



TEST REPORT

Applicant Name : Address :

Report Number : FCC ID: ORAIMO TECHNOLOGY LIMITED FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG SZNS220831-39476E-RF-00B 2AXYP-OPN-50D-L

Test Standard (s)

FCC PART 15.247

Sample Description

Product Type: Model No.: Multiple Model(s) No.: Trade Mark: Date Received: Report Date: Open-ear True Wireless Earphones OPN-50D N/A oraimo 2022/08/31 2022/10/18

Test Result:	Pass*
* In the configuration tested the	FUT complied with the standards shows

* In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Approved By:

Roger, Ling

Roger Ling EMC Engineer

Candy . Li

Candy Li EMC Engineer

Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "* ".

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Frequency Range	BLE: 2402-2480MHz
Maximum Conducted Peak Output Power	BLE: -6.67dBm
Modulation Technique	BLE: GFSK
Antenna Specification*	-0.8dBi (provided by the applicant)
Voltage Range	DC 3.7V from battery
Sample serial number	SZNS220831-39476E-RF-S1_L for Radiated Emissions Test SZNS220831-39476E-RF-S2_L for RF Conducted Test (Assigned by ATC)
Sample/EUT Status	Good condition

Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission's rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.209 and 15.247 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

And KDB 558074 D01 15.247 Meas Guidance v05r02.

All emissions measurement was performed at Shenzhen Accurate Technology Co., Ltd. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement Uncertainty

Parameter		Uncertainty	
Occupied Char	nnel Bandwidth	5%	
RF Fre	equency	$0.082*10^{-7}$	
RF output pov	wer, conducted	0.73dB	
Unwanted Emis	ssion, conducted	1.6dB	
AC Power Lines C	onducted Emissions	2.72dB	
	9kHz - 30MHz	2.66dB	
	30MHz - 1GHz	4.28dB	
Emissions, Radiated	1GHz - 18GHz	4.98dB	
Radiated	18GHz - 26.5GHz	5.06dB	
	26.5GHz - 40GHz	4.72dB	
Temperature		1 °C	
Hun	nidity	6%	
Supply voltages		0.4%	

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 708358, the FCC Designation No.: CN1189. Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 429 7.01.

Listed by Innovation, Science and Economic Development Canada (ISEDC), the Registration Number is 5077A.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

For BLE mode, 40 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2442
1	2404	21	2444
2	2406	22	2446
3	2408	23	2448
4	2410	24	2450
5	2412	25	2452
6	2414	26	2454
7	2416	27	2456
8	2418	28	2458
9	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

EUT was tested with Channel 0, 19 and 39.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

"BQB.exe" software was used to test, the software and power level was provided by manufacturer and power level as below:

Mode	Data rate	Power Level*				
Moue	Data rate	e Low Channel Middle Channel High C				
BLE	1Mbps	Default Default Default				

Duty cycle

Test Result: Compliant. Please refer to the Appendix

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
/	/	/	/

External I/O Cable

Cable Description	Length (m)	From Port	То
/	/	/	/

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Block Diagram of Test Setup

For Radiated Emissions:

	EUT	▲ 1.0 Meter
Non-Conductive Table 80/150 cm above Ground Plane	1.5 Meters	

SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247 (i), §1.1307 (b) (3) & §2.1093	RF Exposure	Compliant
§15.203	Antenna Requirement	Compliant
§15.207 (a)	AC Line Conducted Emissions	Not Applicable
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliant
§15.247 (a)(2)	6 dB Emission Bandwidth & Occupied Bandwidth	Compliant
§15.247(b)(3)	Maximum Conducted Output Power	Compliant
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliant
§15.247(e)	Power Spectral Density	Compliant

Not Applicable: the Bluetooth function cannot used when in charging.

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TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date		
Radiated Emissions Test							
Rohde& Schwarz	Test Receiver	ESR	102725	2021/12/13	2022/12/12		
Rohde&Schwarz	Spectrum Analyzer	FSV40	101949	2021/12/13	2022/12/12		
SONOMA INSTRUMENT	Amplifier	310 N	186131	2021/11/09	2022/11/08		
A.H. Systems, inc.	Preamplifier	PAM-0118P	135	2021/11/09	2022/11/08		
Quinstar	Amplifier	QLW- 18405536-J0	15964001002	2021/11/11	2022/11/10		
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2021/07/06	2024/07/05		
Schwarzbeck	Horn Antenna	BBHA9120D	9120D-1067	2020/01/05	2023/01/04		
Schwarzbeck	HORN ANTENNA	BBHA9170	9170-359	2020/01/05	2023/01/04		
Radiated Emission T	est Software: e3 19821b	(V9)					
Unknown	RF Coaxial Cable	No.10	N050	2021/12/14	2022/12/13		
Unknown	RF Coaxial Cable	No.11	N1000	2021/12/14	2022/12/13		
Unknown	RF Coaxial Cable	No.12	N040	2021/12/14	2022/12/13		
Unknown	RF Coaxial Cable	No.13	N300	2021/12/14	2022/12/13		
Unknown	RF Coaxial Cable	No.14	N800	2021/12/14	2022/12/13		
Unknown	RF Coaxial Cable	No.15	N600	2021/12/14	2022/12/13		
Unknown	RF Coaxial Cable	No.16	N650	2021/12/14	2022/12/13		
Wainwright	High Pass Filter	WHKX3.6/18 G-10SS	5	2021/12/14	2022/12/13		
RF conducted test							
Rohde&Schwarz	Spectrum Analyzer	FSV-40	101590	2022/01/19	2023/01/18		
Tonscend	RF Control Unit	JS0806-2	19G8060182	2021/10/26	2022/10/25		
WEINSCHEL	10dB Attenuator	5324	AU 3842	2021/12/14	2022/12/13		
Unknown	RF Coaxial Cable	No.31	RF-01	Each	time		

* **Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

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FCC§15.247 (i), §1.1307 (b) (3) &§2.1093 – RF EXPOSURE

Applicable Standard

According to FCC §2.1093 and §1.1307(b) (3), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D04 Interim General RF Exposure Guidance

1-mW Test Exemption:

Per § 1.1307(b)(3)(i)(A), a single RF source is exempt RF device (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions. This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.

For worst case:

Frequency	Maximum pov	-	Exemption Limit	SAR Test	
(MHz)	(dBm)	(mW)	(mW)	Exclusion	
2402-2480	-6.0	0.25	1	Yes	

Result: Compliant.

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to § 15.203, 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 shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

a. Antenna must be permanently attached to the unit.

b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT has one integral antenna which was permanently attached, and the maximum antenna gain is -0.8dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliance.

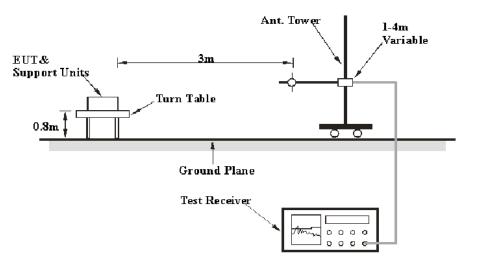
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

Applicable Standard

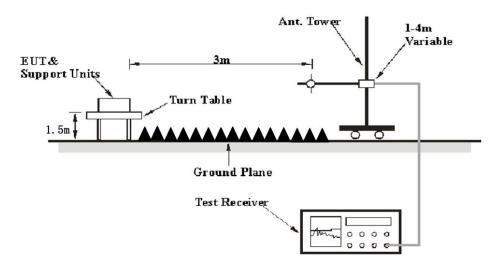
FCC §15.247 (d); §15.209; §15.205;

EUT Setup

Below 1 GHz:



Above 1GHz:



The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

EMI Test Receiver & Spectrum Analyzer Setup

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW Video B/W		IF B/W	Measurement
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1MHz	3 MHz	/	РК
	1MHz	10 Hz ^{Note 1}	/	Average
	1MHz	$> 1/T^{Note 2}$	/	Average

Note 1: when duty cycle is no less than 98% Note 2: when duty cycle is less than 98%

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1 GHz, peak and Average detection modes for frequencies above 1 GHz.

Factor & Margin Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

Factor = Antenna Factor + Cable Loss - Amplifier Gain

The "**Over Limit/Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

Over Limit/Margin = Level / Corrected Amplitude – Limit Level / Corrected Amplitude = Read Level + Factor

Test Data

Environmental Conditions

Temperature:	25~25.6°C	
Relative Humidity:	50~59%	
ATM Pressure:	101.0 kPa	

The testing was performed by Level Li on 2022-10-11 for below 1GHz, Jeff Jiang on 2022-09-27 for above 1GHz

EUT operation mode: Transmitting(Pre-scan in the X,Y and Z axes of orientation, the worst case X-axes of orientation was recorded)

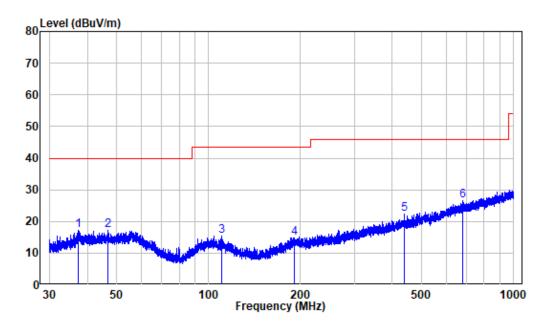
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30MHz-1GHz: (Worst case is low channel)

Note: When the test result of peak was less than the limit of QP more than 6dB, just peak value were recorded.

Horizontal:

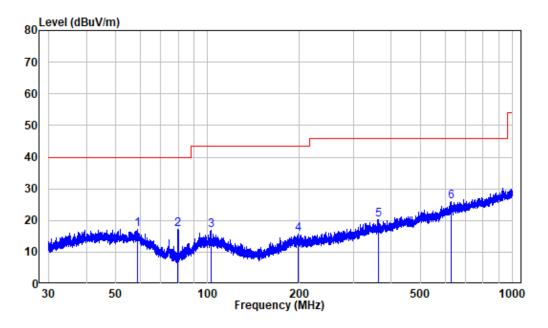


Site :	chamber
Condition:	3m HORIZONTAL
Job No. :	SZNS220831-39476E-RF
Test Mode:	BLE Transmitting
Note :	L

	Freq	Factor			Limit Line		Remark
-	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	37.351	-10.95	28.13	17.18	40.00	-22.82	Peak
	46.728	-10.00	27.29	17.29	40.00	-22.71	Peak
3	110.085	-11.97	27.34	15.37	43.50	-28.13	Peak
4	190.572	-11.48	26.36	14.88	43.50	-28.62	Peak
5	438.463	-5.66	27.85	22.19	46.00	-23.81	Peak
6	680.258	-1.50	28.14	26.64	46.00	-19.36	Peak

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Site : chamber Condition: 3m VERTICAL Job No. : SZNS220831-39476E-RF Test Mode: BLE Transmitting Note : L

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	58.844	-10.21	27.35	17.14	40.00	-22.86	Peak
2	79.975	-16.79	34.09	17.30	40.00	-22.70	Peak
3	102.539	-11.61	28.67	17.06	43.50	-26.44	Peak
4	197.893	-11.54	27.19	15.65	43.50	-27.85	Peak
5	363.462	-7.58	27.86	20.28	46.00	-25.72	Peak
6	629.201	-2.12	28.12	26.00	46.00	-20.00	Peak

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1-25 GHz:

-25 GHz:	BLE 1M								
Frequency		ceiver	Turntable			Factor	Absolute	Limit	Margin
(MHz)	Reading (dBµV)	PK/Ave	Angle Degree	Height (m)	Ieight (m)Polar (H/V)Pactor (dB/n	(dB/m)	Level (dBµV/m)	(dBµV/m)	(dB)
Low Channel(2402MHz)									
2310	67.83	РК	75	2.3	Н	-7.24	60.59	74	-13.41
2310	53.99	AV	75	2.3	Н	-7.24	46.75	54	-7.25
2310	68.10	РК	77	2.3	V	-7.24	60.86	74	-13.14
2310	54.01	AV	77	2.3	V	-7.24	46.77	54	-7.23
2390	69.52	РК	302	1.2	Н	-7.22	62.30	74	-11.70
2390	55.69	AV	302	1.2	Н	-7.22	48.47	54	-5.53
2390	70.08	РК	184	1	V	-7.22	62.86	74	-11.14
2390	55.73	AV	184	1	V	-7.22	48.51	54	-5.49
4804	54.63	PK	48	1.9	Н	-3.51	51.12	74	-22.88
4804	54.15	PK	206	1.9	V	-3.51	50.64	74	-23.36
			Middle (Channel	(2440M	Hz)			
4880	54.68	РК	227	2.5	Н	-3.38	51.30	74	-22.70
4880	54.29	РК	256	2.5	V	-3.38	50.91	74	-23.09
			High Cl	hannel(2	480 MF	łz)			
2483.5	69.26	РК	192	1.9	Н	-7.20	62.06	74	-11.94
2483.5	56.35	AV	192	1.9	Н	-7.20	49.15	54	-4.85
2483.5	68.64	РК	337	2.4	V	-7.20	61.44	74	-12.56
2483.5	56.54	AV	337	2.4	V	-7.20	49.34	54	-4.66
2500	68.99	РК	271	1.1	Н	-7.18	61.81	74	-12.19
2500	55.97	AV	271	1.1	Н	-7.18	48.79	54	-5.21
2500	68.43	РК	101	1.6	V	-7.18	61.25	74	-12.75
2500	55.94	AV	101	1.6	V	-7.18	48.76	54	-5.24
4960	54.78	РК	186	1.7	Н	-3.01	51.77	74	-22.23
4960	54.13	РК	292	1.7	V	-3.01	51.12	74	-22.88

Note:

Corrected Factor = Antenna factor (RX) + Cable Loss - Amplifier Factor

Absolute Level = Corrected Factor + Reading

Margin = Absolute Level - Limit

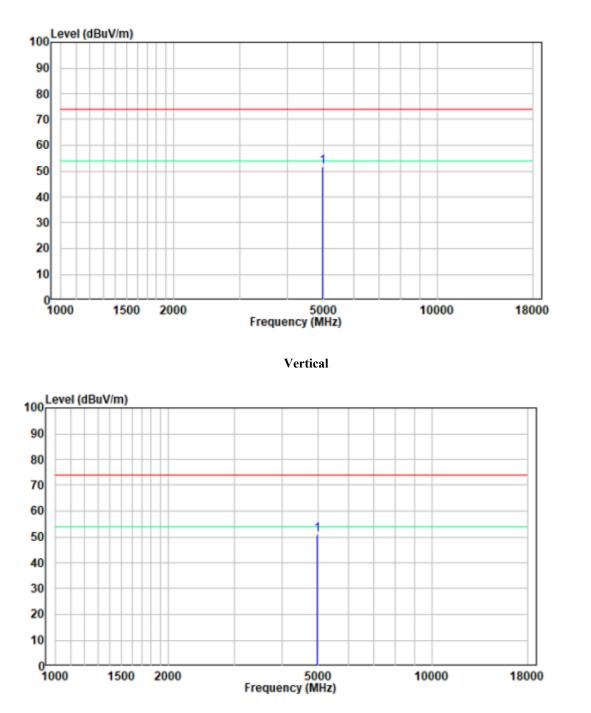
The other spurious emission which is in the noise floor level was not recorded.

When the test result of Peak was below the limit of average, just the Peak value was recorded.

1-18 GHz:

Pre-scan for BLE 1M, High Channel

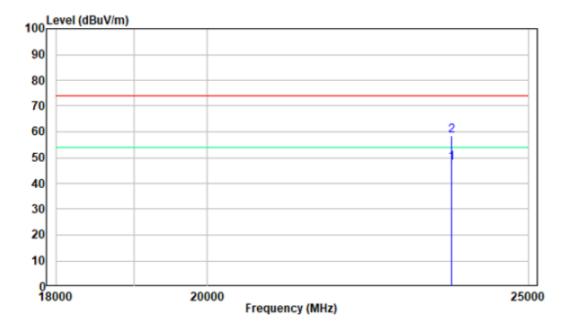
Horizontal



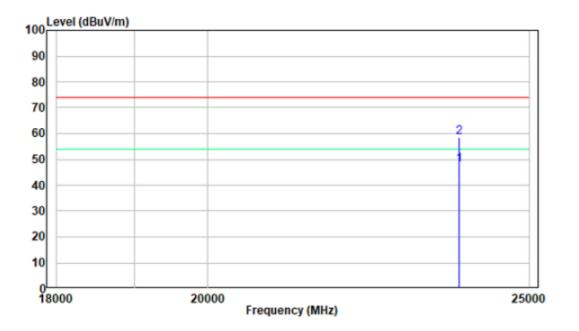
18 -25GHz:

Pre-scan for BLE 1M, High Channel

Horizontal







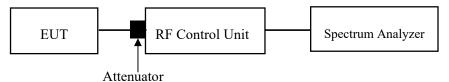
FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH & OCCUPIED BANDWIDTH

Applicable Standard

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- 3. Measure the frequency difference of two frequencies that were attenuated 6 dB from the reference level. Record the frequency difference as the emission bandwidth.
- 4. Repeat above procedures until all frequencies measured were complete.



Test Data

Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	65 %
ATM Pressure:	101.0 kPa

The testing was performed by Roger Ling on 2022-09-27.

EUT operation mode: Transmitting

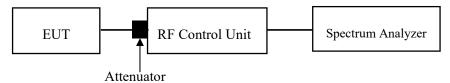
FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER

Applicable Standard

According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

Test Procedure

- 1. Place the EUT on a bench and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
- 3. Add a correction factor to the display.



Test Data

Environmental Conditions

Temperature:	25 °C		
Relative Humidity:	65 %		
ATM Pressure:	101.0 kPa		

The testing was performed by Roger Ling on 2022-09-27.

EUT operation mode: Transmitting

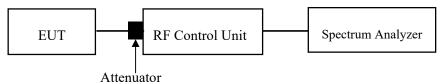
FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE

Applicable Standard

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in \$15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in \$15.205(a), must also comply with the radiated emission limits specified in \$15.209(a) (see \$15.205(c)).

Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- 3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- 5. Repeat above procedures until all measured frequencies were complete.



Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	65 %
ATM Pressure:	101.0 kPa

The testing was performed by Roger Ling on 2022-09-27.

EUT operation mode: Transmitting

FCC §15.247(e) - POWER SPECTRAL DENSITY

Applicable Standard

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

Test Procedure

- 1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
- 2. Set the RBW to: $3kHz \le RBW \le 100 kHz$.
- 3. Set the VBW \geq 3×RBW.
- 4. Set the span to 1.5 times the DTS bandwidth.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level within the RBW.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



Attenuator

Test Data

Environmental Conditions

Temperature:	25 °C		
Relative Humidity:	65 %		
ATM Pressure:	101.0 kPa		

The testing was performed by Roger Ling on 2022-09-27.

EUT operation mode: Transmitting

APPENDIX

Appendix A: DTS Bandwidth Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	Limit[MHz]	Verdict
BLE_1M Ant1		2402	0.66	0.5	PASS
	2440	0.67	0.5	PASS	
		2480	0.68	0.5	PASS

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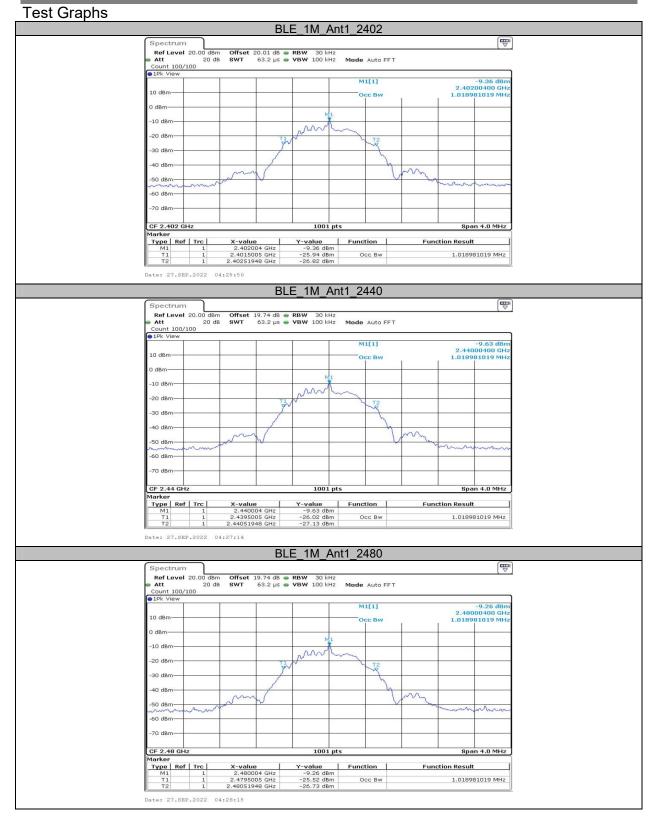


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Appendix B: Occupied Channel Bandwidth Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
		2402	1.019	2401.500	2402.519		
BLE_1M	Ant1	2440	1.019	2439.500	2440.519		
		2480	1.019	2479.500	2480.519		

Report No.: SZNS220831-39476E-RF-00B



Appendix C: Maximum conducted output power Test Result

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
BLE_1M	Ant1	2402	-7.20	≤30	PASS
		2440	-6.95	≤30	PASS
		2480	-6.67	≤30	PASS

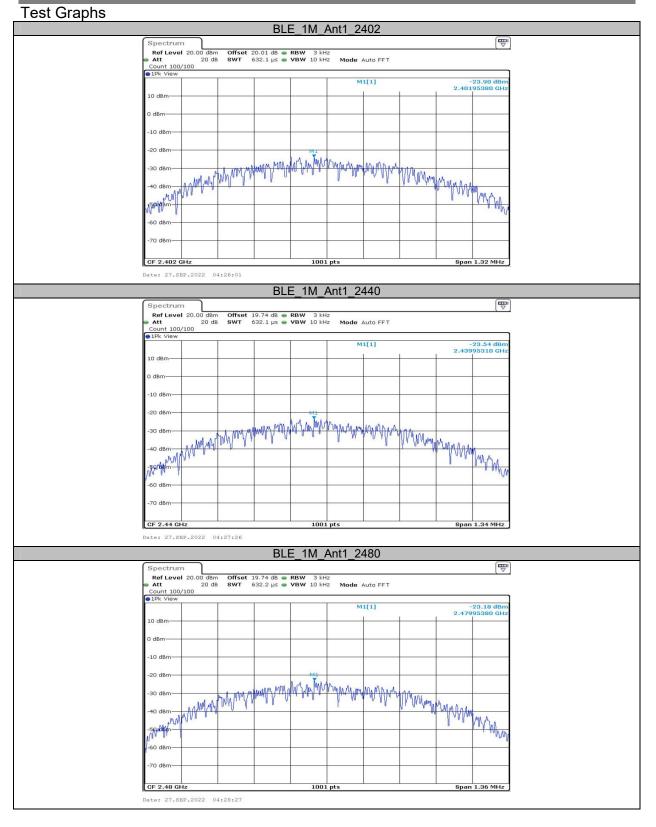
Report No.: SZNS220831-39476E-RF-00B

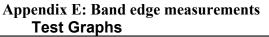
Graphs		BLE_1M_Ant1_2402	
	Spectrum Ref Level 20.00 dBm Offset 20.01 d	dB 🕳 RBW 3 MHz	
	Att 20 dB SWT 1 n _Count 100/100	ns - VBW 10 MHz Mode Auto Sweep	
	1Pk View	M1[1]	-7.20 dBm
	10 dBm		2.40227170 GHz
	0 dBm		
	-10 dBm	M1	
	-20 dBm		
			and the second se
	-30 dBm		
	-40 dBm		
	-50 dBm		
	-60 dBm		
	-70 dBm		
	CF 2.402 GHz	1001 pts	Span 8.0 MHz
	Date: 27.SEP.2022 04:25:56	1001 pts	
		BLE_1M_Ant1_2440	
	Spectrum		
	Ref Level 20.00 dBm Offset 19.74 d Att 20 dB SWT 1 m	dB 👄 RBW 3 MHz ns 👄 VBW 10 MHz 🛛 Mode Auto Sweep	
	Count 100/100 Pk View	1	
	10 40-	M1[1]	-6.95 dBm 2.44027970 GHz
	10 dBm-		
	0 dBm	Mi	
	-10 dBm		
	-20 dBm		and
	-30 dBm		
	-40 dBm		
	-50 dBm-		
	-60 dBm		
	-70 dBm		
	CF 2.44 GHz	1001 pts	Span 8.0 MHz
	Date: 27.SEP.2022 04:27:21		
		BLE_1M_Ant1_2480	
	Ref Level 20.00 dBm Offset 19.74 d	dB 🖷 RBW 3 MHz	
	 Att 20 dB SWT 1 n Count 100/100 1Pk View 	ns 🖷 VBW 10 MHz 🛛 Mode Auto Sweep	
		M1[1]	-6.67 dBm 2.47988810 GHz
	10 dBm		
	0 dBm	MI	
	-10 dBm		
	-29.d8m		
	-30 dBm		
	-40 dBm		
	-50 dBm		
	-60 dBm		
	-70 dBm		
	-70 dBm	1001 pts	Span 8.0 MHz

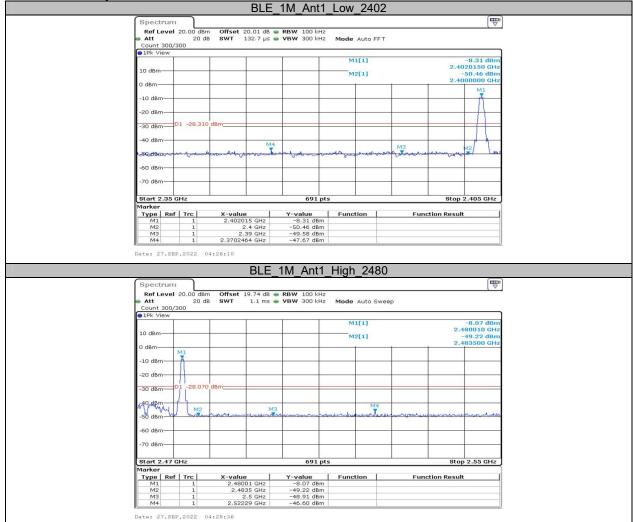
Appendix D: Maximum power spectral density Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-23.90	≤8.00	PASS
		2440	-23.54	≤8.00	PASS
		2480	-23.18	≤8.00	PASS

Report No.: SZNS220831-39476E-RF-00B



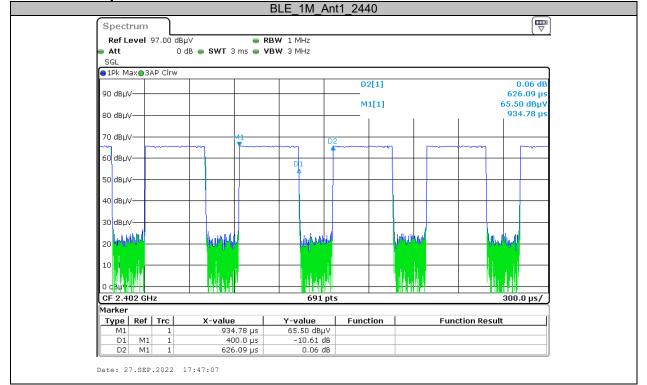




Appendix F: Duty Cycle Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	
BLE_1M	Ant1	2440	0.400	0.626	63.90	

Test Graphs



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