

FCC Test Report

Report No.: AGC01110230541FE02

FCC ID	: 2AOKB-A3035
APPLICATION PURPOSE	: Original Equipment
PRODUCT DESIGNATION	: Wireless Headphone
BRAND NAME	: soundcore
MODEL NAME	: A3035
APPLICANT	: Anker Innovations Limited
DATE OF ISSUE	: Jun. 12, 2023
STANDARD(S)	: FCC Part 15.247
REPORT VERSION	: V1.0
<u>Attestation of (</u>	Flobal Compliance (Shenzhen) Co., Ltd





REPORT REVISE RECORD

Report Version	Revise Time	Issued Date Valid Version		Notes
V1.0	/	Jun. 12, 2023	Valid	Initial Release



TABLE OF CONTENTS

1		5
2	. GENERAL INFORMATION	6
	2.1. PRODUCT DESCRIPTION	6
	2.2. TABLE OF CARRIER FREQUENCYS	6
	2.3. RELATED SUBMITTAL(S)/GRANT(S)	7
	2.4. TEST METHODOLOGY	7
	2.5. SPECIAL ACCESSORIES	
	2.6. EQUIPMENT MODIFICATIONS	
	2.7. ANTENNA REQUIREMENT	7
3	. MEASUREMENT UNCERTAINTY	8
4	. DESCRIPTION OF TEST MODES	9
5	. SYSTEM TEST CONFIGURATION	10
	5.1. CONFIGURATION OF TESTED SYSTEM	10
	5.2. EQUIPMENT USED IN TESTED SYSTEM	10
	5.3. SUMMARY OF TEST RESULTS	10
6	. TEST FACILITY	11
7	. PEAK OUTPUT POWER	12
	7.1. MEASUREMENT PROCEDURE	12
	7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	12
	7.3. LIMITS AND MEASUREMENT RESULT	13
8	. BANDWIDTH	17
	8.1. MEASUREMENT PROCEDURE	17
	8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	17
	8.3. LIMITS AND MEASUREMENT RESULTS	17
9	. CONDUCTED SPURIOUS EMISSION	24
	9.1. MEASUREMENT PROCEDURE	24
	9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	24
	9.3. MEASUREMENT EQUIPMENT USED	24
	9.4. LIMITS AND MEASUREMENT RESULT	24

Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.



10.1. MEASUREMENT PROCEDURE	36
10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	36
10.3. MEASUREMENT EQUIPMENT USED	36
10.4. LIMITS AND MEASUREMENT RESULT	36
11. RADIATED EMISSION	40
11.1. MEASUREMENT PROCEDURE	40
11.2. TEST SETUP	41
11.3. LIMITS AND MEASUREMENT RESULT	42
11.4. TEST RESULT	42
12. LINE CONDUCTED EMISSION TEST	56
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST	56
12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST	56
12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST	57
12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST	57
12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST	57
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	58
APPENDIX B: PHOTOGRAPHS OF EUT	58



1. VERIFICATION OF COMPLIANCE

Applicant	Anker Innovations Limited
Address	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong
Manufacturer	Anker Innovations Limited
Address	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong
Product Designation	Wireless Headphone
Brand Name	soundcore
Test Model	A3035
Date of receipt of test item	May 31, 2023
Date of test	May 31, 2023 to Jun. 12, 2023
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.

Prepared By

Alan Duan (Project Engineer)

Jun. 12, 2023

Reviewed By

Calvin Liu (Reviewer)

Jun. 12, 2023

Approved By

Max 2ra

Max Zhang (Authorized Officer)

Jun. 12, 2023



2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as a "Wireless Headphone". 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	6.159dBm (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	PCB Antenna (Comply with requirements of the FCC part 15.203)
Antenna Gain	3.1dBi
Hardware Version	D
Software Version	V1.1.9
Power Supply	DC 3.72V by battery

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		



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

This submittal(s) (test report) is intended for FCC ID: 2AOKB-A3035 filing 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.



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%.

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	$U_{c} = \pm 2.7 \%$
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$



4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel TX_2402MHz_GFSK_1Mbps
2	Middle channel TX_2440MHz_GFSK_1Mbps
3	High channel TX_2480MHz_GFSK_1Mbps
4	Low channel TX_2402MHz_GFSK_2Mbps
5	Middle channel TX_2440MHz_GFSK_2Mbps
6	High channel TX_2480MHz_GFSK_2Mbps

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.

Software Setting

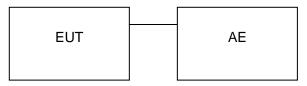
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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF TESTED SYSTEM

Radiated Emission Configure:



5.2. EQUIPMENT USED IN TESTED SYSTEM

ltem	Equipment	Model No.	ID or Specification	Remark
1	Wireless Headphone	A3035	2AOKB-A3035	EUT
2	iPod	MGG82ZP/A	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.



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 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 Filter	EM Electronics	N/A	N/A	Mar. 18, 2022	Mar. 19, 2024
Attenuator	ZHINAN	E-002	N/A	Aug. 04, 2022	Aug. 03, 2024
Horn Antenna	SCHWARZBEC	BBHA9170	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	3117	00034609	Apr. 23, 2023	Apr. 22, 2024
Double-Ridged Waveguide Horn	ETS	3117	00154520	Sep. 06, 2021	Sep. 05, 2023
Preamplifier Assembly	ETS	3117PA	00225134	Sep. 01, 2022	Sep. 02, 2024
Wideband Antenna	SCHWARZBECK	VULB9168	VULB9168-49 4	Jan. 05, 2023	Jan. 04, 2025
Test software	FARA	EZ-EMC (Ver RA-03A)	N/A	N/A	N/A



7. PEAK OUTPUT POWER

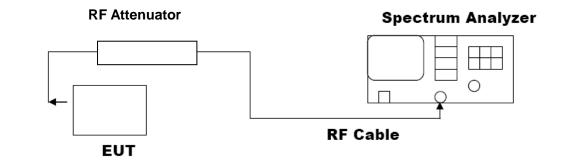
7.1. MEASUREMENT PROCEDURE

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

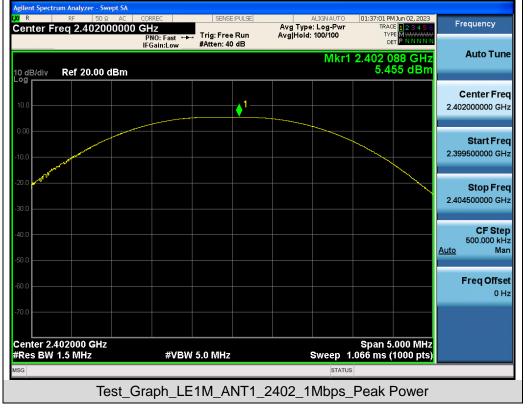




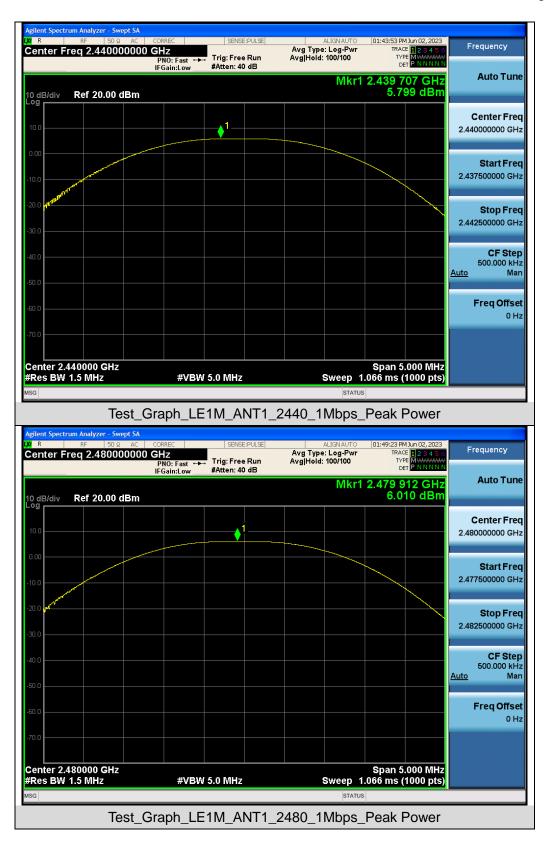
7.3. LIMITS AND MEASUREMENT RESULT

Test Data of Conducted Output Power				
Test Mode	Test Channel (MHz)	Peak Power (dBm)	Limits (dBm)	Pass or Fail
	2402	5.455	≪30	Pass
GFSK 1M	2440	5.799	≪30	Pass
	2480	6.010	≪30	Pass
GFSK 2M	2402	5.513	≪30	Pass
	2440	5.893	≪30	Pass
	2480	6.159	≪30	Pass

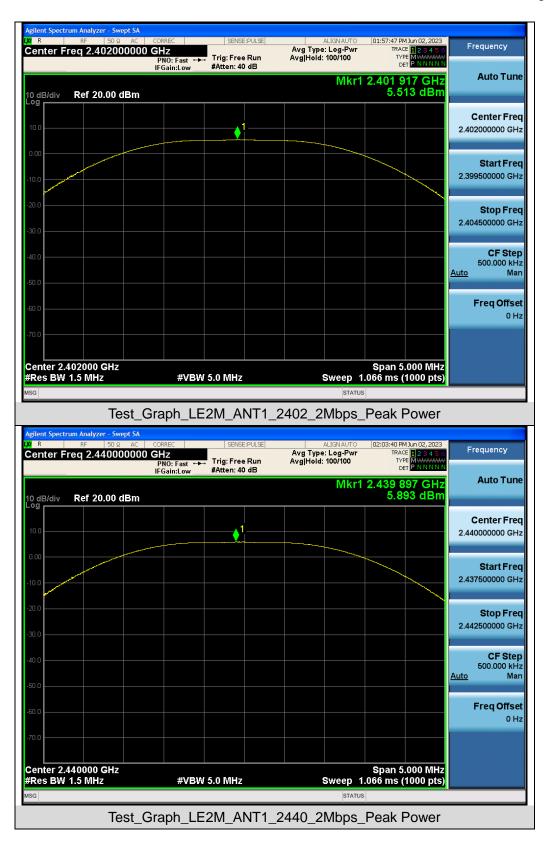
Test Graphs of Conducted Output Power



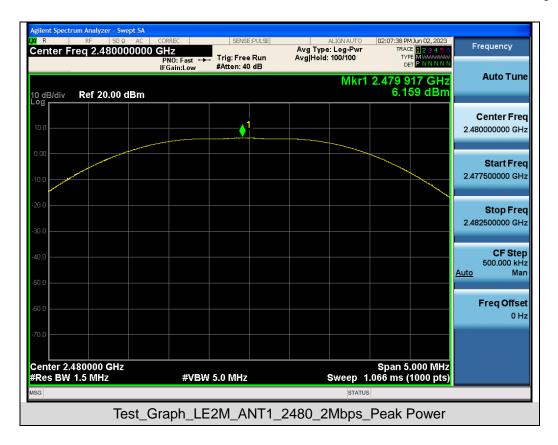














8. BANDWIDTH

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 \ge 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.

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
GFSK 1M	2402	1.007	0.661	≥0.5	Pass
	2440	1.008	0.666	≥0.5	Pass
	2480	1.007	0.669	≥0.5	Pass
GFSK 2M	2402	1.960	1.147	≥0.5	Pass
	2440	1.958	1.145	≥0.5	Pass
	2480	1.957	1.148	≥0.5	Pass

8.3. LIMITS AND MEASUREMENT RESULTS





Test Graphs of Occupied Bandwidth

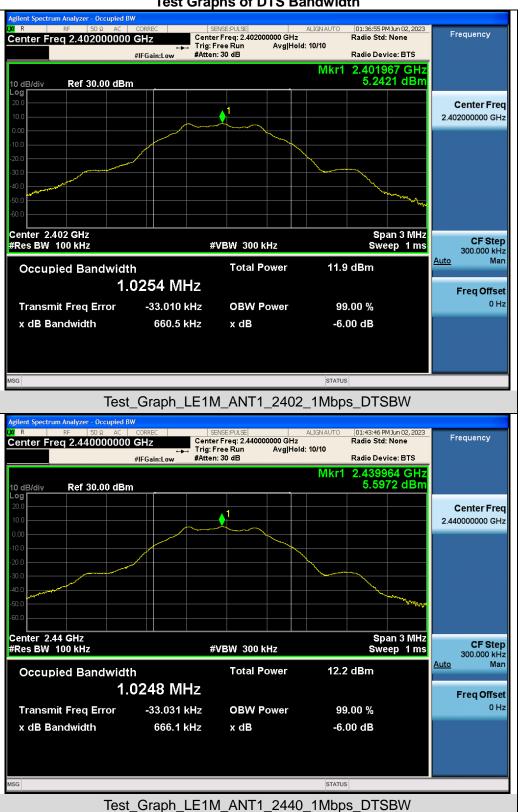






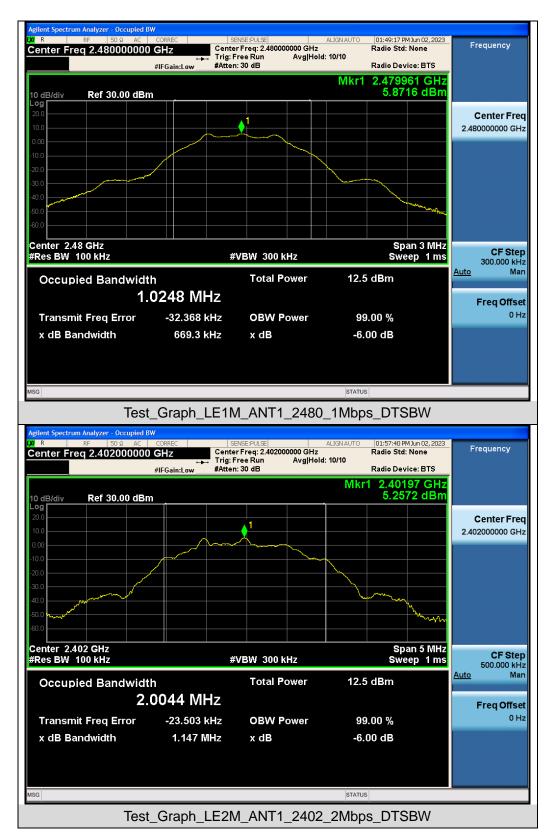






Test Graphs of DTS Bandwidth











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

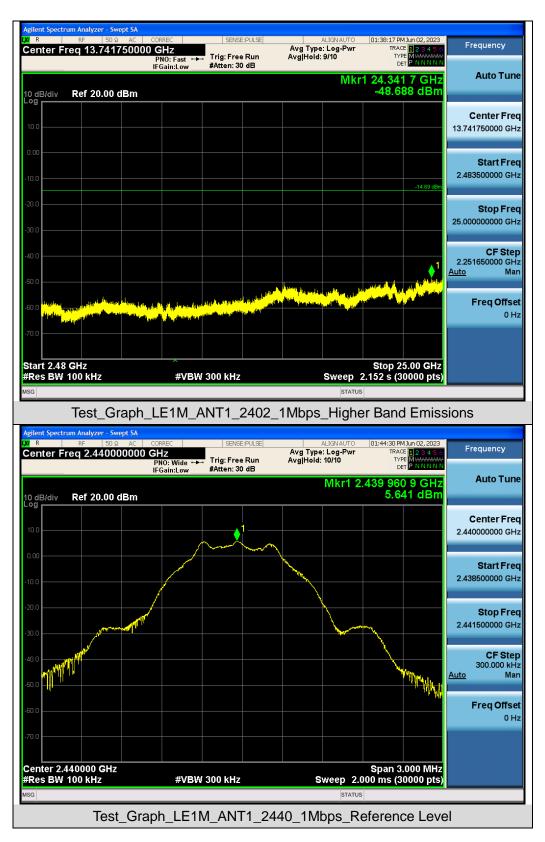
LIMITS AND MEASUREMENT RESULT				
Angliaghta Limite	Measurement Result			
Applicable Limits	Test Data	Criteria		
In any 100 kHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall 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		



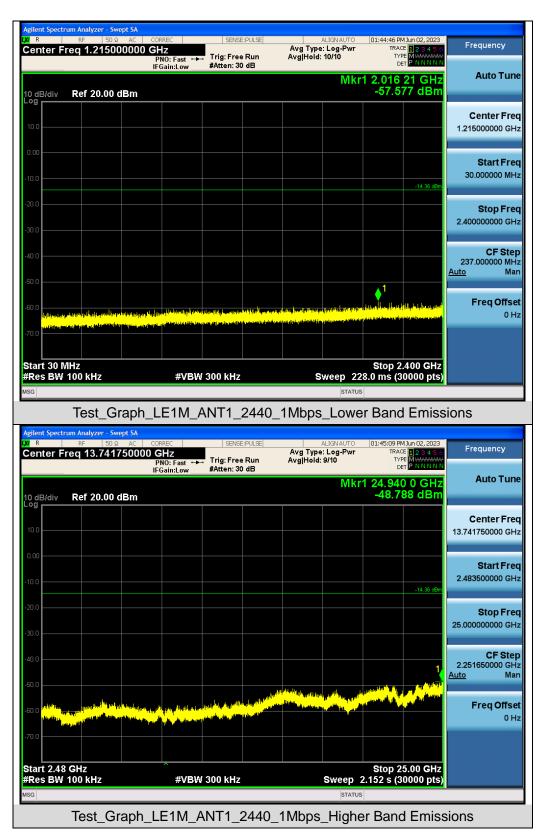


Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands

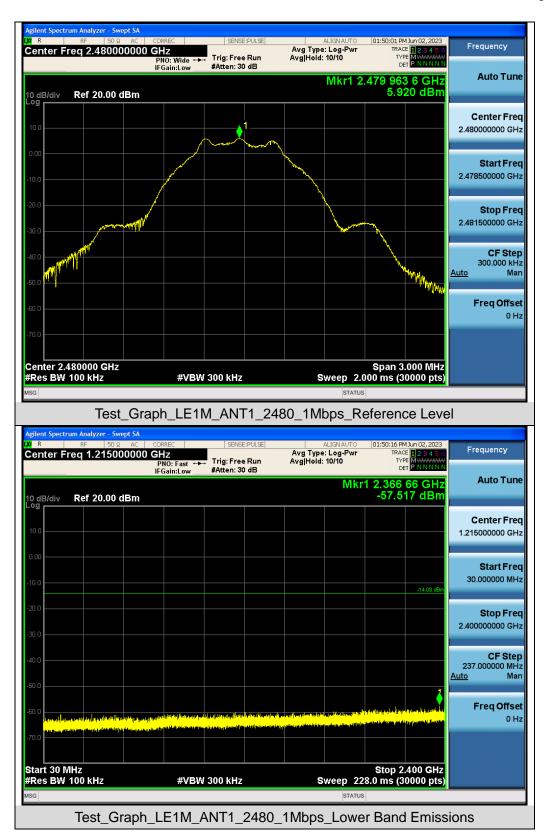




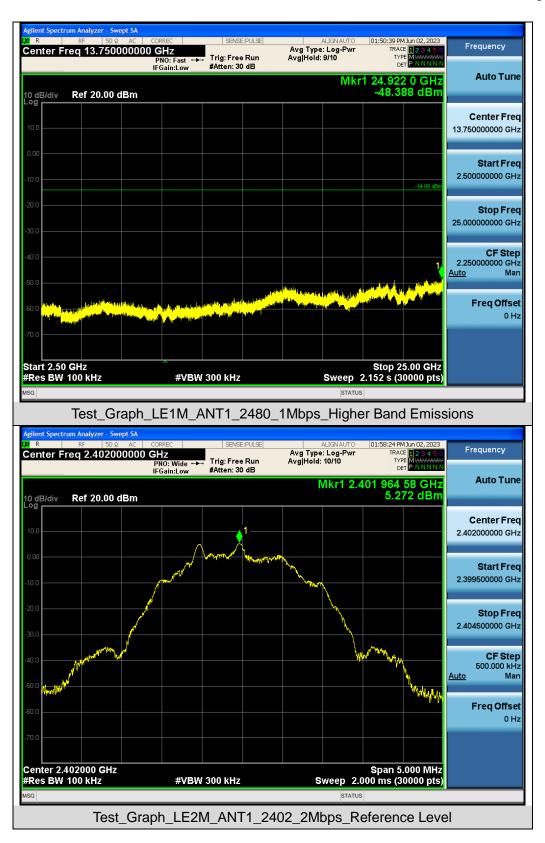




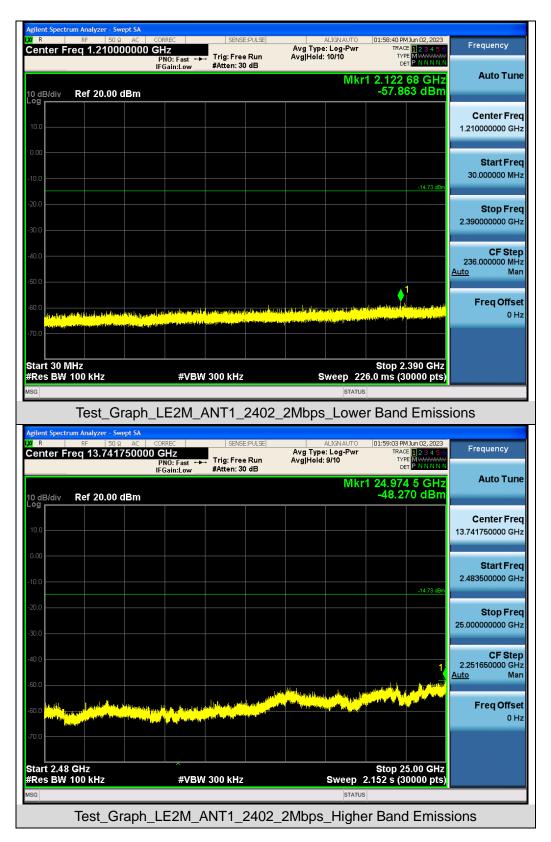












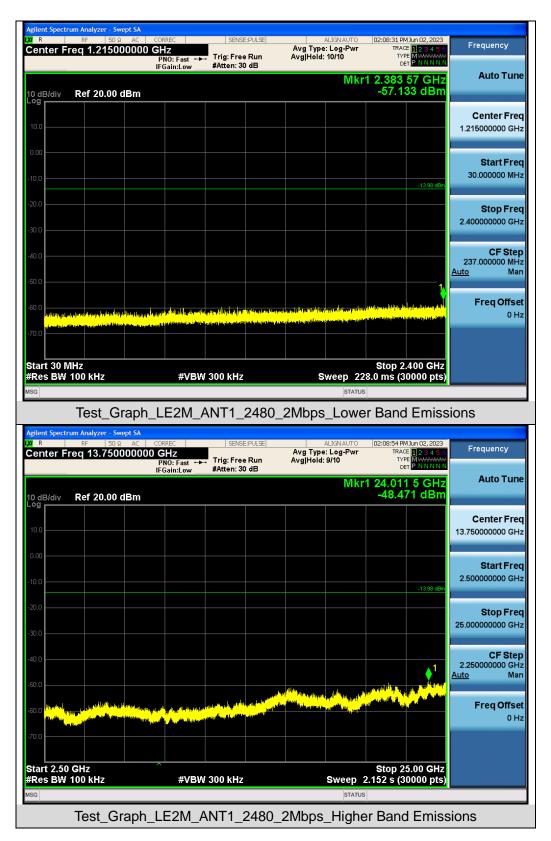
















Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands







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.

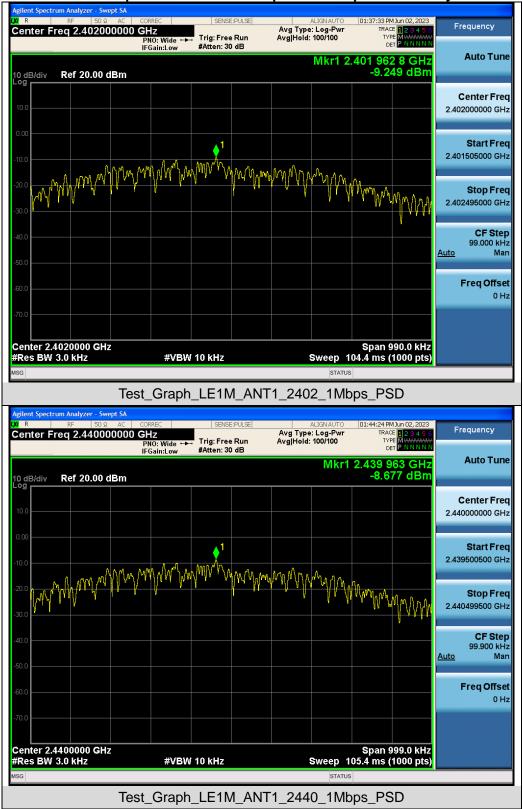
10.3. MEASUREMENT EQUIPMENT USED

Refer to Section 6.

10.4. LIMITS AND MEASUREMENT RESULT

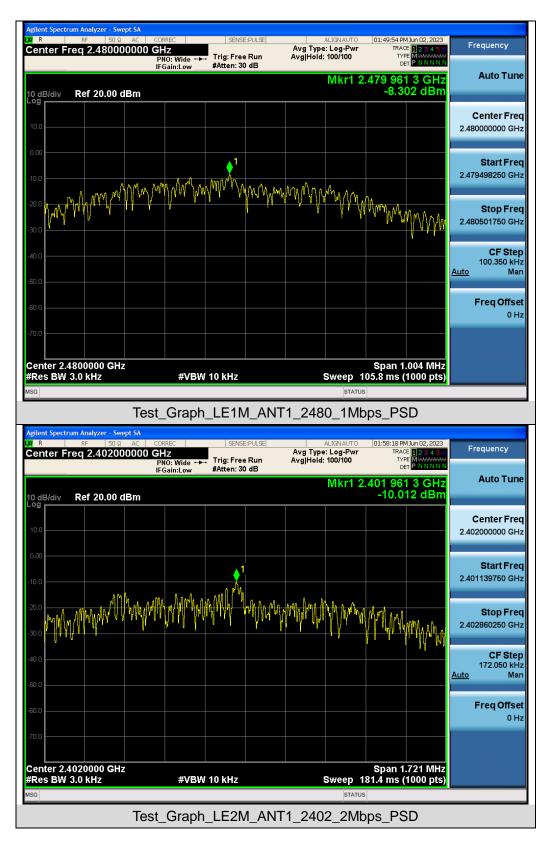
Test Data of Conducted Output Power Spectral Density				
Test Mode	Test Channel (MHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail
	2402	-9.249	≪8	Pass
GFSK 1M	2440	-8.677	≪8	Pass
	2480	-8.302	≪8	Pass
	2402	-10.012	≪8	Pass
GFSK 2M	2440	-9.447	≪8	Pass
	2480	-9.068	≪8	Pass



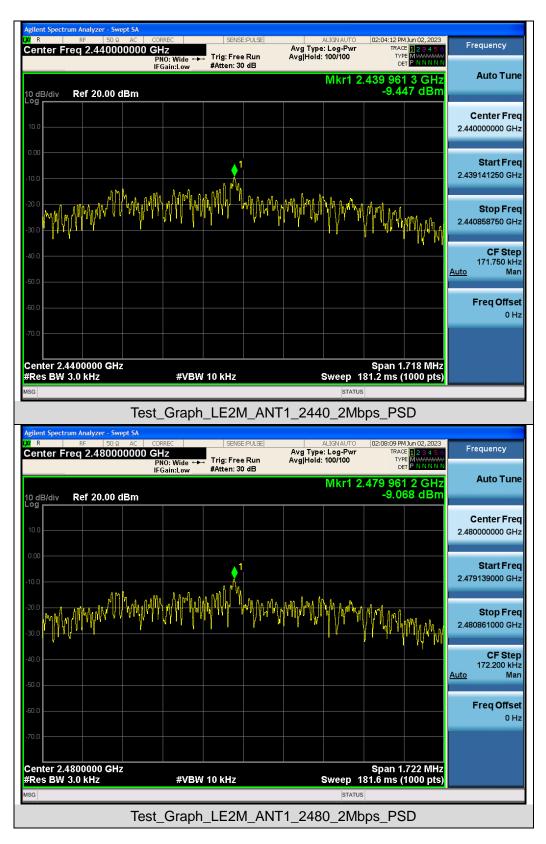


Test Graphs of Conducted Output Power Spectral Density











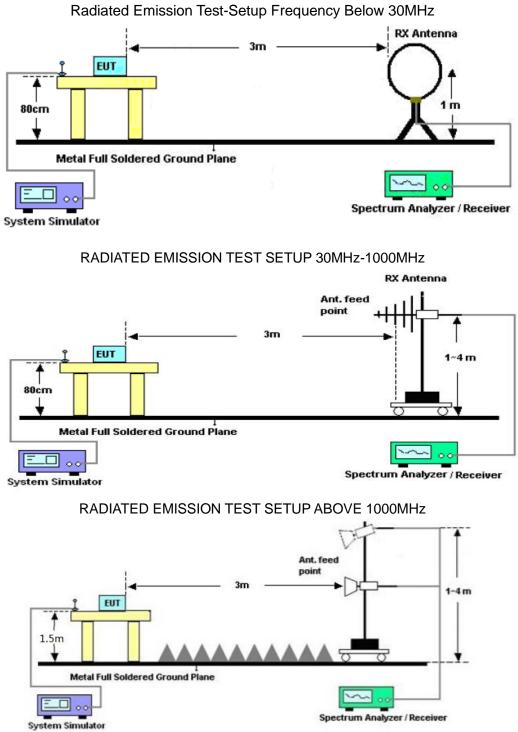
11. RADIATED EMISSION

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





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.



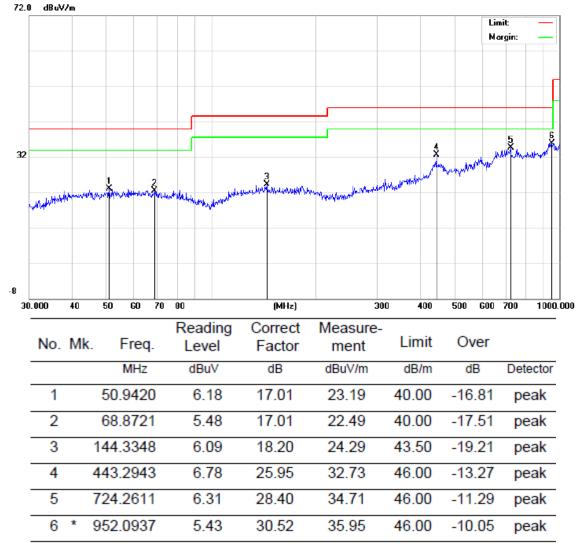
EUT	Wireless Headphone	Model Name	A3035	
Temperature	25° C	Relative Humidity	55.4%	
Pressure	960hPa Test Voltage		Normal Voltage	
Test Mode	Mode 6	Antenna	Horizontal	
72.0 dBuV/m				
32 				
30.000 40 5	0 60 70 80	(MHz) 300 400 500	600 700 1000.000	
No. Mk.		rrect Measure- actor ment Limit O	ver	
	MHz dBuV o	dB dBuV/m dB/m o	IB Detector	
1 44	4.5868 5.60 13	3.58 19.18 40.00 -20).82 peak	
2 98	8.8326 5.41 16	0.02 21.43 43.50 -22	2.07 peak	
3 270	0.3748 6.62 15	5.37 21.99 46.00 -24	I.01 peak	
4 459	9.1144 4.06 26	6.21 30.27 46.00 -15	5.73 peak	
5 612	2.0642 5.70 25	5.16 30.86 46.00 -15	5.14 peak	
6 * 900	0.1474 4.76 31	.78 36.54 46.00 -9	.46 peak	

Radiated emission from 30MHz to 1000MHz

RESULT: PASS



EUT	Wireless Headphone	Model Name	A3035
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 6	Antenna	Vertical



RESULT: PASS Note:

1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. All test modes had been tested. The mode 6 is the worst case and recorded in the report.



Radiated emission above 1GHz

EUT	Wireless Headphone	Model Name	A3035
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4804.000	45.26	0.08	45.34	74	-28.66	peak
4804.000	36.18	0.08	36.26	54	-17.74	AVG
7206.000	40.15	2.21	42.36	74	-31.64	peak
7206.000	31.97	2.21	34.18	54	-19.82	AVG
Remark:						
actor = Anter	na Factor + Cabl	e Loss – Pre-	amplifier.			

EUT	Wireless Headphone	Model Name	A3035
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4804.000	44.97	0.08	45.05	74	-28.95	peak
4804.000	35.57	0.08	35.65	54	-18.35	AVG
7206.000	39.67	2.21	41.88	74	-32.12	peak
7206.000	30.12	2.21	32.33	54	-21.67	AVG
Remark:						
actor = Anter	na Factor + Cabl	<u>e Loss – Pre-</u>	amplifier.			



EUT	Wireless Headphone	Model Name	A3035
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 5	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4880.000	46.28	0.14	46.42	74	-27.58	peak
4880.000	35.57	0.14	35.71	54	-18.29	AVG
7320.000	41.05	2.36	43.41	74	-30.59	peak
7320.000	32.45	2.36	34.81	54	-19.19	AVG
Remark:						
-actor = Anter	nna Factor + Cabl	e Loss – Pre-a	amplifier.			

EUT	Wireless Headphone	Model Name	A3035
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 5	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4880.000	46.25	0.14	46.39	74	-27.61	peak
4880.000	37.54	0.14	37.68	54	-16.32	AVG
7320.000	42.15	2.36	44.51	74	-29.49	peak
7320.000	31.25	2.36	33.61	54	-20.39	AVG
emark:						
actor = Anter	nna Factor + Cabl	e Loss – Pre-	amplitier.			



EUT	Wireless Headphone	Model Name	A3035
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 6	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.000	46.25	0.22	46.47	74	-27.53	peak
4960.000	36.28	0.22	36.5	54	-17.5	AVG
7440.000	41.05	2.64	43.69	74	-30.31	peak
7440.000	32.58	2.64	35.22	54	-18.78	AVG
emark:						
emark:						

EUT	Wireless Headphone	Model Name	A3035
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 6	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.000	45.19	0.22	45.41	74	-28.59	peak
4960.000	36.54	0.22	36.76	54	-17.24	AVG
7440.000	41.05	2.64	43.69	74	-30.31	peak
7440.000	31.25	2.64	33.89	54	-20.11	AVG
omork						
emark:						

RESULT: PASS

Note:

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

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

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

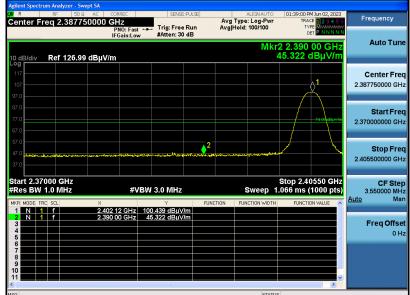
All test modes had been tested. The 2Mbps is the worst case and recorded in the report.



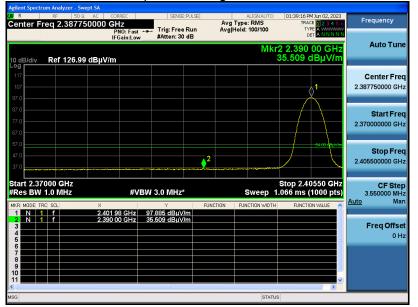
EUT	Wireless Headphone	Model Name	A3035
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Test result for band edge emission at restricted bands

Test Graph for Peak Measurement



Test Graph for Average Measurement

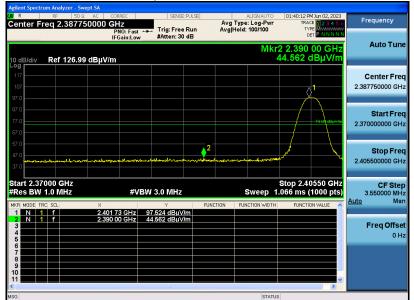


RESULT: PASS

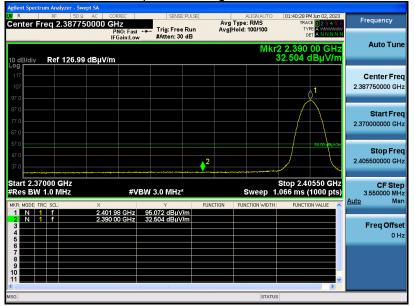


EUT	Wireless Headphone	Model Name	A3035
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement

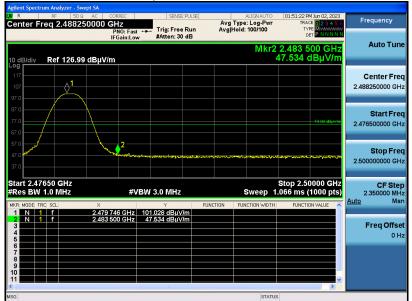


RESULT: PASS

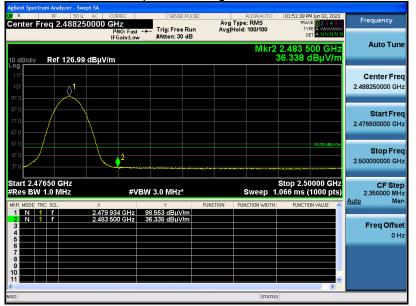


EUT	Wireless Headphone	Model Name	A3035
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



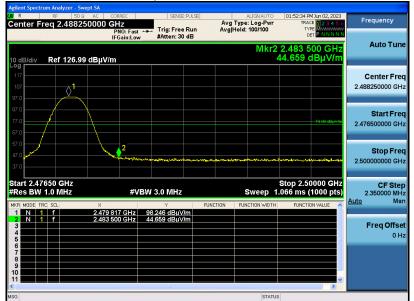
RESULT: PASS



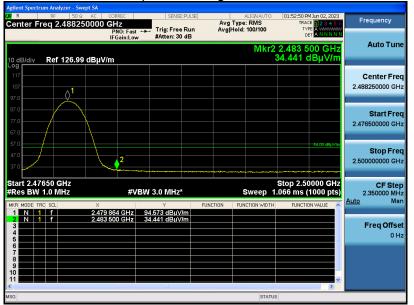
Report No.: AGC01110230541FE02 Page 51 of 58

EUT	Wireless Headphone	Model Name	A3035
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



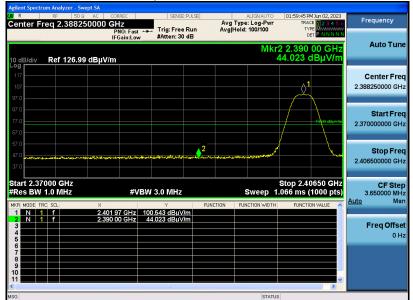
RESULT: PASS



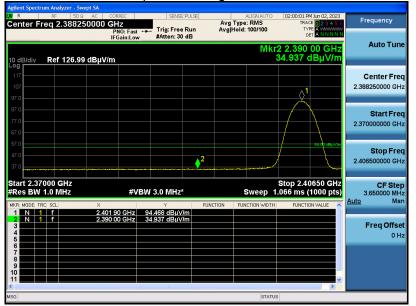
Report No.: AGC01110230541FE02 Page 52 of 58

EUT	Wireless Headphone	Model Name	A3035
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



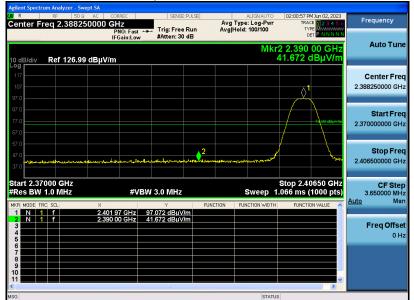
RESULT: PASS



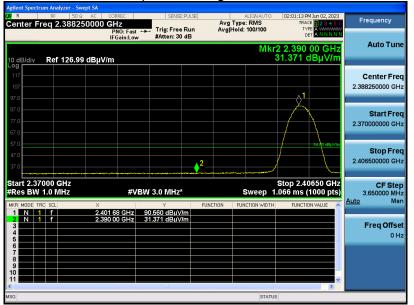
Report No.: AGC01110230541FE02 Page 53 of 58

EUT	Wireless Headphone	Model Name	A3035
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



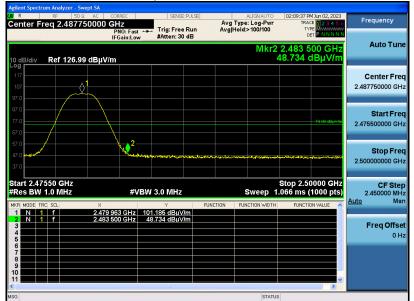
RESULT: PASS



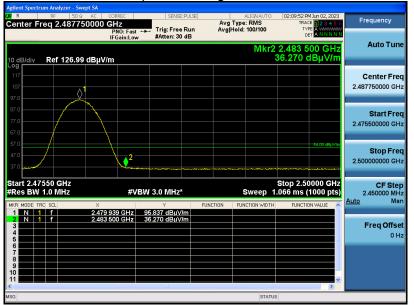
Report No.: AGC01110230541FE02 Page 54 of 58

EUT	Wireless Headphone	Model Name	A3035
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 6	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement

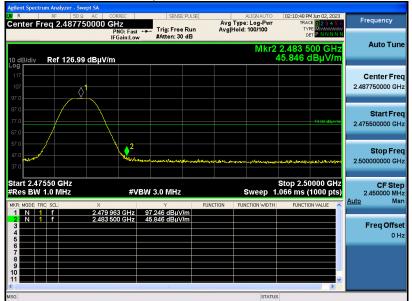


RESULT: PASS

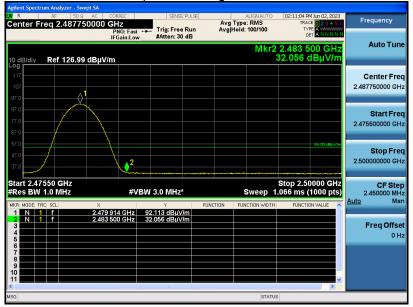


EUT	Wireless Headphone	Model Name	A3035
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 6	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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



12. LINE CONDUCTED EMISSION TEST

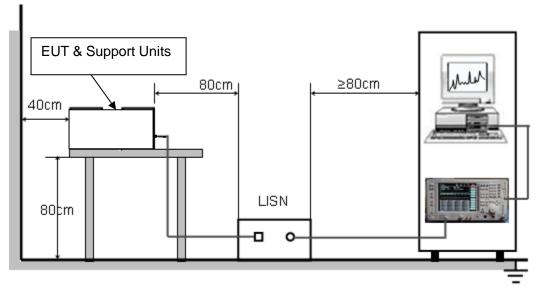
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF	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





12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipment received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC 5V power from adapter which received AC120V/60Hz power from 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.
- 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

N/A

Note: The BT function cannot transmit when charging.



APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC01110230541AP01

APPENDIX B: PHOTOGRAPHS OF EUT

Refer to the Report No.: AGC01110230541AP02

----END OF REPORT----



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3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.

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