

TEST REPORT

Reference No...... : WTD22D05092786W001
FCC ID : 2AMM6ERS-10TZBVK-AA
Applicant..... : Earda Technologies Co., Ltd
Address..... : Block A,LianFeng Creative Industry Park, 2 JiSheng Road.,
HuangGe Town, NanSha District, Guangzhou, China
Manufacturer : Earda Electron Ltd.
Address..... : Block A,LianFeng Creative Industry Park,No.2 Jisheng Road,
HuangGe Town,Nansha District, Guangzhou, Guangdong, China.
Product..... : Smart Knob
Model(s) : ERS-10TZBVK-AA
Standards..... : FCC 47CFR Part 15.247
Date of Receipt sample : 2022-05-17
Date of Test : 2022-05-17 to 2022-05-31
Date of Issue..... : 2022-06-07
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Prepared By:

Waltek Testing Group Co., Ltd.

Address: No. 77, Houjie Section, Guantai Road, Houjie Town, Dongguan City, Guangdong, China

Tel: +86-769-2267 6998

Fax: +86-769-2267 6828

Compiled by:

Ford Wang

Ford Wang / Project Engineer

Approved by:



Daniel Liu

Daniel Liu / Designated Reviewer

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3 Revision History

Test report No.	Date of Receipt sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTD22D05092786W001	2022-05-17	2022-05-17 to 2022-05-31	2022-06-07	Original	-	Valid

4 General Information

4.1 General Description of E.U.T.

Product: Smart Knob
Model(s): ERS-10TZBVK-AA
Model Description: N/A
ZigBee Version: 3.0
Hardware Version: V2.2
Software Version: V1.0.3

4.2 Details of E.U.T.

Operation Frequency: 2405~2480MHz
Max. RF output power: 7.312dBm
Type of Modulation: OQPSK
Antenna installation: PCB printed antenna
Antenna Gain: 2.5dBi
Ratings: DC 3V from CR2032 Lithium Battery

4.3 Channel List

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
0	2405	1	2410	2	2415	3	2420
4	2425	5	2430	6	2435	7	2440
8	2445	9	2450	10	2455	11	2460
12	2465	13	2470	14	2475	15	2480

4.4 Test Facility

The test facility has a test site registered with the following organizations:

ISED CAB identifier: CN0013. Test Firm Registration No.: 7760A.

Waltek Testing Group Co., Ltd. Has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files.

Registration number 7760A, October 15, 2016.

FCC Designation No.: CN1201. Test Firm Registration No.: 523476.

Waltek Testing Group Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration number 523476, September 10, 2019.

4.5 Subcontracted

Whether parts of tests for the product have been subcontracted to other labs:

Yes No

If Yes, list the related test items and lab information:

Test Lab: N/A

Lab address: N/A

Test items: N/A

4.6 Abnormalities from Standard Conditions

None.

4.7 Test Mode

Tests Carried Out Under FCC part 15.247

Test Items	Mode	Channel	TX/RX
Maximum Peak Output Power	ZigBee	0/7/15	TX
Power Spectral Density	ZigBee	0/7/15	TX
6dB Bandwidth	ZigBee	0/7/15	TX
Band Edge	ZigBee	0/7/15	TX
Transmitter Spurious Emissions	ZigBee	0/7/15	TX

Note: Parameters set by test software during channel & power tests, the software provided by the customer was used to set the operating channels as well as the output power level. The RF output power set is the power expected by the manufacturer and is going to be fixed on the firmware of the final product.

5 Test Summary

Test Items	Test Requirement	Result
Radiated Spurious Emissions	15.247(d) 15.205(a) 15.209(a)	PASS
Conducted Spurious Emissions	15.247(d)	N/A
Conducted Emissions	15.207(a)	PASS
6dB Bandwidth	15.247(a)(2)	PASS
Maximum Peak Output Power	15.247(b)(3),(4)	PASS
Power Spectral Density	15.247(e)	PASS
Band Edge	15.247(d)	PASS
Antenna Requirement	15.203	PASS

6 Equipment Used during Test

6.1 Equipments List

Conducted Emissions Test Site 1#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	EMI Test Receiver	R&S	ESCI	100947	2021-07-26	2022-07-25
2.	LISN	R&S	ENV216	100115	2021-07-26	2022-07-25
3.	Cable	Top	TYPE16(3.5M)	-	2021-07-26	2022-07-25
3m Semi-anechoic Chamber for Radiation Emissions Test site 1#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	Spectrum Analyzer	R&S	FSP30	100091	2022-04-28	2023-04-27
2	Amplifier	Agilent	8447D	2944A10178	2021-07-26	2022-07-25
3	Trilog Broadband Antenna	SCHWARZBECK	VULB9163	336	2021-08-23	2022-08-22
4	Coaxial Cable (below 1GHz)	Top	TYPE16(13M)	-	2022-04-28	2023-04-27
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	667	2022-04-28	2023-04-27
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	2021-07-30	2022-07-29
7	Broadband Preamplifier	COMPLIANCE DIRECTION	PAP-1G18	2004	2022-04-28	2023-04-27
8	Coaxial Cable (above 1GHz)	ZT26-NJ-NJ-8M/FA	1GHz-18GHz	NA	2021-07-26	2022-07-25
3m Semi-anechoic Chamber for Radiation Emissions Test site 2#						
Item	Equipment	Manufacturer	Model No.	Serial No	Last Calibration Date	Calibration Due Date
1	Test Receiver	R&S	ESCI	101296	2022-04-28	2023-04-27
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	2021-10-31	2022-10-30
3	Active Loop Antenna	Com-Power Corp.	AL-130R	10160007	2022-05-02	2023-05-01
4	Amplifier	ANRITSU	MH648A	M43381	2022-04-28	2023-04-27
5	Cable	HUBER+SUHNER	CBL2	525178	2022-04-28	2023-04-27
RF Conducted Testing						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	Spectrum Analyzer	R&S	FSP40	100501	2021-07-26	2022-07-25
2.	EXA Signal Analyzer	Malaysia Keysight	N9010A	MY50520207	2022-04-28	2023-04-27

6.2 Description of Support Units

Equipment	Manufacturer	Model No.	Series No.
/	/	/	/

6.3 Measurement Uncertainty

Parameter	Uncertainty
Conducted Emission	± 3.64 dB(AC mains 150KHz~30MHz)
Radiated Spurious Emissions	± 5.08 dB (Bilog antenna 30M~1000MHz)
	± 5.47 dB (Horn antenna 1000M~25000MHz)
Radio Frequency	± 1 x 10 ⁻⁷ Hz
RF Power	± 0.42 dB
RF Power Density	± 0.7dB
Conducted Spurious Emissions	± 2.76 dB (9kHz~26500MHz)
Confidence interval: 95%. Confidence factor:k=2	

7 Duty Cycle

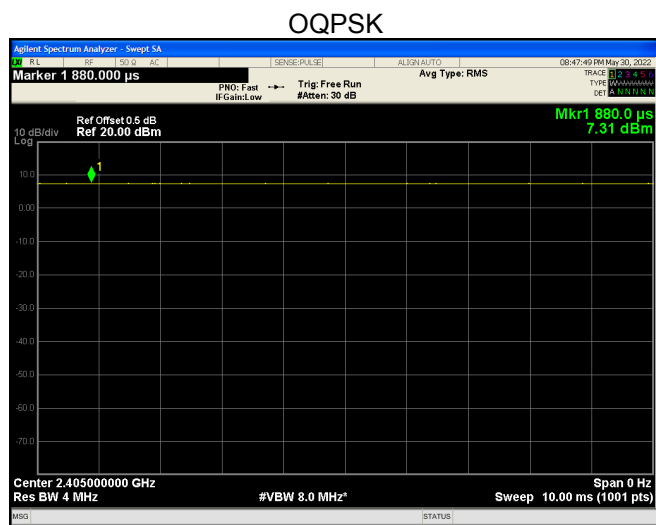
Type of Modulation	On time ms	Period ms	Duty Cycle linear	Duty Cycle %	Duty Cycle Factor(dB)	Average Factor(dB)
OQPSK	10	10	1.00	100.00	0.00	0.00

Remark:

Duty cycle=On Time/period;

Duty cycle factor= $10 \cdot \log(1/\text{Duty cycle})$;

Average factor= $20 \log_{10} \text{Duty cycle}$



8 Radiated Emissions

Test Requirement: FCC 47CFR Part 15 Section 15.209 & 15.247

Test Method: ANSI C63.10:2013

Test Result: PASS

Measurement Distance: 3m

Limit:

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	$2400/F(\text{kHz})$	300	$10000 * 2400/F(\text{kHz})$	$20\log^{(2400/F(\text{kHz}))} + 80$
0.490 ~ 1.705	$24000/F(\text{kHz})$	30	$100 * 24000/F(\text{kHz})$	$20\log^{(24000/F(\text{kHz}))} + 40$
1.705 ~ 30	30	30	$100 * 30$	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

8.1 EUT Operation

Operating Environment:

Temperature: 23.5 °C

Humidity: 52.1 % RH

Atmospheric Pressure: 101.2kPa

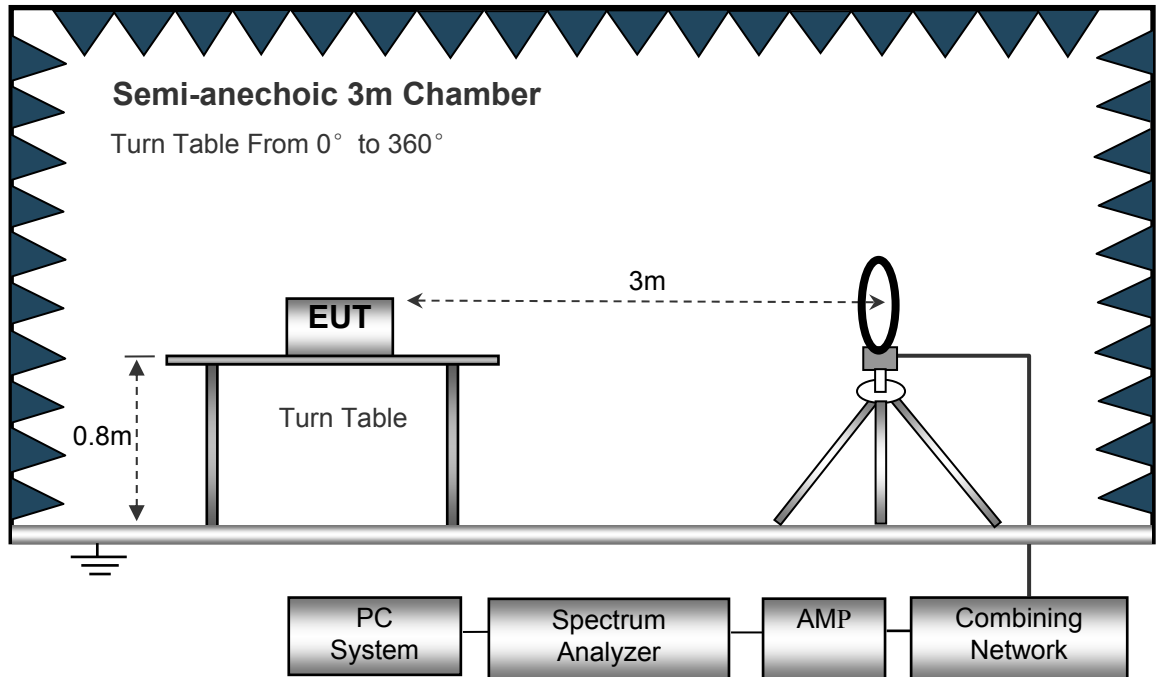
EUT Operation:

The test was performed in TX transmitting mode, the test data were shown in the report.

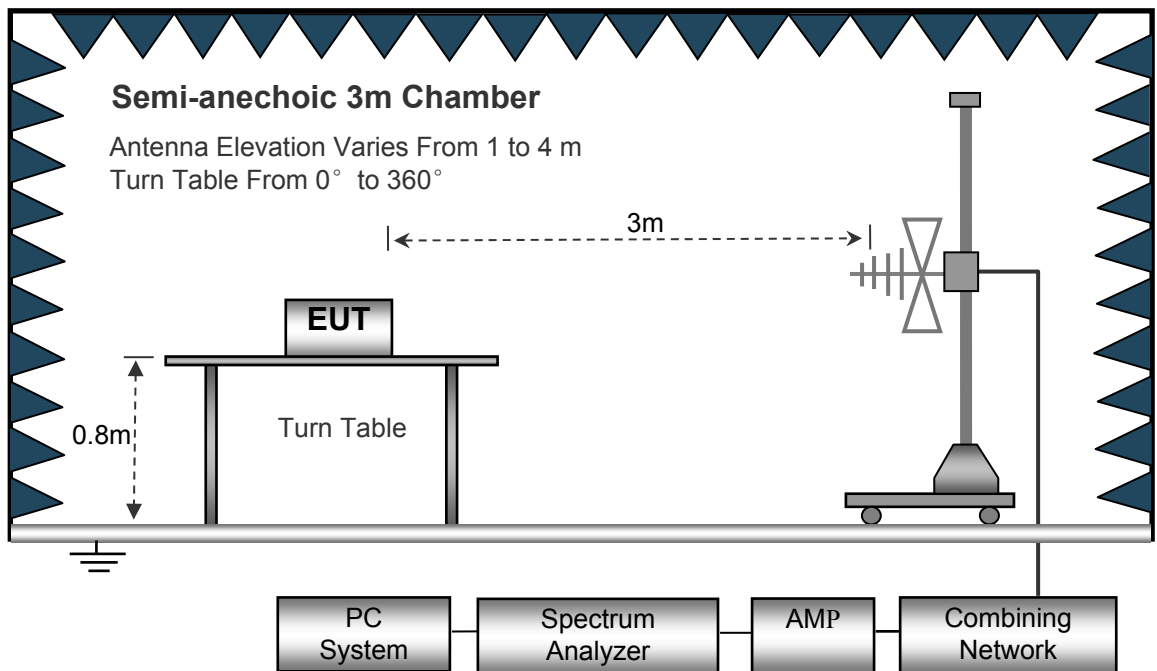
8.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10.

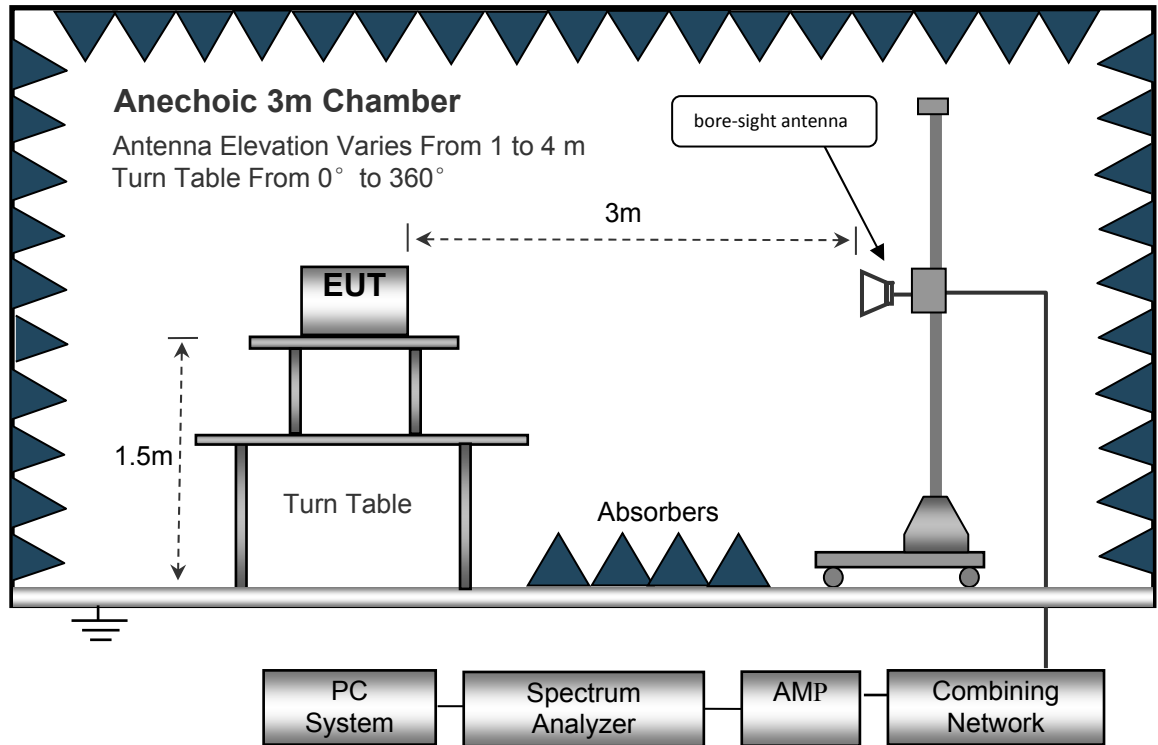
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz.



2.1 Spectrum Analyzer Setup

Below 30MHz

Sweep Speed Auto
 IF Bandwidth..... 10kHz
 Video Bandwidth..... 10kHz
 Resolution Bandwidth..... 10kHz

30MHz ~ 1GHz

Sweep Speed Auto
 Detector PK
 Resolution Bandwidth..... 100kHz
 Video Bandwidth..... 300kHz

Above 1GHz

Sweep Speed Auto
 Detector PK
 Resolution Bandwidth..... 1MHz
 Video Bandwidth..... 3MHz
 Detector Ave.
 Resolution Bandwidth..... 1MHz
 Video Bandwidth..... 10Hz

8.3 Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane for below 1GHz and 1.5m for above 1GHz.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are performed in X,Y and Z axis positioning(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand),the worst condition was tested putting the eut in Z axis,so the worst data were shown as follow.
8. A 2.4GHz high –pass filter is used druing radiated emissions above 1GHz measurement.

8.4 Corrected Amplitude & Margin Calculation

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

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the maximum limit for Class B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{Limit}$$

8.5 Summary of Test Results

Test Frequency: 9KHz~30MHz

The measurements were more than 20 dB below the limit and not reported.

Test Frequency: 30MHz ~ 8GHz

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	Limit	Margin
				Height	Polar				
(MHz)	(dB μ V)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)
OQPSK Low Channel 2405MHz									
215.48	35.66	QP	121	1.9	H	-13.35	22.31	46.00	-23.69
215.48	41.62	QP	209	1.3	V	-13.35	28.27	46.00	-17.73
4810.00	47.40	PK	100	1.7	V	-1.06	46.34	74.00	-27.66
4810.00	42.65	Ave	100	1.7	V	-1.06	41.59	54.00	-12.41
7215.00	45.28	PK	285	1.1	H	1.33	46.61	74.00	-27.39
7215.00	37.04	Ave	285	1.1	H	1.33	38.37	54.00	-15.63
2323.84	46.13	PK	10	1.1	V	-13.19	32.94	74.00	-41.06
2323.84	38.83	Ave	10	1.1	V	-13.19	25.64	54.00	-28.36
2372.52	42.30	PK	209	1.0	H	-13.14	29.16	74.00	-44.84
2372.52	36.88	Ave	209	1.0	H	-13.14	23.74	54.00	-30.26
2487.22	43.79	PK	269	1.9	V	-13.08	30.71	74.00	-43.29
2487.22	37.14	Ave	269	1.9	V	-13.08	24.06	54.00	-29.94

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	Limit	Margin
				Height	Polar				
(MHz)	(dB μ V)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)
OQPSK Middle Channel 2440MHz									
215.48	36.32	QP	242	2.0	H	-13.35	22.97	46.00	-23.03
215.48	42.39	QP	186	1.5	V	-13.35	29.04	46.00	-16.96
4880.00	43.46	PK	10	1.2	V	-0.62	42.84	74.00	-31.16
4880.00	42.60	Ave	10	1.2	V	-0.62	41.98	54.00	-12.02
7320.00	44.83	PK	329	1.9	H	2.21	47.04	74.00	-26.96
7320.00	38.03	Ave	329	1.9	H	2.21	40.24	54.00	-13.76
2325.77	46.28	PK	51	1.9	V	-13.19	33.09	74.00	-40.91
2325.77	39.47	Ave	51	1.9	V	-13.19	26.28	54.00	-27.72
2366.98	43.57	PK	281	1.8	H	-13.14	30.43	74.00	-43.57
2366.98	38.07	Ave	281	1.8	H	-13.14	24.93	54.00	-29.07
2498.71	42.63	PK	84	1.1	V	-13.08	29.55	74.00	-44.45
2498.71	36.70	Ave	84	1.1	V	-13.08	23.62	54.00	-30.38

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	Limit	Margin
				Height	Polar				
(MHz)	(dB μ V)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)
OQPSK High Channel 2480MHz									
215.48	35.94	QP	188	1.3	H	-13.35	22.59	46.00	-23.41
215.48	38.46	QP	167	1.5	V	-13.35	25.11	46.00	-20.89
4960.00	43.58	PK	318	1.1	V	-0.24	43.34	74.00	-30.66
4960.00	44.08	Ave	318	1.1	V	-0.24	43.84	54.00	-10.16
7440.00	45.83	PK	317	1.2	H	2.84	48.67	74.00	-25.33
7440.00	36.29	Ave	317	1.2	H	2.84	39.13	54.00	-14.87
2343.43	46.88	PK	228	1.6	V	-13.19	33.69	74.00	-40.31
2343.43	37.87	Ave	228	1.6	V	-13.19	24.68	54.00	-29.32
2363.13	42.92	PK	267	1.9	H	-13.14	29.78	74.00	-44.22
2363.13	36.62	Ave	267	1.9	H	-13.14	23.48	54.00	-30.52
2496.25	44.10	PK	338	1.6	V	-13.08	31.02	74.00	-42.98
2496.25	36.15	Ave	338	1.6	V	-13.08	23.07	54.00	-30.93

Test Frequency: 8GHz~25GHz

The measurements were more than 20 dB below the limit and not reported.

9 Band Edge Measurement

Test Requirement: FCC 47CFR Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02, April 2, 2019

Regulation 15.247 (d), 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)).

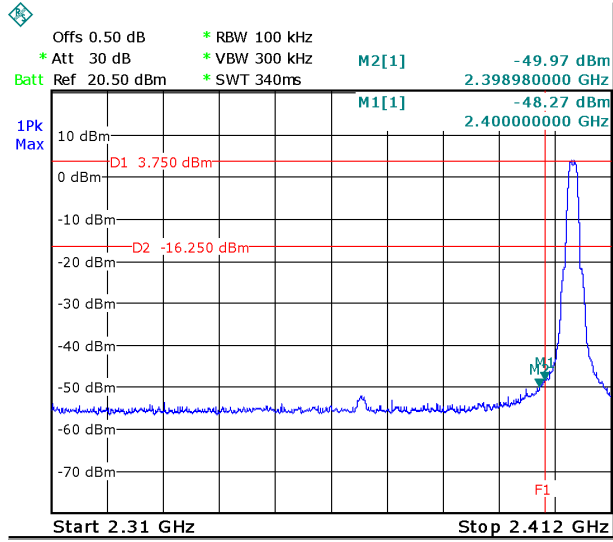
Test Mode: Transmitting

9.1 Test Produce

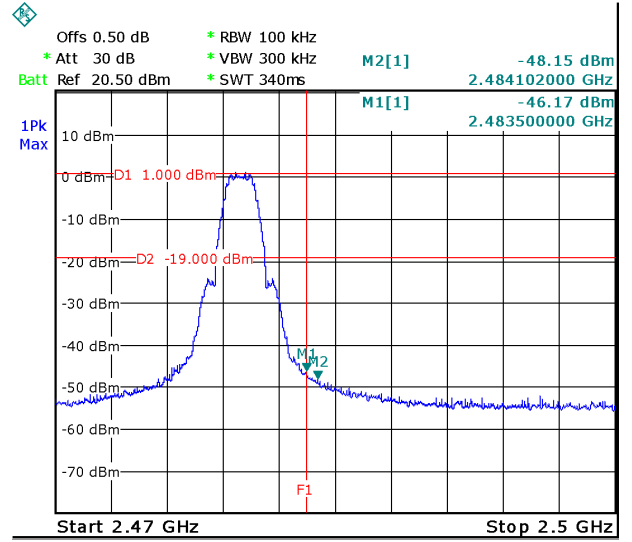
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then 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.

9.2 Test Result

Test result plots shown as follows:
ZigBee: Band edge-left side



ZigBee: Band edge-right side



10 6 dB Bandwidth Measurement

Test Requirement:	FCC 47CFR Part 15 Section 15.247
Test Method:	ANSI C63.10:2013 KDB 558074 D01 15.247 Meas Guidance v05r02, April 2, 2019
Test Limit:	§15.247(a)(2) 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 Mode:	Transmitting

10.1 Test Procedure:

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. 6dB Bandwidth Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz

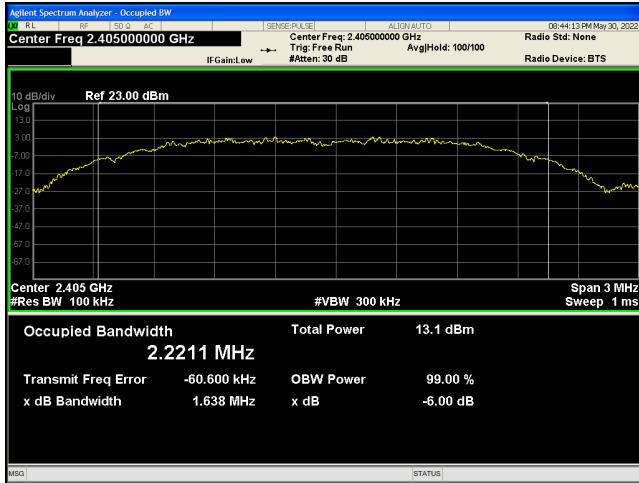
10.2 Test Result:

Operation mode	Test Channel	6dB Bandwidth (MHz)
ZigBee	Channel 0	1.638
	Channel 7	1.617
	Channel 15	1.624

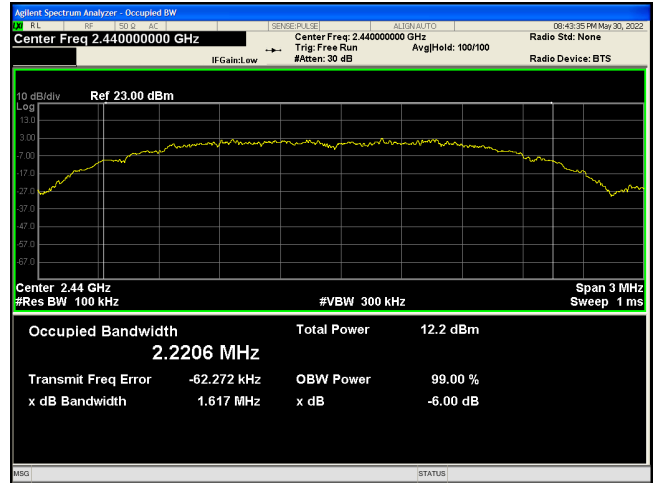
Note: please refer to next page for test plot.

Test result plot:

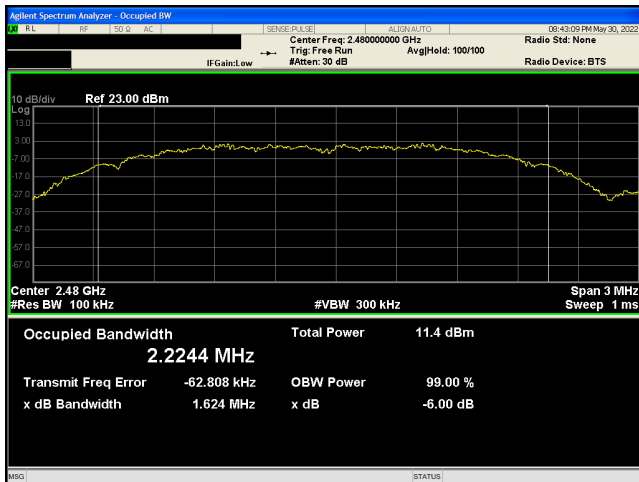
Mode: TX OQPSK channel 0



Mode: TX OQPSK channel 7



Mode: TX OQPSK channel 15



11 Maximum Peak Output Power

Test Requirement:	FCC 47CFR Part 15 Section 15.247
Test Method:	ANSI C63.10:2013 KDB 558074 D01 15.247 Meas Guidance v05r02, April 2, 2019
Test Limit:	§15.247(b) The maximum peak conducted output power of the intentional radiator shall not exceed 1W.
Test Mode:	Transmitting

11.1 Test Procedure:

According to KDB 558074 D01 15.247 Meas Guidance v05r02, April 2, 2019

Section 8.3.1.1 RBW \geq DTS bandwidth

Subclause 11.9.1.1 of ANSI C63.10 is applicable.

Section 8.3.1.2 Integrated band power method

For measuring the output power of a device transmitting a wide-band noise-like signal where the peak power amplitude is a statistical parameter, the preferred methodology is to use an integrated average power measurement, as described in 8.3.2. The peak integrated band power method of 11.9.1 in ANSI C63.10 is not applicable.

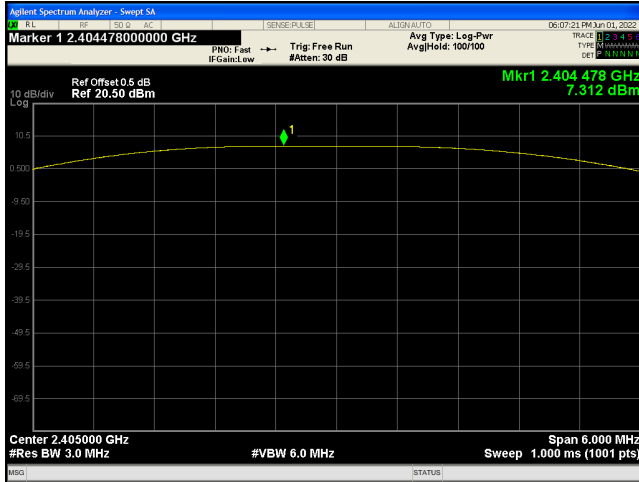
Subclause 11.9.2 of ANSI C63.10 is applicable.

11.2 Test Result:

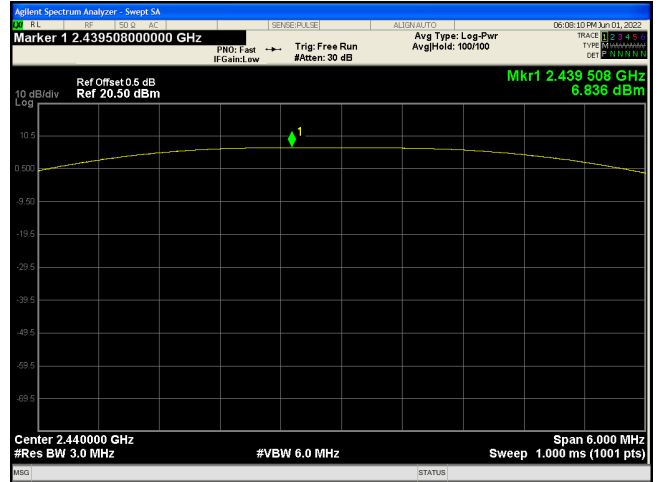
Operation mode	Channel Frequency (MHz)	Maximum Peak Output Power (dBm)	Limit
ZigBee	Low-2405	7.312	1W/30dBm
	Middle-2440	6.836	1W/30dBm
	High-2480	6.142	1W/30dBm

Test Plot

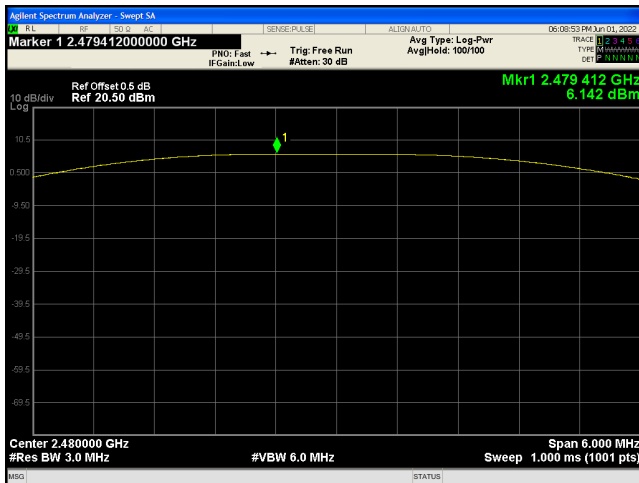
Mode: TX OQPSK channel 0



Mode: TX OQPSK channel 7



Mode: TX OQPSK channel 15



12 Power Spectral density

Test Requirement:	FCC 47CFR Part 15 Section 15.247
Test Method:	ANSI C63.10:2013 KDB 558074 D01 15.247 Meas Guidance v05r02, April 2, 2019
Test Limit:	§15.247(e) 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.
Test Mode:	Transmitting

12.1 Test Procedure:

According to KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019 section 8.4

Subclause 11.10 of ANSI C63.10 is applicable.

Choose the test procedure according to the product type

Peak PSD

Subclause 11.10.2 of ANSI C63.10 is applicable.

AVG PSD

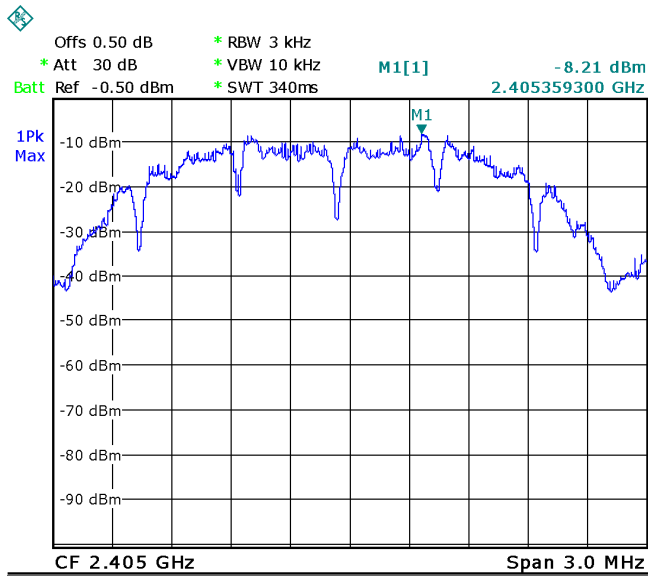
Subclause 11.10.3/4/5/6/7/8 of ANSI C63.10 is applicable.

12.2 Test Result:

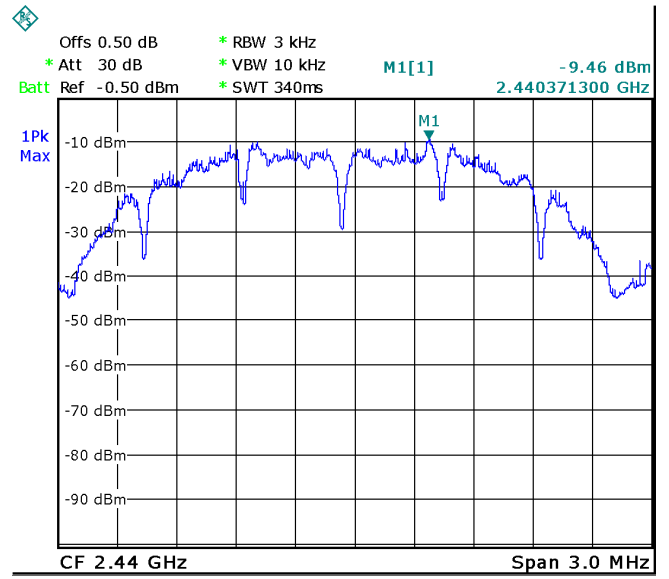
Operation mode	Channel Frequency (MHz)	Power Spectral (dBm per 3kHz)	Limit
ZigBee	Low-2405	-8.21	8dBm per 3kHz
	Middle-2440	-9.46	8dBm per 3kHz
	High-2480	-10.59	8dBm per 3kHz

Test Plot

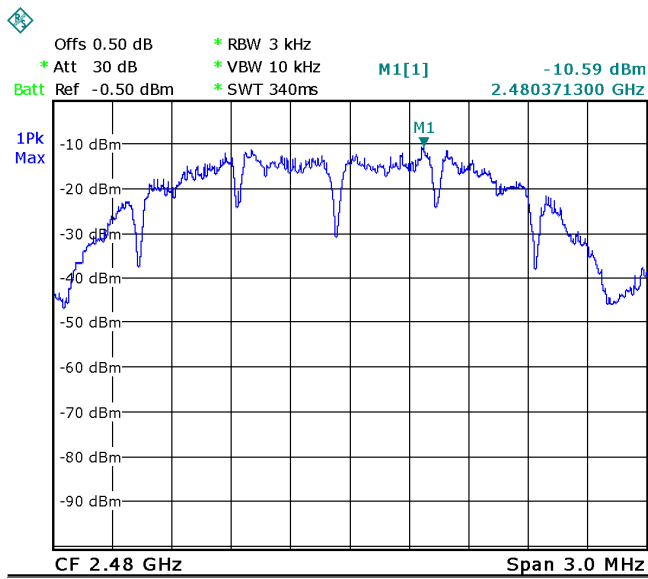
Mode: TX OQPSK channel 0



Mode: TX OQPSK channel 7



Mode: TX OQPSK channel 15



13 Antenna Requirement

According to the FCC Part 15 Paragraph 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. This product has an integrated antenna fulfil the requirement of this section.

Note: Please refer to EUT photos for more details.

14 RF Exposure

Remark: Please refer to MPE test report: WTD22D05092786W002.

15 Photographs of test setup and EUT.

Note: Please refer to appendix: Appendix- ERS-10TZBVK-AA -Photos.

=====**End of Report**=====