

APPLICATION CERTIFICATION FCC Part 15C&RSS-210
On Behalf of
Edifier International Limited

5.8G Wireless Audio Transceiver/Receiver Module
Model No.: EV01S

FCC ID: Z9G-EDF54

IC: 10004A-EDF54

Prepared for : Edifier International Limited
Address : P.O. Box 6264, General Post Office, Hong Kong

Prepared by : Shenzhen Accurate Technology Co., Ltd.
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Report Number : ATE20191550
Date of Test : June 21, 2019-Sep. 25, 2019
Date of Report : Oct. 21, 2019

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Test Report Certification

Applicant : Edifier International Limited
Address : P.O. Box 6264, General Post Office, Hong Kong
Manufacturer : Beijing Edifier Technology Co., Ltd.
Address : 8th floor, ZuoAn Building, NO.68 BeiSiHuanXiLu, Haidian District, Beijing 100080, CHINA
Factory : Dongguan Edifier Technology Co., Ltd.
Address : No.2 Gongyedong Road, Songshan Lake Sci&Tech Industry Park, Dongguan,Guangdong 523808, P.R.China
Product : 5.8G Wireless Audio Transceiver/Receiver Module
Model No. : EV01S
Trade name : N/A

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.249
RSS-210 Issue 9 August 2016
RSS-Gen Issue 5 March 2019
ANSI C63.10: 2013

The EUT was tested according to FCC 47CFR 15.249 for compliance to FCC 47CFR 15.249 requirements.

The EUT was tested according to RSS-210 for compliance to RSS-210 requirements.

The device described above is tested by Shenzhen Accurate Technology Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section 15.249 and RSS-210 limits. The measurement results are contained in this test report and Shenzhen Accurate Technology Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Shenzhen Accurate Technology Co., Ltd.

Date of Test :
Date of Report :

June 21, 2019-Sep. 25, 2019

Oct. 21, 2019

Prepared by :



Approved & Authorized Signer : _____
(Sean Liu, Manager)

Shenzhen Accurate Technology Co., Ltd.

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1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT : 5.8G Wireless Audio Transceiver/Receiver Module
Model No. : EV01S
HVIN : EV01S
Trade Name : N/A
Power Supply : DC 3.3V via Host
Operate Frequency : 5731-5820MHz
Number of channel : 25
Modulation mode : FSK
Antenna Gain : 1.57dBi
Antenna type : Internal Antenna
Applicant : Edifier International Limited
Address : P.O. Box 6264, General Post Office, Hong Kong
Manufacturer : Beijing Edifier Technology Co., Ltd.
Address : 8th floor, ZuoAn Building, NO.68 BeiSiHuanXiLu, Haidian District, Beijing 100080, CHINA
Factory : Dongguan Edifier Technology Co., Ltd.
Address : No.2 Gongyedong Road, Songshan Lake Sci&Tech Industry Park, Dongguan,Guangdong 523808, P.R.China
Date of sample received : June 20, 2019
Date of Test : June 21, 2019-Sep. 25, 2019

1.2. Special Accessory and Auxiliary Equipment

PC

Manufacturer: LENOVO
M/N: ThinkPad X240
S/N: N/A

B8 Soundbar

Manufacturer: Edifier

1.3. Carrier Frequency of Channels

Channel	Frequency (MHz)						
1	5731	8	5753	15	5781	22	5811
2	5733	9	5757	16	5787	23	5813
3	5737	10	5761	17	5791	24	5817
4	5739	11	5767	18	5793	25	5820
5	5743	12	5771	19	5797		
6	5747	13	5773	20	5801		
7	5751	14	5777	21	5807		

1.4. Description of Test Facility

EMC Lab	: Recognition of accreditation by Federal Communications Commission (FCC) The Designation Number is CN1189 The Registration Number is 708358
	Listed by Innovation, Science and Economic Development Canada (ISED) The Registration Number is 5077A-2
	Accredited by China National Accreditation Service for Conformity Assessment (CNAS) The Registration Number is CNAS L3193
	Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 4297.01
Name of Firm Site Location	: Shenzhen Accurate Technology Co., Ltd. : 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China

1.5. Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.72dB, k=2
(Mains ports, 9kHz-30MHz)

Radiated emission expanded uncertainty = 2.66dB, k=2
(9kHz-30MHz)

Radiated emission expanded uncertainty = 4.28dB, k=2
(30MHz-1000MHz)

Radiated emission expanded uncertainty = 4.98dB, k=2
(1G-18GHz)

Radiated emission expanded uncertainty = 5.06dB, k=2
(18G-26.5GHz)

2. MEASURING DEVICE AND TEST EQUIPMENT

2.1. For Radiated Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan.05, 2019	1 Year
2.	Spectrum Analyzer	Rohde&Schwarz	FSV40	101495	Jan.05, 2019	1 Year
3.	Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan.05, 2019	1 Year
4.	Test Receiver	Rohde & Schwarz	ESPI	100396/003	Jan.05, 2019	1 Year
5.	Test Receiver	Rohde & Schwarz	ESPI	101526/003	Jan.05, 2019	1 Year
6.	Test Receiver	Rohde & Schwarz	ESR	101817	Jan.05, 2019	1 Year
7.	Bilog Antenna	Schwarzbeck	VULB9163	9163-194	Jan.05, 2019	1 Year
8.	Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan.05, 2019	1 Year
9.	Log.-Per.Antenna	Schwarzbeck	VUSLP 9111B	9111B-074	Jan.05, 2019	1 Year
10.	Biconical Broad Band Antenna	Schwarzbeck	VHBB 9124+BBA 9106	9124-617	Jan.05, 2019	1 Year
11.	Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan.05, 2019	1 Year
12.	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan.05, 2019	1 Year
13.	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1067	Jan.05, 2019	1 Year
14.	Vertical Active Monopole Antenna	Schwarzbeck	VAMP 9243	9243-370	Jan.05, 2019	1 Year
15.	RF Switching Unit+PreAMP	Compliance Direction	RSU-M2	38322	Jan.05, 2019	1 Year
16.	Pre-Amplifier	Agilent	8447D	294A10619	Jan.05, 2019	1 Year
17.	Pre-Amplifier	Rohde&Schwarz	CBLU11835 40-01	3791	Jan.05, 2019	1 Year
18.	50 Coaxial Switch	Anritsu Corp	MP59B	6200237248	Jan.05, 2019	1 Year
19.	50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	Jan.05, 2019	1 Year
20.	RF Coaxial Cable	Schwarzbeck	N-5m	No.1	Jan.05, 2019	1 Year
21.	RF Coaxial Cable	Schwarzbeck	N-1m	No.6	Jan.05, 2019	1 Year
22.	RF Coaxial Cable	Schwarzbeck	N-1m	No.7	Jan.05, 2019	1 Year
23.	RF Coaxial Cable	SUHNER	N-3m	No.8	Jan.05, 2019	1 Year
24.	RF Coaxial Cable	RESENBERGER	N-3.5m	No.9	Jan.05, 2019	1 Year
25.	RF Coaxial Cable	SUHNER	N-6m	No.10	Jan.05, 2019	1 Year
26.	RF Coaxial Cable	RESENBERGER	N-12m	No.11	Jan.05, 2019	1 Year
27.	RF Coaxial Cable	RESENBERGER	N-0.5m	No.12	Jan.05, 2019	1 Year
28.	RF Coaxial Cable	SUHNER	N-2m	No.13	Jan.05, 2019	1 Year
29.	RF Coaxial Cable	SUHNER	N-0.5m	No.15	Jan.05, 2019	1 Year
30.	RF Coaxial Cable	SUHNER	N-2m	No.16	Jan.05, 2019	1 Year
31.	RF Coaxial Cable	RESENBERGER	N-6m	No.17	Jan.05, 2019	1 Year

Radiated Emission Measurement Software: EZ_EMCA V1.1.4.2

2.2. The Equipment Used to Measure Conducted Disturbance (L.I.S.N)

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESCS30	100307	Jan.05, 2019	1 Year
2.	Test Receiver	Rohde & Schwarz	ESPI3	100396/003	Jan.05, 2019	1 Year
3.	Test Receiver	Rohde & Schwarz	ESPI3	101526/003	Jan.05, 2019	1 Year
4.	L.I.S.N.	Schwarzbeck	NLSK8126	8126431	Jan.05, 2019	1 Year
5.	L.I.S.N.	Rohde & Schwarz	ESH3-Z5	100305	Jan.05, 2019	1 Year
6.	L.I.S.N.	Rohde & Schwarz	ESH3-Z5	100310	Jan.05, 2019	1 Year
7.	L.I.S.N.	Rohde & Schwarz	ESH3-Z6	100132	Jan.05, 2019	1 Year
8.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100305	Jan.05, 2019	1 Year
9.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100312	Jan.05, 2019	1 Year
10.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100815	Jan.05, 2019	1 Year
11.	50Ω Coaxial Switch	Anritsu Corp	MP59B	6200283936	Jan.05, 2019	1 Year
12.	50Ω Coaxial Switch	Anritsu Corp	MP59B	6200283933	Jan.05, 2019	1 Year
13.	50Ω Coaxial Switch	Anritsu Corp	MP59B	6200506474	Jan.05, 2019	1 Year
14.	VOLTAGE PROBE	Schwarzbeck	TK9416	N/A	Jan.05, 2019	1 Year
15.	RF CURRENT PROBE	Rohde & Schwarz	EZ-17	100048	Jan.05, 2019	1 Year
16.	8-Wire Impedance Stabilisation Network	Schwarzbeck	CAT5 8158	8158-0035	Jan.05, 2019	1 Year
17.	RF Coaxial Cable	SUHNER	N-2m	No.2	Jan.05, 2019	1 Year
18.	RF Coaxial Cable	SUHNER	N-2m	No.3	Jan.05, 2019	1 Year
19.	RF Coaxial Cable	SUHNER	N-2m	No.14	Jan.05, 2019	1 Year
Conducted Emission Measurement Software: ES-K1 V1.71						

3. OPERATION OF EUT DURING TESTING

3.1. Operating Mode

The mode is used: **Transmitting mode**

Low Channel: 5731 MHz
Middle Channel: 5773 MHz
High Channel: 5820 MHz

3.2. Configuration and peripherals

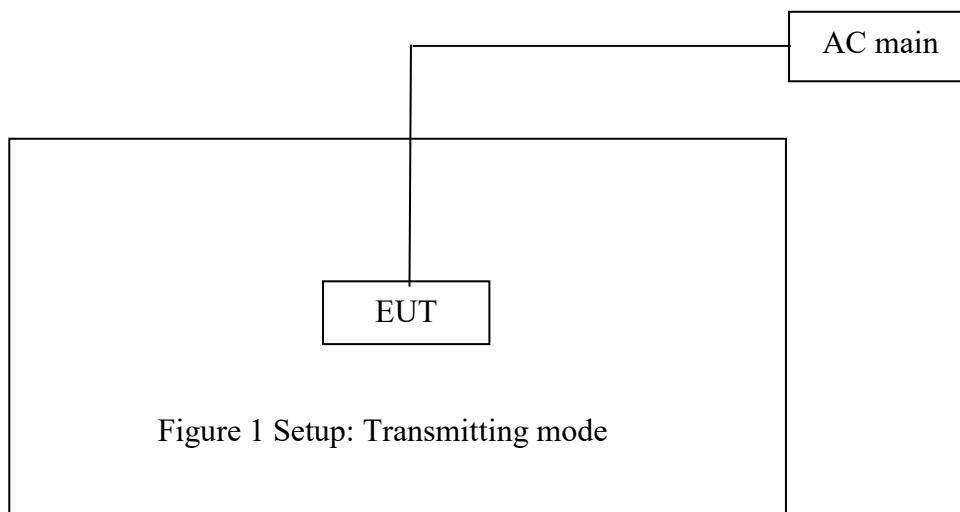


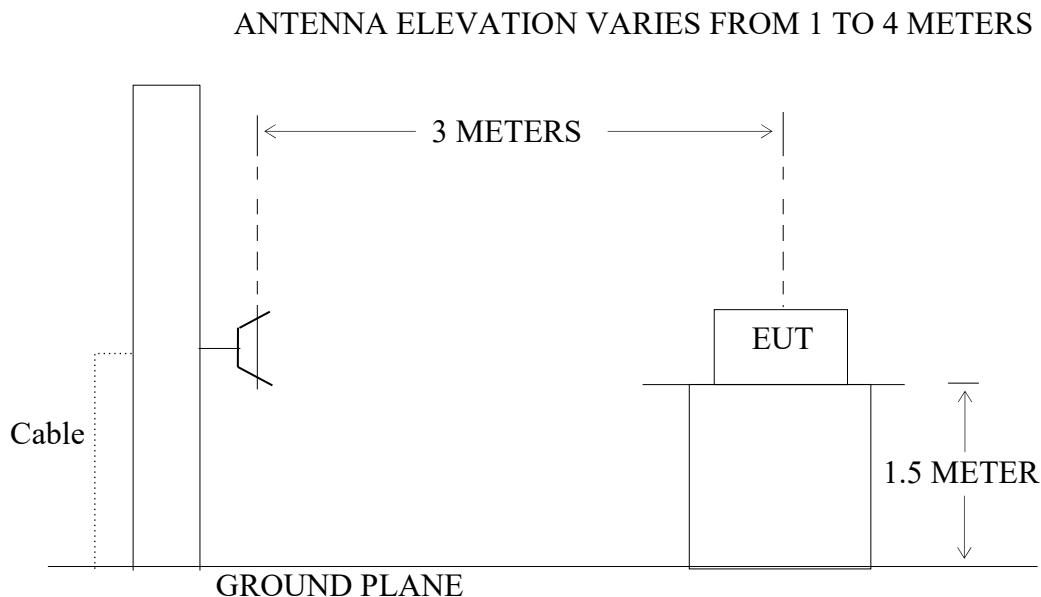
Figure 1 Setup: Transmitting mode

4. TEST PROCEDURES AND RESULTS

FCC&IC Rules	Description of Test	Result
FCC Section 15.249(d) RSS-210 Section B10 (b)	Band Edge Compliance Test	Compliant
FCC Section 15.205(a), FCC Section 15.209(a), FCC Section 15.249, FCC Section 15.35 RSS-GEN Section 6.13	Radiated Spurious Emission Test	Compliant
FCC Section 15.207 RSS-Gen Section 8.8	AC Power Line Conducted Emission Test	Compliant
Remark: The limited modular(FCC ID: Z9G-EDF54, grant date: 25 August 2017; IC: 10004A-EDF54, grant date: 25 August 2017) inserts to end-product(Model: B8 soundbar), the additional test item Radiated Spurious Emission, Radiated Band Edge and AC Power Line Conducted Emission were performed on end-product.		

5. BAND EDGE COMPLIANCE TEST

5.1. Block Diagram of Test Setup



5.2. The Requirement For Section 15.249

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph A8.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

5.3. EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

5.4. Operating Condition of EUT

5.4.1. Setup the EUT and simulator as shown as Section 7.1.

7.4.2. Turn on the power of all equipment.

7.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 5731MHz, 5820MHz.

5.5. Test Procedure

Radiate Band Edge:

5.5.1. The EUT is placed on a turntable, which is 1.5m above the ground plane and worked at highest radiated power.

5.5.2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.

5.5.3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.

5.5.4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:

RBW=1MHz, VBW=1MHz

5.5.5. The band edges was measured and recorded.

5.6. Test Result

Job No.: LGW2019 #3315

Polarization: Horizontal

Standard: FCC (Band Edge)

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 19/09/23/

Temp.(C)/Hum.(%) 23 C / 48 %

Time:

EUT: B8 Soundbar Active Speaker system

Engineer Signature: WADE

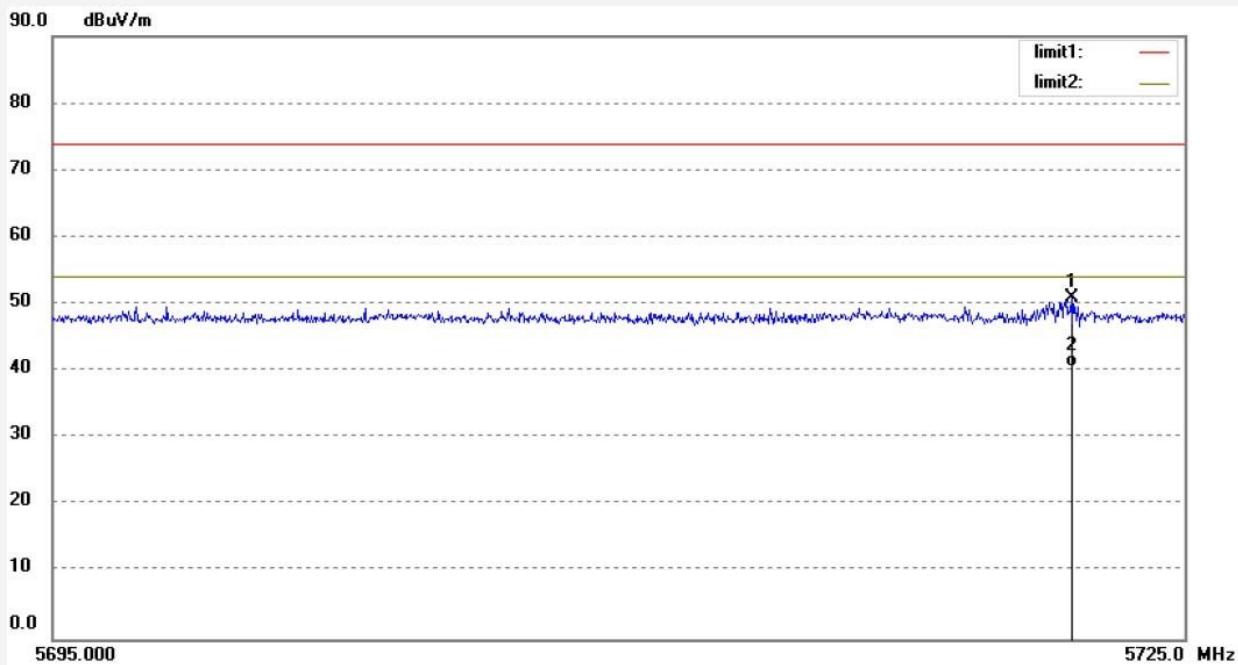
Mode: TX 5731MHz

Distance: 3m

Model: B8 bass

Manufacturer: EDIFIER

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5722.000	40.78	10.14	50.92	74.00	-23.08	peak			
2	5722.000	30.40	10.14	40.54	54.00	-13.46	AVG			

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Job No.: LGW2019 #3314

Polarization: Vertical

Standard: FCC (Band Edge)

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 19/09/23/

Temp.(C)/Hum.(%) 23 C / 48 %

Time:

EUT: B8 Soundbar Active Speaker system

Engineer Signature: WADE

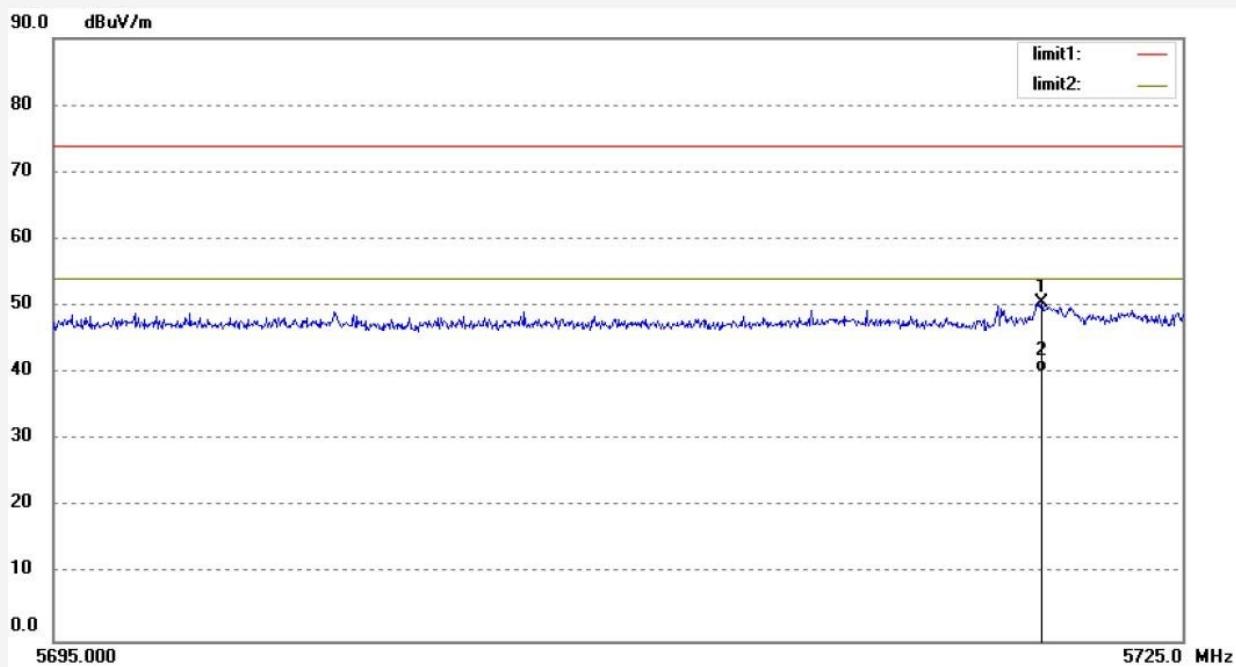
Mode: TX 5731MHz

Distance: 3m

Model: B8 bass

Manufacturer: EDIFIER

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5721.250	40.33	10.13	50.46	74.00	-23.54	peak			
2	5721.250	30.11	10.13	40.24	54.00	-13.76	AVG			

Job No.: LGW2019 #3320

Polarization: Horizontal

Standard: FCC (Band Edge)

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 19/09/23/

Temp.(C)/Hum.(%) 23 C / 48 %

Time:

EUT: B8 Soundbar Active Speaker system

Engineer Signature: WADE

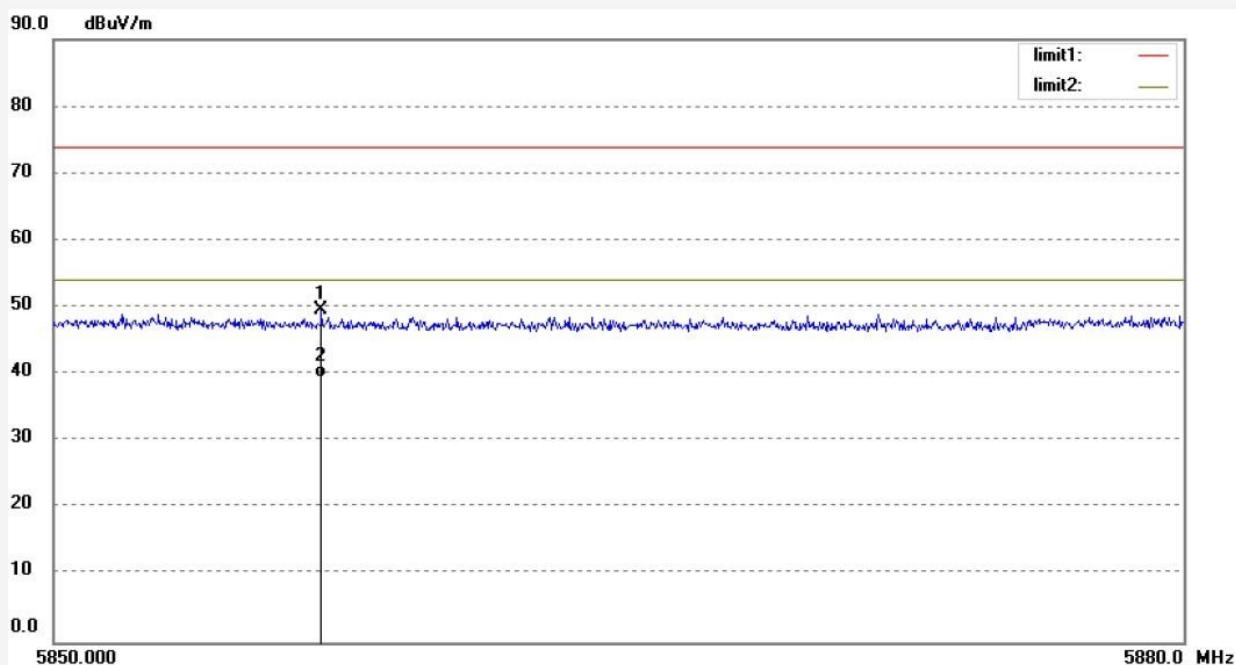
Mode: TX 5820MHz

Distance: 3m

Model: B8 bass

Manufacturer: EDIFIER

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5857.110	38.84	10.77	49.61	74.00	-24.39	peak			
2	5857.110	28.68	10.77	39.45	54.00	-14.55	AVG			

Job No.: LGW2019 #3321

Polarization: Vertical

Standard: FCC (Band Edge)

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 19/09/23/

Temp.(C)/Hum.(%) 23 C / 48 %

Time:

EUT: B8 Soundbar Active Speaker system

Engineer Signature: WADE

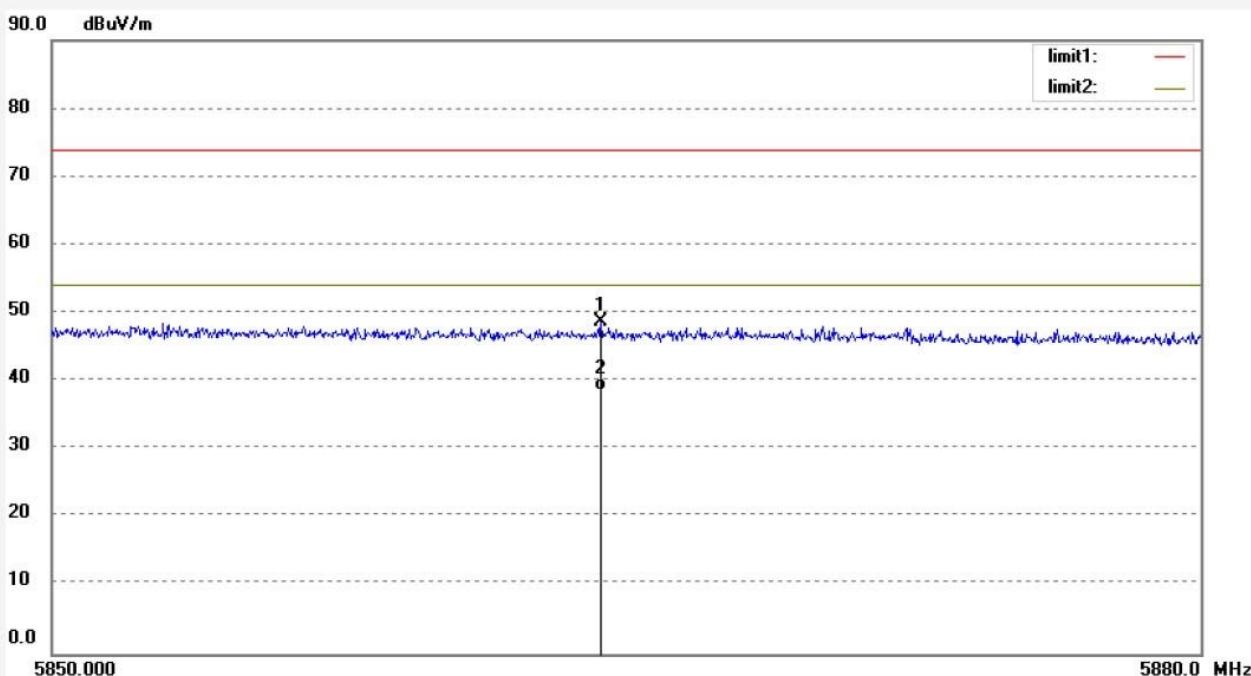
Mode: TX 5820MHz

Distance: 3m

Model: B8 bass

Manufacturer: EDIFIER

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5864.340	37.90	10.79	48.69	74.00	-25.31	peak			
2	5864.340	27.85	10.79	38.64	54.00	-15.36	AVG			

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:
Result = Reading + Corrected Factor
3. Display the measurement of peak values.
4. The average measurement was not performed when peak measured data under the limit of average detection.

6. RADIATED SPURIOUS EMISSION TEST

6.1. Block Diagram of Test Setup

6.1.1. Block diagram of connection between the EUT and peripherals

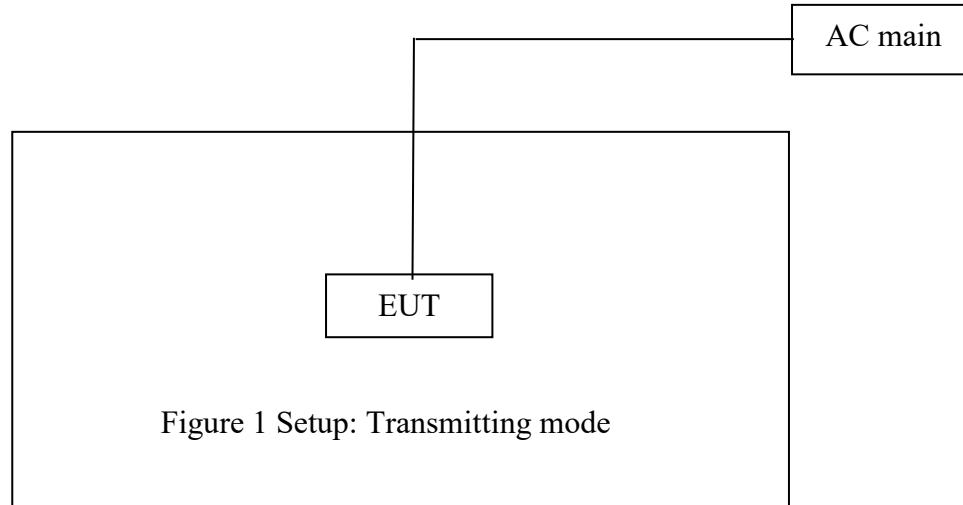
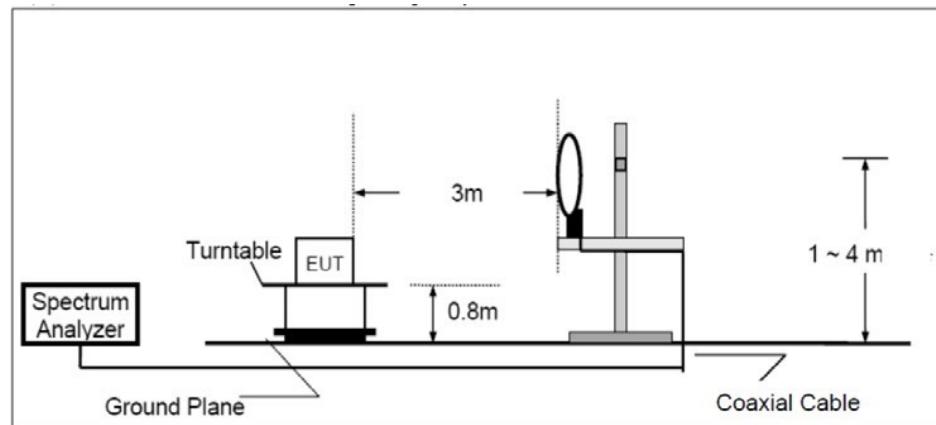


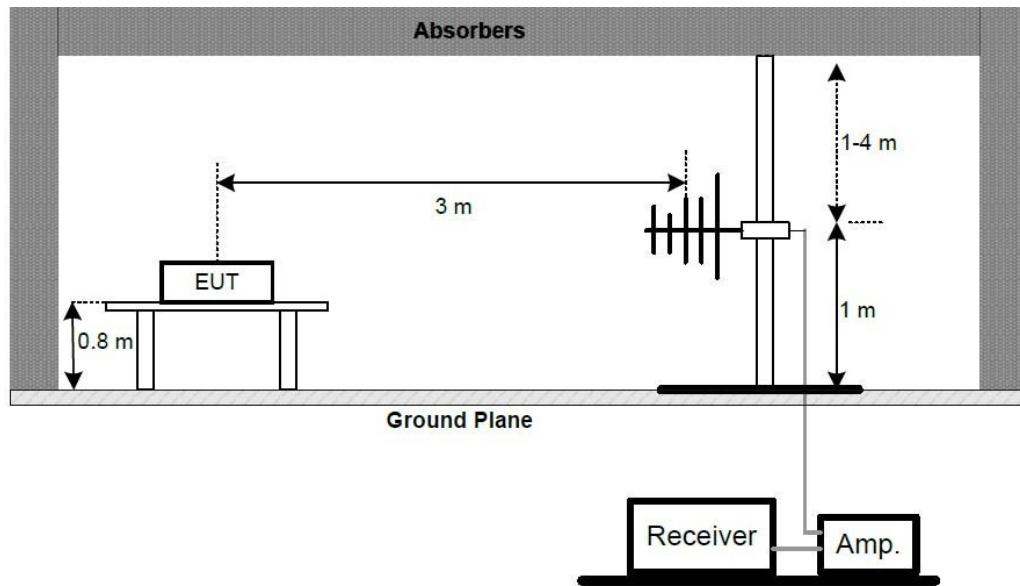
Figure 1 Setup: Transmitting mode

6.1.2. Semi-Anechoic Chamber Test Setup Diagram

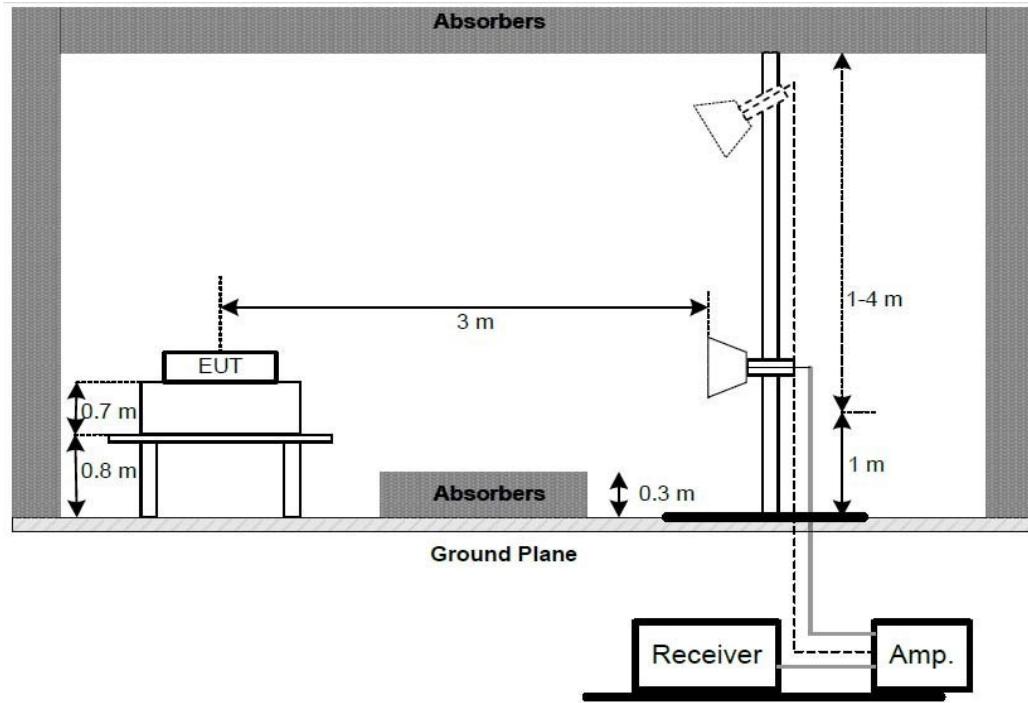
(A) Radiated Emission Test Set-Up, Frequency below 30MHz



(B) Radiated Emission Test Set-Up, Frequency below 1GHz



(C) Radiated Emission Test Set-Up, Frequency above 1GHz



6.2. The Limit For Section 15.249

Except as provided in paragraph (b) of this section of FCC part C Section 15.249, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24.0–24.25 GHz	250	2500

For products working in the 5725-5875MHz band, According to 15.249(a) the Avg limit of fundamental frequency is 94.00dBuV/m. The corresponding peak limit is 114.00dBuV/m. Field strength limits are specified at a distance of 3 meters.

6.3. Restricted bands of operation

6.3.1. FCC Part 15.205 Restricted bands of operation

- (a) Except as shown in paragraph (d) of this section, Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510

²Above 38.6

- (b) Except as provided in paragraphs (d) and (e), the field strength of emission appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000MHz, Compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

6.4. Configuration of EUT on Measurement

The equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

6.5. Operating Condition of EUT

6.5.1. Setup the EUT and simulator as shown as Section 8.1.

8.5.2. Turn on the power of all equipment.

8.5.3. Let the EUT work in TX modes then measure it. The transmit frequency are 5731MHz, 5773MHz, 5820MHz.

6.6. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter(Below 1GHz) and 1.5m(Above 1GHz) high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

The bandwidth of test receiver is set at 9 kHz in below 30MHz. and set at 120 kHz in 30-1000MHz, and 1MHz in above 1000MHz.

The frequency range from 9 kHz to 40GHz is checked.

The final measurement in band 9-90 kHz, 110-490 kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

RBW (120 kHz), VBW (300 kHz) for QP detector below 1GHz
Peak detector above 1GHz

Shenzhen Accurate Technology Co., Ltd.

Address: 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China
Tel: +86-755-26503290 Fax: +86-755-26503396 E-mail: webmaster@atc-lab.com [Http://www.atc-lab.com](http://www.atc-lab.com)

RBW (1 MHz), VBW (3MHz) for Peak measurement
 RBW (1 MHz), VBW (10Hz) for AV measurement

The field strength is calculated by adding the antenna factor, and cable loss, and subtracting the amplifier gain from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

6.7. DATA SAMPLE

Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Remark
X.XX	49.83	-22.03	27.80	43.50	-15.70	QP

Frequency(MHz) = Emission frequency in MHz

Reading(dB μ V) = Uncorrected Analyzer/Receiver reading

Factor (dB/m)= Antenna factor + Cable Loss – Amplifier gain

Result(dB μ V/m) = Reading + Factor

Limit (dB μ V/m)= Limit stated in standard

Margin (dB) = Result(dB μ V/m) - Limit (dB μ V/m)

Calculation Formula:

Margin(dB) = Result (dB μ V/m)–Limit(dB μ V/m)

Result(dB μ V/m)= Reading(dB μ V)+ Factor(dB/m)

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the limit.

6.8. The Field Strength of Radiation Emission Measurement Results **PASS.**

Note: 1. The radiation emissions from 26.5GHz-40GHz are not reported, because the test values lower than the limits of 20dB.

2. *: Denotes restricted band of operation.

3. The EUT is tested radiation emission in three axes. The worst emissions are reported in all channels.

4. The average measurement was not performed when peak measured data under the limit of average detection.

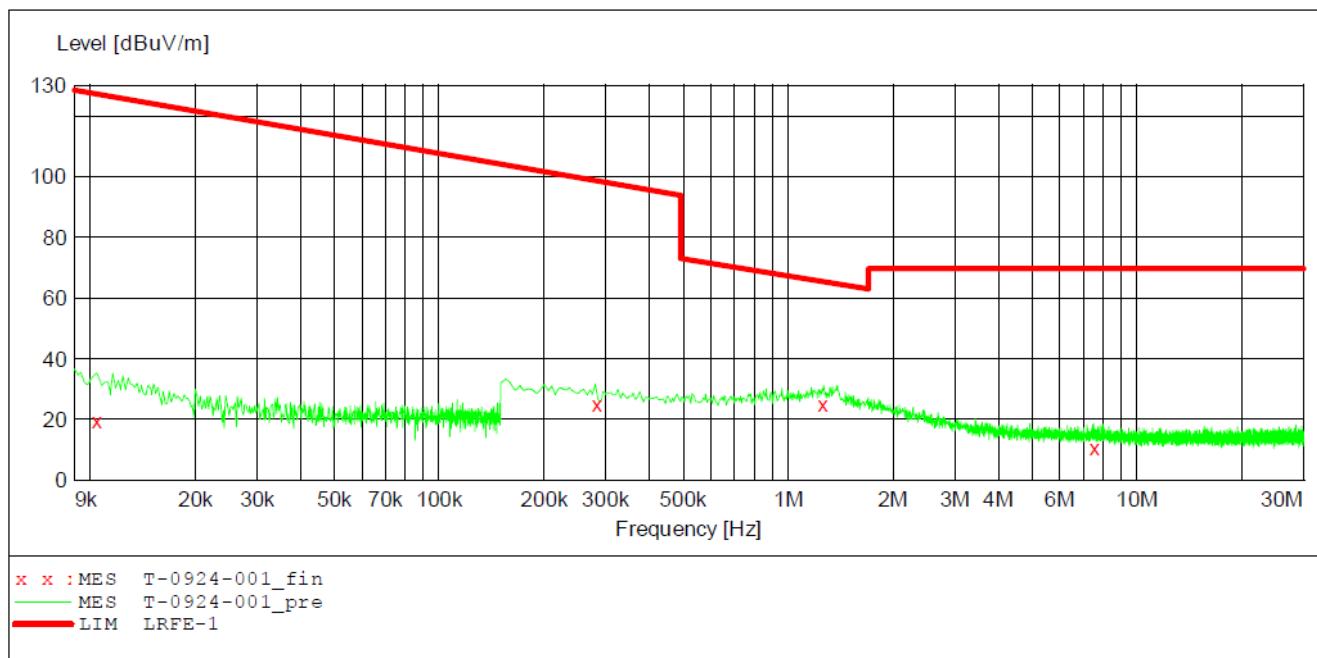
Below 30MHz

ACCURATE TECHNOLOGY CO., LTD**FCC Class B 3m Radiated**

EUT: B8 Soundbar Active Speaker system M/N:B8 bass
 Manufacturer: Edifier
 Operating Condition: TX 5731MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: AC 120V/60Hz
 Comment: X
 Start of Test: 2019-9-24 /

SCAN TABLE: "LFRE (E) Fin"

Short Description: _SUB_STD_VTERM2 1.70						
Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516E
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516E

**MEASUREMENT RESULT: "T-0924-001_fin"**

2019-9-24

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det. QP	Height cm	Azimuth deg	Polarization
0.010400	19.30	20.1	127.2	107.9	QP	100.0	0.00	HORIZONTAL
0.280000	25.10	20.2	98.7	73.6	QP	100.0	0.00	HORIZONTAL
1.250000	25.20	20.4	65.5	40.3	QP	100.0	0.00	HORIZONTAL
7.495000	10.50	20.6	69.5	59.0	QP	100.0	0.00	HORIZONTAL

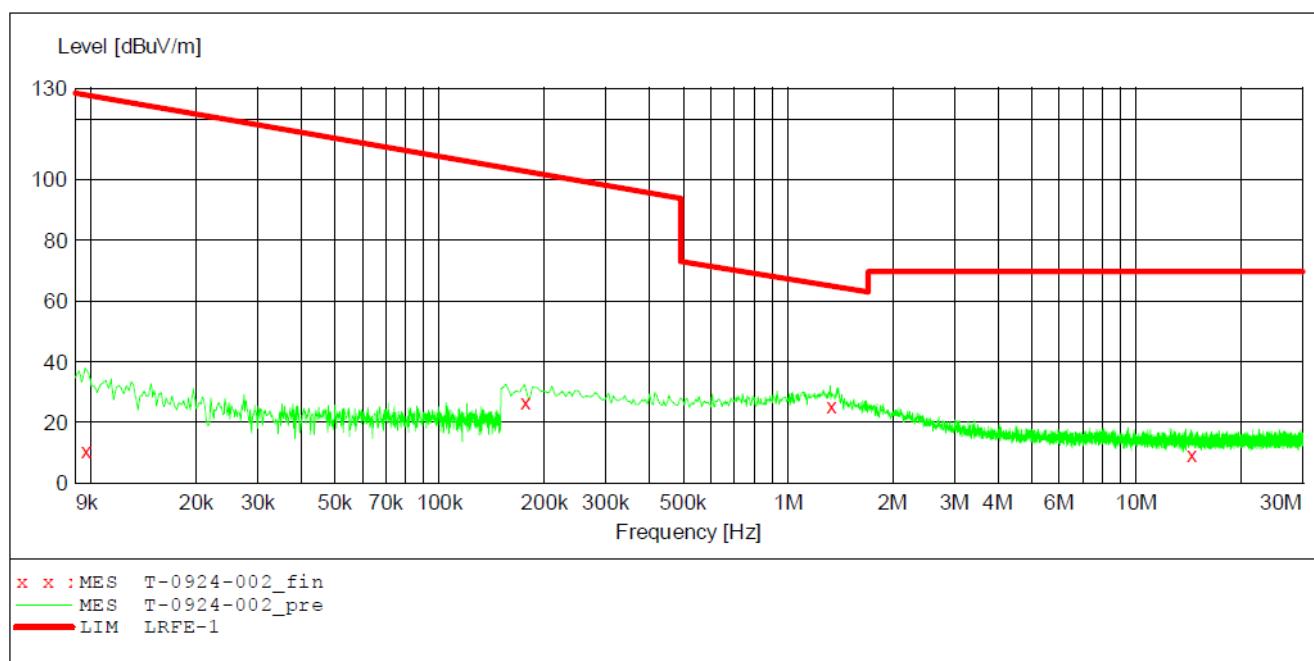
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3m Radiated

EUT: B8 Soundbar Active Speaker system M/N:B8 bass
 Manufacturer: Edifier
 Operating Condition: TX 5731MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: AC 120V/60Hz
 Comment: Y
 Start of Test: 2019-9-24 /

SCAN TABLE: "LFRE(E) Fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz 1516E
 150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz 1516E

**MEASUREMENT RESULT: "T-0924-002_fin"**

2019-9-24

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det. QP	Height cm	Azimuth deg	Polarization
0.009600	10.50	20.1	127.9	117.4	QP	100.0	0.00	HORIZONTAL
0.175000	26.70	20.2	102.7	76.0	QP	100.0	0.00	HORIZONTAL
1.320000	25.50	20.4	65.0	39.5	QP	100.0	0.00	HORIZONTAL
14.355000	9.70	21.0	69.5	59.8	QP	100.0	0.00	HORIZONTAL

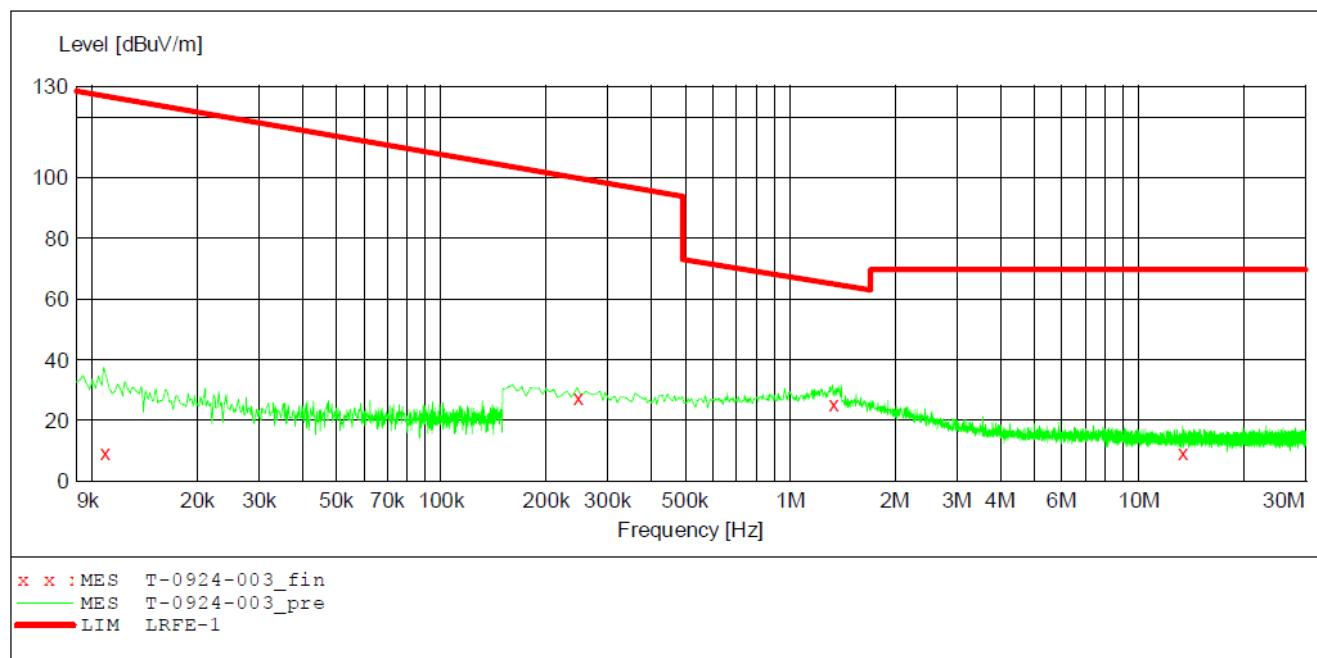
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3m Radiated

EUT: B8 Soundbar Active Speaker system M/N:B8 bass
 Manufacturer: Edifier
 Operating Condition: TX 5731MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: AC 120V/60Hz
 Comment: Z
 Start of Test: 2019-9-24 /

SCAN TABLE: "LFRE (E) Fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz 1516E
 150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz 1516E

**MEASUREMENT RESULT: "T-0924-003_fin"**

2019-9-24

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det. QP	Height cm	Azimuth deg	Polarization
0.010800	9.70	20.1	126.9	117.2	QP	100.0	0.00	HORIZONTAL
0.245000	27.70	20.2	99.8	72.1	QP	100.0	0.00	HORIZONTAL
1.320000	25.50	20.4	65.0	39.5	QP	100.0	0.00	HORIZONTAL
13.320000	9.50	20.9	69.5	60.0	QP	100.0	0.00	HORIZONTAL

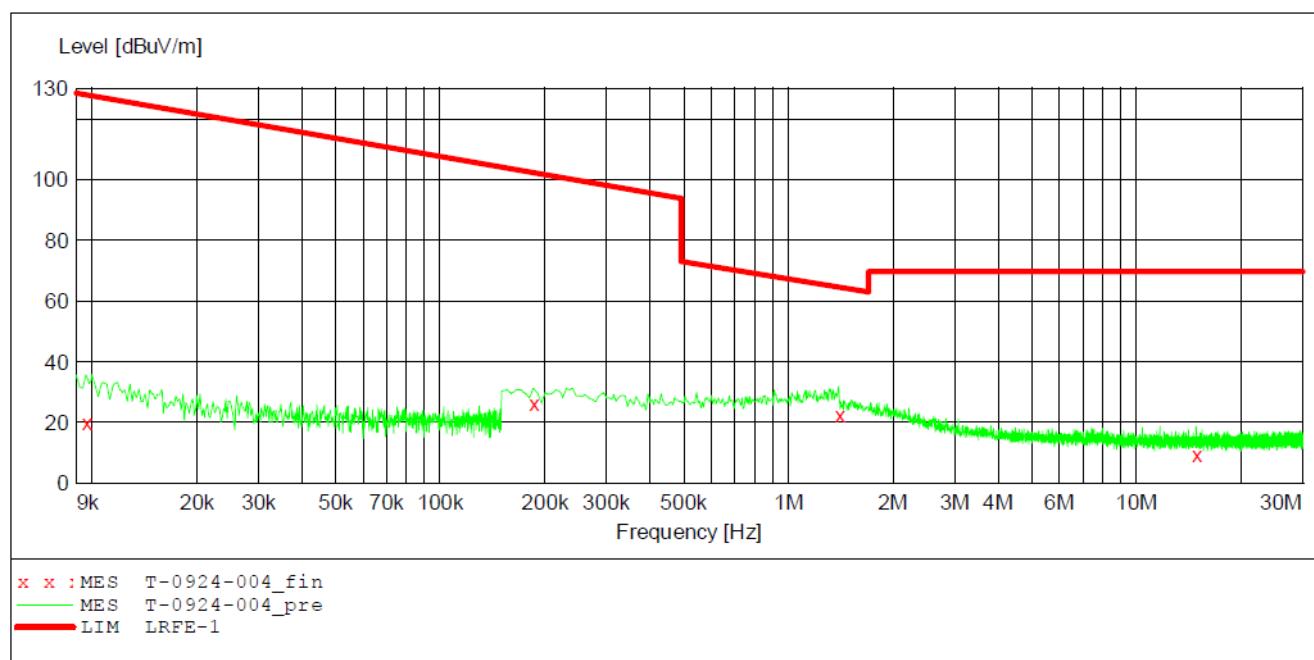
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3m Radiated

EUT: B8 Soundbar Active Speaker system M/N:B8 bass
 Manufacturer: Edifier
 Operating Condition: TX 5773MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: AC 120V/60Hz
 Comment: X
 Start of Test: 2019-9-24 /

SCAN TABLE: "LFRE(E) Fin"

Short Description: - SUB_STD_VTERM2 1.70						
Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516E
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516E

**MEASUREMENT RESULT: "T-0924-004_fin"**

2019-9-24

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det. QP	Height cm	Azimuth deg	Polarization
0.009600	19.90	20.1	127.9	108.0	QP	100.0	0.00	HORIZONTAL
0.185000	26.40	20.2	102.3	75.9	QP	100.0	0.00	HORIZONTAL
1.395000	22.60	20.4	64.6	42.0	QP	100.0	0.00	HORIZONTAL
14.840000	9.60	21.1	69.5	59.9	QP	100.0	0.00	HORIZONTAL

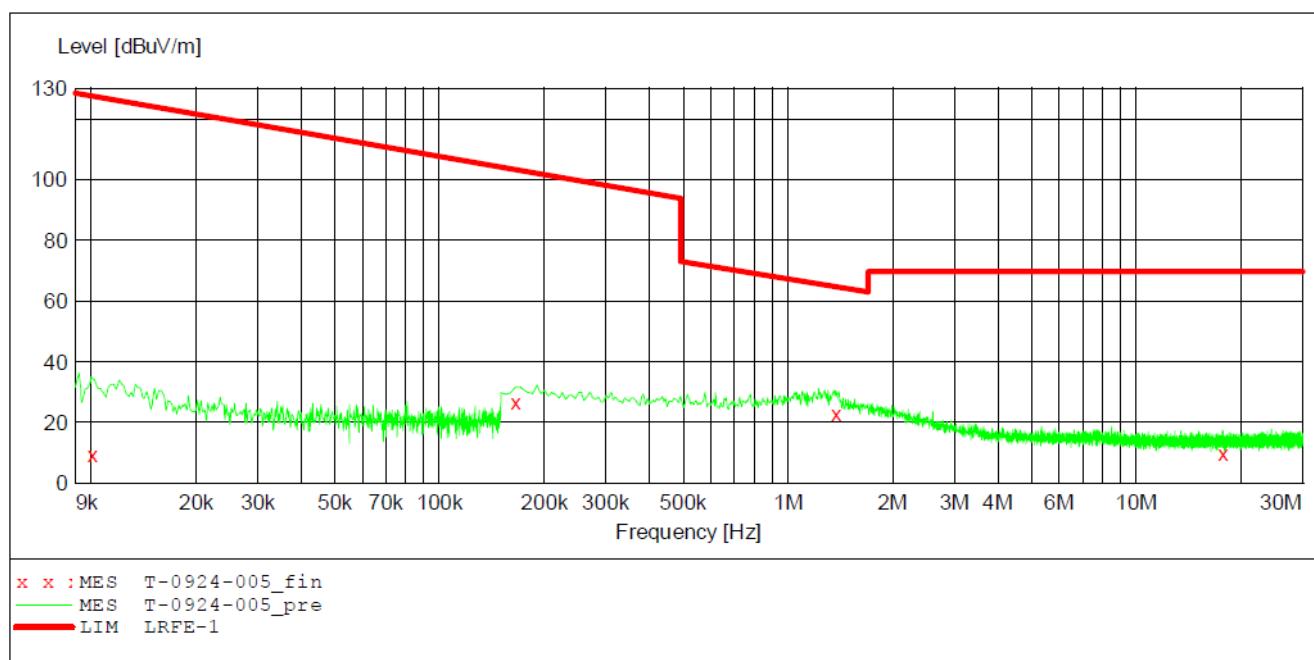
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3m Radiated

EUT: B8 Soundbar Active Speaker system M/N:B8 bass
 Manufacturer: Edifier
 Operating Condition: TX 5773MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: AC 120V/60Hz
 Comment: Y
 Start of Test: 2019-9-24 /

SCAN TABLE: "LFRE (E) Fin"

Short Description: _SUB_STD_VTERM2 1.70						
Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516E
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516E

**MEASUREMENT RESULT: "T-0924-005_fin"**

2019-9-24

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det. QP	Height cm	Azimuth deg	Polarization
0.010000	9.60	20.1	127.6	118.0	QP	100.0	0.00	HORIZONTAL
0.165000	26.70	20.2	103.2	76.5	QP	100.0	0.00	HORIZONTAL
1.365000	22.90	20.4	64.8	41.9	QP	100.0	0.00	HORIZONTAL
17.630000	9.80	21.3	69.5	59.7	QP	100.0	0.00	HORIZONTAL

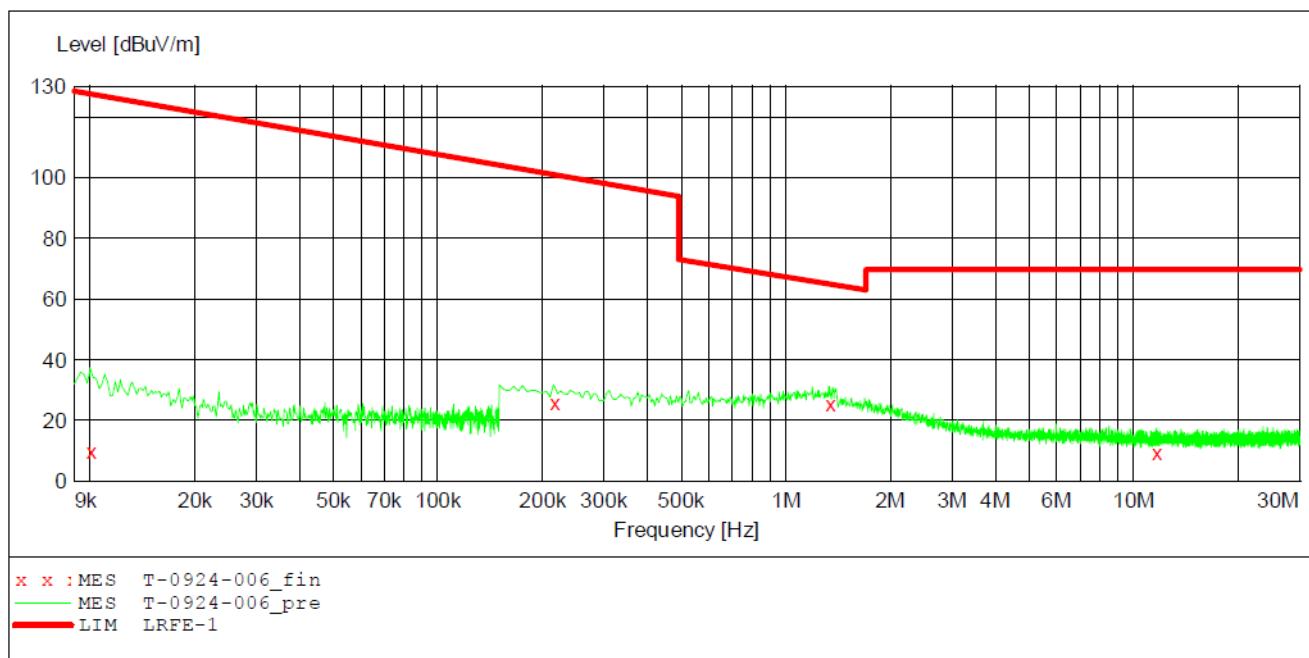
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3m Radiated

EUT: B8 Soundbar Active Speaker system M/N:B8 bass
 Manufacturer: Edifier
 Operating Condition: TX 5773MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: AC 120V/60Hz
 Comment: Z
 Start of Test: 2019-9-24 /

SCAN TABLE: "LFRE(E) Fin"

Short Description:		SUB_STD_VTERM2 1.70				
Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516E
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516E

**MEASUREMENT RESULT: "T-0924-006_fin"**

2019-9-24

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det. QP	Height cm	Azimuth deg	Polarization
0.010000	9.80	20.1	127.6	117.8	QP	100.0	0.00	HORIZONTAL
0.215000	25.80	20.2	101.0	75.2	QP	100.0	0.00	HORIZONTAL
1.340000	25.30	20.4	64.9	39.6	QP	100.0	0.00	HORIZONTAL
11.620000	9.40	20.8	69.5	60.1	QP	100.0	0.00	HORIZONTAL

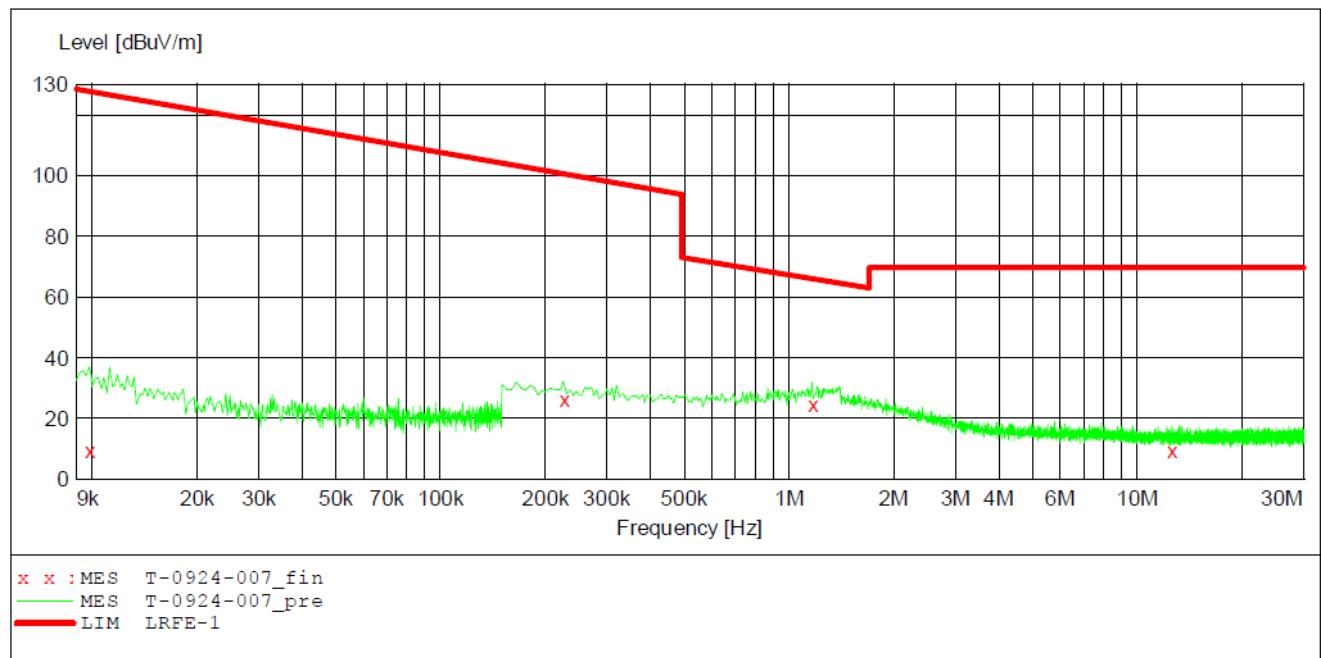
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3m Radiated

EUT: B8 Soundbar Active Speaker system M/N:B8 bass
 Manufacturer: Edifier
 Operating Condition: TX 5820MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: AC 120V/60Hz
 Comment: X
 Start of Test: 2019-9-24 /

SCAN TABLE: "LFRE(E) Fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step - Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz 1516E
 150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz 1516E

**MEASUREMENT RESULT: "T-0924-007_fin"**

2019-9-24

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det. QP	Height cm	Azimuth deg	Polarization
0.009800	9.40	20.1	127.8	118.4	QP	100.0	0.00	HORIZONTAL
0.225000	26.10	20.2	100.6	74.5	QP	100.0	0.00	HORIZONTAL
1.165000	24.50	20.4	66.0	41.5	QP	100.0	0.00	HORIZONTAL
12.530000	9.50	20.9	69.5	60.0	QP	100.0	0.00	HORIZONTAL

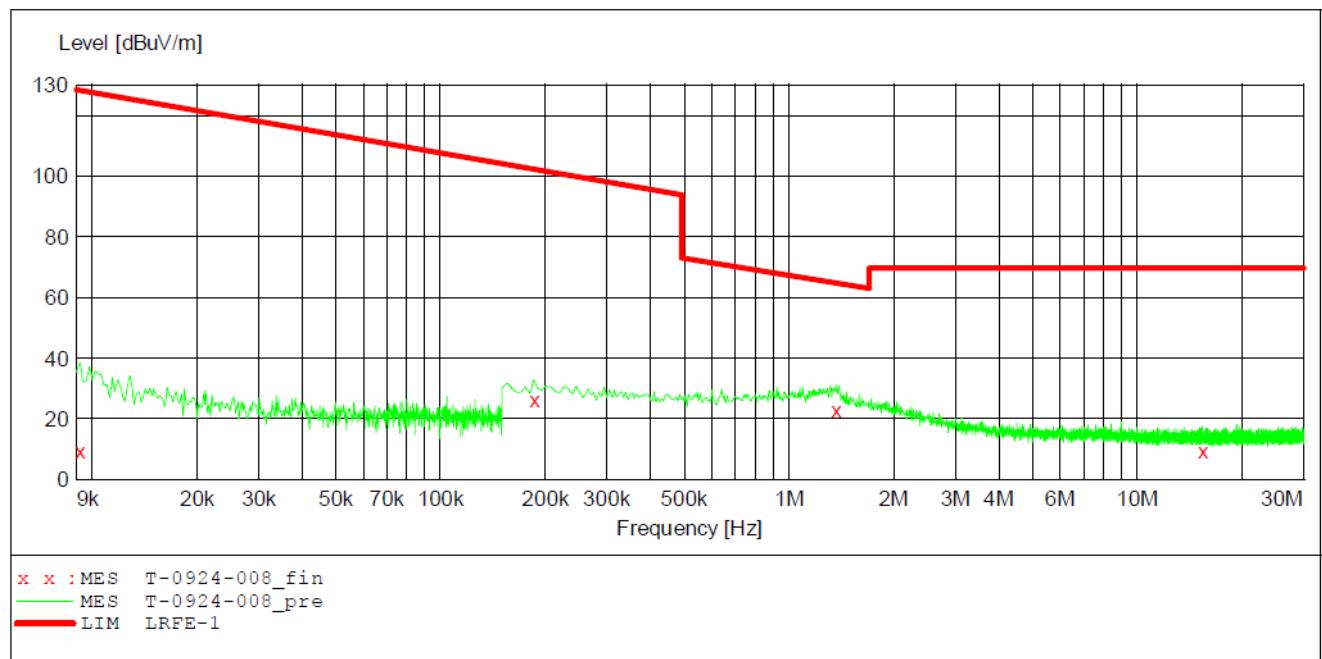
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3m Radiated

EUT: B8 Soundbar Active Speaker system M/N:B8 bass
 Manufacturer: Edifier
 Operating Condition: TX 5820MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: AC 120V/60Hz
 Comment: Y
 Start of Test: 2019-9-24 /

SCAN TABLE: "LFRE (E) Fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 9.0 kHz 150.0 kHz 100.0 Hz QuasiPeak 1.0 s 200 Hz 1516E
 150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz 1516E

**MEASUREMENT RESULT: "T-0924-008_fin"**

2019-9-24

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det. QP	Height cm	Azimuth deg	Polarization
0.009200	9.50	20.1	128.3	118.8	QP	100.0	0.00	HORIZONTAL
0.185000	26.30	20.2	102.3	76.0	QP	100.0	0.00	HORIZONTAL
1.360000	22.80	20.4	64.8	42.0	QP	100.0	0.00	HORIZONTAL
15.320000	9.70	21.1	69.5	59.8	QP	100.0	0.00	HORIZONTAL

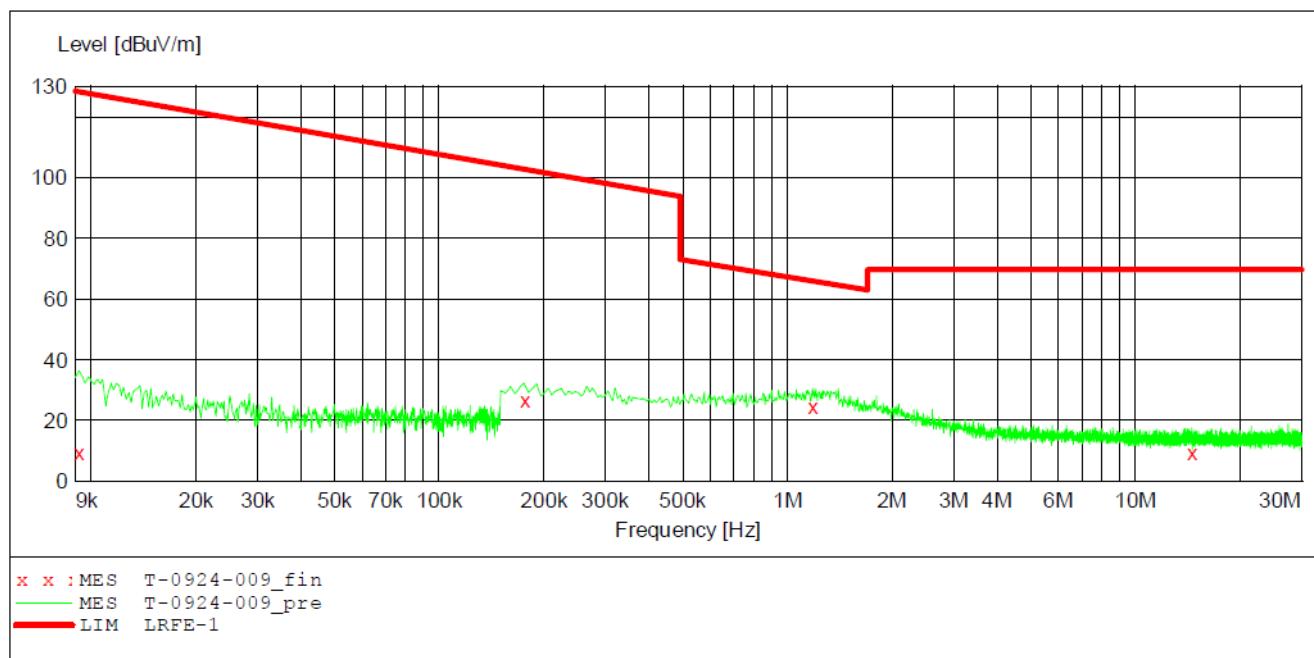
ACCURATE TECHNOLOGY CO., LTD

FCC Class B 3m Radiated

EUT: B8 Soundbar Active Speaker system M/N:B8 bass
 Manufacturer: Edifier
 Operating Condition: TX 5820MHz
 Test Site: 2# Chamber
 Operator: WADE
 Test Specification: AC 120V/60Hz
 Comment: Z
 Start of Test: 2019-9-24 /

SCAN TABLE: "LFRE (E) Fin"

Short Description: _SUB_STD_VTERM2 1.70						
Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516E
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516E

**MEASUREMENT RESULT: "T-0924-009_fin"**

2019-9-24

Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det. QP	Height cm	Azimuth deg	Polarization
0.009200	9.70	20.1	128.3	118.6	QP	100.0	0.00	HORIZONTAL
0.175000	26.50	20.2	102.7	76.2	QP	100.0	0.00	HORIZONTAL
1.180000	24.60	20.4	65.9	41.3	QP	100.0	0.00	HORIZONTAL
14.490000	9.50	21.0	69.5	60.0	QP	100.0	0.00	HORIZONTAL

30MHz-1GHz



ACCURATE TECHNOLOGY CO., LTD.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LGW2019 #3328

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 19/09/23/

Temp.(C)/Hum.(%) 23 C / 48 %

Time:

EUT: B8 Soundbar Active Speaker system

Engineer Signature: WADE

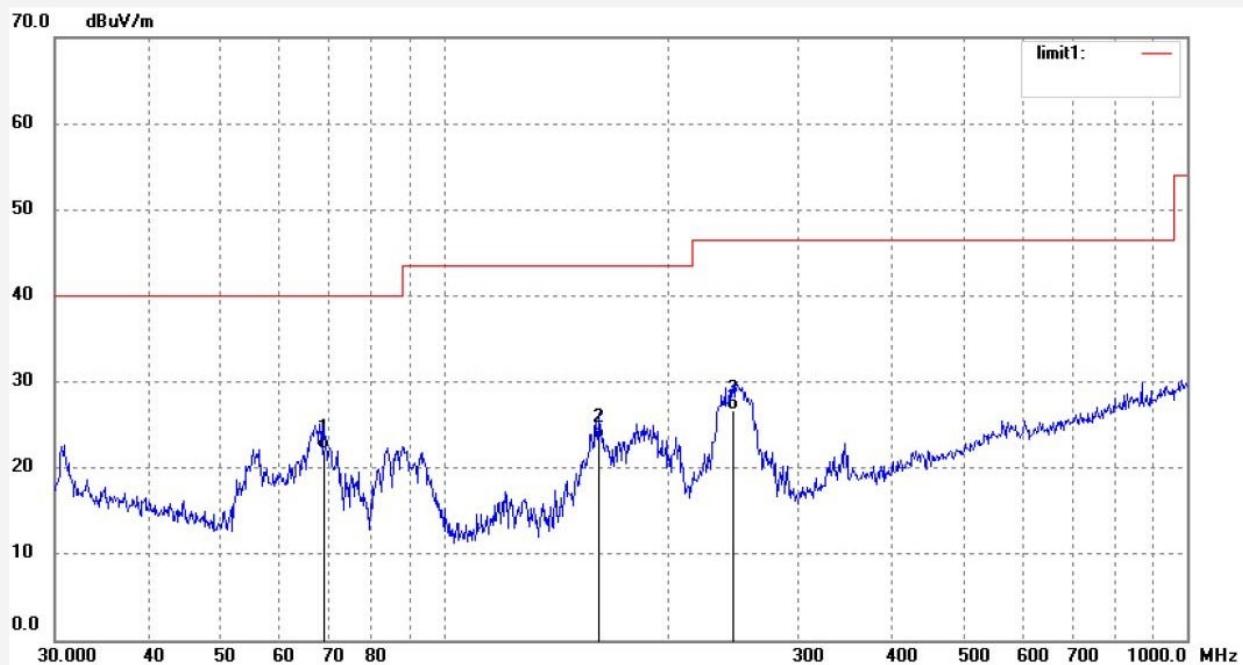
Mode: TX 5731MHz

Distance: 3m

Model: B8 bass

Manufacturer: EDIFIER

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	69.1140	39.15	-17.04	22.11	40.00	-17.89	QP			
2	162.0414	38.94	-15.52	23.42	43.50	-20.08	QP			
3	245.0900	38.53	-11.80	26.73	46.50	-19.77	QP			

Shenzhen Accurate Technology Co., Ltd.

Address: 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China

Tel: +86-755-26503290 Fax: +86-755-26503396 E-mail: webmaster@atc-lab.com Http://www.atc-lab.com

Job No.: LGW2019 #3329

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 19/09/23/

Temp.(C)/Hum.(%) 23 C / 48 %

Time:

EUT: B8 Soundbar Active Speaker system

Engineer Signature: WADE

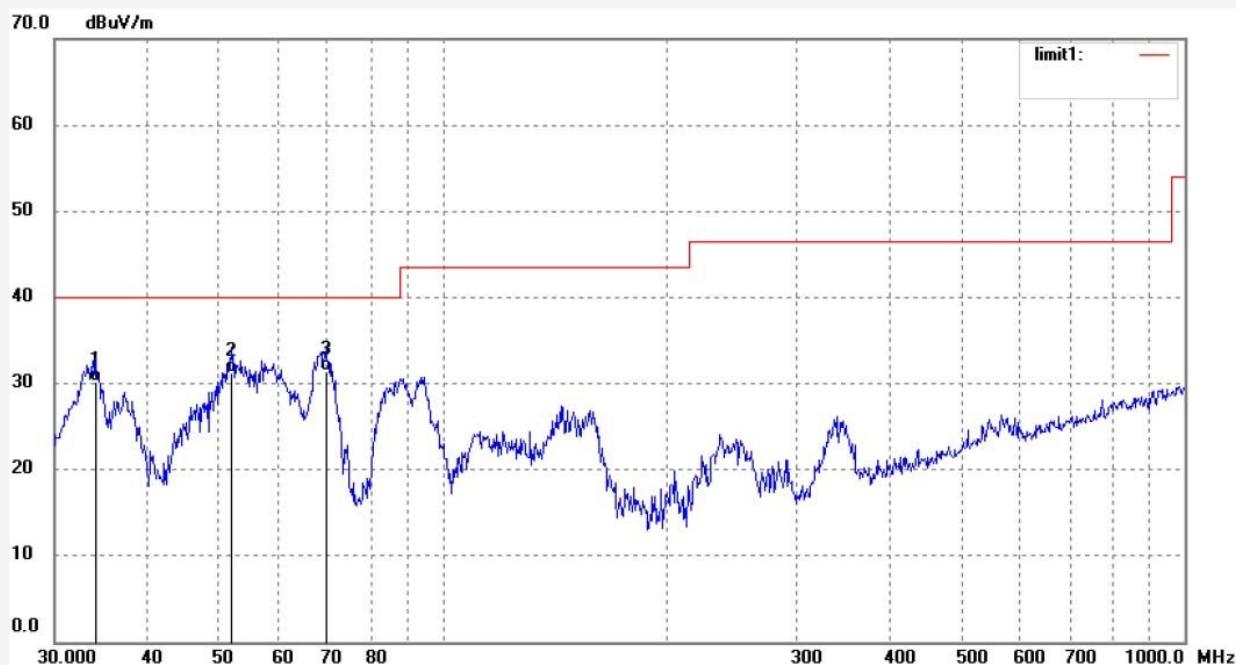
Mode: TX 5731MHz

Distance: 3m

Model: B8 bass

Manufacturer: EDIFIER

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.0363	40.27	-10.13	30.14	40.00	-9.86	QP			
2	51.8430	44.99	-13.75	31.24	40.00	-8.76	QP			
3	69.6004	48.42	-17.08	31.34	40.00	-8.66	QP			

Job No.: LGW2019 #3331

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 19/09/23/

Temp.(C)/Hum.(%) 23 C / 48 %

Time:

EUT: B8 Soundbar Active Speaker system

Engineer Signature: WADE

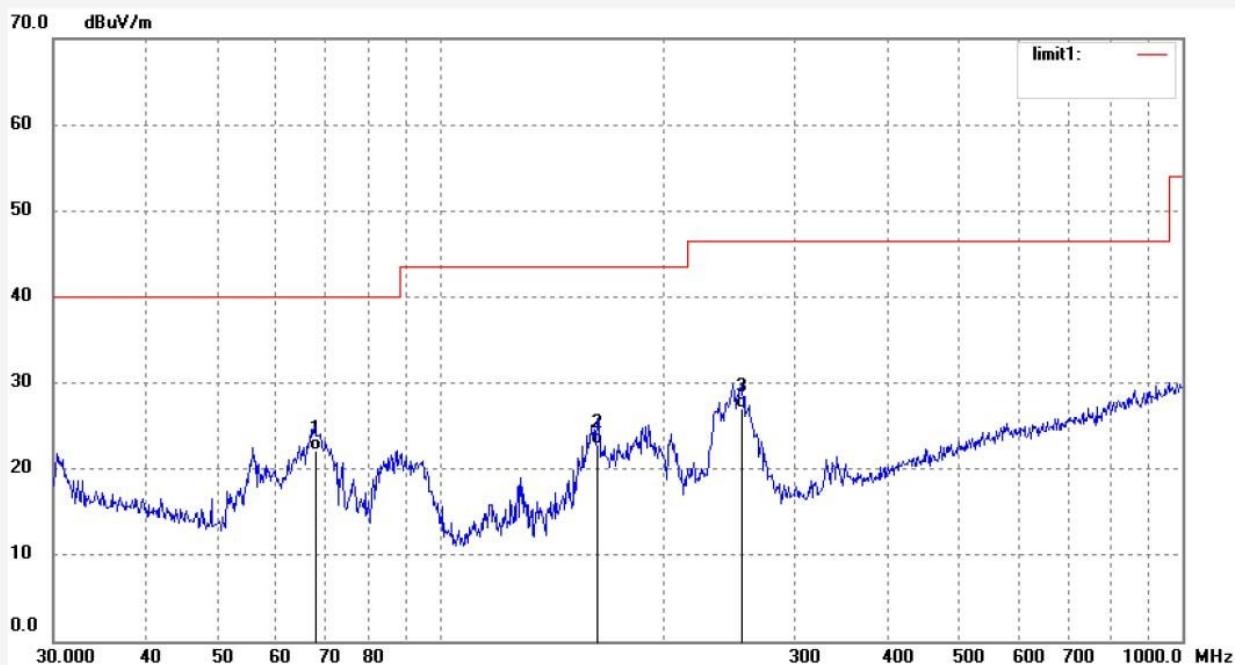
Mode: TX 5773MHz

Distance: 3m

Model: B8 bass

Manufacturer: EDIFIER

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	67.6751	39.07	-16.93	22.14	40.00	-17.86	QP			
2	162.6106	38.40	-15.50	22.90	43.50	-20.60	QP			
3	254.7283	38.74	-11.76	26.98	46.50	-19.52	QP			

Job No.: LGW2019 #3330

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 19/09/23/

Temp.(C)/Hum.(%) 23 C / 48 %

Time:

EUT: B8 Soundbar Active Speaker system

Engineer Signature: WADE

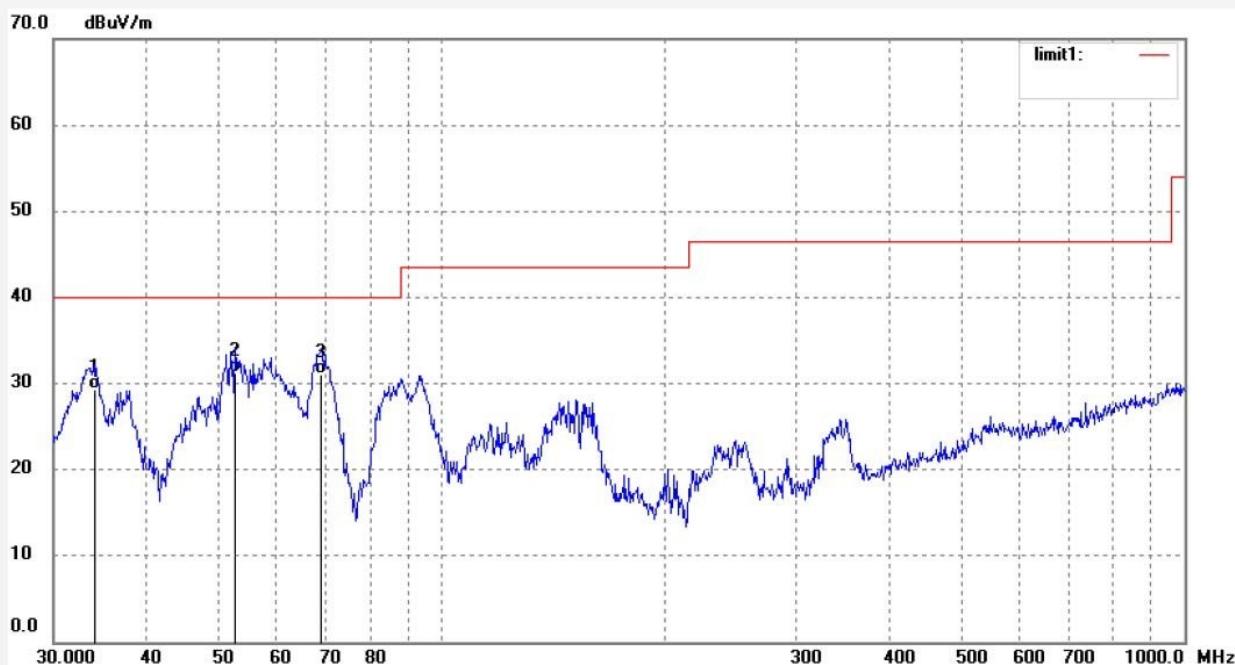
Mode: TX 5773MHz

Distance: 3m

Model: B8 bass

Manufacturer: EDIFIER

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.0363	39.44	-10.13	29.31	40.00	-10.69	QP			
2	52.5752	44.99	-13.79	31.20	40.00	-8.80	QP			
3	68.8721	48.10	-17.02	31.08	40.00	-8.92	QP			

Job No.: LGW2019 #3332

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 19/09/23/

Temp.(C)/Hum.(%) 23 C / 48 %

Time:

EUT: B8 Soundbar Active Speaker system

Engineer Signature: WADE

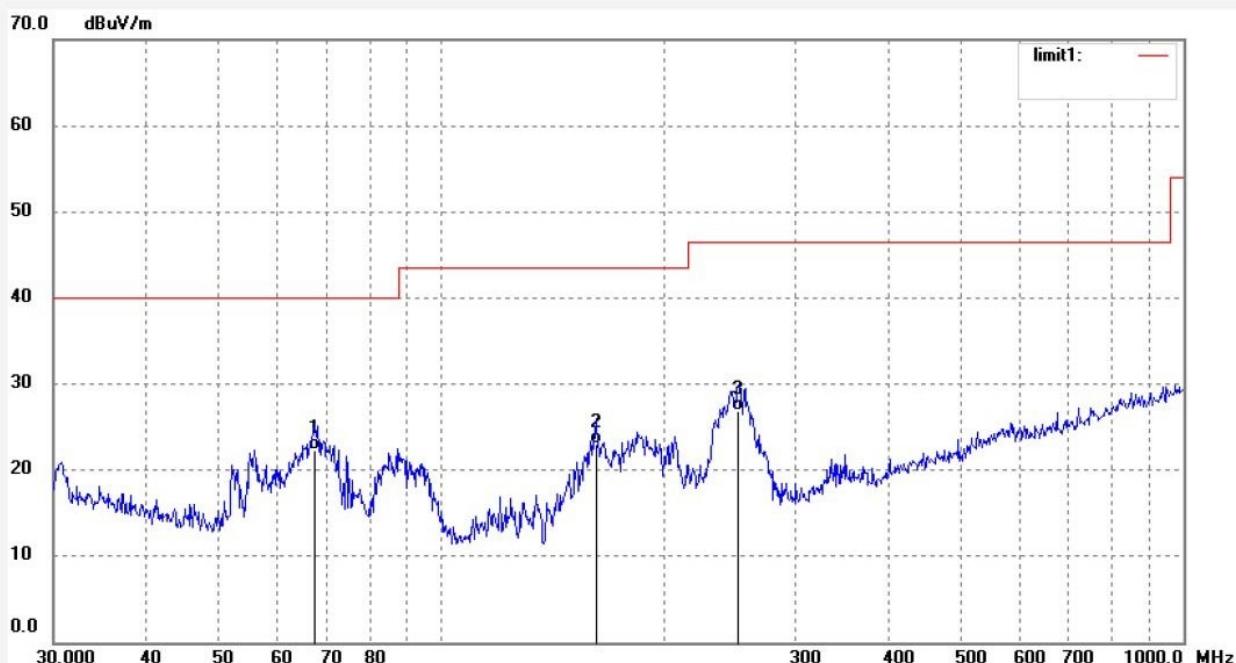
Mode: TX 5820MHz

Distance: 3m

Model: B8 bass

Manufacturer: EDIFIER

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	67.4381	39.31	-16.91	22.40	40.00	-17.60	QP			
2	161.4740	38.46	-15.52	22.94	43.50	-20.56	QP			
3	251.1802	38.65	-11.77	26.88	46.50	-19.62	QP			

Job No.: LGW2019 #3333

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 19/09/23/

Temp.(C)/Hum.(%) 23 C / 48 %

Time:

EUT: B8 Soundbar Active Speaker system

Engineer Signature: WADE

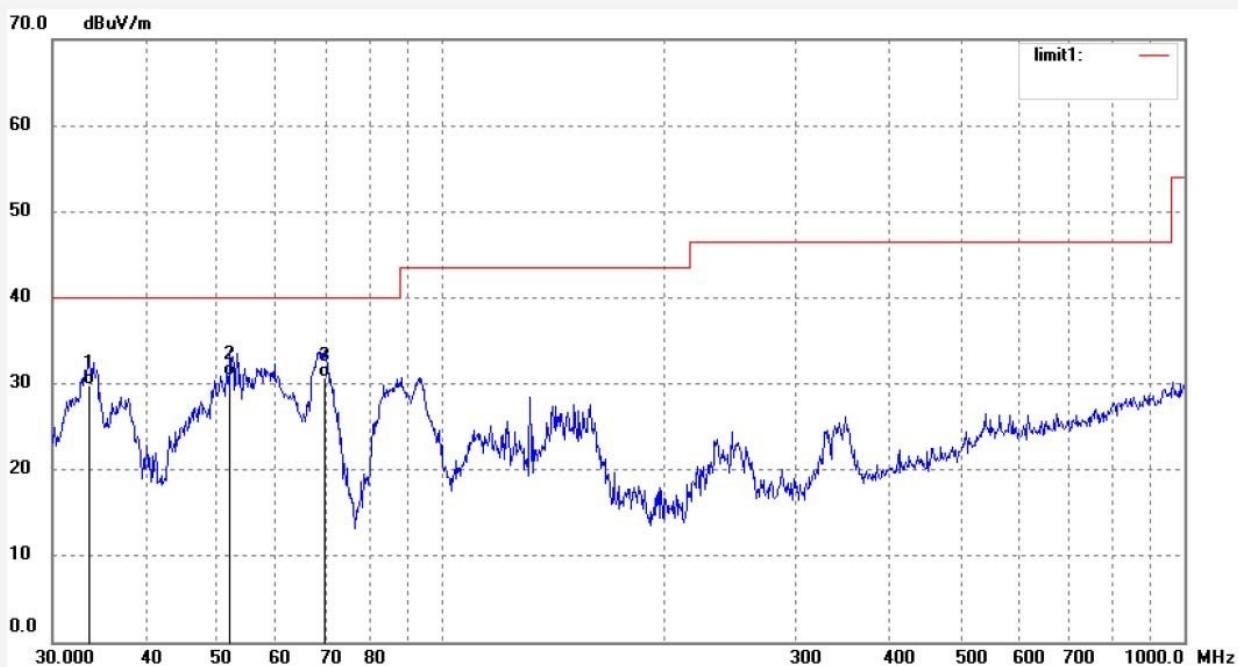
Mode: TX 5820MHz

Distance: 3m

Model: B8 bass

Manufacturer: EDIFIER

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	33.5623	39.78	-9.99	29.79	40.00	-10.21	QP			
2	52.0251	44.57	-13.75	30.82	40.00	-9.18	QP			
3	69.6004	47.86	-17.08	30.78	40.00	-9.22	QP			