
FCC Test Report

Report No.: AGC01612220802FE03B

FCC ID : WRAWPM-500TX
APPLICATION PURPOSE : FCC Class II
PRODUCT DESIGNATION : Wireless Monitor Headphones
BRAND NAME : TAKSTAR
MODEL NAME : WPM-500
APPLICANT : GUANGDONG TAKSTAR ELECTRONIC CO., LTD.
DATE OF ISSUE : Mar. 30, 2023
STANDARD(S) : FCC Part 15 Rules
TEST PROCEDURE(S)
REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Mar. 30, 2023	Valid	Initial Release

Note: The original test report AGC01612220802FE03(dated Sep. 22, 2022 and tested from Aug. 26, 2022 to Sep. 22, 2022) was modified on Mar. 30, 2023, including the following changes and additions:

-Change the electronic component (including R24 resistance, L3 magnetic beads, C21 capacitance), Just charging optimization, does not affect RF parameters

Based on the above changes, additional tests for conducted emission and radiation emission are required.

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1. VERIFICATION OF CONFORMITY

Applicant	GUANGDONG TAKSTAR ELECTRONIC CO., LTD.
Address	DINGGANG, NO.5 TEAM, XIALIAO VILLAGE, LONGXI TOWN, BOLUO COUNTY, HUIZHOU CITY, GUANGDONG, CHINA
Manufacturer	GUANGDONG TAKSTAR ELECTRONIC CO., LTD.
Address	DINGGANG, NO.5 TEAM, XIALIAO VILLAGE, LONGXI TOWN, BOLUO COUNTY, HUIZHOU CITY, GUANGDONG, CHINA
Factory	GUANGDONG TAKSTAR ELECTRONIC CO., LTD.
Address	DINGGANG, NO.5 TEAM, XIALIAO VILLAGE, LONGXI TOWN, BOLUO COUNTY, HUIZHOU CITY, GUANGDONG, CHINA
Product Designation	Wireless Monitor Headphones
Brand Name	TAKSTAR
Test Model	WPM-500
Date of receipt of test item	Mar. 17, 2023
Date of test	Mar. 17, 2023 to Mar. 30, 2023
Deviation	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-BR/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 Rules Part 15.249.

Prepared By

Alan Duan

Eder Zhan
(Project Engineer)

Mar. 30, 2023

Reviewed By

Calvin Liu

Calvin Liu
(Reviewer)

Mar. 30, 2023

Approved By

Max Zhang

Max Zhang
(Authorized Officer)

Mar. 30, 2023

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	2402 MHz to 2480 MHz
Maximum field strength	93.02dBuV/m(average)@3m
Modulation	GUASS
Number of channels	79
Antenna Gain	4.82dBi
Antenna Designation	PCB Antenna(Met 15.203 Antenna requirement)
Hardware Version	WPM-500_TX_V1.4
Software Version	TAKSTAR WPM500 TX V1.2.24
Power Supply	DC 3.7V by battery or DC 5V by adapter

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2.2. TABLE OF CARRIER FREQUENCY

Channel	Frequency (GHz)	Channel	Frequency (GHz)
00	2.402	41	2.443
01	2.403	42	2.444
02	2.404	43	2.445
03	2.405	44	2.446
04	2.406	45	2.447
05	2.407	46	2.448
06	2.408	47	2.449
07	2.409	48	2.450
08	2.410	49	2.451
09	2.411	50	2.452
10	2.412	51	2.453
11	2.413	52	2.454
12	2.414	53	2.455
13	2.415	54	2.456
14	2.416	55	2.457
15	2.417	56	2.458
16	2.418	57	2.459
17	2.419	58	2.460
18	2.420	59	2.461
19	2.421	60	2.462
20	2.422	61	2.463
21	2.423	62	2.464
22	2.424	63	2.465
23	2.425	64	2.466
24	2.426	65	2.467
25	2.427	66	2.468
26	2.428	67	2.469
27	2.429	68	2.470
28	2.430	69	2.471
29	2.431	70	2.472
30	2.432	71	2.473
31	2.433	72	2.474
32	2.434	73	2.475
33	2.435	74	2.476
34	2.436	75	2.477
35	2.437	76	2.478
36	2.438	77	2.479
37	2.439	78	2.480
38	2.440		
39	2.441		
40	2.442		

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3. MEASUREMENT UNCERTAINTY

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

- Uncertainty of Conducted Emission, $U_c = \pm 3.2$ dB
- Uncertainty of Radiated Emission below 1GHz, $U_c = \pm 3.9$ dB
- Uncertainty of Radiated Emission above 1GHz, $U_c = \pm 4.8$ dB
- Uncertainty of Occupied Channel Bandwidth: $U_c = \pm 2$ %

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4. DESCRIPTION OF TEST MODES

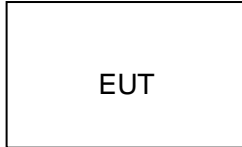
NO.	TEST MODE DESCRIPTION
1	Low channel TX
2	Middle channel TX
3	High channel TX
Note: 1. Only the result of the worst case was recorded in the report, if no other cases. 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode. 3. The EUT adjusts the frequency through the button.	

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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	Wireless Monitor Headphones	WPM-500	WRAWPM-500TX	EUT
2	Adapter	HW-050200C01	N/A	AE
3	PC	D15	N/A	AE
4	Sound card	Solo	N/A	AE

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.249&15.209	Radiated Emission	Compliant
§15.207	Conducted Emission	Compliant

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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 Community, 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 CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Aug. 04, 2022	Aug. 03, 2023
LISN	R&S	ESH2-Z5	100086	Jun. 09, 2022	Jun. 08, 2023
Test software	R&S	ES-K1(Ver.V1.71)	N/A	N/A	N/A

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Feb. 18, 2023	Feb. 17, 2024
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Aug. 04, 2022	Aug. 03, 2023
2.4GHz Fliter	EM Electronics	2400-2500MHz	N/A	Mar. 22, 2022	Mar. 21, 2024
Attenuator	ZHINAN	E-002	N/A	Aug. 03, 2022	Aug. 02, 2024
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	Aug. 03, 2022	Aug. 02, 2024
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 05, 2023	Jan. 04, 2025

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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	
		μ V/m	dB(μ 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(μ V)/m (Peak) 54.0 dB(μ V)/m (Average)	

Remark: (1) Emission level $\text{dB } \mu\text{V} = 20 \log \text{Emission level } \mu\text{V/m}$
(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.

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/10Hz for Average

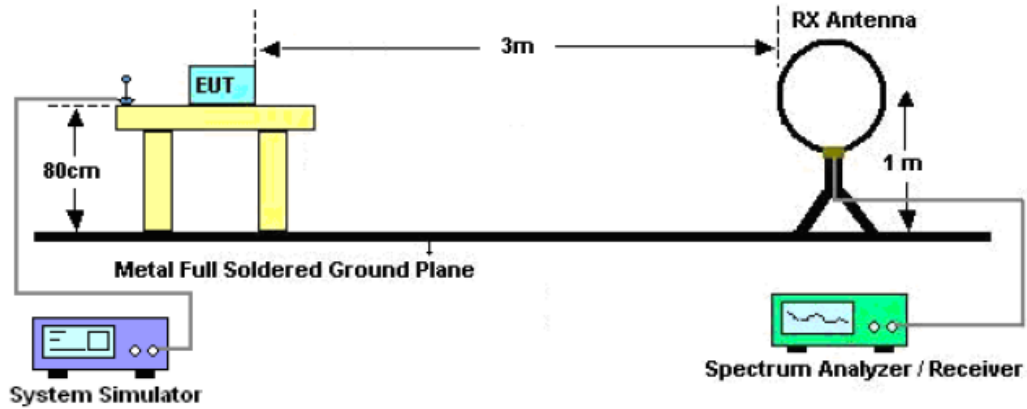
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

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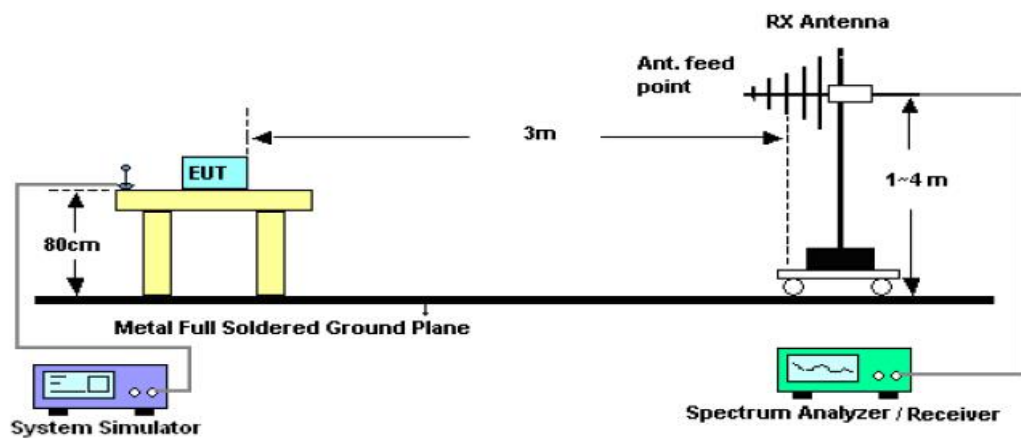
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7.3. TEST SETUP

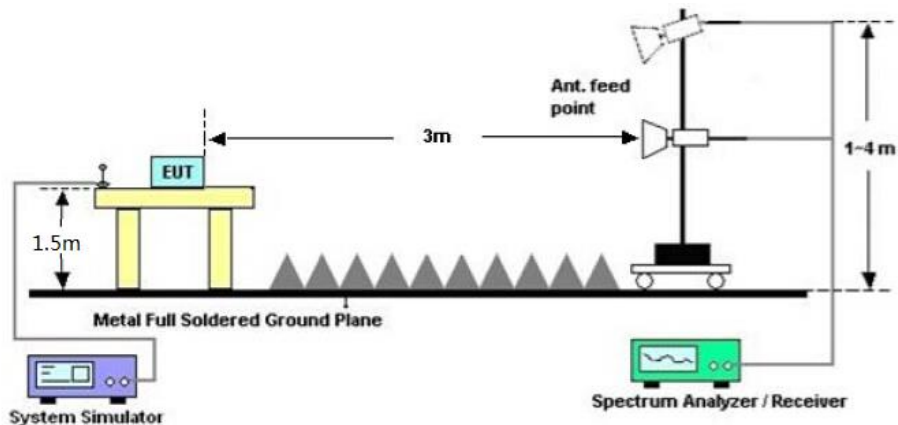
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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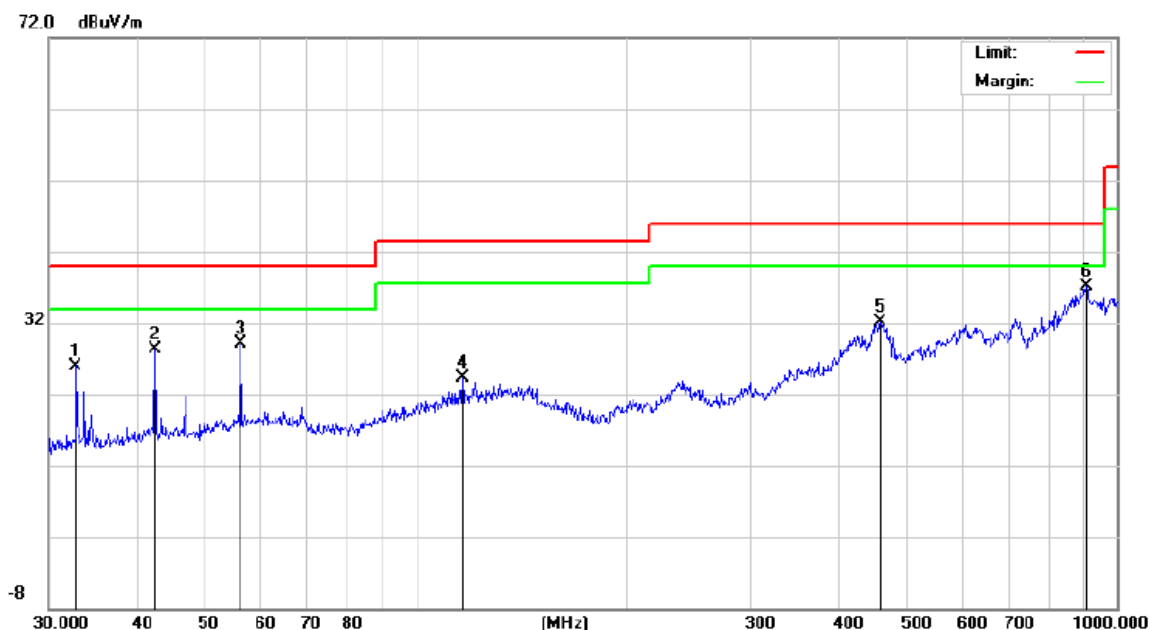
7.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

RADIATED EMISSION 30MHz- 1GHZ

EUT :	Wireless Monitor Headphones	Model Name. :	WPM-500
Temperature :	25 °C	Relative Humidity :	55%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	Mode 1	Polarization :	Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		32.7486	16.04	9.96	26.00	40.00	-14.00	peak
2		42.4508	17.03	11.18	28.21	40.00	-11.79	peak
3		56.1974	16.33	12.76	29.09	40.00	-10.91	peak
4		116.5400	7.79	16.61	24.40	43.50	-19.10	peak
5		459.1143	4.84	27.25	32.09	46.00	-13.91	peak
6	*	903.3093	5.73	31.34	37.07	46.00	-8.93	peak

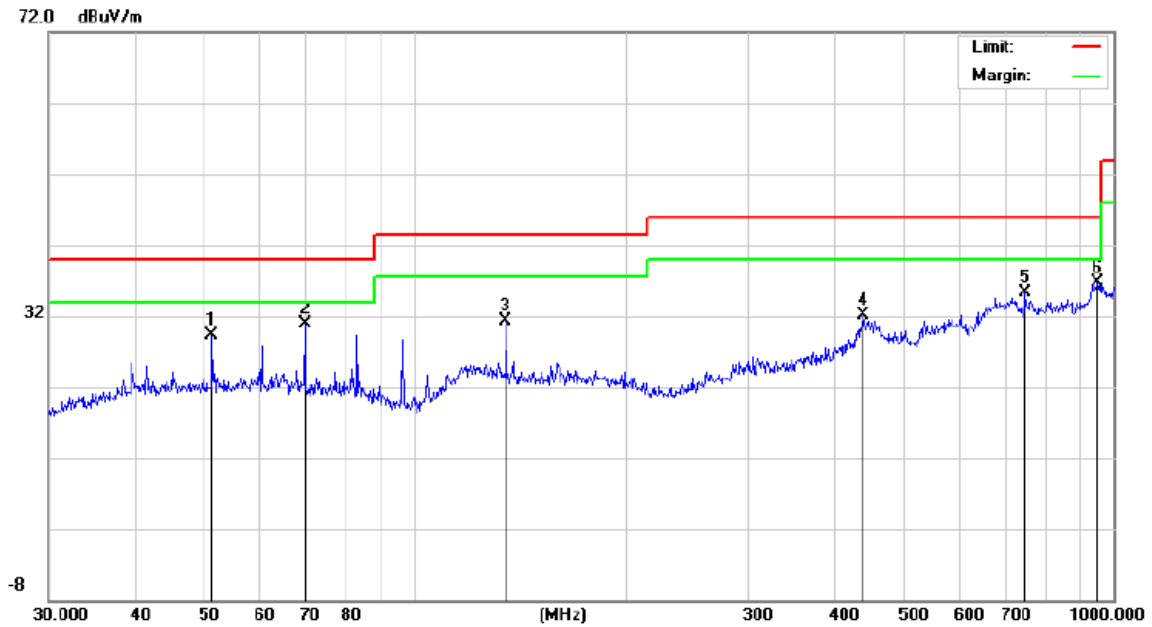
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EUT :	Wireless Monitor Headphones	Model Name. :	WPM-500
Temperature :	25 °C	Relative Humidity :	55%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	Mode 1	Polarization :	Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		51.3004	12.31	17.01	29.32	40.00	-10.68	peak
2	*	69.6004	13.87	17.00	30.87	40.00	-9.13	peak
3		135.0319	12.72	18.57	31.29	43.50	-12.21	peak
4		437.1198	6.38	25.64	32.02	46.00	-13.98	peak
5		747.4825	7.84	27.39	35.23	46.00	-10.77	peak
6		948.7609	6.04	30.65	36.69	46.00	-9.31	peak

RESULT: PASS

Note:

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

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

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FIELD STRENGTH OF FUNDAMENTAL

EUT :	Wireless Monitor Headphones	Model Name. :	WPM-500
Temperature :	25°C	Relative Humidity :	55%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Modulation :	GUASS	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2402	106.80	-9.61	97.19	114.00	-16.81	peak
2402	102.63	-9.61	93.02	94.00	-0.98	AVG
2441	93.23	-9.61	83.62	114.00	-30.38	peak
2441	95.36	-9.61	85.75	94.00	-8.25	AVG
2480	103.42	-9.61	93.81	114.00	-20.19	peak
2480	99.23	-9.61	89.62	94.00	-4.38	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	Wireless Monitor Headphones	Model Name. :	WPM-500
Temperature :	25°C	Relative Humidity :	55%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Modulation :	GUASS	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2402	106.56	-9.61	96.95	114.00	-17.06	peak
2402	102.40	-9.61	92.79	94.00	-1.21	AVG
2441	92.87	-9.61	83.26	114.00	-30.74	peak
2441	89.94	-9.61	80.33	94.00	-13.67	AVG
2480	105.04	-9.61	95.43	114.00	-18.58	peak
2480	100.52	-9.61	90.91	94.00	-3.09	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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RADIATED EMISSION ABOVE 1GHZ

EUT :	Wireless Monitor Headphones	Model Name. :	WPM-500
Temperature :	25°C	Relative Humidity :	55%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	Mode 1	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4804	48.66	3.76	52.42	74.00	-21.58	peak
4804	43.36	3.76	47.12	54.00	-6.88	AVG
7206	42.86	8.17	51.03	74.00	-22.97	peak
7206	38.33	8.17	46.50	54.00	-7.50	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	Wireless Monitor Headphones	Model Name. :	WPM-500
Temperature :	25°C	Relative Humidity :	55%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	Mode 1	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4804	47.86	3.76	51.62	74.00	-22.38	peak
4804	43.72	3.76	47.48	54.00	-6.52	AVG
7206	42.36	8.17	50.53	74.00	-23.47	peak
7206	37.61	8.17	45.78	54.00	-8.22	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT :	Wireless Monitor Headphones	Model Name. :	WPM-500
Temperature :	25°C	Relative Humidity :	55%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	Mode 2	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4882	47.36	3.78	51.14	74.00	-22.86	peak
4882	43.69	3.78	47.47	54.00	-6.53	AVG
7323	43.77	8.23	52.00	74.00	-22.00	peak
7323	39.68	8.23	47.91	54.00	-6.09	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	Wireless Monitor Headphones	Model Name. :	WPM-500
Temperature :	25°C	Relative Humidity :	55%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	Mode 2	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4882	48.69	3.78	52.47	74.00	-21.53	peak
4882	42.72	3.78	46.50	54.00	-7.50	AVG
7323	44.66	8.23	52.89	74.00	-21.11	peak
7323	39.89	8.23	48.12	54.00	-5.88	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT :	Wireless Monitor Headphones	Model Name. :	WPM-500
Temperature :	25°C	Relative Humidity :	55%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	Mode 3	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960	47.69	3.81	51.50	74.00	-22.50	peak
4960	44.36	3.81	48.17	54.00	-5.83	AVG
7440	42.26	8.27	50.53	74.00	-23.47	peak
7440	38.79	8.27	47.06	54.00	-6.94	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	Wireless Monitor Headphones	Model Name. :	WPM-500
Temperature :	25°C	Relative Humidity :	55%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	Mode 3	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960	48.39	3.81	52.20	74.00	-21.80	peak
4960	43.29	3.81	47.10	54.00	-6.90	AVG
7440	44.93	8.27	53.20	74.00	-20.80	peak
7440	40.30	8.27	48.57	54.00	-5.43	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Note: Other emissions from 8G to 25 GHz are considered as ambient noise. No recording in the test report.
Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Level-Limit.
The “Factor” value can be calculated automatically by software of measurement system.

8. FCC LINE CONDUCTED EMISSION TEST

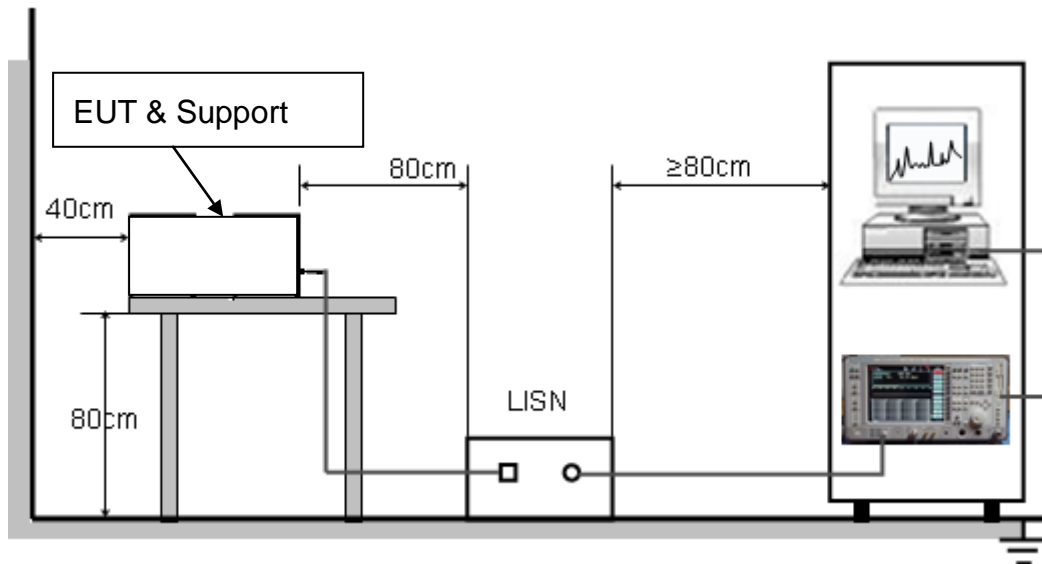
8.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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 0.50MHz.

8.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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8.3. 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 equipments received AC120VV/60Hz power from a LISN, if any.
5. The EUT received charging voltage by adapter which received 120V/60Hz power by a LISN..
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.

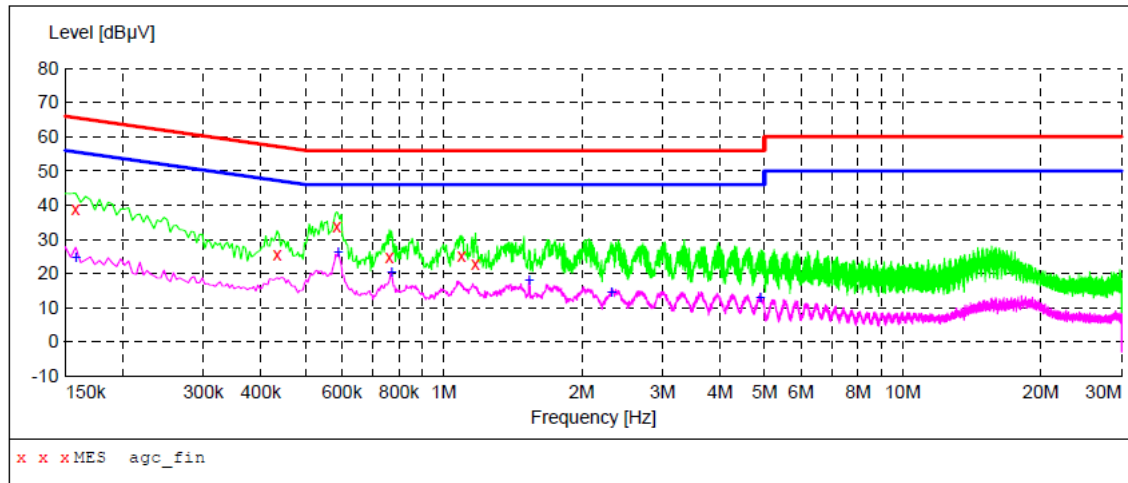
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

8.4. 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.

8.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT: "agc_fin"

2023/3/25 1:09

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.158000	38.90	6.8	66	26.7	QP	L1
0.434000	25.50	5.6	57	31.7	QP	L1
0.586000	33.90	5.4	56	22.1	QP	L1
0.762000	24.70	5.4	56	31.3	QP	L1
1.094000	25.30	5.6	56	30.7	QP	L1
1.174000	22.70	5.7	56	33.3	QP	L1

MEASUREMENT RESULT: "agc_fin2"

2023/3/25 1:09

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.158000	24.80	6.8	56	30.8	AV	L1
0.590000	26.50	5.4	46	19.5	AV	L1
0.770000	20.50	5.4	46	25.5	AV	L1
1.534000	18.30	6.1	46	27.7	AV	L1
2.322000	14.50	6.5	46	31.5	AV	L1
4.894000	13.10	6.6	46	32.9	AV	L1

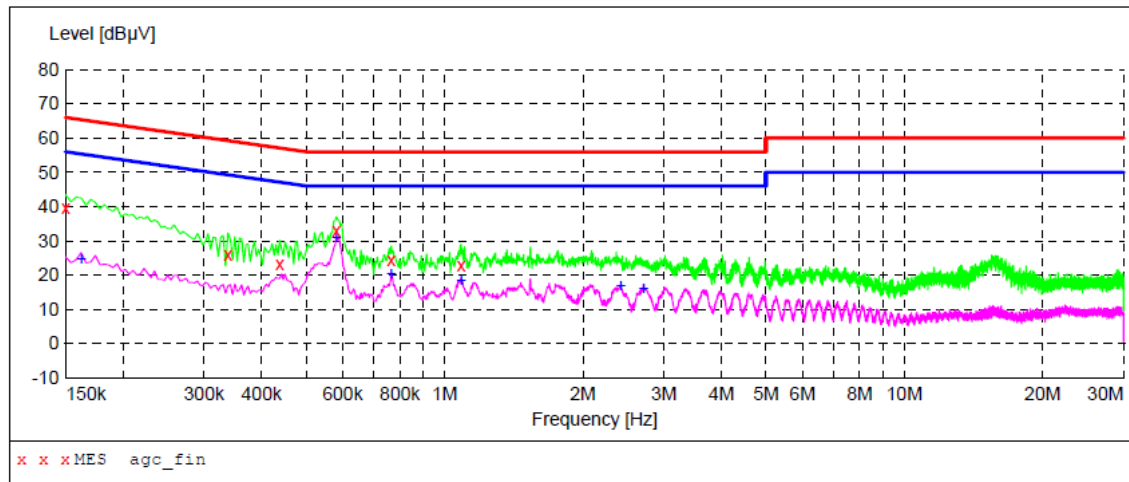
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Line Conducted Emission Test Line 2-N



MEASUREMENT RESULT: "agc_fin"

2023/3/25 1:12

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.150000	39.60	6.9	66	26.4	QP	N
0.338000	25.90	5.9	59	33.4	QP	N
0.438000	23.40	5.6	57	33.7	QP	N
0.582000	32.90	5.4	56	23.1	QP	N
0.766000	24.60	5.4	56	31.4	QP	N
1.086000	22.80	5.6	56	33.2	QP	N

MEASUREMENT RESULT: "agc_fin2"

2023/3/25 1:12

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line
0.162000	24.80	6.8	55	30.6	AV	N
0.582000	30.90	5.4	46	15.1	AV	N
0.766000	20.40	5.4	46	25.6	AV	N
1.086000	18.60	5.6	46	27.4	AV	N
2.414000	16.80	6.5	46	29.2	AV	N
2.710000	16.20	6.5	46	29.8	AV	N

RESULT: PASS

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

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC01612220802AP01B

APPENDIX B: PHOTOGRAPHS OF THE EUT

Refer to the Report No.: AGC01612220802AP02B

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

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