

# **FCC Test Report**

Report No.: AGC01278220601FE02

**FCC ID** : 2ADM5-MA-3050

**APPLICATION PURPOSE**: Original Equipment

**PRODUCT DESIGNATION**: LINK True Wireless Earphones

**BRAND NAME** : MUVEACOUSTICS

MA-3050, MA-3050SB, MA-3050FB, MA-3050MB,

MA-3050XX, MA-3050AXX, MA-3050ZXX (Remark: 1ST X

= A-Z, 2nd X = A-Z)

**APPLICANT**: Zeeva International Limited

**DATE OF ISSUE** : Jun. 21, 2022

**STANDARD(S)** : FCC Part 15.247

REPORT VERSION : V1.

Attestation of Global  $\overline{C}$ ompliance (Shenzhen) Co., Ltd





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## REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jun. 21, 2022	Valid	Initial Release



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## 1. VERIFICATION OF COMPLIANCE

Applicant	Zeeva International Limited		
Address	Suite 1007B, 10th Floor, Exchange Tower, 33 Wang Chiu Road, Kowloon Bay Hong Kong China		
Manufacturer Shenzhen Maikejie Technology Co., Ltd.			
Address	401, Bldg.no.41, Xinyuan Industrial Pack, Guxing Community, Xixiang Street, Bao'an Dist., Shenzhen, Guangdong, 518100 China.		
Factory	Shenzhen Maikejie Technology Co., Ltd.		
Address	401, Bldg.no.41, Xinyuan Industrial Pack, Guxing Community, Xixiang Street, Bao'an Dist., Shenzhen, Guangdong, 518100 China.		
Product Designation	LINK True Wireless Earphones		
Brand Name	MUVEACOUSTICS		
Test Model	MA-3050		
Series Model	MA-3050SB, MA-3050FB, MA-3050MB, MA-3050BW, MA-3050BP, MA-3050PW, MA-3050SG, MA-3050XX, MA-3050AXX, MA-3050ZXX (Remark: 1ST X = A-Z, 2nd X =A-Z)		
<b>Declaration of Difference</b>	All the same except for the model name.		
Date of test	Jun. 15, 2022 to Jun. 21, 2022		
Deviation	No any deviation from the test method		
Condition of Test Sample	Normal		
Test Result	Pass		
Report Template	AGCRT-US-BLE/RF		

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC part 15.247.





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## 2. GENERAL INFORMATION

## 2.1. PRODUCT DESCRIPTION

The EUT is designed as a "LINK True Wireless Earphones". It is designed by way of utilizing the GFSK technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz		
RF Output Power	1.629dBm (Max)		
Bluetooth Version	V5.3		
Modulation	BR □GFSK, EDR □π /4-DQPSK, □8DPSK BLE ☑GFSK 1Mbps □GFSK 2Mbps		
Number of channels	40 Channels		
Antenna Designation	Ceramic Antenna (Comply with requirements of the FCC part 15.203)		
Antenna Gain	0dBi		
Hardware Version	V2		
Software Version	V255P1		
Power Supply	DC 3.7V by battery or DC 5V by adapter		
Note: The EUT comprises left and right channel headsets, both are the same, the left headset had been tested			

and recorded in this report as the worst case.

#### 2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
	0	2402 MHz
	1	2404 MHz
2400~2483.5MHz	:	:
	38	2478 MHz
	39	2480 MHz



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## 2.3. RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for **FCC ID: 2ADM5-MA-3050** filling to comply with the FCC Part 15.247 requirements.

#### 2.4. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

#### 2.5. SPECIAL ACCESSORIES

Refer to section 5.2.

## 2.6. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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

Item	Measurement Uncertainty		
Uncertainty of Conducted Emission for AC Port	$U_c = \pm 3.1 \text{ dB}$		
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 4.0 \text{ dB}$		
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.8 \text{ dB}$		
Uncertainty of total RF power, conducted	$U_c = \pm 0.8 \text{ dB}$		
Uncertainty of RF power density, conducted	$U_c = \pm 2.6 \text{ dB}$		
Uncertainty of spurious emissions, conducted	$U_c = \pm 2 \%$		
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$		



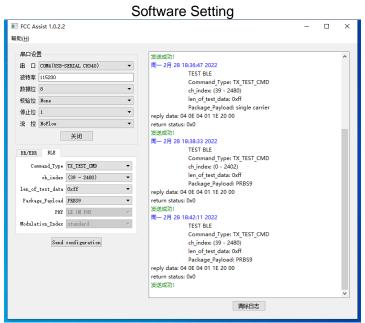
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## 4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION		
1	Low channel TX		
2	Middle channel TX		
3	High channel TX		

#### Note:

- 1. 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. For Conducted Test method, a temporary antenna connector is provided by the manufacture.



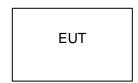


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## 5. SYSTEM TEST CONFIGURATION

### **5.1. CONFIGURATION OF TESTED SYSTEM**

Radiated Emission Configure:



Conducted Emission Configure:

EUT	AE

## 5.2. EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	LINK True Wireless Earphones	MA-3050	2ADM5-MA-3050	EUT
2	Control Box	USB-TTL	N/A	AE

## **5.3. SUMMARY OF TEST RESULTS**

FCC RULES	DESCRIPTION OF TEST	RESULT
15.247 (b)(3)	Peak Output Power	Compliant
15.247 (a)(2)	6 dB Bandwidth	Compliant
15.247 (d)	Conducted Spurious Emission	Compliant
15.247 (e)	Maximum Conducted Output Power Density	Compliant
15.209	Radiated Emission	Compliant
15.207	Conducted Emission	Not applicable

Note: The BT function cannot transmit when charging.



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### 6. TEST FACILITY

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

### **TEST EQUIPMENT OF RADIATED EMISSION TEST**

TEST EQUIFMENT OF RADIATED EMISSION TEST						
Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due	
TEST RECEIVER	R&S	ESCI	10096	Mar. 28, 2022	Mar. 27, 2023	
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Nov. 17, 2021	Nov. 16, 2022	
2.4GHz Filter	EM Electronics	2400-2500	N/A	Mar. 22, 2022	Mar. 21, 2024	
Attenuator	ZHINAN	E-002	N/A	Sep. 03, 2020	Sep. 02, 2022	
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Oct. 31, 2021	Oct. 30, 2023	
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Mar. 12, 2022	Mar. 11, 2024	
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	Apr. 23, 2021	Apr. 22, 2023	
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022	
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 08, 2021	Jan. 07, 2023	
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A	



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## 7. PEAK OUTPUT POWER

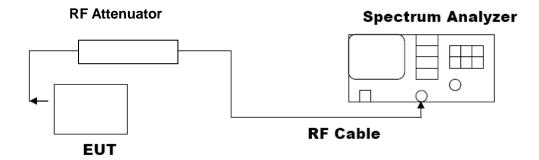
### 7.1. MEASUREMENT PROCEDURE

For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. RBW ≥ DTS bandwidth
- 3. VBW≥3\*RBW.
- 4. SPAN≥VBW.
- 5. Sweep: Auto.
- 6. Detector function: Peak.
- 7. Trace: Max hold.

Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

## 7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) PEAK POWER TEST SETUP



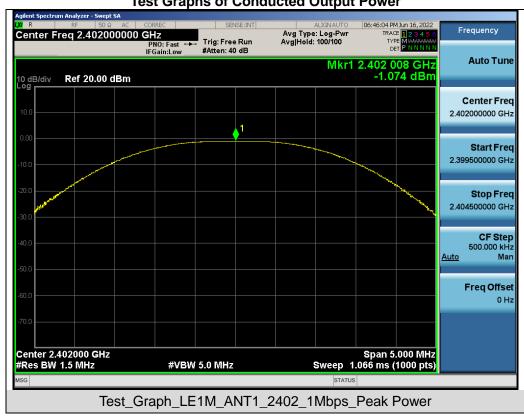


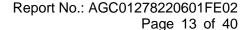
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### 7.3. LIMITS AND MEASUREMENT RESULT

Test Data of Conducted Output Power						
Test Mode	Test Channel (MHz)	Peak Power (dBm)	Limits (dBm)	Pass or Fail		
	2402	-1.074	≤30	Pass		
GFSK 1M	2440	0.407	≤30	Pass		
	2480	1.629	≤30	Pass		

**Test Graphs of Conducted Output Power** 













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### 8. BANDWIDTH

#### **8.1. MEASUREMENT PROCEDURE**

#### 6dB bandwidth:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 kHz, VBW ≥ 3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

#### Occupied bandwidth:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hoping channel
  The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video
  bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
- 4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

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

The same as described in section 7.2.

#### 8.3. LIMITS AND MEASUREMENT RESULTS

Test Data of Occupied Bandwidth and DTS Bandwidth						
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-6dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail	
	2402	1.032	0.521	≥0.5	Pass	
GFSK 1M	2440	1.029	0.514	≥0.5	Pass	
	2480	1.019	0.507	≥0.5	Pass	





**Test Graphs of Occupied Bandwidth** 06:45:37 PM Jun 16, 2022 Radio Std: None Frequency Center Freq: 2.402000000 GHz Center Freq 2.402000000 GHz Avg|Hold: 10/10 Trig: Free Run #Atten: 30 dB #IFGain:Low Radio Device: BTS Ref 30.00 dBm Center Freq 2.402000000 GHz Span 3 MHz Sweep 4.133 ms Center 2.402 GHz #Res BW 30 kHz CF Step 300.000 kHz **#VBW 100 kHz** Mar 3.62 dBm **Total Power** Occupied Bandwidth 1.0322 MHz Freq Offset 0 Hz 16.362 kHz 99.00 % **Transmit Freq Error OBW Power** -26.00 dB x dB Bandwidth 1.232 MHz x dB STATUS Test\_Graph\_LE1M\_ANT1\_2402\_1Mbps\_OBW 06:50:24 PM Jun 16, 2022 Frequency Center Freq: 2.440000000 GHz
Trig: Free Run Avg|Hol Radio Std: None Center Freg 2.440000000 GHz Avg|Hold:>10/10 #IFGain:Low Radio Device: BTS Ref 30.00 dBm Center Freq 2.440000000 GHz Center 2.44 GHz #Res BW 30 kHz Span 3 MHz Sweep 4.133 ms CF Step 300.000 kHz **#VBW 100 kHz** Man **Total Power** 5.04 dBm Occupied Bandwidth 1.0286 MHz Freq Offset 21.716 kHz **OBW Power** 99.00 % Transmit Freq Error x dB Bandwidth 1.246 MHz x dB -26.00 dB

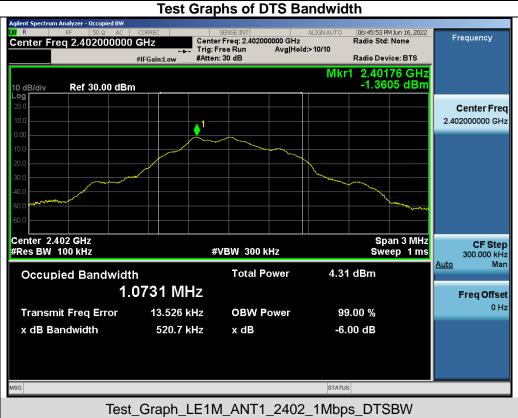
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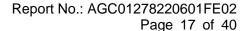
Test\_Graph\_LE1M\_ANT1\_2440\_1Mbps\_OBW



















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## 9. CONDUCTED SPURIOUS EMISSION

### 9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

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

The same as described in section 7.2.

#### 9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

#### 9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT					
Annii abla I inii	Measurement Re	sult			
Applicable Limits	Test Data	Criteria			
In any 100 kHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power.	At least -20dBc than the reference level	PASS			



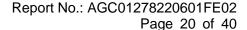


Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands

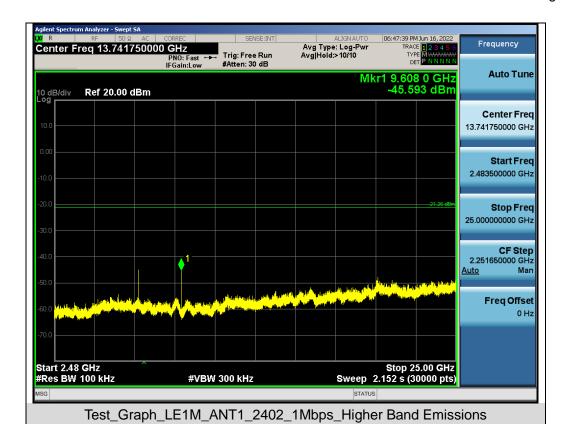


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Test\_Graph\_LE1M\_ANT1\_2402\_1Mbps\_Lower Band Emissions



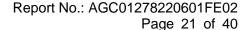




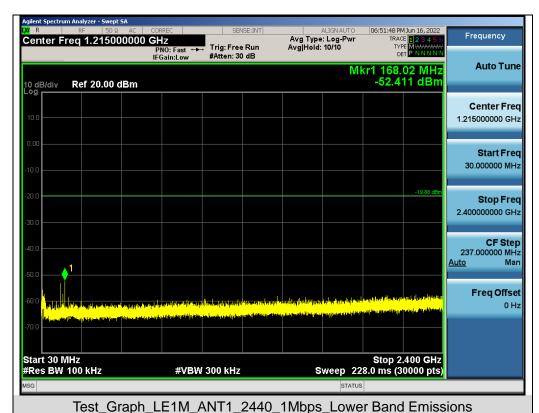


Test\_Graph\_LE1M\_ANT1\_2440\_1Mbps\_Reference Level

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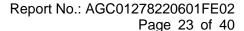




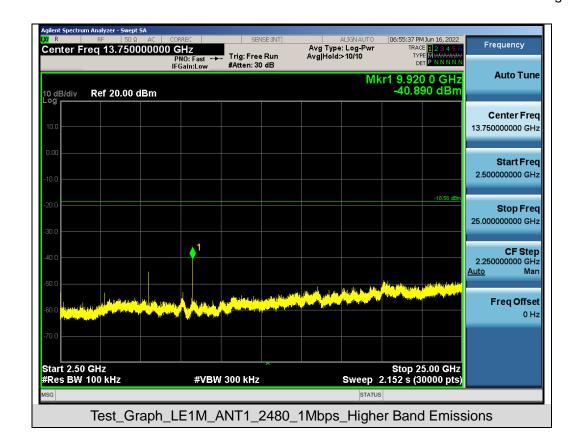


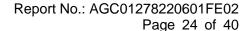


06:54:59 PM Jun 16, 2022 Avg Type: Log-Pwr Avg|Hold: 10/10 Frequency Center Freq 1.215000000 GHz Trig: Free Run #Atten: 30 dB PNO: Fast IFGain:Low **Auto Tune** Mkr1 168.02 MHz -52.141 dBm 10 dB/div Ref 20.00 dBm Center Freq 1.215000000 GHz Start Freq 30.000000 MHz Stop Frea 2.400000000 GHz **CF Step** 237.000000 MHz Man **Auto** Freq Offset 0 Hz Start 30 MHz #Res BW 100 kHz Stop 2.400 GHz Sweep 228.0 ms (30000 pts) #VBW 300 kHz Test\_Graph\_LE1M\_ANT1\_2480\_1Mbps\_Lower Band Emissions



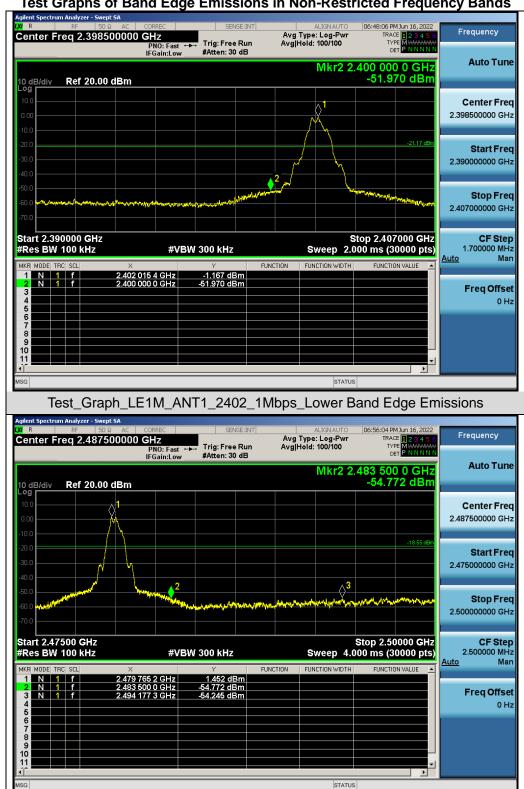








Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands



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Test\_Graph\_LE1M\_ANT1\_2480\_1Mbps\_Higher Band Edge Emissions



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## 10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

#### 10.1. MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set the SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the KDB 558074 item 8.4 was used in this testing.

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

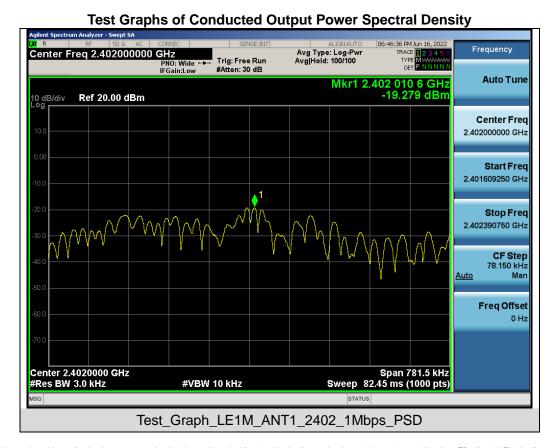
Refer to Section 7.2.

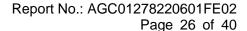
#### 10.3. MEASUREMENT EQUIPMENT USED

Refer to Section 6.

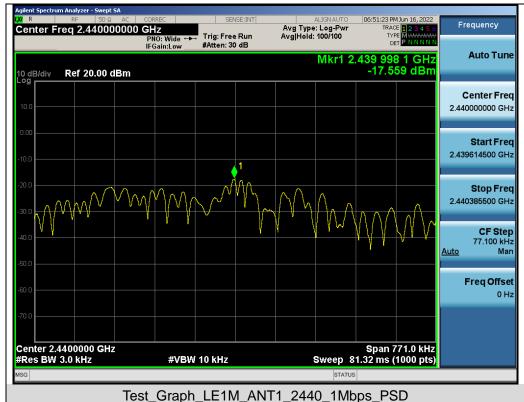
#### 10.4. LIMITS AND MEASUREMENT RESULT

Test Data of Conducted Output Power Spectral Density						
Test Mode	Test Channel (MHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail		
	2402	-19.279	<b>≤8</b>	Pass		
GFSK 1M	2440	-17.559	<b>≤8</b>	Pass		
	2480	-16.326	≪8	Pass		











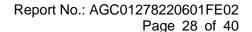


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## 11. RADIATED EMISSION

#### 11.1. MEASUREMENT PROCEDURE

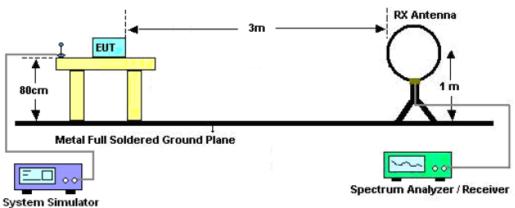
- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated 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 emission, 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 1MHz RBW and 3MHz VBW for peak reading. 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.



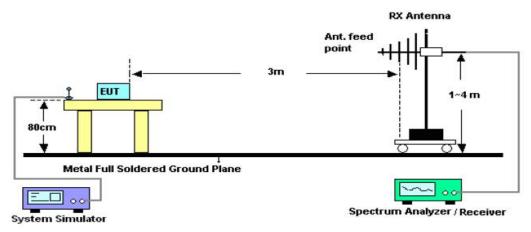


### 11.2. TEST SETUP

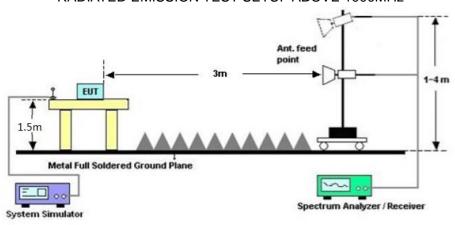
## Radiated Emission Test-Setup Frequency Below 30MHz



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



## RADIATED EMISSION TEST SETUP ABOVE 1000MHz





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## 11.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

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

Note: All modes were tested for restricted band radiated emission, the test records reported below are the worst result compared to other modes.

### 11.4. TEST RESULT

#### Radiated emission below 30MHz

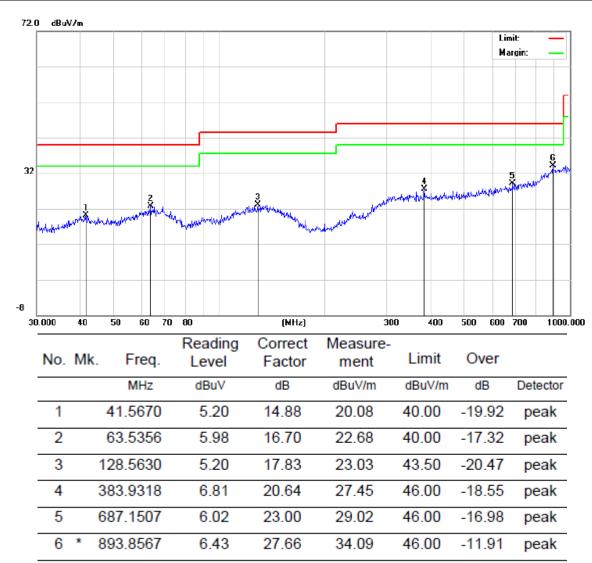
The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.



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### Radiated emission from 30MHz to 1000MHz

EUT	LINK True Wireless Earphones	Model Name	MA-3050
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

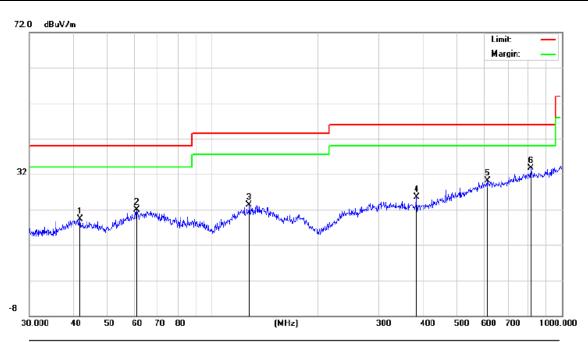


**RESULT: PASS** 



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EUT	LINK True Wireless Earphones	Model Name	MA-3050
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		41.8596	4.62	14.77	19.39	40.00	-20.61	peak
2		60.9176	5.04	16.89	21.93	40.00	-18.07	peak
3		127.6645	5.33	18.07	23.40	43.50	-20.10	peak
4		383.9318	6.36	19.06	25.42	46.00	-20.58	peak
5		614.2142	5.06	24.98	30.04	46.00	-15.96	peak
6	*	815.9678	6.19	27.45	33.64	46.00	-12.36	peak

## RESULT: PASS Note:

- 1. Factor=Antenna Factor + Cable loss, Over=Measurement-Limit.
- 2. All test modes had been tested. The mode 3 is the worst case and recorded in the report.



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## Radiated emission above 1GHz

EUT	LINK True Wireless Earphones	Model Name	MA-3050
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- value Type	
4804.000	43.95	0.08	44.03	74	-29.97	peak	
4804.000	35.84	0.08	35.92	54	-18.08	AVG	
7206.000	38.71	2.21	40.92	74	-33.08	peak	
7206.000	31.63	2.21	33.84	54	-20.16	AVG	
		_					

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT	LINK True Wireless Earphones	Model Name	MA-3050
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Value Type	
4804.000	44.78	0.08	44.86	74	-29.14	peak	
4804.000	34.96	0.08	35.04	54	-18.96	AVG	
7206.000	38.71	2.21	40.92	74	-33.08	peak	
7206.000	30.85	2.21	33.06	54	-20.94	AVG	

Remark:

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

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EUT	LINK True Wireless Earphones	Model Name	MA-3050
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
44.39	0.14	44.53	74	-29.47	peak
35.52	0.14	35.66	54	-18.34	AVG
39.41	2.36	41.77	74	-32.23	peak
31.62	2.36	33.98	54	-20.02	AVG
	(dBµV) 44.39 35.52 39.41	(dBµV) (dB) 44.39 0.14 35.52 0.14 39.41 2.36	(dBμV)     (dB)     (dBμV/m)       44.39     0.14     44.53       35.52     0.14     35.66       39.41     2.36     41.77	(dBμV)     (dB)     (dBμV/m)     (dBμV/m)       44.39     0.14     44.53     74       35.52     0.14     35.66     54       39.41     2.36     41.77     74	(dBμV)     (dB)     (dBμV/m)     (dBμV/m)     (dBμV/m)       44.39     0.14     44.53     74     -29.47       35.52     0.14     35.66     54     -18.34       39.41     2.36     41.77     74     -32.23

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

EUT	LINK True Wireless Earphones	Model Name	MA-3050
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4880.000	45.49	0.14	45.63	74	-28.37	peak
4880.000	38.52	0.14	38.66	54	-15.34	AVG
7320.000	40.63	2.36	42.99	74	-31.01	peak
7320.000	32.37	2.36	34.73	54	-19.27	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



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EUT	LINK True Wireless Earphones	Model Name	MA-3050
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.000	44.57	0.22	44.79	74	-29.21	peak
4960.000	35.41	0.22	35.63	54	-18.37	AVG
7440.000	38.69	2.64	41.33	74	-32.67	peak
7440.000	29.62	2.64	32.26	54	-21.74	AVG
Remark:						

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT	LINK True Wireless Earphones	Model Name	MA-3050
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.000	42.57	0.22	42.79	74	-31.21	peak
4960.000	34.12	0.22	34.34	54	-19.66	AVG
7440.000	38.43	2.64	41.07	74	-32.93	peak
7440.000	29.36	2.64	32	54	-22	AVG
Remark:						

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

### **RESULT: PASS**

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=Level-Limit.

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

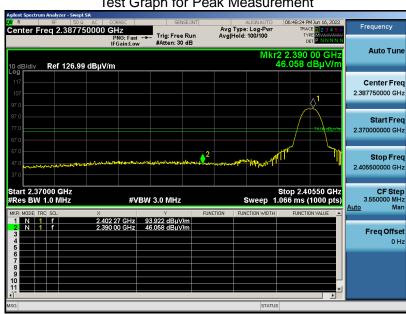




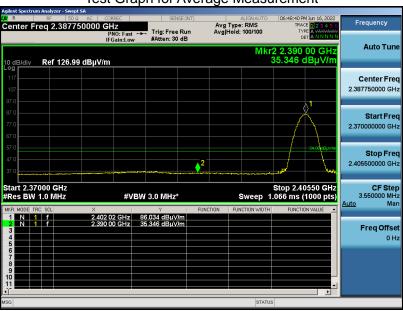
Test result for band edge emission at restricted bands

EUT	LINK True Wireless Earphones	Model Name	MA-3050
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Test Graph for Peak Measurement







**RESULT: PASS** 



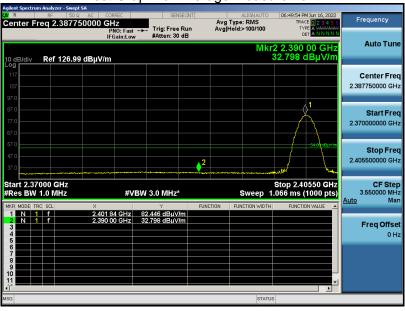


**EUT** LINK True Wireless Earphones MA-3050 **Model Name** 25° C **Temperature Relative Humidity** 55.4% 960hPa **Test Voltage** Normal Voltage **Pressure Test Mode** Mode 1 **Antenna** Vertical

Test Graph for Peak Measurement







**RESULT: PASS** 



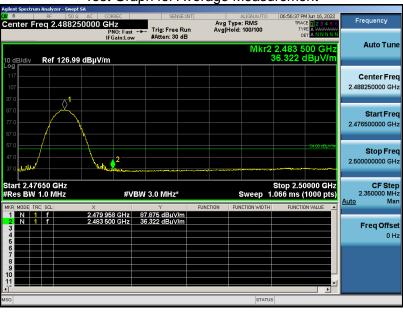


**EUT** LINK True Wireless Earphones MA-3050 **Model Name** 25° C **Temperature Relative Humidity** 55.4% 960hPa **Test Voltage** Normal Voltage **Pressure Test Mode** Mode 3 **Antenna** Horizontal

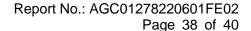
Test Graph for Peak Measurement







**RESULT: PASS** 



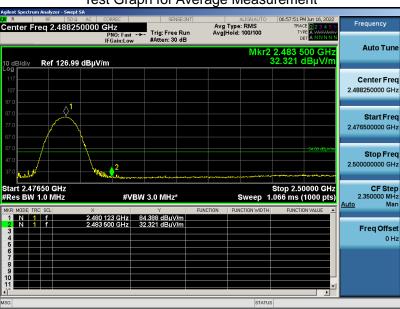


**EUT** MA-3050 LINK True Wireless Earphones **Model Name** 25° C **Temperature Relative Humidity** 55.4% 960hPa Normal Voltage **Pressure Test Voltage Test Mode** Mode 3 **Antenna** Vertical

Test Graph for Peak Measurement







### **RESULT: PASS**

Note: The factor had been edited in the "Input Correction" of the Spectrum Analyzer.



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

Refer to the Report No.: AGC01278220601AP01

APPENDIX B: PHOTOGRAPHS OF EUT Refer to the Report No.: AGC01278220601AP02

----END OF REPORT----



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