

FCC Test Report

Report No.: AGC01110241184FR01

FCC ID	:	2AOKB-A3878L
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	Wireless Headphone
BRAND NAME	:	soundcore
MODEL NAME	:	A3878L
APPLICANT	:	Anker Innovations Limited
DATE OF ISSUE	:	Nov. 26, 2024
STANDARD(S)	:	FCC Part 15 Subpart C §15.247
REPORT VERSION	:	V1.0







Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Nov. 26, 2024	Valid	Initial Release



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1. General Information

Applicant	Anker Innovations Limited
Address	Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road, Hong Kong
Manufacturer	Anker Innovations Limited
Address	Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road, Hong Kong
Factory	N/A
Address	N/A
Product Designation	Wireless Headphone
Brand Name	soundcore
Test Model	A3878L
Series Model(s)	N/A
Difference Description	N/A
Date of receipt of test item	Nov. 15, 2024
Date of Test	Nov. 15, 2024 to Nov. 26, 2024
Deviation from Standard	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Test Report Form No	AGCER-FCC-BLE-V1

Note: The test results of this report relate only to the tested sample identified in this report.

Bibo zhang Prepared By Bibo Zhang Nov. 26, 2024 (Project Engineer) Calvin Lin **Reviewed By** Calvin Liu Nov. 26, 2024 (Reviewer) Approved By

Angela Li (Authorized Officer)

Nov. 26, 2024



2. Product Information

2.1 Product Technical Description

Frequency Band	2400MHz-2483.5MHz
Operation Frequency Range	2402MHz-2480MHz
Bluetooth Version	V5.4
Modulation Type	BLE GFSK 1Mbps GFSK 2Mbps
Number of channels	40
Carrier Frequency of Each Channel	40 Channels (37 Data channels + 3 advertising channels)
Channel Separation	2 MHz
Maximum Transmitter Power	Bluetooth LE (1Mbps): 2.850dBm Bluetooth LE (2Mbps): 2.841dBm
Hardware Version	V04A
Software Version	V0.12
Antenna Designation	Monopole Antenna
Antenna Gain	-2.8dBi
Power Supply	DC 3.85V by battery

2.2 Test Frequency List

Frequency Band	Channel Number	Test Frequency		
	0	2402 MHz		
	1	2404 MHz		
	:	:		
2400~2483.5MHz	19	2440MHz		
	:	:		
	38	2478 MHz		
	39	2480 MHz		
Note: $f = 2402 + 2^{k}$ MHz, $k = 0,, 39$ f is the operating frequency (MHz); k is the operating channel.				



2.3 Related Submittal(S) / Grant (S)

This submittal(s) (test report) is intended for FCC ID: 2AOKB-A3878L, filing to comply with Part 2, Part 15 of the Federal Communication Commission rules.

2.4 Test Methodology

The tests were performed according to following standards:

No.	Identity	Document Title
1	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
2	FCC 47 CFR Part 15	Radio Frequency Devices
3	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices
4	KDB 558074 D01 15.247 Meas Guidance v05r02	Guidance for compliance measurements on Digital Transmission Systems, Frequency Hopping Spread Spectrum system, and Hybrid system devices operating under Section 15.247 of the FCC rules

2.5 Special Accessories

Not available for this EUT intended for grant.

2.6 Equipment Modifications

Not available for this EUT intended for grant.

2.7 Antenna Requirement

Standard Requirement

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi

EUT Antenna:

The non-detachable antenna inside the device cannot be replaced by the user at will. The gain of the antenna is -2.8dBi.



3. Test Environment

3.1 Address of the Test Laboratory

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to follow CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories).

A2LA-Lab Cert. No.: 5054.02

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to follow ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 975832

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

IC-Registration No.: 24842 (CAB identifier: CN0063)

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.



3.3 Environmental Conditions

	Normal Conditions
Temperature range (°C)	15 - 35
Relative humidity range	20 % - 75 %
Pressure range (kPa)	86 - 106
Power supply	DC 3.85V

3.4 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	$U_c = \pm 2.9 \text{ dB}$		
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 3.9 \text{ dB}$		
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.9 \text{ dB}$		
Uncertainty of total RF Power, Conducted	$U_c = \pm 0.8 \text{ dB}$		
Uncertainty of RF Power Density, Conducted	$U_c = \pm 2.6 \text{ dB}$		
Uncertainty of Spurious Emissions, Conducted	$U_c = \pm 2 \%$		
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$		
Uncertainty of Dwell Time	$U_c = \pm 2 \%$		



3.5 List of Equipment Use

• R	RF Conducted Test System							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)	
\boxtimes	AGC-ER-E036	Spectrum Analyzer	Agilent	N9020A	MY49100060	2024-05-24	2025-05-23	
\boxtimes	AGC-ER-E062	Power Sensor	Agilent	U2021XA	MY54110007	2024-02-01	2025-01-31	
\boxtimes	AGC-ER-E063	Power Sensor	Agilent	U2021XA	MY54110009	2024-02-01	2025-01-31	
\boxtimes	AGC-ER-A001	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2023-09-21	2025-09-20	
\boxtimes	AGC-ER-E083	Signal Generator	Agilent	E4421B	US39340815	2024-05-23	2025-05-22	
	N/A	RF Connection Cable	N/A	1#	N/A	Each time	N/A	
\square	N/A	RF Connection Cable	N/A	2#	N/A	Each time	N/A	

• F	Radiated Spurious Emission							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)	
	AGC-EM-E046	EMI Test Receiver	R&S	ESCI	10096	2024-02-01	2025-01-31	
\boxtimes	AGC-EM-E116	EMI Test Receiver	R&S	ESCI	100034	2024-05-24	2025-05-23	
\boxtimes	AGC-EM-E061	Spectrum Analyzer	Agilent	N9010A	MY53470504	2024-05-28	2025-05-27	
\boxtimes	AGC-EM-E086	Loop Antenna	ZHINAN	ZN30900C	18051	2024-03-05	2026-03-04	
\boxtimes	AGC-EM-E001	Wideband Antenna	SCHWARZBECK	VULB9168	D69250	2023-05-11	2025-05-10	
\square	AGC-EM-E029	Broadband Ridged Horn Antenna	ETS	3117	00034609	2024-03-31	2025-03-30	
\square	AGC-EM-E082	Horn Antenna	SCHWARZBECK	BBHA 9170	#768	2023-09-24	2025-09-23	
\boxtimes	AGC-EM-E146	Pre-amplifier	ETS	3117-PA	00246148	2024-07-24	2026-07-23	
\boxtimes	AGC-EM-A119	2.4G Filter	SongYi	N/A	N/A	2024-05-23	2025-05-22	
\boxtimes	AGC-EM-A138	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2023-06-09	2025-06-08	
	AGC-EM-A139	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2023-06-09	2025-06-08	

• A	AC Power Line Conducted Emission							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)	
	AGC-EM-E045	EMI Test Receiver	R&S	ESPI	101206	2024-05-28	2025-05-27	
	AGC-EM-A130	6dB Attenuator	Eeatsheep	LM-XX-6-5W	DC-6GZ	2023-06-09	2025-06-08	
	AGC-EM-E023	AMN	R&S	100086	ESH2-Z5	2024-05-28	2025-05-27	



• Tes	Test Software						
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Version Information		
	AGC-EM-S001	CE Test System	R&S	ES-K1	V1.71		
\boxtimes	AGC-EM-S003	RE Test System	FARA	EZ-EMC	VRA-03A		
	AGC-EM-S004	RE Test System	Tonscend	TS+Ver2.1(JS32-RE)	4.0.0.0		
\boxtimes	AGC-ER-S012	BT/WIFI Test System	Tonscend	JS1120-2	2.6		
	AGC-EM-S011	RSE Test System	Tonscend	TS+-Ver2.1(JS36-RSE)	4.0.0.0		



4.System Test Configuration

4.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

4.2 EUT Exercise

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

4.3 Configuration of Tested System

Radiated Emission Configure:



4.4 Equipment Used In Tested System

The following peripheral devices and interface cables were connected during the measurement:

\boxtimes	Test Accessories	Come From	The Laboratory
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No.	Equipment	Manufacturer	Model No.	Specification Information	Cable
1	Control Box	RISYM	USB-TTL		

Test Accessories Come From The Manufacturer

No.	Equipment	Manufacturer	Model No.	Specification Information	Cable
1					



4.5 Summary of Test Results

Item	FCC Rules	Description of Test	Result
1	§15.203&15.247(b)(4)	Antenna Equipment	Pass
2	§15.247 (b)(3)	RF Output Power	Pass
3	§15.247 (a)(2)	6 dB Bandwidth	Pass
4	§15.247 (e)	Power Spectral Density	Pass
5	§15.247 (d)	Conducted Band Edge and Out-of-Band Emissions	Pass
6	§15.209	Radiated Emission& Band Edge	Pass
7	§15.207	AC Power Line Conducted Emission	Not applicable

Note: The BT function cannot transmit when charging.



5. Description of Test Modes

	Summary Table of Test Cases					
Test Item	Data Rate / Modulation					
lest tielli	Bluetooth–LE(1Mbps/2Mbps)/GFSK					
	Mode 1: Bluetooth Tx CH00_2402 MHz_1Mbps(Battery powered)					
	Mode 2: Bluetooth Tx CH19_2440 MHz_1Mbps(Battery powered)					
Radiated & Conducted	Mode 3: Bluetooth Tx CH39_2480 MHz_1Mbps(Battery powered)					
Test Cases	Mode 4: Bluetooth Tx CH00_2402 MHz_2Mbps(Battery powered)					
	Mode 5: Bluetooth Tx CH19_2440 MHz_2Mbps(Battery powered)					
	Mode 6: Bluetooth Tx CH39_2480 MHz_2Mbps(Battery powered)					
AC Conducted Emission	N/A					
lote:						
. The battery is full-ch	e worst case was recorded in the report, if no other cases. arged during the test.					
 The battery is full-ch For Radiated Emissi For Conducted Test 						
 The battery is full-ch For Radiated Emissi For Conducted Test 	arged during the test. on, 3axis were chosen for testing for each applicable mode. method, a temporary antenna connector is provided by the manufacture. Software Setting Diagram					
The battery is full-ch For Radiated Emissi For Conducted Test	arged during the test. ion, 3axis were chosen for testing for each applicable mode. method, a temporary antenna connector is provided by the manufacture. Software Setting Diagram Assist 1.0.2.2					
The battery is full-ch For Radiated Emissi For Conducted Test	araged during the test. ion, 3axis were chosen for testing for each applicable mode. method, a temporary antenna connector is provided by the manufacture. Software Setting Diagram Assist 1.0.22					

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TEST BLE

reply data: 04 0E 04 01 34 20 00

return status: 0x0 发送成功!

len_of_test_data: 0xff Package_Payload: PRBS9 PHY: LE 2M PHY

Command_Type: EN_TX_TEST_CMD ch_index: (39 - 2480)

清除日志

Modulation_Index standard

Send configuration



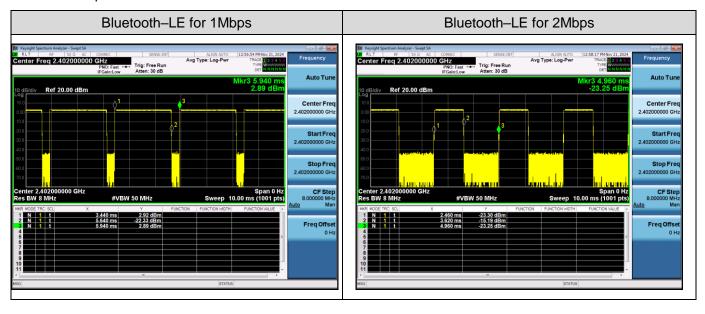
6. Duty Cycle Measurement

The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = Peak. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

Operating mode	T(µs)	Duty Cycle (%)	Duty Cycle Factor (dB)	1/ T Minimum VBW (kHz)
BLE_1Mbps	2200	88.0	0.56	0.45
BLE_2Mbps	1160	46.4	3.33	0.86

Remark:

- 1. Duty Cycle factor = 10 * log (1/ Duty cycle)
- 2. The duty cycle of each frequency band mode reflects the determination requirements of the low channel measurement value
- The test plots as follows:





7. RF Output Power Measurement

7.1 Provisions Applicable

For DTSs employing digital modulation techniques operating in the bands 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1 W.

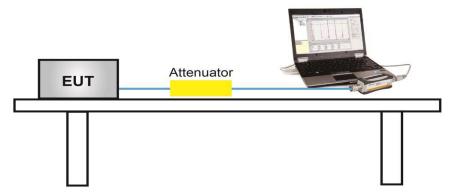
7.2 Measurement Procedure

For Peak Power, the testing follows ANSI C63.10 Section 11.9.1.1 Method Max peak power:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the RBW≥DTS bandwidth
- 3. Set the VBW \geq [3 × RBW].
- 4. Span≥[3 × RBW].
- 5. Sweep= auto couple.
- 6. Detector Function= Peak.
- 7. Trace mode= Max hold.
- 8. 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.
- For Average power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G:
- 1. The RF output of EUT was connected to the power meter by RF cable and attenuator.
- 2. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Measure the conducted output power and record the results in the test report.

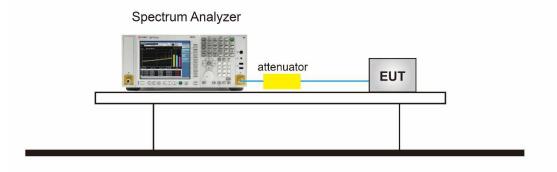
7.3 Measurement Setup (Block Diagram of Configuration)

For Average power test setup





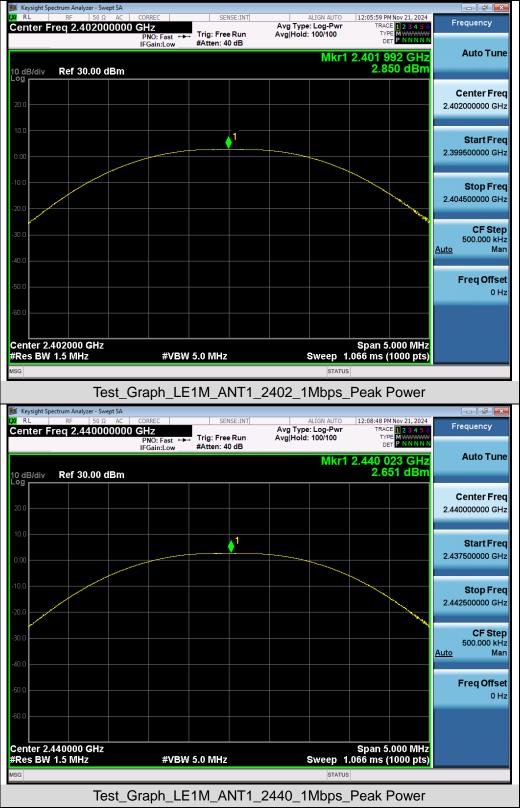
For peak power test setup



7.4 Measurement Result

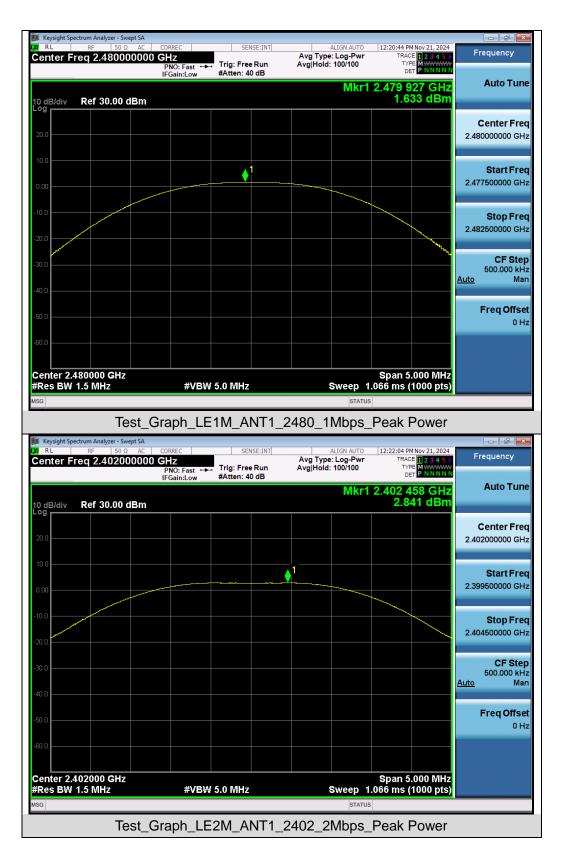
	Test Data of Conducted Output Power						
Test Mode	Test Frequency (MHz)	Peak Power (dBm)	Limits (dBm)	Pass or Fail			
	2402	2.850	≪30	Pass			
GFSK_1Mbps	2440	2.651	≪30	Pass			
	2480	1.633	≪30	Pass			
	2402	2.841	≪30	Pass			
GFSK_2Mbps	2440	2.738	≪30	Pass			
	2480	1.667	≤30	Pass			



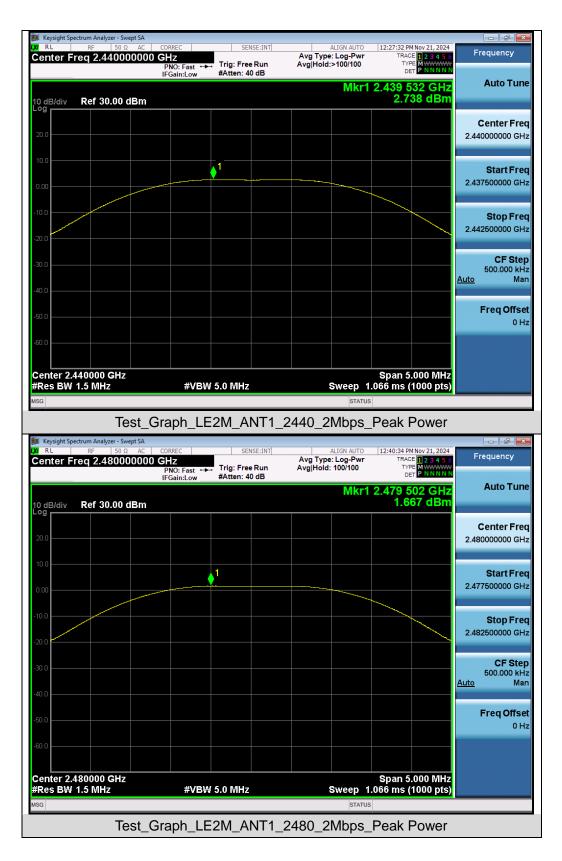


Test Graphs of Conducted Output Power











8. 6dB Bandwidth Measurement

8.1 Provisions Applicable

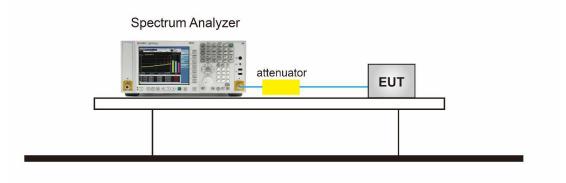
The minimum 6dB bandwidth shall be 500 kHz.

8.2 Measurement Procedure

The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.1 (6dB BW).

- 1. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously.
- 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
- For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the OBW and set the Video bandwidth (VBW) ≥ 3 * RBW.
- 5. Measure and record the results in the test report.

8.3 Measurement Setup (Block Diagram of Configuration)

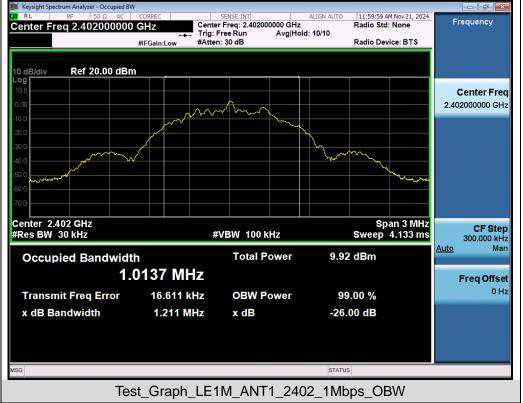




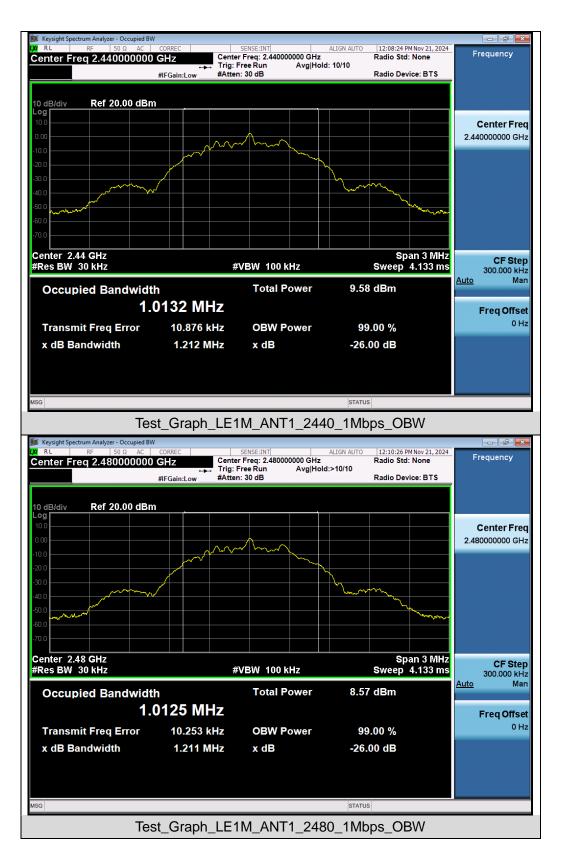
8.4 Measurement Results

	Test Data of Occupied Bandwidth and DTS Bandwidth							
Test Mode	Test Frequency (MHz)	Occupied Bandwidth (MHz)	DTS BW (MHz)	DTS BW Limits	Pass or Fail			
	2402	1.014	0.650	≥0.5	Pass			
GFSK_1Mbps	2440	1.013	0.650	≥0.5	Pass			
	2480	1.013	0.650	≥0.5	Pass			
	2402	2.013	1.158	≥0.5	Pass			
GFSK_2Mbps	2440	2.013	1.162	≥0.5	Pass			
	2480	2.013	1.164	≥0.5	Pass			

Test Graphs of Occupied Bandwidth









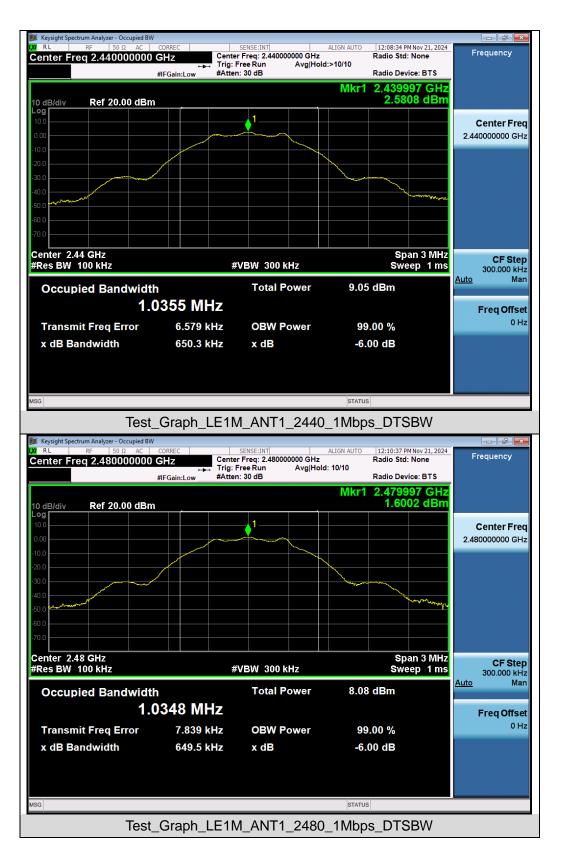




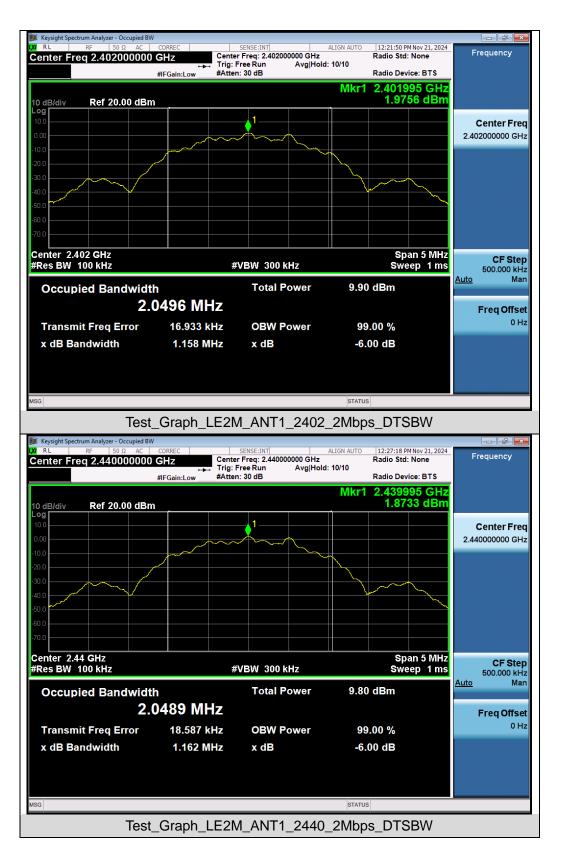


Center 2.402 GHz Span 3 MHz **CF** Step #VBW 300 kHz #Res BW 100 kHz Sweep 1 ms 300.000 kHz Man <u>Auto</u> 9.33 dBm **Occupied Bandwidth Total Power** 1.0363 MHz Freq Offset 0 Hz **Transmit Freq Error** 10.647 kHz **OBW Power** 99.00 % x dB Bandwidth 650.4 kHz -6.00 dB x dB STATUS Test_Graph_LE1M_ANT1_2402_1Mbps_DTSBW

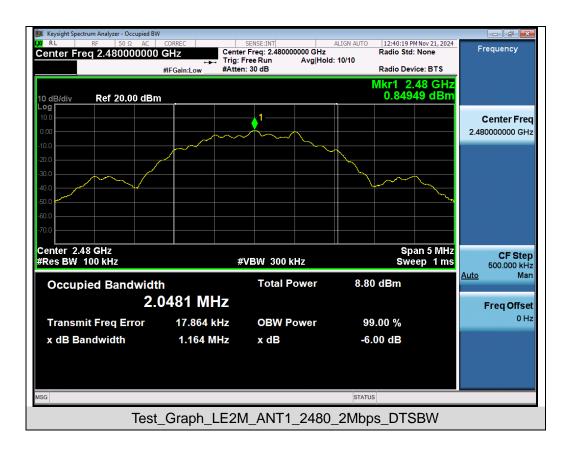














9. Power Spectral Density Measurement

9.1 Provisions Applicable

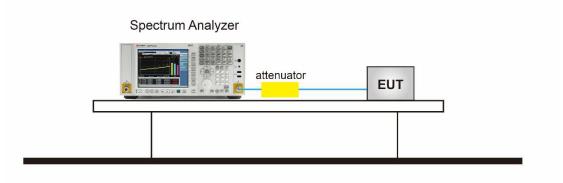
The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

9.2 Measurement Procedure

The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.

- 1. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously.
- Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz in order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
- 4. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
- 5. Measure and record the results in the test report.
- The Measured power density (dBm)/ 100kHz is a reference level and used as 20dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.

9.3 Measurement Setup (Block Diagram of Configuration)





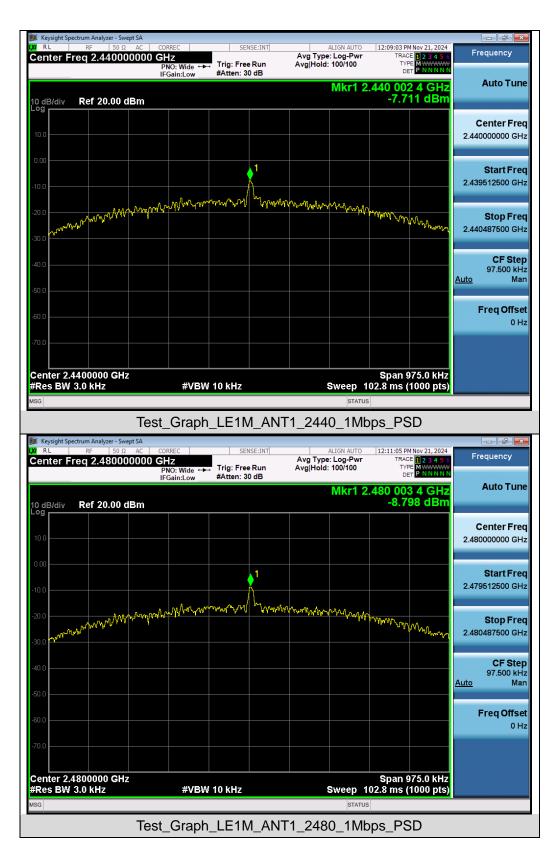
9.4 Measurement Results

	Test Data of Conducted Output Power Spectral Density						
Test Mode	Test Frequency (MHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail			
	2402	-7.604	≪8	Pass			
GFSK_1Mbps	2440	-7.711	≪8	Pass			
	2480	-8.798	≪8	Pass			
	2402	-9.112	≪8	Pass			
GFSK_2Mbps	2440	-9.242	≪8	Pass			
	2480	-10.286	≪8	Pass			

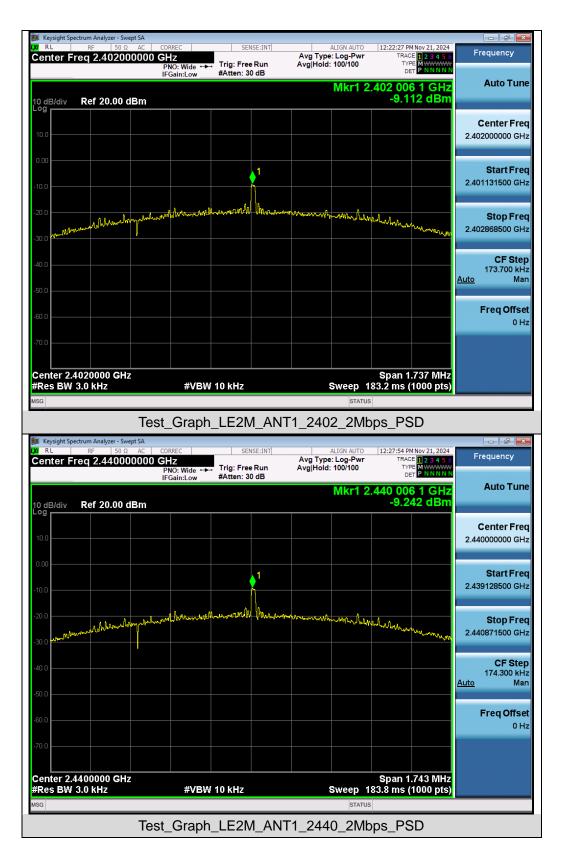
Test Graphs of Conducted Output Power Spectral Density













	ectrum Analyzer - Swept SA					
XIRL Center F	RF 50 Ω AC	O GHZ	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	12:40:56 PM Nov 21, 2024 TRACE 1 2 3 4 5 6	Frequency
		PNO: Wide ↔	 Trig: Free Run #Atten: 30 dB 	Avg Hold: 100/100	DET P N N N N	
		IFGain.Low		Mkr1 2	.480 006 1 GHz	Auto Tun
10 dB/div	Ref 20.00 dBm				-10.286 dBm	
						O
10.0						Center Fre 2.48000000 GH
10.0						2.48000000 GF
0.00						
			. 1			Start Fre
10.0			<u> </u>			2.479127000 GH
20.0			Barrow WW Man Ind	m www.www.www.www.www.www.www.www.www.ww		Stop Er
	www.glal.www.lnay.w	Mun and all and all	a deplete the dimension	and a construction of the state	what you are	2.480873000 GH
30.0 m^m^{fl}	ultriner y cu					2.480875000 GI
40.0						CF Ste 174.600 ki
						Auto Ma
50.0						
						Freq Offs
60.0						01
70.0						
Center 2.	4800000 GHz				Span 1.746 MHz	
¢Res BW		#VBW	/ 10 kHz	Sweep 1	84.1 ms (1000 pts)	
ISG				STATUS		
	Т	ast Granh		T1_2480_2Mb	ne PSD	
	1				,p3_i 0D	



10. Conducted Band Edge and Out-of-Band Emissions

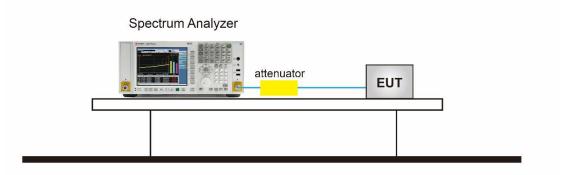
10.1 Provisions Applicable

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the PSD procedure.

10.2 Measurement Procedure

- Reference level measurement
- 1. Set instrument center frequency to DTS channel center frequency
- 2. Set the span to \geq 1.5 times the DTS bandwidth
- 3. Set the RBW = 100 kHz
- 4. Set the VBW \ge 3 x RBW
- 5. Detector = peak
- 6. Sweep time = auto couple
- 7. Trace mode = max hold
- 8. Allow trace to fully stabilize
- Emission level measurement
- 1. Set the center frequency and span to encompass frequency range to be measured
- 2. RBW = 100kHz
- 3. VBW = 300kHz
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep time = auto couple
- 7. The trace was allowed to stabilize

10.3 Measurement Setup (Block Diagram of Configuration)





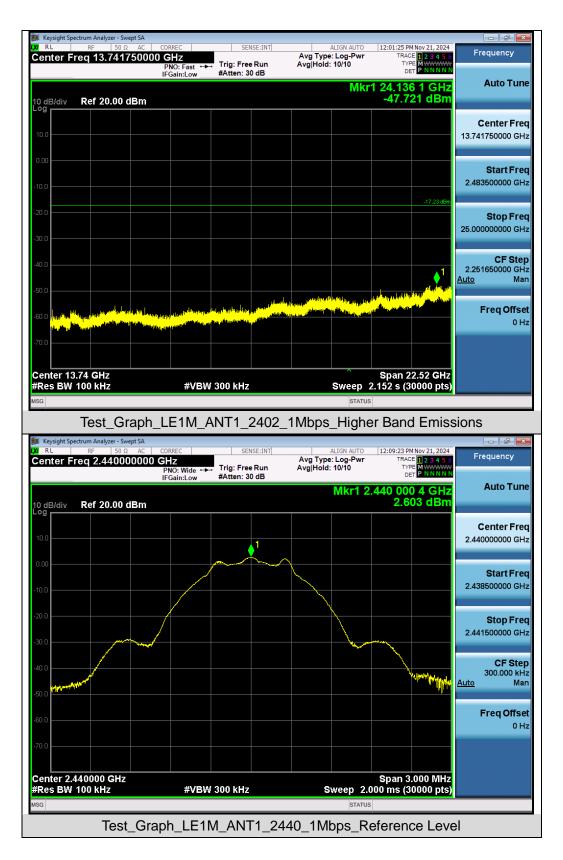
10.4 Measurement Results



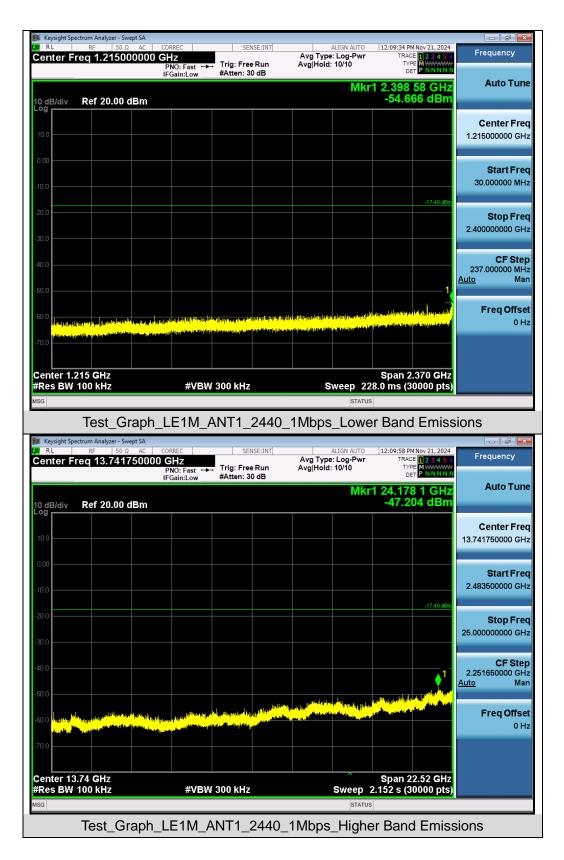
Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands

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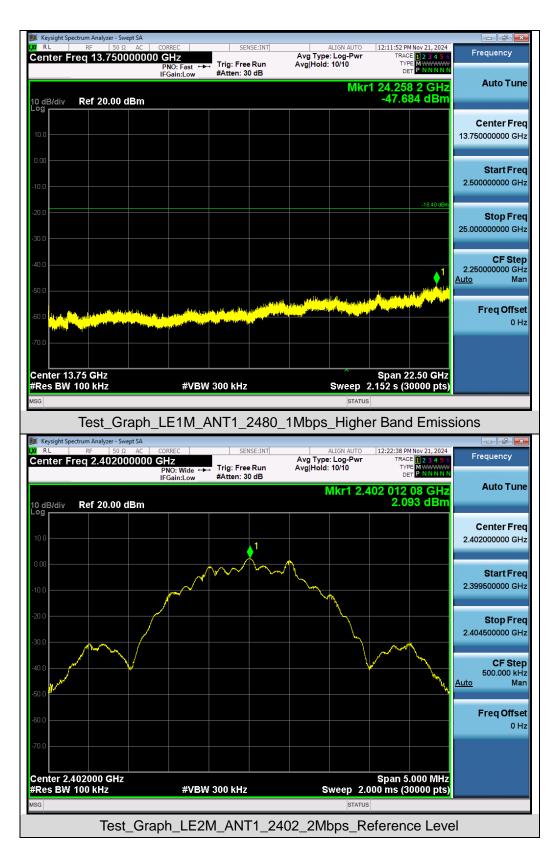




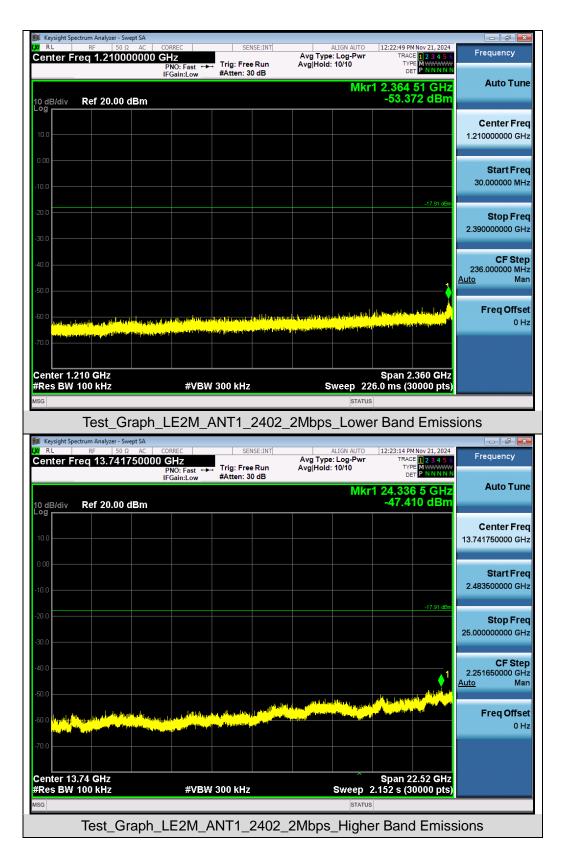








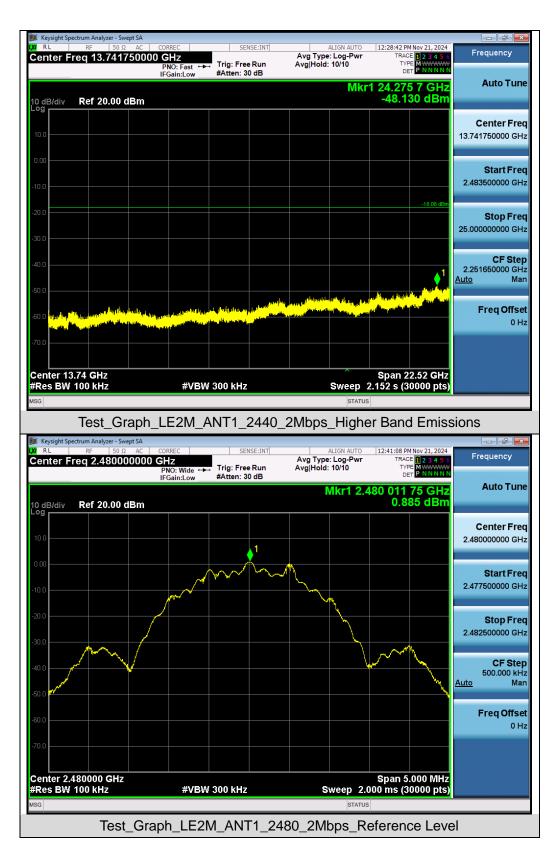




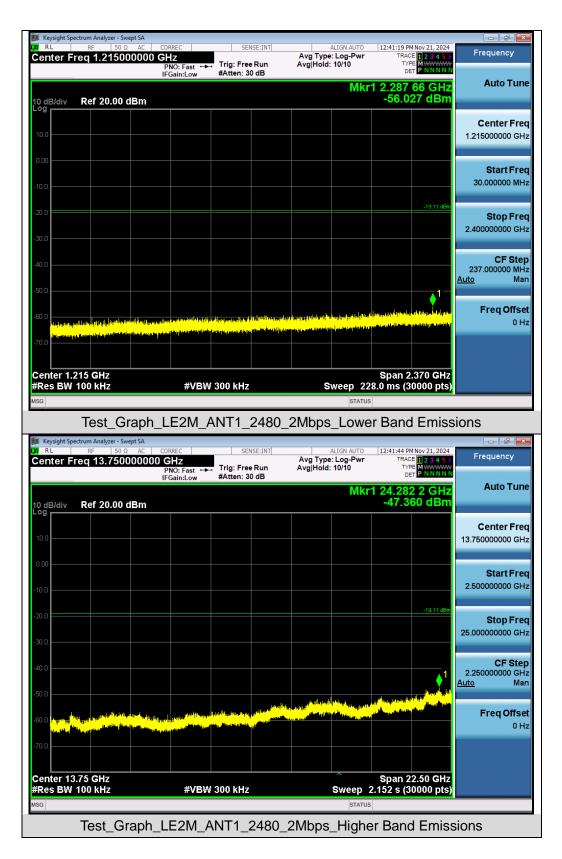




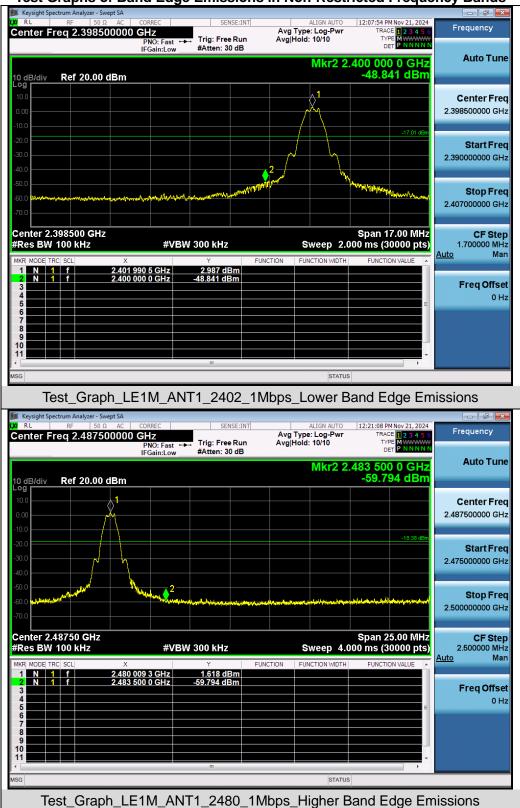












Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands







11. Radiated Spurious Emission

11.1 Measurement Limit

FCC Part 15.209 Limit in the below table 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.

11.2 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 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.



- 8. 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.
- 9. 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.
- 10. 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.
- 11. 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.

Spectrum Parameter	Setting
Start ~Stop Frequency	9kHz~150kHz/RB 200Hz for QP
Start ~Stop Frequency	150kHz~30MHz/RB 9kHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120kHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/3MHz for Peak, 1MHz/3MHz for Average

The following table is the setting of spectrum analyzer and receiver.

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



• Quasi-Peak Measurements below 1GHz

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

Peak Measurements above 1GHz

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

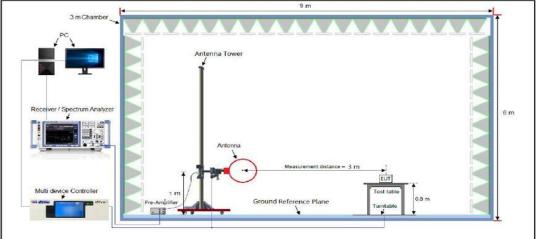
<u>Average Measurements above 1GHz</u>

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW ≥ [3 × RBW]
- 4. Detector = Power averaging (rms)
- 5. Averaging type = power (i.e., rms)
- 6. Sweep time = auto
- 7. Perform a trace average of at least 100 traces.
- 8. The applicable correction factor is [10*log (1 / D)], where D is the duty cycle. The factor had been edited in the "Input Correction" of the Spectrum Analyzer.

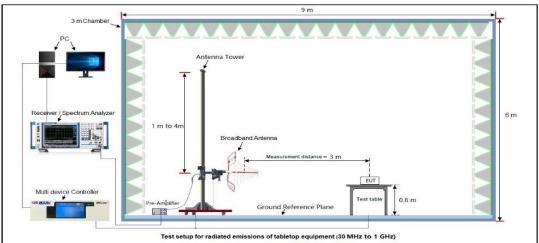


11.3 Measurement Setup (Block Diagram of Configuration)

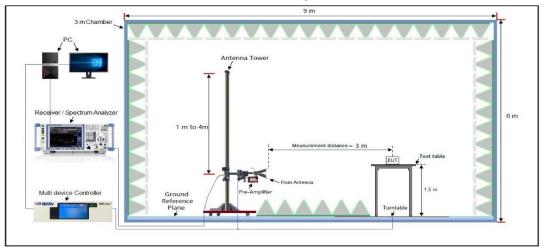




Radiated Emission Test Setup 30MHz-1000MHz



Radiated Emission Test Setup Above 1000MHz



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 Web: http://www.agccert.com/



11.4 Measurement 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.

		Radi	ated Emiss	ion Test R	esults at	30MHz-1G	Hz		
EUT Name	Wir	eless Headph	one		Мо	del Name		A3878L	
Temperature	22.	5℃			Rel	ative Hum	idity	55.4%	
Pressure	960)hPa			Tes	t Voltage		Normal Vo	oltage
Test Mode	Мо	de 1			Ant	tenna Pola	rity	Horizontal	
72.0	dBuV/m								
72.0	abuy/m							Limit: —]
								Margin: —	
									-
									•
								Б	1
32							4 5	Jun Un	M
							1 min	Wandhurt	
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pat	www.	man and a second and a second and a second and a second second second second second second second second second	hearing	"HALANA	Male Manager and a				
-8	00 40	0 50 60 70	80	(MHz)		300 400	500 60	0 700 1000	.000
		0 30 00 70	Reading	Correct	Measure		500 00		
	No. N	Nk. Freq.	Level	Factor	ment	Limit	Over		
-		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	
-	1	37.8121	5.77	12.96	18.73	40.00	-21.27	peak	
-	2	65.8031	6.43	12.67	19.10	40.00	-20.90	peak	
-	3	112.5243	5.21	16.33	21.54	43.50	-21.96	peak	
-	4	455.9057	5.83	24.54	30.37	46.00	-15.63	peak	
-	5	616.3718	6.27	25.18	31.45	46.00	-14.55	peak	
-	6 *	900.1473	5.02	31.78	36.80	46.00	-9.20	peak	
-									





				F	Rad	iatec	l Em	issior	n Test	Resu	Its at 3	BOMHz	-1G	Hz				
EUT Name	V	/irele	ess H	lea	dph	one					Mod	lel Na	me		A	\3878	L	
Temperature	2	2.5 ℃	2								Rela	ative H	łum	idity	5	5.4%		
Pressure	9	60hF	' a								Test	t Volta	ge		Ν	Normal Voltage		
Test Mode	N	lode	1								Ante	enna I	Pola	rity	\	/ertica	al	
72.0	dBuV∕	'n																
32	langentenslöre				1 X //·····	eth]theore	4/4 _{1/10764} /4	et en set de southet	2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	*********	had Major Lopert			Anary and Mar				
-8												222						
30.0		٥ Mk.	50	60 Fre			eadin evel		(мн₂) Correct Factor	M	easure ment	300 - Lir	400 nit	500 Ove		700	1000.000	
				MH	lz	(dBuV		dB	d	BuV/m	dBu	ıV/m	dB		Detect	or	
	1		63	.31	32		6.18	} .	17.07	2	23.25	40.	00	-16.7	75	peal	k	
	2		139	.36	13		5.49) .	18.18	2	23.67	43.	50	-19.8	83	peal	k	
														40.4	25	neel		
	3		187	.75	30		5.88	3	18.27	2	24.15	43.	50	-19.3	30	peal	K	
	3 4		187 437				5.88 6.03		18.27 25.64		24.15 31.67	43. 46.		-19.3		pea		
				.11	99			3		3			00		33	-	k	

RESULT: Pass

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

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

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EUT N	Name	Wireless Head	lphone	M	odel Name	A	3878L	
Tempe	erature	22.5 ℃		Re	elative Humi	dity 5	5.4%	
Press	ure	960hPa		Те	st Voltage	Ν	lormal Volt	tage
Test N	Node	Mode 1		А	ntenna Pola	rity H	lorizontal	
						·		
	130			FCC Part 15C				
	120			7				
	100	Fundamental	Frequency					
	90 80							
	Ш, 70 Нарадование (1997) Нарадование (1997) Нарадо						5	
					2			
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	40 30 20 10	n solocity in comparison of the solocity in the solocity in the solocity of th	3G	46	200 200 200 200	8G		18G
	40 30 20 10 	- AV Limit - Ho						18G
	40 30 20 10 0 -10 1G	- AV Limit - Ho	36	46				18G
NO.	40 30 20 10 	AV Limit - Ho	3G prizontal PK	4G Frequency[Hz]	6G Margin	BG Height	Angle	
NO.	40 30 20 10 	- AV Limit - Ho	3G prizontal PK	4G Frequency[Hz]	60	BG	Angle [°]	18G Polarity
NO. 1	40 30 20 10 	AV Limit — Ho Level [dBµV/m] 38.15	Tactor [dB] -13.38	4G Frequency[Hz] Limit [dBµV/m] 74.00	6G Margin [dB] 35.85	BG Height		Polarity Horizontal
1	40 30 20 10 10 10 10 10 10 10 10 Freq. [MHz] 2009.90099 3446.544655	Herefore	36 orizontal PK Factor [dB] -13.38 -10.78	4G Frequency[Hz] Limit [dBµV/m] 74.00 74.00	6G Margin [dB] 35.85 34.44	BG Height [cm] 150 150	[°] 359 281	Polarity Horizontal Horizontal
1	40 30 20 10 0 -10 13 	Herefore	Tactor [dB] -13.38	4G Frequency[Hz] Limit [dBµV/m] 74.00	6G Margin [dB] 35.85	Height [cm]	[°] 359	Polarity Horizontal
1	40 30 20 10 10 -10 13 	AV Limit He Level [dBμV/m] 38.15 39.56 46.21 45.16	3G prizontal PK Factor [dB] -13.38 -10.78 -4.00 -1.30	4G Frequency[Hz] Limit [dBµV/m] 74.00 74.00 74.00 74.00	6G Margin [dB] 35.85 34.44 27.79 28.84	BG Height [cm] 150 150 150 150	[°] 359 281	Polarity Horizontal Horizontal Horizontal Horizontal
1 2 3	40 30 20 10 10 10 10 10 10 10 10 10 1	AV Limit He Level [dBμV/m] 38.15 39.56 46.21 45.16	3G orizontal PK Factor [dB] -13.38 -10.78 -4.00	4G Frequency[Hz] Limit [dBµV/m] 74.00 74.00 74.00	6G Margin [dB] 35.85 34.44 27.79	BG Height [cm] 150 150 150	[°] 359 281 276	Polarity Horizontal Horizontal Horizontal

Radiated Emissions Test Results for Above 1GHz



EUT I	Name	Wireless Head	phone		Model Name		A3878L		
Temp	erature	22.5 ℃			Relative Hun	nidity	55.4%		
Press	sure	960hPa Test Voltage Nor						Normal Voltage	
Test I	Mode	Mode 1 Antenna Polarity Vertical							
	130 120 110 100 90 80 70 60 90 80 40 30 -10 13 -10 -10 -10 -10 -10 -10 -10 -10			FCC Part 15	66	8G		186	
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2084.708471	38.10	-13.21	74.00	35.90	150	160	Vertical	
2	3490.749075	39.87	-10.66	74.00	34.13	150	146	Vertical	
3	6644.564456	46.37	-4.23	74.00	27.63	150	330	Vertical	
4	9607.960796	46.64	-1.30	74.00	27.36	150	310	Vertical	
5	10888.188819	50.32	2.30	74.00	23.68	150	30	Vertical	
6	15869.686969	47.60	4.61	74.00	26.40	150	141	Vertical	

RESULT: Pass



	Name	Wireless Head	dphone	Мо	del Name	ļ	\3878L		
Temp	erature	22.5 ℃		Re	lative Humi	idity 5	5.4%		
Press	ure	960hPa		Те	st Voltage	1	Normal Vol	tage	
Test N	Node	Mode 2		An	tenna Pola	rity H	Horizontal		
				·					
	130			FCC Part 15C					
	120 110	Fundamental F	roquonev						
	90		requency						
	80								
	70 70 60 50								
	-	······	¥ .		2. autoritation	Mildon ta Militarian alian Mi			
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	20								
	10 0								
	-10	2G	3G	4G	6G	8G		18G	
	1G	20		Frequency[Hz]					
	1G — PK Limit		izontal PK	riequeney[n2]					
		AV Limit Hor	izontal PK	i requeritoj(n2j			_		
NO.	PK Limit * AV Detect	or AV Limit Hor	Factor	Limit	Margin	Height	Angle	Polarity	
NO.	PK Limit AV Detect	or AV Limit — Hor			Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	Freq. [MHz] 3070.807081	AV Limit Hor Level [dBµV/m] 39.32	Factor [dB] -11.79	Limit [dBµV/m] 74.00	[dB] 34.68	[cm] 150	[°] 359	Horizontal	
1 2	Freq. [MHz] 3070.807081 5502.050205	- AV Limit - Hor Level [dBµV/m] 39.32 41.63	Factor [dB] -11.79 -6.88	Limit [dBµV/m] 74.00 74.00	[dB] 34.68 32.37	[cm] 150 150	[°] 359 310	Horizontal Horizontal	
1 2 3	Freq. [MHz] 3070.807081 5502.050205 6561.256126	- AV Limit — Hor [dBµV/m] 39.32 41.63 45.44	Factor [dB] -11.79 -6.88 -4.38	Limit [dBµV/m] 74.00 74.00 74.00	[dB] 34.68 32.37 28.56	[cm] 150 150 150	[°] 359 310 295	Horizontal Horizontal Horizontal	
1 2 3 4	Freq. [MHz] 3070.807081 5502.050205 6561.256126 9759.275928	- AV Limit - Hor Level [dBµV/m] 39.32 41.63 45.44 47.17	Factor [dB] -11.79 -6.88 -4.38 -0.74	Limit [dBµV/m] 74.00 74.00 74.00 74.00	[dB] 34.68 32.37 28.56 26.83	[cm] 150 150 150 150	[°] 359 310 295 320	Horizontal Horizontal Horizontal Horizontal	
1 2 3	Freq. [MHz] 3070.807081 5502.050205 6561.256126	- AV Limit - Hor Level [dBµV/m] 39.32 41.63 45.44 47.17 48.59	Factor [dB] -11.79 -6.88 -4.38	Limit [dBµV/m] 74.00 74.00 74.00	[dB] 34.68 32.37 28.56	[cm] 150 150 150	[°] 359 310 295	Horizontal Horizontal Horizontal	

Radiated Emissions Test Results for Above 1GHz



EUT	Name	Wireless Head	lphone	N	lodel Name	F	3878L	
Temp	erature	22.5 ℃		R	elative Hum	idity 5	5.4%	
Press	sure	960hPa		Т	est Voltage	٢	ormal Volt	age
Test N	Mode	Mode 2		4	Antenna Polarity Vertical			
	130			FCC Part 15C				
	110							
	100 90	Fundamental Fr	equency					
	80							
	60 50							
	50 For a construction of the construction of t		<u></u>			• • • • • • • • • • • • • • • • • • •	5	
	40 30	بوالالدى بالكرامية المجالي المساولة والمكرر المواد ومديع ومديع	inperiode and provide a stranger of the second s	www.www.www.www.www.	YHT TYPE AND A CONTRACTORY AND A CONTRACTORY	teenstansastensituppagpilation	and the second	
	20							
	10							
	-10							
	0	2G	36	4G Frequency[Hz]	6G	86		18G
	-10	AV Limit Vert			6G	8G		18G
	0 -10 IG PK Limit * AV Detector	— AV Limit — Vert	ical PK	Frequency[Hz]			Angle	
NO.	0 -10 1G —— PK Limit	AV Limit Vert			6G Margin [dB]	BC Height [cm]	Angle [°]	18G Polarity
NO.	0 -10 1G PK Limit * AV Detector Freq.	— AV Limit — Vert	Factor	Frequency[Hz]	Margin	Height		
	0 -10 1G PK Limit * AV Detector Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Frequency[Hz] Limit [dBµV/m]	Margin [dB]	Height [cm]	[°]	Polarity
1	0 -10 1G PK Limit * AV Detector Freq. [MHz] 2904.190419	Level [dBµV/m] 38.85	Factor [dB] -12.02	Limit [dBµV/m] 74.00	Margin [dB] 35.15	Height [cm] 150	[°] 277	Polarity Vertical
1 2	o -10 -10 -10 -10 -10 -10 -10 -10	Level [dBµV/m] 38.85 40.72	Factor [dB] -12.02 -7.56	Frequency[Hz]	Margin [dB] 35.15 33.28	Height [cm] 150 150	[°] 277 4	Polarity Vertical Vertical
1 2 3	0 -10 16 	Level [dBµV/m] 38.85 40.72 45.80	Factor [dB] -12.02 -7.56 -4.58	Erequency[Hz]	Margin [dB] 35.15 33.28 28.20	Height [cm] 150 150 150	[°] 277 4 325	Polarity Vertical Vertical Vertical

RESULT: Pass



EUT	Name	Wireless Head	phone		Mod	el Name	A	3878L	
Temp	erature	22.5 ℃			Rela	tive Humid	lity 5	5.4%	
Press	sure	960hPa			Test	Voltage	- N	Normal Volta	ge
Test I	Node	Mode 3				Antenna Polarity Horizontal			
	130 120 110 100 90 80 70 60 50 40 30 40 30 10 10 10 10 10 90 90 90 90 90 90 90 90 90 90 90 90 90	Fundamental I		FCC Pa	rt 15C				186
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limi [dBµV		Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2084.708471	39.10	-13.21	74.0	0	34.90	150	94	Horizontal
2	2890.589059	38.89	-12.02	74.0	0	35.11	150	335	Horizontal
3	6510.251025	46.48	-4.47	74.0		27.52	150	171	Horizontal
4	9920.792079	48.88	-0.15	74.0	0	25.12	150	316	Horizontal
5	10813.381338		2.05	74.0		24.70	150	316	Horizontal
6	15993.79938	48.43	4.90	74.0	0	25.57	150	354	Horizontal

Radiated Emissions Test Results for Above 1GHz

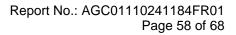


EUT Name	Wireless Head	phone	Мос	del Name	A3	878L	
Temperature	22.5 ℃		Rela	ative Humid	lity 55	.4%	
Pressure	960hPa		Tes	t Voltage	No	ormal Volta	ge
Test Mode	Mode 3		Ant	tenna Polarity Vertical			
130 120 110 100 90 80 70 60 30 40 40 30 40 40 30 40 10 10 10 90 80 60 90 80 90 90 80 90 90 80 90 90 80 90 90 80 90 90 90 90 90 90 90 90 90 90 90 90 90	2G — AV Limit — Ver	36	ECC Part 15C	6G	8G		
NO. Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1 2098.309831	38.34	-13.17	74.00	35.66	150	180	Vertical
2 3138.813881	39.60	-11.60	74.00	34.40	150	252	Vertical
3 4750.575058	40.41	-7.82	74.00	33.59	150	156	Vertical
4 6438.843884	47.13	-4.60	74.00	26.87	150	243	Vertical
5 9920.792079	48.56	-0.15	74.00	25.44	150	1	Vertical
6 10961.29613	48.77	2.53	74.00	25.23	150	151	Vertical
7 15873.087309	47.86	4.61	74.00	26.14	150	238	Vertical

RESULT: Pass

Note:

- 1. The amplitude of other spurious emissions from 18G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.
- 2. Factor = Antenna Factor + Cable loss Pre-amplifier gain, Margin = Emission Level-Limit.
- 3. The "Factor" value can be calculated automatically by software of measurement system.



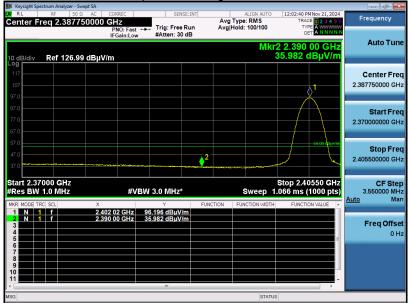


EUT Name	Wireless Headphone	Model Name	A3878L
Temperature	23.2 ℃	Relative Humidity	61%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna Polarity	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass

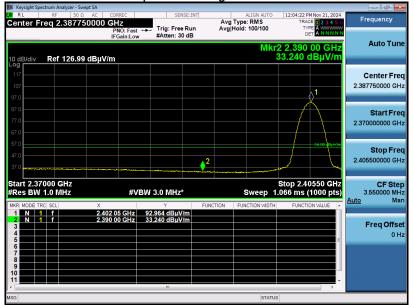


EUT Name	Wireless Headphone	Model Name	A3878L
Temperature	23.2℃	Relative Humidity	61%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna Polarity	Vertical



Test Graph for Peak Measurement

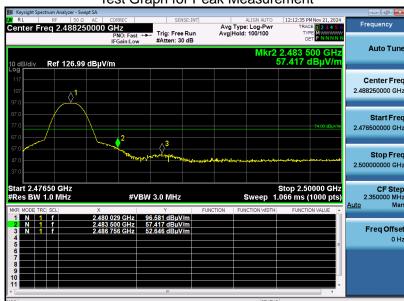
Test Graph for Average Measurement



RESULT: Pass



EUT Name	Wireless Headphone	Model Name	A3878L
Temperature	23.2 ℃	Relative Humidity	61%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna Polarity	Horizontal

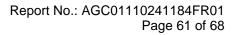


Test Graph for Peak Measurement

Test Graph for Average Measurement



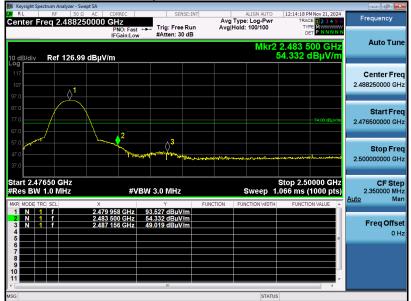
RESULT: Pass



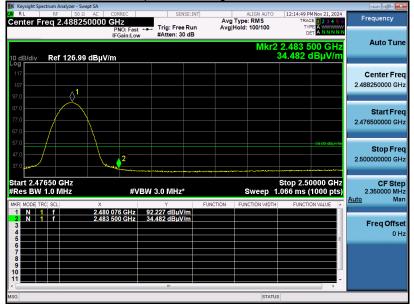


EUT Name	Wireless Headphone	Model Name	A3878L
Temperature	23.2 ℃	Relative Humidity	61%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna Polarity	Vertical

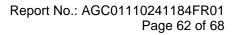
Test Graph for Peak Measurement



Test Graph for Average Measurement



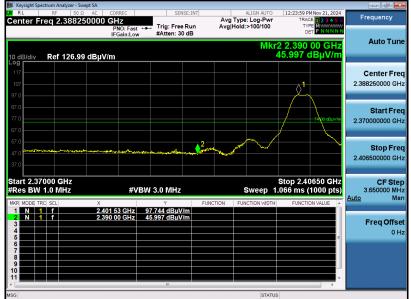
RESULT: Pass



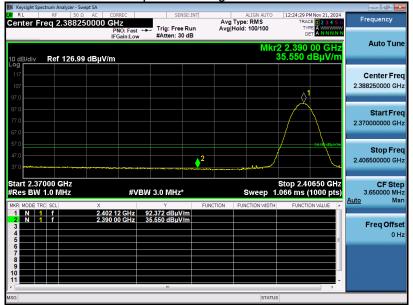


EUT Name	Wireless Headphone	Model Name	A3878L
Temperature	23.2 ℃	Relative Humidity	61%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna Polarity	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: Pass

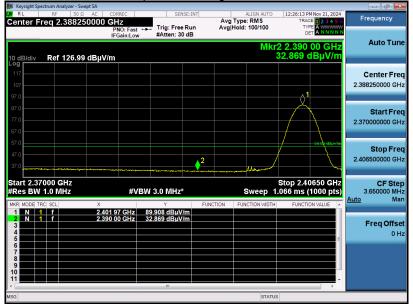


EUT Name	Wireless Headphone	Model Name	A3878L
Temperature	23.2 °C	Relative Humidity	61%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna Polarity	Vertical



Test Graph for Peak Measurement

Test Graph for Average Measurement



RESULT: Pass

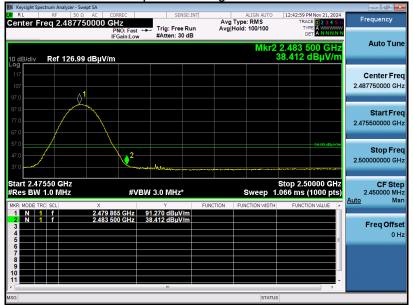


EUT Name	Wireless Headphone	Model Name	A3878L
Temperature	23.2℃	Relative Humidity	61%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 6	Antenna Polarity	Horizontal

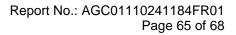


Test Graph for Peak Measurement

Test Graph for Average Measurement



RESULT: Pass



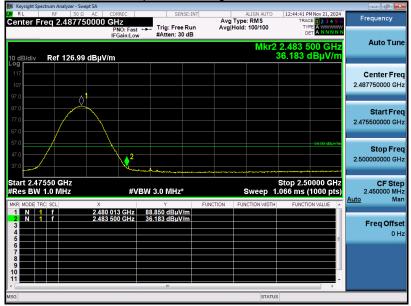


EUT Name	Wireless Headphone	Model Name	A3878L
Temperature	23.2 ℃	Relative Humidity	61%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 6	Antenna Polarity	Vertical

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. AC Power Line Conducted Emission Test

12.1 Measurement Limit

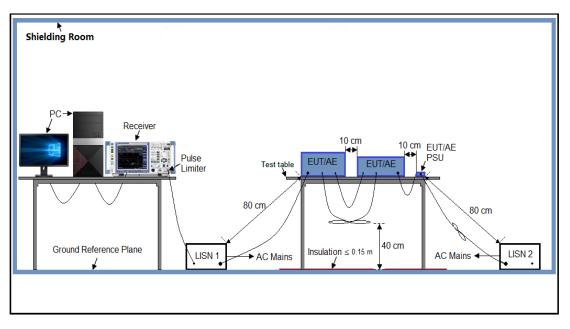
Francisco	Maximum RF Line Voltage		
Frequency	Q.P. (dBµV)	Average (dBµV)	
150kHz~500kHz	66-56	56-46	
500kHz~5MHz	56	46	
5MHz~30MHz	60	50	

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 Measurement Setup (Block Diagram of Configuration)





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 equipment received AC120V/60Hz power from a LISN, if any.
- 5. The EUT 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 Measurement Results

N/A

Note: The BT function cannot transmit when charging



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Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC01110241184AP01

Appendix II: Photographs of Test EUT

Refer to the Report No.: AGC01110241184AP02

-----End of Report-----



Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").

2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.

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

4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.

5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.

6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.

7.Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.

8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.

9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.