FCC TEST REPORT

FCC ID: 2BS53-AE3

Report No.	:	SSP25090415-1E
Applicant	:	Yiwu Tianluan Import and Export Co., Ltd
Product Name	:	Quadcopter
Model Name	:	AE3
Test Standard	:	FCC Part 15.249
Date of Issue	:	2025-10-10

Shenzhen CCUT Quality Technology Co., Ltd.
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This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.

Test Report Basic Information

Applicant.....:	Yiwu Tianluan Import and Export Co., Ltd
Address of Applicant.....:	301, 3rd Floor, No. 296 Xiangshan Road, Choujiang Subdistrict, Yiwu City, Jinhua City, Zhejiang, Free Trade Zone, China
Manufacturer.....:	Shantou Tongle Xin Technology Co., Ltd.
Address of Manufacturer.....:	No. 2, East Wuxiang, Yong'an Road, Shangpai, Chenghai District, Shantou City, China
Product Name.....:	Quadcopter
Brand Name.....:	-
Main Model.....:	AE3
Series Models.....:	TLX18, EZ-3, V17, V18
Test Standard.....:	FCC Part 15 Subpart C ANSI C63.4-2014 ANSI C63.10-2020
Date of Test .....:	2025-09-28 to 2025-10-09
Test Result.....:	PASS
Tested By .....:	Walker Wu (Walker Wu)
Reviewed By.....:	Lorzix Luo (Lorzix Luo)
Authorized Signatory.....:	Lahm Peng (Lahm Peng)

Shenzhen CCUT Quality Technology Co., Ltd. APPROVED

Note : This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.. All test data presented in this test report is only applicable to presented test sample.

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Revision History

Revision	Issue Date	Description	Revised By
V1.0	2025-10-10	Initial Release	Lahm Peng

1. General Information

1.1 Product Information

Product Name:	Quadcopter
Trade Name:	-
Main Model:	AE3
Series Models:	TLX18, EZ-3, V17, V18
Rated Voltage:	DC 4.5V by AAA*3 battery
Test Sample No:	SSP25090415-1
Hardware Version:	1.0
Software Version:	1.0
Note 1: The test data is gathered from a production sample, provided by the manufacturer. Note 2: The color of appearance and model name of series models listed are different from the main model, but the circuit and the electronic construction are the same, declared by the manufacturer.	

Wireless Specification	
Wireless Standard:	2.4GHz RF
Operating Frequency:	2456MHz ~2479MHz
Max. Field Strength:	92.72dBuV/m
Quantity of Channel:	19
Channel Separation:	1MHz
Modulation:	GFSK
Antenna Gain:	2.1dBi
Type of Antenna:	Integral Antenna
Type of Device:	☒ Portable Device ☐ Mobile Device ☐ Modular Device

1.2 Test Setup Information

List of Test Modes		
Test Mode	Description	Remark
TM1	Transmitting	2456/2466/2479MHz
-	-	-

List and Details of Auxiliary Cable			
Description	Length (cm)	Shielded/Unshielded	With/Without Ferrite
-	-	-	-
-	-	-	-

List and Details of Auxiliary Equipment			
Description	Manufacturer	Model	Serial Number
-	-	-	-
-	-	-	-

List of Channels							
No. of Channel	Frequency (MHz)	No. of Channel	Frequency (MHz)	No. of Channel	Frequency (MHz)	No. of Channel	Frequency (MHz)
01	2456	06	2461	11	2467	16	2472
02	2457	07	2462	12	2468	17	2473
03	2458	08	2463	13	2469	18	2474
04	2459	09	2464	14	2470	19	2479
05	2460	10	2465	15	2471		

1.3 Compliance Standards

Compliance Standards	
FCC Part 15 Subpart C	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES, Intentional Radiators
All measurements contained in this report were conducted with all above standards	
According to standards for test methodology	
FCC Part 15 Subpart C	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES, Intentional Radiators
ANSI C63.4-2014	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.
ANSI C63.10-2020	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
Maintenance of compliance is the responsibility of the manufacturer or applicant. Any modification of the product, which result is lowering the emission, should be checked to ensure compliance has been maintained.	

1.4 Test Facilities

Laboratory Name:	**Shenzhen CCUT Quality Technology Co., Ltd.** 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China
CNAS Laboratory No.:	L18863
A2LA Certificate No.:	6983.01
FCC Registration No:	583813
FCC Designation No.:	CN1373
ISED Registration No.:	CN0164

1.5 List of Measurement Instruments

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Conducted Emissions					
AMN	ROHDE&SCHWARZ	ENV216	101097	2025-07-15	2026-07-14
EMI Test Receiver	ROHDE&SCHWARZ	ESPI	100242	2025-07-15	2026-07-14
Test Cable	N/A	Cable 5	N/A	2025-07-15	2026-07-14
EMI Test Software	FARA	EZ-EMC	EMEC-3A1+	N/A	N/A
Radiated Emissions					
EMI Test Receiver	ROHDE&SCHWARZ	ESPI	100154	2025-07-15	2026-07-14
Spectrum Analyzer	KEYSIGHT	N9020A	MY48030972	2025-07-15	2026-07-14
Spectrum Analyzer	ROHDE&SCHWARZ	FSV40-N	101692	2025-07-15	2026-07-14
Amplifier	SCHWARZBECK	BBV 9743B	00251	2025-07-15	2026-07-14
Amplifier	HUABO	YXL0518-2.5-45	--	2025-07-15	2026-07-14
Amplifier	COM-MW	DLAN-18G-4G-02	10229104	2025-07-15	2026-07-14
Loop Antenna	DAZE	ZN30900C	21104	2025-07-12	2026-07-11
Broadband Antenna	SCHWARZBECK	VULB 9168	01320	2025-07-12	2026-07-11
Horn Antenna	SCHWARZBECK	BBHA 9120D	02553	2025-07-12	2026-07-11
Horn Antenna	COM-MW	ZLB7-18-40G-950	12221225	2025-07-12	2026-07-11
Attenuator	QUANJUDA	6dB	220731	2025-07-15	2026-07-14
Test Cable	N/A	Cable 1	N/A	2025-07-15	2026-07-14
Test Cable	N/A	Cable 2	N/A	2025-07-15	2026-07-14
Test Cable	N/A	Cable 3	N/A	2025-07-15	2026-07-14
Test Cable	N/A	Cable 4	N/A	2025-07-15	2026-07-14
Test Cable	N/A	Cable 8	N/A	2025-07-15	2026-07-14
Test Cable	N/A	Cable 9	N/A	2025-07-15	2026-07-14
EMI Test Software	FARA	EZ-EMC	FA-03A2 RE+	N/A	N/A
Conducted RF Testing					
RF Test System	MWRFTest	MW100-RFCB	220418SQS-37	2025-07-16	2026-07-15
Spectrum Analyzer	KEYSIGHT	N9020A	ATO-90521	2025-07-16	2026-07-15
RF Test Software	MWRFTest	MTS 8310	N/A	N/A	N/A
Laptop	Lenovo	ThlnkPad E15 Gen 3	SPPOZ22485	N/A	N/A

1.6 Measurement Uncertainty

Test Item	Conditions	Uncertainty
Conducted Emissions	9kHz ~ 30MHz	±1.64 dB
Radiated Emissions	9kHz ~ 30MHz	±2.88 dB
	30MHz ~ 1GHz	±3.32 dB
	1GHz ~ 18GHz	±3.50 dB
	18GHz ~ 40GHz	±3.66 dB
Occupied Bandwidth	9kHz ~ 26GHz	±4.0 %

2. Summary of Test Results

FCC Rule	Description of Test Item	Result
FCC Part 15.203	Antenna Requirement	Passed
FCC Part 15.207	Conducted Emissions	N/A
FCC Part 15.209, 15.249(a)&(d)	Radiated Emissions	Passed
FCC Part 15.249(d)	Band-edge Emissions	Passed
FCC Part 15.215(c)	Occupied Bandwidth	Passed
Passed: The EUT complies with the essential requirements in the standard Failed: The EUT does not comply with the essential requirements in the standard N/A: Not applicable		

3. Antenna Requirement

3.1 Standard and Limit

According to FCC Part 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.

3.2 Test Result

This product has an integral antenna, fulfill the requirement of this section.

4. Conducted Emissions

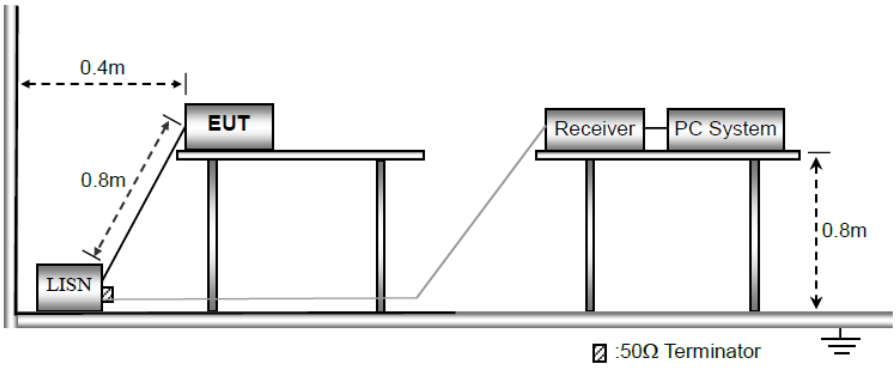
4.1 Standard and Limit

According to the rule FCC Part 15.207, Conducted emissions limit, the limit for a wireless device as below:

Frequency of Emission (MHz)	Conducted emissions (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50
Note 1: Decreases with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz Note 2: The lower limit applies at the band edges		

4.2 Test Procedure

Test is conducting under the description of ANSI C63.10-2020 section 6.2.



Test Setup Block Diagram

a) The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

b) The following is the setting of the receiver
Attenuation: 10dB
Start Frequency: 0.15MHz
Stop Frequency: 30MHz
IF Bandwidth: 9kHz

c) The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

d) Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
e) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

f) LISN is at least 80 cm from nearest part of EUT chassis.

g) For the actual test configuration, please refer to the related Item - photographs of the test setup.

4.3 Test Data and Results

Because the product power is supply through DC 4.5V by AAA*3 battery, so not applicable.

5. Radiated Emissions

5.1 Standard and Limit

According to §15.249(a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental (milli-volts/meter)	Field strength of Harmonics (micro-volts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

According to §15.249(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

According to the rule FCC Part 15.209, Radiated emission limit for a wireless device as below:

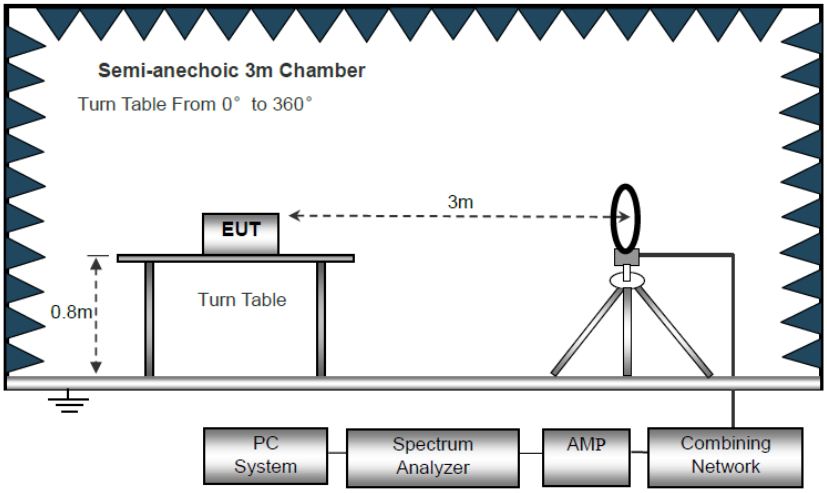
Frequency of emission (MHz)	Radiated emissions (3m)
	Quasi-peak (dBuV/m)
30-88	40
88-216	43.5
216-960	46
Above 960	54
Note: The more stringent limit applies at transition frequencies.	

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

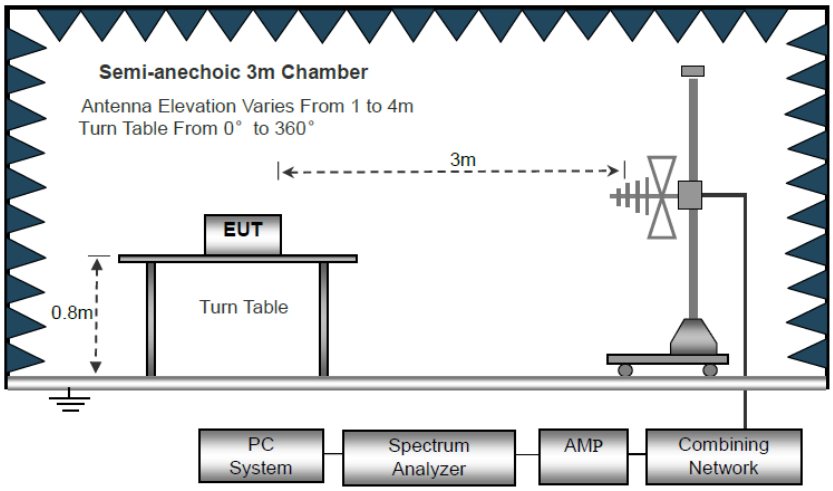
Note: Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

5.2 Test Procedure

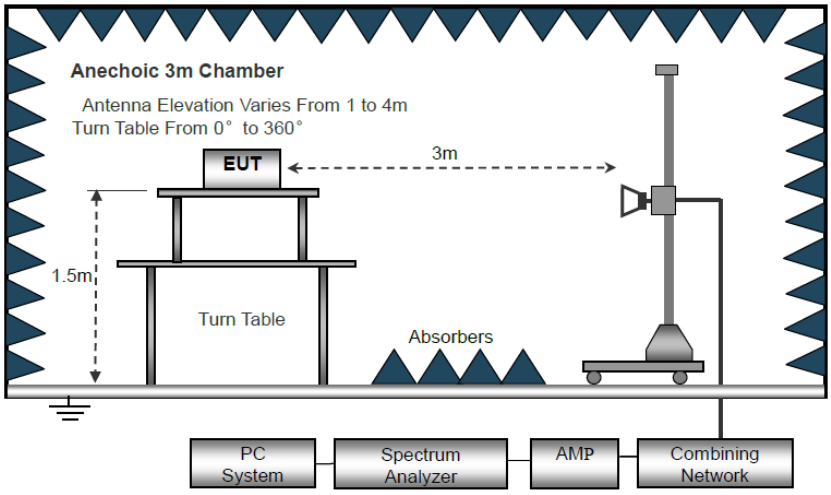
Test is conducting under the description of ANSI C63.10-2020 section 6.3 to 6.6.



Block Diagram of Radiated Emission Below 30MHz



Block Diagram of Radiated Emission From 30MHz to 1GHz



Block Diagram of Radiated Emission Above 1GHz

a) The EUT is placed on a turntable, which is 0.8m above ground plane for test frequency range blew 1GHz, and 1.5m above ground plane for test frequency range above 1GHz.

b) EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.

c) Use the following spectrum analyzer settings:
Span = wide enough to fully capture the emission being measured
RBW = 1 MHz for f ≥ 1GHz, 100 kHz for f < 1 GHz, 10kHz for f < 30MHz
VBW ≥ RBW, Sweep = auto
Detector function = peak
Trace = max hold

d) Follow the guidelines in ANSI C63.4-2014 with respect to maximizing the emission by rotating the EUT, adjusting the measurement antenna height and polarization, etc. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, submit this data. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

e) The peak level, once corrected, must comply with the limit specified in Section 15.209. Set the RBW = 1MHz, VBW = 10Hz, Detector = PK for AV value, while maintaining all of the other instrument settings.

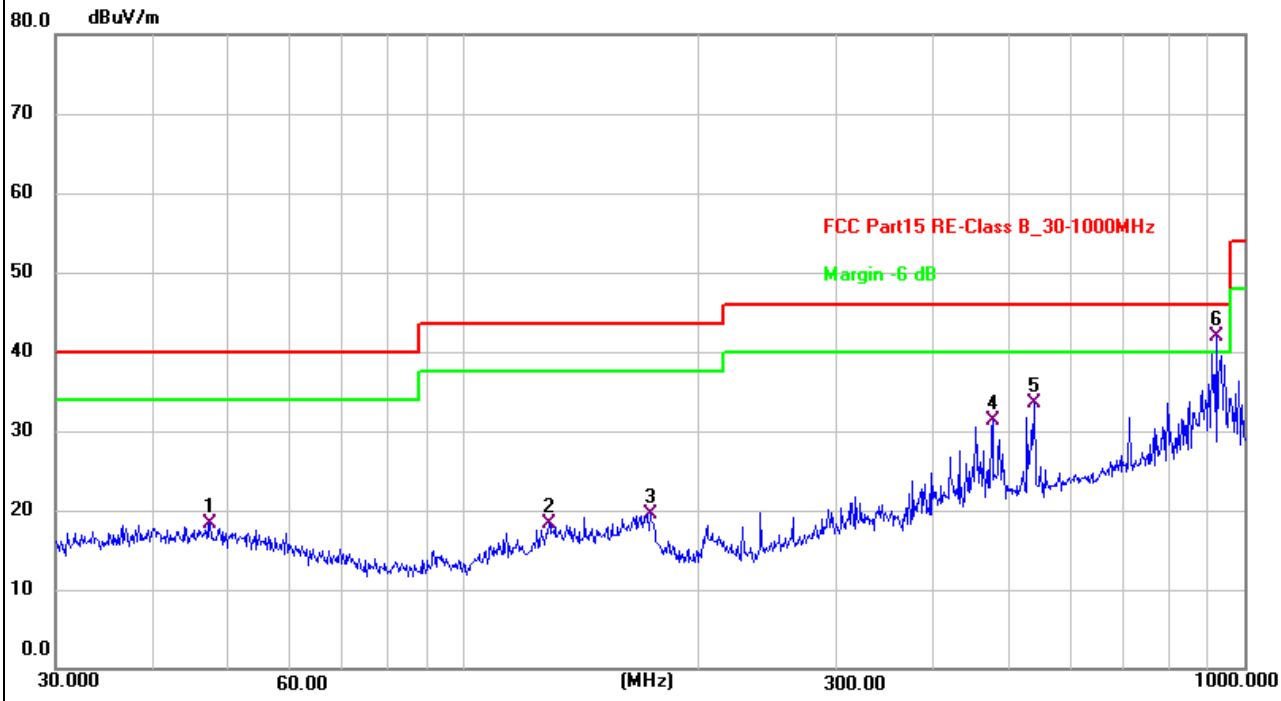
f) For the actual test configuration, please refer to the related item - EUT test photos.

5.3 Test Data and Results

Based on all tested data, the EUT complied with the FCC Part 15.249 standard limit for a wireless device, and with the worst case GFSK_2456MHz as below:

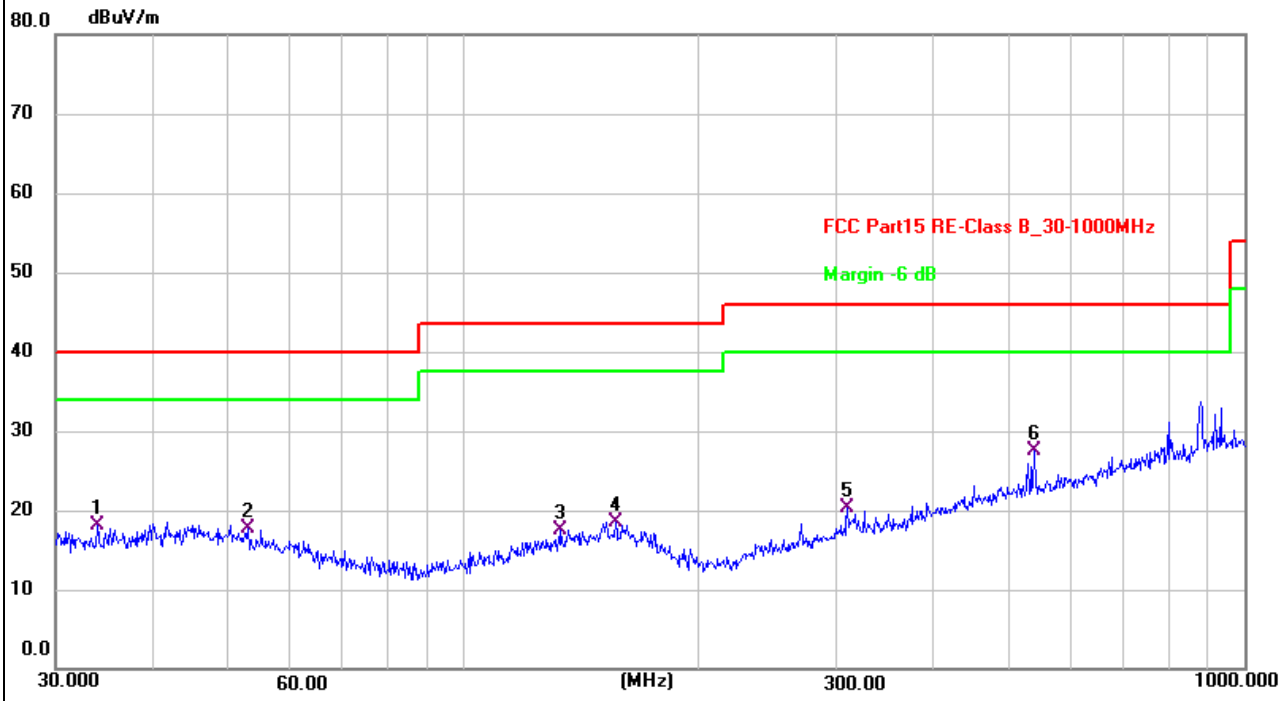
Remark: Level = Reading + Factor, Margin = Level - Limit

Radiated Emission Test Data (30MHz to 1GHz)	
Tested Mode:	TM1
Test Antenna Polarization:	Horizontal
Remark:	



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	47.3255	26.62	-8.33	18.29	40.00	-21.71	QP	100	12	P	
2	128.5630	27.37	-8.98	18.39	43.50	-25.11	QP	100	147	P	
3	173.2051	28.91	-9.34	19.57	43.50	-23.93	QP	100	53	P	
4	475.4991	35.11	-3.87	31.24	46.00	-14.76	QP	100	272	P	
5	537.5891	36.38	-2.87	33.51	46.00	-12.49	QP	100	220	P	
6 *	919.2866	39.06	2.81	41.87	46.00	-4.13	QP	100	12	P	

Radiated Emission Test Data (30MHz to 1GHz)	
Tested Mode:	TM1
Test Antenna Polarization:	Vertical
Remark:	



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	33.9174	27.18	-9.05	18.13	40.00	-21.87	QP	100	215	P	
2	52.9453	26.65	-8.87	17.78	40.00	-22.22	QP	100	1	P	
3	133.1511	26.14	-8.65	17.49	43.50	-26.01	QP	100	247	P	
4	156.4578	26.34	-7.82	18.52	43.50	-24.98	QP	100	215	P	
5	309.9977	28.01	-7.65	20.36	46.00	-25.64	QP	100	173	P	
6 *	537.5891	30.46	-2.87	27.59	46.00	-18.41	QP	100	153	P	

Radiated Emission Test Data (Above 1GHz)							
Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
MHz	dBuV/m	dB/m	dBuV/m	dBuV/m	dB	H/V	PK/AV
Lowest Channel (2456MHz)							
2456	111.38	-20.89	90.49	114	-23.51	H	PK
2456	98.28	-20.89	77.39	94	-16.61	H	AV
4912	77.8	-14.72	63.08	74	-10.92	H	PK
4912	62.57	-14.72	47.85	54	-6.15	H	AV
7368	64.44	-8.41	56.03	74	-17.97	H	PK
7368	48.86	-8.41	40.45	54	-13.55	H	AV
2456	113.61	-20.89	92.72	114	-21.28	V	PK
2456	99.64	-20.89	78.75	94	-15.25	V	AV
4912	74.66	-14.72	59.94	74	-14.06	V	PK
4912	59.72	-14.72	45	54	-9	V	AV
7368	65.48	-8.41	57.07	74	-16.93	V	PK
7368	46.95	-8.41	38.54	54	-15.46	V	AV
Middle Channel (2466MHz)							
2466	106.15	-20.7	85.45	114	-28.55	H	PK
2466	99.21	-20.7	78.51	94	-15.49	H	AV
4932	79.99	-14.64	65.35	74	-8.65	H	PK
4932	61.73	-14.64	47.09	54	-6.91	H	AV
7398	65.77	-8.28	57.49	74	-16.51	H	PK
7398	47.92	-8.28	39.64	54	-14.36	H	AV
2466	107.52	-20.7	86.82	114	-27.18	V	PK
2466	86.13	-20.7	65.43	94	-28.57	V	AV
4932	77.86	-14.64	63.22	74	-10.78	V	PK
4932	58.19	-14.64	43.55	54	-10.45	V	AV
7398	63.99	-8.28	55.71	74	-18.29	V	PK
7398	49.97	-8.28	41.69	54	-12.31	V	AV

Radiated Emission Test Data (Above 1GHz)							
Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
MHz	dBuV/m	dB/m	dBuV/m	dBuV/m	dB	H/V	PK/AV
Highest Channel (2479MHz)							
2479	108.18	-20.55	87.63	114	-26.37	H	PK
2479	95.33	-20.55	74.78	94	-19.22	H	AV
4958	76.39	-14.53	61.86	74	-12.14	H	PK
4958	60.45	-14.53	45.92	54	-8.08	H	AV
7437	64.77	-8.13	56.64	74	-17.36	H	PK
7437	46.21	-8.13	38.08	54	-15.92	H	AV
2479	103.73	-20.55	83.18	114	-30.82	V	PK
2479	89.28	-20.55	68.73	94	-25.27	V	AV
4958	76.49	-14.53	61.96	74	-12.04	V	PK
4958	59.71	-14.53	45.18	54	-8.82	V	AV
7437	65.39	-8.13	57.26	74	-16.74	V	PK
7437	50.76	-8.13	42.63	54	-11.37	V	AV

Note 1: this EUT was tested in 3 orthogonal positions, with the X-axis being the worst, and the worst case position data was reported.

Note 2: Testing is carried out with frequency rang 9kHz to the tenth harmonics. The measurements greater than 20dB below the limit from 9kHz to 30MHz.

Note 3: Other emissions are attenuated 20dB below the limits from 9kHz to 30MHz, so it does not recorded report, 18GHz-26GHz not recorded for no spurious point have a margin of less than 20 dB with respect to the limits.

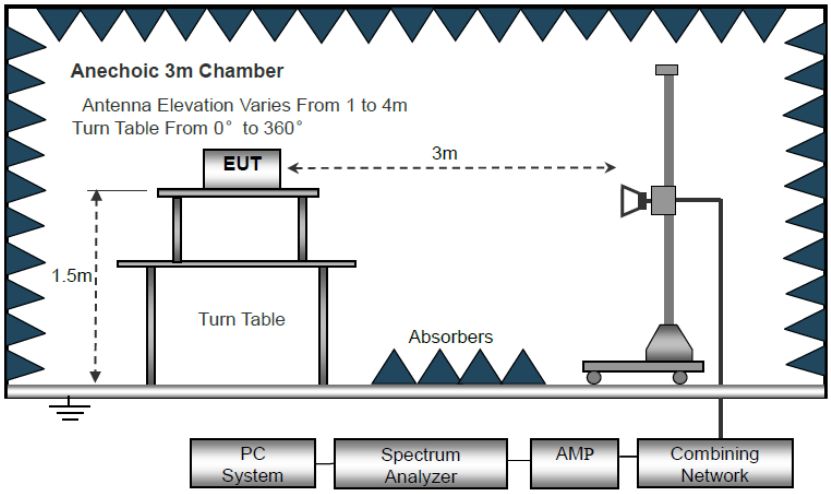
6. Band-edge Emissions

6.1 Standard and Limit

According to §15.249(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

6.2 Test Procedure

Test is conducting under the description of ANSI C63.10-2020 section 6.3 to 6.6 and section 6.10.



Test Setup Block Diagram

As the radiated emissions testing, set the Lowest and Highest Transmitting Channel, observed the outside band of 2310MHz to 2400MHz and 2483.5MHz to 2500MHz, than mark the higher-level emission for comparing with the FCC rules.

6.3 Test Data and Results

Based on all tested data, the EUT complied with the FCC Part 15.249 standard limit, and with the worst case as below:

Test Mode	Frequency	Limit	Result
	MHz	dBuV/dBc	
Lowest	2310.00	<54 dBuV	Pass
	2390.00	<54 dBuV	Pass
Highest	2483.50	<54 dBuV	Pass
	2500.00	<54 dBuV	Pass

Radiated Emission Test Data (Band edge emissions)							
Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
MHz	dBuV/m	dB/m	dBuV/m	dBuV/m	dB	H/V	PK/AV
Lowest Channel (2456MHz)							
2310	64.33	-21.34	42.99	74	-31.01	H	PK
2310	50.39	-21.34	29.05	54	-24.95	H	AV
2390	68.61	-20.96	47.65	74	-26.35	H	PK
2390	49.03	-20.96	28.07	54	-25.93	H	AV
2400	71.29	-20.91	50.38	74	-23.62	H	PK
2400	54.53	-20.91	33.62	54	-20.38	H	AV
2310	65.36	-21.34	44.02	74	-29.98	V	PK
2310	49.97	-21.34	28.63	54	-25.37	V	AV
2390	66.4	-20.96	45.44	74	-28.56	V	PK
2390	52.82	-20.96	31.86	54	-22.14	V	AV
2400	68.8	-20.91	47.89	74	-26.11	V	PK
2400	55.72	-20.91	34.81	54	-19.19	V	AV
Highest Channel (2479MHz)							
2483.50	71.29	-20.51	50.78	74	-23.22	H	PK
2483.50	55.66	-20.51	35.15	54	-18.85	H	AV
2500	65.7	-20.43	45.27	74	-28.73	H	PK
2500	49.09	-20.43	28.66	54	-25.34	H	AV
2483.50	67.87	-20.51	47.36	74	-26.64	V	PK
2483.50	53.09	-20.51	32.58	54	-21.42	V	AV
2500	69.7	-20.43	49.27	74	-24.73	V	PK
2500	51.69	-20.43	31.26	54	-22.74	V	AV

Remark: Level = Reading + Factor, Margin = Level - Limit

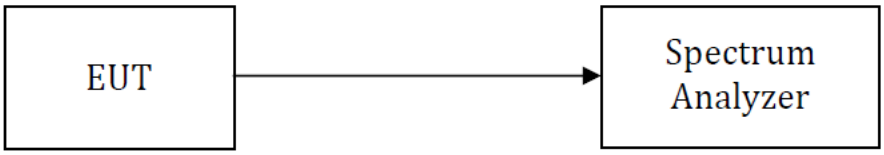
7. Occupied Bandwidth

7.1 Standard and Limit

According to 15.215 (c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

7.2 Test Procedure

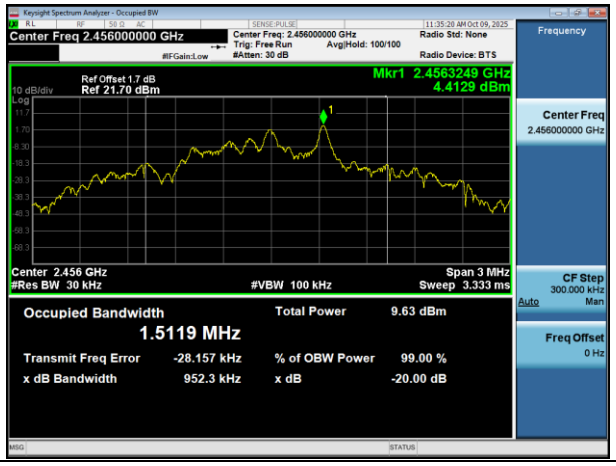
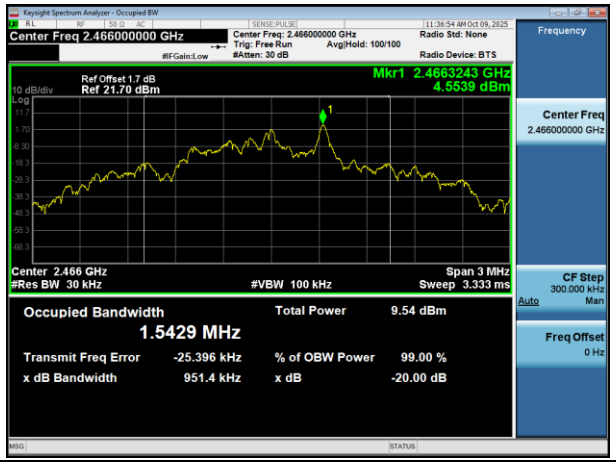
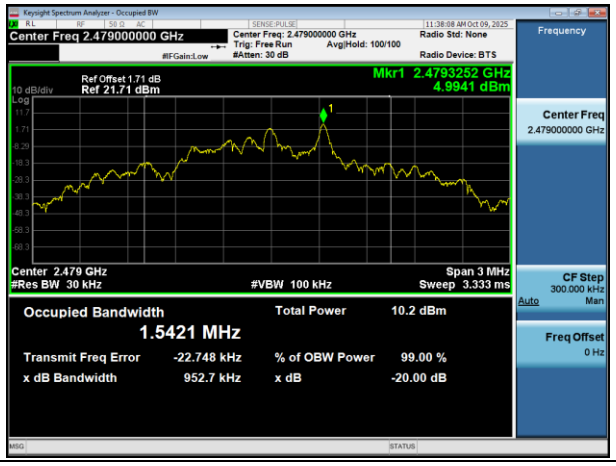
According to the ANSI C63.10-2020, section 6.9, the emission bandwidth test method as follows.
1) Remove the antenna from the EUT and connect to the spectrum analyzer via a low loss RF cable.
2) Set the spectrum analyzer to any one measured frequency within its operating range.
3) Set RBW = 30kHz, VBW = 100kHz, Sweep = Auto.
4) Set a reference level on the measuring instrument equal to the highest peak value.
5) Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
6) Repeat the above procedures until all frequencies measured were complete.
All the trace to stabilize, use the marker-to-peak function to set the marker to the peak of the emission, use the marker-delta function to measure and record the 20dB down and 99% bandwidth of the emission.



Test Setup Block Diagram

7.3 Test Data and Results

Test Channel	Test Frequency	20dB Bandwidth(MHz)	99% Bandwidth(MHz)
Lowest Channel	2456MHz	0.9523	1.512
Middle Channel	2466MHz	0.9514	1.543
Highest Channel	2479MHz	0.9527	1.542

Test Plots of Occupied Bandwidth
2456MHz 
2466MHz 
2479MHz 

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