



RF TEST REPORT

Product Name: UNMANNED SURFACE VEHICLE

Model Number: SPCraft6, SPCraft5

FCC ID: 2BMDI-SPCRAFT6

Issued For : Guangzhou Sphrefix Navigation Technology Co., Ltd
No.201, Kezhu Road, Room 311, Huangpu District,
Guangzhou, China

Issued By : Shenzhen LGT Test Service Co., Ltd.
Room 205, Building 13, Zone B, Zhenxiong Industrial Park,
No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan
District, Shenzhen, Guangdong, China

Report Number: LGT26C047RF07

Sample Received Date: Mar. 06, 2026

Date of Test: Mar. 06, 2026 ~ Jul. 16, 2026

Date of Issue: Jul. 16, 2026

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TEST REPORT CERTIFICATION

Applicant: Guangzhou Sphrefix Navigation Technology Co., Ltd
Address: No.201, Kezhu Road, Room 311, Huangpu District, Guangzhou, China
Manufacturer: Guangzhou Sphrefix Navigation Technology Co., Ltd
Address: No.201, Kezhu Road, Room 311, Huangpu District, Guangzhou, China
Product Name: UNMANNED SURFACE VEHICLE
Trademark: SPHEREFIX
Model Number: SPCraft6, SPCraft5
Sample Status: Normal

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC Part 15.249, Subpart C ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024	PASS

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Revision History

Rev.	Issue Date	Revisions
00	Jul. 16, 2026	Initial Issue



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part 15.249, Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	N/A	--
15.249	Radiated Spurious Emission	PASS	--
15.205	Restricted Band Edge Emission	PASS	--
15.215	20dB Bandwidth	PASS	--
15.203	Antenna Requirement	PASS	--

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report.
- (2) All tests are according to ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024.



1.1 TEST LABORATORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China
Accreditation Certificate:	FCC Registration No.: 746540
	CAB ID: CN0136

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded 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	Occupied Channel Bandwidth	$\pm 0.46\%$
2	RF Output Power, Conducted	$\pm 0.71\text{dB}$
3	Power Spectral Density, Conducted	$\pm 1.57\text{dB}$
4	Unwanted Emission, Conducted	$\pm 0.63\text{dB}$
5	Conducted emission	$\pm 2.80\text{dB}$
6	All Emissions, Radiated (0.009-30MHz)	$\pm 2.16\text{dB}$
7	All Emissions, Radiated (30MHz-1GHz)	$\pm 4.61\text{dB}$
8	All Emissions, Radiated (1GHz-18GHz)	$\pm 5.49\text{dB}$
9	All Emissions, Radiated (18GHz-40GHz)	$\pm 4.31\text{dB}$

Note: The measurement uncertainty is not included in the test result.



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	UNMANNED SURFACE VEHICLE		
Test Model Number:	SPCraft6		
Series Number:	SPCraft5		
Model Difference:	1. Dimensional differences (SPCraft5 model: 980*520*254mm, SPCraft6 model: 1280*580*430mm) 2. Number of network ports: (SPCraft5 model comes standard with a single network port, SPCraft6 model comes standard with dual network ports)		
Product Description:			
	Operation Frequency:	5730~5840MHz	
	Modulation Type:	DSSS, OFDM	
	Number Of Channel:	6CH	
	Antenna Type:	Dipole Antenna	
	Antenna Gain (dBi):	3dBi	
Adapter:	Input: AC 100-240V 50/60Hz 5A Output: DC 33.6V 12.5A		
Battery:	Capacity: 25mAh Rated Voltage: 29.6V		
Hardware Version:	N/A		
Software Version:	N/A		
Connecting I/O Port(s):	Please refer to the Note 1.		

Note:

- For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
- The antenna information refers to the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.

Channel List			
Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	5730	4	5800
2	5750	5	5820
3	5780	6	5840



2.2 DESCRIPTION OF THE TEST MODES

For conducted test items and radiated spurious emissions

Each of these EUT operation mode(s) or test configuration mode(s) mentioned below was evaluated respectively.

Worst Mode	Description	Data/Modulation
Mode 1	TX CH01(5730MHz)	OFDM
Mode 2	TX CH04(5800MHz)	OFDM
Mode 3	TX CH06(5840MHz)	OFDM

Note:

(1) All above mode has been measurement, only worst data was reported.

(2) We have be tested for all available U.S. voltage and frequency (For 120V,50/60Hz and 240V, 50/60Hz) for which the device is capable of operation, and the worst case of 120V/60Hz is shown in the report.

2.3 TEST SOFTWARE AND POWER LEVEL

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

Test software Version	Test program: 5.8G_SRD	
Artosyn 8030 PC Tool	Mode Or Modulation type	Power setting
	2M	12



2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

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.

Accessories Equipment

Description	Manufacturer	Model	S/N	Rating
Adapter	Dongguan Xiongtao Technology Co., Ltd.	Y500 BATTERY CHARGER	N/A	Input: 100-240V 50/60Hz 5A Output: 33.6V 12.5A
Remote control	N/A	N/A	N/A	N/A

Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (2) “YES” means “with core”; “NO” means “without core”.



2.5 EQUIPMENTS LIST

Conducted Emission					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESCI	100458	2026-04-21	2027-04-20
LISN	COM-POWER	LI-115	02032	2026-03-03	2027-03-02
LISN	SCHWARZBECK	NNLK 8122	00160	2026-03-03	2027-03-02
Transient Limiter	CYBERTEK	EM5010A	E2250100049	2026-03-03	2027-03-02
Coaxial cables (9kHz-30MHz)	Juncoax	JMR600 -NMNM-2M	N.A	2026-03-03	2027-03-02
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2026-03-05	2027-03-04
Testing Software	EMC-I_V1.5.0.16_SKET				

Radiated Test equipment					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2026-03-02	2027-03-01
Active loop Antenna	ETS	6502	00049544	2025-03-11	2028-03-10
Spectrum Analyzer	Keysight	N9010B	MY60242508	2026-03-03	2027-03-02
Trilog Broadband Antenna (30M-1G)	SCHWARZBECK	VULB 9168	2705	2024-05-17	2027-05-16
Horn Antenna(1-18G)	SCHWARZBECK	3115	10SL0060	2025-03-10	2028-03-09
Horn Antenna(18-40G)	SCHWARZBECK	BBHA 9170	685	2023-10-23	2026-10-22
Pre-amplifier(30M-1G)	EMtrace	RP01A	02019	2026-03-02	2027-03-01
Pre-amplifier(1-26.5G)	Agilent	8449B	3008A4722	2026-03-02	2027-03-01
Pre-amplifier(18-40G)	SCHWARZBECK	BBV 9721	9721-019	2025-10-20	2026-10-19
Coaxial cables (9kHz-1GHz)	Juncoax	JMR600 -NMNM-8M	N.A	2026-03-03	2027-03-02
Coaxial cables (1GHz-18GHz)	TaiHe	UCD460B -NMSM-1M9	N.A	2026-03-03	2027-03-02
Coaxial cables (18GHz-40GHz)	Junkosha Inc.	MWX241 -05000KMSKMS	N.A	2026-03-03	2027-03-02
Temperature& Humidity test chamber	AISRY	LX-1000L	171200018	2025-07-30	2026-07-29
Antenna Tower	SAEMC	BK-4AT-BS-D	SK2021093008	N.A	N.A
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2026-03-05	2027-03-04
Testing Software	EMC-I_V1.5.0.16_SKET				

RF Conducted Test equipment					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
Signal Analyzer	Keysight	N9020A	MY50530994	2026-03-03	2027-03-02
Power Sensor	R&S	NRP8S	104963	2026-03-02	2027-03-01
RF Automatic Test system	TST	TST PASS	293	2025-07-15	2026-07-14
MXG Vector Signal Generator	Keysight	N5182B	MY59100717	2026-03-03	2027-03-02
Temperature& Humidity test chamber	AISRY	LX-1000L	171200018	2025-07-30	2026-07-29
Attenuator	eastsheep	90db	N.A	2026-03-02	2027-03-01
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2026-03-05	2027-03-04
Digital multimeter	MASTECH	MS8261	MBGBC83053	2025-07-30	2026-07-29



DC source	Keysight	E3634A	MY58036468	2026-03-05	2027-03-04
Testing Software	TST Pass_2.0.2				



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

The radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table.

FREQUENCY (MHz)	Conducted Emission limit (dBuV)	
	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

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

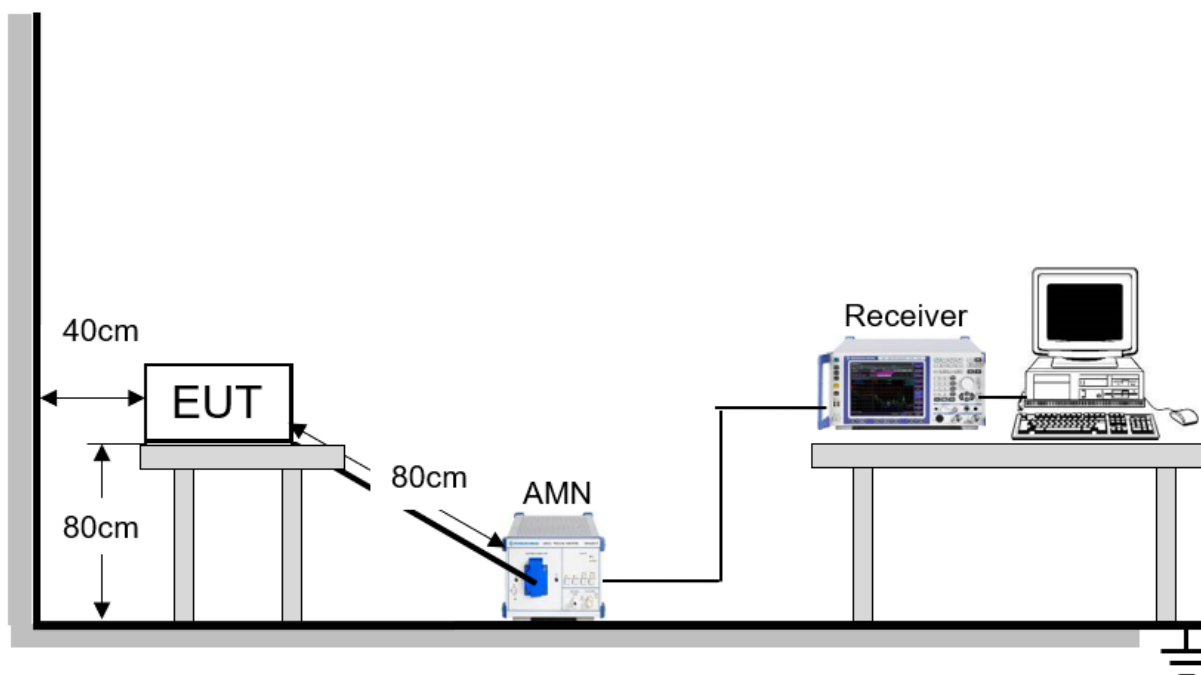
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



3.2 TEST PROCEDURE

- The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 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.
- 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.
- LISN is at least 80 cm from the nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.3 TEST SETUP



3.4 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.

3.5 TEST RESULTS

N/A



4. RADIATED EMISSION MEASUREMENT

4.1 RADIATED EMISSION LIMITS

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on Part 15.249, Part 15.209(a) limit in the table below has to be followed.

Standard FCC 15.209

Frequencies (MHz)	Field Strength (micovolts/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
960~1000	500	3
Above 1000	Other:74.0 dB(μ V)/m (Peak) 54.0 dB(μ V)/m (Average)	3

Standard FCC 15.249

Frequency of Emission (MHz)	Field Strength of fundamental (millivolts /meter)	Field Strength of Harmonics (microvolts/meter)
900~928	50	500
2400~2483.5	50	500
5725~5875	50	500
24000~242500	250	2500

Notes:

- (1) 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 Section 15.209, whichever is the lesser attenuation.

Spectrum Parameter	Setting
Detector	Peak/AV
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB (emission in restricted band)	>20BW
VB (emission in restricted band)	=3xRB



Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
	90kHz~110kHz / RB 200Hz for QP
	110kHz~490kHz / RB 200Hz for PK & AV
	490kHz~30MHz / RB 9kHz for QP
	30MHz~1000MHz / RB 120kHz for QP

4.2 TEST PROCEDURE

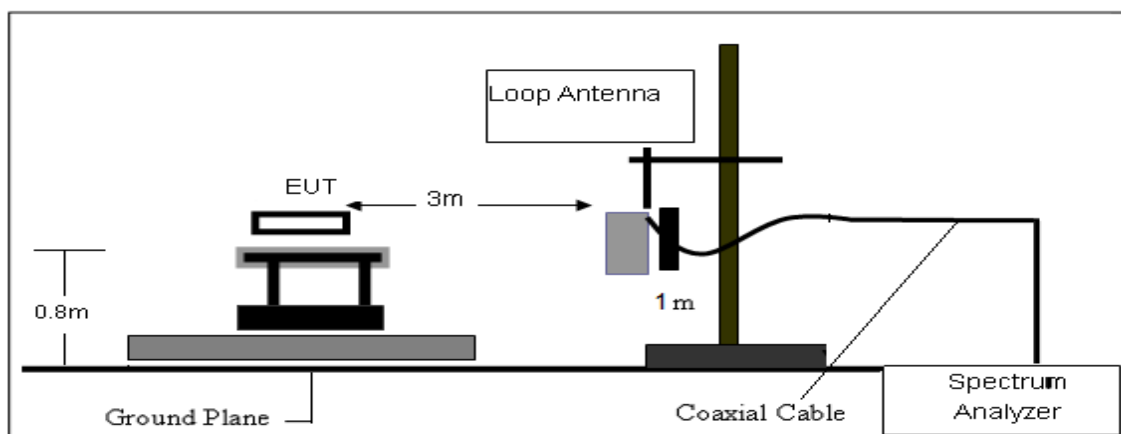
- The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
- The height of the equipment shall be 0.8 m(above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarization of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and QuasiPeak detector mode will be re-measured.
- If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

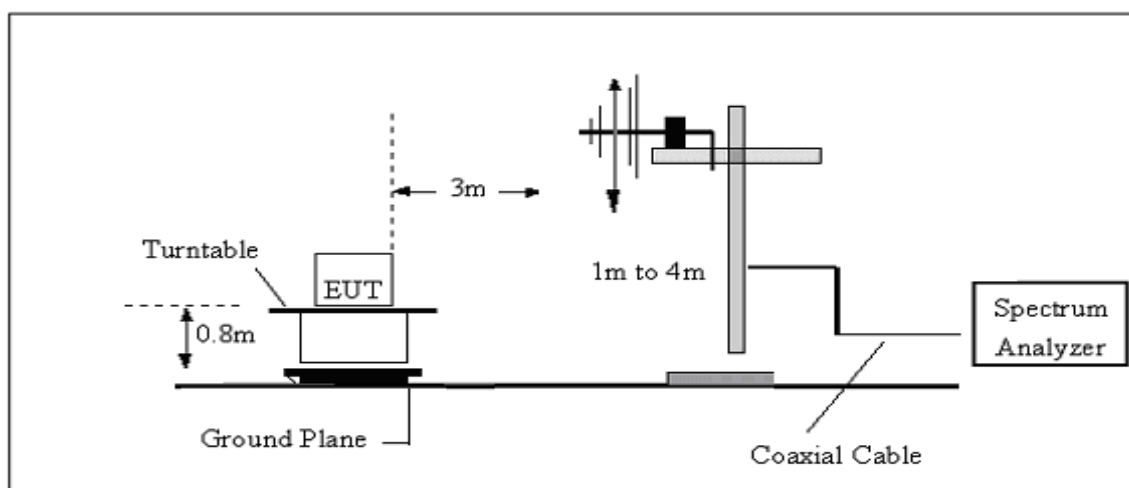
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

4.3 TEST SETUP

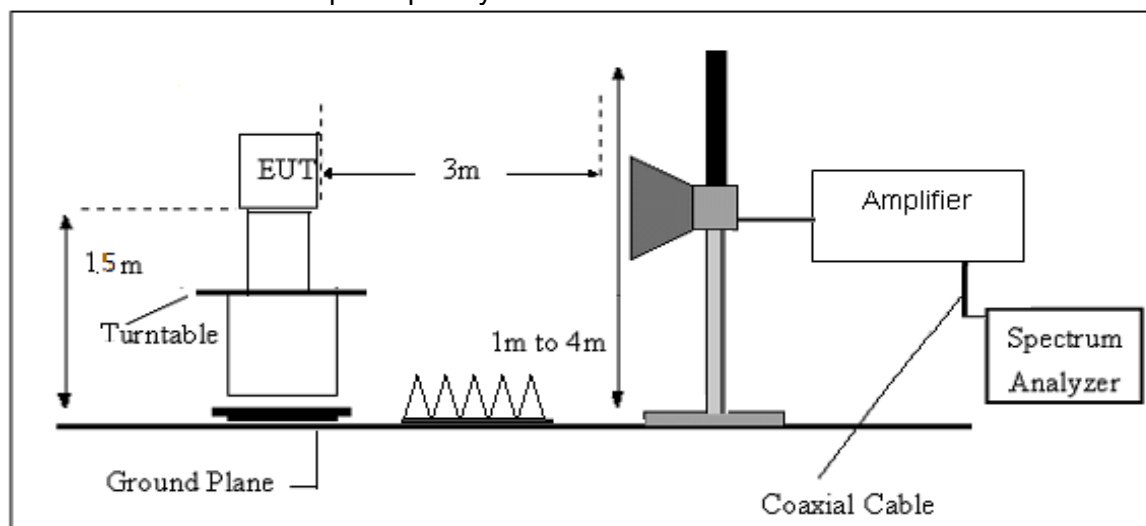
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



4.4 EUT OPERATING CONDITIONS

Please refer to section 3.4 of this report.



4.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

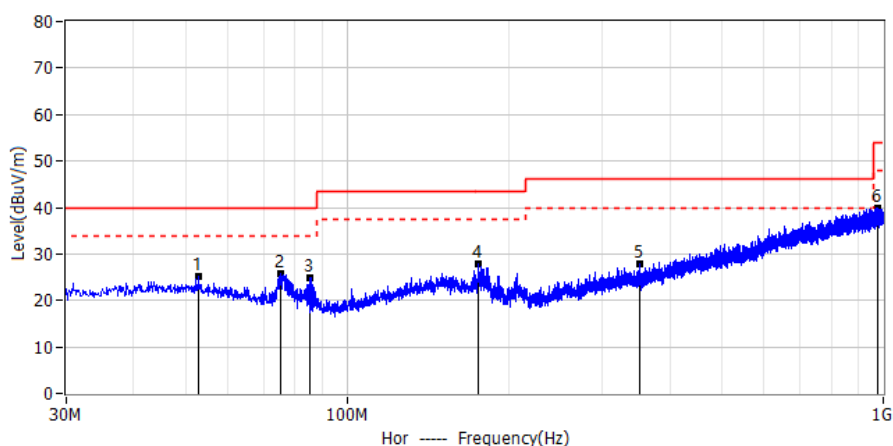
Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBμV/m)	(dBμV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

$$\text{Factor} = \text{AF} + \text{CL} - \text{AG}$$

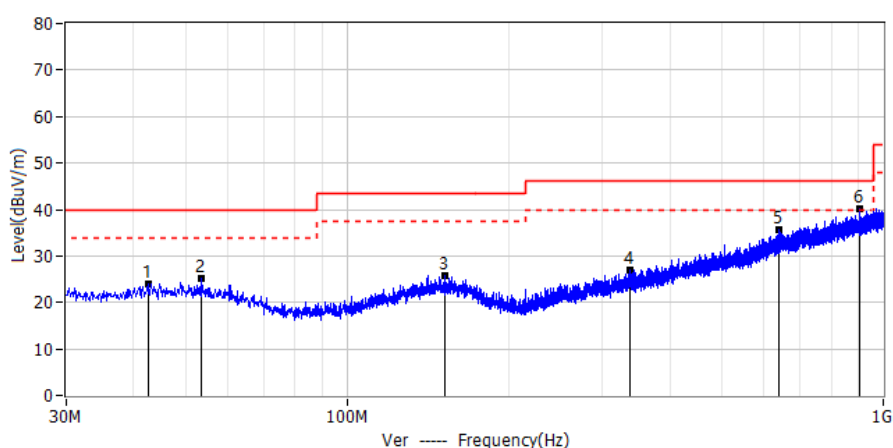


4.6 TEST RESULTS

Project: LGT26C047	Test Engineer: zhangyangda
EUT: UNMANNED SURFACE VEHICLE	Temperature: 25.7°C
M/N: SPCraft6	Humidity: 49%RH
Test Voltage: Battery	Test Data: 2026-03-12
Test Mode: TX 5.8G	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	52.916	4.28	20.95	25.23	40.00	-14.77	QP	Hor
2*	75.469	8.89	16.88	25.77	40.00	-14.23	QP	Hor
3*	85.169	8.50	16.47	24.97	40.00	-15.03	QP	Hor
4*	175.985	7.69	20.07	27.76	43.50	-15.74	QP	Hor
5*	351.798	4.46	23.35	27.81	46.00	-18.19	QP	Hor
6*	975.508	4.99	35.00	39.99	54.00	-14.01	QP	Hor



No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	42.610	3.11	20.95	24.06	40.00	-15.94	QP	Ver
2*	53.401	4.36	20.82	25.18	40.00	-14.82	QP	Ver
3*	152.341	4.00	21.78	25.78	43.50	-17.72	QP	Ver
4*	336.763	3.54	23.47	27.01	46.00	-18.99	QP	Ver
5*	640.615	5.39	30.37	35.76	46.00	-10.24	QP	Ver
6*	905.910	5.69	34.38	40.07	46.00	-5.93	QP	Ver



Above 1G Radiation Spurious

Frequency (MHz)	Reading (dBμV)	Corrected Factor (dB)	Result (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector	Polarity
Low Channel (5730 MHz)							
3988.52	52.74	-6.89	45.85	74.00	-28.15	PK	Vertical
3988.52	42.74	-6.89	35.85	54.00	-18.15	AV	Vertical
3986.18	53.43	-6.89	46.54	74.00	-27.46	PK	Horizontal
3986.18	42.90	-6.89	36.01	54.00	-17.99	AV	Horizontal
8918.34	53.92	-3.80	50.12	68.20	-18.08	PK	Vertical
8918.34	44.14	-3.80	40.34	54.00	-13.66	AV	Vertical
8915.29	53.53	-3.80	49.73	68.20	-18.47	PK	Horizontal
8915.29	43.84	-3.80	40.04	54.00	-13.96	AV	Horizontal
11451.00	55.56	-2.92	52.64	74.00	-21.36	PK	Vertical
11451.00	44.21	-2.92	41.29	54.00	-12.71	AV	Vertical
11455.85	56.40	-2.92	53.48	74.00	-20.52	PK	Horizontal
11455.85	45.06	-2.92	42.14	54.00	-11.86	AV	Horizontal
13294.96	53.82	-0.35	53.47	74.00	-20.53	PK	Vertical
13294.96	43.66	-0.35	43.31	54.00	-10.69	AV	Vertical
13289.39	53.61	-0.35	53.26	74.00	-20.74	PK	Horizontal
13289.39	44.24	-0.35	43.89	54.00	-10.11	AV	Horizontal
Mid Channel (5800 MHz)							
3984.92	52.39	-6.89	45.50	74.00	-28.50	PK	Vertical
3984.92	42.33	-6.89	35.44	54.00	-18.56	AV	Vertical
3994.05	52.34	-6.89	45.45	74.00	-28.55	PK	Horizontal
3994.05	43.03	-6.89	36.14	54.00	-17.86	AV	Horizontal
8919.86	53.38	-3.80	49.58	68.20	-18.62	PK	Vertical
8919.86	44.26	-3.80	40.46	54.00	-13.54	AV	Vertical
8919.55	53.47	-3.80	49.67	68.20	-18.53	PK	Horizontal
8919.55	44.07	-3.80	40.27	54.00	-13.73	AV	Horizontal
11593.62	55.79	-2.92	52.87	74.00	-21.13	PK	Vertical
11593.62	44.87	-2.92	41.95	54.00	-12.05	AV	Vertical
11593.26	56.39	-2.92	53.47	74.00	-20.53	PK	Horizontal
11593.26	45.20	-2.92	42.28	54.00	-11.72	AV	Horizontal
13297.39	54.29	-0.35	53.94	74.00	-20.06	PK	Vertical
13297.39	44.03	-0.35	43.68	54.00	-10.32	AV	Vertical
13286.48	54.95	-0.35	54.60	74.00	-19.40	PK	Horizontal
13286.48	44.35	-0.35	44.00	54.00	-10.00	AV	Horizontal
High Channel (5840 MHz)							
3992.35	52.60	-6.89	45.71	74.00	-28.29	PK	Vertical



3992.35	43.13	-6.89	36.24	54.00	-17.76	AV	Vertical
3991.08	52.71	-6.89	45.82	74.00	-28.18	PK	Horizontal
3991.08	42.28	-6.89	35.39	54.00	-18.61	AV	Horizontal
8921.66	53.21	-3.80	49.41	68.20	-18.79	PK	Vertical
8921.66	43.74	-3.80	39.94	54.00	-14.06	AV	Vertical
8924.07	53.21	-3.80	49.41	68.20	-18.79	PK	Horizontal
8924.07	43.90	-3.80	40.10	54.00	-13.90	AV	Horizontal
11673.26	55.35	-2.92	52.43	74.00	-21.57	PK	Vertical
11673.26	45.34	-2.92	42.42	54.00	-11.58	AV	Vertical
11680.05	55.14	-2.92	52.22	74.00	-21.78	PK	Horizontal
11680.05	44.03	-2.92	41.11	54.00	-12.89	AV	Horizontal
13282.65	54.75	-0.35	54.40	74.00	-19.60	PK	Vertical
13282.65	44.21	-0.35	43.86	54.00	-10.14	AV	Vertical
13294.21	54.47	-0.35	54.12	74.00	-19.88	PK	Horizontal
13294.21	44.48	-0.35	44.13	54.00	-9.87	AV	Horizontal

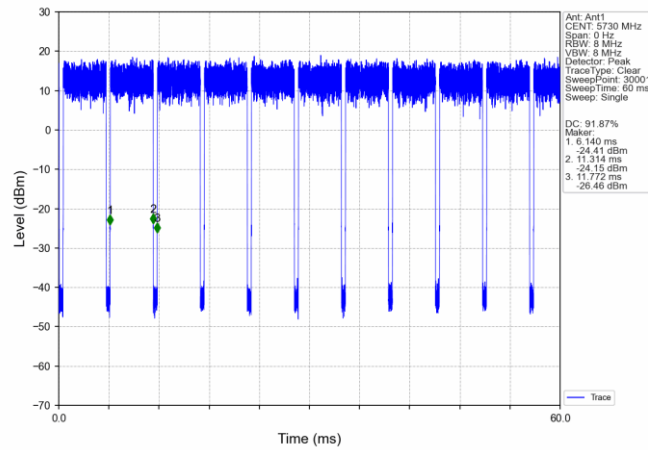
Note:1.In frequency ranges 18~40GHz no any other harmonic emissions detected which are tested to compliance with the limit. No recording in the test report. No any other emissions level which are attenuated less than 20dB below the limit. No recording in the test report.

Average measurement was not performed if peak level lower than average limit. No any other emissions level which are attenuated less than 20dB below the limit. The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part. Hence there no other emissions have been reported.

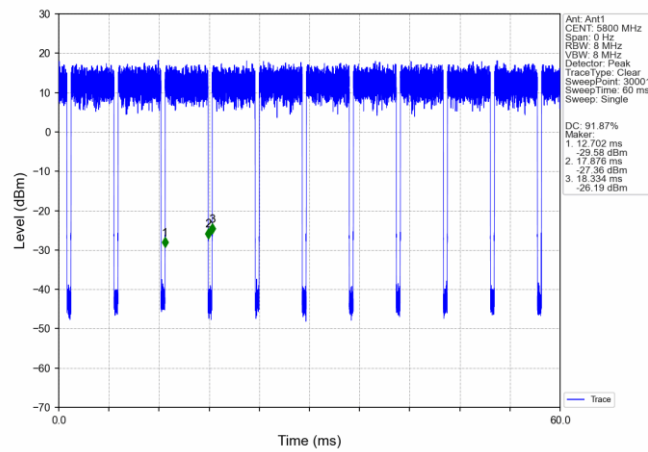


Duty cycle

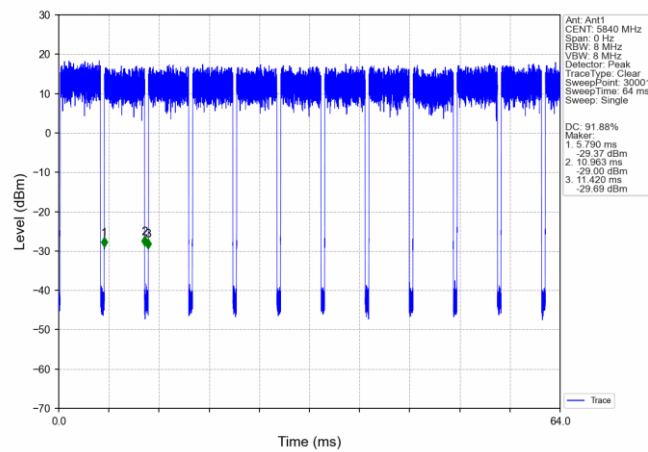
5.8G_2M_LCH_5730MHz_Ant1_NTNV



5.8G_2M_MCH_5800MHz_Ant1_NTNV



5.8G_2M_HCH_5840MHz_Ant1_NTNV





Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	5.8G	5730	Ant1	91.87	0.74	0.04
NVNT	5.8G	5800	Ant1	91.87	0.74	0.04
NVNT	5.8G	5840	Ant1	91.88	0.74	0.04

Note: Duty Factor=20*LOG(Ton/Tp)



4.7 TEST RESULTS (BAND EDGE REQUIREMENTS)

Frequency (MHz)	Reading (dBμV)	Corrected Factor (dB)	Result (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector	Polarity
5460	53.08	-8.27	44.81	74	-29.19	PK	Vertical
5460	43.67	-8.27	35.40	54	-18.60	AV	Vertical
5460	53.77	-8.27	45.50	74	-28.50	PK	Horizontal
5460	42.94	-8.27	34.67	54	-19.33	AV	Horizontal
7250	54.37	-6.33	48.04	74	-25.96	PK	Vertical
7250	44.26	-6.33	37.93	54	-16.07	AV	Vertical
7250	55.08	-6.33	48.75	74	-25.25	PK	Horizontal
7250	43.56	-6.33	37.23	54	-16.77	AV	Horizontal

4.8 TEST RESULTS (EIRP REQUIREMENTS)

Frequency (MHz)	Meter Reading (dBμV/m)	Detector	Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polar
5730.00	99.05	PK	-6.89	92.16	114.00	-21.84	H
5730.00	97.79	PK	-6.89	90.90	114.00	-23.10	V
5800.00	98.91	PK	-7.13	91.78	114.00	-22.22	H
5800.00	97.84	PK	-7.13	90.71	114.00	-23.29	V
5840.00	99.12	PK	-7.28	91.84	114.00	-22.16	H
5840.00	97.86	PK	-7.28	90.58	114.00	-23.42	V

$$AV = \text{Peak} + 20\log_{10}(\text{duty cycle factor}) = PK + (-8.11)$$

Frequency (MHz)	PK Reading (dBμV/m)	Duty cycle factor (dB)	AV Reading (dBμV/m)	Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polar
5730.00	99.05	-0.74	98.31	-6.89	91.42	94.00	-2.58	H
5730.00	97.79	-0.74	97.05	-6.89	90.16	94.00	-3.84	V
5800.00	98.91	-0.74	98.17	-7.13	91.04	94.00	-2.96	H
5800.00	97.84	-0.74	97.10	-7.13	89.97	94.00	-4.03	V
5840.00	99.12	-0.74	98.38	-7.28	91.10	94.00	-2.90	H
5840.00	97.86	-0.74	97.12	-7.28	89.84	94.00	-4.16	V

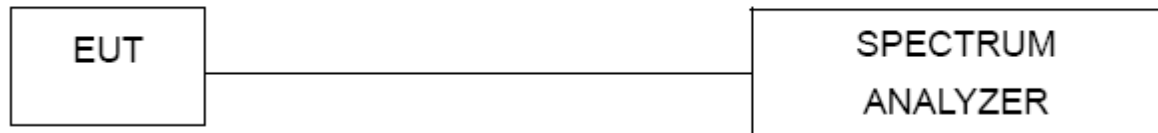


5. BANDWIDTH TEST

5.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting : RBW= 30KHz, VBW $\geq$ RBW, Sweep time = Auto.

5.2 TEST SETUP



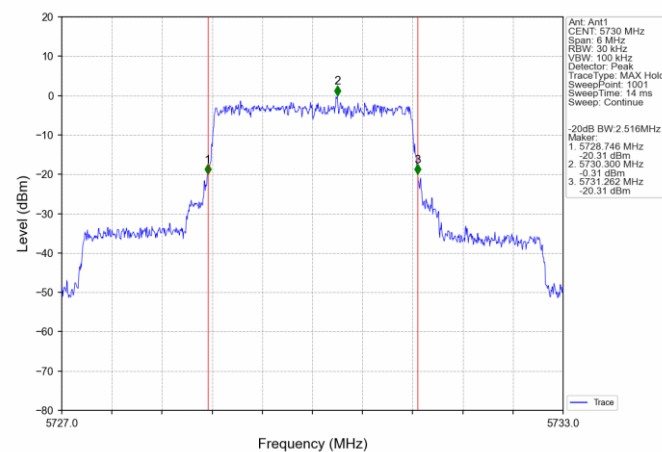
5.3 EUT OPERATION CONDITIONS

TX mode.

5.4 TEST RESULTS

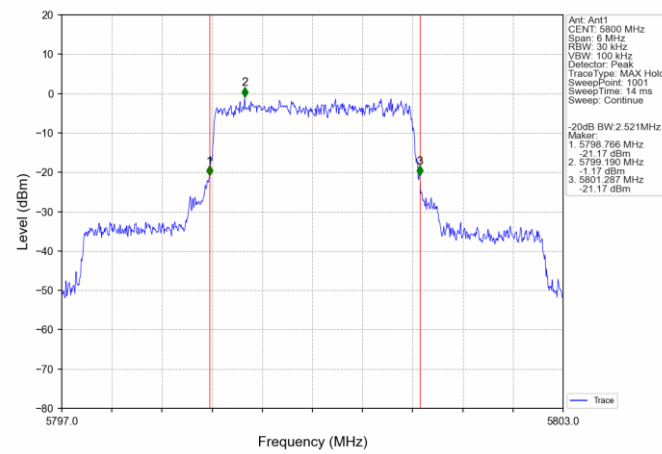
Mode	Frequency (MHz)	Antenna	20dB BANDWIDTH (MHz)
5.8G	5730	Ant1	2.516
5.8G	5800	Ant1	2.521
5.8G	5840	Ant1	2.513

Lowest Channel

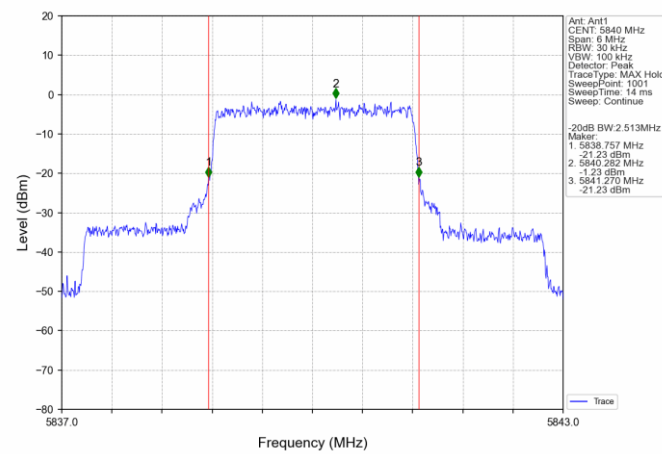




Middle Channel



High Channel





6. ANTENNA REQUIREMENT

6.1 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.

6.2 EUT ANTENNA

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



APPENDIX I - MEASUREMENT PHOTOS

Note: Please see the attached RF_Test Setup photos for FCC ID.

※※※※※END OF THE REPORT※※※※※