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# FCC Test Report

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Report No.: AGC15705240329FR01

**FCC ID** : 2BEOV-DRONE

**APPLICATION PURPOSE** : Original Equipment

**PRODUCT DESIGNATION** : R/C DRONE

**BRAND NAME** : N/A

**MODEL NAME** : Please see page 5

**APPLICANT** : Shantou Zhongli Intelligent Technology Co., LTD.

**DATE OF ISSUE** : Mar. 22, 2024

**STANDARD(S)** : FCC Part 15 Subpart C §15.249

**TEST PROCEDURE(S)** :

**REPORT VERSION** : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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Attestation of Global Compliance(Shenzhen)Co., Ltd  
Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd  
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>



### Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Mar. 22, 2024	Valid	Initial Release

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### 1. VERIFICATION OF CONFORMITY

<b>Applicant</b>	Shantou Zhongli Intelligent Technology Co., LTD.
<b>Address</b>	Hezhou Industrial Zone, Chenghai District, Shantou City, Guangdong Province, China
<b>Manufacturer</b>	Shantou Zhongli Intelligent Technology Co., LTD.
<b>Address</b>	Hezhou Industrial Zone, Chenghai District, Shantou City, Guangdong Province, China
<b>Factory</b>	Shantou Zhongli Intelligent Technology Co., LTD.
<b>Address</b>	Hezhou Industrial Zone, Chenghai District, Shantou City, Guangdong Province, China
<b>Product Designation</b>	R/C DRONE
<b>Brand Name</b>	N/A
<b>Test Model</b>	SG105MAX
<b>Series Model</b>	Please see page 6
<b>Date of receipt of test item</b>	The circuit design and PCB design of the product are the same as the internal structure, Only different on product appearance color.
<b>Date of receipt of test item</b>	Mar. 19, 2024
<b>Date of Test</b>	Mar. 19, 2024 to Mar. 22, 2024
<b>Deviation</b>	No any deviation from the test method
<b>Condition of Test Sample</b>	Normal
<b>Test Result</b>	Pass
<b>Report Template</b>	AGCRT-US-SRD/RF

Note: The test results of this report relate only to the tested sample identified in this report.

Prepared By	 <hr style="border: 0.5px solid black;"/> Jack Gui (Project Engineer)	Mar. 22, 2024
Reviewed By	 <hr style="border: 0.5px solid black;"/> Calvin Liu (Reviewer)	Mar. 22, 2024
Approved By	 <hr style="border: 0.5px solid black;"/> Max Zhang (Authorized Officer)	Mar. 22, 2024

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## 2. GENERAL INFORMATION

### 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

<b>Operation Frequency</b>	2405MHz-2475MHz
<b>Maximum field strength</b>	99.97dB $\mu$ V/m(Peak)@3m 88.42dB $\mu$ V/m(Average)@3m
<b>Modulation</b>	GFSK
<b>Number of channels</b>	68 Channels
<b>Antenna Gain</b>	2dBi
<b>Antenna Designation</b>	Dipole Antenna
<b>Hardware Version</b>	V1.0.0.231008
<b>Software Version</b>	V1.0.0.231008
<b>Power Supply</b>	DC 3.7V by battery
<b>Series Model</b>	SG100PRO, SG100PLUS, SG100MAX, SG200PRO, SG200MAX, SG300, SG300MAX, SG500MAX, SG500PRO, SG600PRO, SG600MAX, SG700-D, SG800PRO, SG800MAX, SG900PRO, SG900MAX, SG101PRO, SG101MAX, SG102, SG102PRO, SG102MAX, SG103, SG103PRO, SG103MAX, SG105, SG105PRO, SG107, SG107PRO, SG107MAX, SG108, SG108PRO, SG108MA, SG109, SG109PRO, SG109MAX, SG109MAX2, SG901PRO, SG901MAX, SG902, SG902PRO, SG902MAX, SG903, SG903PRO, SG903MAX, SG905, SG905PRO, SG905MAX, SG906MAX, SG906MAX1, SG906MAX2, SG906MAX3, SG906MINI, SG906MINI, SE, SG907PRO, SG907MAX, SG907MAX2, SG908PRO, SG908MAX, SG908MAX2, SG909, SG909PRO, SG909MAX, SG909MAX2, SG601, SG601PRO, SG601MAX, SG602, SG602PRO, SG602MAX, SG603, SG603PRO, SG603MAX, SG605, SG605PRO, SG605MAX, SG606PRO, SG606MAX, SG606MAX2, SG607PRO, SG607MAX, SG607MAX2, SG608PRO, SG608MAX, SG608MAX2, SG609PRO, SG609MAX, SG609MAX2, SG806PRO, SG806MAX, 8K, 8KPRO, 8KMAX, 8000W, 8000 MAX, 8000W MAX2, SG106, SG106PRO, SG106plus, SG106MAX

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**2.2. TABLE OF CARRIER FREQUENCY**

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2405	36	2441
2	2406	37	2442
3	2407	38	2443
4	2408	39	2445
5	2409	40	2446
6	2410	41	2447
7	2411	42	2448
8	2412	43	2449
9	2413	44	2450
10	2414	45	2451
11	2415	46	2452
12	2416	47	2453
13	2417	48	2454
14	2418	49	2455
15	2419	50	2456
16	2420	51	2457
17	2421	52	2458
18	2422	53	2459
19	2423	54	2460
20	2425	55	2461
21	2426	56	2462
22	2427	57	2463
23	2428	58	2465
24	2429	59	2466
25	2430	60	2467
26	2431	61	2468
27	2432	62	2469
28	2433	63	2470
29	2434	64	2471
30	2435	65	2472
31	2436	66	2473
32	2437	67	2474
33	2438	68	2475
34	2439	69	
35	2440	70	

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### 2.3. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.

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Attestation of Global Compliance(Shenzhen)Co., Ltd  
Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd  
Tel: +86-755 2523 4088 E-mail: [agc@agccert.com](mailto:agc@agccert.com) Web: <http://www.agccert.com/>



### 3. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the “Guide to the Expression of Uncertainty in measurement” (GUM) published by CISPR and ANSI.

- Uncertainty of Conducted Emission,  $U_c = \pm 2.9$  dB
- Uncertainty of Radiated Emission below 1GHz,  $U_c = \pm 3.9$  dB
- Uncertainty of Radiated Emission above 1GHz,  $U_c = \pm 4.9$  dB
- Uncertainty of Occupied Channel Bandwidth:  $U_c = \pm 2$  %

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#### 4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel TX_2405MHz_GFSK
2	Middle channel TX_2440MHz_GFSK
3	High channel TX_2475MHz_GFSK

Note:

1. All the test modes can be supply by battery, only the result of the worst case was recorded in the report, if no other cases.
2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
3. Set the EUT into the individual test modes by pressing the EUT buttons.
4. The battery is full-charged during the test.

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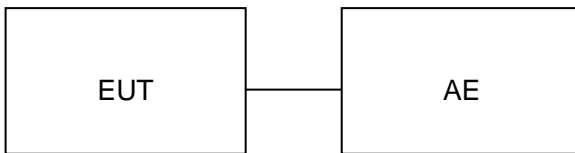
## 5. SYSTEM TEST CONFIGURATION

### 5.1. CONFIGURATION OF EUT SYSTEM

Radiated Emission Configure:



Conducted Emission Configure:



### 5.2 EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Adapter	HW-200440C00	HUAWEI	AE

### 5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.249&15.209	Radiated Emission	Compliant
§15.249	Band Edges	Compliant
§15.215	20dB bandwidth	Compliant
§15.207	Conducted Emission	Compliant

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## 6. TEST FACILITY

<b>Test Site</b>	Attestation of Global Compliance (Shenzhen) Co., Ltd
<b>Location</b>	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
<b>Designation Number</b>	CN1259
<b>FCC Test Firm Registration Number</b>	975832
<b>A2LA Cert. No.</b>	5054.02
<b>Description</b>	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

### TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Test Receiver	R&S	ESPI	101206	Jun. 03, 2023	Jun. 02, 2024
Artificial power network	R&S	ESH2-Z5	100086	Jun. 03, 2023	Jun. 02, 2024
Attenuator	East sheep	LM-XX-6-5W	N/A	Jun. 09, 2023	Jun. 08, 2024

### TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Test Receiver	R&S	ESCI	10096	Feb. 01, 2024	Jan. 31, 2025
Signal Analyzer	Aglient	N9020A	MY52090123	Jun. 01, 2023	May 31, 2024
EXA Signal Analyzer	Agilent	N9010A	MY53470504	Jun. 01, 2023	May 31, 2024
2.4GHz Filter	EM Electronics	N/A	N/A	Jun. 01, 2023	May 31, 2024
Attenuator	ZHINAN	E-002	N/A	Aug. 04, 2022	Aug. 03, 2024
Horn Antenna	SCHWARZBEC	BBHA9170	768	Sep. 24, 2023	Sep. 23, 2025
Active Loop Antenna (9K-30Mhz)	ZHINAN	ZN30900C	18051	Mar. 05, 2024	Mar. 04, 2025
Double-Ridged Waveguide Horn	ETS	3117	00034609	Jun. 03, 2023	Jun. 02, 2025
Preamplifier	ETS	3117-PA	00246148	Aug. 04, 2022	Aug. 03, 2024
Wideband Antenna	SCHWARZBECK	VULB9168	VULB9168-494	Jan. 05, 2024	Jan. 04, 2025
Test Software	Tonscend	4.0.0.0	N/A	N/A	N/A

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## 7. RADIATED EMISSION

### 7.1. TEST LIMIT

#### Standard FCC15.249

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (microvolts/meter)
900-928MHz	50	500
2400-2483.5MHz	50	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

#### Standard FCC 15.209

Frequency (MHz)	Distance Meters	Field Strengths Limit	
		$\mu$ V/m	dB( $\mu$ V)/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	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	Other:74.0 dB( $\mu$ V)/m (Peak) 54.0 dB( $\mu$ V)/m (Average)	

Remark: (1) Emission level dB  $\mu$  V = 20 log Emission level  $\mu$  V/m.  
 (2) The smaller limit shall apply at the cross point between two frequency bands.  
 (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

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## 7.2. MEASUREMENT PROCEDURE

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use minimum resolution bandwidth of 1 MHz. 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.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

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The following table is the setting of spectrum analyzer and receiver.

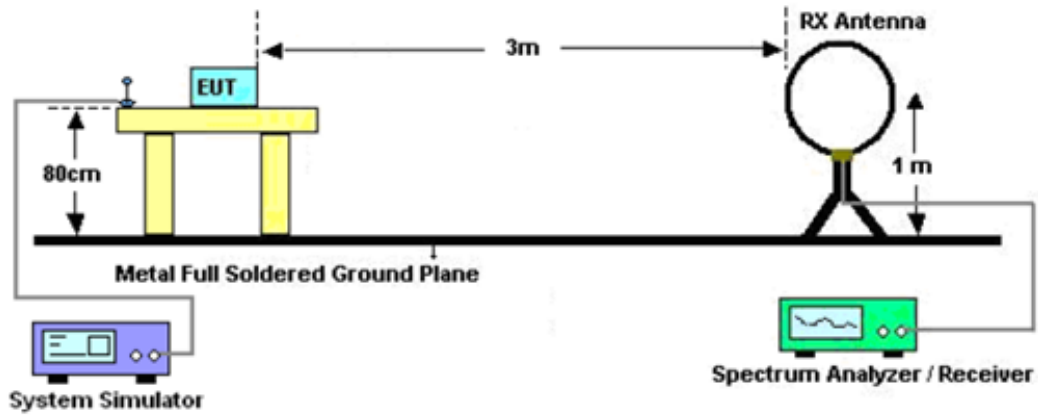
Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz RBW 2.4MHz/ VBW 8MHz for Peak, RBW 2.4MHz/3MHz for Average

Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

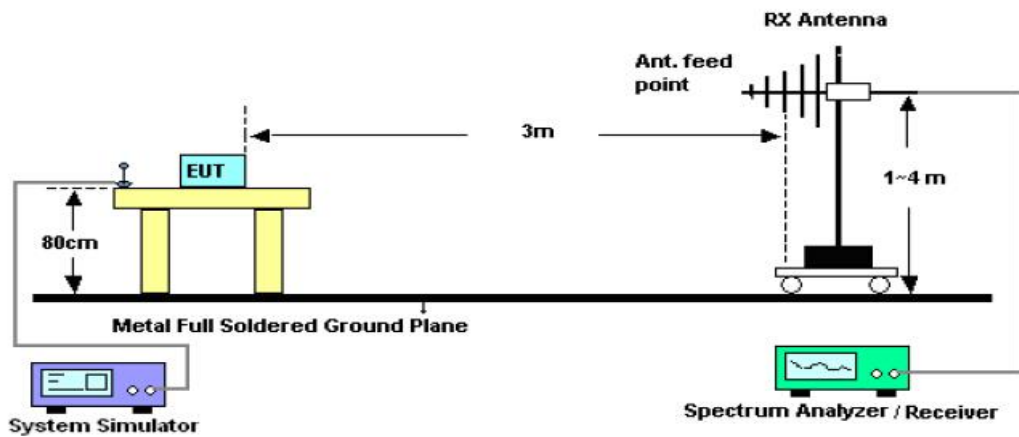
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### 7.3. TEST SETUP

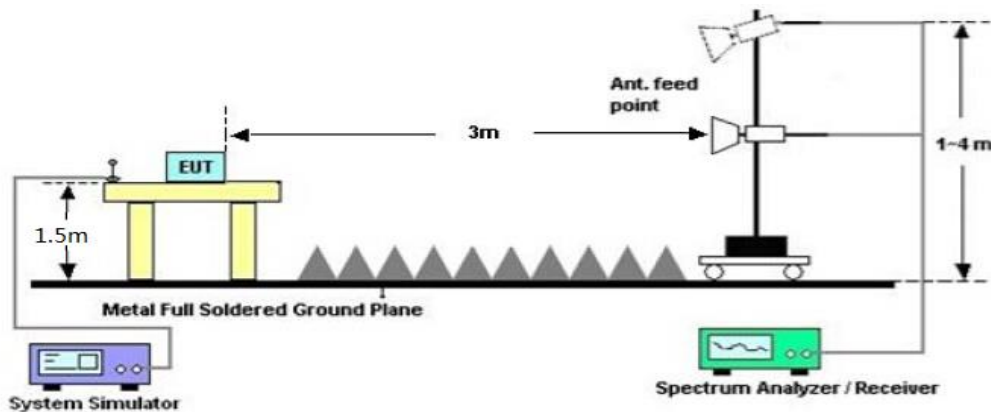
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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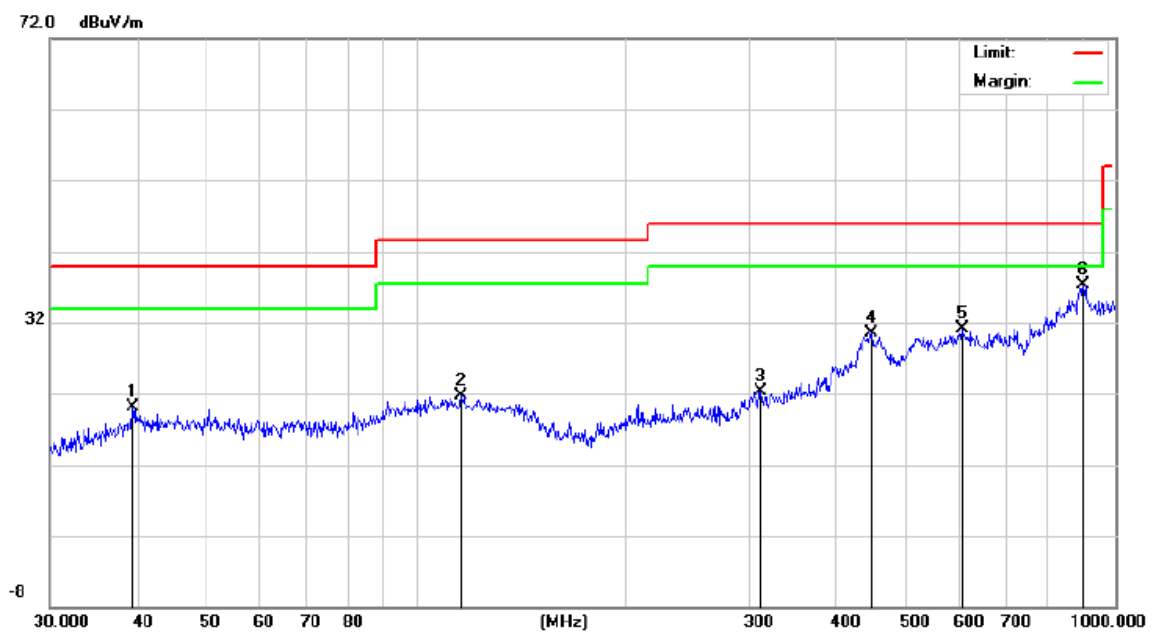
### 7.4. TEST RESULT

#### RADIATED EMISSION BELOW 30MHZ

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

#### RADIATED EMISSION 30MHz- 1GHZ

<b>EUT</b>	R/C DRONE	<b>Model Name</b>	SG105MAX
<b>Temperature</b>	21.7° C	<b>Relative Humidity</b>	59.9 %
<b>Pressure</b>	985kPa	<b>Test Voltage</b>	DC 3.7V by battery
<b>Test Mode</b>	Mode 3	<b>Polarization</b>	Horizontal

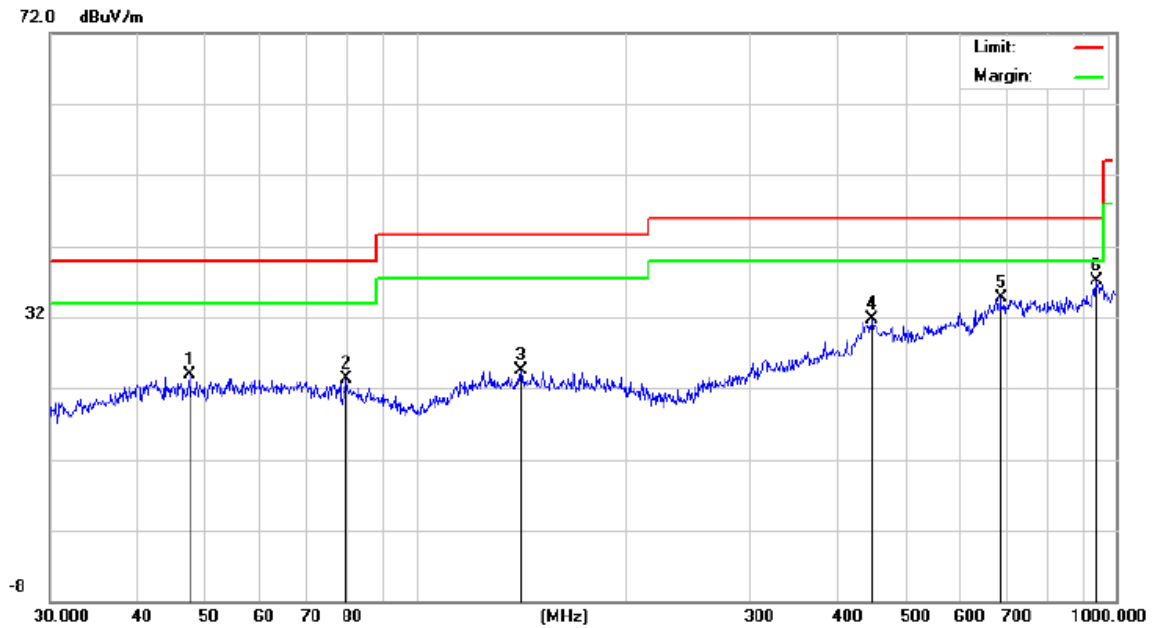


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		39.4371	6.46	13.66	20.12	40.00	-19.88	peak
2		116.1321	5.30	16.36	21.66	43.50	-21.84	peak
3		311.0867	5.87	16.50	22.37	46.00	-23.63	peak
4		447.9822	5.63	24.82	30.45	46.00	-15.55	peak
5		603.5392	6.03	25.12	31.15	46.00	-14.85	peak
6	*	900.1474	5.52	31.78	37.30	46.00	-8.70	peak

### RESULT: PASS

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<b>EUT</b>	R/C DRONE	<b>Model Name</b>	SG105MAX
<b>Temperature</b>	21.7° C	<b>Relative Humidity</b>	59.9 %
<b>Pressure</b>	985kPa	<b>Test Voltage</b>	DC 3.7V by battery
<b>Test Mode</b>	Mode 3	<b>Polarization</b>	Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		47.4918	6.87	16.97	23.84	40.00	-16.16	peak
2		79.5209	6.45	16.90	23.35	40.00	-16.65	peak
3		141.3298	6.29	18.20	24.49	43.50	-19.01	peak
4		447.9822	5.96	25.74	31.70	46.00	-14.30	peak
5		684.7454	6.82	27.79	34.61	46.00	-11.39	peak
6	*	938.8326	6.27	30.84	37.11	46.00	-8.89	peak

**RESULT: PASS**

**Note:** Factor=Antenna Factor + Cable loss, Over=Measurement-Limit.

The “Factor” value can be calculated automatically by software of measurement system.

All test modes had been tested. The mode 1 is the worst case and recorded in the report.

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**FIELD STRENGTH OF FUNDAMENTAL**

<b>EUT</b>	R/C DRONE	<b>Model Name</b>	SG105MAX
<b>Temperature</b>	21.7° C	<b>Relative Humidity</b>	59.9 %
<b>Pressure</b>	985kPa	<b>Test Voltage</b>	DC 3.7V by battery
<b>Test Modulation</b>	GFSK	<b>Polarization</b>	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2405	49.88	49.05	98.93	114.00	-15.07	peak
2405	37.68	49.05	86.73	94.00	-7.27	AVG
2440	45.99	49.12	95.11	114.00	-18.89	peak
2440	34.82	49.12	83.94	94.00	-10.06	AVG
2475	50.72	49.25	99.97	114.00	-14.03	peak
2475	38.82	49.25	88.07	94.00	-5.94	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

<b>EUT</b>	R/C DRONE	<b>Model Name</b>	SG105MAX
<b>Temperature</b>	21.7° C	<b>Relative Humidity</b>	59.9 %
<b>Pressure</b>	985kPa	<b>Test Voltage</b>	DC 3.7V by battery
<b>Test Modulation</b>	GFSK	<b>Polarization</b>	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2405	44.37	49.05	99.97	114.00	-14.03	peak
2405	29.51	49.05	88.42	94.00	-5.58	AVG
2440	45.31	49.12	96.63	114.00	-17.37	peak
2440	30.11	49.12	83.54	94.00	-10.46	AVG
2475	40.78	49.25	98.58	114.00	-15.43	peak
2475	30.48	49.25	81.76	94.00	-12.24	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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**RADIATED EMISSION ABOVE 1GHZ**

<b>EUT</b>	R/C DRONE	<b>Model Name</b>	SG105MAX
<b>Temperature</b>	21.7° C	<b>Relative Humidity</b>	59.9 %
<b>Pressure</b>	985kPa	<b>Test Voltage</b>	DC 3.7V by battery
<b>Test Mode</b>	Mode 1	<b>Polarization</b>	Horizontal

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Value Type
4810	50.43	3.76	54.19	74.00	-19.81	peak
4810	38.28	3.76	42.04	54.00	-11.96	AVG
7215	47.32	8.17	55.49	74.00	-18.51	peak
7215	37.12	8.17	45.29	54.00	-8.71	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

<b>EUT</b>	R/C DRONE	<b>Model Name</b>	SG105MAX
<b>Temperature</b>	21.7° C	<b>Relative Humidity</b>	59.9 %
<b>Pressure</b>	985kPa	<b>Test Voltage</b>	DC 3.7V by battery
<b>Test Mode</b>	Mode 1	<b>Polarization</b>	Vertical

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Value Type
4810	48.63	3.76	52.39	74.00	-21.61	peak
4810	37.72	3.76	41.48	54.00	-12.52	AVG
7215	46.26	8.17	54.43	74.00	-19.57	peak
7215	35.47	8.17	43.64	54.00	-10.36	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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<b>EUT</b>	R/C DRONE	<b>Model Name</b>	SG105MAX
<b>Temperature</b>	21.7° C	<b>Relative Humidity</b>	59.9 %
<b>Pressure</b>	985kPa	<b>Test Voltage</b>	DC 3.7V by battery
<b>Test Mode</b>	Mode 2	<b>Polarization</b>	Horizontal

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Value Type
4880	49.31	3.78	53.09	74.00	-20.91	peak
4880	37.75	3.78	41.53	54.00	-12.47	AVG
7320	46.67	8.23	54.90	74.00	-19.10	peak
7320	35.56	8.23	43.79	54.00	-10.21	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

<b>EUT</b>	R/C DRONE	<b>Model Name</b>	SG105MAX
<b>Temperature</b>	21.7° C	<b>Relative Humidity</b>	59.9 %
<b>Pressure</b>	985kPa	<b>Test Voltage</b>	DC 3.7V by battery
<b>Test Mode</b>	Mode 2	<b>Polarization</b>	Vertical

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Value Type
4880	47.19	3.78	50.97	74.00	-23.03	peak
4880	36.83	3.78	40.61	54.00	-13.39	AVG
7320	45.26	8.23	53.49	74.00	-20.51	peak
7320	35.24	8.23	43.47	54.00	-10.53	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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<b>EUT</b>	R/C DRONE	<b>Model Name</b>	SG105MAX
<b>Temperature</b>	21.7° C	<b>Relative Humidity</b>	59.9 %
<b>Pressure</b>	985kPa	<b>Test Voltage</b>	DC 3.7V by battery
<b>Test Mode</b>	Mode 3	<b>Polarization</b>	Horizontal

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Value Type
4950	49.95	3.81	53.76	74.00	-20.24	peak
4950	39.62	3.81	43.43	54.00	-10.57	AVG
7425	47.87	8.27	56.14	74.00	-17.86	peak
7425	37.51	8.27	45.78	54.00	-8.22	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

<b>EUT</b>	R/C DRONE	<b>Model Name</b>	SG105MAX
<b>Temperature</b>	21.7° C	<b>Relative Humidity</b>	59.9 %
<b>Pressure</b>	985kPa	<b>Test Voltage</b>	DC 3.7V by battery
<b>Test Mode</b>	Mode 3	<b>Polarization</b>	Vertical

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Value Type
4950	46.52	3.81	50.33	74.00	-23.67	peak
4950	37.65	3.81	41.46	54.00	-12.54	AVG
7425	44.77	8.27	53.04	74.00	-20.96	peak
7425	35.53	8.27	43.80	54.00	-10.20	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

**RESULT: PASS**

**Note:** The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Emission Level-Limit.

The “Factor” value can be calculated automatically by software of measurement system.

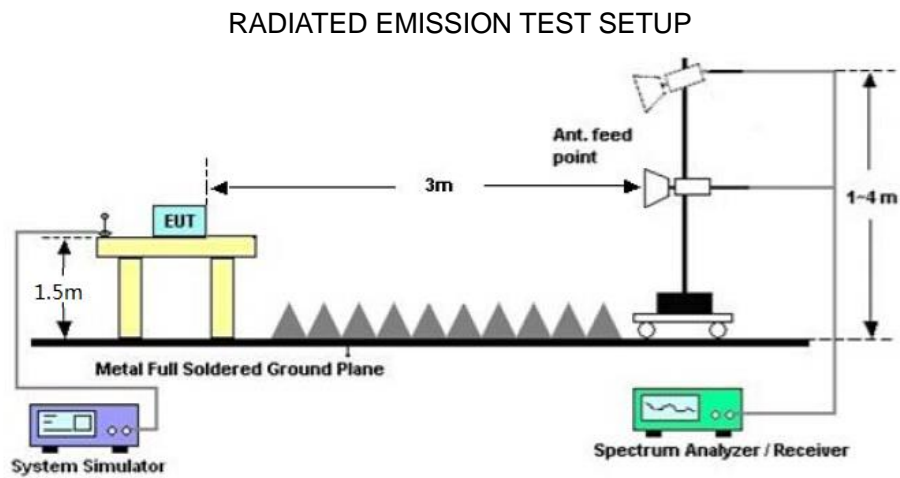
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## 8. BAND EDGE EMISSION

### 8.1. MEASUREMENT PROCEDURE

1. The EUT operates at transmitting mode. The operate channel is tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
2. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission: (a) PEAK: RBW=1MHz, VBW=3MHz / Sweep=AUTO  
(b) AVERAGE: RBW=1MHz; VBW=3MHz / Sweep=AUTO
3. Other procedures refer to clause 7.2.

### 8.2. TEST SETUP



### 8.3 RADIATED TEST RESULT

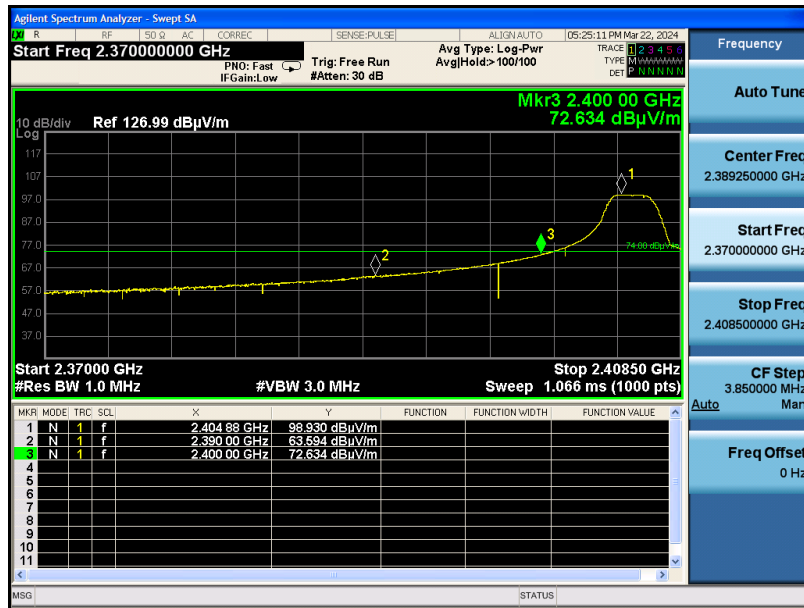
#### Note:

1. Factor=Antenna Factor + Cable loss - Amplifier gain. Field Strength=Factor + Reading level
2. The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB( $\mu$ V) to represent the Amplitude. Use the F dB( $\mu$ V/m) to represent the Field Strength. So A=F.

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EUT	R/C DRONE	Model Name	SG105MAX
Temperature	21.7° C	Relative Humidity	59.9 %
Pressure	985kPa	Test Voltage	DC 3.7V by battery
Test Mode	Mode 1	Polarization	Horizontal

Peak Value



Average Value

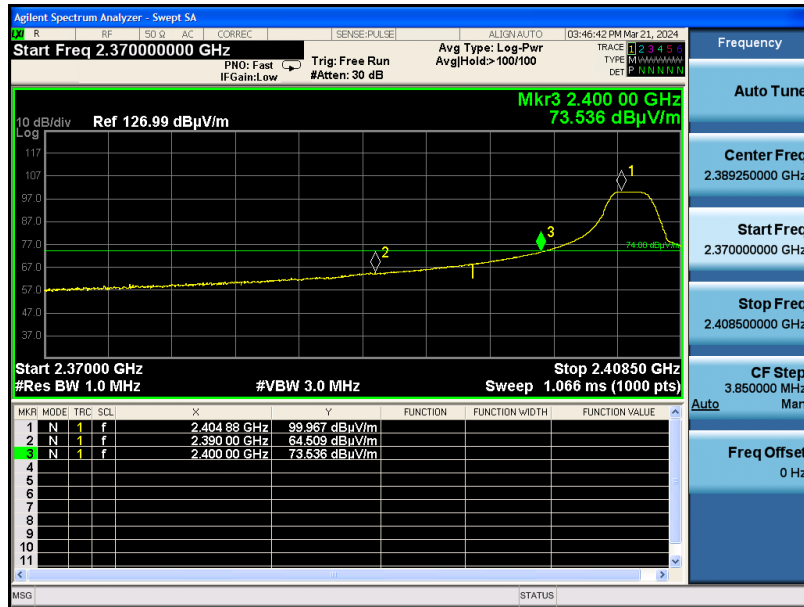


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EUT	R/C DRONE	Model Name	SG105MAX
Temperature	21.7° C	Relative Humidity	59.9 %
Pressure	985kPa	Test Voltage	DC 3.7V by battery
Test Mode	Mode 1	Polarization	Vertical

Peak Value



Average Value



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EUT	R/C DRONE	Model Name	SG105MAX
Temperature	21.7° C	Relative Humidity	59.9 %
Pressure	985kPa	Test Voltage	DC 3.7V by battery
Test Mode	Mode 3	Polarization	Horizontal

Peak Value



Average Value



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EUT	R/C DRONE	Model Name	SG105MAX
Temperature	21.7° C	Relative Humidity	59.9 %
Pressure	985kPa	Test Voltage	DC 3.7V by battery
Test Mode	Mode 3	Polarization	Vertical

Peak Value



Average Value



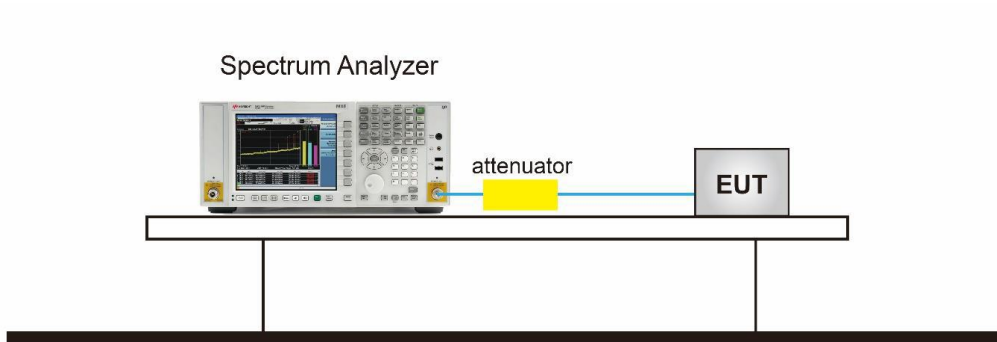
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## 9. 20DB BANDWIDTH

### 9.1. MEASUREMENT PROCEDURE

1. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
2. Set SPA Centre Frequency = Operation Frequency, RBW= 30kHz, VBW $\geq$ 1 $\times$ RBW.
3. Set SPA Trace 1 Max hold, then View.

### 9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



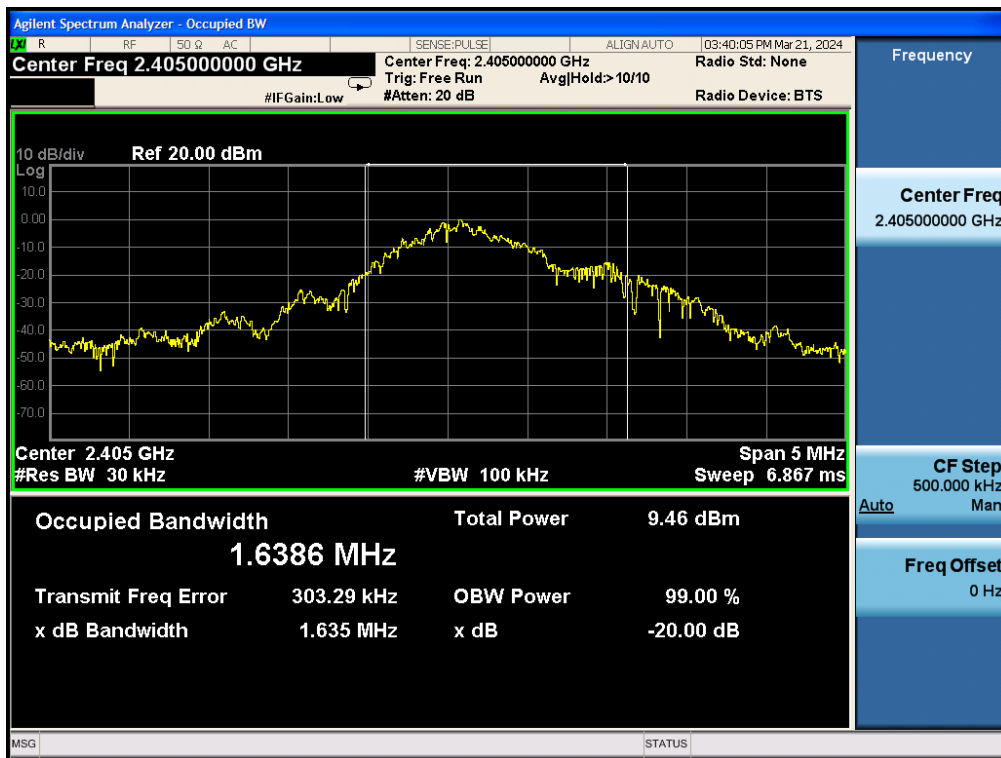
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### 9.3. MEASUREMENT RESULTS

TEST ITEM	20DB BANDWIDTH
TEST MODULATION	GFSK

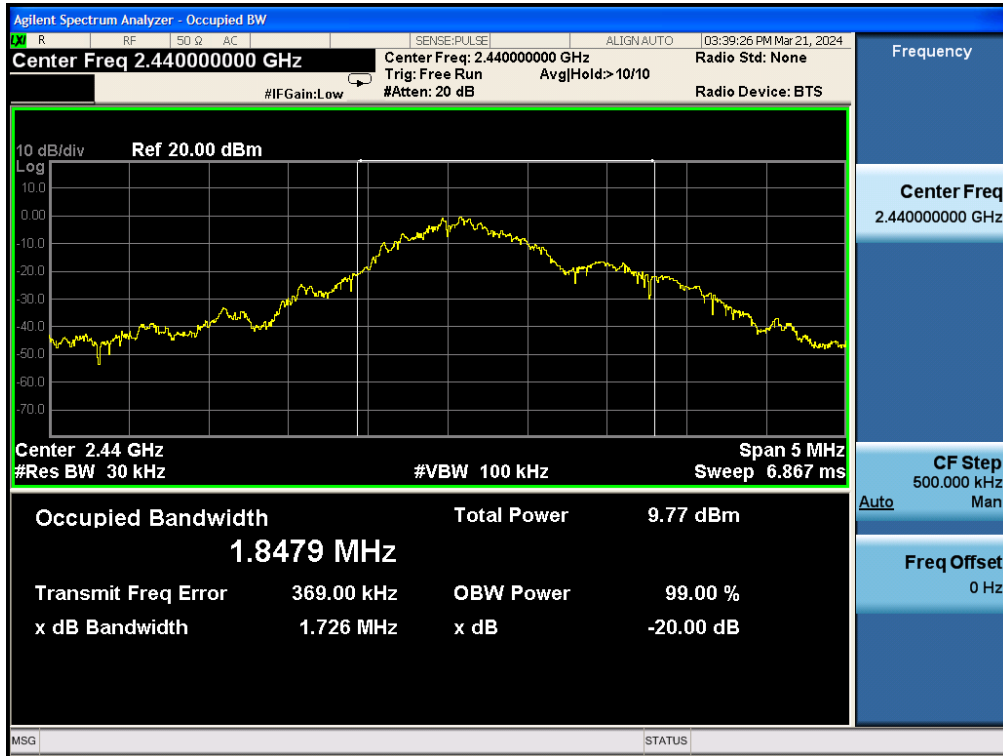
Test Channel (MHz)	20DB BANDWIDTH (MHz)	99% BANDWIDTH (MHz)	Criteria
2405	1.635	1.6386	PASS
2440	1.726	1.8479	PASS
2475	1.947	1.9108	PASS

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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## 10. FCC LINE CONDUCTED EMISSION TEST

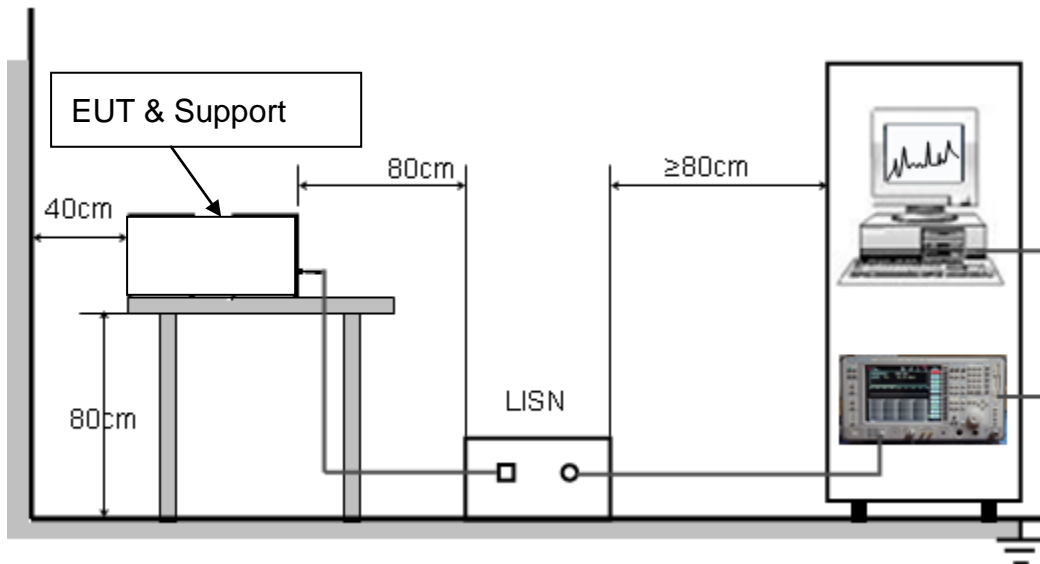
### 10.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note: 1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

### 10.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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### 10.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipment received AC120V/60Hz power from a LISN, if any.
5. The EUT received DC 4.5V power from battery.
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

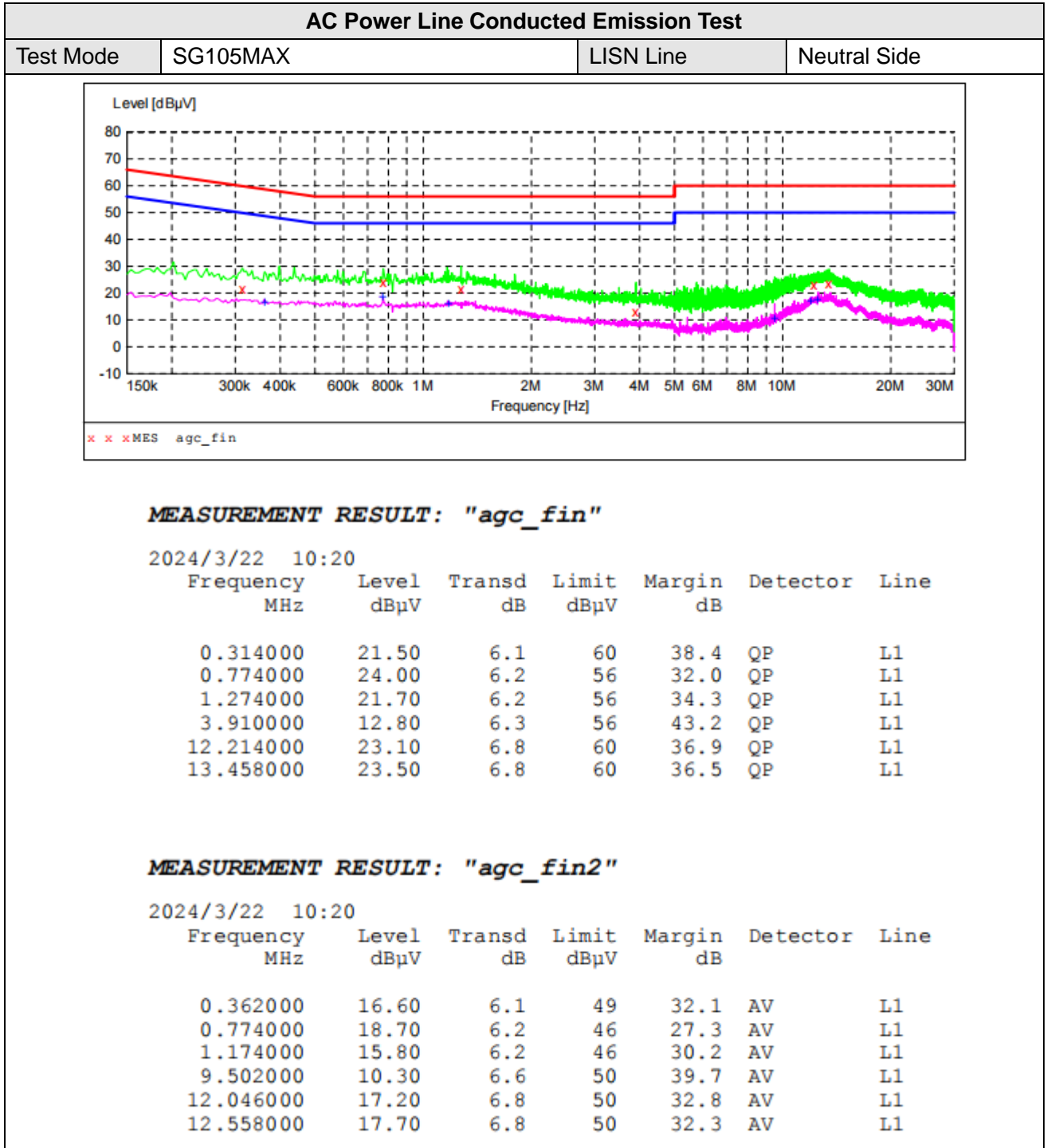
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

### 10.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported on the Summary Data page.

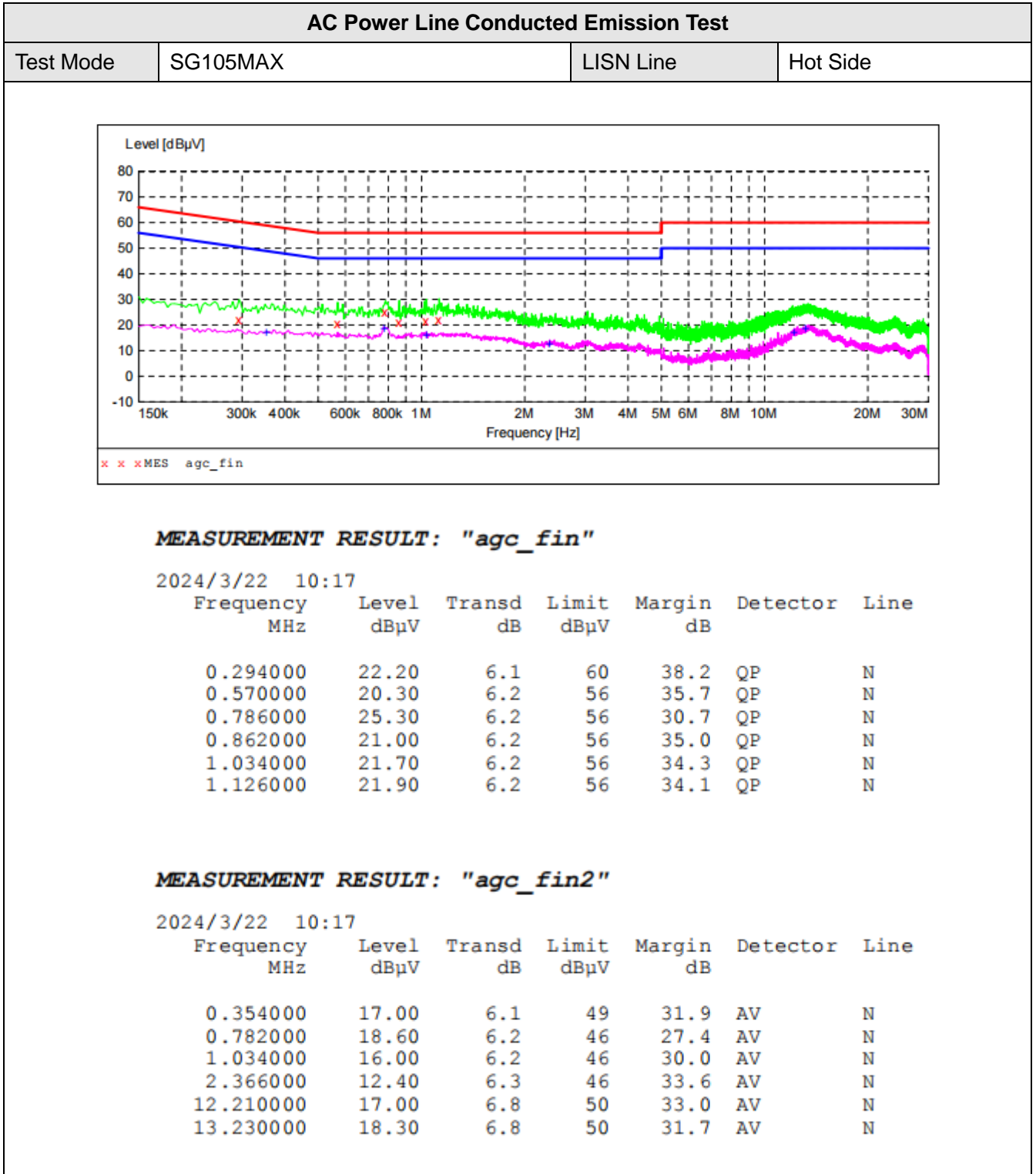


10.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST



**RESULT: Pass**

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**RESULT: PASS**

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

**APPENDIX A: PHOTOGRAPHS OF TEST SETUP**

Refer to the Report No.: AGC15705240329AP02

**APPENDIX B: PHOTOGRAPHS OF THE EUT**

Refer to the Report No.: AGC15705240329AP03

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

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by [agc01@agccert.com](mailto:agc01@agccert.com).

Attestation of Global Compliance(Shenzhen)Co., Ltd

Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

Tel: +86-755 2523 4088 E-mail: [agc@agccert.com](mailto:agc@agccert.com) Web: <http://www.agccert.com/>



## Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the “Company”) solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the “Clients”).
2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by [agc01@agccert.com](mailto:agc01@agccert.com).