

FCC Part 15C Test Report FCC ID: 2AQE4-V020

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Applicant:	Shantou Flying Technology Inc.		
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Manufacturer:	Shantou Flying Technology Inc.		
Address:	Room 406, North 4F, Building No.6, Polyacer E-commerce Industrial Centre, No.283 Nanao Rd, Jinping Industrial, Shantou		
EUT:	RC Bait Boat		
Trade Mark:	N/A		
Model Number:	V020 2011-5, V500, V600, V700, V800, V801, V900, V010, V030, V050, V060, V070, V080, V090, B01, B02, B03, B05, B06, B07, B08, B09, B10, B11, B12, B13, B15, B16, B17, B18, B19, B20, B21, B22, B23, B25, B26, B27, B28, B29, B30, B31, B32, B33, B35, B36, B37, B38, B39, B50, B51, B52, B53, B55, B56, B57, B58, B59, B60, B61, B62, B63, B65, B66, B67, B68, B69, B70, B71, B72, B73, B75, B76, B77, B78, B79, B80, B81, B82, B83, B85, B86, B87, B88, B89, B90, B91, B92, B93, B95, B96, B97, B98, B99, B100		
Date of Receipt:	May. 18, 2023		
Test Date:	May. 18, 2023 - May. 25, 2023		
Date of Report:	May. 25, 2023		
Prepared By:	Shenzhen DL Testing Technology Co., Ltd.		
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Applicable Standards:	FCC PART 15 C 15.249 ANSI C63.10:2013		
Test Result:	Pass		
Report Number:	DL-20230525036E		
Prepared (Test Engi			
Reviewer (Supervise			
Approved (Manager): Jade Yang		

This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen DL Testing Technology Co., Ltd.



Table of Contents	Page
1. SUMMARY OF TEST RESULTS	4
1.1 MEASUREMENT UNCERTAINTY	4
2. GENERAL INFORMATION	5
2.1 GENERAL DESCRIPTION OF EUT	5
2.2 DESCRIPTION OF TEST MODES	6
2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	7
2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)	7
2.5 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING	7
2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS	8
3. EMC EMISSION TEST	9
3.1 CONDUCTED EMISSION MEASUREMENT	9
3.1.1 POWER LINE CONDUCTED EMISSION LIMITS	9
3.1.2 TEST PROCEDURE	9
3.1.3 DEVIATION FROM TEST STANDARD 3.1.4 TEST SETUP	9 10
3.1.5 EUT OPERATING CONDITIONS	10
3.1.6 TEST RESULTS	10
3.2 RADIATED EMISSION MEASUREMENT	11
3.2.1 RADIATED EMISSION LIMITS	11
3.2.2 TEST PROCEDURE 3.2.3 DEVIATION FROM TEST STANDARD	12 12
3.2.4 TEST SETUP	12
3.2.5 EUT OPERATING CONDITIONS	13
3.2.6 TEST RESULTS (BETWEEN 9KHZ – 30 MHZ)	14
3.2.7 TEST RESULTS (BETWEEN 30MHZ – 1GHZ) 3.2.8 TEST RESULTS (1GHZ~25GHZ)	15 17
3.3 RADIATED BAND EMISSION MEASUREMENT	18
3.3.1 TEST REQUIREMENT:	18
3.3.2 TEST PROCEDURE	18
3.3.3 DEVIATION FROM TEST STANDARD	18
3.3.4 TEST SETUP 3.3.5 EUT OPERATING CONDITIONS	19 19
4. BANDWIDTH TEST	21
4.1 APPLIED PROCEDURES / LIMIT 4.1.1 TEST PROCEDURE	21 21
4.1.2 DEVIATION FROM STANDARD	21



Table of Contents	Page
4.1.3 TEST SETUP	21
4.1.4 EUT OPERATION CONDITIONS 4.1.5 TEST RESULTS	21 22
5 . ANTENNA REQUIREMENT	23
5.1 STANDARD REQUIREMENT	23
5.2 EUT ANTENNA	23
6 . TEST SEUUP PHOTO	24
7. EUT PHOTO	25



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.249) , Subpart C					
Standard Section	Test Item	Judgment	Remark		
15.207	Conducted Emission	N/A			
15.205(a), 15.209(a) 15.249(a), 15.249(c)	Fundamental &Radiated Spurious Emission Measurement	PASS			
15.249(d)	Band Edge Emission	PASS			
15.215(c)	20dB Bandwidth	PASS			
15.203	Antenna Requirement	PASS			

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

1.1 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	±2.56dB
2	RF power,conducted	±0.42dB
3	Spurious emissions, conducted	±2.76dB
4	All emissions,radiated(<1G)	±3.65dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product Name:	RC Bait Boat
Trademark	N/A
Model No.:	V020 2011-5, V500, V600, V700, V800, V801, V900, V010, V030, V050, V060, V070, V080, V090, B01, B02, B03, B05, B06, B07, B08, B09, B10, B11, B12, B13, B15, B16, B17, B18, B19, B20, B21, B22, B23, B25, B26, B27, B28, B29, B30, B31, B32, B33, B35, B36, B37, B38, B39, B50, B51, B52, B53, B55, B56, B57, B58, B59, B60, B61, B62, B63, B65, B66, B67, B68, B69, B70, B71, B72, B73, B75, B76, B77, B78, B79, B80, B81, B82, B83, B85, B86, B87, B88, B89, B90, B91, B92, B93, B95, B96, B97, B98, B99, B100
Model Difference	The product's different for model number and appearance color.
Operation Frequency:	2416~2475MHz
Channel numbers:	21 Channels
Channel separation:	1M
Modulation technology:	GFSK
Antenna Type:	Internal Antenna
Antenna gain:	1.08dBi
Power supply:	Remote control: DC 6V from battery Ship: DC 7.4V from battery DC 5V from USB

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2. The EUT's all information provided by client.



Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2416	14	2462
02	2450	15	2463
03	2451	16	2464
04	2452	17	2465
05	2453	18	2466
06	2454	19	2467
07	2455	20	2468
08	2456	21	2475
09	2457	/	/
10	2458	/	/
11	2459	/	/
12	2460	/	/
13	2461	/	/

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description	
Mode 1	CH01	
Mode 2	CH11	GFSK
Mode 3	CH21	
Mode 4	Link Mode	
	For Conducted & Radiated Emission	
Final Test Mode	Description	
Mode 1	CH01	
Mode 2	CH11	GFSK
Mode 3	CH21	
Mode 4	Link Mode	

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) A new fully charged battery was used for testing during the test.

3.



2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test



2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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.

Item	Equipment	Model/Type No.	Series No.	Note
E-1	RC Bait Boat	V020	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note

Note:

(1) For detachable type I/O cable should be specified the length in cm in ^rLength ^l column.

2.5 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

During testing, channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the end product.

Test software Version	Test program: EMI_Test_Tool		
Frequency	2416 MHz	2459 MHz	2475 MHz
Power Setting of Softwave	10	10	10



2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

Padiation test	Band-edge test	t and 20dh ha	ndwidth toot	oquinmont
Radiation test,	Danu-euge les	l anu 2000 ba		equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	Agilent	E4408B	MY50140780	Nov. 06, 2022	Nov. 05, 2023
2	Test Receiver (9kHz-7GHz)	R&S	ESRP7	101393	Nov. 06, 2022	Nov. 05, 2023
3	Bilog Antenna (30MHz-1GHz)	R&S	VULB9162	00306	Nov. 06, 2022	Nov. 05, 2023
4	Horn Antenna (1GHz-18GHz)	Schwarzbeck	BBHA9120D	02139	Nov. 06, 2022	Nov. 05, 2023
5	Horn Antenna (18GHz-40GHz)	A.H. Systems	SAS-574	588	Nov. 06, 2022	Nov. 05, 2023
6	Amplifier (9KHz-6GHz)	Schwarzbeck	BBV9743B	00153	Nov. 06, 2022	Nov. 05, 2023
7	Amplifier (1GHz-18GHz)	EMEC	EM01G8GA	00270	Nov. 06, 2022	Nov. 05, 2023
8	Amplifier (18GHz-40GHz)	Quanjuda	DLE-161	97	Nov. 06, 2022	Nov. 05, 2023
9	Loop Antenna (9KHz-30MHz)	Schwarzbeck	FMZB1519B	00014	Nov. 06, 2022	Nov. 05, 2023
10	RF cables1 (9kHz-1GHz)	ChengYu	966	004	Nov. 06, 2022	Nov. 05, 2023
11	RF cables2 (1GHz-40GHz)	ChengYu	966	003	Nov. 06, 2022	Nov. 05, 2023
12	Antenna connector	Florida RF Labs	N/A	RF 01#	Nov. 06, 2022	Nov. 05, 2023
13	Power probe	KEYSIGHT	U2021XA	MY55210018	Nov. 06, 2022	Nov. 05, 2023
14	Signal Analyzer 9kHz-26.5GHz	Agilent	N9020A	MY55370280	Nov. 06, 2022	Nov. 05, 2023
15	Test Receiver 20kHz-40GHz	R&S	ESU 40	100376	Nov. 06, 2022	Nov. 05, 2023
16	D.C. Power Supply	LongWei	PS-305D	010964729	Nov. 06, 2022	Nov. 05, 2023

Conduction Test equipment

00110								
Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until		
1	843 Shielded Room	ChengYu	843 Room	843	Nov. 25, 2019	Nov. 24, 2022		
2	EMI Receiver	R&S	ESR	101421	Nov. 06, 2022	Nov. 05, 2023		
3	LISN	R&S	ENV216	102417	Nov. 06, 2022	Nov. 05, 2023		
4	843 Cable 1#	ChengYu	CE Cable	001	Nov. 06, 2022	Nov. 05, 2023		

Other

Item	Name	Manufacturer	Model	Software version
1	EMC Conduction Test System	FALA	EZ_EMC	EMC-CON 3A1.1
2	EMC radiation test system	FALA	EZ_EMC	FA-03A2
3	RF test system	MAIWEI	MTS8310	2.0.0.0
4	RF communication test system	MAIWEI	MTS8200	2.0.0.0



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits

(Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Limit (dB	Standard	
	Quasi-peak	Average	Stanuaru
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting	
Attenuation	10 dB	
Start Frequency	0.15 MHz	
Stop Frequency	30 MHz	
IF Bandwidth	9 kHz	

3.1.2 TEST PROCEDURE

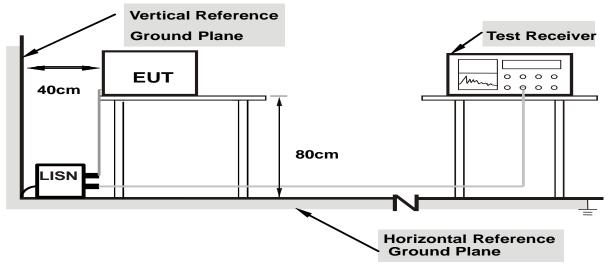
- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. 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.
- c. 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.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

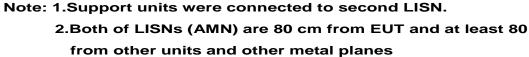
3.1.3 DEVIATION FROM TEST STANDARD

No deviation



3.1.4 TEST SETUP





3.1.5 EUT OPERATING CONDITIONS

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.

3.1.6 TEST RESULTS

The EUT is powered by DC, no requirements for this item.



3.2 RADIATED EMISSION MEASUREMENT 3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequency (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental	Field Strength of Fundamental	Field Strength of Harmonics	
Frequency	(millivolts/meter)	(microvolts/meter)	
902 - 928 MHz	50	500	
2400 - 2483.5 MHz	50	500	
5725 - 5875 MHz	50	500	
24.0 - 24.25 GHz	250	2500	

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

	Limit (dBuV/m) (at 3M)		
FREQUENCY (MHz)	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

Receiver setup:

Frequency	Detector	RBW	VBW	Value			
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak			
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak			
30MHz-1GHz	Iz-1GHz Quasi-peak		300KHz	Quasi-peak			
Above 1GHz	Peak	1MHz	3MHz	Peak			
Above TGHZ	Peak	1MHz	10Hz	Average			



3.2.2 TEST PROCEDURE

Below 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height 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.
- d. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

- g. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. (Above 18GHz the distance is 3 meter and table is 1.5 metre).
- h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel Note:

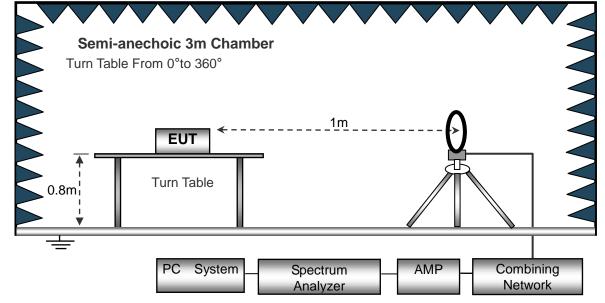
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD

No deviation

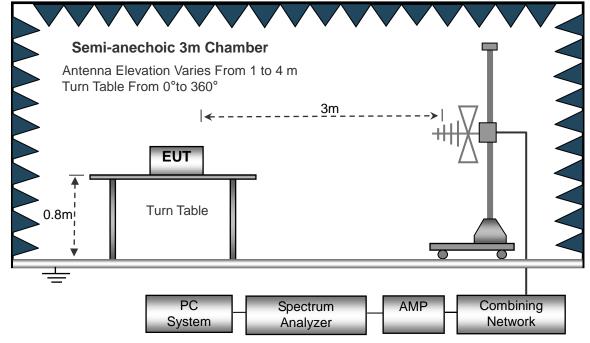
3.2.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz

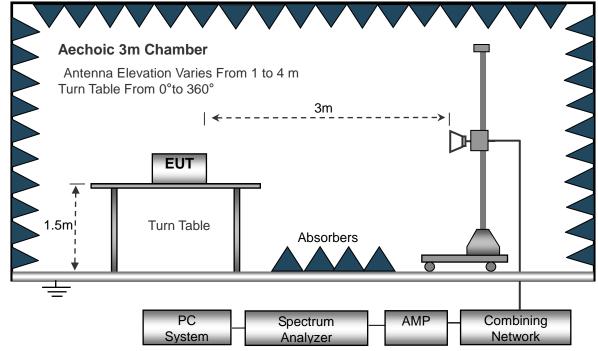




(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



3.2.6 TEST RESULTS (BETWEEN 9KHZ - 30 MHZ)

Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 6V
Test Mode :	Mode 4	Polarization :	

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				PASS
				PASS

NOTE:

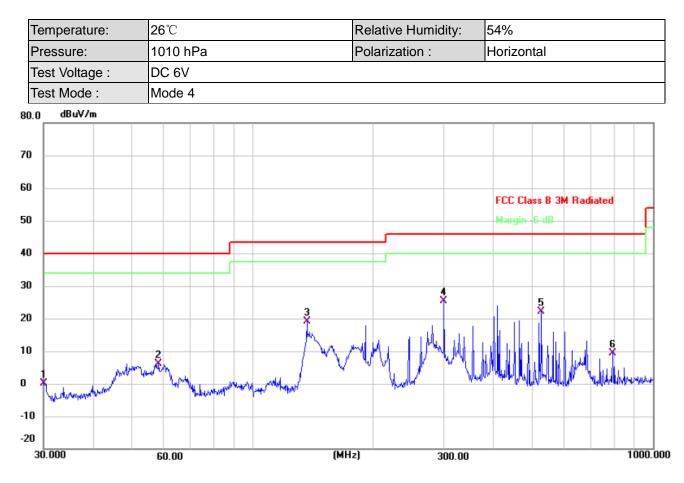
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



3.2.7 TEST RESULTS (BETWEEN 30MHZ - 1GHZ)



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		30.1054	16.26	-16.02	0.24	40.00	-39.76	QP
2		58.2030	18.90	-12.79	6.11	40.00	-33.89	QP
3		136.4598	36.26	-17.24	19.02	43.50	-24.48	QP
4	*	300.3672	36.75	-11.41	25.34	46.00	-20.66	QP
5		526.3967	29.19	-7.17	22.02	46.00	-23.98	QP
6		793.3960	11.68	-2.35	9.33	46.00	-36.67	QP

Remark:

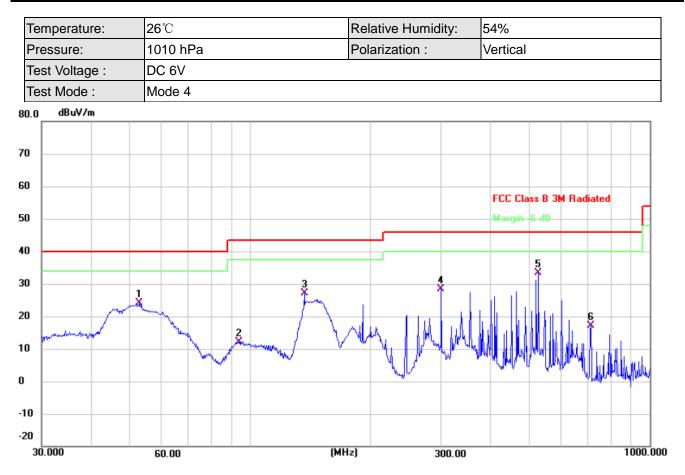
Correct Factor = Cable loss + Antenna factor – Preamplifier;

Level = Reading Level + Correct Factor; Margin = Level - Limit;



Shenzhen DL Testing Technology Co., Ltd.

Report No.: DL-20230525036E



No.	Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		52.7600	37.27	-13.08	24.19	40.00	-15.81	QP
2		93.7685	29.03	-16.84	12.19	43.50	-31.31	QP
3		136.4598	44.49	-17.24	27.25	43.50	-16.25	QP
4		300.3672	39.79	-11.41	28.38	46.00	-17.62	QP
5	*	526.3967	40.43	-7.17	33.26	46.00	-12.74	QP
6		711.6734	20.82	-3.69	17.13	46.00	-28.87	QP

Remark:

Correct Factor = Cable loss + Antenna factor – Preamplifier;

Level = Reading Level + Correct Factor; Margin = Level - Limit;



3.2.8 TEST RESULTS (1GHZ~25GHZ)

GFSK

Polar	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Туре
	ſ		ор	eration f	requency:2	2416			
V	2416.00	113.26	52.16	2.78	27.41	91.29	114	-22.71	PK
V	2416.00	103.17	52.16	2.78	27.41	81.2	94	-12.8	AV
V	4832.00	77.55	51.74	3.08	31.25	60.14	74	-13.86	PK
V	4832.00	60.19	51.74	3.08	31.25	42.78	54	-11.22	AV
V	16912.00	54.21	51.56	7.36	41.57	51.58	74	-22.42	PK
Н	2416.00	112.64	52.16	2.78	27.41	90.67	114	-23.33	PK
Н	2416.00	105.13	52.16	2.78	27.41	83.16	94	-10.84	AV
Н	4832.00	76.45	51.74	3.08	31.25	59.04	74	-14.96	PK
Н	4832.00	59.37	51.74	3.08	31.25	41.96	54	-12.04	AV
Н	16912.00	55.35	51.56	7.36	41.57	52.72	74	-21.28	PK
			ор	eration f	requency:2	2459			
V	2459.00	112.56	52.11	2.82	27.47	90.74	114	-23.26	PK
V	2459.00	105.18	52.11	2.82	27.47	83.36	94	-10.64	AV
V	4918.00	77.64	51.77	3.03	31.34	60.24	74	-13.76	PK
V	4918.00	60.23	51.77	3.03	31.34	42.83	54	-11.17	AV
V	17213.00	54.18	51.56	7.36	41.57	51.55	74	-22.45	PK
Н	2459.00	112.64	52.11	2.82	27.47	90.82	114	-23.18	PK
Н	2459.00	104.66	52.11	2.82	27.47	82.84	94	-11.16	AV
Н	4918.00	76.17	51.77	3.03	31.34	58.77	74	-15.23	PK
Н	4918.00	59.52	51.77	3.03	31.34	42.12	54	-11.88	AV
Н	17213.00	55.36	51.56	7.36	41.57	52.73	74	-21.27	PK
			ор	eration f	requency:2	2475			
V	2475.00	113.38	52.23	2.86	27.44	91.45	114	-22.55	PK
V	2475.00	106.25	52.23	2.86	27.44	84.32	94	-9.68	AV
V	4950.00	78.26	51.69	3.05	31.39	61.01	74	-12.99	PK
V	4950.00	60.97	51.69	3.05	31.39	43.72	54	-10.28	AV
V	17325.00	54.54	51.56	7.36	41.57	51.91	74	-22.09	PK
Н	2475.00	113.16	52.23	2.86	27.44	91.23	114	-22.77	PK
Н	2475.00	105.28	52.23	2.86	27.44	83.35	94	-10.65	AV
Н	4950.00	77.35	51.69	3.05	31.39	60.1	74	-13.9	PK
Н	4950.00	59.86	51.69	3.05	31.39	42.61	54	-11.39	AV
Н	17325.00	54.37	51.56	7.36	41.57	51.74	74	-22.26	PK

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss - Pre-amplifier,

Margin= Emission Level - Limit

2. If peak below the average limit, the average emission was no test.

3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



3.3 RADIATED BAND EMISSION MEASUREMENT 3.3.1 TEST REQUIREMENT:

FCC Part15 C Section 15.209 and 15.205

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

	Limit (dBuV/m) (at 3M)		
FREQUENCY (MHz)	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	2300MHz
Stop Frequency	2520
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

3.3.2 TEST PROCEDURE

Above 1GHz test procedure as below:

- a. 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height 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.
- d. 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 rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the Highest channel

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

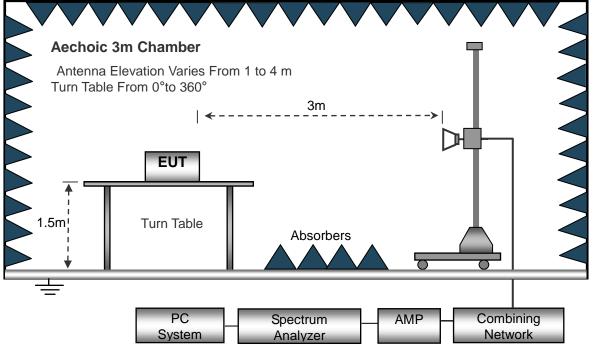
3.3.3 DEVIATION FROM TEST STANDARD

No deviation



3.3.4 TEST SETUP





3.3.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



3.3.6 TEST RESULT

GFSK

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
(10, 4)	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	туре
			ор	eration f	requency:2	2416		-	
V	2390.00	76.18	52.12	2.73	27.38	54.17	74	-19.83	PK
V	2390.00	65.56	52.12	2.73	27.38	43.55	54	-10.45	AV
V	2400.00	76.52	52.16	2.78	27.41	54.55	74	-19.45	PK
V	2400.00	64.21	52.16	2.78	27.41	42.24	54	-11.76	AV
Н	2390.00	76.59	52.12	2.73	27.38	54.58	74	-19.42	PK
Н	2390.00	65.35	52.12	2.73	27.38	43.34	54	-10.66	AV
Н	2400.00	76.13	52.16	2.78	27.41	54.16	74	-19.84	PK
Н	2400.00	65.34	52.16	2.78	27.41	43.37	54	-10.63	AV

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
· · /	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
			ор	eration f	requency:2	2475		-	
V	2483.50	76.65	52.23	2.86	27.44	54.72	74	-19.28	PK
V	2483.50	65.26	52.23	2.86	27.44	43.33	54	-10.67	AV
V	2500.00	76.17	52.26	2.88	27.49	54.28	74	-19.72	PK
V	2500.00	64.34	52.26	2.88	27.49	42.45	54	-11.55	AV
Н	2483.50	76.29	52.23	2.86	27.44	54.36	74	-19.64	PK
Н	2483.50	65.48	52.23	2.86	27.44	43.55	54	-10.45	AV
Н	2500.00	76.25	52.26	2.88	27.49	54.36	74	-19.64	PK
Н	2500.00	65.46	52.26	2.88	27.49	43.57	54	-10.43	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss - Pre-amplifier,

Margin= Emission Level - Limit

2. If peak below the average limit, the average emission was no test.

3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



4. BANDWIDTH TEST

4.1 APPLIED PROCEDURES / LIMIT

	FCC Part15 (15.215), Subpart C				
Section	Test Item				
15.215	Bandwidth				

4.1.1 TEST PROCEDURE

- 1. Set RBW = 30 kHz.
- 2. Set the video bandwidth (VBW) ≥RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.

7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP



4.1.4 EUT OPERATION CONDITIONS

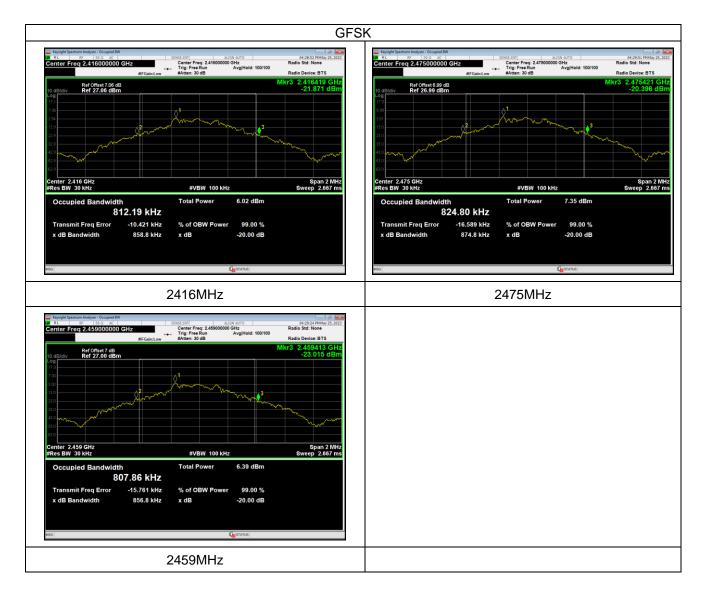
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



4.1.5 TEST RESULTS

Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 6V
Test Mode :	TX Mode /CH01, CH11, CH21		

	Frequency (MHz)	20dB Bandwidth (MHz)	Result
	2416	0.859	Pass
GFSK	2459	0.857	Pass
	2475	0.875	Pass





5. ANTENNA REQUIREMENT

5.1 STANDARD REQUIREMENT

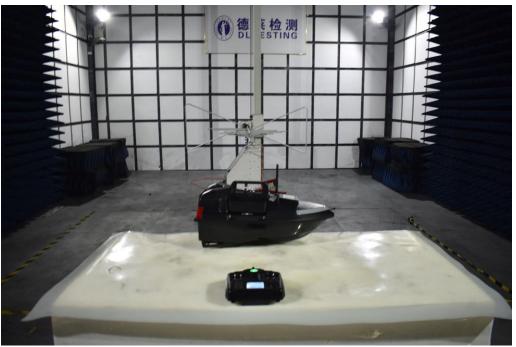
15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

5.2 EUT ANTENNA

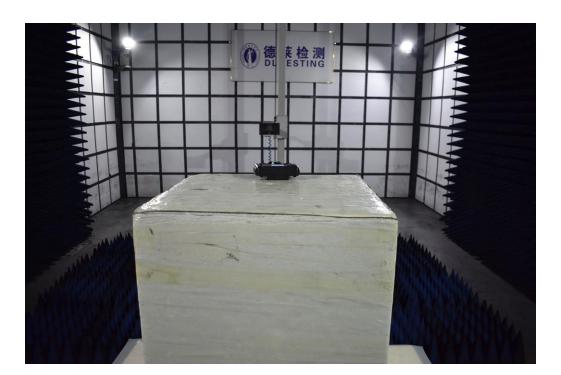
The EUT antenna is Internal Antenna, It comply with the standard requirement.



6. TEST SEUUP PHOTO



Radiated Measurement Photos





7. EUT PHOTO







Shenzhen DL Testing Technology Co., Ltd.







Shenzhen DL Testing Technology Co., Ltd.











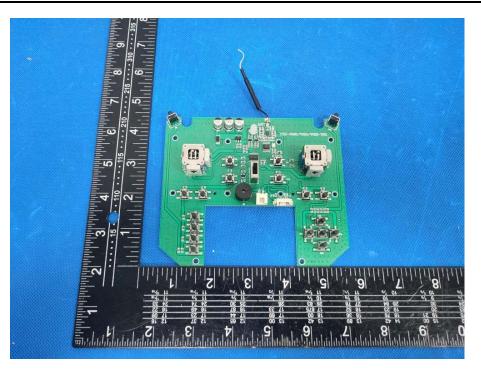


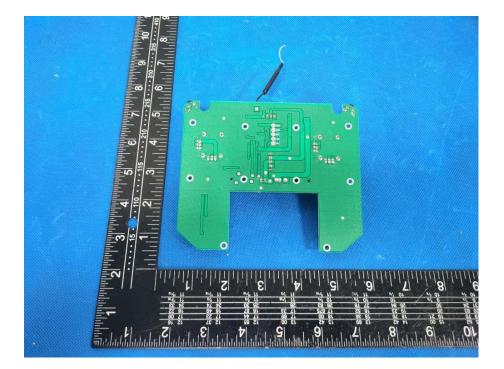






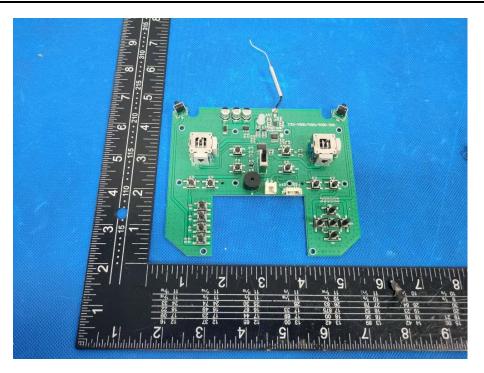
Shenzhen DL Testing Technology Co., Ltd.

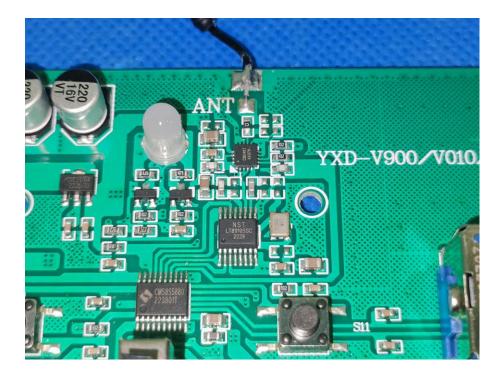






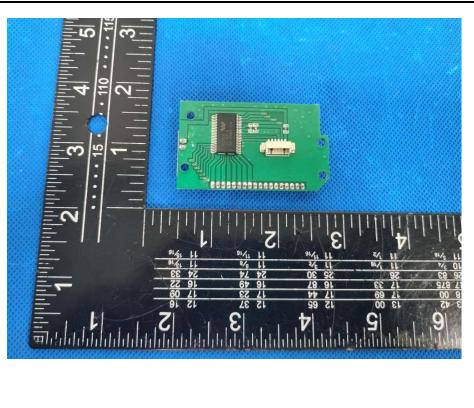
Shenzhen DL Testing Technology Co., Ltd.

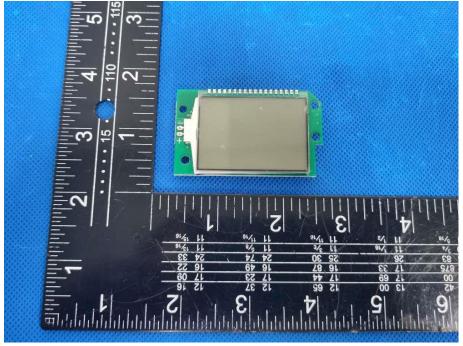






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******* END OF REPORT ******