

FCC Test Report

Report No.: AGC01612190802FE02

FCC ID : 2AR8XMH-670

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION: MH670 gaming headphones

BRAND NAME : COOLER MASTER

MODEL NAME : MH-670

APPLICANT : Cooler Master Technology Inc.

DATE OF ISSUE : Sep. 23, 2019

STANDARD(S) : FCC Part 15.247

REPORT VERSION : V1.0

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Sep. 23, 2019	Valid	Initial Release



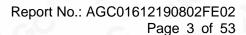




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1. VERIFICATION OF COMPLIANCE

Applicant	Cooler Master Technology Inc.	
Address	8F., No788-1, Zhongzheng Rd., Zhonghe Dist., New Taipei City 23586,Taiwa	
Manufacturer	GUANGDONG TAKSTAR ELECTRONIC CO., LTD.	
Address	DINGGANG, NO.5 TEAM, XIALIAO VILLAGE, LONGXI TOWN, BOLUO COUNTY, HUIZHOU CITY	
Factory	Cooler Master Technology Inc.	
Address	8F., No788-1, Zhongzheng Rd., Zhonghe Dist., New Taipei City 23586, Taiwan	
Product Designation	MH670 gaming headphones	
Brand Name	COOLER MASTER	
Test Model	MH-670	
Date of test	Aug. 28, 2019 to Sep. 23, 2019	
Deviation	None	
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.

Prepared By	Injon Hueng	
c rec _	Donjon Huang (Project Engineer)	Sep. 23, 2019
Reviewed By	Max Zhang	
NGC C	Max Zhang (Reviewer)	Sep. 23, 2019
Approved By	Forrest Di	
CC CC	Forrest Lei (Authorized Officer)	Sep. 23, 2019



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2.GENERAL INFORMATION

2.1PRODUCT DESCRIPTION

The EUT is designed as a "MH670 gaming headphones". 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	2.404 GHz to 2.478GHz		
RF Output Power 1.908dBm(Max)			
Modulation	GFSK		
Number of channels	38 Channel		
Antenna Designation	Two PCB Antenna which cannot support MIMO (Comply with requirements of the FCC part 15.203)		
Antenna Gain	0.4dBi		
Hardware Version V0.3			
Software Version	sion V0.6		
Power Supply DC 3.7V by battery or DC 5V by adapter			

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
100 c	® 1	2404MHZ
	2	2406MHZ
	3	2408MHZ
60 40	4	2410MHZ
	5	2412MHZ
C	6	2414MHZ
2400~2483.5MHZ	7	2416MHZ
2400 -2400.0WII IZ	8	2418MHZ
-6	9	2420MHZ
20	10	2422MHZ
	11 0	2424MHZ
2.C	12	2426MHZ
60	13	2428MHZ



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	14	2430MHZ
8	15	2432MHZ
	16	2434MHZ
	17	2436MHZ
	18	2438MHZ
	19	2440MHZ
	20	2442MHZ
	21	2444MHZ
	22	2446MHZ
	23	2448MHZ
	24	2450MHZ
	25	2452MHZ
	26	2454MHZ
0	27	2456MHZ
	28	2458MHZ
3	29	2460MHZ
	30	2462MHZ
	31	2464MHZ
	32	2466MHZ
	33	2468MHZ
	34	2470MHZ
	35	2472MHZ
	36	2474MHZ
3	37	2476MHZ
-0	38	2478 MHZ

Note: Channel spacing is 2M.





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2.3 RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for **FCC ID: 2AR8XMH-670** filing to comply with the FCC Part 15.247 requirements.

2.4TEST 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 2.2.

2.6 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.





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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%.

- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB
- Uncertainty of total RF power, conducted, Uc = ±0.8dB
- Uncertainty of RF power density, conducted, Uc = ±2.6dB
- Uncertainty of spurious emissions, conducted, Uc = ±2.7dB
- Uncertainty of Occupied Channel Bandwidth: Uc = ±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.
- 4. EUT connects the computer, and then enters the test mode through the test software (VMI debug v1.1.6.56).

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5. SYSTEM TEST CONFIGURATION

5.1 CONFIGURATION OF TESTED SYSTEM

Radiated Emission Configure:

EUT

Conducted Emission Configure :

EUT

AE

5.2 EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1.	MH670 gaming headphones	MH-670	2AR8XMH-670	EUT
2	Adapter	MDY-08-ES	DC5V/2A	Support
3	PC	161301-01	N/A	Support

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 Complian	



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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	Jun. 12, 2019	Jun. 11, 2020
LISN	R&S	ESH2-Z5	100086	Aug. 26, 2019	Aug. 25, 2020

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun. 12, 2019	Jun. 11, 2020
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 20, 2018	Dec. 19, 2019
2.4GHz Fliter	Micro-tronics	087	N/A	Jun. 12, 2019	Jun. 11, 2020
Attenuator	Weinachel Corp	58-30-33	N/A	Jun. 12, 2019	Jun. 11, 2020
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 21, 2017	Sep. 20, 2020
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Jun. 14, 2018	Jun. 13, 2020
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 26, 2018	May. 25, 2020
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 25, 2018	Oct. 24, 2019
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep. 28, 2017	Sep. 27, 2019





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7. PEAK OUTPUT POWER

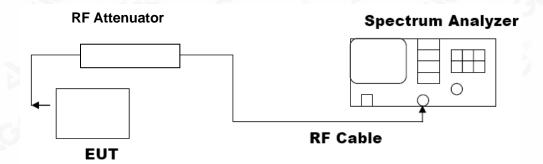
7.1. MEASUREMENT PROCEDURE

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

Antenna 1

PEAK OUTPUT POWER MEASUREMENT RESULT						
	FOR GFSK MOUI	DULATION				
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail			
2.404	1.908	30	Pass			
2.440	1.601	30	Pass			
2.478	1.114	30	Pass			



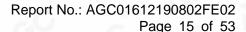




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CH19



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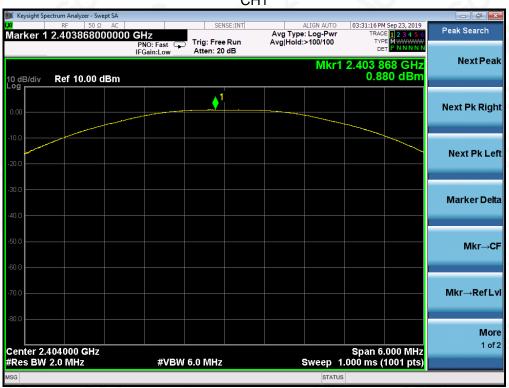


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Antenna 2

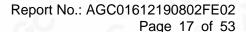
PEAK OUTPUT POWER MEASUREMENT RESULT							
	FOR GFSK MOUDULATION						
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail				
2.404	0.880	30	Pass				
2.440	0.663	30	Pass				
2.478	0.125	30	Pass				

CH1





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CH19



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8. 6 DB BANDWIDTH

8.1. 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 Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW ≥ 3×RBW.
- 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

LIMITS AND MEASUREMENT RESULT					
Applicable Limite		Applicable Limits			
Applicable Limits	Test Data	(kHz)	Criteria		
CC C	Low Channel	1646	PASS		
>500KHZ	Middle Channel	1660	PASS		
	High Channel	1621	PASS		

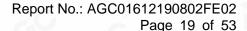
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL





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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



Note: All modes of both antennas were tested, and the report only showed the worst data for the worst antenna (Antenna 1).



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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

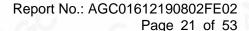
The same as described in section 6.

9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT						
Anatharlia Limita	Measurement Result					
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 PASS				



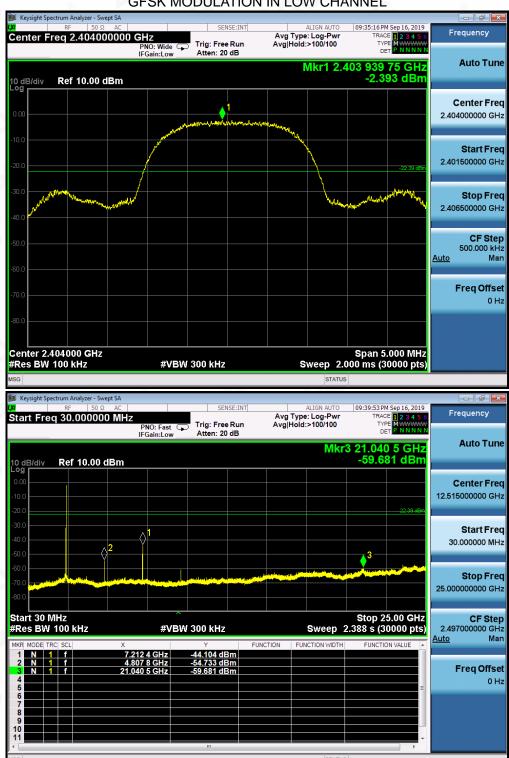
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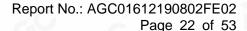


TEST RESULT FOR ENTIRE FREQUENCY RANGE

GFSK MODULATION IN LOW CHANNEL



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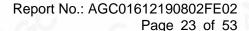






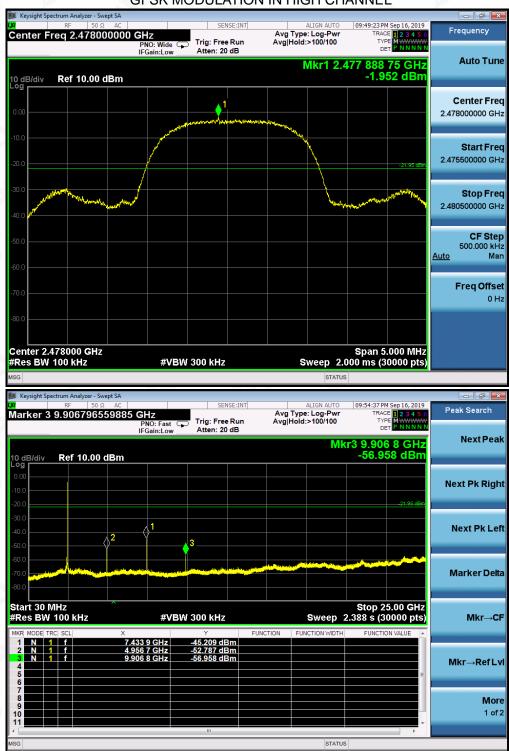


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GFSK MODULATION IN HIGH CHANNEL



Note:

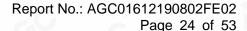
- 1. The peak emissions without marker on the above plots are fundamental wave and need not to compare with the limit.
- 2. All modes of both antennas were tested, and the report only showed the worst data for the worst antenna (Antenna 1).



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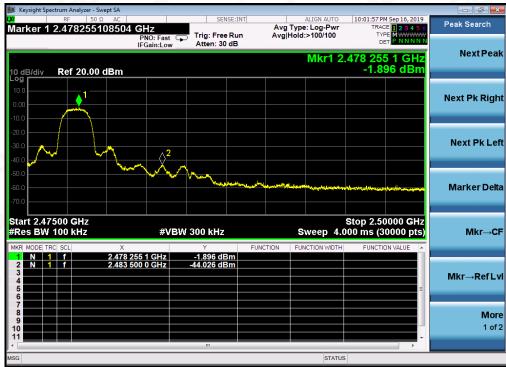


TEST RESULT FOR BAND EDGE

GFSK MODULATION IN LOW CHANNEL



GFSK MODULATION IN HIGH CHANNEL



Note: All modes of both antennas were tested, and the report only showed the worst data for the worst antenna (Antenna 1).



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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 SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the KDB 558074 item 10.2 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

Antenna 1

Channel No.	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	-15.046	8	Pass
Middle Channel	-14.812	8	Pass
High Channel	-15.428	8	Pass

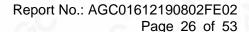
TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL





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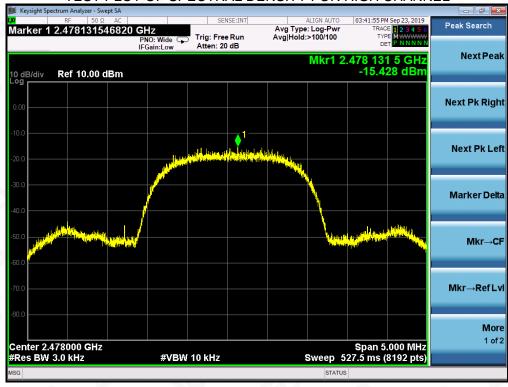




TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



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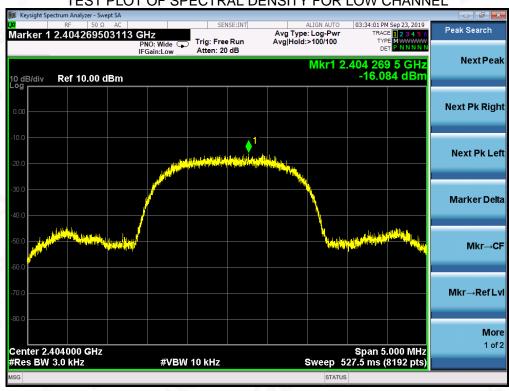


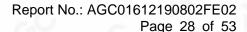
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Antenna 2

Channel No.	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	-16.084	8	Pass
Middle Channel	-16.418	8	Pass
High Channel	-16.768	8	Pass

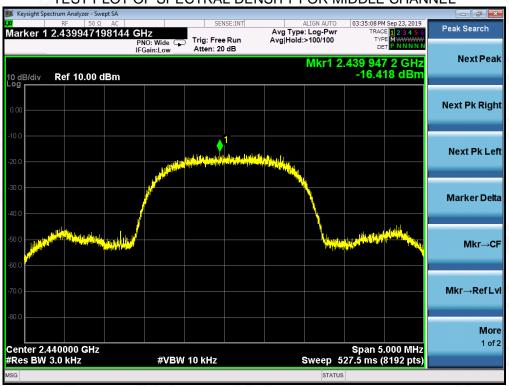
TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



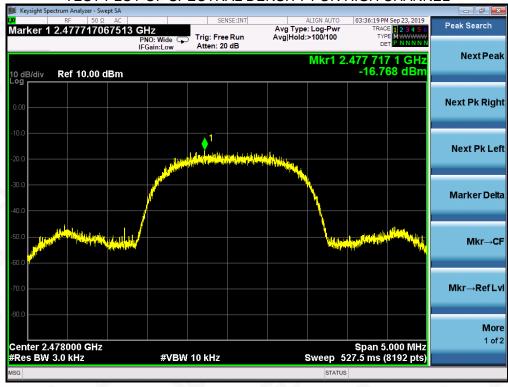




TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



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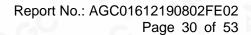
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11. RADIATED EMISSION

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 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 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.

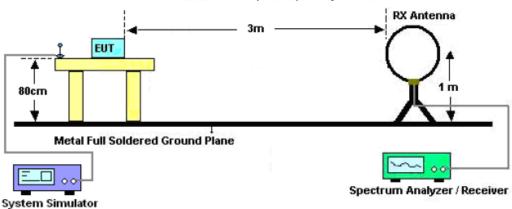




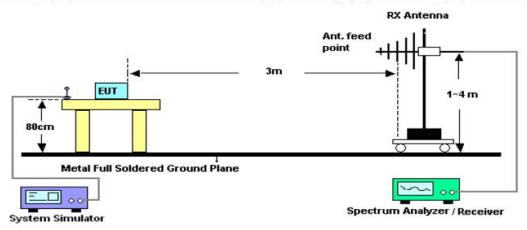


11.2. TEST SETUP

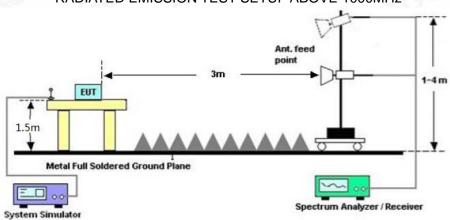
Radiated Emission Test-Setup Frequency Below 30MHz



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 (micorvolts/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

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



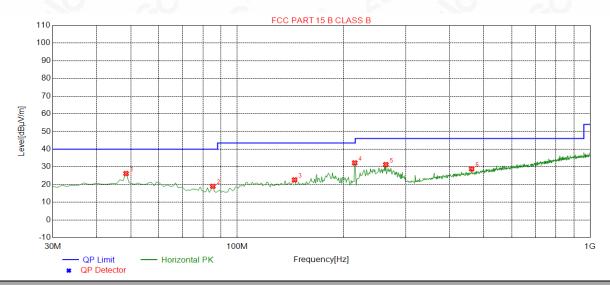
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RADIATED EMISSION BELOW 1GHZ

EUT	MH670 gaming headphones	Model Name	MH-670
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	48.4300	26.22	14.71	40.00	13.78	100	338	Horizontal
2	85.2900	18.98	10.20	40.00	21.02	100	245	Horizontal
3	145.430	22.64	14.88	43.50	20.86	150	297	Horizontal
4	215.270	32.26	12.98	43.50	11.24	100	268	Horizontal
5	263.770	31.28	14.88	46.00	14.72	100	240	Horizontal
6	461.650	28.86	21.23	46.00	17.14	150	288	Horizontal
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RESULT: PASS



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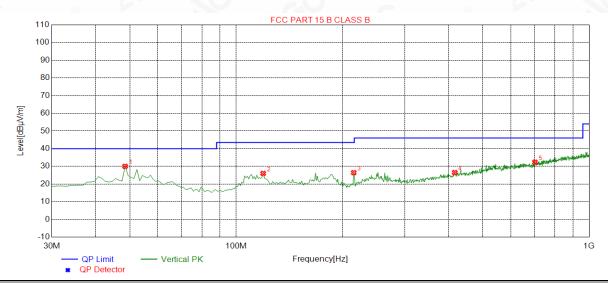
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EUT	MH670 gaming headphones	Model Name	MH-670
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	48.4300	30.01	14.71	40.00	9.99	100	147	Vertical
2	119.240	26.03	13.39	43.50	17.47	100	16	Vertical
3	215.270	26.44	12.98	43.50	17.06	100	221	Vertical
4	416.060	26.50	20.14	46.00	19.50	100	230	Vertical
5	702.210	32.38	26.00	46.00	13.62	100	333	Vertical

RESULT: PASS

Note:

- 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.
- 2. All test modes had been tested. The mode 1 is the worst case and recorded in the report.
- 3. All modes of both antennas were tested, and the report only showed the worst data for the worst antenna (Antenna 1).



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RADIATED EMISSION ABOVE 1GHZ

EUT	MH670 gaming headphones	Model Name	MH-670
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
4808.011	50.31	0.08	50.39	74	-23.61	peak
4808.011	47.1	0.08	47.18	54	-6.82	AVG
7212.022	43.28	2.21	45.49	74	-28.51	peak
7212.022	40.75	2.21	42.96	54	-11.04	AVG
	®				(8)	
\sim		8		- G		(0)
Remark:	- 0		0		100	- 0
actor = Ante	enna Factor + Ca	ble Loss -	Pre-amplifier.			10

EUT	MH670 gaming headphones	Model Name	MH-670
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 Tune
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4808.011	49.17	0.08	49.25	74	-24.75	peak ®
4808.011	45.3	0.08	45.38	54	-8.62	AVG
7212.022	45.1	2.21	47.31	74	-26.69	peak
7212.022	41.54	2.21	43.75	54	-10.25	AVG
_ ((6)					@
		0				
Remark:	10	<i>a.</i> O	8			
actor = Ante	enna Factor + C	able Loss –	Pre-amplifier.	®		





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EUT	MH670 gaming headphones	Model Name	MH-670
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4880.005	48.04	0.14	48.18	74	-25.82	peak
4880.005	44.84	0.14	44.98	54	-9.02	AVG
7320.140	47.16	2.36	49.52	74	-24.48	peak
7320.140	40.5	2.36	42.86	54	-11.14	AVG
-6	0				(0)	
Remark:	60 -		@		100	
actor = Ante	enna Factor + Ca	ble Loss –	Pre-amplifier.			

EUT	MH670 gaming headphones	Model Name	MH-670
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
4880.050	46.34	0.14	46.48	74	-27.52	peak
4880.050	41.81	0.14	41.95	54	-12.05	AVG
7320.080	45.01	2.36	47.37	74	-26.63	peak
7320.080	39.46	2.36	41.82	54	-12.18	AVG
			20		8	
emark:						0
actor = Ante	enna Factor + Ca	ble Loss -	Pre-amplifier.			





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EUT	MH670 gaming headphones	Model Name	MH-670
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
4956.012	45.65	0.22	45.87	74	-28.13	peak
4956.012	40.73	0.22	40.95	54	-13.05	AVG
7434.027	45.84	2.64	48.48	74	-25.52	peak
7434.027	39.17	2.64	41.81	54	-12.19	AVG
-6-	(8)				0	
emark:	90		®		×00	-6
	enna Factor + Ca	ble Loss –	Pre-amplifier.		10	10

EUT	MH670 gaming headphones	Model Name	MH-670
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

(MHz) (dBμV) (dB) 4956.013 44.72 0.22	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4056.012 44.72 0.22	W.V.			
4950.015 44.72 0.22	44.94	74	-29.06	peak
4956.013 39.66 0.22	39.88	54	-14.12	AVG
7434.027 48.06 2.64	50.7	74	-23.3	peak
7434.027 38.32 2.64	40.96	54	-13.04	AVG
8 .0 .0	(a)			
		®		

RESULT: PASS

Note:

1. Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report. Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

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

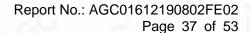
All modes of both antennas were tested, and the report only showed the worst data for the worst antenna (Antenna 1).



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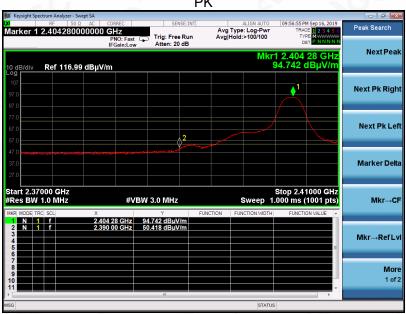




TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

EUT	MH670 gaming headphones	Model Name	MH-670
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal







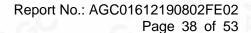
RESULT: PASS



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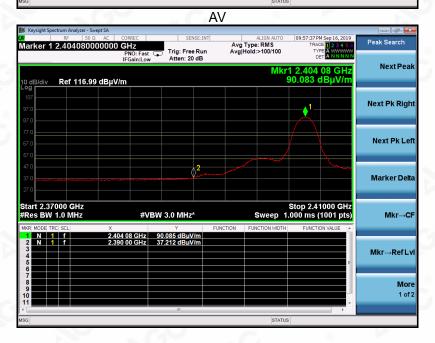
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EUT	MH670 gaming headphones	Model Name	MH-670
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical





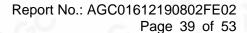
RESULT: PASS



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EUT MH670 gaming headphones **Model Name** MH-670 25° C 55.4% **Temperature Relative Humidity Pressure** 960hPa **Test Voltage** Normal Voltage **Test Mode** Mode 3 **Antenna** Horizontal





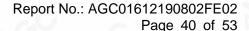
RESULT: PASS



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EUT MH670 gaming headphones **Model Name** MH-670 25° C 55.4% **Temperature Relative Humidity Pressure** 960hPa **Test Voltage** Normal Voltage **Test Mode** Mode 3 **Antenna** Vertical





RESULT: PASS Note:

- 1. 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(μ V) to represent the Amplitude. Use the F dB(μ V/m) to represent the Field Strength. So A=F.
- 2. All modes of both antennas were tested, and the report only showed the worst data for the worst antenna (Antenna 1).



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12. FCC LINE CONDUCTED EMISSION TEST

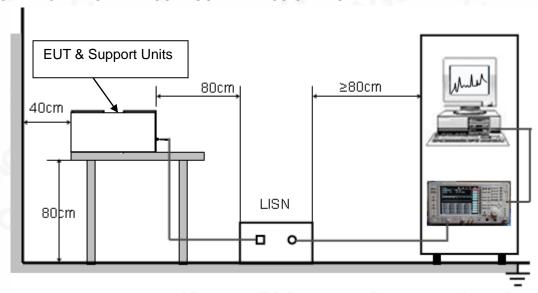
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Francis and s	Maximum R	F Line Voltage
Frequency	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.

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST





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12.3. 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 AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC charging voltage by PC which received AC120V/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.

12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

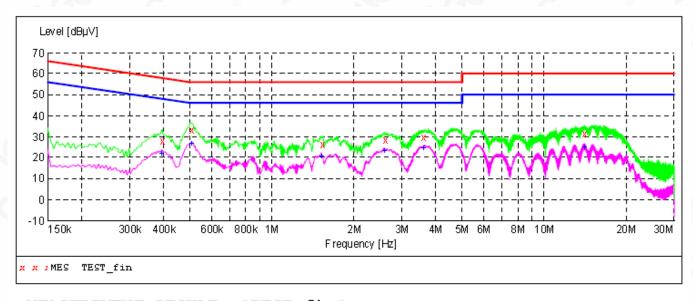
- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were 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.





12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT: "TEST fin"

9/2/2019	9:38AM							
Freque	ncy I		ransd		Margin	Detector	Line	PΕ
1	MH z	dΒμV	đВ	dΒμV	đВ			
			4.0		0.0.4	0.0	T 4	
0.394	JUU 2	27.90	10.3	58	30.1	QP	L1	FLO
0.506	000 3	33,10	11.2	56	22.9	QP	L1	FLO
1,534	000 2	26.20	11.5	56	29.8	QP	L1	FLO
2,598	000 2	28.70	11.5	56	27.3	QP	L1	FLO
3,602	000 2	29,80	11.6	56	26.2	QP	L1	FLO
14.050	000 3	31,40	12.1	60	28.6	QP	L1	FLO

MEASUREMENT RESULT: "TEST fin2"

:/2019 9::	38AM						
Frequency	Level	Transd	Limit	Margin	Detector	Line	PΕ
MHz	dΒμV	đВ	dΒμV	_dB			
0.394000	22,10	10.3	48	25,9	AV	L1	FLO
0.506000	26,50	11.2	46	19,5	AV	L1	FLO
1,526000	20,50	11.5	46	25.5	AV	L1	FLO
2,598000	23,40	11.5	46	22,6	AV	L1	FLO
3,606000	24.70	11,6	46	21.3	AV	L1	FLO
14.050000	25,00	12.1	5.0	25.0	AV	L1	FLO
	Frequency MHz 0.394000 0.506000 1.526000 2.598000 3.606000	Frequency Level dBμV 0.394000 22.10 0.506000 26.50 1.526000 20.50 2.598000 23.40 3.606000 24.70	Frequency MHz Level dBμV Transd dBμV 0.394000 22.10 10.3 0.506000 26.50 11.2 1.526000 20.50 11.5 2.598000 23.40 11.5 3.606000 24.70 11.6	Frequency MHz Level dBμV Transd dBμV Limit dBμV 0.394000 22.10 10.3 48 0.506000 26.50 11.2 46 1.526000 20.50 11.5 46 2.598000 23.40 11.5 46 3.606000 24.70 11.6 46	Frequency MHz Level dBμV Transd dBμV Limit dBμV Margin dB 0.394000 22.10 10.3 48 25.9 0.506000 26.50 11.2 46 19.5 1.526000 20.50 11.5 46 25.5 2.598000 23.40 11.5 46 22.6 3.606000 24.70 11.6 46 21.3	Frequency MHz dBμV dB dBμV dB 0.394000 22.10 10.3 48 25.9 AV 0.506000 26.50 11.2 46 19.5 AV 1.526000 20.50 11.5 46 25.5 AV 2.598000 23.40 11.5 46 22.6 AV 3.606000 24.70 11.6 46 21.3 AV	Frequency MHz Level dBμV Transd dBμV Limit dBμV Margin dB Detector Line dBμV 0.394000 22.10 10.3 48 25.9 AV L1 0.506000 26.50 11.2 46 19.5 AV L1 1.526000 20.50 11.5 46 25.5 AV L1 2.598000 23.40 11.5 46 22.6 AV L1 3.606000 24.70 11.6 46 21.3 AV L1



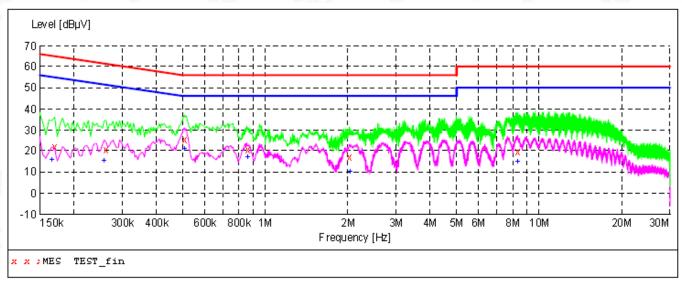
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Line Conducted Emission Test Line 2-N



MEASUREMENT RESULT: "TEST_fin"

9/2/2019	9:18AM							
Freque	ncy L	evel Tr	ansd L	imit Ma	argin	Detector	Line	PΕ
	MHz	dΒμV	đВ	dΒμV	đВ			
0.170	000 2	1,90	10.8	65	43.1	QP	N	FLO
0.262	000 2	0.90	10.9	61	40.5	QP	N	FLO
0,506	000 2	5.70	11,2	56	30.3	QP	N	FLO
0.858	000 2	0.90	11.0	56	35.1	QP	N	FLO
2,030	000 1	7.30	11.5	56	38.7	QP	N	FLO
8,322	000 1	9,60	11.8	60	40.4	QP	N	FLO

MEASUREMENT RESULT: "TEST fin2"

Frequen	9:18AM .cy Level Hz dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.1660	00 16,10	10.8	5.5	39,1	AV	И	FLO
0.2580	00 15,30	10.9	52	36.2	AV	N	FLO
0.5060	00 21.00	11.2	46	25.0	AV	N	FLO
0.8580	00 17.40	11.0	46	28.6	AV	N	FLO
2,0300	00 10.20	11.5	46	35.8	AV	И	FLO
8.3100	00 14.70	11.8	50	35.3	AV	N	FLO

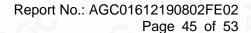
RESULT: PASS

Note: All modes of both antennas were tested, and the report only showed the worst data for the worst antenna (Antenna 1).



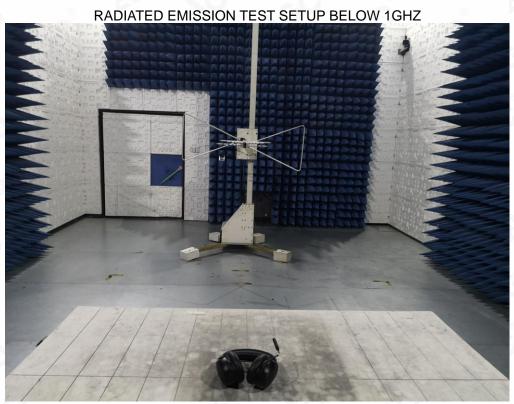
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APPENDIX A: PHOTOGRAPHS OF TEST SETUP







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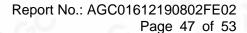
CONDUCTED EMISSION TEST SETUP





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APPENDIX B: PHOTOGRAPHS OF EUT

ALL VIEW OF EUT



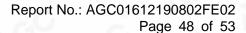
TOP VIEW OF EUT





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BOTTOM VIEW OF EUT



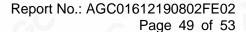
FRONT VIEW OF EUT





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BACK VIEW OF EUT



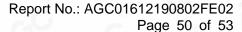
LEFT VIEW OF EUT





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RIGHT VIEW OF EUT



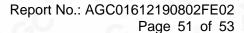
OPEN VIEW OF EUT-1





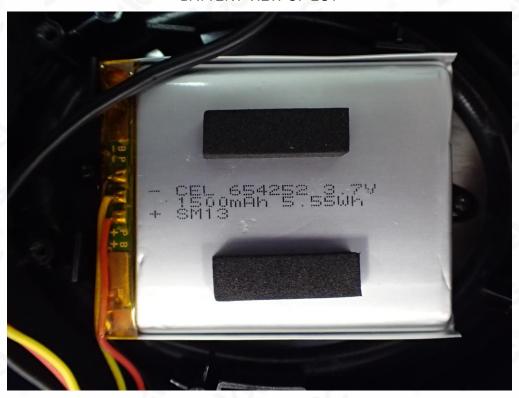
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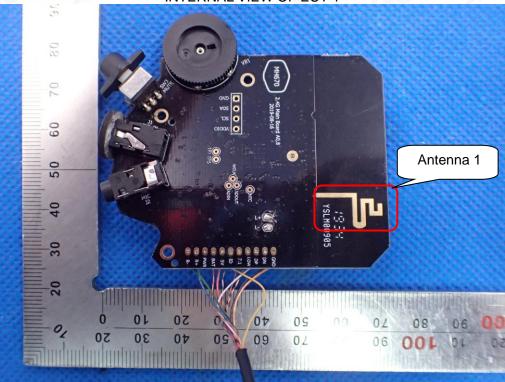




BATTERY VIEW OF EUT



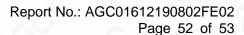






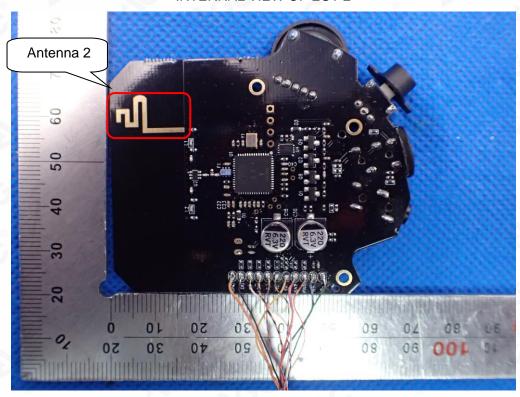
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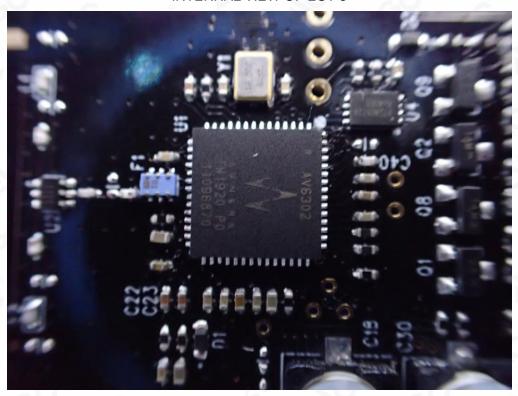




INTERNAL VIEW OF EUT-2



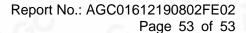
INTERNAL VIEW OF EUT-3





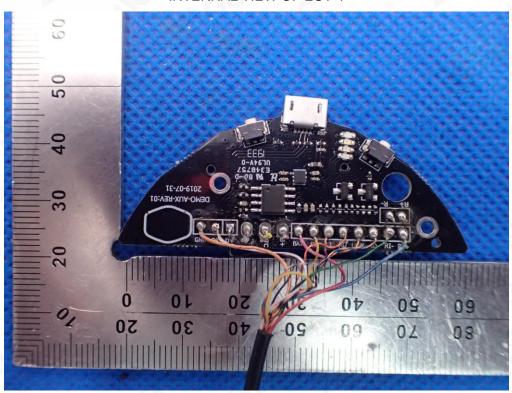
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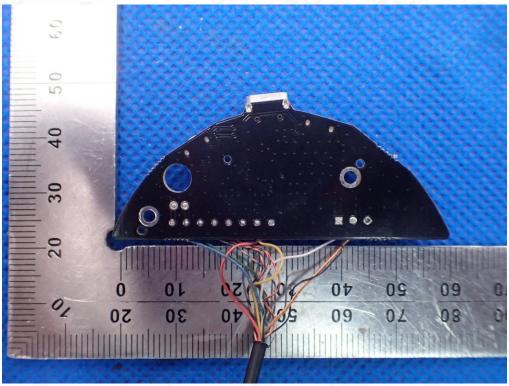




INTERNAL VIEW OF EUT-4



INTERNAL VIEW OF EUT-5



----END OF REPORT----



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