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# FCC Test Report

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Report No.: AGC15705240351FR01

**FCC ID** : QV7-GC88752-98

**APPLICATION PURPOSE** : Original Equipment

**PRODUCT DESIGNATION** : INFERNO CRUISER

**BRAND NAME** : REVOLT

**MODEL NAME** : TG1025

**APPLICANT** : GUANGDONG SYMA MODEL AIRCRAFT INDUSTRIAL CO., LTD

**DATE OF ISSUE** : Apr. 11, 2024

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

**TEST PROCEDURE(S)**

**REPORT VERSION** : V1.0

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**Report Revise Record**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Apr. 11, 2024	Valid	Initial Release

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## TABLE OF CONTENTS

<b>1. VERIFICATION OF CONFORMITY</b>	<b>5</b>
<b>2. GENERAL INFORMATION</b>	<b>6</b>
2.1. PRODUCT DESCRIPTION	6
2.2. TABLE OF CARRIER FREQUENCY	7
2.3. ANTENNA REQUIREMENT	8
<b>4. DESCRIPTION OF TEST MODES</b>	<b>10</b>
<b>5. SYSTEM TEST CONFIGURATION</b>	<b>11</b>
5.1. CONFIGURATION OF EUT SYSTEM	11
5.2 EQUIPMENT USED IN TESTED SYSTEM	11
5.3. SUMMARY OF TEST RESULTS	11
<b>6. TEST FACILITY</b>	<b>12</b>
<b>7. RADIATED EMISSION</b>	<b>13</b>
7.1. TEST LIMIT	13
7.2. MEASUREMENT PROCEDURE	14
7.3. TEST SETUP	18
7.4. TEST RESULT	19
<b>8. BAND EDGE EMISSION</b>	<b>25</b>
8.1. MEASUREMENT PROCEDURE	25
8.2. TEST SETUP	25
8.3 RADIATED TEST RESULT	25
<b>9. 20DB BANDWIDTH</b>	<b>34</b>
9.1. MEASUREMENT PROCEDURE	34
9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	34
9.3. MEASUREMENT RESULTS	35
<b>10. FCC LINE CONDUCTED EMISSION TEST</b>	<b>37</b>
10.1. LIMITS OF LINE CONDUCTED EMISSION TEST	37
10.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST	37
10.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST	38
10.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST	38
10.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST	38

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<b>APPENDIX A: PHOTOGRAPHS OF TEST SETUP .....</b>	<b>39</b>
<b>APPENDIX B: PHOTOGRAPHS OF THE EUT .....</b>	<b>39</b>

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## 1. VERIFICATION OF CONFORMITY

<b>Applicant</b>	GUANGDONG SYMA MODEL AIRCRAFT INDUSTRIAL CO., LTD
<b>Address</b>	NO. 2 WEST XINGYE ROAD LAIMEI INDUSTRIAL AREA CHENG HAI, Shantou, China
<b>Manufacturer</b>	GUANGDONG SYMA MODEL AIRCRAFT INDUSTRIAL CO., LTD
<b>Address</b>	NO. 2 WEST XINGYE ROAD LAIMEI INDUSTRIAL AREA CHENG HAI, Shantou, China
<b>Factory</b>	GUANGDONG SYMA MODEL AIRCRAFT INDUSTRIAL CO., LTD
<b>Address</b>	NO. 2 WEST XINGYE ROAD LAIMEI INDUSTRIAL AREA CHENG HAI, Shantou, China
<b>Product Designation</b>	INFERNO CRUISER
<b>Brand Name</b>	REVOLT
<b>Test Model</b>	TG1025
<b>Series Model</b>	N/A
<b>Difference Description</b>	N/A
<b>Date of receipt of test item</b>	Mar. 26, 2024
<b>Date of Test</b>	Mar. 26, 2024 to Apr. 11, 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

*Jack Gui*Jack Gui  
(Project Engineer)

Apr. 11, 2024

Reviewed By

*Calvin Liu*Calvin Liu  
(Reviewer)

Apr. 11, 2024

Approved By

*Max Zhang*Max Zhang  
(Authorized Officer)

Apr. 11, 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>	98.86dBμV/m(Peak) @3m 82.85dBμV/m(Average) @3m
<b>Modulation</b>	GFSK
<b>Number of channels</b>	71 Channels
<b>Antenna Gain</b>	0dBi
<b>Antenna Designation</b>	Wire Antenna
<b>Hardware Version</b>	2024.1v1.0
<b>Software Version</b>	2024.1v1.0
<b>Power Supply</b>	DC 3.0V by battery

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## 2.2. TABLE OF CARRIER FREQUENCY

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2405	37	2441
2	2406	38	2442
3	2407	39	2443
4	2408	40	2444
5	2409	41	2445
6	2410	42	2446
7	2411	43	2447
8	2412	44	2448
9	2413	45	2449
10	2414	46	2450
11	2415	47	2451
12	2416	48	2452
13	2417	49	2453
14	2418	50	2454
15	2419	51	2455
16	2420	52	2456
17	2421	53	2457
18	2422	54	2458
19	2423	55	2459
20	2424	56	2460
21	2425	57	2461
22	2426	58	2462
23	2427	59	2463
24	2428	60	2464
25	2429	61	2465
26	2430	62	2466
27	2431	63	2467
28	2432	64	2468
29	2433	65	2469
30	2434	66	2470
31	2435	67	2471
32	2436	68	2472
33	2437	69	2473
34	2438	70	2474
35	2439	71	2475
36	2440		

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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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### 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_2445MHz_GFSK
3	High channel TX_2475MHz_GFSK
<p>Note:</p> <ol style="list-style-type: none"><li>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.</li><li>2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.</li><li>3. Set the EUT into the individual test modes by pressing the EUT buttons.</li><li>4. For battery operated equipment, the equipment tests are performed using a new battery.</li></ol>	

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## 5. SYSTEM TEST CONFIGURATION

### 5.1. CONFIGURATION OF EUT SYSTEM

Radiated Emission Configure:



### 5.2 EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	INFERNO CRUISER	TG1025	QV7-GC88752-98	EUT

### 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	Not applicable

Note: The conducted emission tests at AC port are not required for devices which only employ battery power for operation.

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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 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	Feb. 01, 2024	Jan. 31, 2025
2.4GHz Filter	EM Electronics	N/A	N/A	Jun. 01, 2023	May 31, 2024
Attenuator	ZHINAN	E-002	N/A	Feb. 01, 2024	Jan. 31, 2025
Horn Antenna	SCHWARZBEC	BBHA9170	768	Jun. 01, 2023	May 31, 2024
Active Loop Antenna (9K-30Mhz)	ZHINAN	ZN30900C	18051	Mar. 05, 2024	Mar. 04, 2025
Double-Ridged Waveguide Horn	ETS	3117	00034609	Mar. 23, 2023	Mar. 22, 2024
Double-Ridged Waveguide Horn	ETS	3117	00034609	Mar. 31, 2024	Mar. 30, 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.

## 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 1MHz/3MHz for Peak, 1MHz/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

■ The following is the test setup of Field Strength of Fundamental:

- Peak detection: RBW is greater than the main frequency OBW, VBW=50MHz / Sweep=AUTO
- Average detection: RBW is greater than the main frequency OBW, VBW=50MHz / Sweep=AUTO

■ The following is the test setup of Band Edge:

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.

● Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:

- Peak detection: RBW=1MHz, VBW=3MHz / Sweep=AUTO
- Average detection: RBW=1MHz; VBW=1/T / Sweep=AUTO (Duty cycle is less than 98%)
- Average detection: RBW=1MHz; VBW=3M / Sweep=AUTO
- Other procedures refer to clause 7.2.

● **Quasi-Peak Measurements below 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = as shown in the table above
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

● **Peak Measurements above 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

● **Average Measurements above 1GHz (Method VB)**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW setting requirements are as follows:
4. If the EUT is configured to transmit with duty cycle  $\geq 98\%$ , set VBW = 10 Hz.
5. If the EUT duty cycle is  $< 98\%$ , set VBW  $\geq 1/T$ . T is the minimum transmission duration.
6. Detector = Peak
7. Sweep time = auto

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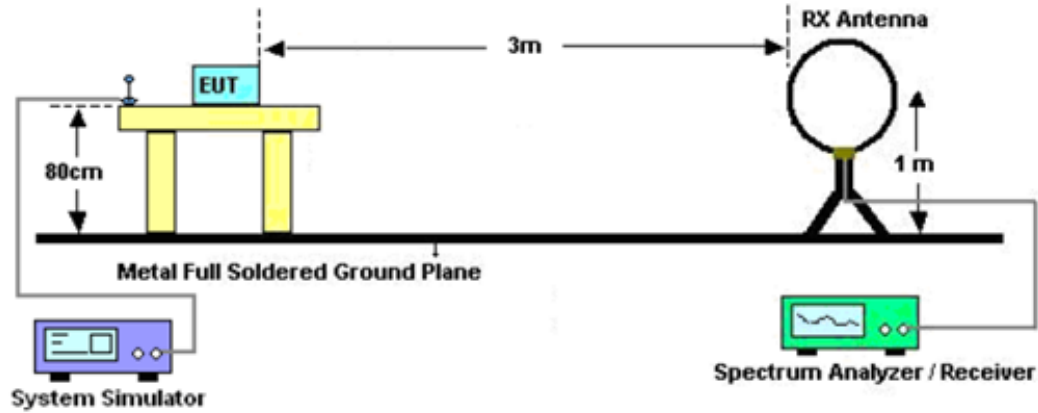
- 8. Trace mode = max hold
- 8. Trace was allowed to stabilize

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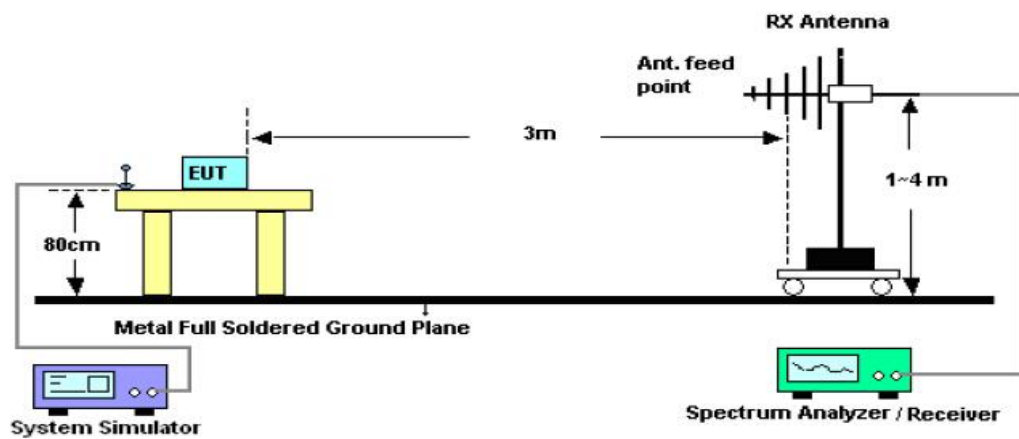
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### 7.3. TEST SETUP

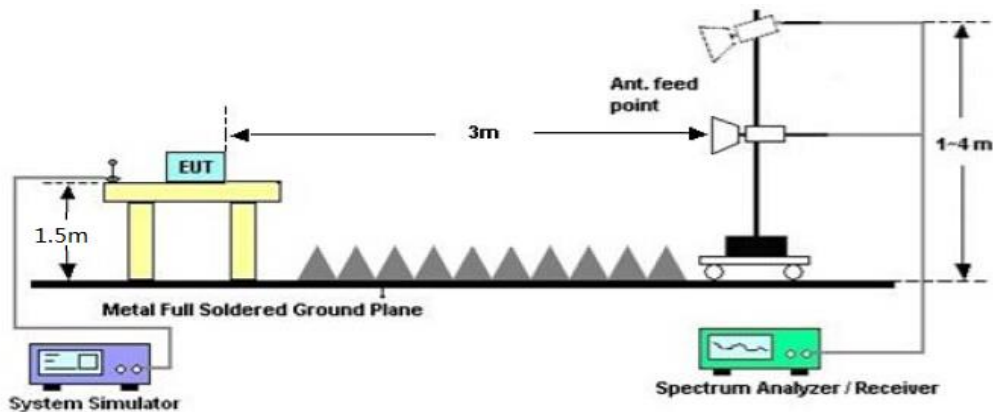
#### Radiated Emission Test-Setup Frequency Below 30MHz



#### RADIATED EMISSION TEST SETUP 30MHz-1000MHz



#### RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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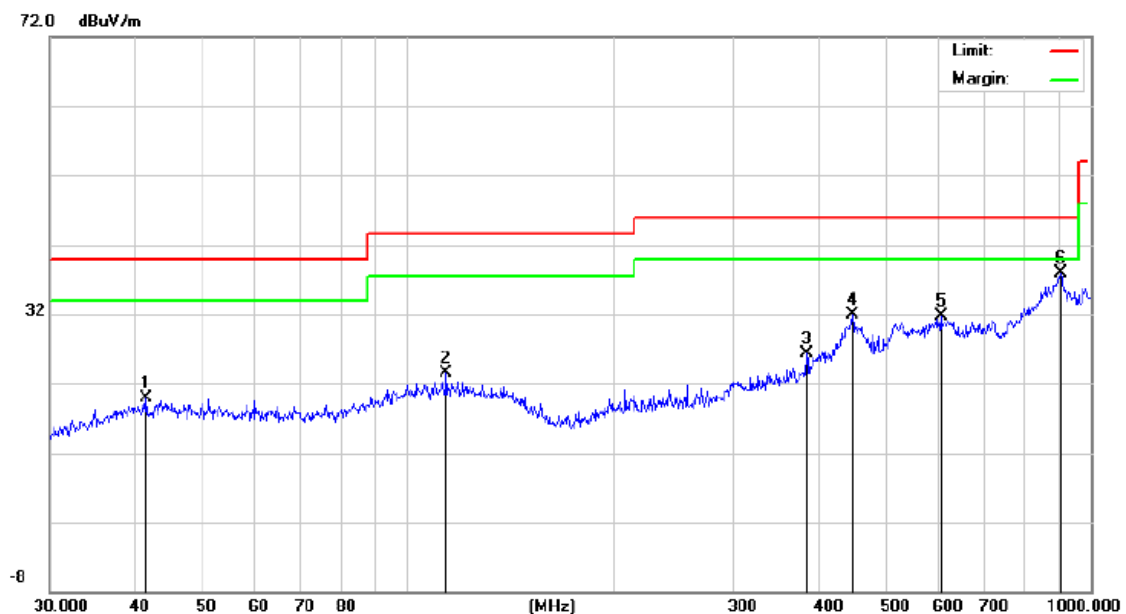
## 7.4. TEST RESULT

### 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>	INFERNO CRUISER	<b>Model Name</b>	TG1025
<b>Temperature</b>	23.2° C	<b>Relative Humidity</b>	59.8 %
<b>Pressure</b>	985kPa	<b>Test Voltage</b>	DC 3.0V by battery
<b>Test Mode</b>	Mode 3	<b>Polarization</b>	Horizontal

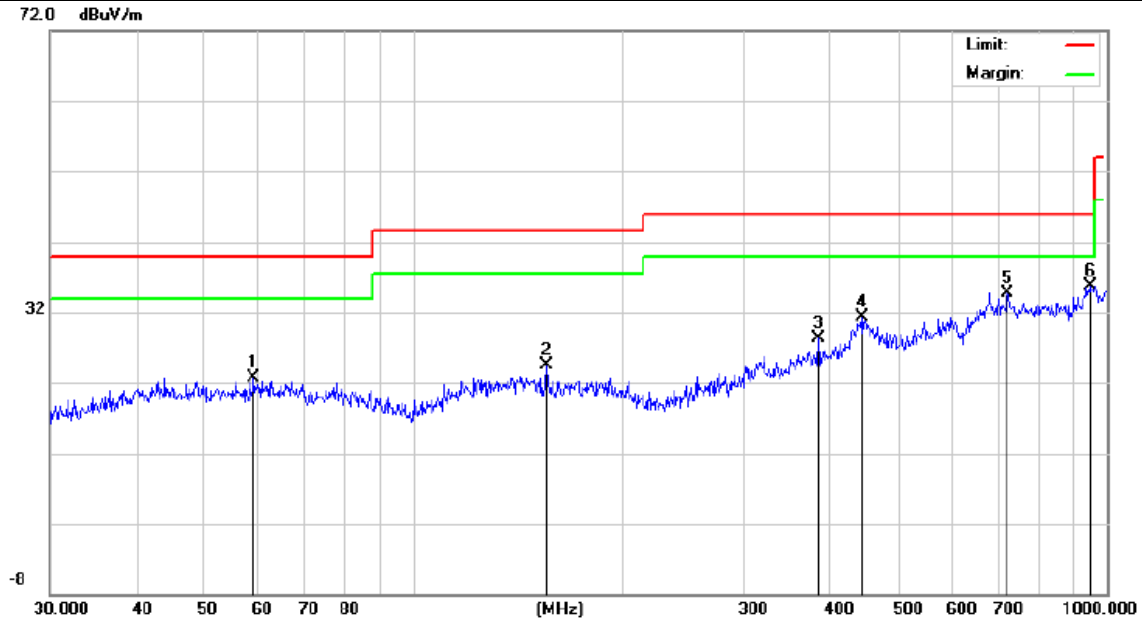


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		41.5670	6.15	13.79	19.94	40.00	-20.06	peak
2		114.1138	7.19	16.34	23.53	43.50	-19.97	peak
3		383.9318	7.72	18.63	26.35	46.00	-19.65	peak
4		447.9822	7.04	24.82	31.86	46.00	-14.14	peak
5		603.5392	6.61	25.12	31.73	46.00	-14.27	peak
6	*	903.3094	6.54	31.34	37.88	46.00	-8.12	peak

## RESULT: PASS

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<b>EUT</b>	INFERNO CRUISER	<b>Model Name</b>	TG1025
<b>Temperature</b>	23.2° C	<b>Relative Humidity</b>	59.8 %
<b>Pressure</b>	985kPa	<b>Test Voltage</b>	DC 3.0V 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		59.0251	5.55	17.09	22.64	40.00	-17.36	peak
2		155.9101	6.26	18.20	24.46	43.50	-19.04	peak
3		383.9318	6.67	21.56	28.23	46.00	-17.77	peak
4		443.2943	5.41	25.95	31.36	46.00	-14.64	peak
5		719.1995	6.01	28.77	34.78	46.00	-11.22	peak
6	*	945.4399	5.00	30.78	35.78	46.00	-10.22	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 3 is the worst case and recorded in the report.

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### FIELD STRENGTH OF FUNDAMENTAL

<b>EUT</b>	INFERNO CRUISER	<b>Model Name</b>	TG1025
<b>Temperature</b>	23.2° C	<b>Relative Humidity</b>	59.8 %
<b>Pressure</b>	985kPa	<b>Test Voltage</b>	DC 3.0V 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	45.42	49.05	94.47	114.00	-19.53	peak
2405	29.25	49.05	78.30	94.00	-15.70	AVG
2445	44.17	49.12	93.29	114.00	-20.71	peak
2445	28.33	49.12	77.45	94.00	-16.55	AVG
2475	49.61	49.25	98.86	114.00	-15.14	peak
2475	33.60	49.25	82.85	94.00	-11.15	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

<b>EUT</b>	INFERNO CRUISER	<b>Model Name</b>	TG1025
<b>Temperature</b>	23.2° C	<b>Relative Humidity</b>	59.8 %
<b>Pressure</b>	985kPa	<b>Test Voltage</b>	DC 3.0V 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	91.53	114.00	-22.47	peak
2405	29.51	49.05	75.35	94.00	-18.65	AVG
2445	45.31	49.12	90.98	114.00	-23.02	peak
2445	30.11	49.12	74.21	94.00	-19.79	AVG
2475	40.78	49.25	92.91	114.00	-21.09	peak
2475	30.48	49.25	77.15	94.00	-16.85	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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### RADIATED EMISSION ABOVE 1GHZ

<b>EUT</b>	INFERNO CRUISER	<b>Model Name</b>	TG1025
<b>Temperature</b>	23.2° C	<b>Relative Humidity</b>	59.8 %
<b>Pressure</b>	985kPa	<b>Test Voltage</b>	DC 3.0V by battery
<b>Test Mode</b>	Mode 1	<b>Polarization</b>	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4810.000	46.62	3.76	50.38	74.00	-23.62	peak
4810.000	37.53	3.76	41.29	54.00	-12.71	AVG
7215.000	41.86	8.17	50.03	74.00	-23.97	peak
7215.000	31.73	8.17	39.90	54.00	-14.10	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

<b>EUT</b>	INFERNO CRUISER	<b>Model Name</b>	TG1025
<b>Temperature</b>	23.2° C	<b>Relative Humidity</b>	59.8 %
<b>Pressure</b>	985kPa	<b>Test Voltage</b>	DC 3.0V by battery
<b>Test Mode</b>	Mode 1	<b>Polarization</b>	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4810.000	46.57	3.76	50.33	74.00	-23.67	peak
4810.000	38.19	3.76	41.95	54.00	-12.05	AVG
7215.000	42.26	8.17	50.43	74.00	-23.57	peak
7215.000	31.73	8.17	39.90	54.00	-14.10	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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.

<b>EUT</b>	INFERNO CRUISER	<b>Model Name</b>	TG1025
<b>Temperature</b>	23.2° C	<b>Relative Humidity</b>	59.8 %
<b>Pressure</b>	985kPa	<b>Test Voltage</b>	DC 3.0V by battery
<b>Test Mode</b>	Mode 2	<b>Polarization</b>	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4890.000	46.43	3.78	50.21	74.00	-23.79	peak
4890.000	38.76	3.78	42.54	54.00	-11.46	AVG
7335.000	41.88	8.23	50.11	74.00	-23.89	peak
7335.000	32.55	8.23	40.78	54.00	-13.22	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

<b>EUT</b>	INFERNO CRUISER	<b>Model Name</b>	TG1025
<b>Temperature</b>	23.2° C	<b>Relative Humidity</b>	59.8 %
<b>Pressure</b>	985kPa	<b>Test Voltage</b>	DC 3.0V by battery
<b>Test Mode</b>	Mode 2	<b>Polarization</b>	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4890.000	46.34	3.78	50.12	74.00	-23.88	peak
4890.000	35.40	3.78	39.18	54.00	-14.82	AVG
7335.000	41.07	8.23	49.30	74.00	-24.70	peak
7335.000	32.16	8.23	40.39	54.00	-13.61	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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<b>EUT</b>	INFERNO CRUISER	<b>Model Name</b>	TG1025
<b>Temperature</b>	23.2° C	<b>Relative Humidity</b>	59.8 %
<b>Pressure</b>	985kPa	<b>Test Voltage</b>	DC 3.0V 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
4950.000	46.37	3.81	50.18	74.00	-23.82	peak
4950.000	36.96	3.81	40.77	54.00	-13.23	AVG
7425.000	41.84	8.27	50.11	74.00	-23.89	peak
7425.000	32.22	8.27	40.49	54.00	-13.51	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

<b>EUT</b>	INFERNO CRUISER	<b>Model Name</b>	TG1025
<b>Temperature</b>	23.2° C	<b>Relative Humidity</b>	59.8 %
<b>Pressure</b>	985kPa	<b>Test Voltage</b>	DC 3.0V 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
4950.000	47.26	3.81	51.07	74.00	-22.93	peak
4950.000	38.73	3.81	42.54	54.00	-11.46	AVG
7425.000	42.88	8.27	51.15	74.00	-22.85	peak
7425.000	31.25	8.27	39.52	54.00	-14.48	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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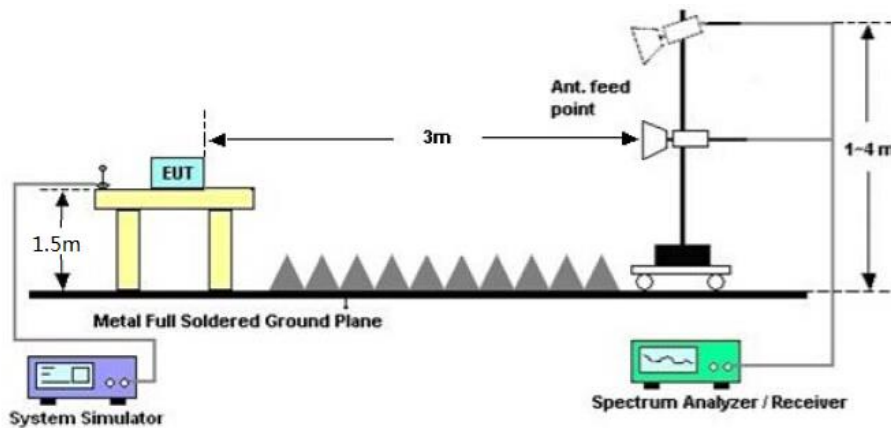
## 8. BAND EDGE EMISSION

### 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

RADIATED EMISSION TEST SETUP



### 8.3 RADIATED TEST RESULT

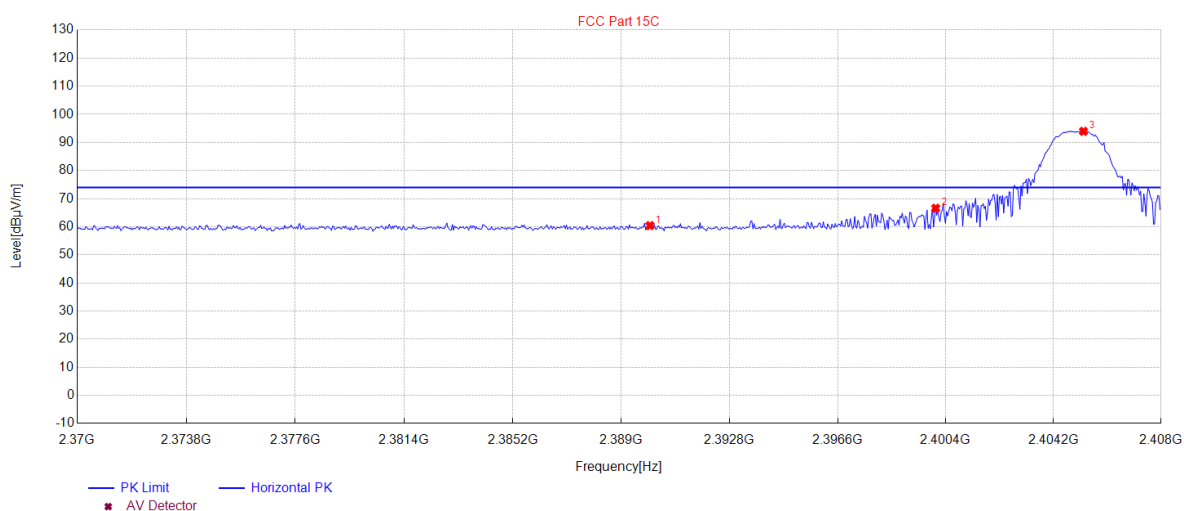
#### Note:

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	INFERNO CRUISER	Model Name	TG1025
Temperature	21.2° C	Relative Humidity	59.5 %
Pressure	985kPa	Test Voltage	DC 3.0V by battery
Test Mode	Mode 1	Polarization	Horizontal

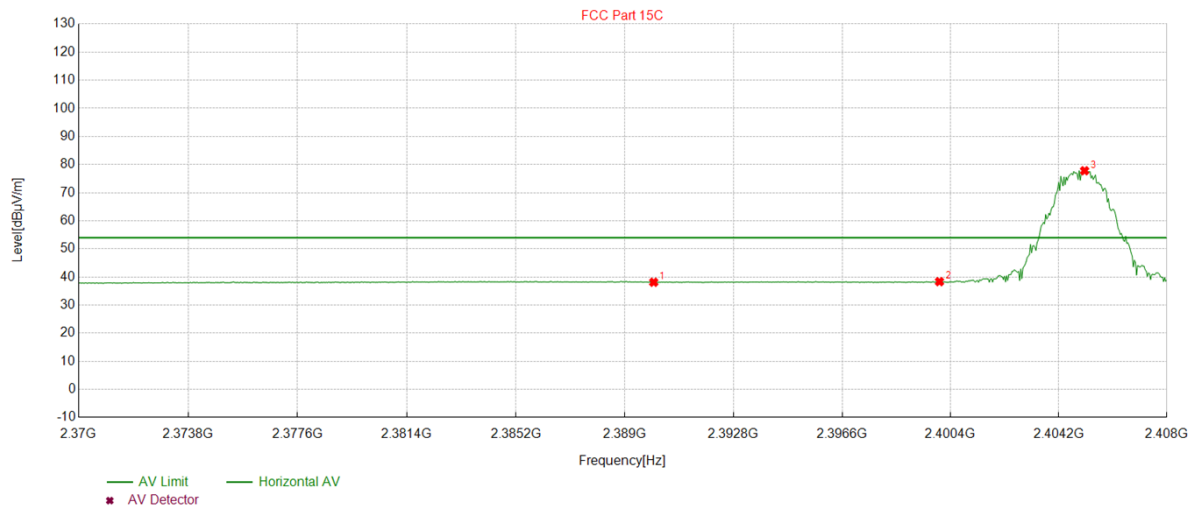
Peak Value



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2390.008	60.42	34.40	74.00	13.58	150	300	Horizontal
2	2400.05	66.60	34.43	74.00	7.40	150	267	Horizontal
3	2405.2613	93.97	34.44	114.00	20.03	150	92	Horizontal

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### Average Value

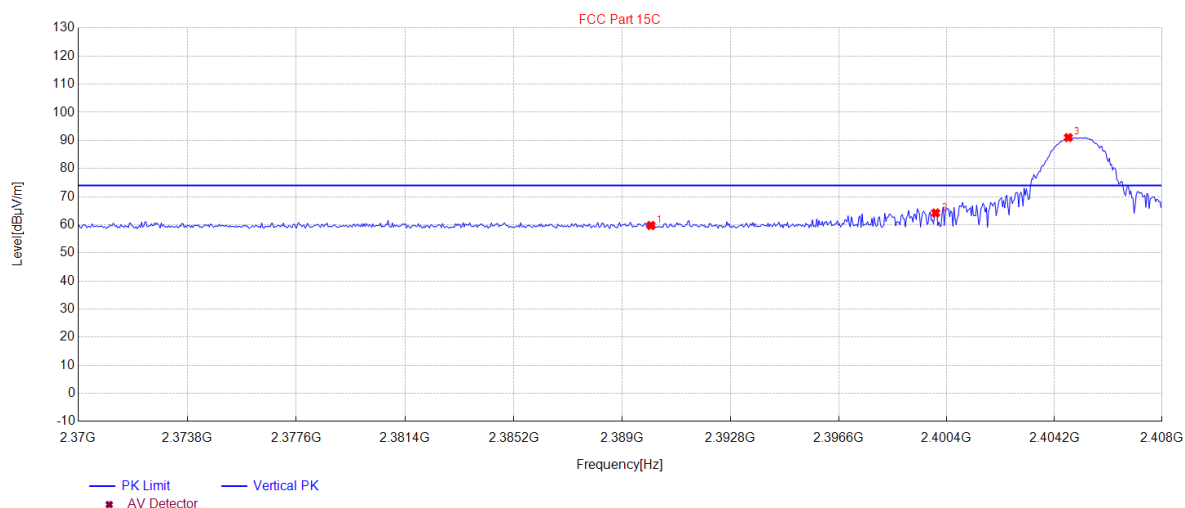


NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2390.008	38.12	34.40	54.00	15.88	150	239	Horizontal
2	2400.012	38.33	34.43	54.00	15.67	150	107	Horizontal
3	2405.1091	77.80	34.44	94.00	16.20	150	86	Horizontal

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<b>EUT</b>	INFERNO CRUISER	<b>Model Name</b>	TG1025
<b>Temperature</b>	21.2° C	<b>Relative Humidity</b>	59.5 %
<b>Pressure</b>	985kPa	<b>Test Voltage</b>	DC 3.0V by battery
<b>Test Mode</b>	Mode 1	<b>Polarization</b>	Vertical

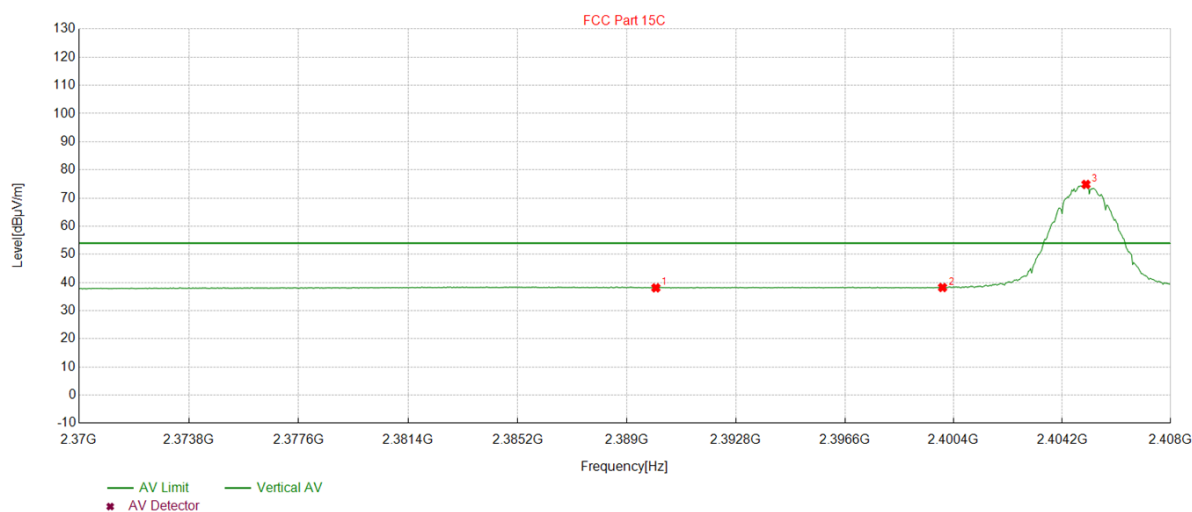
### Peak Value



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2390.008	59.74	34.40	74.00	14.26	150	10	Vertical
2	2400.012	64.20	34.43	74.00	9.80	150	149	Vertical
3	2404.6907	91.03	34.44	114.00	22.97	150	195	Vertical

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### Average Value

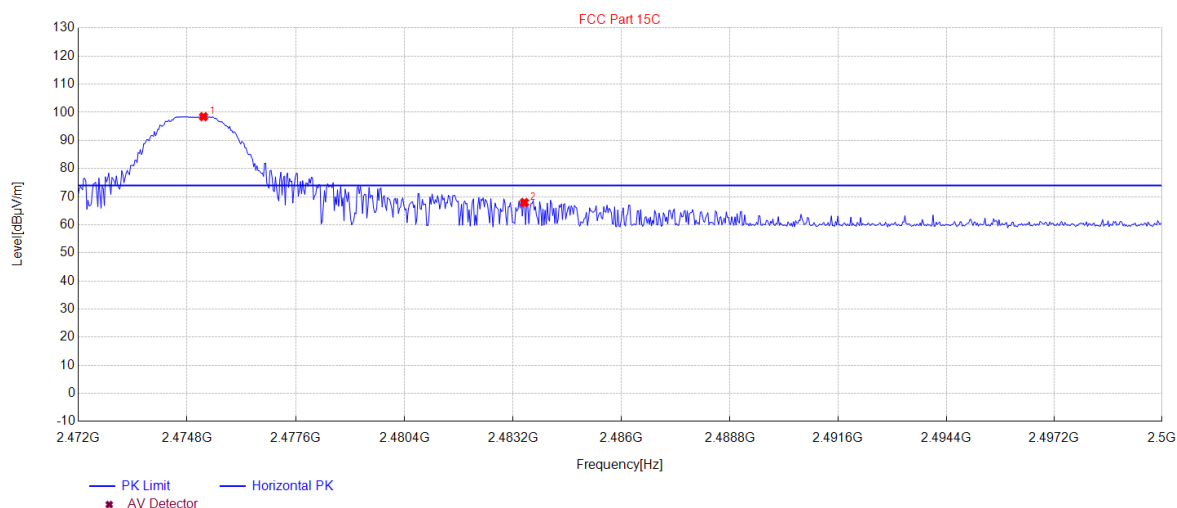


NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2390.008	38.10	34.40	54.00	15.90	150	312	Vertical
2	2400.012	38.21	34.43	54.00	15.79	150	200	Vertical
3	2405.033	74.84	34.44	94.00	19.16	150	200	Vertical

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<b>EUT</b>	INFERNO CRUISER	<b>Model Name</b>	TG1025
<b>Temperature</b>	21.2° C	<b>Relative Humidity</b>	59.5 %
<b>Pressure</b>	985kPa	<b>Test Voltage</b>	DC 3.0V by battery
<b>Test Mode</b>	Mode 3	<b>Polarization</b>	Horizontal

### Peak Value

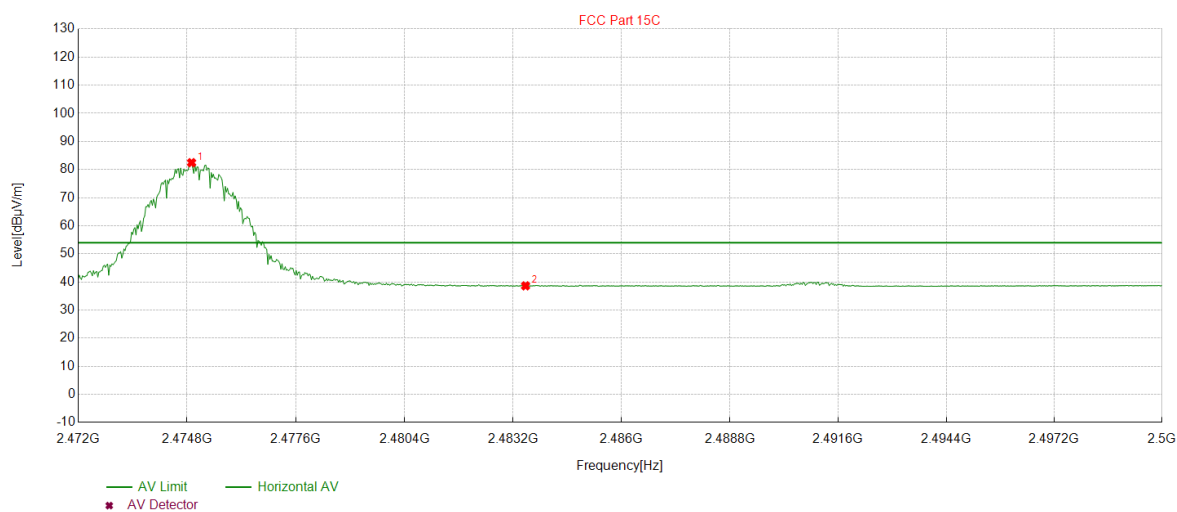


NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2475.2232	98.46	34.64	114.00	15.54	150	76	Horizontal
2	2483.4915	67.92	34.66	74.00	6.08	150	84	Horizontal

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### Average Value



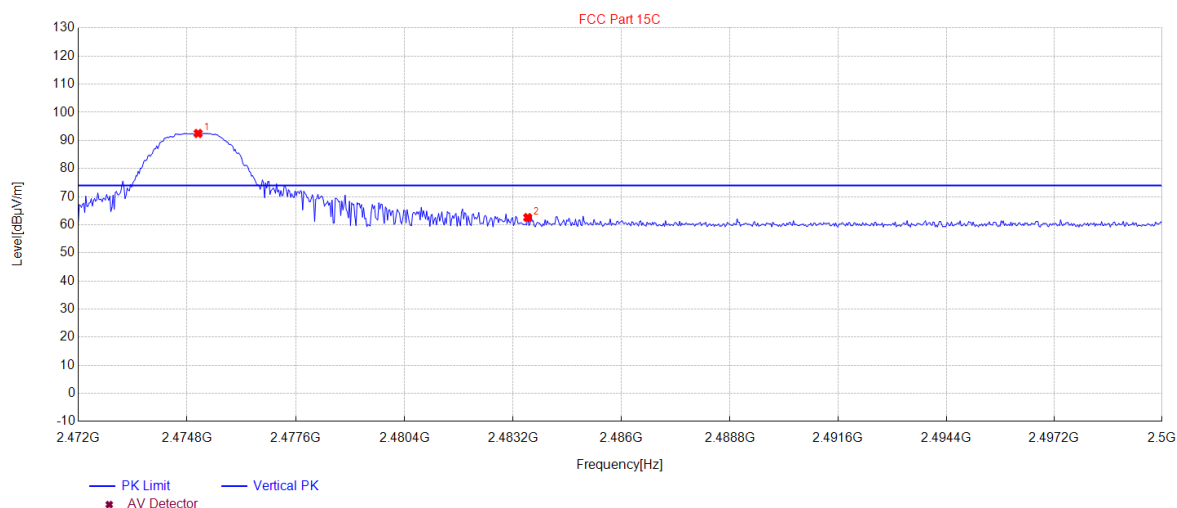
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2474.9149	82.45	34.64	94.00	11.55	150	78	Horizontal
2	2483.5195	38.62	34.66	54.00	15.38	150	82	Horizontal

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<b>EUT</b>	INFERNO CRUISER	<b>Model Name</b>	TG1025
<b>Temperature</b>	21.2° C	<b>Relative Humidity</b>	59.5 %
<b>Pressure</b>	985kPa	<b>Test Voltage</b>	DC 3.0V by battery
<b>Test Mode</b>	Mode 3	<b>Polarization</b>	Vertical

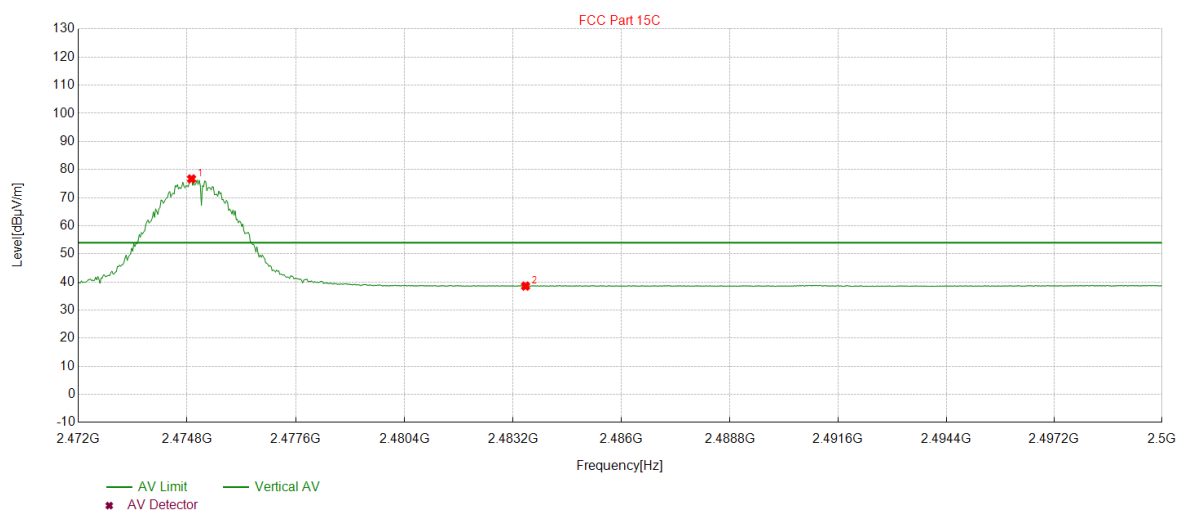
Peak Value



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2475.0831	92.49	34.64	114.00	21.51	150	27	Vertical
2	2483.5756	62.56	34.66	74.00	11.44	150	358	Vertical

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### Average Value



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2474.9149	76.68	34.64	94.00	17.32	150	27	Vertical
2	2483.5195	38.52	34.66	54.00	15.48	150	124	Vertical

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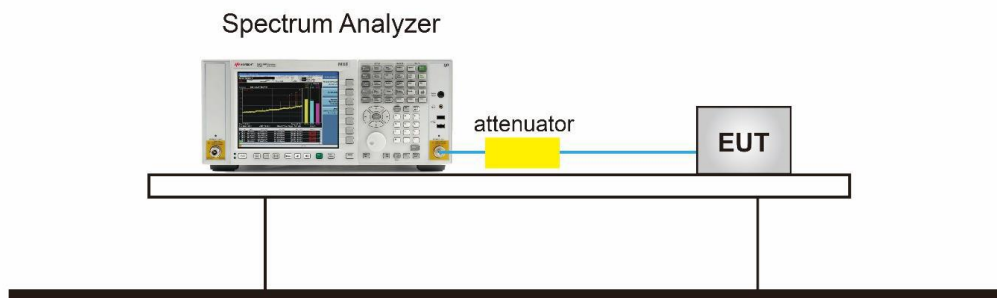
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## 9. 20DB BANDWIDTH

### 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

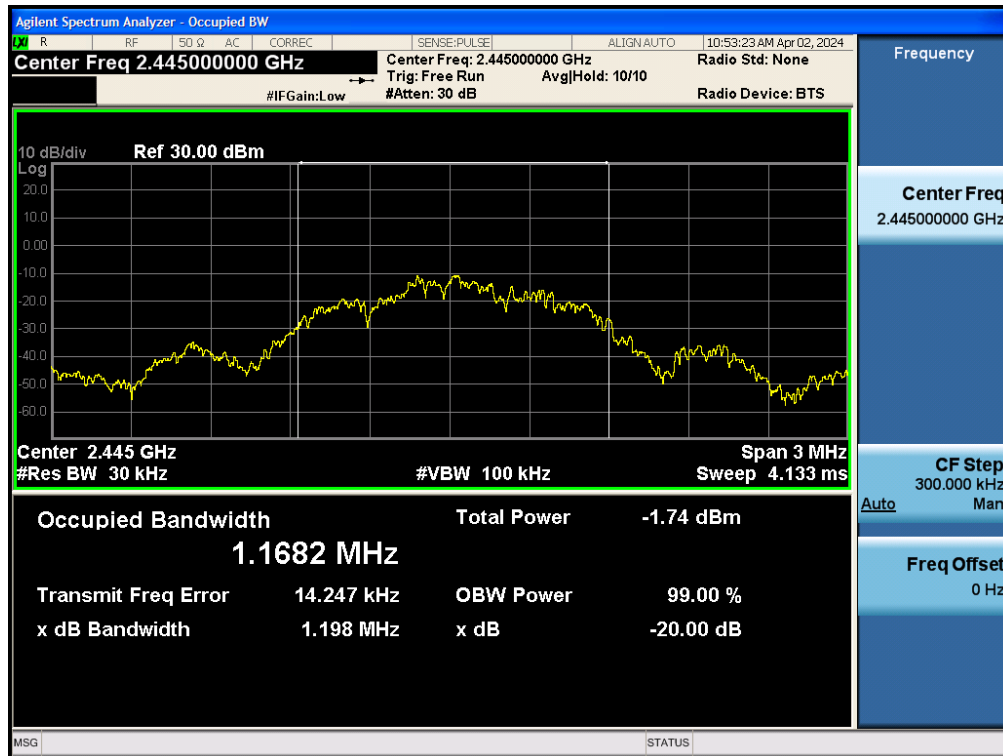
Test Channel (MHz)	20DB BANDWIDTH (MHz)	99% BANDWIDTH (MHz)	Criteria
2405	1.215	1.1651	PASS
2445	1.198	1.1682	PASS
2475	1.274	1.2057	PASS

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

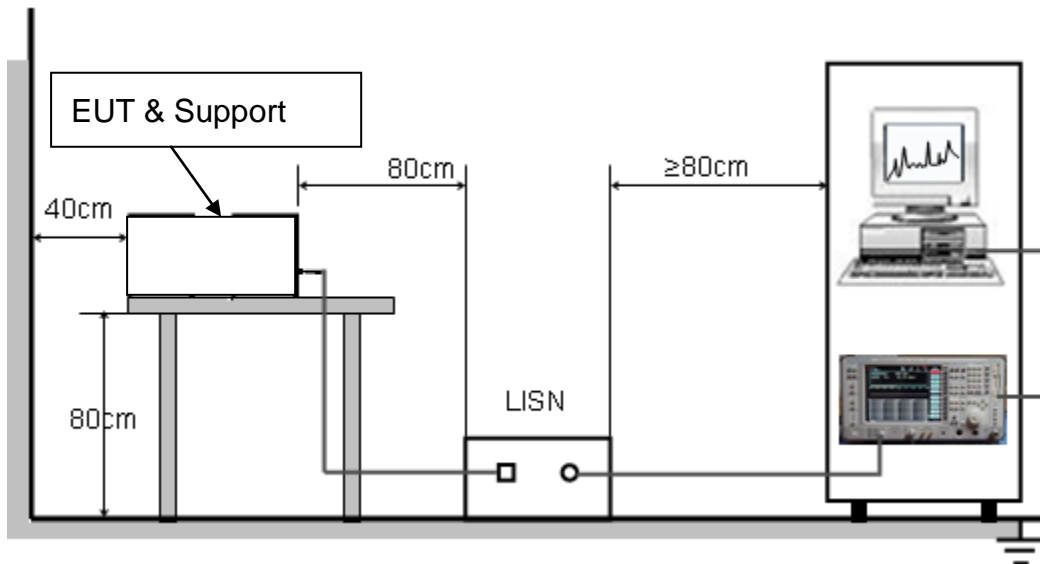
### 10.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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 C63.10-2013 (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 C63.10-2013.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2013.
4. All support equipment received AC120V/60Hz power from a LISN, if any.
5. The EUT received DC 3.0V 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

Note: The conducted emission tests at AC port are not required for devices which only employ battery power for operation.

## **APPENDIX A: PHOTOGRAPHS OF TEST SETUP**

Refer to the Report No.: AGC15705240351AP02

## **APPENDIX B: PHOTOGRAPHS OF THE EUT**

Refer to the Report No.: AGC15705240351AP03

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

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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.

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