



WSET

TEST REPORT

FCC ID: 2AXYP-OTW-630-L

Product: True Wireless Earbuds

Model No.: OTW-630

Trade Mark: oraimo

Report No.: WSCT-ANAB-R&E241200079A-LE

Issued Date: 13 January 2025

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Issued for:

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

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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

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WSCT



Report No.: WSCT-ANAB-R&E241200079A-LE

Test Certification 1.

Product: True Wireless Earbuds

Model No.: OTW-630

oraimo **Trade Mark:**

Applicant: **ORAIMO TECHNOLOGY LIMITED**

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE

WSCI

19-25 SHAN MEI STREET FOTAN NT HONGKONG

ORAIMO TECHNOLOGY LIMITED Manufacturer:

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE

19-25 SHAN MEI STREET FOTAN NT HONGKONG

Date of Test: 15 December 2024 to 13 January 2025

FCC CFR Title 47 Part 15 Subpart C Section 15.247 **Applicable**

Standards: KDB 558074 D01 DTS Meas Guidance v04

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.

Tested By:

(Wang Xiang)

Checked By:

(Chen Xu)

Cher

Approved By:

(Li Huaibi)

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Test Result Summary 2.

	THE CT.	THE CT	THE CT.	W5ET
7	Requirement	CFR 47 Section	Result	Waler
	Antenna requirement	§15.203/§15.247 (c)	PASS	
7	AC Power Line Conducted Emission	W5 ET §15.207	NA NA	\bigvee
_	Conducted Peak Output W5 [7] Power W5 [§15.247 (b)(3) §2.1046	W5 PASS	W5 ET
	6dB Emission Bandwidth	§15.247 (a)(2) §2.1049	PASS	
, ,	Power Spectral Density	§15.247 (e)	PASS	
	Band Edge W5 C	1§5.247(d) §2.1051, §2.1057	PASS W5 CT	WS CT
	Spurious Emission	§15.205/§15.209 §2.1053, §2.1057	PASS	
W AND				

Note:

1. PASS: Test item meets the requirement.

2. Fail: Test item does not meet the requirement.

3. N/A: Test case does not apply to the test object.

4. The test result judgment is decided by the limit of test standard.

W5 E1

W5 C W5 C W5 C W5C

WS E7

W5 C1 WS ET W5 CT W5 E1

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3. EUT Description

	Product Name:	True Wireless Earbuds 7 W5 C7	V5 ET
	Model :	OTW-630	
	Trade Mark:	oraimo	
7/	Operation Frequency:	2402MHz~2480MHz	
	Channel Separation:	2MHz	X
	Number of Channel:	407 WSET WSET	V5 ET
/	Modulation Technology:	GFSK	
7	Antenna Type:	PIFA Antenna	
	Antenna Gain:	1.53dBi	$ egthinspace{-1mm} otag$
	Operating Voltage	Li-ion Battery:ZWD14280PV 650mAh 3.8V 2.47Wh Button Type Lithium Ion Cell:CH1254AA	V5 ET
		3.85V 76mAh 0.2926Wh	
1	Remark:	N/A.	

Operation Frequency each of channel

	Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
	WO- 77	2402MHz	10,	2422MHz	20	2442MHz	30	2462MHz
7	1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
		X		X		X		X
_	8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz
	Remark: Channel 0, 19 & 39 have been tested.							

	W5 CT	W5 ET°	W5C	7° W	SET"	WSET"
	/					
X		X	X	X	X	
WSE		VS CT	WSCT	WELT	WSET	
ZIP13			ALE ISA	WSET	- NEIGH	

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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(The value of duty cycle is 98.46%) with Fully-charged battery.

The sample was placed (0.1m below 1GHz, 1.5m 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.

0	Equipment	Model No.	Serial No.	FCC ID	Trade Name
	Adapter	XCU32	X	1	/

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, 6dB Emission Bandwidth, Power Spectral Density, 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

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

5.2.ACCREDITATIONS

ANAB - Certificate Number: AT-3951

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

WSCT	WSET	WSET	WSET	WSLT
\times	ET WSE	$\langle \hspace{0.1cm} \rangle$	$\langle \hspace{0.1cm} \rangle$	
WSET	W5 CT	WSET	WSET	WSCT
\times	WS E	$\langle \hspace{0.1cm} \rangle$	$\langle \hspace{0.1cm} \rangle$	
WSET	WSCT	WSET	WSET	WSET
\times	CT W5C	$\langle \hspace{0.1cm} \rangle$	$\langle \hspace{0.1cm} \rangle$	
WSET	WSET	WSET	\times	X
\times	ET WSE	$\langle \ \rangle$	A Sardisetion Co.	WSCT Pesting Group (Shenzher)

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5.3. Measurement Uncertainty

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 %.

	No.	Item	MU	
W5CT°	1	Power Spectral Density	±3.2dB	
	2	Duty Cycle and Tx-Sequence and Tx-Gap	±1%	X
	3 _{W5} [Medium Utilisation Factor W5 77	±1.3%	W5CT
	4	Occupied Channel Bandwidth	±2.4%	
	5	Transmitter Unwanted Emission in the out-of Band	±1.3%	
WSET"	6	Transmitter Unwanted Emissions in the Spurious Domain	±2.5%	
	7 X	Receiver Spurious Emissions	±2.5%	X
	8W5 [Conducted Emission Test W5 [7]	±3.2dB	W5 ET
	9	RF power, conducted	±0.16dB	
	10	Spurious emissions, conducted	±0.21dB	
W5ET°	11	All emissions, radiated(<1GHz)	±4.7dB	
	12	All emissions, radiated(>1GHz)	±4.7dB	X
	13 <i>V5 L</i>	Temperature W5 CT W5 CT WS	±0.5°C	W5 CT
X	14	Humidity	±2.0%	
				•

WSET WSET WSET WSET WSET WSET	7
$X \times X \times X$	71
XXXXX	
WSCT WSCT WSCT WSCT WSCT	
	7
WSET WSET WSET WSET	

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5.4.MEASUREMENT INSTRUMENTS

	J.T. WILAGUILL	ILIAI IIASTIKON	ILITIO				
_	NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.	75 E
<	Test software		EZ-EMC	CON-03A	-	X-	
	Test software	/	MTS8310	WSIT	- /	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	X
	LISN(EUT)	Mestec	AN3016	04/10040	11/05/2024	11/04/2025	'5 C
<	Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	11/05/2024	11/04/2025	
5	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 C
	Pre-Amplifier	CDSI	PAP-1G18-38	/	11/05/2024	11/04/2025	
1	Bi-log Antenna	SCHWARZBECK	VULB9168	01488	11/05/2024	11/04/2025	
5	9*6*6 Anechoic	ET V	VS CT .	W.S CT	11/05/2024	11/04/2025	
	Horn Antenna	COMPLIANCE ENGINEERING	CE18000		11/05/2024	11/04/2025	X
	Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	11/05/2024	11/04/2025	15 C
,	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	V5/7N/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	6502W5	00042960	11/05/2024	11/04/2025	15 C
1	Horn Antenna	SCHWARZBECK	BBHA 9170	1123	11/05/2024	11/04/2025	
	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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Test Results and Measurement Data 6.

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. 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 PIFA Antenna. it meets the standards, and the best case gain of the antenna is 1.53dBi.

Please refer to the attachment "OTW-630(L) Internal Photo" for the antenna location

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6.2. Conducted Emission

6.2.1. Test Specification

WSET

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6.	2.1. Test Specification	WPG WPG	UPIGE
X	Test Requirement:	FCC Part15 C Section 15.207	
W5 CT	Test Method: 5 77	ANSI C63.10:2014 W5 [T] W5 [T]	
	Frequency Range:	150 kHz to 30 MHz	\times
	Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto	W5 CT
WSET	Limits:	Frequency range (MHz) Limit (dBuV) 0.15-0.5 66 to 56* 56 to 46* 0.5-5 56 46 5-30 60 50	
		Reference Plane	\wedge
	WSET WSE	40cm 10cm	W5CT"
WSET	Test Setup:	Remark E.U.T Adapter Remark E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	WSET
\times	Test Mode:	Charging + Transmitting Mode	
WSET	WSET	1. The E.U.T is connected to an adapter through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the	
		measuring equipment. 2. The peripheral devices are also connected to the main	
WSET	WSCT WSC		
	WSET WSE	conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2014 on conducted measurement.	Testic
	Test Result:	N/A	3 Group

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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

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.

Test data:

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

WSET	WSET	WSET	WSET	WSET
	SET WS	$\langle \hspace{0.1cm} \rangle$	$\langle \hspace{0.1cm} \rangle$	$\langle \times $
WSET	WSET	WSET	WSET	WSET
	SET WS	$\langle \hspace{0.1cm} \rangle$	$\langle \hspace{0.1cm} \rangle$	$\langle \times $
WSET	WSET	WSET	WSLT	WSCT
	SCT WS	$\langle \hspace{0.1cm} \rangle$	$\langle \hspace{0.1cm} \rangle$	$\langle \times \rangle$
WSET	WSET	WSET	WSCT	WSCT
	SET WS	$\langle \hspace{0.1cm} \rangle$	$\langle \hspace{0.1cm} \rangle$	$\langle \times \rangle$
WSLT	WSET	WSET	WSET	WSET WSET
				(P) (100)

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6.3. Conducted Output Power

6.3.1. Test Specification W5 ET

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X	Test Requirement:	FCC Part15 C Section 15.247 (b)(3)	
WSET	Test Method:	KDB558074 W5 CT W5 CT	
	Limit:	30dBm	\times
	Test Setup:		W5 CT
		Spectrum Analyzer EUT	
WSET	Test Mode:	Refer to item 4.1 W5 [T]	
	Test Procedure:	 The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v04. Set spectrum analyzer as following: 5 7 7 a) Set the RBW ≥ DTS bandwidth. b) Set VBW ≥ 3 x RBW. 	WSET
WSET		c) Set span ≥ 3 x RBW d) Sweep time = auto couple.7	
		 e) Detector = peak. f) Trace mode = max hold. g) Allow trace to fully stabilize. h) Use peak marker function to determine the peak 	WSCT
7		amplitude level.	
X	Test Result:	PASS	
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W	75 <i>ET</i>	WSCT	WSET	WSCT	WSET
WSCT	WSET		ET W	SCT W	507

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6.3.2. Test Data

		BLE 1M	1		W5CT
\times	Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result	
	Lowest	8.04	30.00	PASS	
W5 CT	Middle	7.93	30.00	PASS	
	Highest	7.37	30.00	PASS	X
		BLE 2M	1		WSCT
$\overline{}$	Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result	W-1-7-A
	Lowest	8.07	30.00	PASS	
W5 CT°	Middle	7.925	30.00	PASS C7	
	Highest	7.34	30.00	PASS	\times

Test ni	ots as follows:	ET W	SET	W5CT	WSET
W5 CT	W5 ET	WSET	WSET	WSET	
W5	ET W5	ET W	SET	WSET	WSCT
WSCT	WSET	WSET	WSET	WSET	
WS	$\langle \hspace{0.1cm} \rangle$		SET	WSET	WSET
WSET	WSET	WSET	WSET	WSET	
WS			SET	\times	në tasi
				Section	na Testino Group

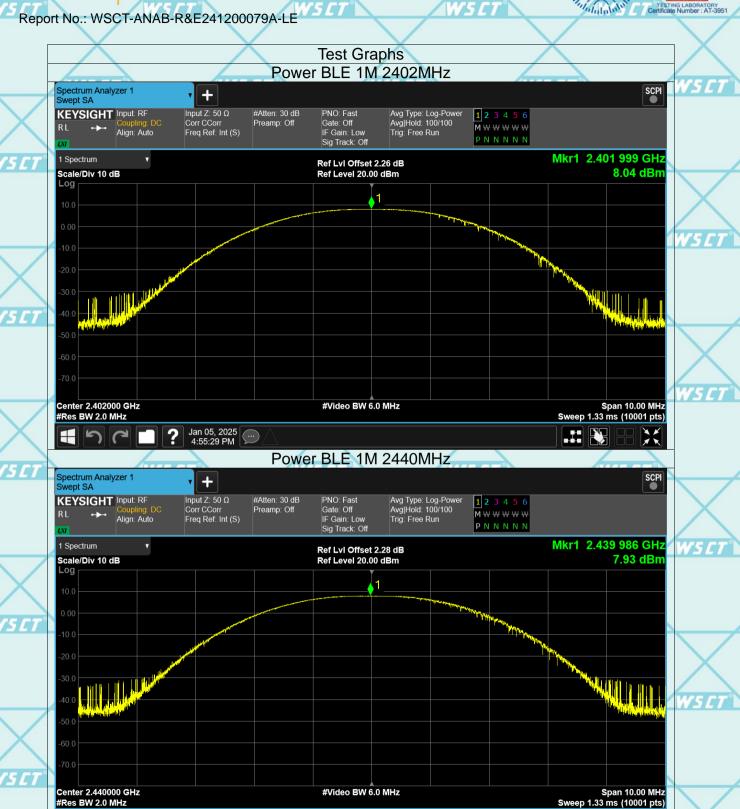
D: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province. China L: 0086-755-26996192 26996053 26996144 FAX: 0086-755-86376605 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com

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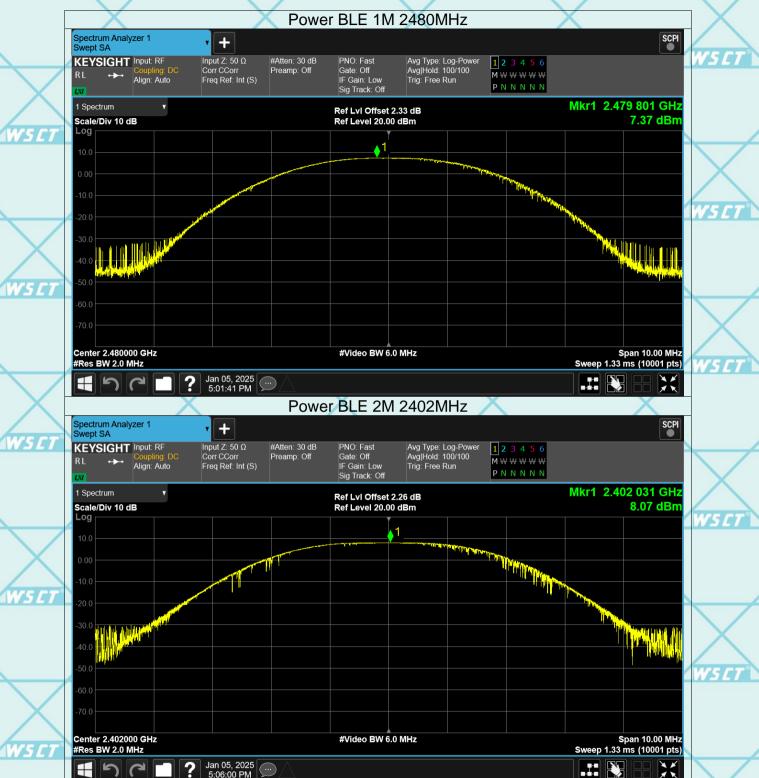




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6.4. Emission Bandwidth

6.4.1. Test Specification 45 E1

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Test Requirement:	FCC Part15 C Section 15.247 (a)(2)	X
Test Method:	KDB558074 W5 LT	WS CT"
Limit:	>500kHz	X \
Test Setup:		T W's
	Spectrum Analyzer EUT	
Test Mode:	Refer to item 4.1	WSET
	 The testing follows FCC KDB Publication DTS D01 Meas. Guidance v04. Set to the maximum power setting a EUT transmit continuously. 	\times
Test Procedure:	3. Make the measurement with the speresolution bandwidth (RBW) = 100 kHz. Video bandwidth (VBW) = 300 kHz. an accurate measurement. The 6dE	ectrum analyzer's kHz. Set the . In order to make
	be greater than 500 kHz. 4. Measure and record the results in th	e test report.
Test Result:	PASS	

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6.4.2. Test data

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	Test channel	6dB Emission Bandwidth (kHz)				
X	rest channel	B ⁻	Γ LE mode	Limit	Result	
WSET	Lowest	/	0.622	>500k	WSCT	
	Middle		0.619	>500k	PASS	\bigvee
	Highest		0.641	>500k		\wedge
D	E 2M	444 64	TARE CES	THE PERSON NAMED IN COLUMN 1		THE STATE OF THE S

6dB Emission Bandwidth (kHz) Test channel BT LE mode Limit Result W5 C1 Lowest 0.845 >500k Middle 0.845 >500k **PASS** 0.845 Highest >500k

Test plots as follows:

WS CI

X	X	X	X

W5CT°	WSET	WSCT	WSCT	W5CT"

WSEI

W5 CT	W5 CT	W5 CT	W5 CT	W5 ET
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W5CT"	WSET	WSET	WSET	W5CT°

	W5CT	W5CT	W5 CT	WSET	cation& Testin	
1			WSET	(Section)	S Gran	

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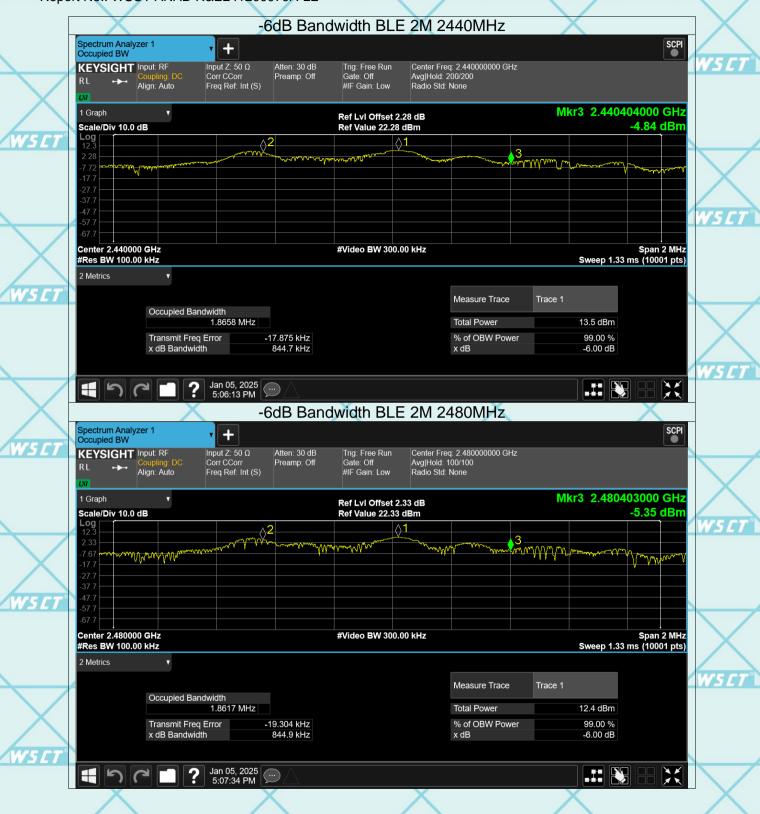
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6.5. Power Spectral Density

6.5.1. Test Specification

	WSIT		WSCT
egreen	Test Requirement:	FCC Part15 C Section 15.247 (e)	
	Test Method:	KDB558074	
WS ET"	Limit:	The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.	X
	Test Setup:	Specification Application FUT	WSET
	Test Mode:	Refer to item 4.1	
NS ET	Test Procedure:	 The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v04 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. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW) Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level. Measure and record the results in the test report. 	W5 CT
	Test Result:	PASS	X
	Week Week	The second secon	(m)

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6.5.2. Test data

	Toot obannal	Power Spectral Density (dBm/3kHz)			W5L
	Test channel	BLE 1M	Limit	Result	
	Lowest	-1.7	8 dBm/3kHz		
7 °	Middle	W-1.87	8 dBm/3kHz	PASS	
	Highest	-2.47	8 dBm/3kHz		X

Toot obannal	Power Spectral Density (dBm/3kHz)			
Test channel	BLE 2M	Limit	Result	
Lowest	-1.77	8 dBm/3kHz		
Middle	-1.84	8 dBm/3kHz	PASS	
Highest	-2.41	8 dBm/3kHz		

Test plo	ots as follows:	CT WS	CT° W'	ET° V	VS CT
WSCT	WSET	WSET	WSET	WSET	
WS	CT WS	ET WS		SET V	VSET*
WSCT	WSET	WSET	WSET	WSET	
WS					VSET*
WSCT	WSET	WSET	WSET	WSET	

W5 ET W5 CT W5E7

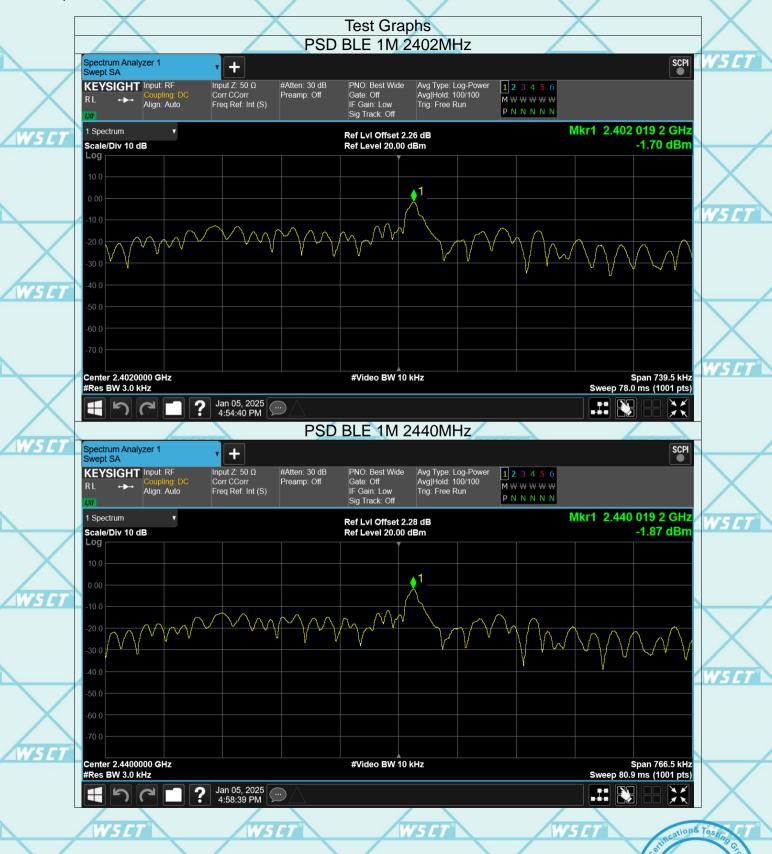
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6.6. Conducted Band Edge and Spurious Emission Measurement

6.6.1. Test Specification

6.	6.1. Test Specification	T WSET WSET	<i>W5 [T</i>]	
\sim	Test Requirement:	FCC Part15 C Section 15.247 (d)		
W5LT [®]	Test Method:	KDB558074		
WSCT	Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).	WSCT	
	Test Setup:	Spectrum Analyzer EUT	WSCT	
	Test Mode:	Refer to item 4.1		
WSCT	Test Procedure:	 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=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over 	WSCT	
	Test Result:	PASS	X	

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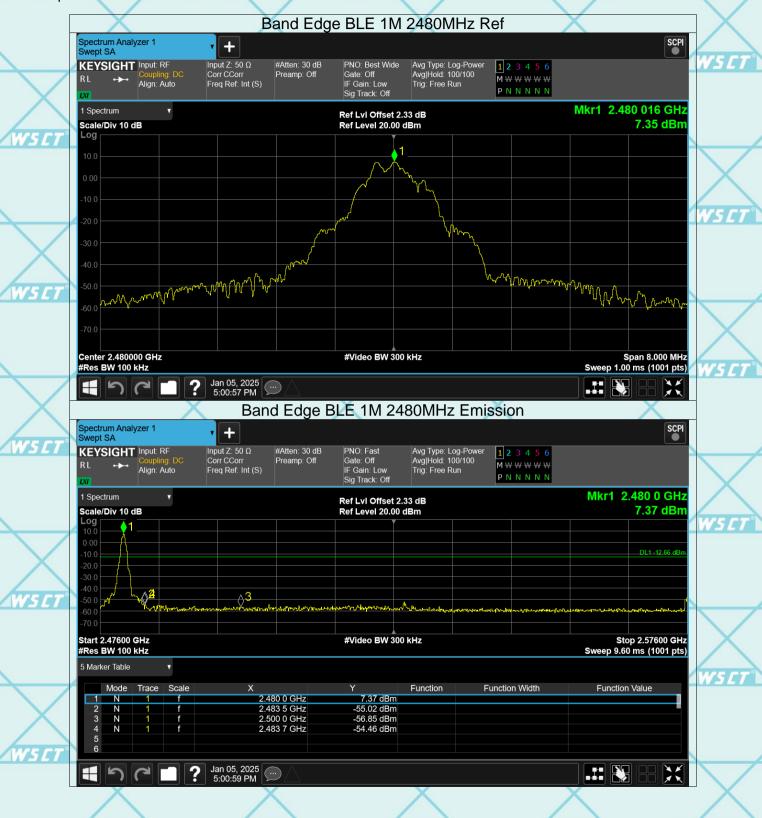
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Conducted RF Spurious Emission

Test Graphs





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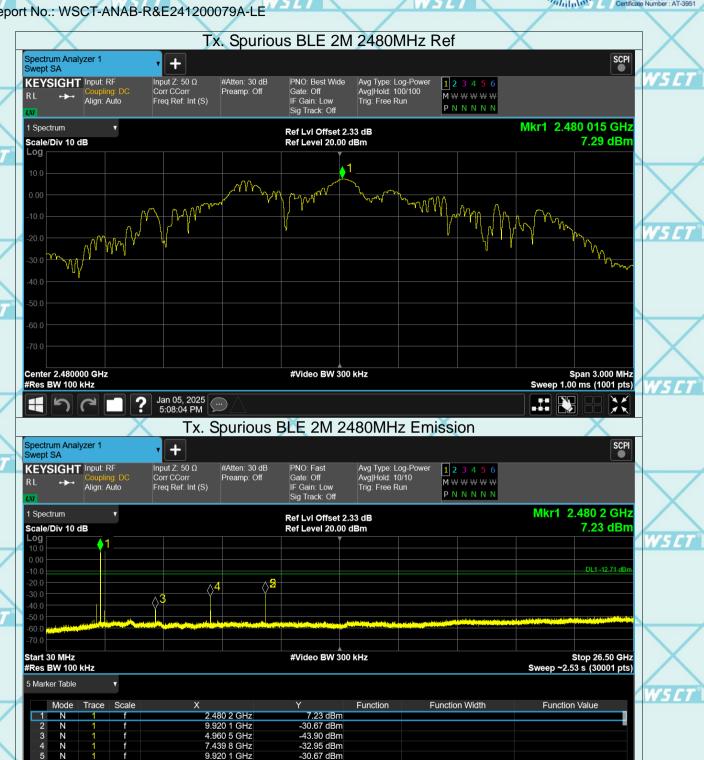
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6.7. Radiated Spurious Emission Measurement

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6.7.1. Te	st Specification	on Val

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6.	7.1. Test Specification				/ 444		-/	466
X	Test Requirement:	FCC Part15	C Section	15.209				
W5ET"	Test Method:	ANSI C63.10):2014	WSCI	7	WS	17	
	Frequency Range:	9 kHz to 25 (GHz /			/		
	Measurement Distance:	3 m	X	,				X
	Antenna Polarization: W5 🗀	Horizontal &	Vertical		W5	GT.		W5 CT
	Operation mode:	Refer to item	4.1					
		Frequency 9kHz- 150kHz	Detector Quasi-peak	RBW 200Hz	VBW 1kHz	Remar Quasi-peak		
W5CT"	Receiver Setup:	150kHz- 30MHz	Quasi-peal	Z 1 A A = H = H	30kHz	Quasi-peak		
		30MHz-1GHz	Quasi-peak Peak	100KHz	300KHz 3MHz	Quasi-peak Peak Va		\times
	WSET WSET	Above 1GHz	Peak	1MHz	10Hz	Average \		W5CT°
X		Frequen	-	Field Str	/meter)	Measuren Distance (m		
W5CT°	WSET	0.009-0.4		2400/F(24000/F	1997 May	300	<i>[7]</i>	
		1.705-3 30-88	0	30 100		30		
		88-216		150		3		
	Limit: WS C1	216-96 Above 9		200 500		3		W5CT°
		710000		000				
WSET	WSET	Frequency		d Strength ovolts/meter)	Measure Distan (mete	ce Dete	ector	
	\vee	Above 1GHz		500 5000	3		rage eak	\vee
	WSCT WSCI	For radiated	emissions	s below 30	OMHz			WSET
		Di:	stance = 3m			Computer	7	
W5 CT	Test setup:	<u> </u>			Pre	-Amplifier	7	
	rest setup:	EUT	Turn table					

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Ground Plane

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30MHz to 1GHz

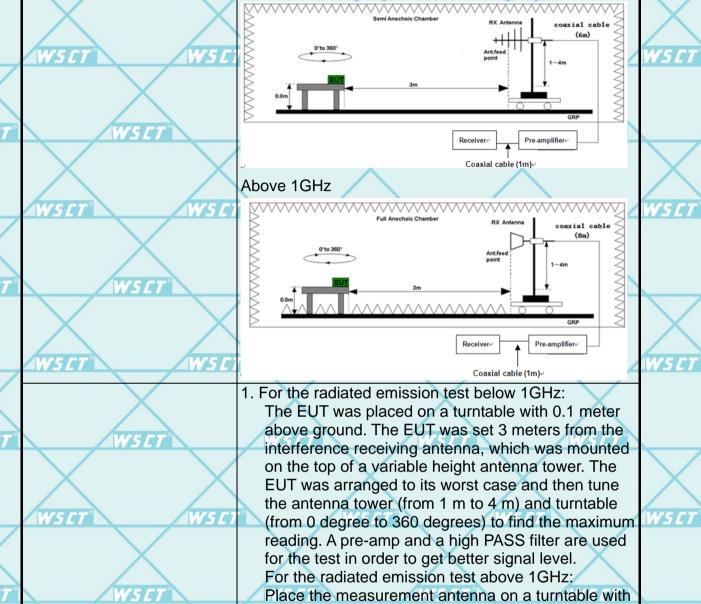
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Test Procedure:

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1.5 meter above ground, which is away from each area of the EUT determined to be a source of emissions at the specified measurement distance. while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 mys above the ground or reference ground plane.



Report No.: WSCT-ANAB-R&E241200079A-LE 2. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level 3. For measurement below 1GHz. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported. 4. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=100 kHz for f < 1 GHz; VBW ≥RBW;</p> Sweep = auto: Detector function = peak; Trace = max hold: (3) Set RBW = 1 MHz, VBW= 3MHz for f ☐ 1 GHz for peak measurement. For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Test mode: Refer to section 4.1 for details Test results: PASS Note: Freq. = Emission frequency in MHz Reading level (dBµV) = Receiver reading WSE Corr. Factor (dB) = Attenuation factor + Cable loss Level (dB_UV) = Reading level (dB_UV) + Corr. Factor (dB) Limit (dBµV) = Limit stated in standard Margin (dB) = Level (dB μ V) – Limits (dB μ V)

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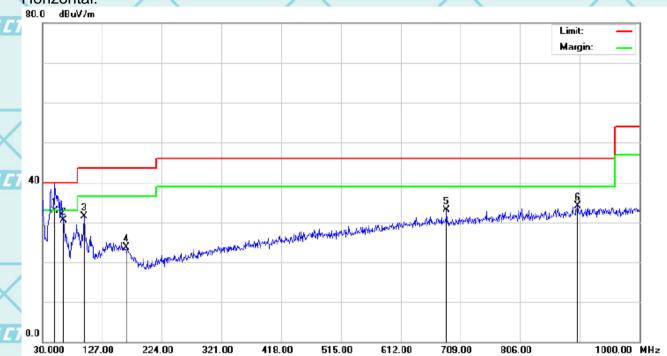
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6.7.2. Test Data(Worst case)

Please refer to following diagram for individual

Below 1GHz

The worst mode is BLE Low Channel Horizontal:



/	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
75			MHz	dBu∀	dΒ	dBuV/m	dBuV/m	dΒ	Detector	_
	1	*	50.3700	35.05	-2.14	32.91	40.00	-7.09	QP	X
	2		63.9500	34.19	-3.75	30.44	40.00	-9.56	QP	
	3		97.9000	37.15	-5.68	31.47	43.50	-12.03	QP	L
	4	1	65.8000	25.90	-2.21	23.69	43.50	-19.81	QP	_
	5	6	86.6900	27.88	5.16	33.04	46.00	-12.96	QP	
5	6	5	300.0900	26.60	7.60	34.20	46.00	-11.80	QP	
										_

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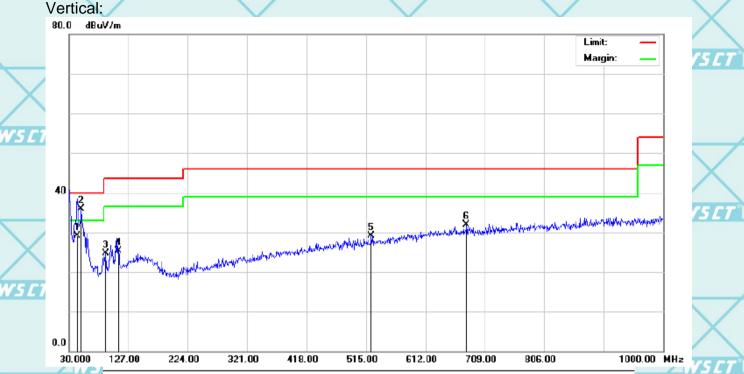






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	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBu∀	dΒ	dBuV/m	dBuV/m	dΒ	Detector
	1		43.5800	30.97	-1.88	29.09	40.00	-10.91	QP
>	2	*	50.3700	37.96	-2.14	35.82	40.00	-4.18	QP
	3		90.1400	31.05	-6.29	24.76	43.50	-18.74	QP
5	4		110.5100	29.98	-4.71	25.27	43.50	-18.23	QP
	5	;	523.7300	27.12	2.08	29.20	46.00	-16.80	QP
	6		378.9300	26.78	5.06	31.84	46.00	-14.16	QP

Note1:

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 (dBµV) = Limit stated in standard

Margin (dB) = Measurement (dB μ V) – Limits (dB μ V)

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Above 1GHz

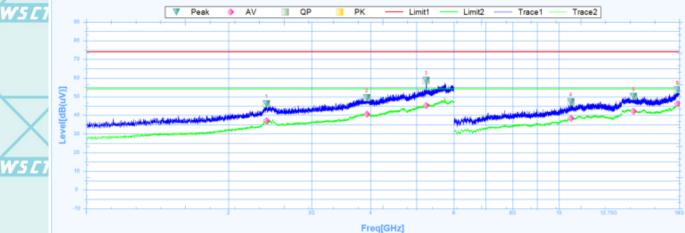
Note 1: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental

signal/5_CT W5_CT W5_CT W5_CT

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

Low channel: 2402MHz

Horizontal:



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W5 C

	Suspu	ited Data Lis	st								
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	2407.5000	46.22	27.29	18.93	74	-27.78	201.7	Horizontal	PK	Pass
7	1	2407.5000	37.02	27.29	9.73	54	-16.98	201.7	Horizontal	AV	Pass
	2	3925.0000	49.51	29.52	19.99	74	-24.49	-0.1	Horizontal	PK	Pass
	2	3925.0000	40.55	29.52	11.03	54	-13.45	-0.1	Horizontal	AV	Pass
	3	5245.0000	58.8	31.8	27	74	-15.2	216	Horizontal	PK	Pass
	3	5245.0000	45.25	31.8	13.45	54	-8.75	216	Horizontal	AV	Pass
,	4	10606.5000	47.15	14.34	32.81	74	-26.85	35.1	Horizontal	PK	Pass
	4	10606.5000	38.35	14.34	24.01	54	-15.65	35.1	Horizontal	AV	Pass
	5	14398.5000	50.02	18.72	31.3	74	-23.98	360	Horizontal	PK	Pass
	5	14398.5000	42.21	18.72	23.49	54	-11.79	360	Horizontal	AV	Pass
	6	17860.5000	53.53	23.01	30.52	74	-20.47	332.8	Horizontal	PK	Pass
	6	17860.5000	46.1	23.01	23.09	54	-7.9	332.8	Horizontal	AV	Pass

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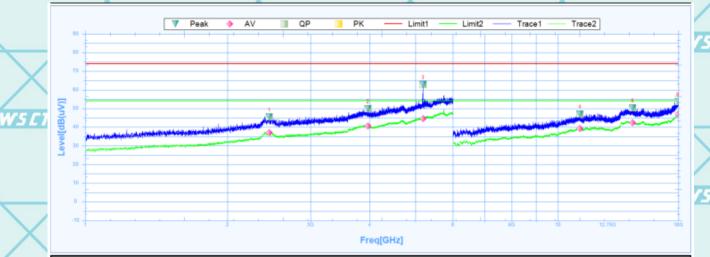


Report No.: WSCT-ANAB-R&E241200079A-LE

W5CT

W5ET

Vertical:



W5CT°

W5 C

W5 E

z.	Suspu	ited Data Lis	it								
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	2451.2500	45.52	27.43	18.09	74	-28.48	144.4	Vertical	PK	Pass
	1	2451.2500	37.01	27.43	9.58	54	-16.99	144.4	Vertical	AV	Pass
	2	3966.2500	49.8	29.62	20.18	74	-24.2	235.3	Vertical	PK	Pass
/	2	3966.2500	40.59	29.62	10.97	54	-13.41	235.3	Vertical	AV	Pass
	3	5189.3750	62.89	31.75	31.14	74	-11.11	70.2	Vertical	PK	Pass
	3	5189.3750	44.63	31.75	12.88	54	-9.37	70.2	Vertical	AV	Pass
7	4	11146.5000	47.11	15.81	31.3	74	-26.89	290.9	Vertical	PK	Pass
Ī	4	11146.5000	39.24	15.81	23.43	54	-14.76	290.9	Vertical	AV	Pass
	5	14407.5000	50.29	18.71	31.58	74	-23.71	251.5	Vertical	PK	Pass
	5	14407.5000	42.42	18.71	23.71	54	-11.58	251.5	Vertical	AV	Pass
	6	17973.0000	53.55	23.74	29.81	74	-20.45	49.4	Vertical	PK	Pass
	6	17973.0000	47.03	23.74	23.29	54	-6.97	49.4	Vertical	AV	Pass

W5 CI W5 E7 W5 C W5 C1

W5 CT

W5C1 WS ET WS CT W5 E1

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W5CT

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W5C1







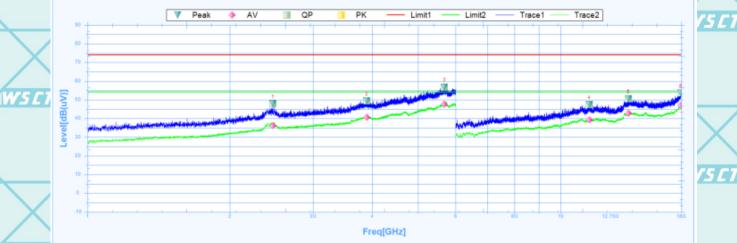
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Report No.: WSCT-ANAB-R&E241200079A-LE

Middle channel: 2440MHz

W5ET

Horizontal:



W5CT°

W5 CT

W5 C

W5 E

U	Suspu	ted Data Lis	st								
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	2464.3750	47.84	27.48	20.36	74	-26.16	356.2	Horizontal	PK	Pass
	1	2464.3750	36.19	27.48	8.71	54	-17.81	356.2	Horizontal	AV	Pass
	2	3894.3750	49.44	29.45	19.99	74	-24.56	81	Horizontal	PK	Pass
	2	3894.3750	40.56	29.45	11.11	54	-13.44	81	Horizontal	AV	Pass
	3	5683.1250	56.7	32.29	24.41	74	-17.3	174.2	Horizontal	PK	Pass
Ţ	3	5683.1250	47.69	32.29	15.4	54	-6.31	174.2	Horizontal	AV	Pass
_	4	11503.5000	47.41	16.14	31.27	74	-26.59	38.7	Horizontal	PK	Pass
	4	11503.5000	39.36	16.14	23.22	54	-14.64	38.7	Horizontal	AV	Pass
	5	13911.0000	50.58	18.86	31.72	74	-23.42	55.4	Horizontal	PK	Pass
	5	13911.0000	42.77	18.86	23.91	54	-11.23	55.4	Horizontal	AV	Pass
	6	17968.5000	53.72	23.71	30.01	74	-20.28	360	Horizontal	PK	Pass
1	6	17968.5000	47.06	23.71	23.35	54	-6.94	360	Horizontal	AV	Pass

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W5 CT

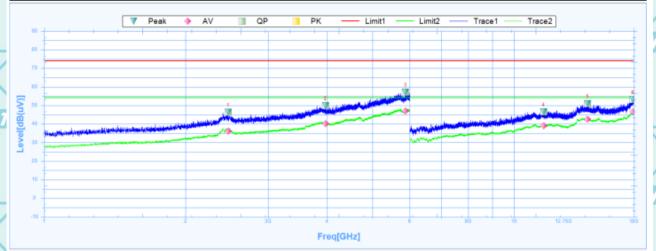




Report No.: WSCT-ANAB-R&E241200079A-LE

W5CT

Vertical:



W5CT

W5 [

W5 E

	Suspu	ited Data Lis	st								
7	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	2463.7500	46.39	27.48	18.91	74	-27.61	191	Vertical	PK	Pass
	1	2463.7500	36.12	27.48	8.64	54	-17.88	191	Vertical	AV	Pass
	2	3969.3750	49.84	29.63	20.21	74	-24.16	359.2	Vertical	PK	Pass
	2	3969.3750	40.11	29.63	10.48	54	-13.89	359.2	Vertical	AV	Pass
	3	5880.6250	57.12	32.61	24.51	74	-16.88	0	Vertical	PK	Pass
	3	5880.6250	46.97	32.61	14.36	54	-7.03	0	Vertical	AV	Pass
Ţ	4	11562.0000	46.58	16.2	30.38	74	-27.42	310.2	Vertical	PK	Pass
	4	11562.0000	39.08	16.2	22.88	54	-14.92	310.2	Vertical	AV	Pass
	5	14346.0000	51.03	18.77	32.26	74	-22.97	73.4	Vertical	PK	Pass
	5	14346.0000	42.67	18.77	23.9	54	-11.33	73.4	Vertical	AV	Pass
	6	17913.0000	53.24	23.34	29.9	74	-20.76	293.4	Vertical	PK	Pass
	6	17913.0000	46.5	23.34	23.16	54	-7.5	293.4	Vertical	AV	Pass

W5 CI W5 E7 W5 C W5 C1 W5 CT

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W5CT



W5ET





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Report No.: WSCT-ANAB-R&E241200079A-LE

-R&E241200079A-LE W5 [T] W5 [T]

High channel: 2480MHz Horizontal:



W5 C

W5 E

L	Suspu	ited Data Lis	st								
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	2483.1250	46.51	27.54	18.97	74	-27.49	195.7	Horizontal	PK	Pass
	1	2483.1250	37.27	27.54	9.73	54	-16.73	195.7	Horizontal	AV	Pass
/	2	3836.2500	49.56	29.31	20.25	74	-24.44	202.9	Horizontal	PK	Pass
	2	3836.2500	40.04	29.31	10.73	54	-13.96	202.9	Horizontal	AV	Pass
	3	5248.1250	61.49	31.8	29.69	74	-12.51	35.5	Horizontal	PK	Pass
J	3	5248.1250	45.33	31.8	13.53	54	-8.67	35.5	Horizontal	AV	Pass
	4	12010.5000	47.18	16.81	30.37	74	-26.82	153.5	Horizontal	PK	Pass
	4	12010.5000	39.3	16.81	22.49	54	-14.7	153.5	Horizontal	AV	Pass
	5	14305.5000	50.58	18.81	31.77	74	-23.42	157.1	Horizontal	PK	Pass
	5	14305.5000	42.74	18.81	23.93	54	-11.26	157.1	Horizontal	AV	Pass
	6	17970.0000	53.62	23.72	29.9	74	-20.38	118.9	Horizontal	PK	Pass
/	6	17970.0000	46.93	23.72	23.21	54	-7.07	118.9	Horizontal	AV	Pass

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W5CT

Vertical:



WS ET

Suspi	uted Data Lis	st								
NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2448.7500	45.73	27.43	18.3	74	-28.27	226.5	Vertical	PK	Pass
1	2448.7500	37.33	27.43	9.9	54	-16.67	226.5	Vertical	AV	Pass
2	3945.0000	49.82	29.57	20.25	74	-24.18	77	Vertical	PK	Pass
2	3945.0000	40.43	29.57	10.86	54	-13.57	77	Vertical	AV	Pass
3	5947.5000	57.64	32.72	24.92	74	-16.36	274.2	Vertical	PK	Pass
3	5947.5000	47.39	32.72	14.67	54	-6.61	274.2	Vertical	AV	Pass
4	12270.0000	45.88	16.48	29.4	74	-28.12	359.1	Vertical	PK	Pass
4	12270.0000	37.57	16.48	21.09	54	-16.43	359.1	Vertical	AV	Pass
5	14332.5000	49.36	18.79	30.57	74	-24.64	15.2	Vertical	PK	Pass
5	14332.5000	41.5	18.79	22.71	54	-12.5	15.2	Vertical	AV	Pass
6	17736.0000	51.56	22.21	29.35	74	-22.44	278.2	Vertical	PK	Pass
6	17736.0000	44.84	22.21	22.63	54	-9.16	278.2	Vertical	AV	Pass

Note:

- 1. All emissions not reported were more than 20dB below the specified limit or in the noise floor.
- 2. Emission Level= Reading Level+Probe Factor +Cable Loss.
- 3. Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

	W5ET	WS CT	WSET	WSET	WS ET
X	X	X			\times
WSET	WSET	WSET	WSCT	W	SET
	\times	\times	\times	\times	\times
	W5CT°	WSET	WSET	WSLT	meations testino
		$\overline{}$			S. C.
					WSCT She

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WSET

W5 E

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Report No.: WSCT-ANAB-R&E241200079A-LE

WS CI

6.7.3. Restricted Bands Requirements

Test result for GESK Mode (the worst case)

	rest result it	JI GESK IVIC	de (me v	voisi case	A		_	(0)
	Frequency	Reading	Correct Factor	Emission Level	Limit	Margin	Polar	Detector
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Į		Anna		Low Chan	nel	Augus	7	(11)
4	2390	68.70	-8.76	59.94	74	-14.06	¥	PK
	2390	50.27	-8.76	41.51	54	-12.49	Н	AV
L	2390	67.22	-8.73	58.49	74	-15.51	V	PK
	2390	46.95	-8.73	38.22	54	-15.78	>	AV
				High Char	nnel			
	2483.5	68.56	-8.76	59.80	74	-14.20	Н	PK
Y	2483.5	47.04	-8.76	38.28	54	+15.72	Ι	AVWS
	2483.5	66.03	-8.17	57.86	74	-16.14	V	PK
	2483.5	47.88	-8.17	39.71	54	-14.29	V	AV
ī	Note: Fred - En	sission fraguena	ovin MHz					

Note: Freq. = Emission frequency in MHz

Reading level (dB μ V) = Receiver reading Corr. Factor (dB) = Attenuation factor + Cable loss

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

Limit (dBµV) = Limit stated in standard Margin (dB) = Level (dBμV) - Limits (dBμV)

WSCI WSEI

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

W5C1 W5 E1 WSE W5 E1 WS C

W5 C1 NSCI WS CI W5 C1

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