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TEST REPORT

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FCC ID: 2AXYP-OHP-317 Product: Wireless Headphones Model No.: OHP-317 Trade Mark: oraimo Report No.: WSCT-ANAB-R&E240800042A-BT Issued Date: 11 September 2024

Issued for:

ORAIMO TECHNOLOGY LIMITED FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN 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

FAX: +86-755-86376605

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Re	port No.: WSCT-ANAB	-R&E240800042A-BT 5 C7	1 mente	- And Aver	Certificate Number, Ar-5551				
	1. Test Certification								
	Product:	Wireless Headphones	WSET	WSET	WSET				
X	Model No.:	OHP-317	\sim	X					
WISCI	Trade Mark:	oraimo	WSET	WSC					
	Applicant:	ORAIMO TECHNOLOG FLAT N 16/F BLOCK B 19-25 SHAN MEI STRE	UNIVERSAL INDUST		X				
X	Manufacturer:	ORAIMO TECHNOLOG FLAT N 16/F BLOCK B 19-25 SHAN MEI STRE	UNIVERSAL INDUST		WSET				
WSE	Date of Test:	28 August 2024 to 11 S	eptember 2024	WSE	T				
	Applicable Standards:	FCC CFR Title 47 Part	15 Subpart C Section	15.247	-X				
WIST	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/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.								
- ice		//							

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Approved By	y:(Li Huaibi)	WSET Date: /	1 September 2	WSCT WSCT WSCT WSCT
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2. Test Result Summary

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\checkmark	Requirement	CFR 47 Section	Result	u e l
\mathbf{X}	Antenna Requirement	§15.203/§15.247 (c)	PASS	
WSET	AC Power Line Conducted Emission	§15.207 WSCT	NA	
	Conducted Peak Output Power	§15.247 (b)(1) §2.1046	PASS	wsi
WSET	20dB Occupied Bandwidth	§15.247 (a)(1) §2.1049	PASS	
	Carrier Frequencies Separation	§15.247 (a)(1)	PASS	\mathbf{i}
	Hopping Channel Number	§15.247 (a)(1)	PASS	ws
\bigtriangledown	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	
\bigtriangledown	Note:			
X	1. PASS: Test item meets the require			
WSET	 Fail: Test item does not meet the N/A: Test case does not apply to 	WSTT WSTT	WSET	
	 A. The test result judgment is decide 		X	>

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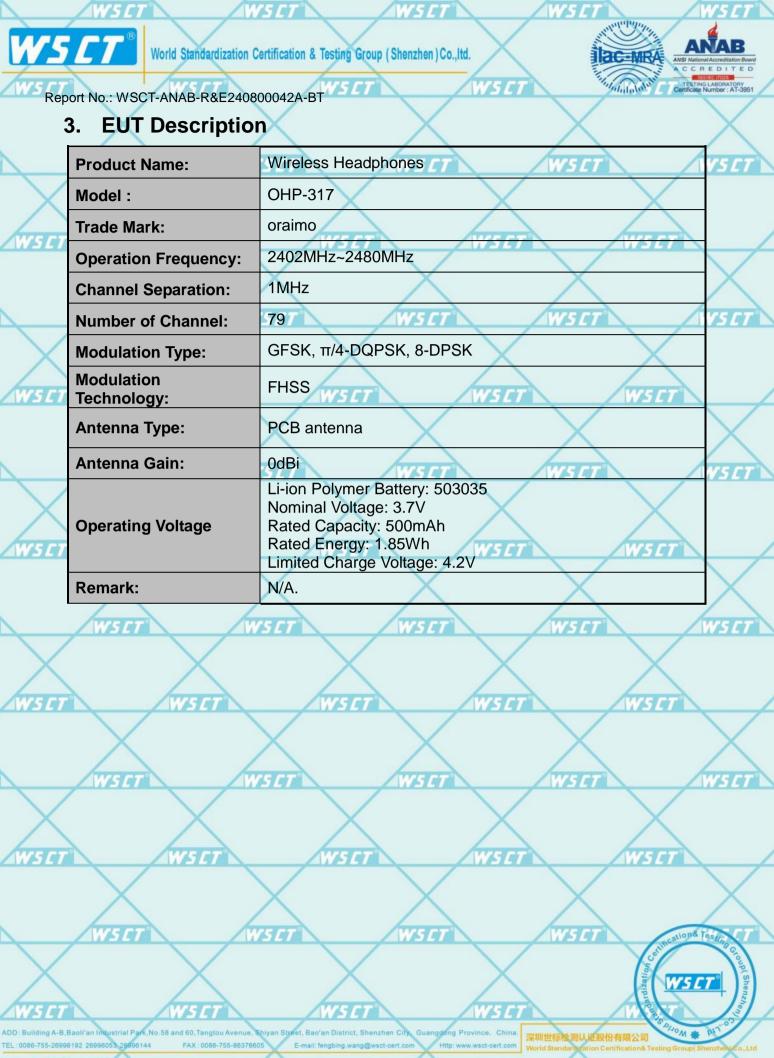
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Operation Frequency each of channel for GFSK, $\pi/4$ -DQPSK, 8DPSK

	Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
	W05 []	2402MHz	1120	2422MHz	40	2442MHz	605 [7 2462MHz
1	1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
						\sim		\wedge
	10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
	11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
	X				X		X	
	18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
	_ W19 <i>LT</i>	2421MHz	4 139 <i>C</i> 7	2441MHz	59	2461MHz	WS E	7

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

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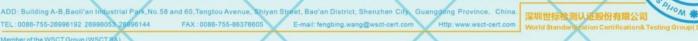




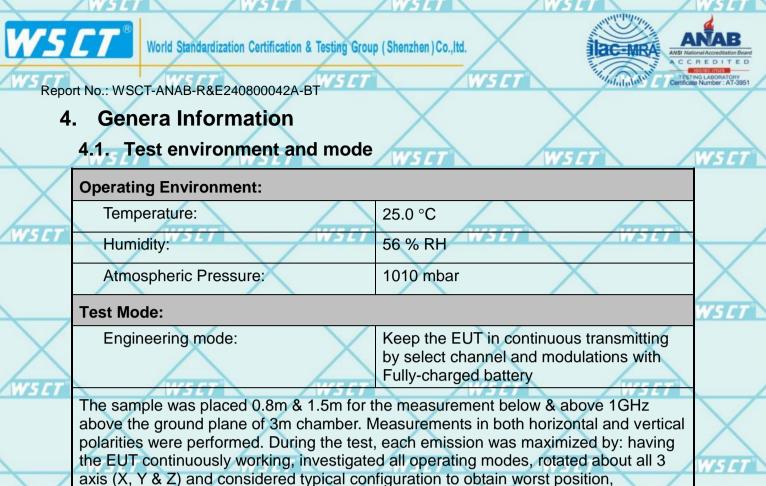


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manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

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.

<u>[</u> 7	Equipment	Model No.	Serial No.	FCC ID	Trade Name
	Adapter	XCU32	/ 🗙	/	× 1

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

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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 5 C on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

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WSET	No.	Item	MU			
	1	Conducted Emission Test	±3.2dB	$\mathbf{\mathbf{X}}$		
	2	RF power, conducted	±0.16dB			
$\overline{}$	3	Spurious emissions, conducted	±0.21dB	WSLIE		
X	4	All emissions, radiated(<1GHz)	±4.7dB			
WSET	5	All emissions, radiated(>1GHz)7 w5c7	±4.7dB/5_7			
	6	Temperature	±0.5°C	\sim		
	7	Humidity	±2.0%	WEIT		

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5.4. MEASUREMENT INSTRUMENTS

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_	NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.	SET
K	Test software	<	EZ-EMC	CON-03A	-	X-	
C 1	Test software		MTS8310	WSET	- /	ISFT	
	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	
C'I	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	\wedge
	Pre Amplifier	H.P.CT	HP8447E 57	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	
Ľ	9*6*6 Anechoic	CT	ISET	WSET	11/05/2023	11/04/2024	
	Horn Antenna	COMPLIANCE ENGINEERING	CE18000	-	11/05/2023	11/04/2024	Х
	Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	11/05/2023	11/04/2024	SET
7	Cable	TIME MICROWAVE	LMR-400	N-TYPE04	11/05/2023	11/04/2024	
\langle	System-Controller	CCS	N/A	N/A	N.C.R	N.C.R	
C 1	Turn Table	ccs	VSC7N/A	N/A	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	\wedge
_	Loop Antenna	EMCO	6502 <i>W51</i>	00042960	11/05/2023	11/04/2024	'5 [7"
<	Horn Antenna	SCHWARZBECK	BBHA 9170	1123	11/05/2023	11/04/2024	
1	Power meter	Anritsu	ML2487A	6K00003613	11/05/2023	11/04/2024	
Ľ	Power sensor	Anritsu	MX248XD	WSLT	11/05/2023	11/04/2024	- /
	Spectrum Analyzer	Keysight	N9010B	MY60241089	11/05/2023	11/04/2024	X

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6. Test Results and Measurement Data

6.1.15 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 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 PCB antenna. it meets the standards, and the best case gain of the antenna is 0dBi.

Please refer to the attachment "OHP-317 Internal Photo" for the antenna location

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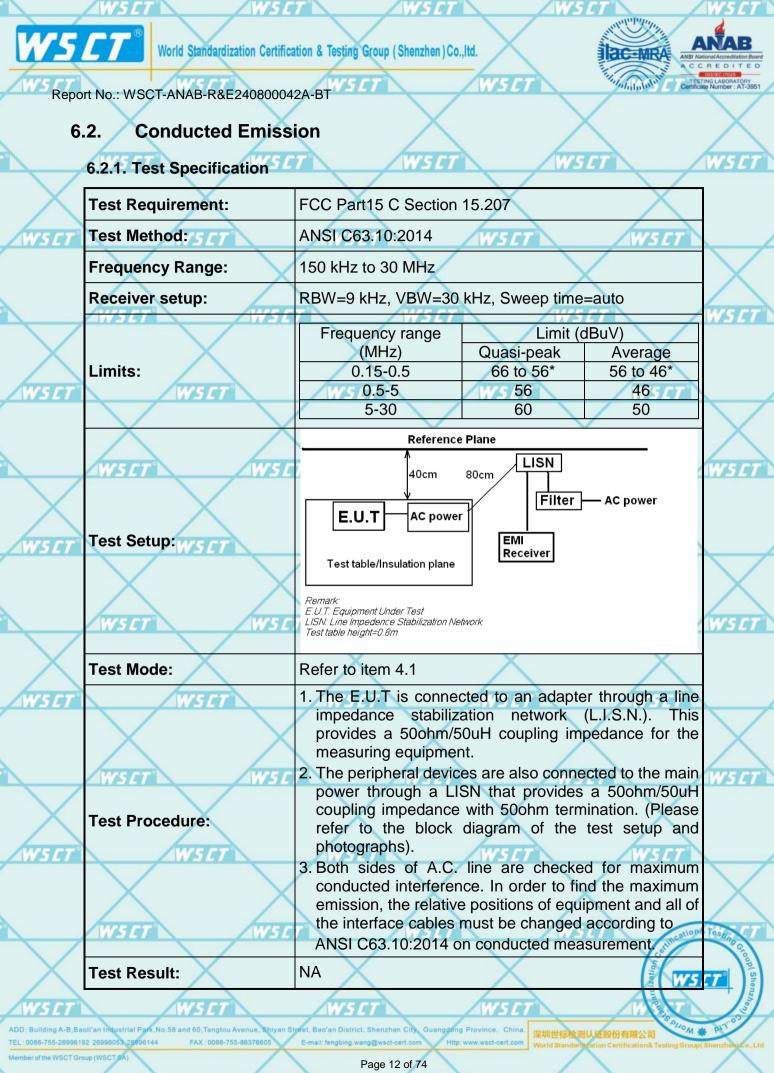
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6.2.2. EUT OPERATING CONDITIONS

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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

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 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.
Test Result:	PASS

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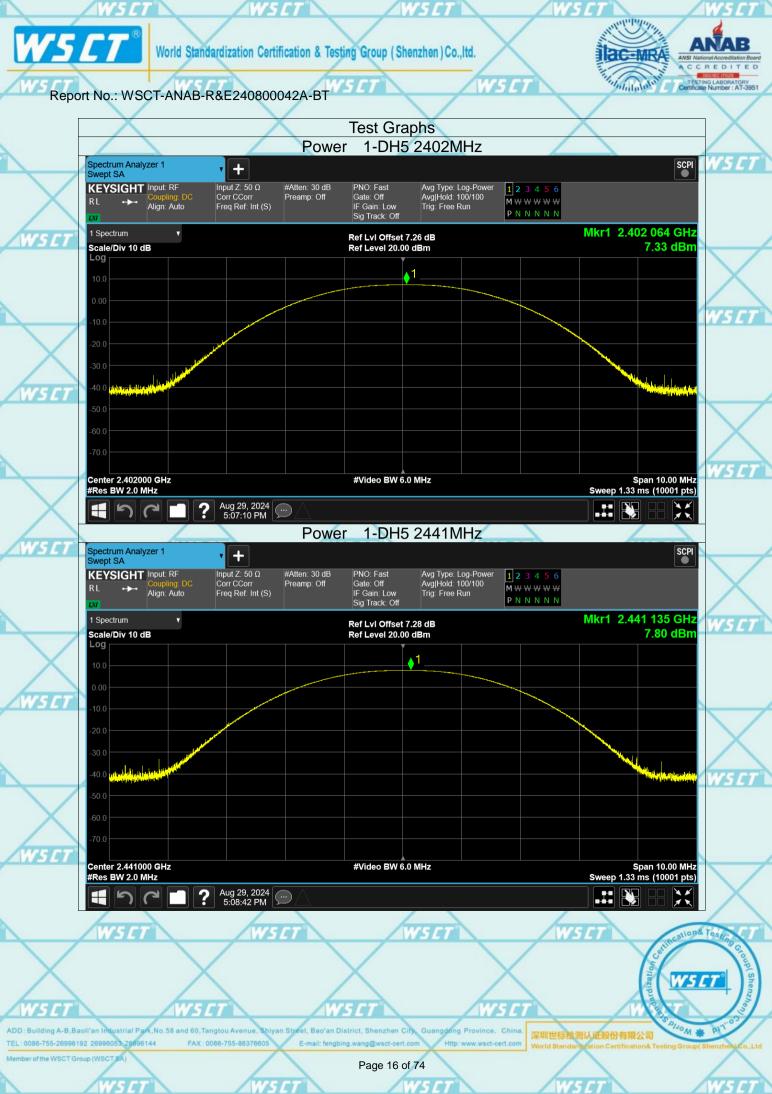
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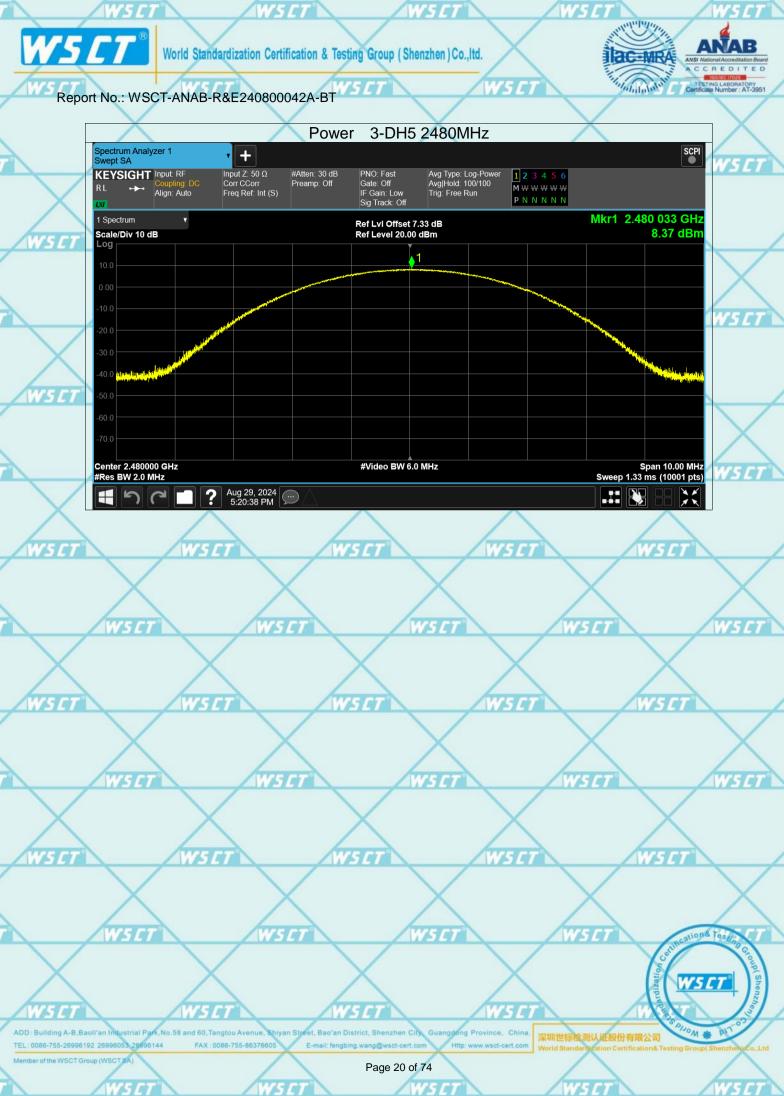


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6.4. 20dB Occupy Bandwidth

6.4.1. Test Specification

A	
Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2014
Limit:	N/A
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
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.
Test Result:	PASS

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6.4.2. Test data

WS		WSIT	WEFT		V5 / T N	
	Test channel	-20	dB Occupy Band	dwidth (MHz	.)	7
\mathbf{X}	Test channel	GFSK	π/4-DQPSK	8DPSK	Conclusion	1
CT	Lowest	1.024 // 5/	1.313	1.299	PASS	C 7
	Middle	1.010	1.287	1.290	PASS	
/	Highest	1.003	1.337	1.297	PASS	
WS		WSET	WSET		VSET	

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Test plots as follows:

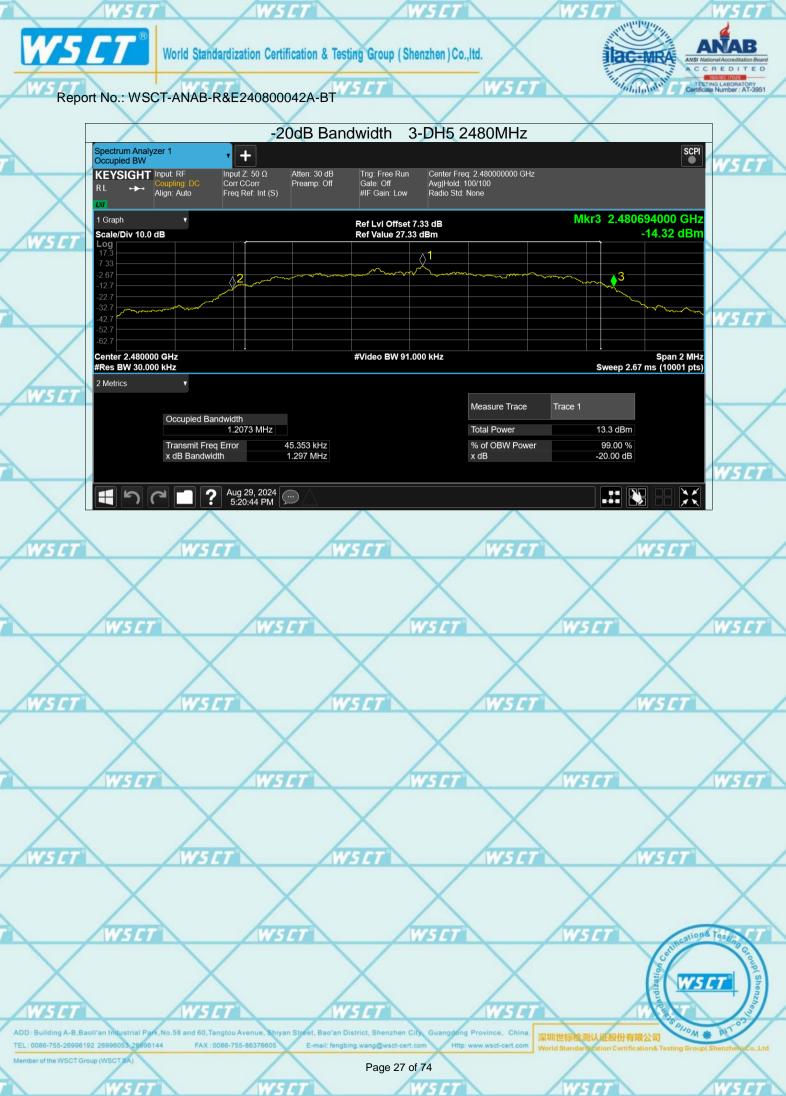


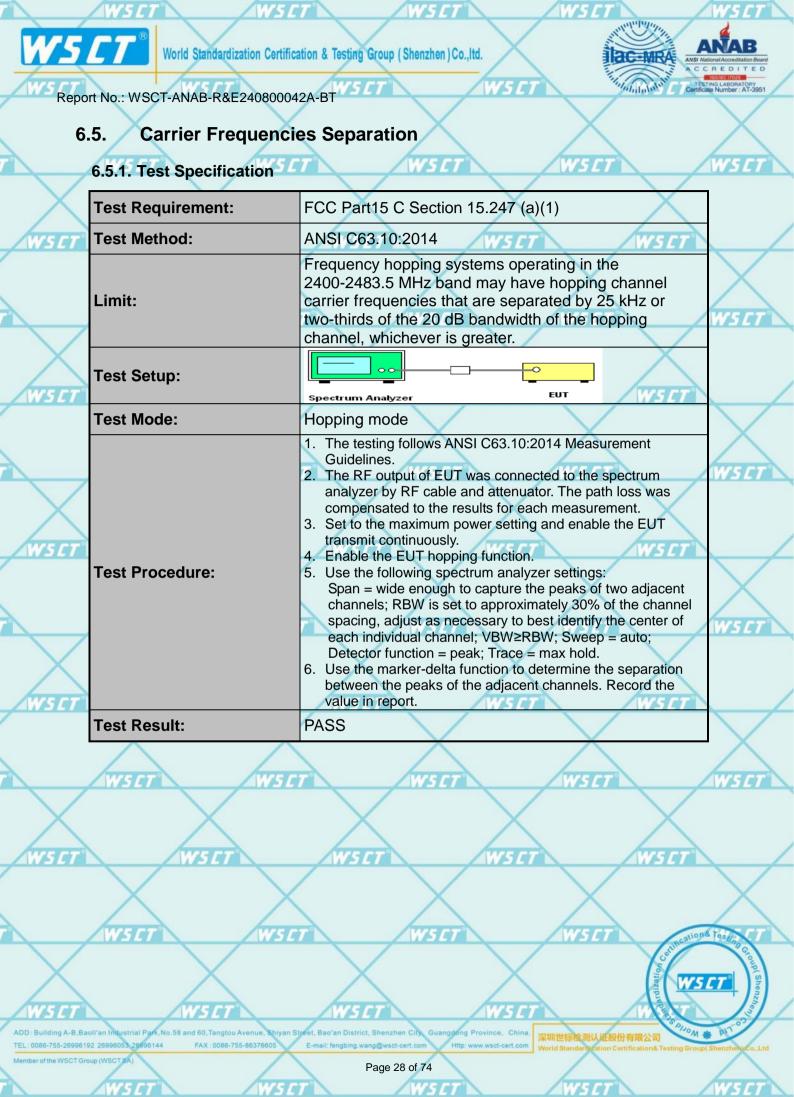


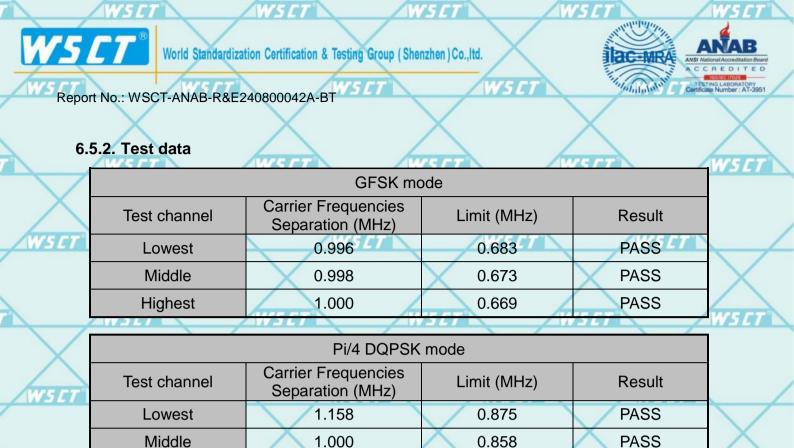












	Highest	W5 [7 1.002 W	5CT 0.891	SET PASS	Ń		
/							
		8DPSK mode					
7	Test channel	Carrier Frequencies Separation (MHz)	Limit (MHz)	Result	X		
	Lowest	0.998	0.866	PASS			
	Middle	1.008	0.860	PASS	2		
-	Highest	1.002	0.865	PASS	V		

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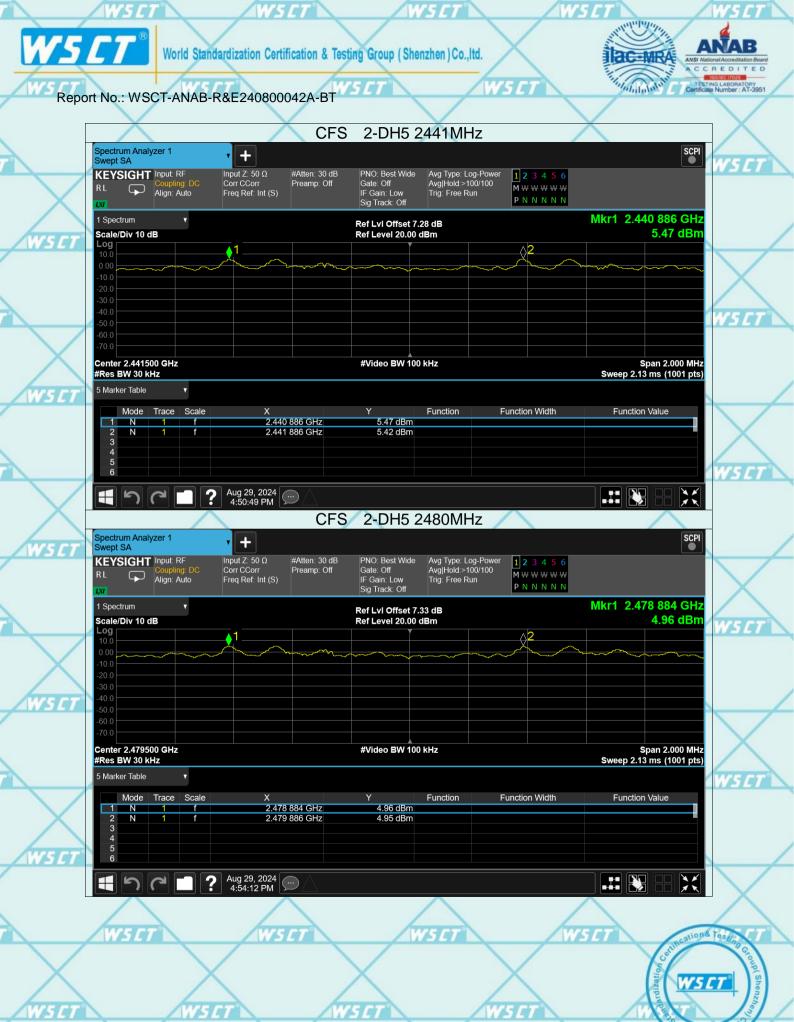
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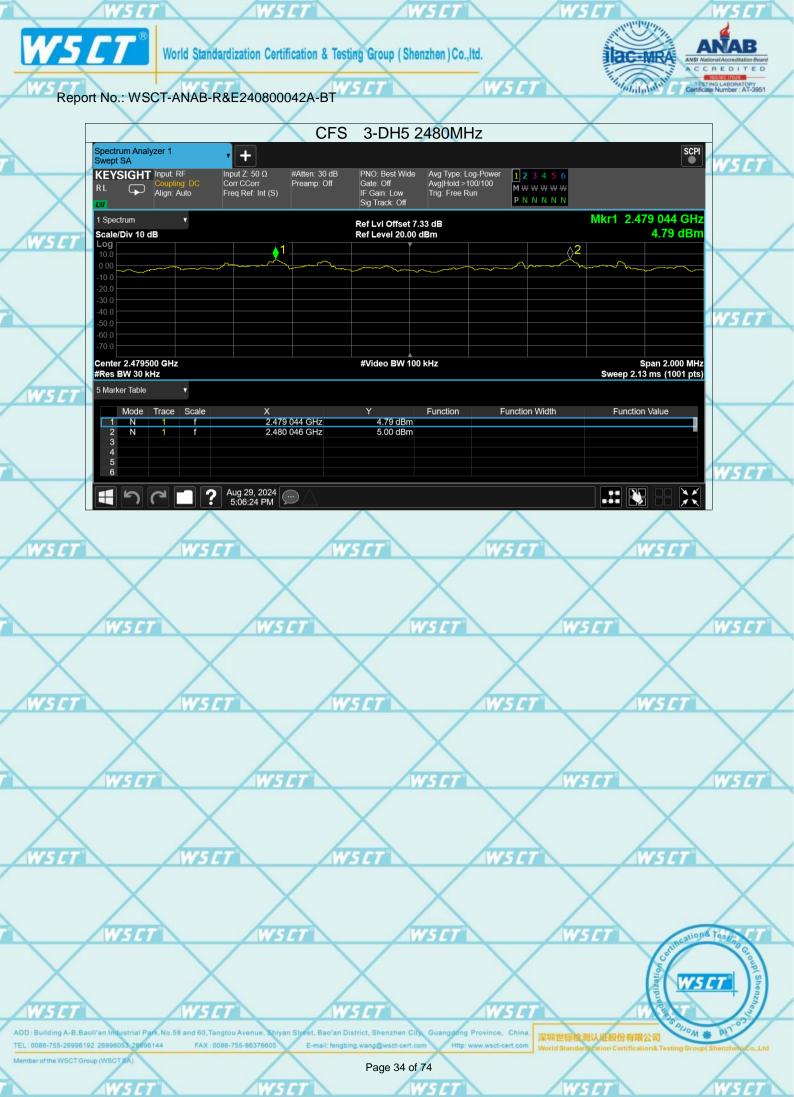
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6.6. Hopping Channel Number

6.6.1. Test Specification

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T	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.	\bigtriangleup
$\overline{\langle}$	Test Setup:		WSL/
CT		Spectrum Analyzer EUT WSCT	
	Test Mode:	Hopping mode	\bigtriangledown
67		 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 	WSET
GT	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 	WSET
		 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. 	\bigtriangledown
	Test Result:	PASS	\bigtriangleup
			WSIT

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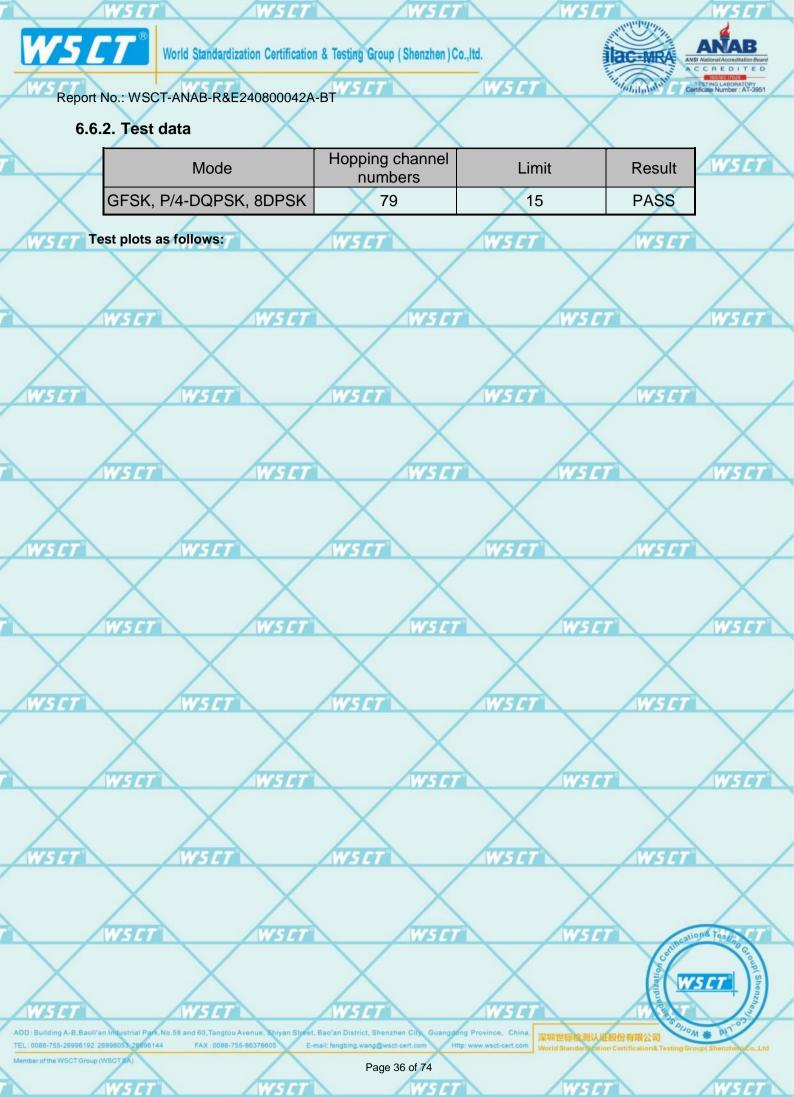
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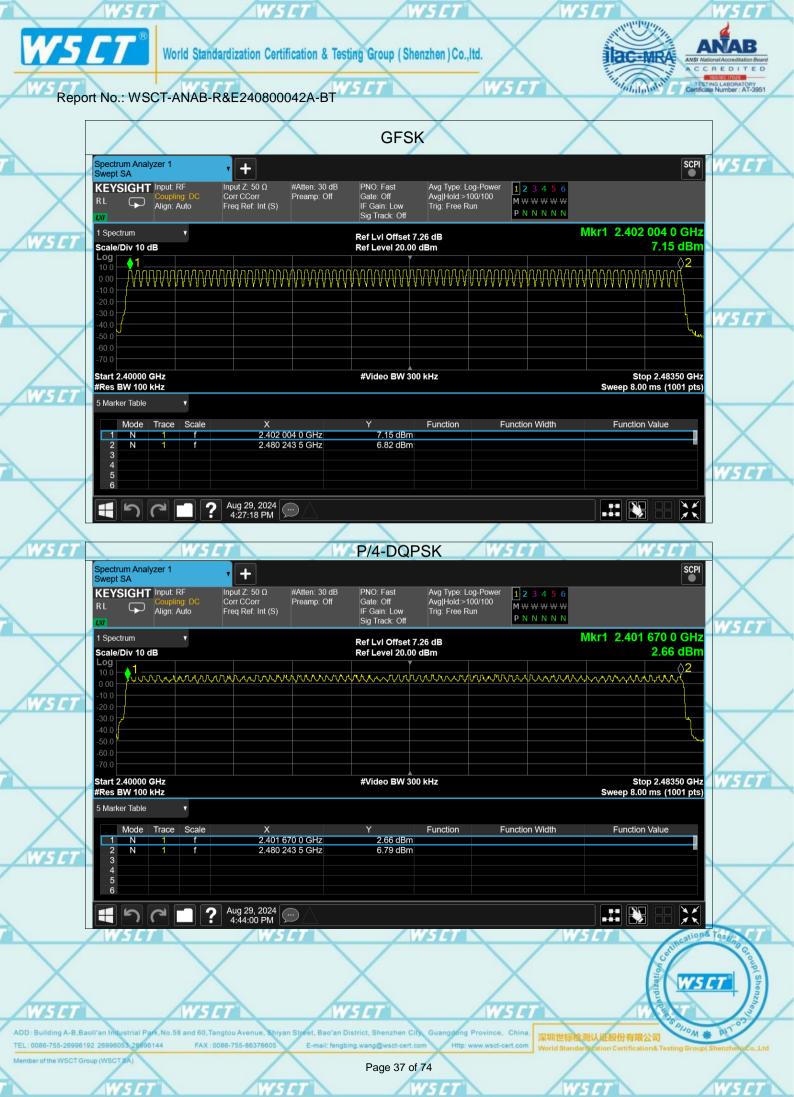
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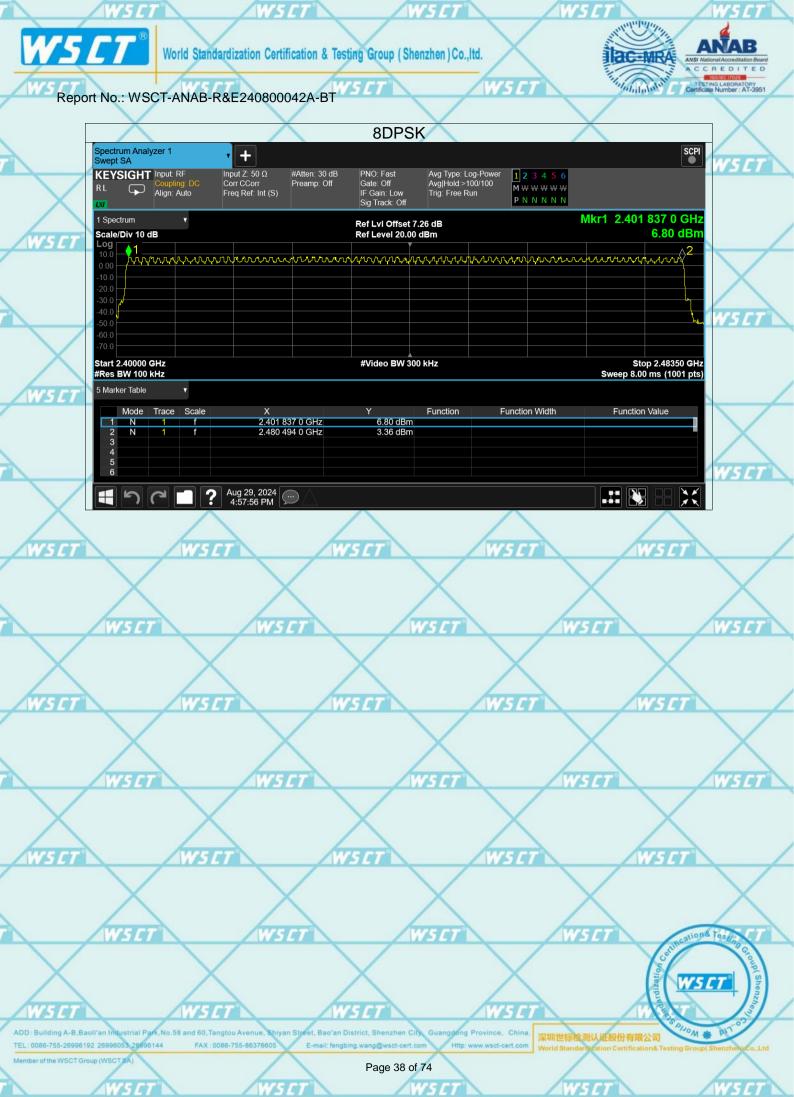
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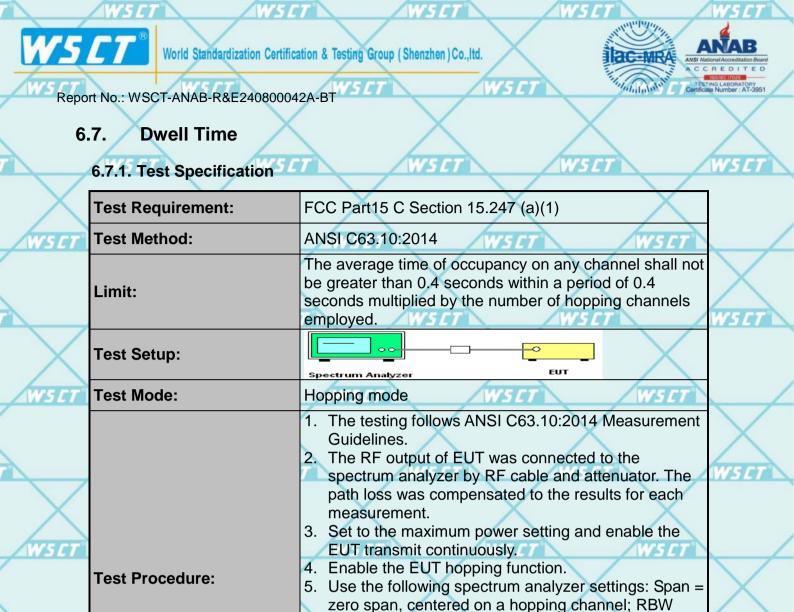
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shall be \leq channel spacing and where possible

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 =

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Measure and record the results in the test report.

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Test Result:

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max hold.

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6.7.2. Test Data

/								
	Mode	Frequency	Pulse Time	Total Dwell Time	Burst	Period Time	Limit	Verdict
		(MHz)	(ms)	(ms)	Count	(ms)	(ms)	
	1-DH1	2402	0.383	122.177	319 🧹	31600	400	Pass
	1-DH1	2441	0.381	121.539	319	31600	400 🦯	Pass
	1-DH1	2480	0.383	121.794	318	- 31600	400	Pass
	1-DH3	2402	1.639	268.796	164	31600	400	Pass
	1-DH3	2441	1.639	273.713	167	31600	400	Pass
	1-DH3	2480	1.638	262.080	160	31600 📝	400	Pass
	1-DH5	2402	2.887	294.474 🦯	102	31600	400	Pass
	1-DH5	2441	2.886	323.232	112	31600	400	Pass
1	1-DH5	2480	2.887	285.813	99	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) x (0.4 x 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) x (0.4 x 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 WS

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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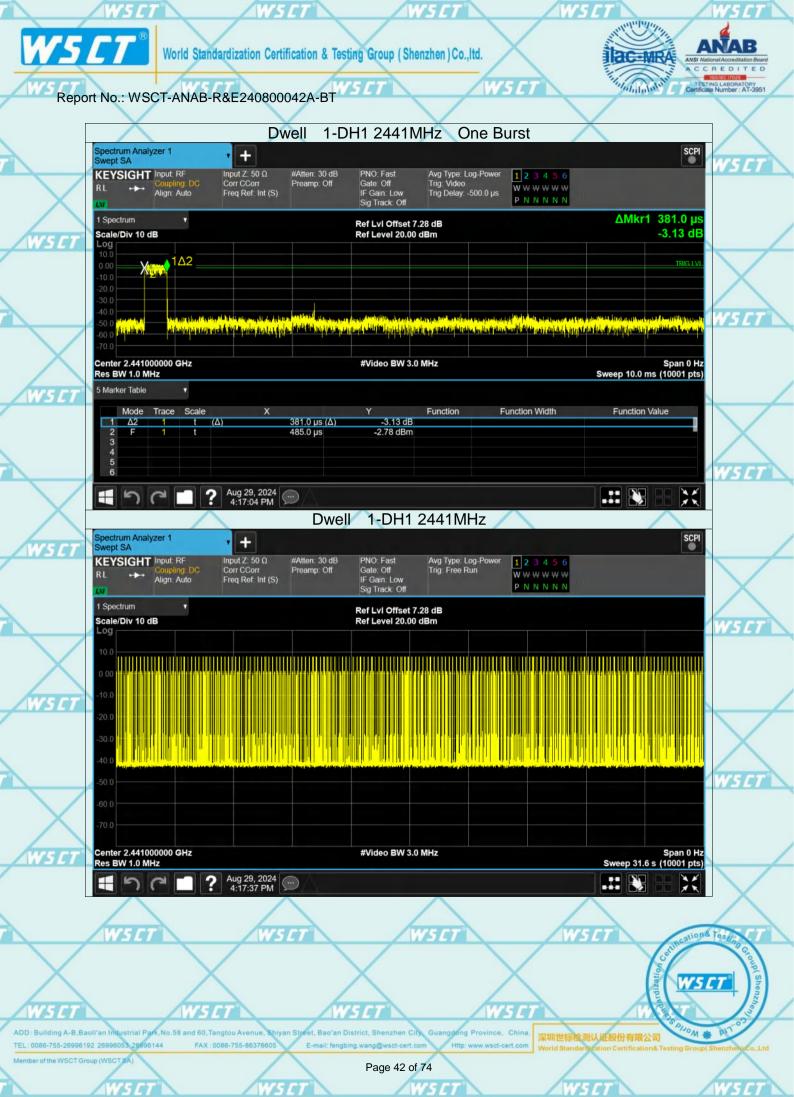
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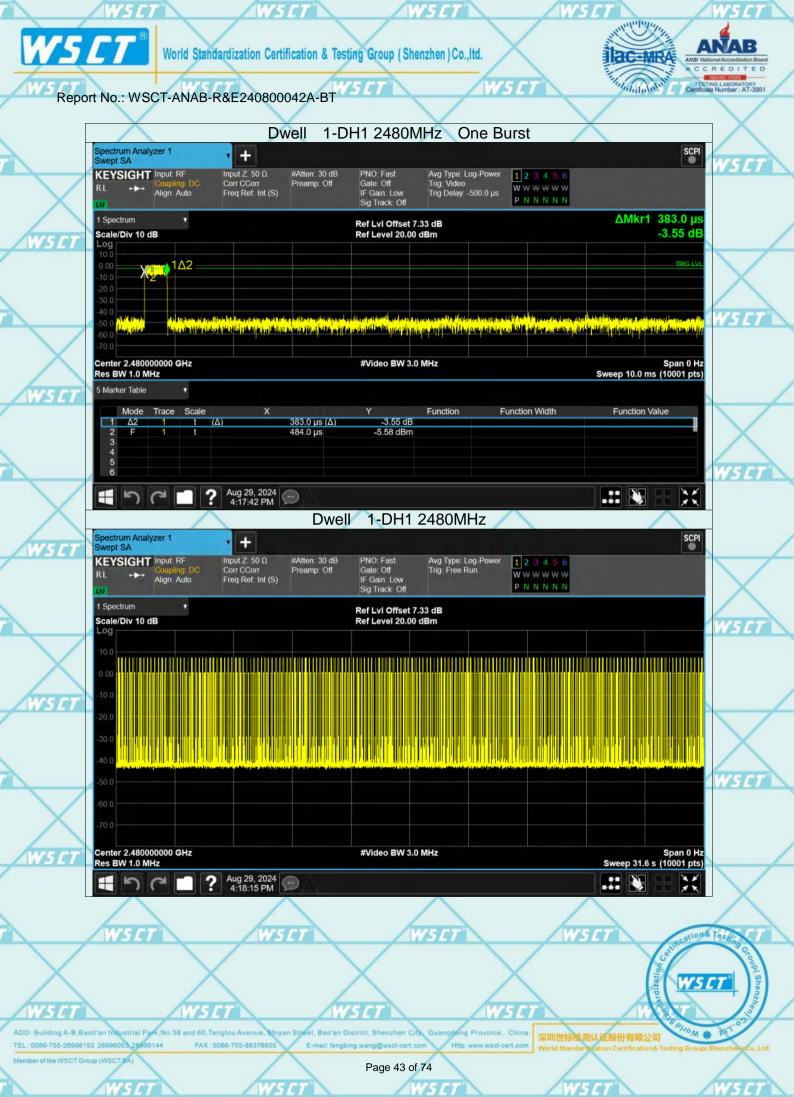
Ma FAX:0086-755-863766

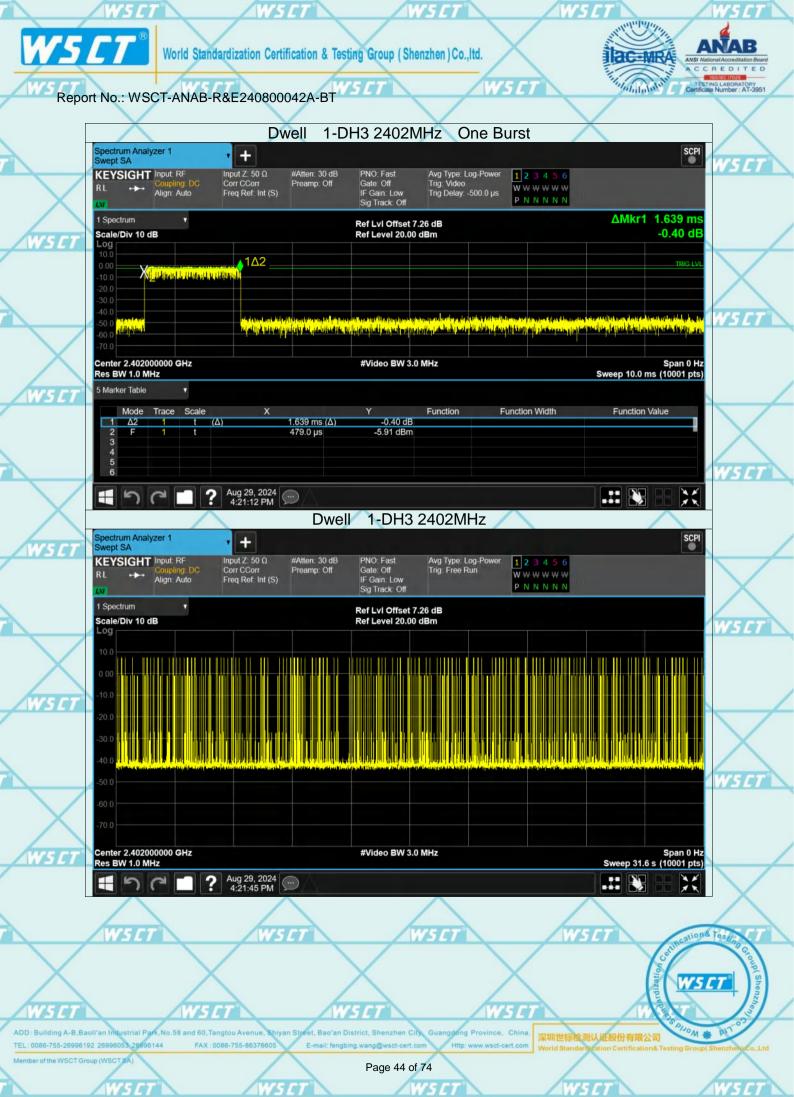
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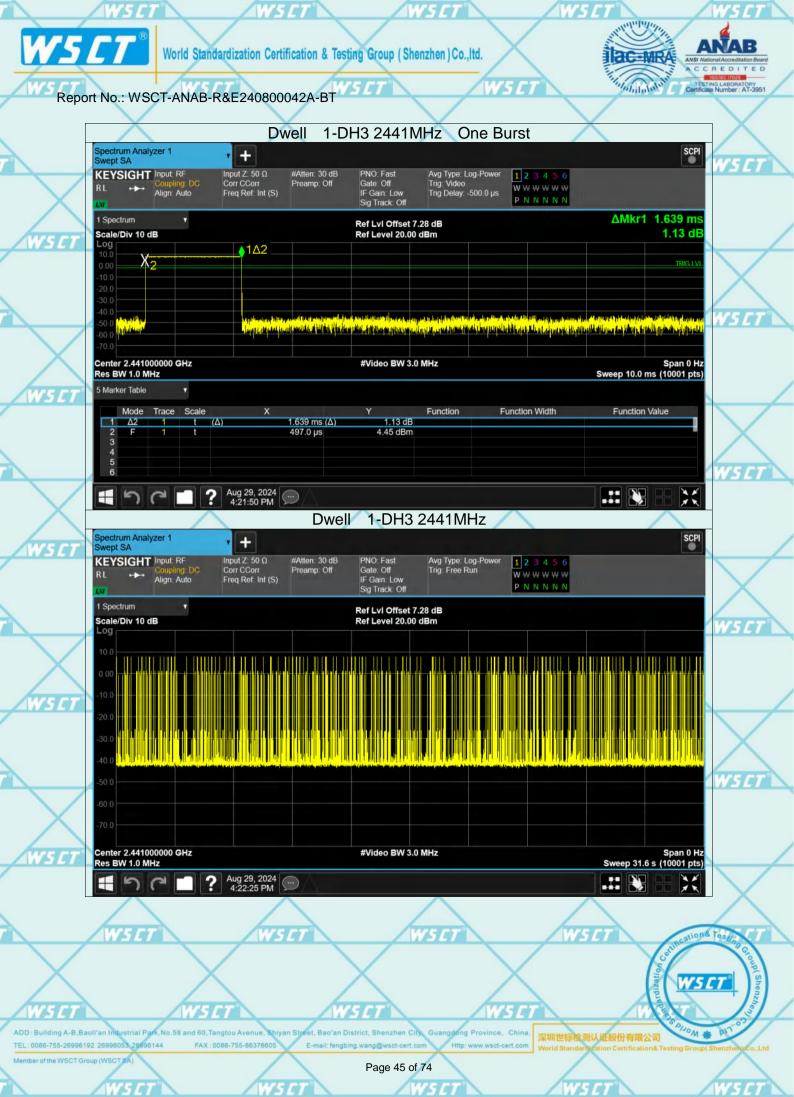
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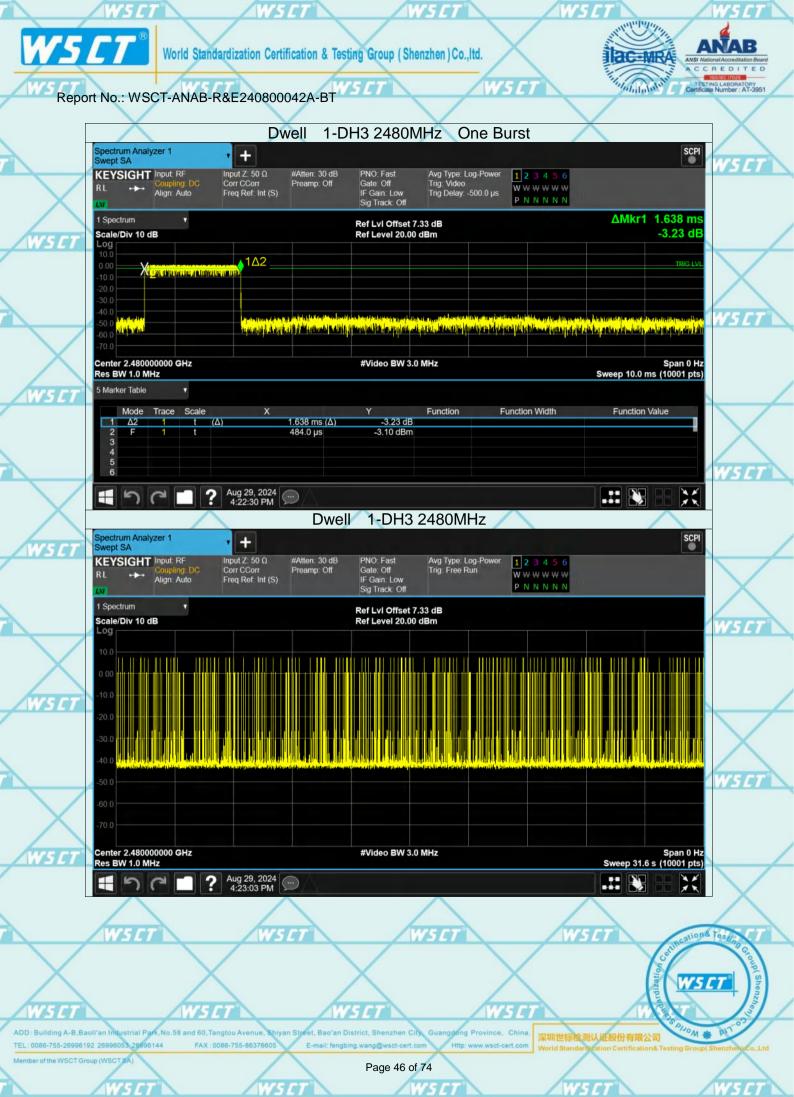


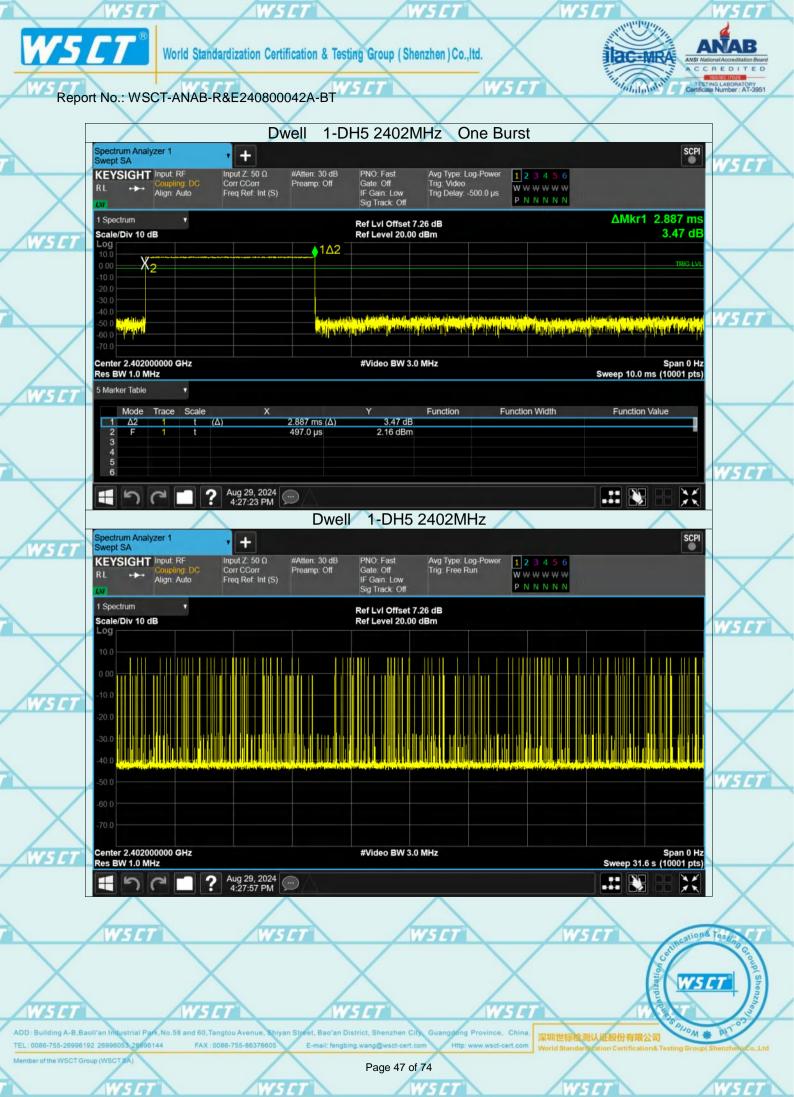


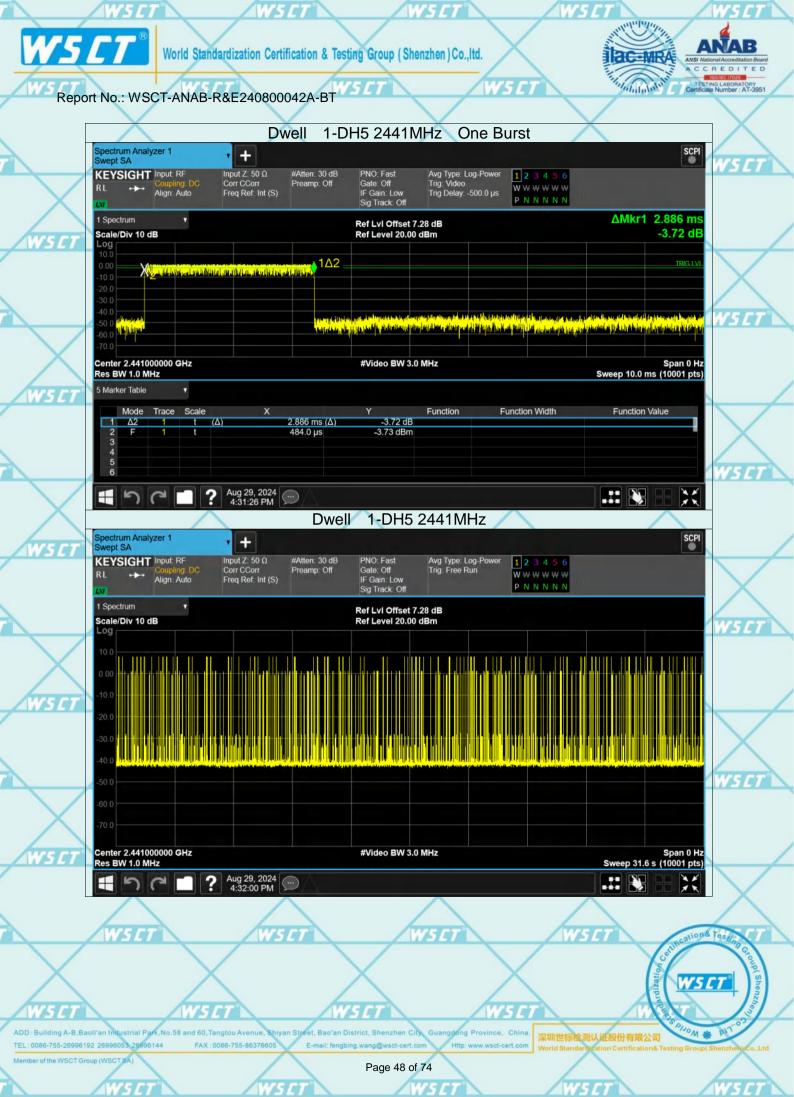


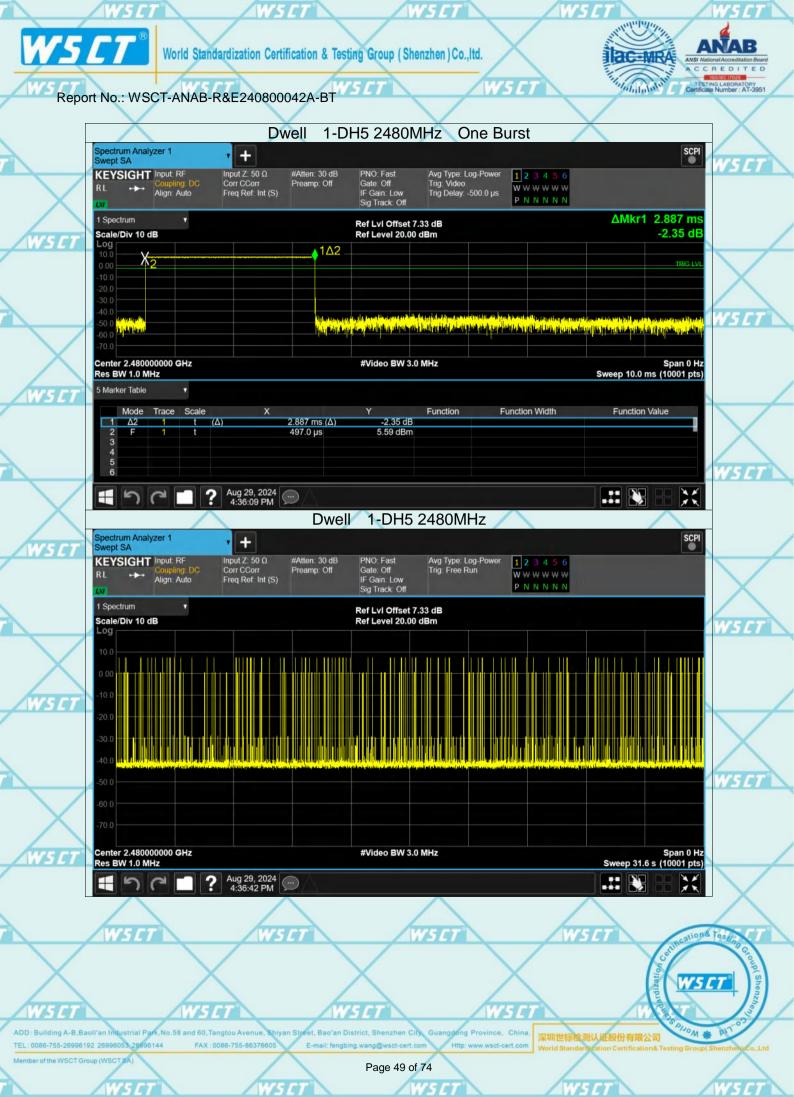














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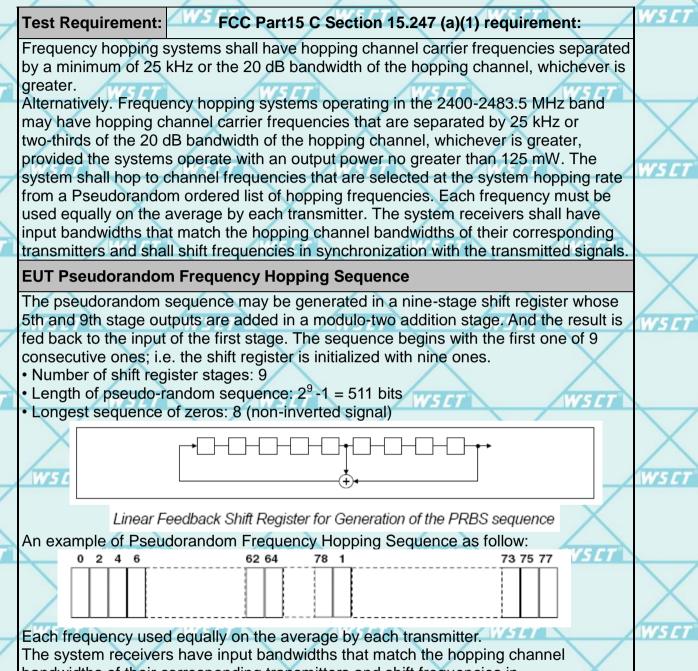
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6.8. Pseudorandom Frequency Hopping Sequence



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bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

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6.0.1 Test Specification

	6.9.1. Test Specification	I WSLI WSLI	WSL/				
X	Test Requirement:	FCC Part15 C Section 15.247 (d)					
WSET	Test Method:	ANSI C63.10:2014 W5CT W5CT					
$\overline{\mathbf{X}}$	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.	WSET				
WSET	Test Setup:	Spectrum Analyzer EUT	\checkmark				
	Test Mode:	Transmitting mode with modulation	\bigtriangleup				
WSET WSET	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. 					
	Test Result:	PASS	WSET				
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\times		T WSCT WSCT GUILDING	Croup(Shen				

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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:	 Transmitting mode with modulation 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 						
Test Result:	against the limit line in the operating frequency band. PASS						
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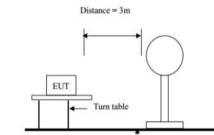


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Test setup:

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Ground Plane

Computer

Pre -Amplifier

Receiver

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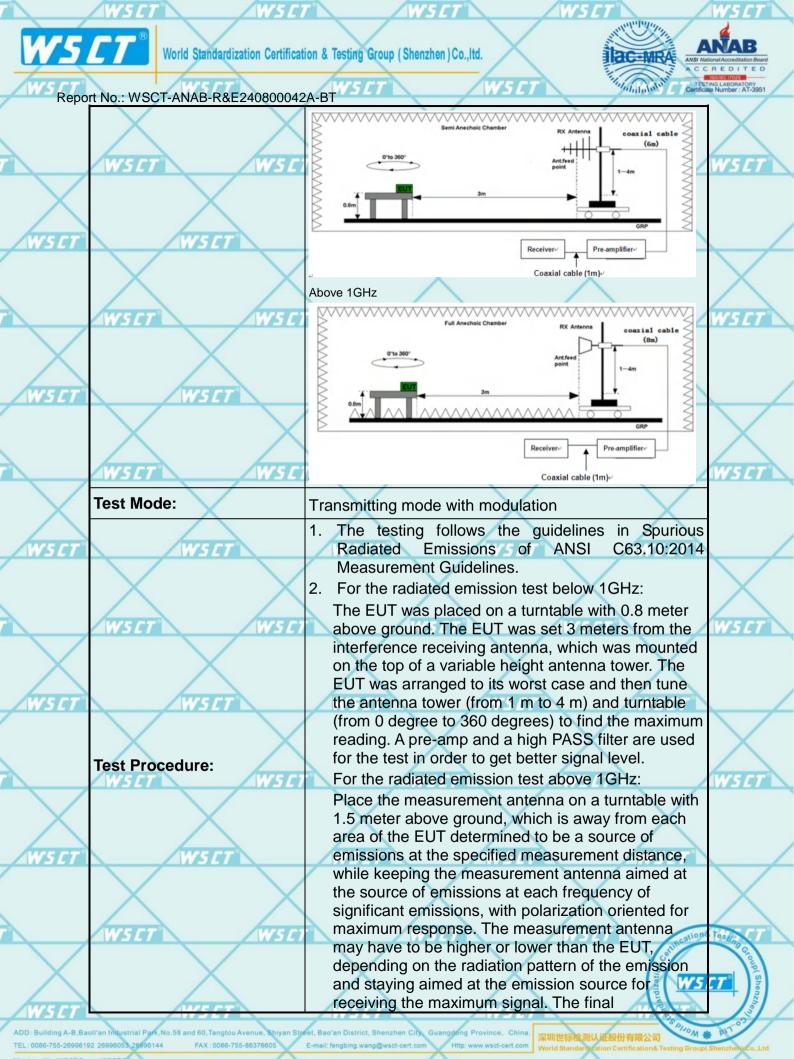
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30MHz to 1GHz

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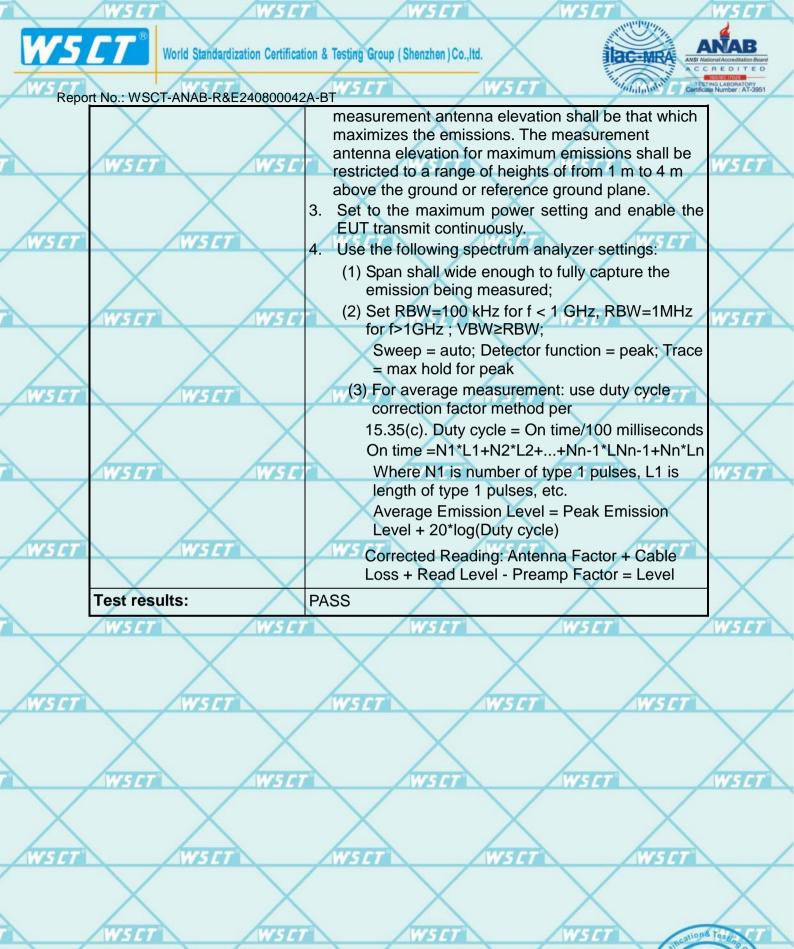
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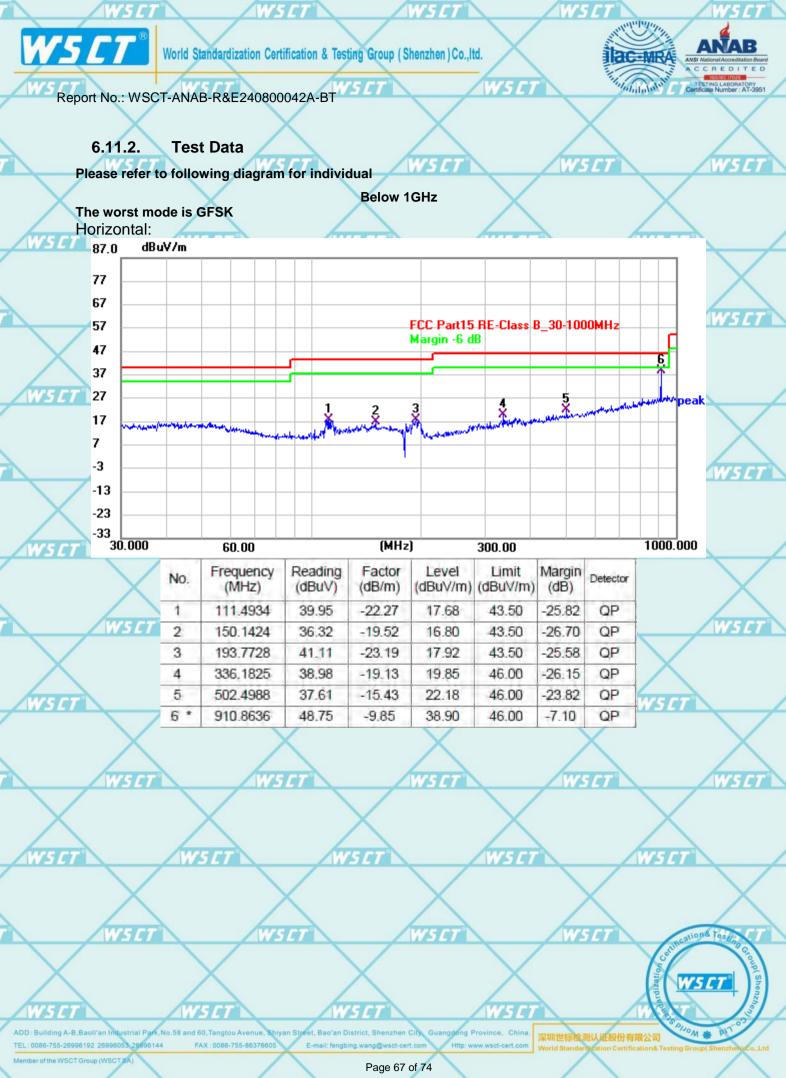
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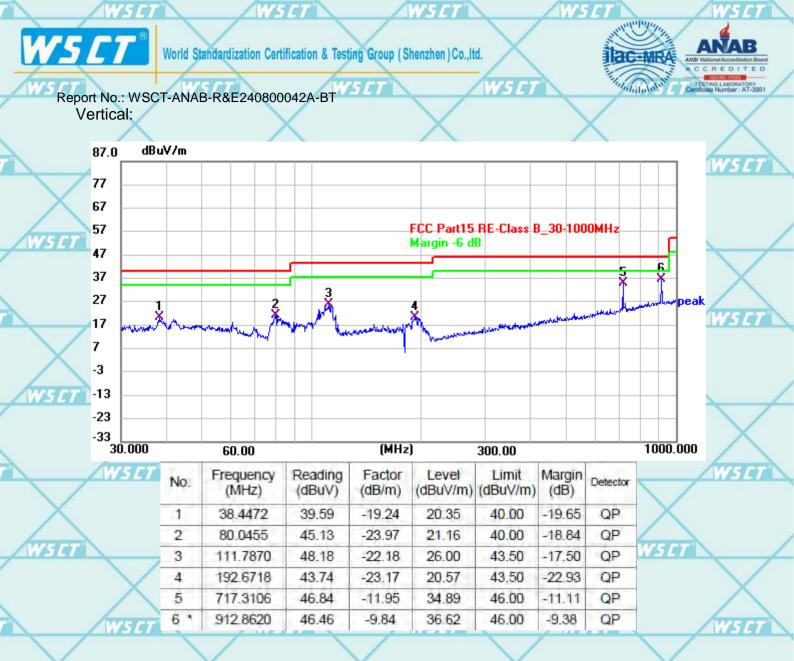
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Note1:

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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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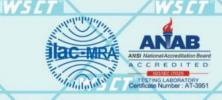
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Above 1GHz

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

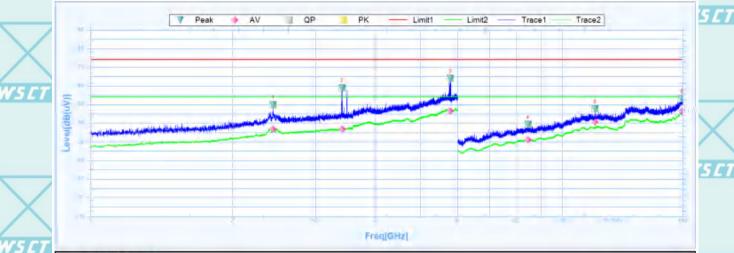
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Note 2: The spurious above 18G is noise only, do not show on the report. The worst mode is GFSK

Low channel: 2402MHz

Horizontal:



Susputed Data List										
NÓ.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdic
1	2434.3750	49.87	27.38	22.49	74	-24.13	359.5	Horizontal	PK	Pass
1	2434.3750	36.78	27.38	9.4	54	-17.22	359.5	Horizontal	AV	Pass
2	3416.2500	59.03	28.45	30.58	74	-14.97	8.9	Horizontal	PK	Pass
2	3416.2500	36.89	28.45	8.44	54	-17.11	8.9	Horizontal	AV	Pass
3	5786.8750	63.99	32.46	31.53	74	-10.01	357.8	Horizontal	PK	Pass
3	5786.8750	46.55	32.46	14.09	54	-7.45	357.8	Horizontal	AV	Pass
4	8460.0000	39.18	9,16	30.02	74	-34.82	360.1	Horizontal	PK	Pass
4	8460.0000	31.07	9.16	21.91	54	-22.93	360.1	Horizontal	AV	Pass
5	11745.0000	47.63	16.11	31.52	74	-26.37	360.1	Horizontal	PK	Pass
5	11745.0000	40.53	16.11	24.42	54	-13.47	360.1	Horizontal	AV	Pass
6	17928.0000	53.2	23.44	29.76	74	-20.8	47.1	Horizontal	PK	Pass
6	17928.0000	46.3	23.44	22.86	54	-7.7	47.1	Horizontal	AV	Pass

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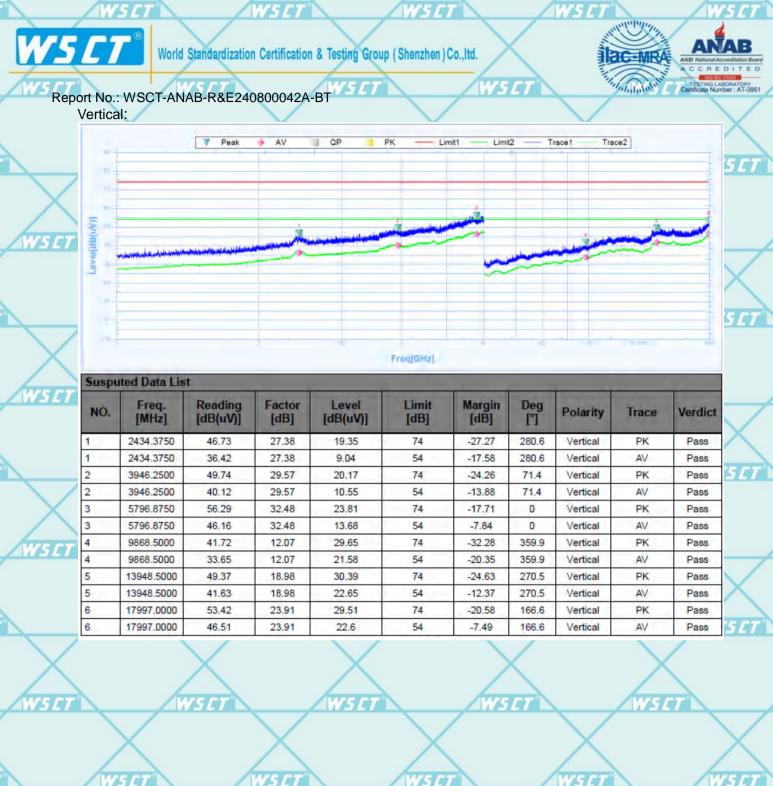
ADD: Building A-B, Baoli'an Industrial Park, No.58 and 60, Tangtou Avenue. Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China TEL: 0086-755-26996192 26996053 26996144 FAX: 0086-755-88376605 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com Http://www.wsct-cert.

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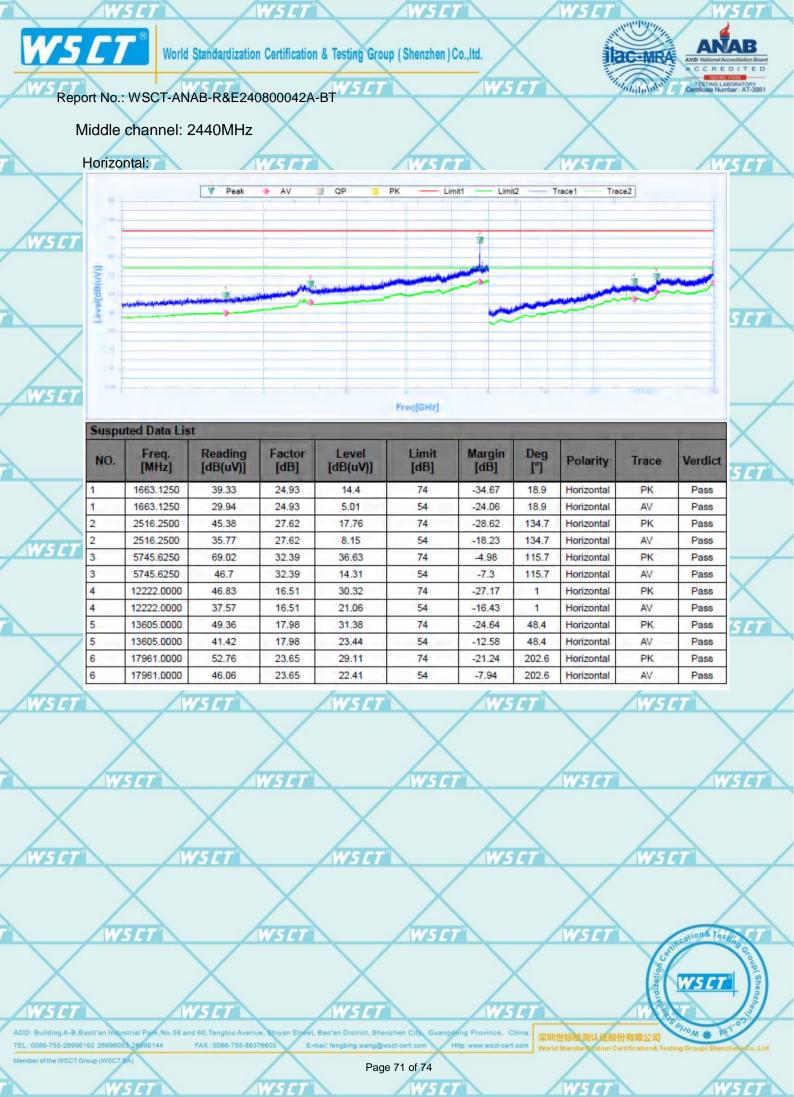
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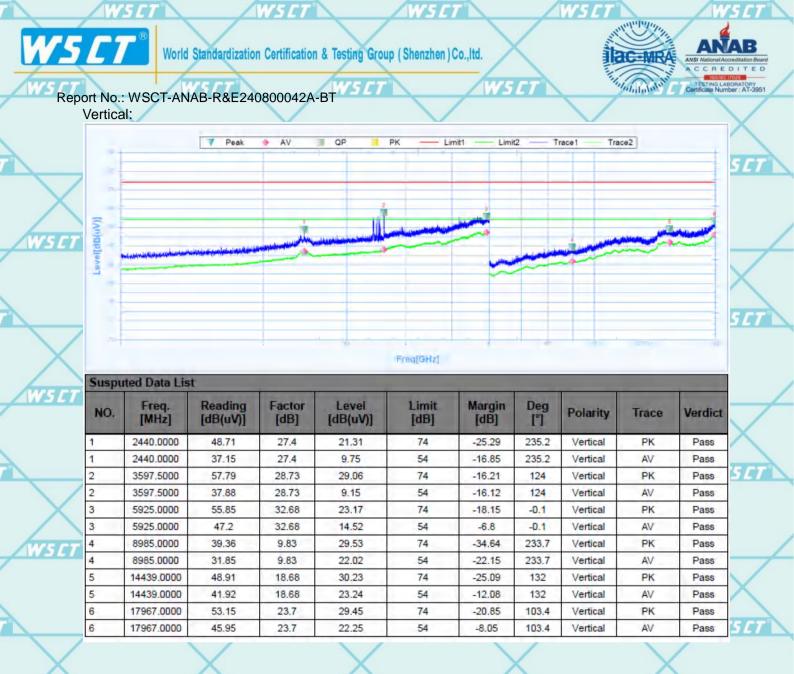
ADD: Building A-B, Baoli'an Industrial Park, No.58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen Cify, Guangdong Province, China, TEL: 0086-755-26996192 26996053 26996054 FAX: 0086-755-86376605 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com World Standard: Intion Certification& Testing Group (SCT SA)

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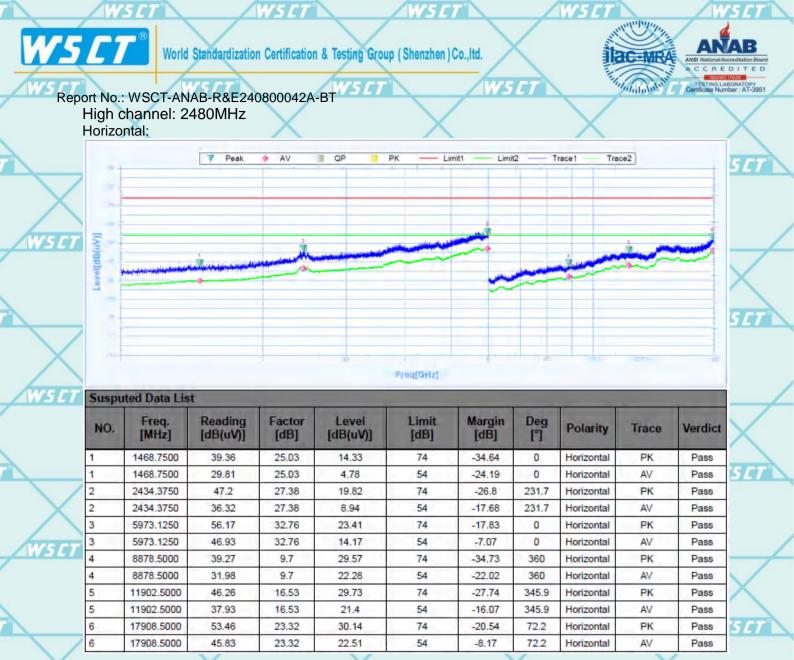
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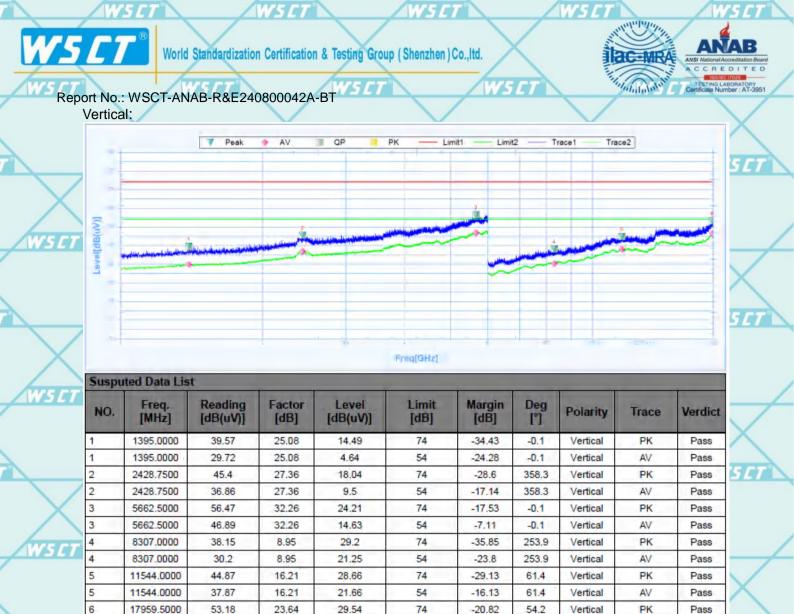
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Note:

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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.

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3. 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.

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Pass

 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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