



FCC RADIO TEST REPORT

Applicant..... : Vornado Air LLC

Address...... : 415 E. 13th Street, Andover KS 67002 USA

Manufacturer.....: Guangdong Migair Electric Science and Technology Industrial Company

Limited Beijiao First Branch

Address.....: No.6 Huancun Road, Guangjiao, Beijiao Town, Shunde, Foshan,

Guangdong, China

Factory: Guangdong Migair Electric Science and Technology Industrial Company

Limited Beijiao First Branch

Address: No.6 Huancun Road, Guangjiao, Beijiao Town, Shunde, Foshan,

Guangdong, China

Product Name..... Remote Control

Brand Name..... : Sharper Image, VORNADO

Model No. : FLY 01

FCC ID: : WOTFLY01

Measurement Standard......: 47 CFR FCC Part 15, Subpart C (Section 15.231)

Receipt Date of Samples......: October 09, 2022

Date of Tested.....: October 09, 2022 to November 14, 2022

Date of Report.....: November 15, 2022

This report shows that above equipment is technically compliant with the requirements of the standards above. All test results in this report apply only to the tested sample(s). Without prior written approval of Dongguan Nore Testing Center Co., Ltd, this report shall not be reproduced except in full.

Prepared by

Rose Hu / Project Engineer

Approved by

Iori Fan / Authorized Signatory



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Revision History

Description	Issued Date
Initial Issue	2022-11-15





1. Summary of Test Result

FCC Rules	Description of Test	Result	Remarks
§15.207 (a)	AC Power Line Conducted Emission	N/A see note	
§15.231(b) & 15.209	Radiated Spurious Emission	PASS	
§15.231(c)	20 dB Occupied bandwidth	PASS	
§15.231(a)	Transmission time	PASS	
§15.203	Antenna Requirement	PASS	

Note: AC Power Conducted Emission is not applicable due to the EUT only can be powered by battery.





2. General Description of EUT

Product Information	
Product Name:	Remote Control
Main Model Name:	FLY 01
Additional Model Name:	N/A
Model Difference:	N/A
S/N:	Not stated
Brand Name:	Sharper Image, VORNADO
Hardware Version:	Not stated
Software Version:	Not stated
Rating:	DC 3.0V CR2032 battery
Classification:	Class B
Typical arrangement:	Table-top
I/O Port:	N/A
Accessories Information	
Adapter:	N/A
Cable:	N/A
Other:	N/A
Additional Information	
Note:	N/A
Remark:	All the information above are provided by the manufacturer. More detailed feature of the EUT please refers to the user manual.





Technical Specification	
Declaring the Frequency:	434.07MHz
Modulation Type:	ASK
Antenna Type:	PCB antenna
Antenna Gain:	-0.15 dBi (Declared by manufacturer)
Number of Channels:	1



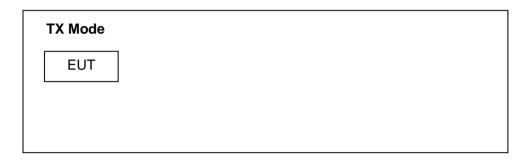


3. Test Channels and Modes Detail

Mode		Test Frequency (MHz)	Modulation	Data Rate (Mbps)	
1	TX	434.07MHz	ASK		

Note: TX mode means that the EUT was programmed to be in continuously transmitting mode.

4. Configuration of EUT



5. Modification of EUT

No modifications are made to the EUT during all test items.

6. Description of Support Device

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.

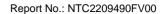
No.	Equipment	Brand	M/N	S/N	Cable Specification	Remarks





7. Test Facility and Location

Test Site	:	Dongguan Nore Testing Center Co., Ltd. (Dongguan NTC Co., Ltd.)
Accreditations and	:	The Laboratory has been assessed and proved to be in compliance with
Authorizations		CNAS/CL01
		Listed by CNAS, August 13, 2018
		The Certificate Registration Number is L5795.
		The Certificate is valid until August 13, 2024
		The Laboratory has been assessed and proved to be in compliance with ISO17025
		Listed by A2LA, November 01, 2017
		The Certificate Registration Number is 4429.01
		The Certificate is valid until December 31, 2023
		Listed by FCC, November 06, 2017
		Test Firm Registration Number: 907417
		Listed by Industry Canada, June 08, 2017
		The Certificate Registration Number. Is 46405-9743A
Test Site Location	:	Building D, Gaosheng Science and Technology Park, Hongtu Road, Nancheng
		District, Dongguan City, Guangdong Province, China





8. Applicable Standards and References

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

Test Standards:

47 CFR Part 15, Subpart C, 15.231 ANSI C63.10-2013

References Test Guidance:

N/A

9. Deviations and Abnormalities from Standard Conditions

No additions, deviations and exclusions from the standard.

10. Test Conditions

No.	Test Item	Test Mode	Test Voltage	Tested by	Remarks
1.	AC Power Conducted Emission				
2.	Radiated Emission	1	DC 3.0V	Sean	See note 1
3.	Max. Conducted Output Power	1	DC 3.0V	Sean	See note 1
4.	20 dB Occupied bandwidth	1	DC 3.0V	Sean	See note 1
5.	Transmission time	1	DC 3.0V	Sean	See note 1
6.	Antenna Requirement				See note 1

Note:

- 1. The testing climatic conditions for temperature, humidity, and atmospheric pressure are within: 15~35 °C, 30~70%, 86~106kPa
- 2. As the EUT can be operated multiple positions, all X,Y,Z axis were considered during the test and only the worst case X was recorded.



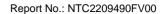


11. Measurement Uncertainty

No.	Test Item	Frequency	Uncertainty	Remarks
1.	Conducted Emission	150KHz ~ 30MHz	±2.52 dB	
		9kHz ~ 30MHz	±2.60 dB	
2	2. Radiated Emission Test	30MHz ~ 1GHz	±4.68 dB	
2.		1GHz ~ 18GHz	±5.14 dB	
		18GHz ~ 40GHz	±5.14 dB	
3.	RF Conducted Test	10Hz ~ 40GHz	±1.06 dB	
4.	Occupied Channel Bandwidth		±1.42 x10-4% MHz	

Note:

- 1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
- 2. The measurement uncertainly levels above are estimated and calculated according to CISPR 16-4-2.
- 3. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.





12. Sample Calculations

Conducted Emission						
Freq. (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector
0.1900	30.10	10.60	40.70	79.00	-38.30	QP

Where,

Freq. = Emission frequency in MHz

Reading Level = Spectrum Analyzer/Receiver Reading

Corrector Factor = Insertion loss of LISN + Cable Loss + RF Switching Unit attenuation

Measurement = Reading + Corrector Factor

Limit = Limit stated in standard

Margin = Measurement - Limit

Detector = Reading for Quasi-Peak / Average / Peak

Radiated Spurious Emissions						
Freq. Reading Level Correct Factor Measurement Limit Over (MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB)						Detector
100.8100	29.18	-7.51	21.67	43.50	-21.83	QP

Where,

Freq. = Emission frequency in MHz

Reading Level = Spectrum Analyzer/Receiver Reading

Corrector Factor = Antenna Factor + Cable Loss - Pre-amplifier

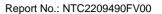
Measurement = Reading + Corrector Factor

Limit = Limit stated in standard

Over = Margin, which calculated by Measurement - Limit

Detector = Reading for Quasi-Peak / Average / Peak

Note: For all conducted test items, the spectrum analyzer offset or transducer is derived from RF cable loss and attenuator factor. The offset or transducer is equal to the RF cable loss plus attenuator factor.





13. Duty Cycle



Total Ton time = Ton 1 x n1 + Ton 2 x n2 ++ Ton n x n = 1.2*10 + 0.36*15=17.4ms

AV Factor = 20log(Duty Cycle).



14. Test Items and Results

14.1 Conducted Emissions Measurement

LIMITS

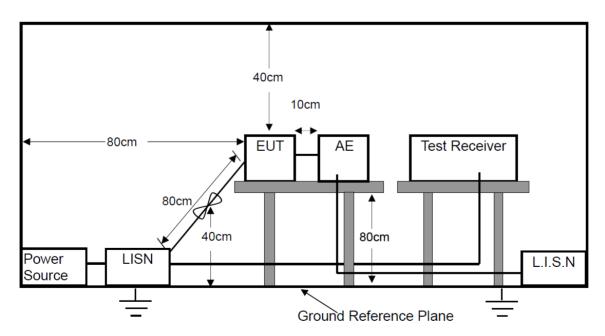
According to the requirements of FCC PART 15.207, the limits are as follows:

Frequency (MHz)	Quasi-peak	Average
0.15 to 0.5	66 to 56	56 to 46
0.5 to 5	56	46
5 to 30	60	50

Note: 1. If the limits for the average detector are met when using the quasi-peak detector, then the limits for the measurements with the average detector are considered to be met.

- 2. The lower limit shall apply at the transition frequencies.
- 3. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5MHz.

BLOCK DIAGRAM OF TEST SETUP







TEST PROCEDURES

- a. The EUT was placed on a wooden table 0.8m height from the metal ground plan and 0.4m from the conducting wall of the shielding room and it was kept at 0.8m from any other grounded conducting surface.
- b. All I/O cables and support devices were positioned as per ANSI C63.10.
- c. Connect mains power port of the EUT to a line impedance stabilization network (LISN).
- d. Connect all support devices to the other LISN and AAN, if needed.
- e. Scan the frequency range from 150KHz to 30MHz at both sides of AC line for maximum conducted interference checking and record the test data.

TEST RESULTS

Not applicable.





14.2 Radiated Spurious Emissions Measurement

LIMITS

Frequency range	Distance Meters	Field Strengths Limit (15.209)		
MHz		μV/m		
0.009 ~ 0.490	300	2400/F(kHz)		
0.490 ~ 1.705	30	24000/F(kHz)		
1.705 ~ 30	30	30		
30 ~ 88	3	100		
88 ~ 216	3	150		
216 ~ 960	3	200		
Above 960	3	500		

- Remark: (1) Emission level (dB) μ V = 20 log Emission level μ V/m
 - (2) The smaller limit shall apply at the cross point between two frequency bands.
 - (3) As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.
 - (4) The frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or 40 GHz, whichever is lower.
 - (5) §15.247(d) specifies that emissions which fall in the restricted bands, as defined in §15.205 comply with radiated emission limits specified in §15.209.





According to 15.231(b), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency (MHz)	Field strength of fundamental (microvolts/ meter)	spurious emissions (microvolts/meter)		
40.66 - 40.70	2250	225		
70 - 130	1250	125		
130 - 174	1250 to 3750*	125 to 375*		
174 - 260	3750	375		
260 - 470	3750 to 12500*	375 to 1250*		
Above 470	12500	1250		

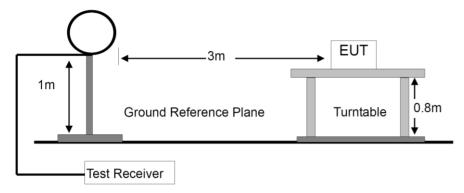
Remark:

- (1) * Linear interpolations
- (2) Emission level (dB) μ V = 20 log Emission level μ V/m
- (3) The smaller limit shall apply at the cross point between two frequency bands.

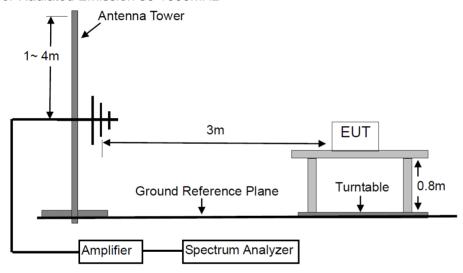


BLOCK DIAGRAM OF TEST SETUP

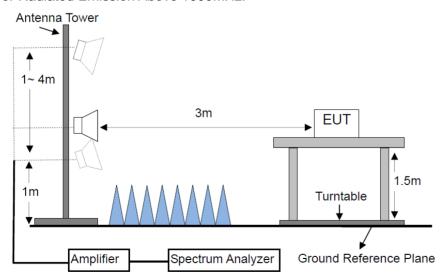
For Radiated Emission below 30MHz



For Radiated Emission 30-1000MHz



For Radiated Emission Above 1000MHz.





TEST PROCEDURES

- a. Below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi- anechoic chamber room.
- b. For the radiated emission test above 1GHz:
 - The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter full anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation. Place the measurement antenna 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 m above the ground or reference ground plane.
- c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to peak detect function and specified bandwidth with maximum hold mode.
- f. A Quasi-peak measurement was then made for that frequency point for below 1GHz test. PK and AV for above 1GHz emission test.





During the radiated emission test, the spectrum analyzer was set with the following configurations:

Frequency Band (MHz)	Detector	Resolution Bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	3 MHz
7.55.5 1000	Average	1 MHz	10 Hz

TEST RESULTS

PASS

Please refer to the following pages.

AVG = Peak + AV Factor,

where Peak is the measurement peak level, and AV Factor is calculated by duty cycle, details see section 13 of the report.

Sample calculation, Peak=63.76dBuV/m, AV Factor= -9.29dB, then AVG=63.76+(-9.29)=54.47dBuV/m.





M/N: FLY 01	Testing Voltage: DC 3.0V		
Polarization: Horizontal	Detector: QP		
Test Mode: TX	Distance: 3m		

Radiated Emission Measurement Date: 2022/11/14 Time: 10:34:53 92.0 dBuV/m 82 72 62 FCC_15.231_4 52 argin -6 dB 42 32 22 12 2 30.0000 127.000 224.000 321.000 418.000 515.000 612.000 709.000 806.000 1000.000 MHz

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
-		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		434.0700	44.10	24.22	68.32			peak	
2		434.0700			59.03	80.80	-21.77	AVG	
3		653.2600	6.04	28.04	34.08	46.00	-11.92	QP	
4		698.7500	6.00	28.89	34.89	46.00	-11.11	QP	
5		756.8200	5.45	29.73	35.18	46.00	-10.82	QP	
6		852.3640	4.64	31.32	35.96	46.00	-10.04	QP	
7	*	868.1400	34.28	31.50	65.78			peak	
8		868.1400			56.49	60.80	-4.31	AVG	

Note: Below 30MHz, the emissions are lower than 20dB below the allowable limit.





M/N: FLY 01	Testing Voltage: DC 3.0V		
Polarization: Vertical	Detector: QP		
Test Mode: TX	Distance: 3m		

Radiated Emission Measurement Date: 2022/11/14 Time: 10:25:19 92.0 dBuV/m 82 72 62 FCC_15.231_4 52 42 32 22 12 2 1000.000 MHz 30.0000 127.000 224.000 321.000 418.000 515.000 612.000 709.000 806.000

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment	
1		434.0700	38.81	23.22	62.03			peak		
2		434.0700			52.74	80.80	-28.06	AVG		
3		632.0500	7.00	27.05	34.05	46.00	-11.95	QP		
4		715.4600	5.44	29.17	34.61	46.00	-11.39	QP		
5		776.9200	5.89	29.99	35.88	46.00	-10.12	QP		
6		825.6400	5.63	30.82	36.45	46.00	-9.55	QP		
7	*	868.1400	26.11	31.50	57.61			peak		
8		868.1400			48.32	60.80	-12.48	AVG		

Note: Below 30MHz, the emissions are lower than 20dB below the allowable limit.





1000.00001400.000

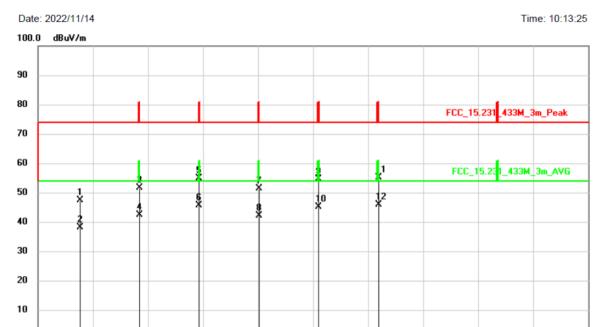
1800.000

2200.000

2600.000

M/N: FLY 01	Testing Voltage: DC 3.0V		
Polarization: Horizontal	Detector: Peak & AVG		
Test Mode: TX	Distance: 3m		

Radiated Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		1302.210	54.93	-7.61	47.32	74.00	-26.68	peak	
2		1302.210	45.64	-7.61	38.03	54.00	-15.97	AVG	
3		1736.280	56.00	-4.31	51.69	80.80	-29.11	peak	
4		1736.280	46.71	-4.31	42.40	60.80	-18.40	AVG	
5		2170.350	55.28	-0.46	54.82	80.80	-25.98	peak	
6		2170.350	45.99	-0.46	45.53	60.80	-15.27	AVG	
7		2604.420	50.70	0.77	51.47	80.80	-29.33	peak	
8		2604.420	41.41	0.77	42.18	60.80	-18.62	AVG	
9		3038.490	52.65	1.86	54.51	80.80	-26.29	peak	
10		3038.490	43.36	1.86	45.22	60.80	-15.58	AVG	
11		3472.560	52.51	2.68	55.19	80.80	-25.61	peak	
12	*	3472.560	43.22	2.68	45.90	60.80	-14.90	AVG	

3000.000

3400.000

3800.000

4200.000

5000.000 MHz

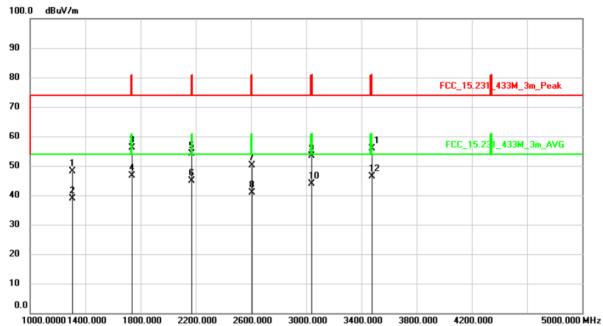




M/N: FLY 01	Testing Voltage: DC 3.0V		
Polarization: Vertical	Detector: Peak & AVG		
Test Mode: TX	Distance: 3m		

Radiated Emission Measurement





No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		1302.210	55.82	-7.61	48.21	74.00	-25.79	peak	
2		1302.210	46.53	-7.61	38.92	54.00	-15.08	AVG	
3		1736.280	60.34	-4.31	56.03	80.80	-24.77	peak	
4	*	1736.280	51.05	-4.31	46.74	60.80	-14.06	AVG	
5		2170.350	54.63	-0.46	54.17	80.80	-26.63	peak	
6		2170.350	45.34	-0.46	44.88	60.80	-15.92	AVG	
7		2604.420	49.29	0.77	50.06	80.80	-30.74	peak	
8		2604.420	40.03	0.77	40.80	60.80	-20.00	AVG	
9		3038.490	51.42	1.86	53.28	80.80	-27.52	peak	
10		3038.490	42.13	1.86	43.99	60.80	-16.81	AVG	
11		3472.560	53.08	2.68	55.76	80.80	-25.04	peak	
12		3472.560	43.79	2.68	46.47	60.80	-14.33	AVG	



14.3 20dB Occupied Bandwidth

LIMITS

According to 15.231(C), the bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70MHz and below 900MHz.

Limit = 434.07MHz*0.25% = 1085.175 KHz

BLOCK DIAGRAM OF TEST SETUP



TEST PROCEDURES

- 1. The output port (antenna) from the transmitter was connected to an attenuator and then to the input of the RF Spectrum analyzer.
- 2. Spectrum analyzer set the corresponding parameters for measurement and record the tested data





TEST RESULTS

PASS

Please refer to the following table.





14.4 Transmission time

LIMITS

15.231 (a) (1) A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

15.231(a) (2) A transmitter activated automatically shall cease transmission within 5seconds after activation.

BLOCK DIAGRAM OF TEST SETUP



TEST PROCEDURES

- 1. The output port (antenna) from the transmitter was connected to an attenuator and then to the input of the RF Spectrum analyzer.
- 2. Spectrum analyzer set the corresponding parameters for measurement and record the tested data.

TEST RESULTS

PASS

Please refer to the following table.





Oct 13, 2022 17:06:08

Frequency (MHz)	Transmission time (sec)	Limit (sec)	Result	
434.07	0.2026	5	PASS	
	Test Ph	oto		
Swept SA KEYSIGHT Input: RF Coupling: DC Coupling: DC	ut Z: 50 Ω Atten: 10 dB PNO: Best Wide rr CCorr Gate: Off	e #Avg Type: Power (RMS 1 2 3 4 5 6 S Avg Hold: 1/1	Marker Marker Marker Marker 1	
Align: Auto Fre Align: Auto Fre 1 Spectrum Scale/Div 10 dB	eq Ref: Int (S) IF Gain: Low Sig Track: Off	P N N N N N	Marker ∆ Time Settings	
Scale/Div 10 dB Log -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 -70.0 -80.0 -90.0	Rei Level 0.00 dBin		Marker Mode Peak Search Normal Pk Search Config Delta (Δ) Properties Fixed Marker Function Marker→	
Center 434.070000 MHz Res BW 100 kHz 5 Marker Table	#Video BW 300 kHz	Span 0 Hz Sweep 30.0 s (1001 pts)	Delta Marker (Reset Delta) Marker Table On Off	
Mode Trace Scale	X Y Function 202.6 ms (Δ)-0.05287 dB 3.067 s -24.79 dBm	Function Width Function Value	Marker Settings Diagram All Markers Off	



14.5 Antenna Requirement

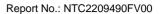
STANDARD APPLICABLE

According to of FCC part 15C section 15.203 and 15.204:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

ANTENNA CONNECTED CONSTRUCTION

The antenna is PCB antenna that no antenna other than furnished by the responsible party shall be used with the device, and the best case gain of the antenna is -0.15dBi, Therefore, the antenna consider meet the requirement.





15. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESCI7	100837	Mar. 13, 2022	1 Year
2.	Antenna	Schwarzbeck	VULB9162	9162-010	Mar. 23, 2022	2 Year
3.	Spectrum Analyzer	Rohde & Schwarz	FSU26	200409/026	Mar. 13, 2022	1 Year
4.	Spectrum Analyzer	Keysight	N9020A	MY54200831	Mar. 13, 2022	1 Year
5.	Spectrum Analyzer	Rohde & Schwarz	FSV40	101094	Mar. 13, 2022	1 Year
6.	Horn Antenna	Schwarzbeck	BBHA9170	9170-172	Mar. 22, 2022	2 Year
7.	Power Sensor	DARE	RPR3006W	15I00041SNO 64	Mar. 13, 2022	1 Year
8.	Communication Tester	Rohde & Schwarz	CMW500	149004	Mar. 13, 2022	1 Year
9.	Horn Antenna	COM-Power	AH-118	071078	Mar. 23, 2022	2 Year
10.	Pre-Amplifier	HP	HP 8449B	3008A00964	Mar. 13, 2022	1 Year
11.	Pre-Amplifier	HP	HP 8447D	1145A00203	Mar. 13, 2022	1 Year
12.	Loop Antenna	Schwarzbeck	FMZB 1513	1513-272	Mar. 23, 2022	2 Year
13.	Test Receiver	Rohde & Schwarz	ESCI	101152	Mar. 14, 2022	1 Year
14.	L.I.S.N	Rohde & Schwarz	ENV 216	101317	Mar. 13, 2022	1 Year
15.	L.I.S.N	Rohde & Schwarz	ESH2-Z5	893606/014	Mar. 13, 2022	1 Year
16.	RF Switching Unit	Compliance Direction Systems Inc.	RSU-M2	38311	Mar.13, 2022	1 Year
17.	Temperature & Humidity Chamber	REMAFEE	SYHR225L	N/A	Mar. 13, 2022	1 Year
18.	DC Source	Maynuo	MY8811	N/A	Mar. 13, 2022	1 Year
19.	Temporary antenna connector	TESCOM	SS402	N/A	N/A	N/A
20.	Chamber	SAEMC	9*7*7m	N/A	Apr. 21, 2021	2 Year
21.	Test Software	EZ	EZ_EMC	N/A	N/A	N/A

Note: For photographs of EUT and measurement, please refer to appendix in separate documents.