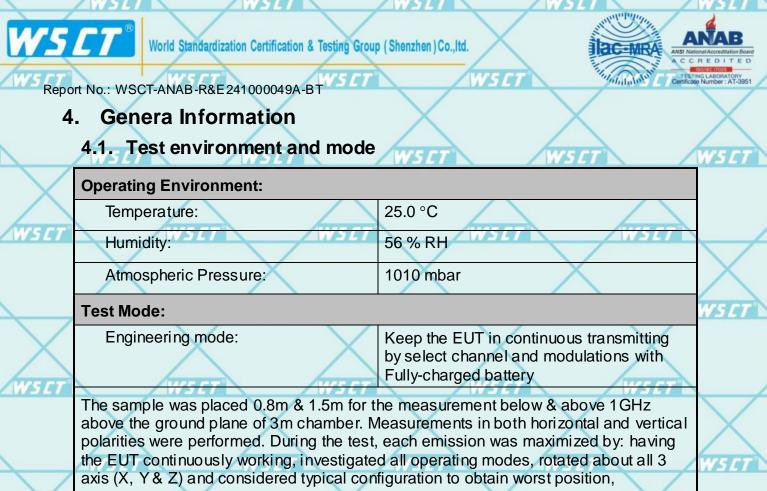


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manipulating interconnecting cables, rotating the turntable, varying antenna height from 1 m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

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.

CT	Equipment	Model No.	Serial No.	FCC ID	Trade Name
	Adapter	XCU32	/ 🗙	/	/

Note:

All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
 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

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

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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

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

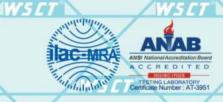
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5.3. Measurement Uncertainty

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 %.

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No.	Item	MU	/
1	Conducted Emission Test	±3.2dB	$\mathbf{\mathbf{\nabla}}$
2	RF power, conducted	±0.16dB	
3	Spurious emissions, conducted	±0.21dB	<i>W5[T</i>]
4	All emissions, radiated(<1GHz)	±4.7dB	
5	All emissions, radiated(>1GHz)7 W5C7	±4.7dB/5_7	_/
6	Temperature	±0.5°C	\mathbf{X}
7	Humidity	±2.0%	WSIT
	1 2 3 4 5	1 Conducted Emission Test 2 RF power, conducted 3 Spurious emissions, conducted 4 All emissions, radiated(<1GHz) 5 All emissions, radiated(>1GHz) 6 Temperature 7 Humidity	1Conducted Emission Test±3.2dB2RF power, conducted±0.16dB3Spurious emissions, conducted±0.21dB4All emissions, radiated(<1GHz)±4.7dB5All emissions, radiated(>1GHz)±4.7dB6Temperature±0.5°C7Humidity±2.0%



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5.4. MEASUREMENT INSTRUMENTS

	5.4. WEASU	REIVIEINI IINSTI				\wedge	
_	NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.	SET
<	Test software	<	EZ-EMC	CON-03A	-	X	
-	Test software	-	MTS8310	WSET	- /	15.57	
	EMI Test Receiver	R&S	ESCI	100005	11/05/2023	11/04/2024	\checkmark
	LISN	AFJ	LS16	16010222119	11/05/2023	11/04/2024	
	LISN(EUT)	Mestec	AN3016	04/10040	11/05/2023	11/04/2024	SET
<	Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	11/05/2023	11/04/2024	
Ci	Coaxial cable	Megalon	LMR400	N/A	11/05/2023	11/04/2024	
	GPIB cable	Megalon	GPIB	N/A	11/05/2023	11/04/2024	\checkmark
	Spectrum Analyzer	R&S	FSU	100114	11/05/2023	11/04/2024	
	Pre Amplifier	H.P.CT	HP8447E 5 /	2945A02715	11/05/2023	11/04/2024	SET
1	Pre-Amplifier	CDSI	PAP-1G18-38	\sim	11/05/2023	11/04/2024	
	Bi-log Antenna	SCHWARZBECK	VULB9168	01488	11/05/2023	11/04/2024	
Ci	9*6*6 Anechoic	[7V	ISET	WSET	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	SET
2	Cable	TIME MICROWAVE	LMR-400	N-TYPE04	11/05/2023	11/04/2024	
5	System-Controller	ccs	N/A	N/A	N.C.R	N.C.R	
C 1	Turn Table	ccs	vs mNA	NA	N.C.R	N.C.R	
	Antenna Tower	CCS	N/A	N/A	N.C.R	N.C.R	\checkmark
	RF cable	Murata	MXHQ87WA300 0	-	11/05/2023	11/04/2024	$\overline{\ }$
_	Loop Antenna	EMCO	6502 <i>W5</i> /	00042960	11/05/2023	11/04/2024	<i>'S [T</i> "
(Horn Antenna	SCHWARZBECK	BBHA 9170	1123	11/05/2023	11/04/2024	
-	Power meter	Anritsu	ML2487A	6K00003613	11/05/2023	11/04/2024	
9	Power sensor	Anritsu	MX248XD	WSLI	11/05/2023	11/04/2024	-/
	Spectrum Analyzer	Keysight	N9010B	MY60241089	11/05/2023	11/04/2024	X
				/		1	

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6. Test Results and Measurement Data

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6.1. Antenna requirement

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.

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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 a 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:

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The Bluetooth antenna is a PIFA antenna. it meets the standards, and the best case gain of the antenna is -2.59dBi.

Please refer to the attachment "OSW-852H Internal Photo" for the antenna location

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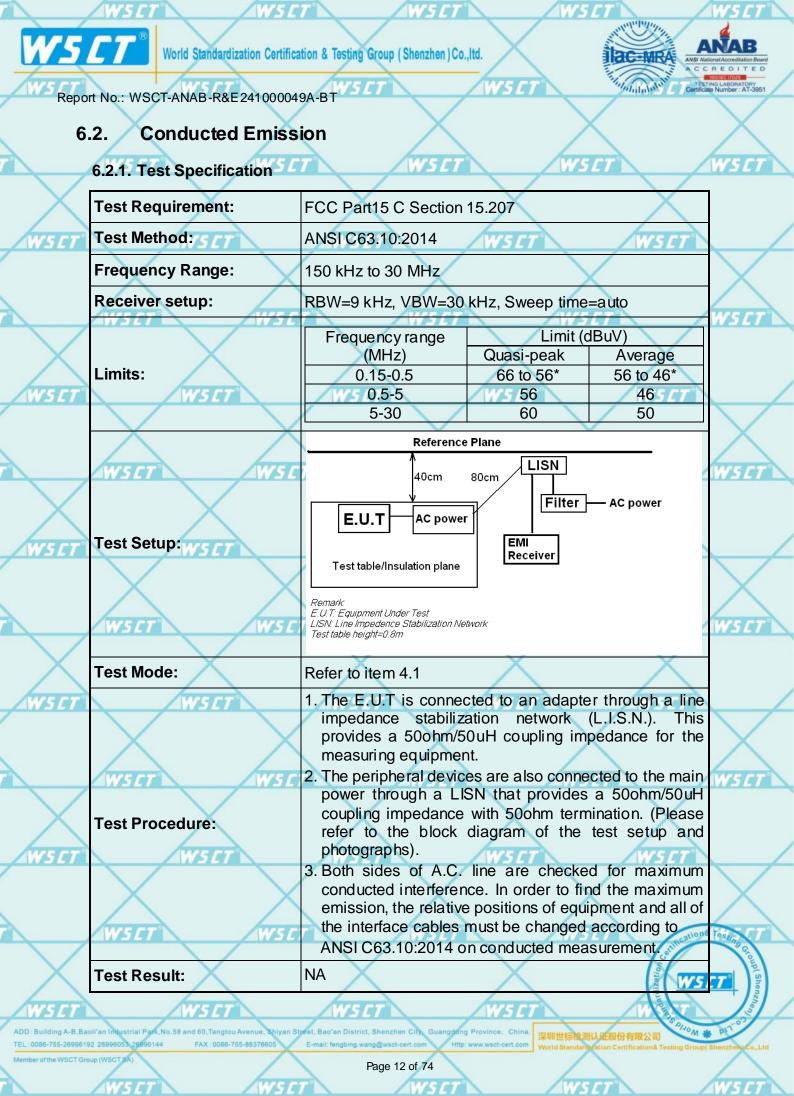
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6.2.2. EUT OPERATING CONDITIONS

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

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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.

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Note: EUT is powered by batteries and cannot transmit normally while charging. This project does not require testing

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6.3. Conducted Output Power

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6.3.1. Test Specification

Å	X X X			
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 ower of the intentional radiator shall not exceed the ollowing: (1) For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 ion-overlapping hopping channels, and all frequency opping 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			
Test Mode:	Transmitting mode with modulation			
Test Procedure:	Use the following spectrum analyzer settings: Span = approximately 5 times the 20 dB band width, centered on a hopping channel RBW > the 20 dB band width 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.			

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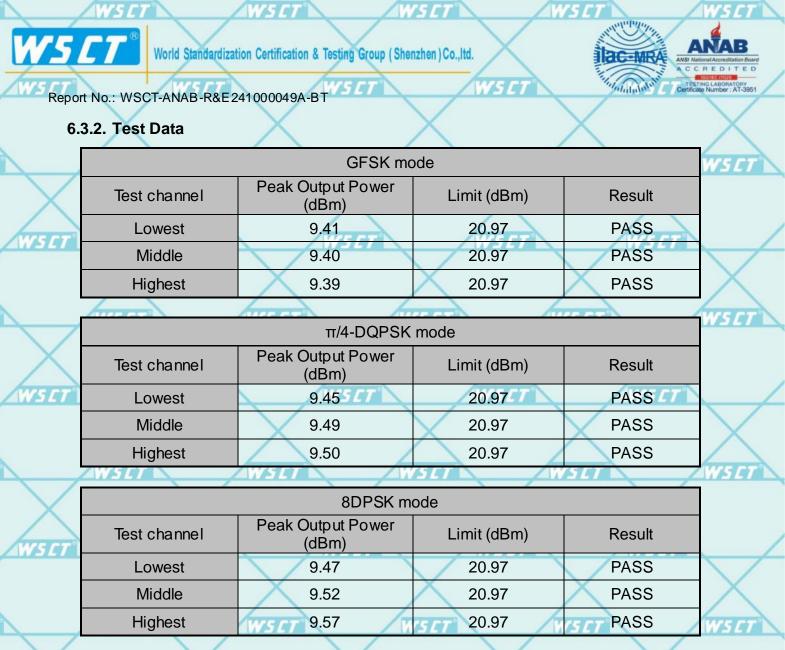
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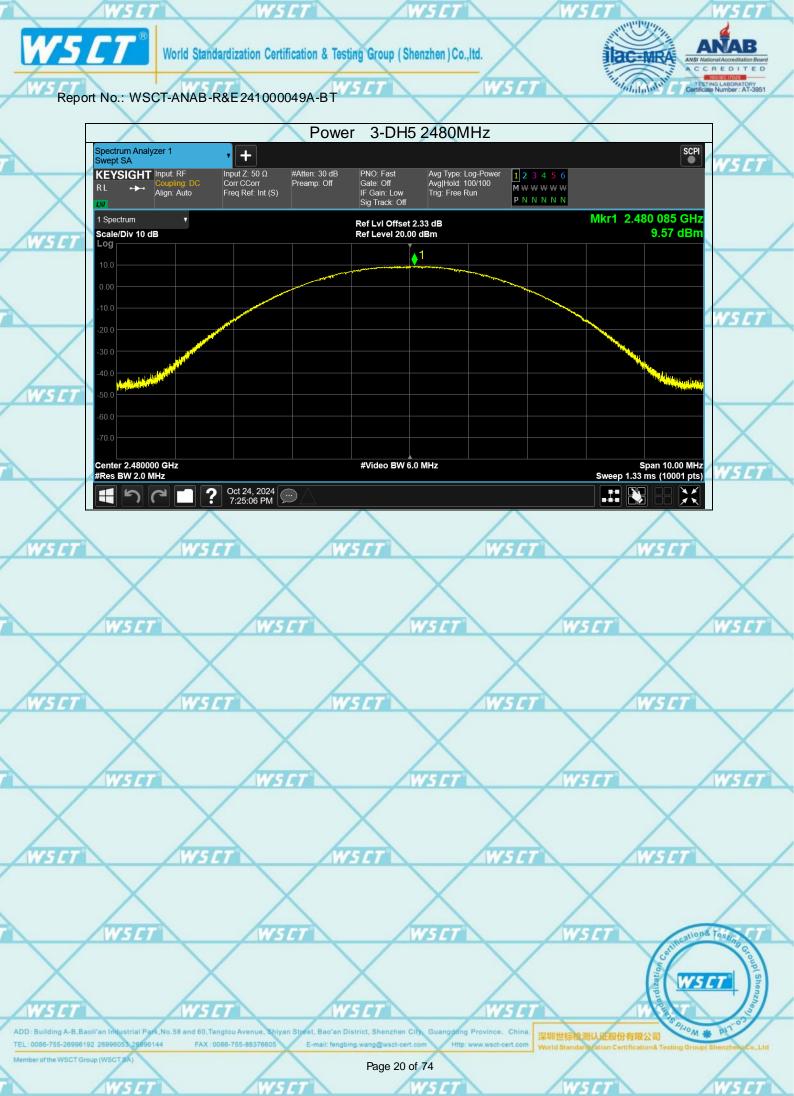
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Report No.: WSCT-ANAB-R&E241000049A-BT

6.4. 20dB Occupy Bandwidth

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)	
Test Method:	ANSI C63.10:2014	\bigtriangledown
Limit:	N/A	\wedge
Test Setup:	Spectrum Analyzer	WS ET
Test Mode:	Transmitting mode with modulation	
Test Procedure:	 The testing follows ANSIC63.10:2014 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	X

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6.4.2. Test data

WS		WELT	WEFT		V5 / T N	
/	Test channel	-20	dB Occupy Band	lwidth (MHz	:)	7
	lest channer	GFSK	π/4-DQPSK	8DPSK	Conclusion	
[]	Lowest	0.949	1.308	1.285	PASS	C 7
/	Middle	0.941	1.276	1.233	PASS	
/	Highest	0.930	1.271	1.238	PASS	
Anna						

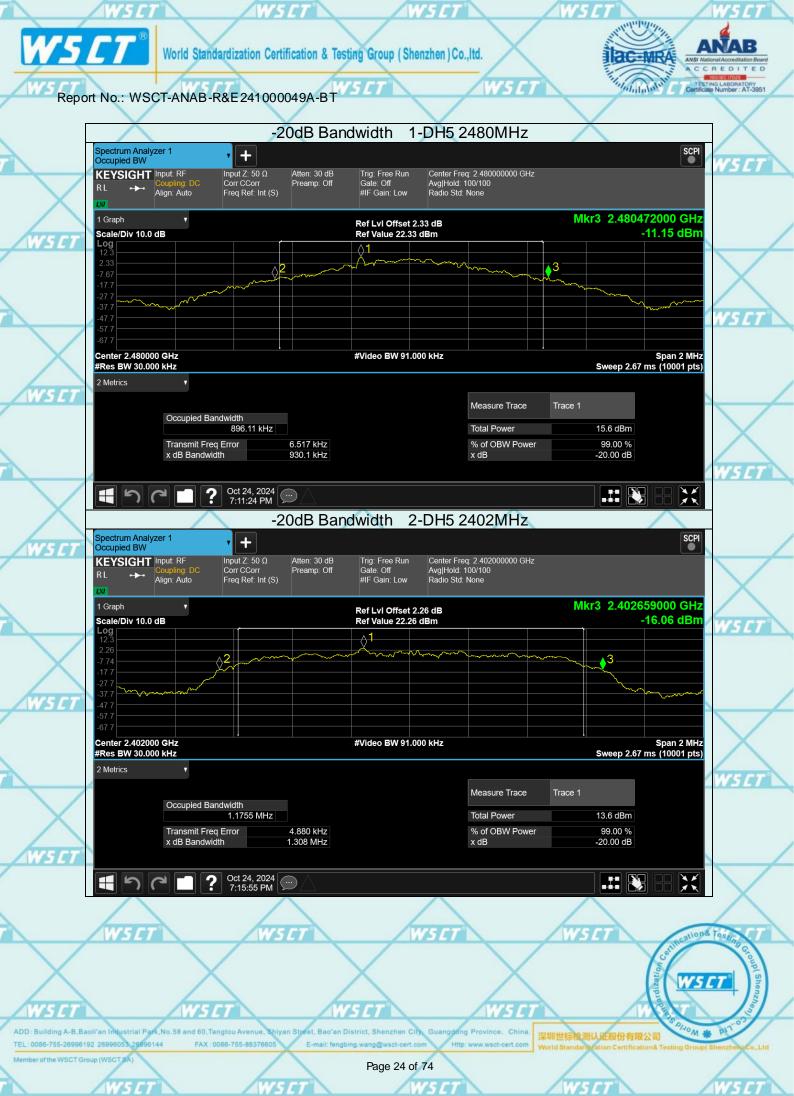
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Test plots as follows:

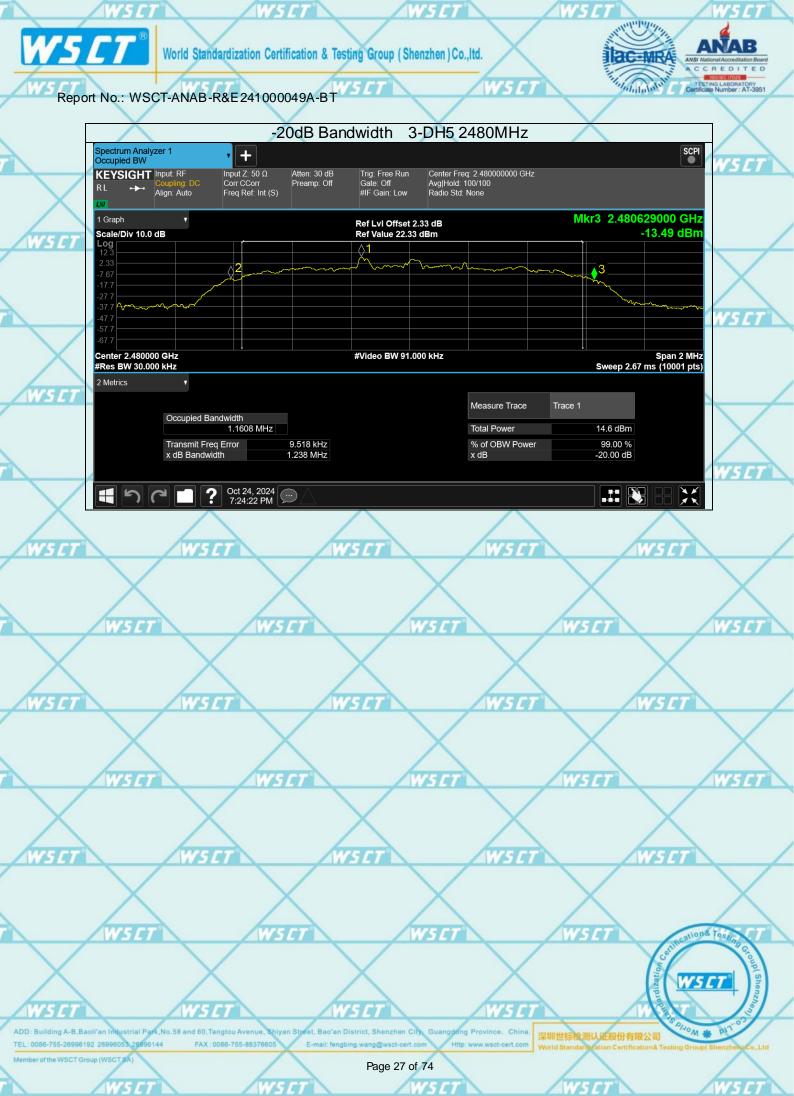


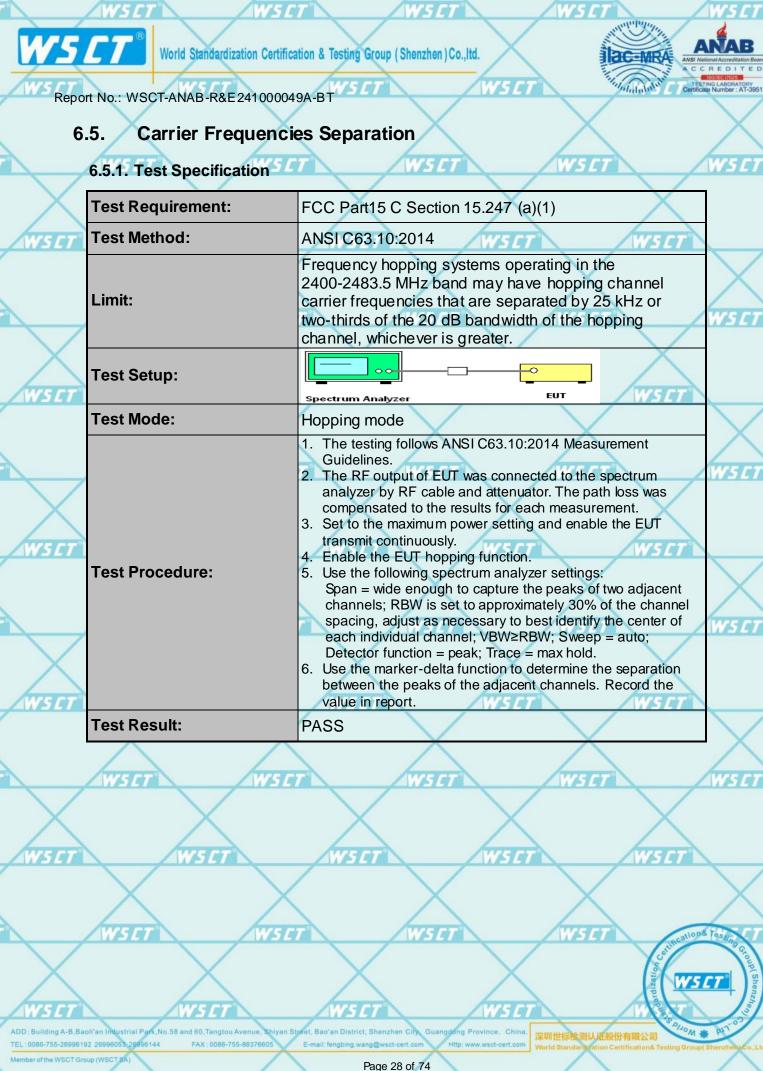












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6.5.2. Test data

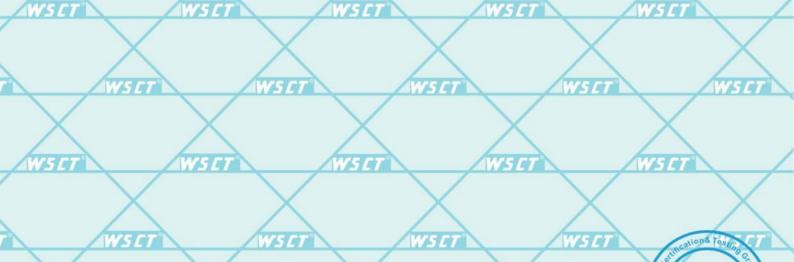
		WETT /W	/5/7		WSET
$\overline{}$		GFSK mo	ode		
\leq	Test channel	Carrier Frequencies Separation (MHz)	Limit (MHz)	Result	
5 <i>CT</i>	Lowest	0.994	0.633	PASS	
	Middle	1.002	0.627	PASS	X
	Highest	1.006	0.620	PASS	
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		Pi/4 DQPSK		
	Test channel	Carrier Frequencies Separation (MHz)	Limit (MHz)	Result
	Lowest	1.016	0.872	PASS
	Middle	0.994	0.851	PASS
-	Highest	W5CT 1.010 W	5 <i>CT</i> 0.847	SCT PASS

	8DPSK mode				
7	Test channel	Carrier Frequencies Separation (MHz)	Limit (MHz)	Result	
	Lowest	0.992	0.857	PASS	
	Middle	1.002	0.822	PASS	
/	Highest	1.000	0.825	PASS	

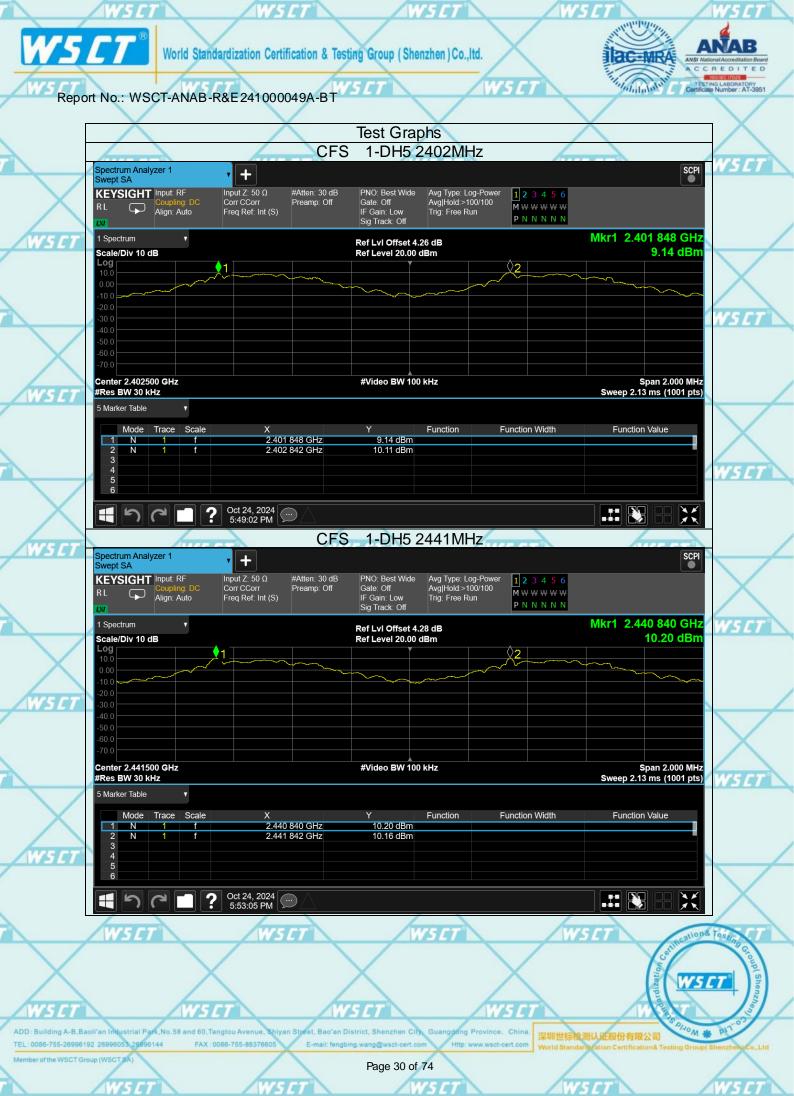


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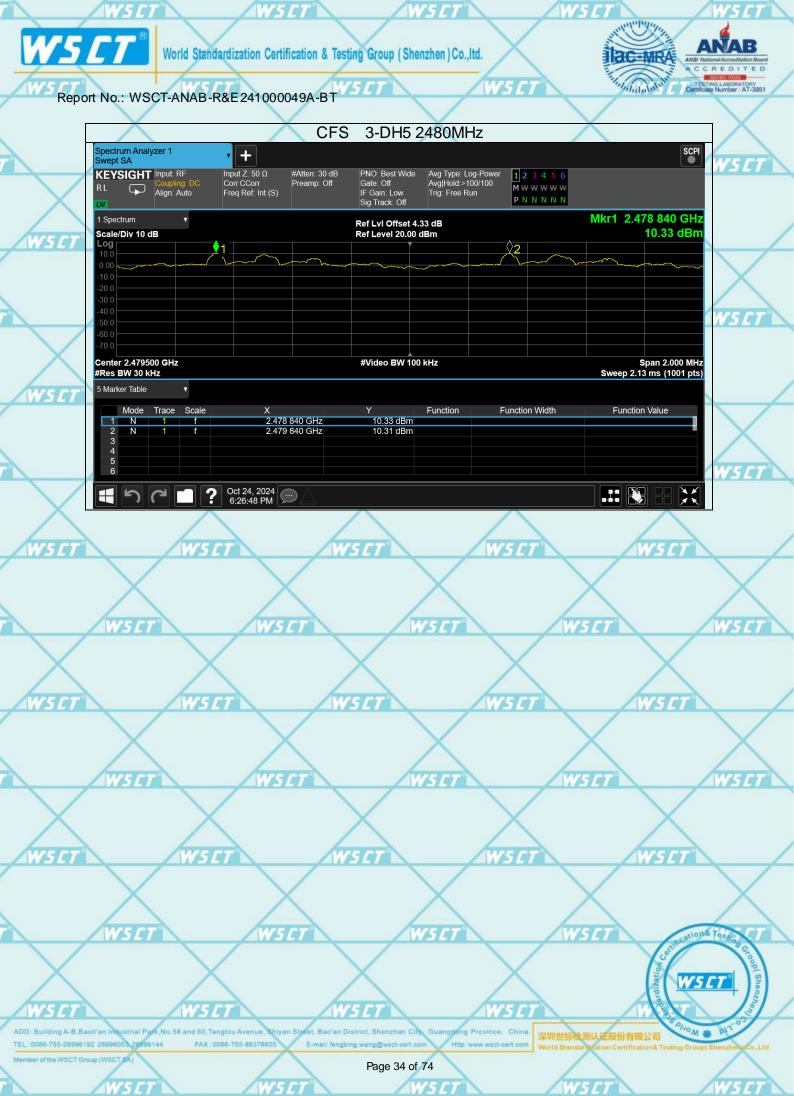
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6.6. Hopping Channel Number

6.6.1. Test Specification

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<u> </u>	<u> </u>			
	Test Requirement:	FCC Part15 C Section 15.247 (a)(1)		
	Test Method:	ANSI C63.10:2014	\checkmark	
	Limit:	Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.		
\leq	Test Setup:		<u> </u>	
<u>[7</u>]		Spectrum Analyzer EUT WSCT		
	Test Mode:	Hopping mode		
		 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 	WEIT	
	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 	WSET	
CT		 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 		
		the number of total channel. 7. Record the measurement data in report.	\searrow	
	Test Result:	PASS		
			WSLT	

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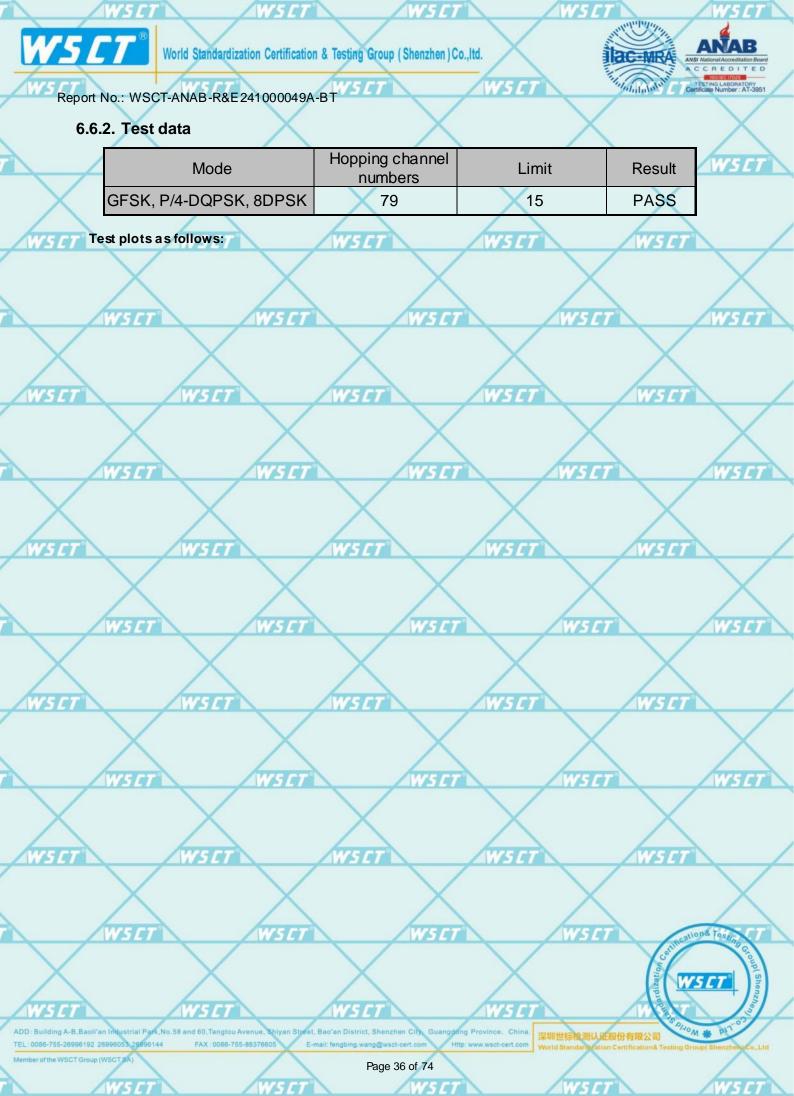
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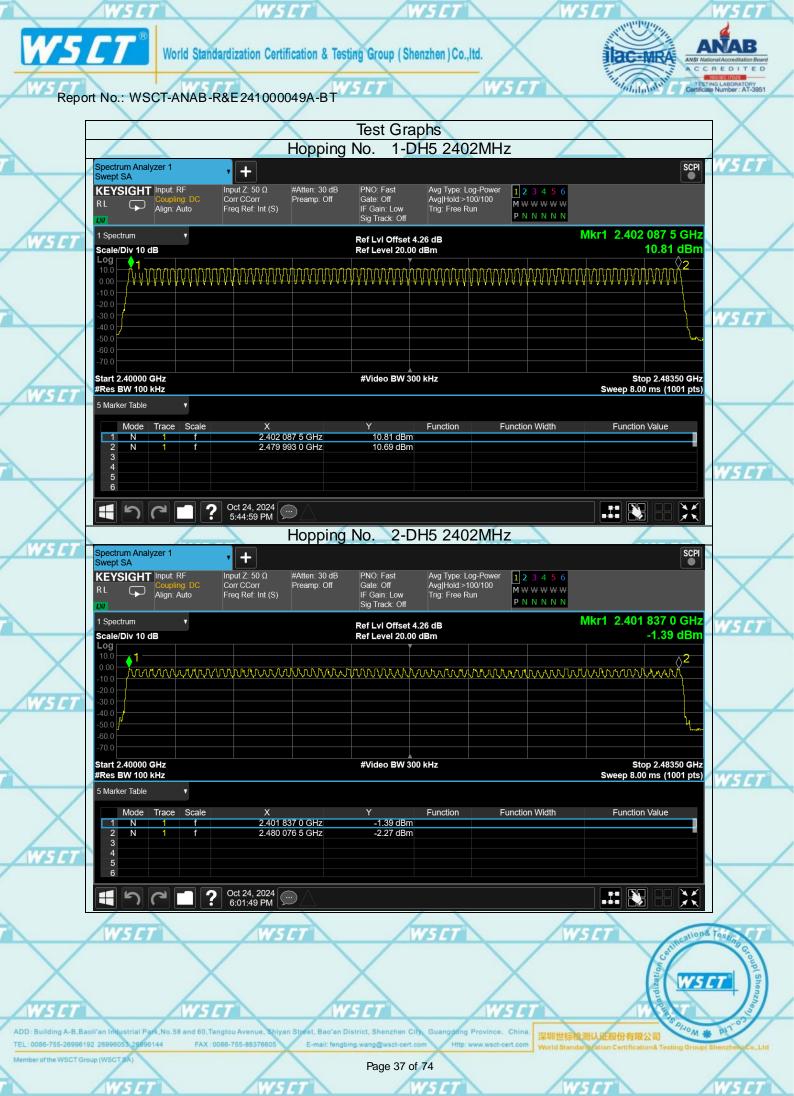
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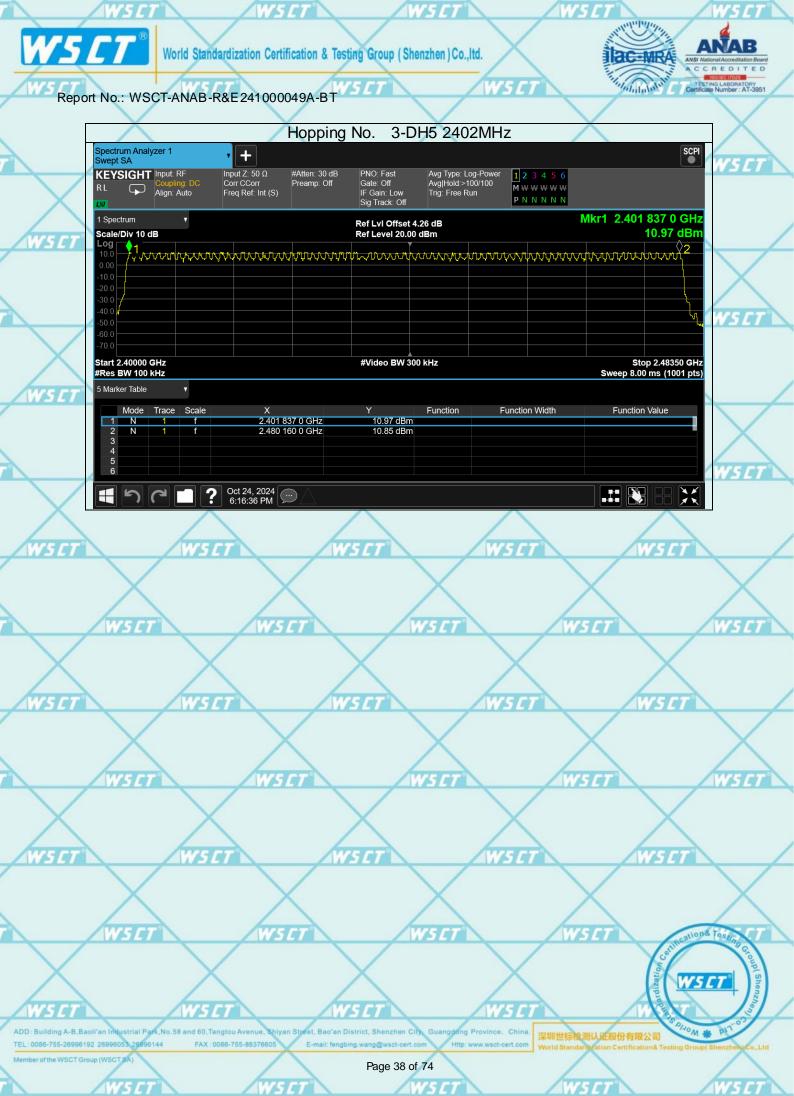
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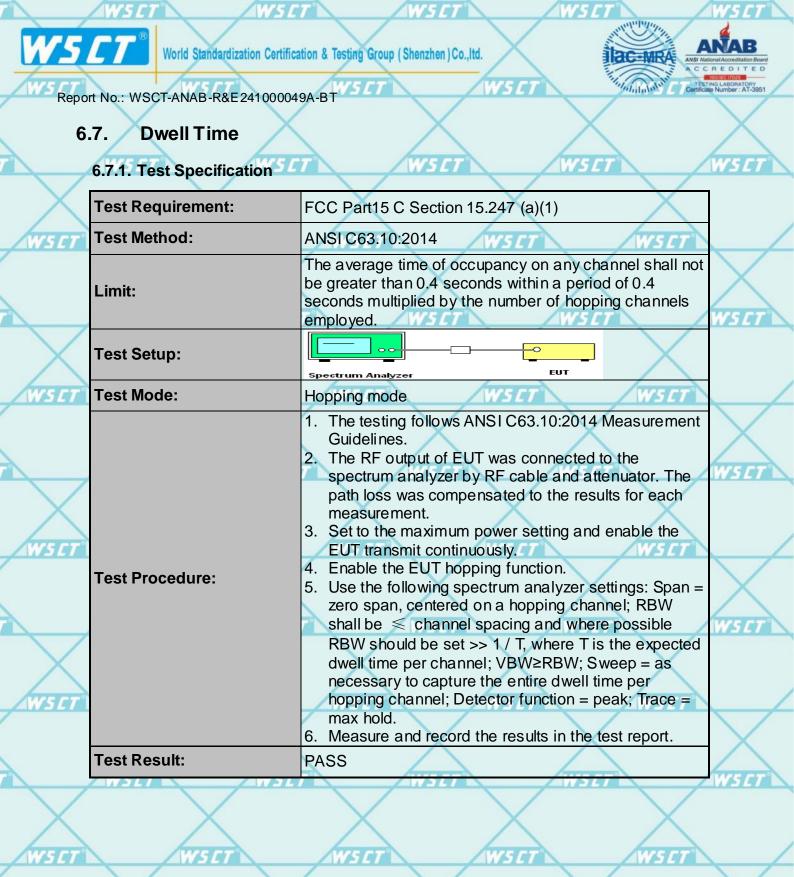
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6.7.2. Test Data

	Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
2	1-DH1	2402	0.373	119.36	320	31600	400	Pass
	1-DH1	2441	0.372	118.296	318	31600	400 🦯	Pass
	1-DH1	2480	0.371	118.349	319	2 31600	400	Pass
	1-DH3	2402	1.621	260.981	161	31600	400	Pass
	1-DH3	2441	1.621	257.739	159	31600	400	Pass
	1-DH3	2480	1.621	259.36	160	31600 🧹	400	Pass
	1-DH5	2402	2.868	304.008 🦯	106	31600	400	Pass
1	1-DH5	2441	2.868	304.008	106	31600	400	Pass
-	1-DH5	2480	2.869	304.114	106	31600	400	Pass

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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 x 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) x (0.4 x 79) = 106.67 hops

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

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Test plots as follows:

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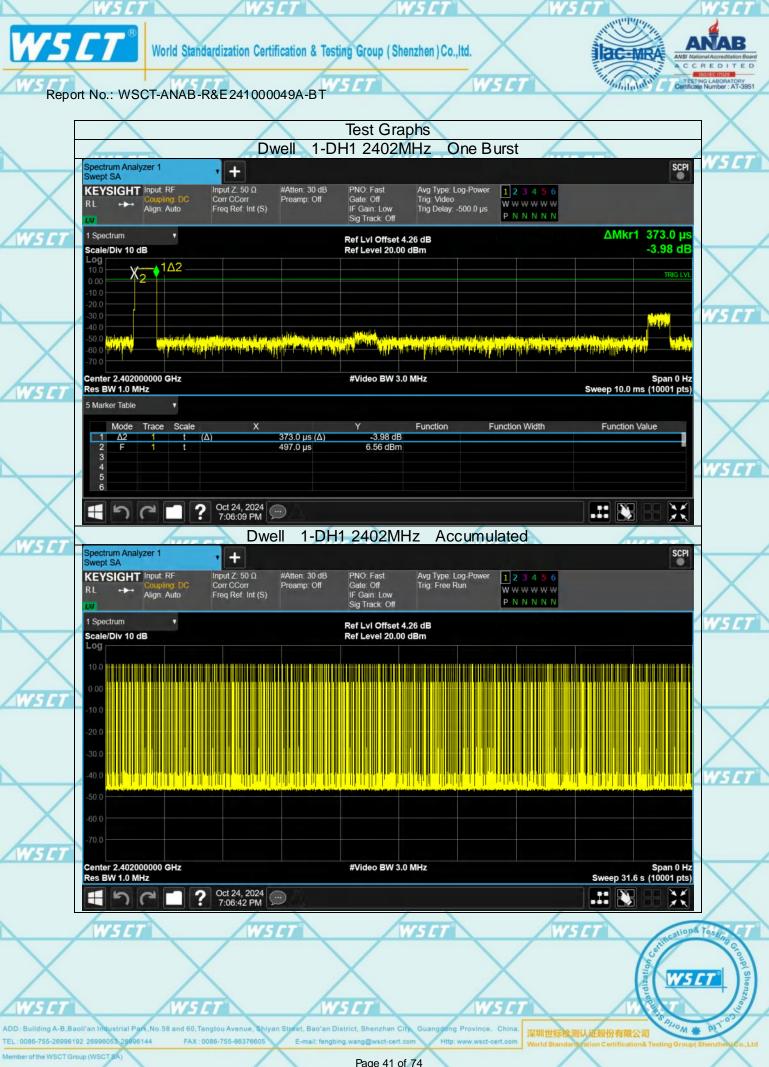
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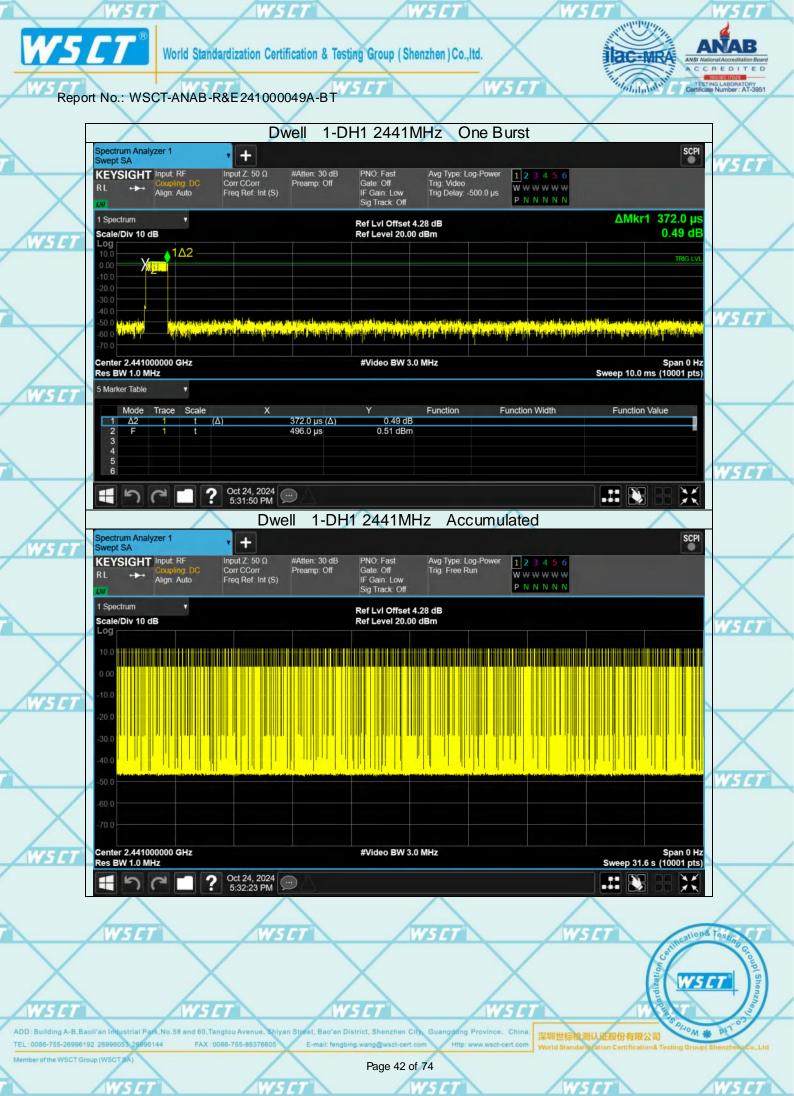
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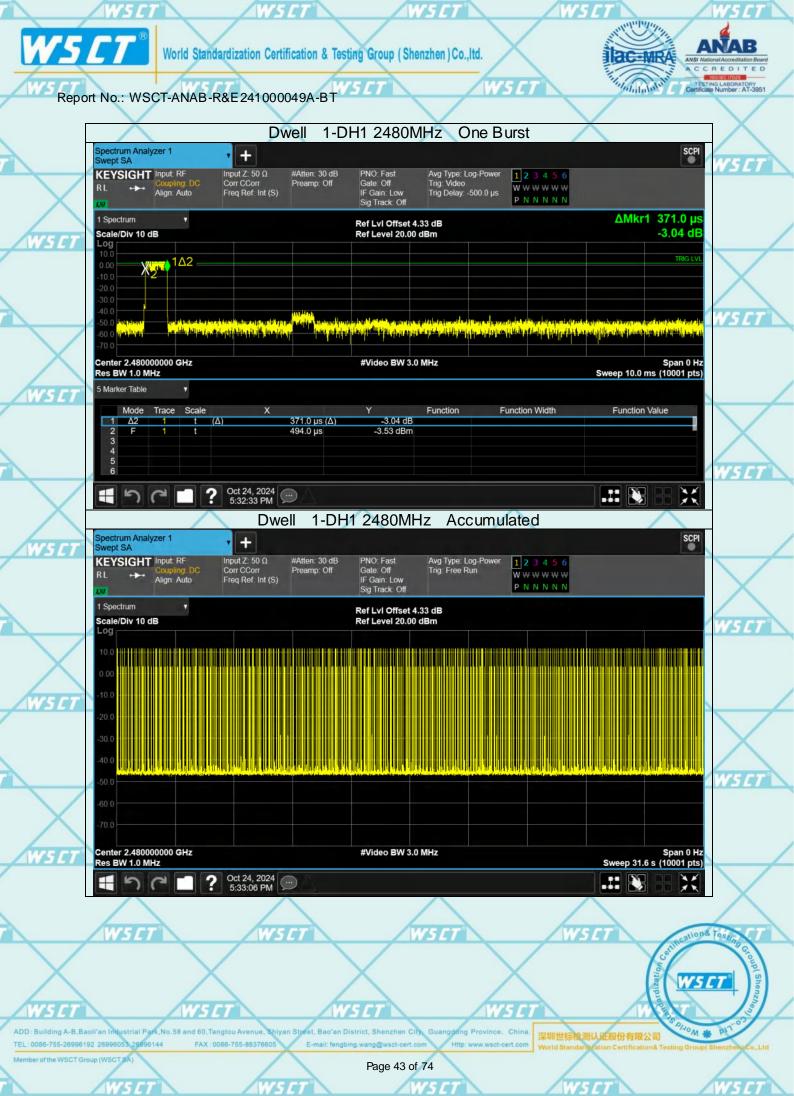
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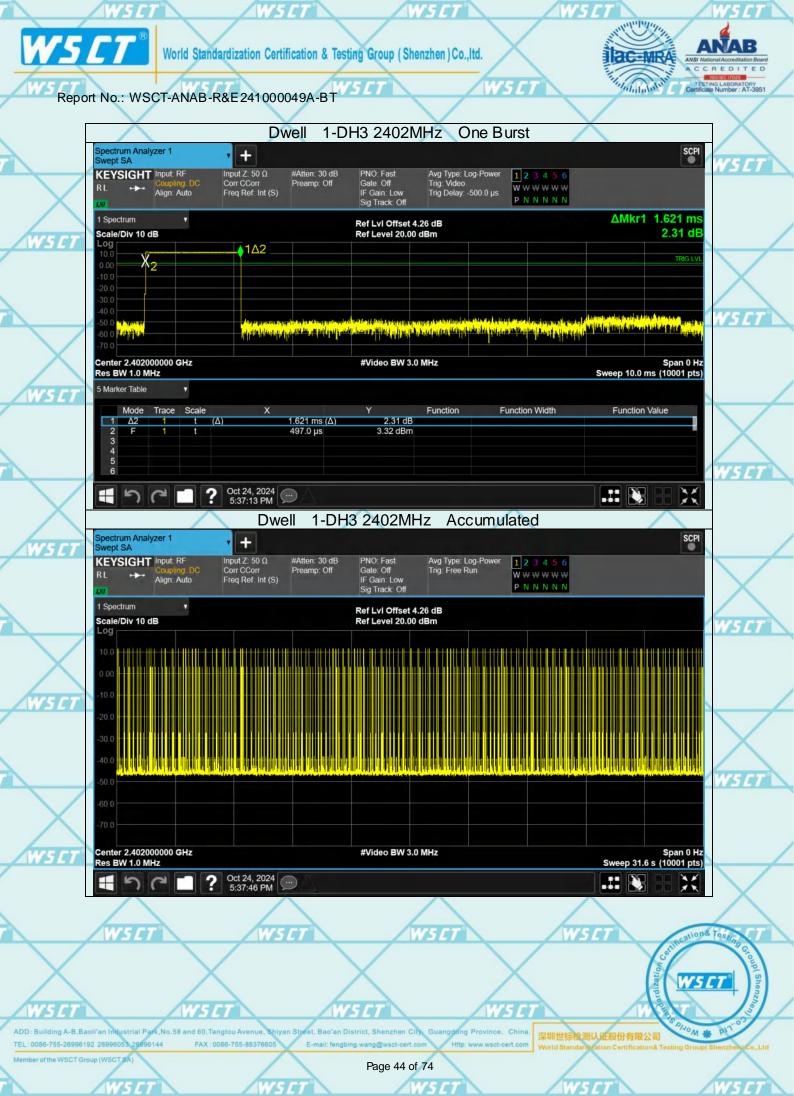


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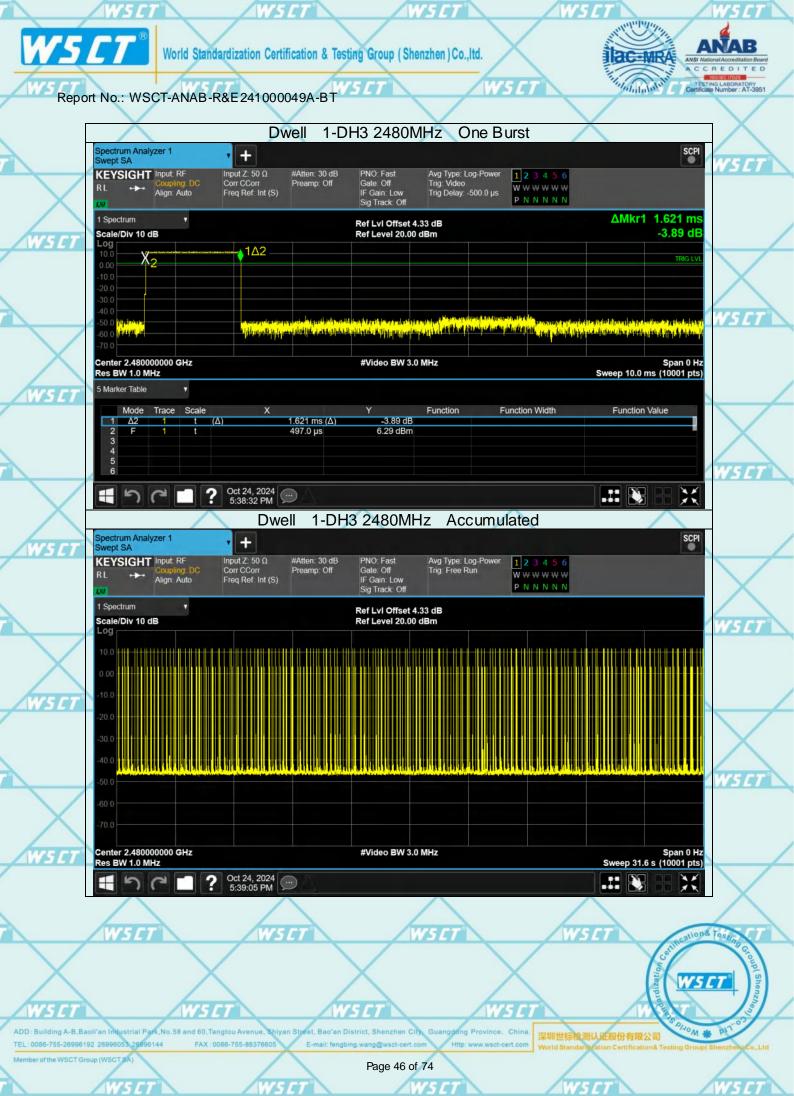


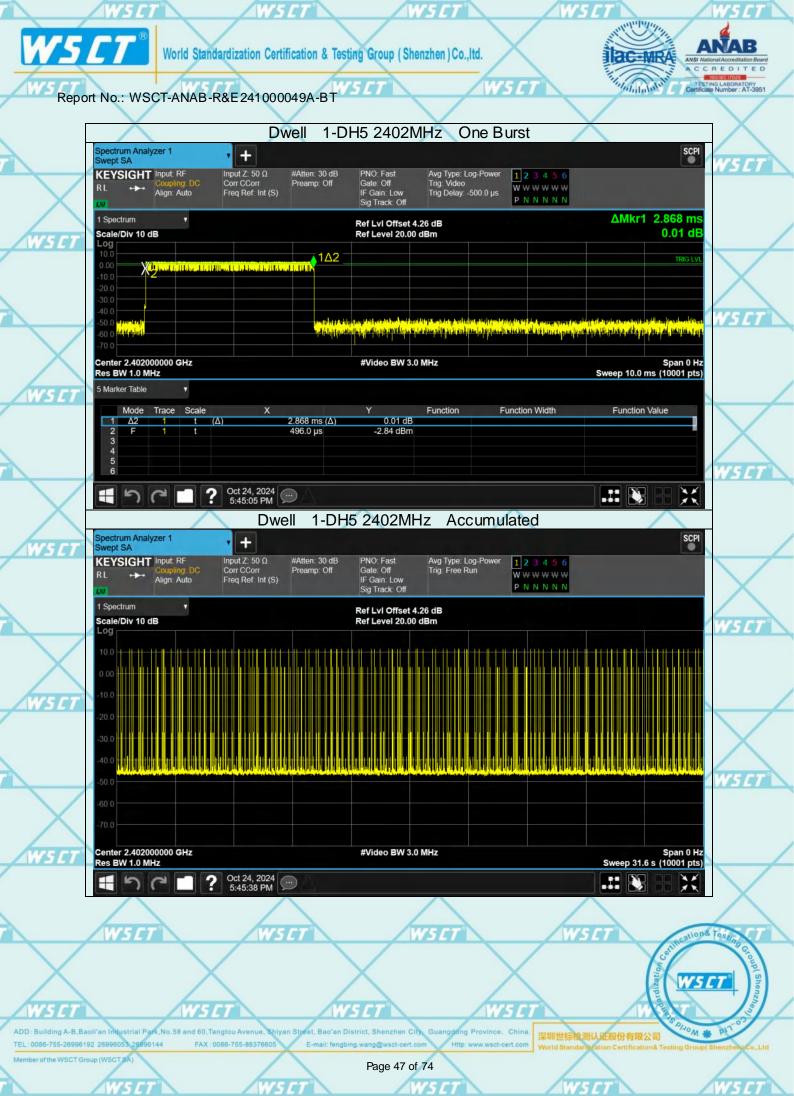
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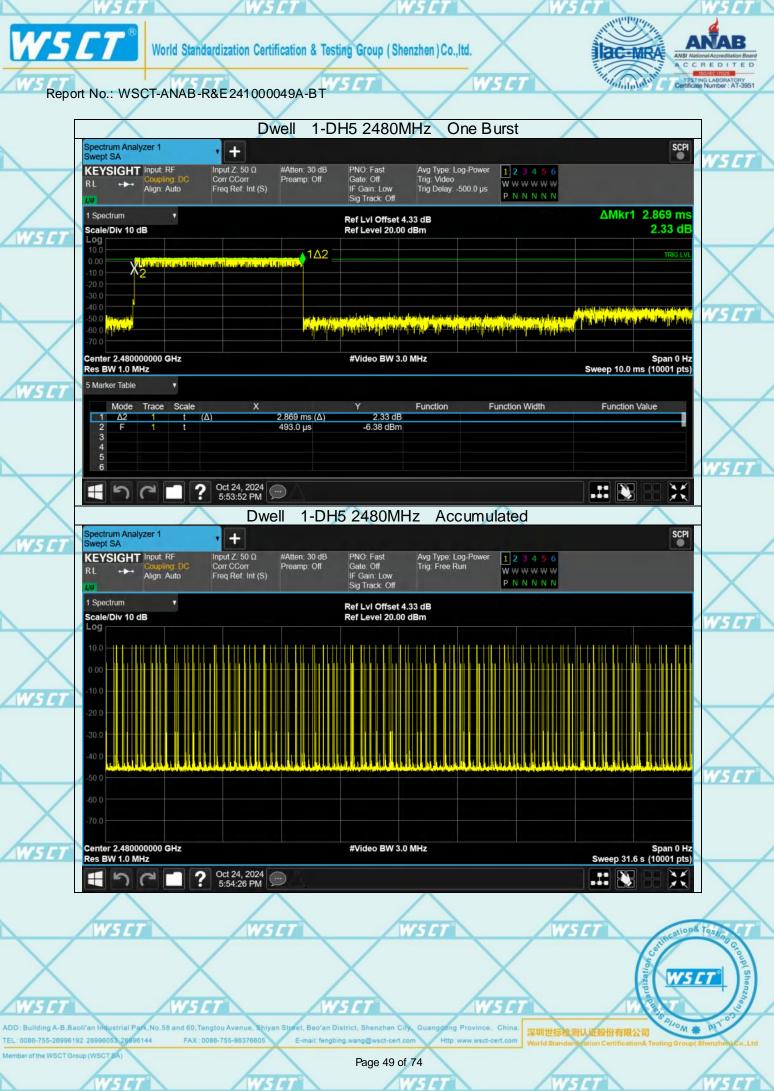


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6.8. Pseudorandom Frequency Hopping Sequence



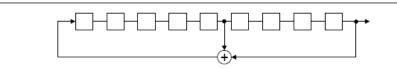
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

Alternatively. Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

EUT Pseudorandom Frequency Hopping Sequence

The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first one of 9 consecutive ones; i.e. the shift register is initialized with nine ones. • Number of shift register stages: 9

Length of pseudo-random sequence: 2⁹ -1 = 511 bits
 Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

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An example of Pseudorandom Frequency Hopping Sequence as follow:

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Each frequency used equally on the average by each transmitter. The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

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Conducted Band Edge Measurement 6.9.

6.9.1. Test Specification 5

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Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	ANSI C63.10:2014 W5CT W5CT				
Limit:	In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.				
Test Setup:	Spectrum Analyzer EUT	\bigtriangledown			
Test Mode:	Transmitting mode with modulation	\bigtriangleup			
Test Procedure:	 The testing follows the guidelines in Band-edge Compliance of RF Conducted Emissions of ANSI C63.10:2014 Measurement Guidelines. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz (≥1% span=10MHz), VBW = 300 kHz (≥RBW). Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used. Enable hopping function of the EUT and then repeat step 2 and 3. Measure and record the results in the test report. 	WSET WSET			
Test Result:	PASS	WSET			
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6.10. Conducted Spurious Emission Measurement

6.10.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2014
Limit:	In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	 The testing follows the guidelines in Spurious RF Conducted Emissions of 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. Set RBW = 100 kHz, VBW = 300kHz, scan up through 10th harmonic. All harmonics / spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW. Measure and record the results in the test report. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Test Result:	PASS

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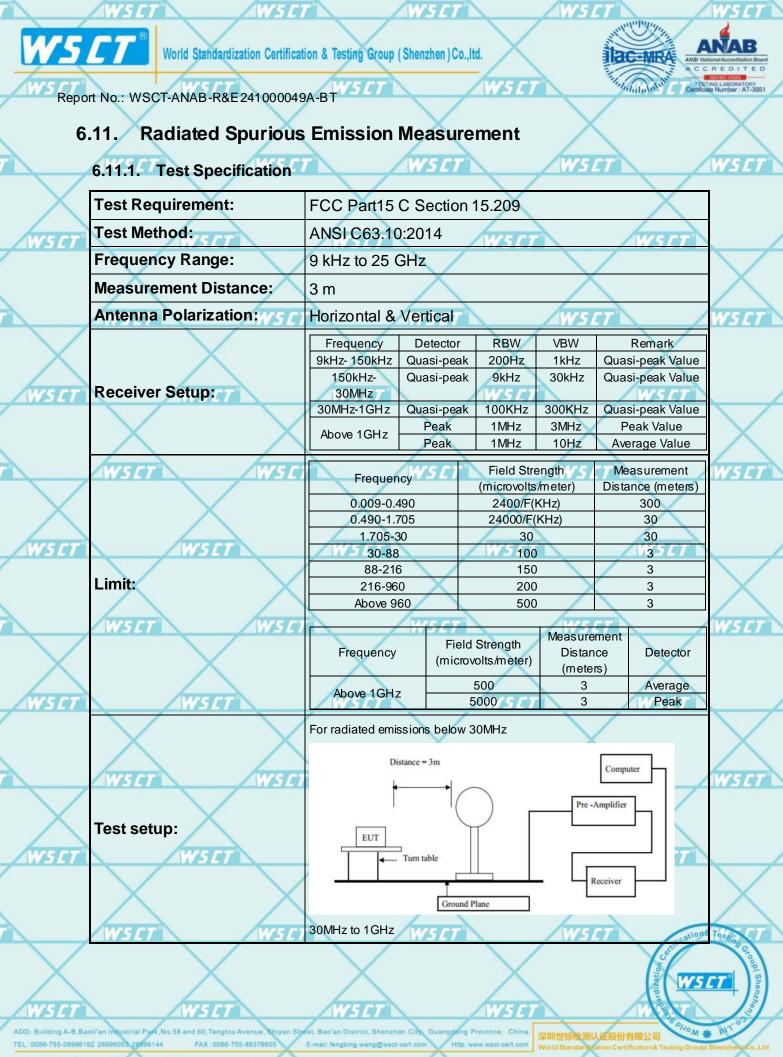
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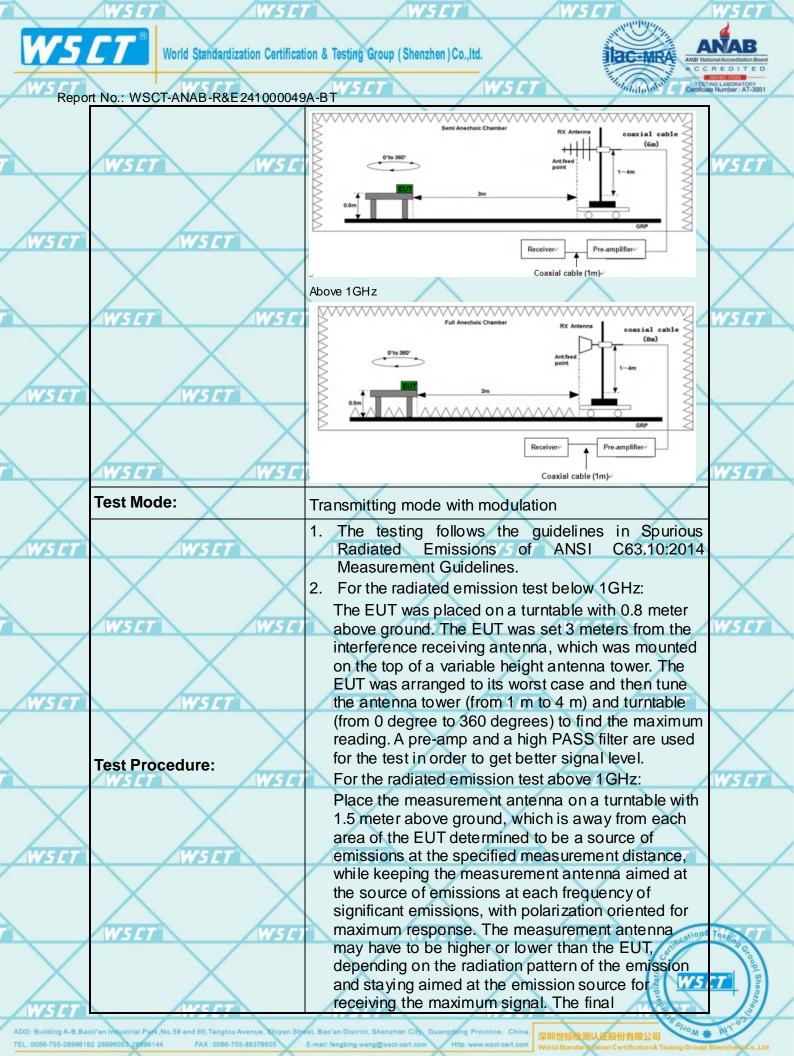
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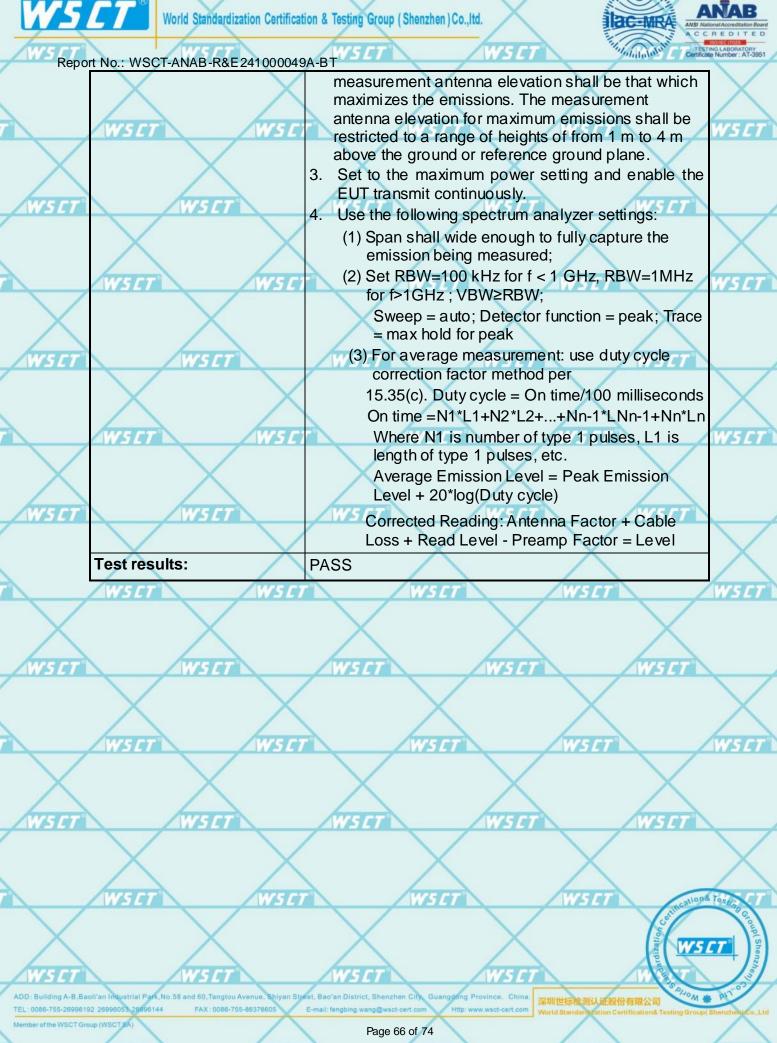
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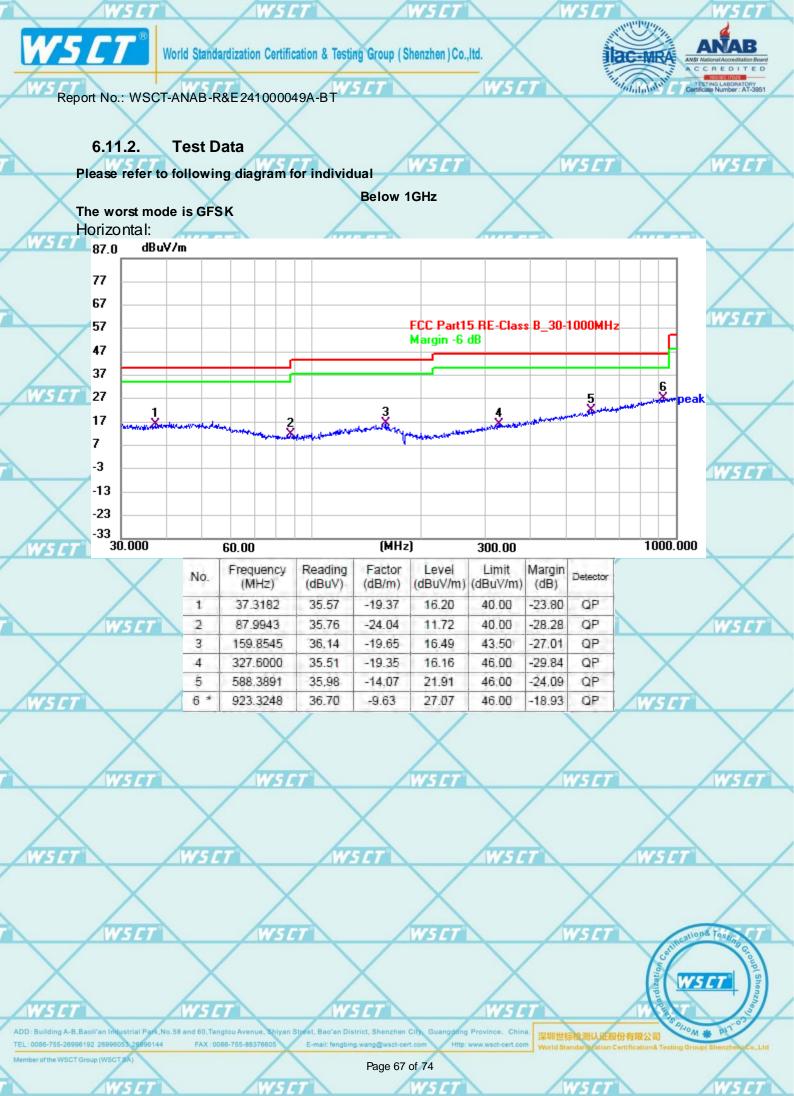


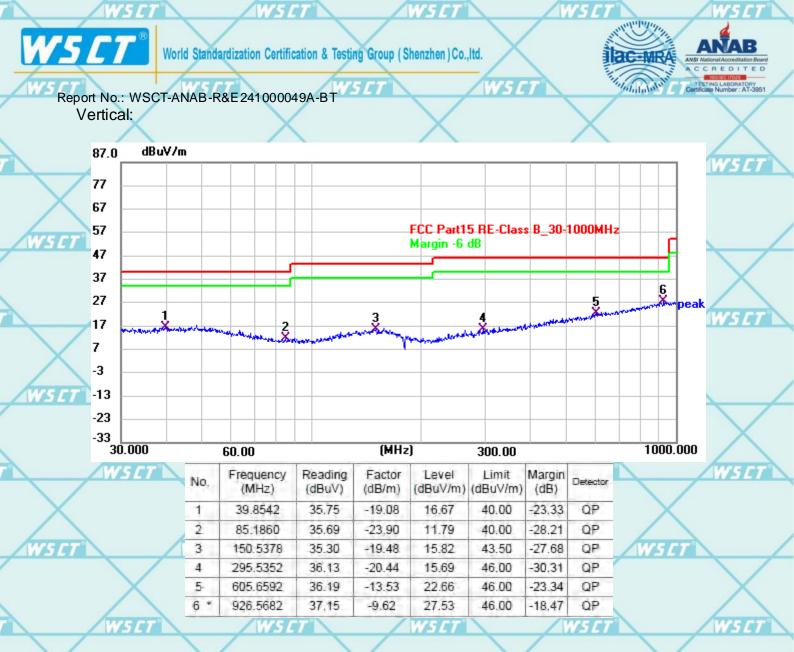
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Note1:

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Freq. = Emission frequency in MHz Reading level $(dB\mu V)$ = Receiver reading Corr. Factor (dB) = Antenna factor + Cable loss - Amplifier factor. Measurement $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)Limit $(dB\mu V)$ = Limit stated in standard Margin (dB) = Measurement $(dB\mu V)$ – Limits $(dB\mu V)$

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Report No.: WSCT-ANAB-R&E241000049A-BT

Above 1GHz

Note 1: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental Signal.

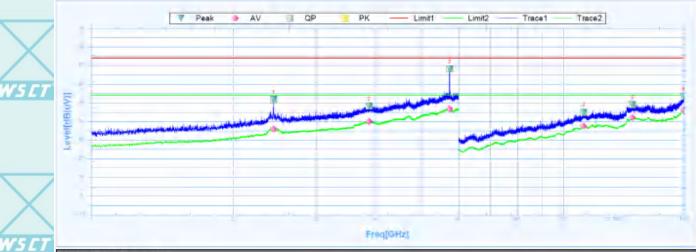
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Note 2: The spurious above 18G is noise only, do not show on the report. The worst mode is GFSK

Low channel: 2402MHz

Horizontal:



ned Data Lis	t								
Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
2434.3750	51.95	7.69	44.28	74	-22.05	38.2	Horizontal	PK	Pass
2434.3750	36.02	7,69	28.33	54	-17.98	38.2	Horizontal	AV	Pass
3876.8750	48.32	11.54	36.78	74	-25,68	343,6	Horizontal	PK	Pass
3876.8750	39.83	11.54	28.29	54	-14.17	343.6	Horizontal	AV	Pass
5745.0000	68.25	21.15	47.1	74	-5.75	265.3	Horizontal	PK	Pass
5745.0000	46.76	21.15	25.61	54	-7.24	265.3	Horizontal	AV	Pass
11038.5000	44.85	39.47	5.38	74	-29.15	308.8	Horizontal	PK	Pass
11038.5000	37.48	39.47	-2.01	54	-16.54	308.8	Horizontal	AV	Pass
14007.0000	49.08	41.49	7.59	74	-24.92	227.4	Horizontal	PK	Pass
14007.0000	42.05	41.49	0.56	54	-11.95	227.4	Horizontal	AV	Pass
17973.0000	53.52	46.32	7.2	74	-20.48	130.6	Horizontal	PK	Pass
17973.0000	46.13	46.32	-0.19	54	-7.87	130.6	Horizontal	AV	Pass
	Freq. [MHz] 2434.3750 2434.3750 3876.8750 3876.8750 5745.0000 5745.0000 11038.5000 11038.5000 14007.0000 14007.0000 17973.0000	[MHz] [dB(uV)] 2434.3750 51.95 2434.3750 36.02 3876.8750 48.32 3876.8750 39.83 5745.0000 68.25 5745.0000 48.76 11038.5000 44.85 11038.5000 37.46 14007.0000 49.08 14007.0000 53.52	Freq. [MHz]Reading [dB(uV)]Factor [dB]2434.375051.957.692434.375038.027.693876.875048.3211.543876.875039.8311.545745.000068.2521.155745.000048.7621.1511038.500044.8539.4711038.500037.4639.4714007.000042.0541.4917973.000053.5246.32	Freq. [MHz]Reading [dB(uV)]Factor [dB]Level [dB(uV)]2434.375051.957.6944.262434.375036.027.6928.333876.875048.3211.5436.783876.875048.3211.5428.295745.000068.2521.1547.15745.000048.7621.1525.6111038.500044.8539.475.3811038.500037.4639.47-2.0114007.000049.0841.497.5914007.000053.5246.327.2	Freq. [MHz]Reading [dB(uV)]Factor [dB]Level [dB(uV)]Limit [dB]2434.375051.957.6944.26742434.375036.027.6928.33543876.875048.3211.5436.78743876.875039.8311.5428.29545745.000068.2521.1547.1745745.000048.7621.1525.615411038.500044.8539.475.387414007.000049.0841.497.597414007.000042.0541.490.565417973.000053.5246.327.274	Freq. [MHz]Reading [dB(uV)]Factor [dB]Level [dB(uV)]Limit [dB]Margin [dB]2434.375051.957.6944.2674-22.052434.375036.027.6928.3354-17.983876.875048.3211.5436.7874-25.683876.875039.8311.5428.2954-14.175745.000068.2521.1547.174-5.755745.000048.7621.1525.6154-7.2411038.500044.8539.475.3874-29.1511038.500037.4639.47-2.0154-18.5414007.000042.0541.497.5974-24.9214007.000053.5246.327.274-20.48	Freq. [MHz]Reading [dB(uV)]Factor [dB]Level 	Freq. [MHz]Reading [dB(uV)]Factor [dB]Level [dB(uV)]Limit [dB]Margin [dB]Deg [P]Polarity2434.375051.957.6944.2674-22.0538.2Horizontal2434.375036.027.6928.3354-17.9838.2Horizontal3876.875048.3211.5436.7874-25.68343.6Horizontal3876.875039.8311.5428.2954-14.17343.6Horizontal5745.000068.2521.1547.174-5.75265.3Horizontal5745.000048.7621.1525.6154-7.24285.3Horizontal11038.500037.4639.475.3874-29.15308.8Horizontal14007.000049.0841.497.5974-24.92227.4Horizontal14007.000053.5246.327.274-20.48130.6Horizontal	Freq. [MHz]Reading [dB(uV)]Factor [dB]Level [dB(uV)]Limit [dB]Margin [dB]Deg [P]PolarityTrace2434.375051.957.6944.2674-22.0538.2HorizontalPK2434.375036.027.6928.3354-17.9838.2HorizontalAV3876.875048.3211.5436.7874-25.68343.6HorizontalPK3876.875039.8311.5428.2954-14.17343.6HorizontalPK3876.875039.8311.5428.2954-14.17343.6HorizontalAV5745.000068.2521.1547.174-5.75265.3HorizontalAV5745.000048.7621.1525.6154-7.24265.3HorizontalAV11038.500037.4639.475.3874-29.15308.8HorizontalAV14007.000049.0841.497.5974-24.92227.4HorizontalAV14007.000042.0541.490.5654-11.95227.4HorizontalAV17973.000053.5246.327.274-20.48130.6HorizontalPK

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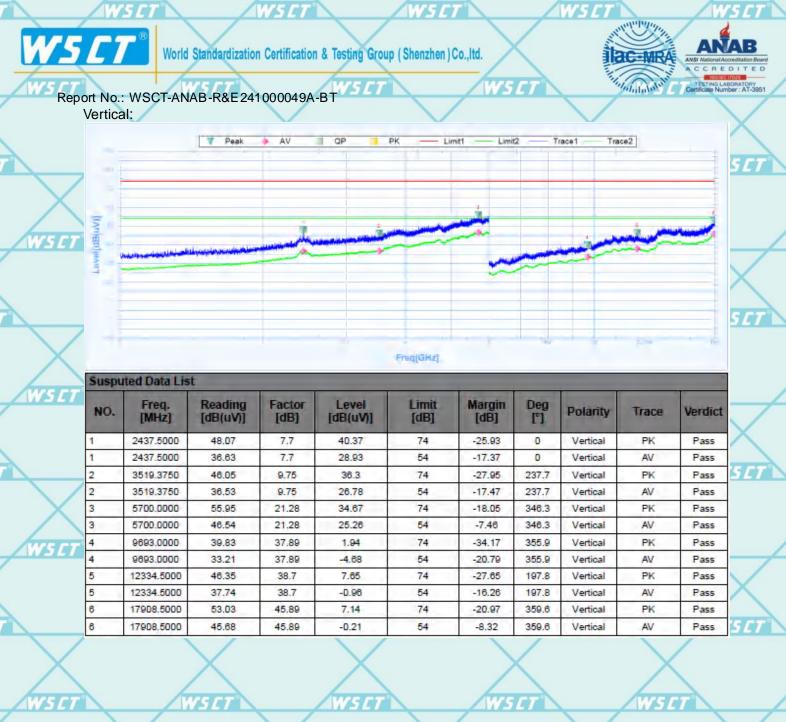
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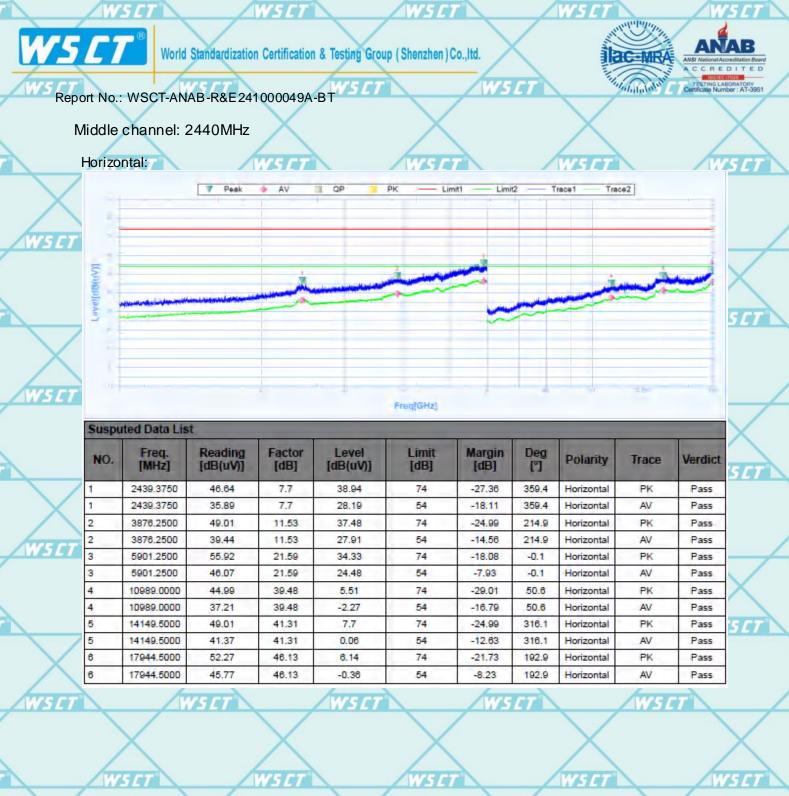
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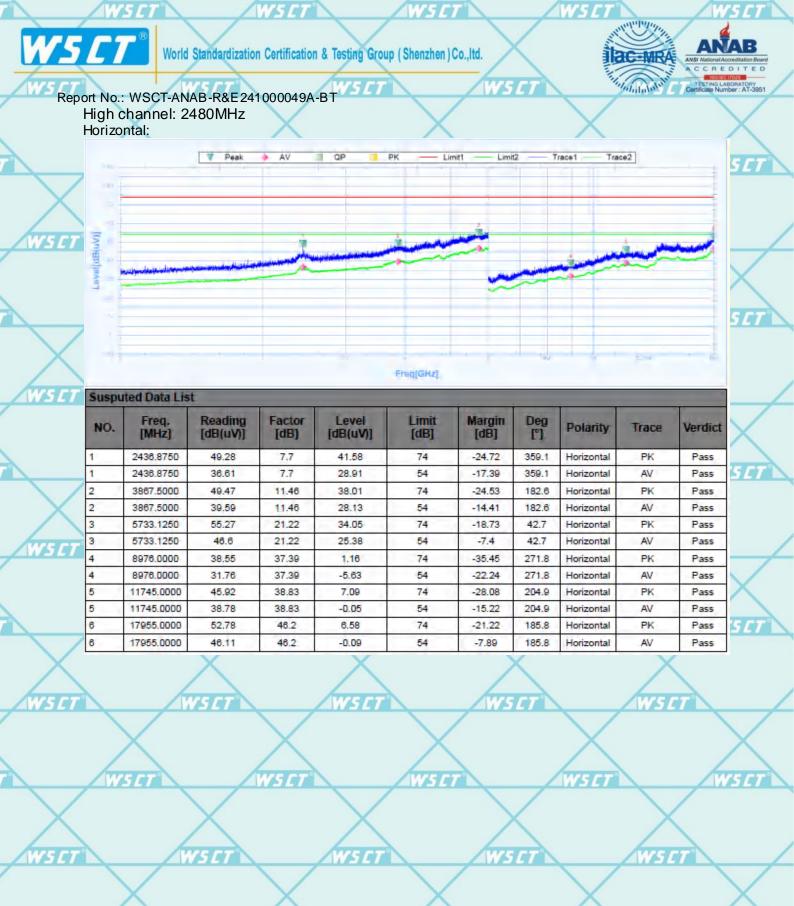
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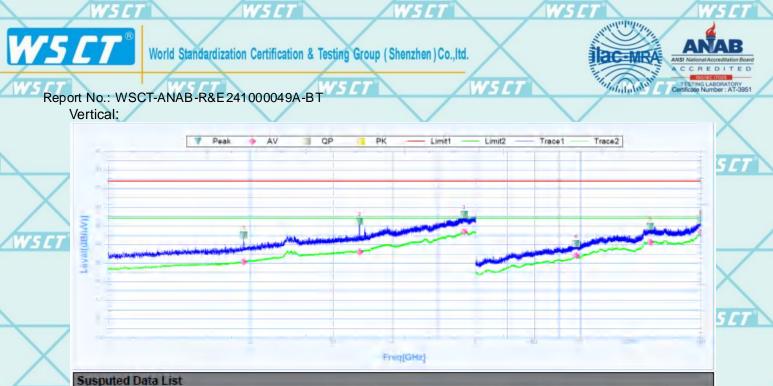
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Reading Factor Limit Deg Freq. Level Margin NO. Polarity Verdict Trace [MHz] [dB] [dB(uV)] [dB] [dB(uV)][dB] ["] 1938,7500 45.1 1.98 43 12 74 -28.9 358.9 PK Vertical Pass 1 1938.7500 30.74 1.98 28.76 54 -23.26 358.9 AV 1 Vertical Pass 2 3408.1250 52.26 9.4 42.86 74 -21.74 277 Vertical PK Pass 2 3408.1250 35.94 26.54 54 -18.06 9.4 277 AV Vertical Pass 3 5675.0000 55.99 21.16 34.83 74 -18.01 359 Vertical PK Pass 3 5675.0000 46.87 21.16 25.71 54 -7.13 AV 359 Vertical Pass 4 9795.0000 40.32 37.96 2.36 74 -33.68 1.6 Vertical PK Pass 4 9795.0000 33.87 37.96 -4.09 54 -20.13 1.6 Vertical AV Pass 5 14065.5000 49.75 41.41 8.34 74 -24.25 360 Vertical PK Pass 5 14065.5000 41.19 41.41 -0.22 54 -12.81 360 Vertical AV Pass 6 17983,5000 52,81 46,39 6.42 74 -21.19 48.3 PK Vertical Pass 6 0.01 17983.5000 46.4 46.39 54 -7.6 48.3 Vertical AV Pass

Note:

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1. The emission levels of other frequencies are very lower than the limit and not show in test report.

Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.

Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.
 Measurements were conducted in all three modulation (GFSK, Pi/4 DQPSK, 8DPSK), and the worst case Mode

. Measurements were conducted in all three modulation (GFSK, Pi/4 DQPSK, 8DPSK), and the worst case Mode (GFSK) was submitted only.

*****END OF REPORT*****

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