

1GHz-18GHz



## ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.ChinaSite: 2# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: LGW2019 #3312

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

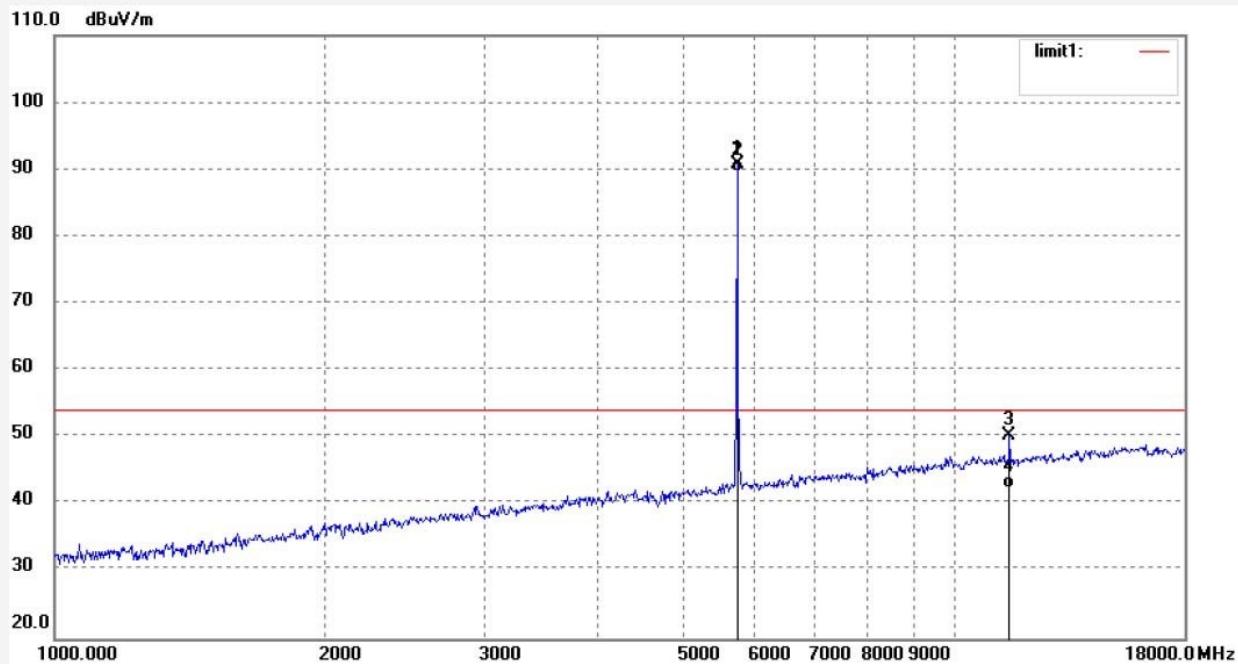
Mode: TX 5731MHz

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	5731.000	80.67	10.18	90.85	114.00	-23.15	peak			
2	5731.000	79.37	10.18	89.55	94.00	-4.45	AVG			
3	11462.235	34.77	15.55	50.32	74.00	-23.68	peak			
4	11462.235	26.80	15.55	42.35	54.00	-11.65	AVG			

**Shenzhen Accurate Technology Co., Ltd.**

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Job No.: LGW2019 #3313

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

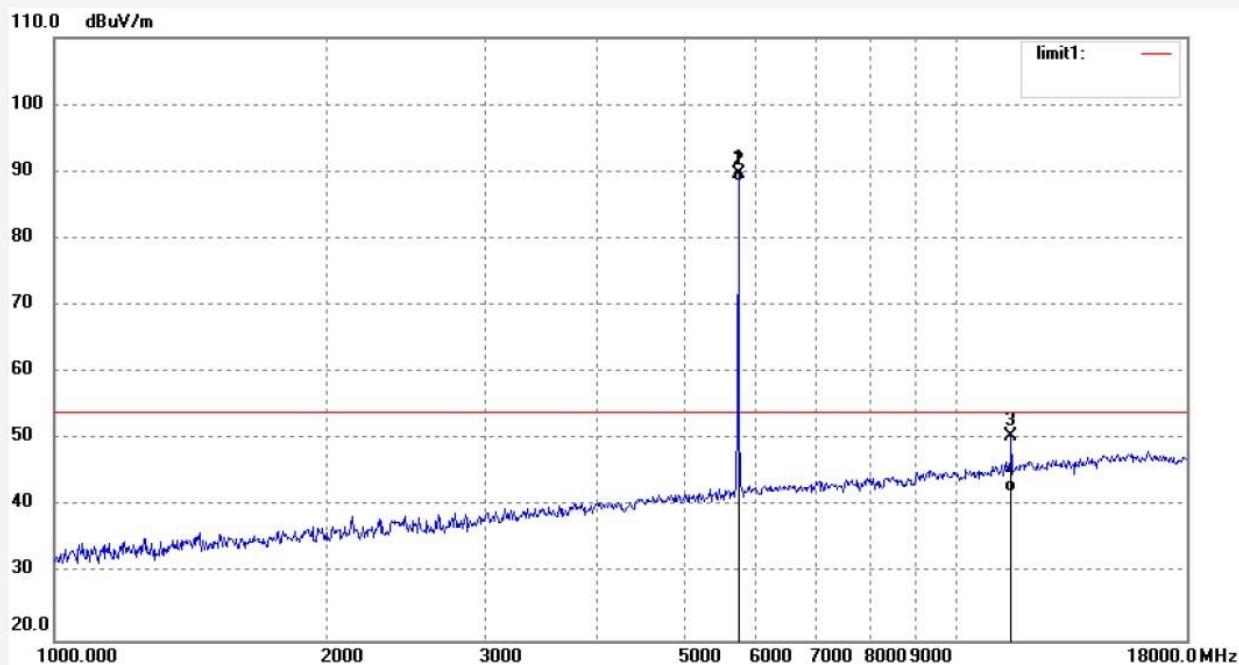
Mode: TX 5731MHz

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	5731.000	79.55	10.18	89.73	114.00	-24.27	peak			
2	5731.000	78.25	10.18	88.43	94.00	-5.57	AVG			
3	11462.228	34.87	15.55	50.42	74.00	-23.58	peak			
4	11462.228	26.69	15.55	42.24	54.00	-11.76	AVG			

Job No.: LGW2019 #3316

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

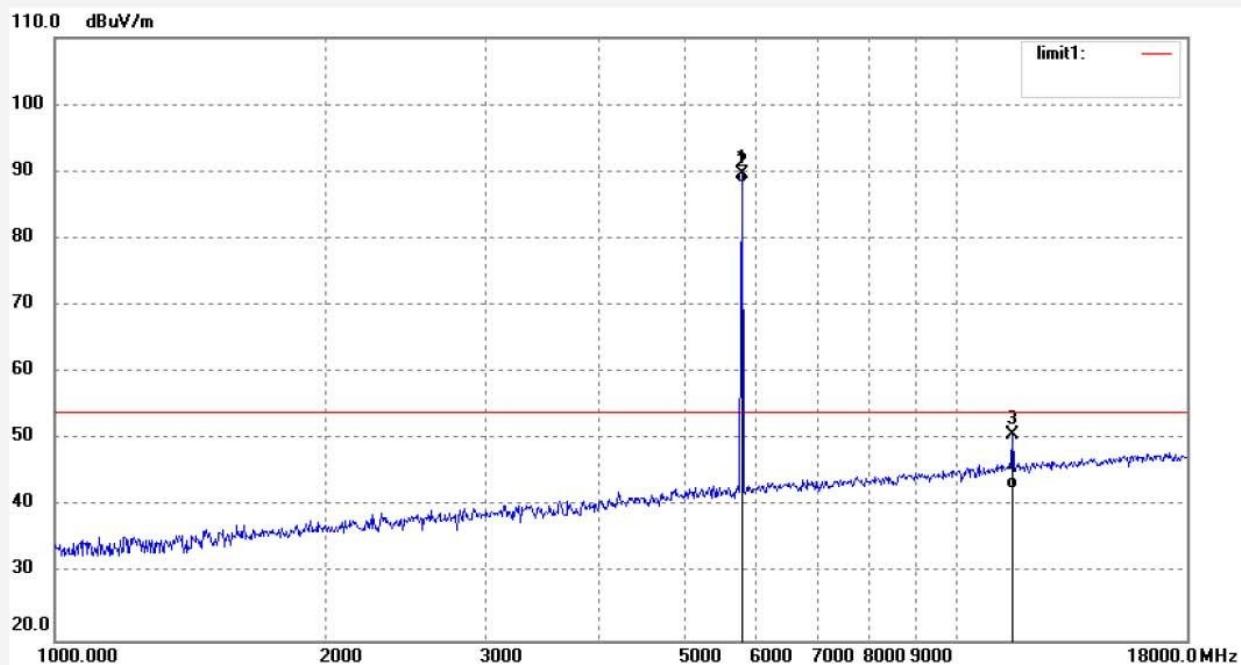
Mode: TX 5773MHz

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	5773.000	79.28	10.44	89.72	114.00	-24.28	peak			
2	5773.000	77.88	10.44	88.32	94.00	-5.68	AVG			
3	11546.302	34.96	15.70	50.66	74.00	-23.34	peak			
4	11546.302	26.87	15.70	42.57	54.00	-11.43	AVG			

Job No.: LGW2019 #3317

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

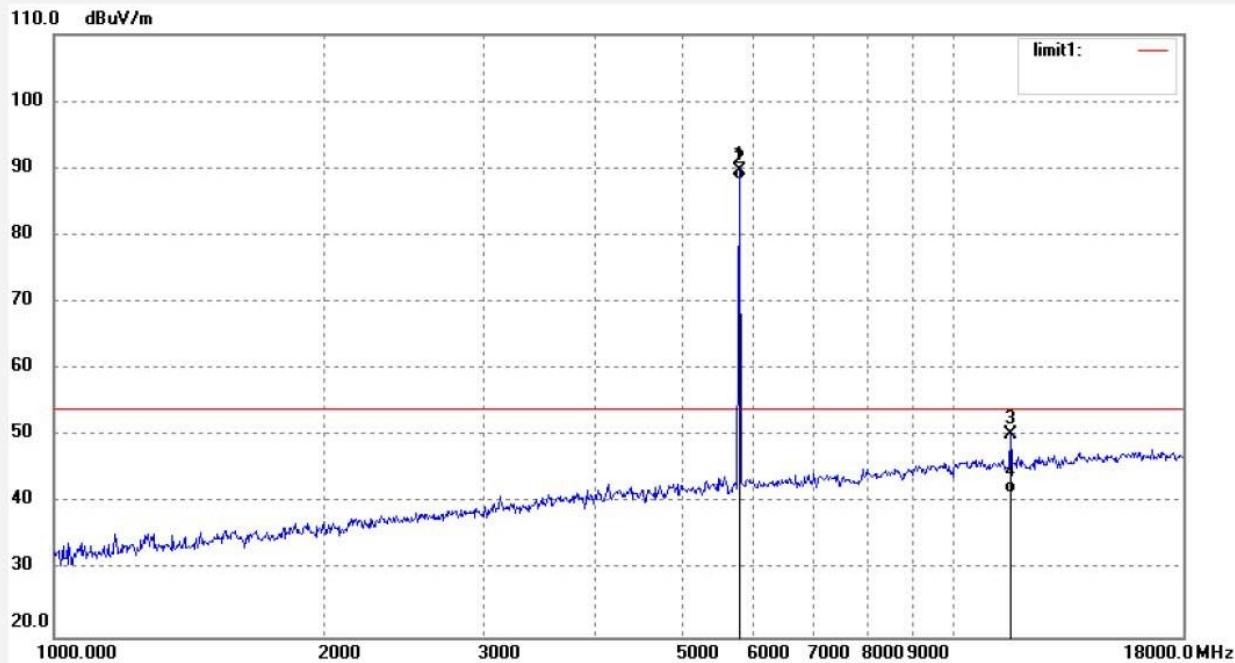
Mode: TX 5773MHz

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	5773.000	79.14	10.44	89.58	114.00	-24.42	peak			
2	5773.000	77.74	10.44	88.18	94.00	-5.82	AVG			
3	11546.267	34.65	15.70	50.35	74.00	-23.65	peak			
4	11546.267	25.87	15.70	41.57	54.00	-12.43	AVG			

Job No.: LGW2019 #3319

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

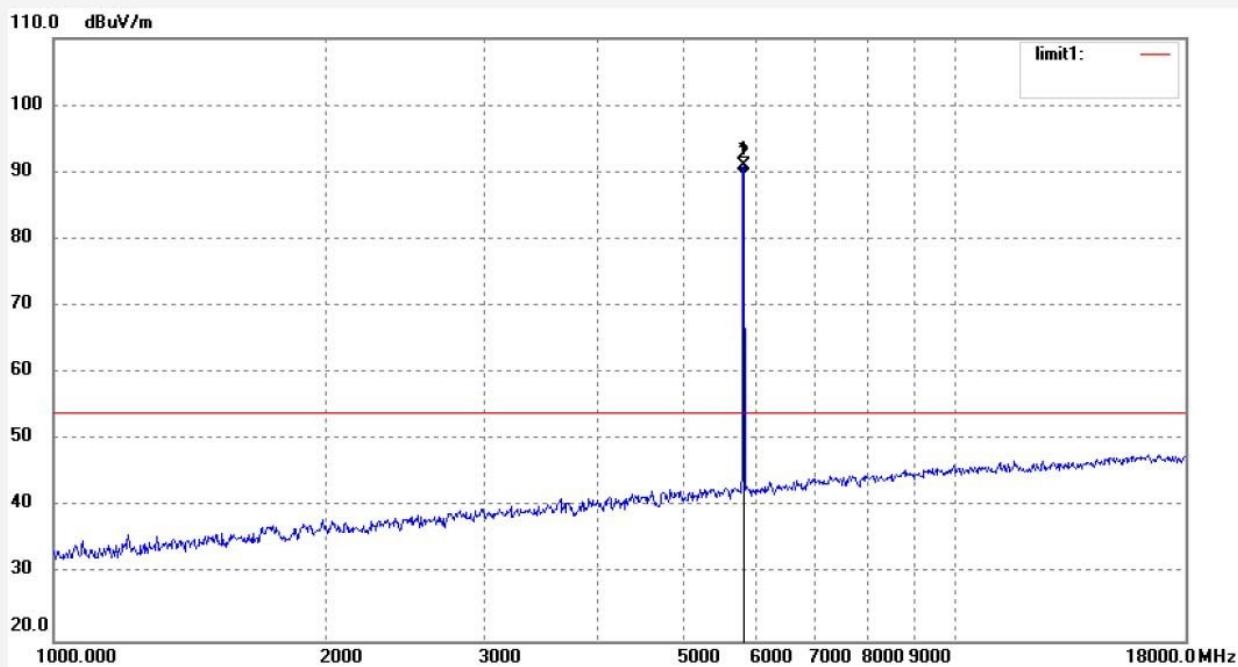
Mode: TX 5820MHz

Distance: 3m

Model: B8 bass

Manufacturer: EDIFIER

Note:



No.	Freq. (MHz)	Reading (dB <sub>UV</sub> /m)	Factor (dB)	Result (dB <sub>UV</sub> /m)	Limit (dB <sub>UV</sub> /m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5820.000	80.44	10.66	91.10	114.00	-22.90	peak			
2	5820.000	79.04	10.66	89.70	94.00	-4.30	AVG			

Job No.: LGW2019 #3318

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

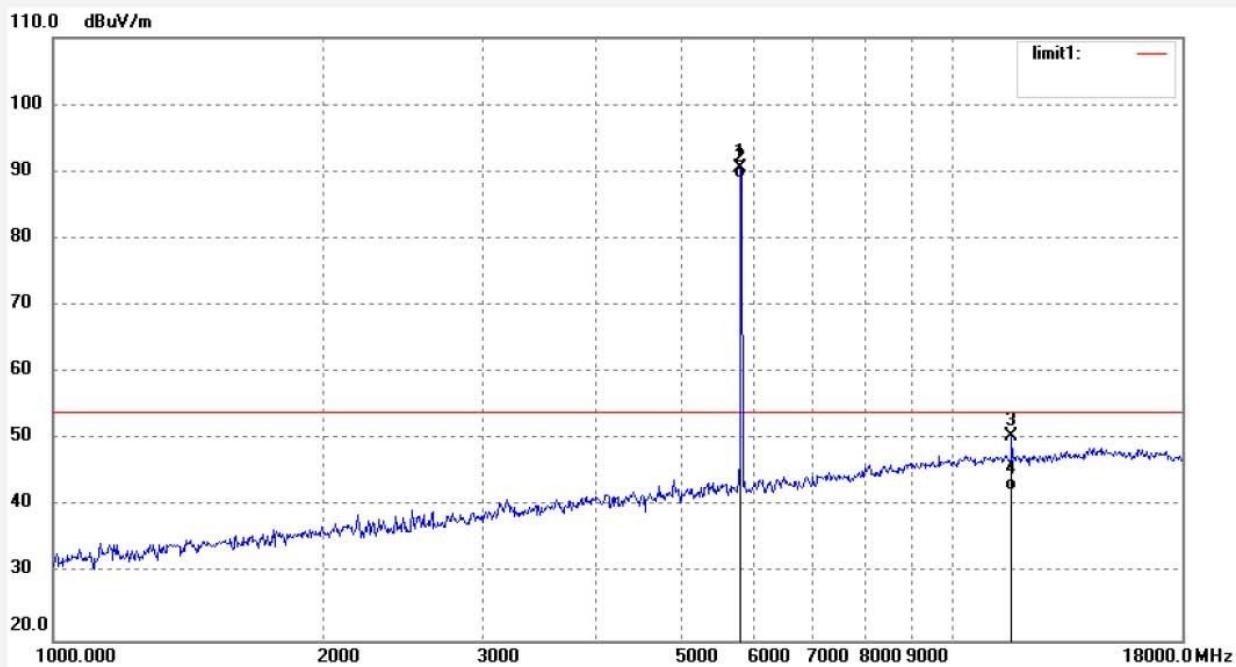
Mode: TX 5820MHz

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	5820.000	79.81	10.66	90.47	114.00	-23.53	peak			
2	5820.000	78.41	10.66	89.07	94.00	-4.93	AVG			
3	11640.255	34.38	16.16	50.54	74.00	-23.46	peak			
4	11640.255	26.19	16.16	42.35	54.00	-11.65	AVG			

18GHz-25GHz



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Site: 2# Chamber  
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Job No.: LGW2019 #3323

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

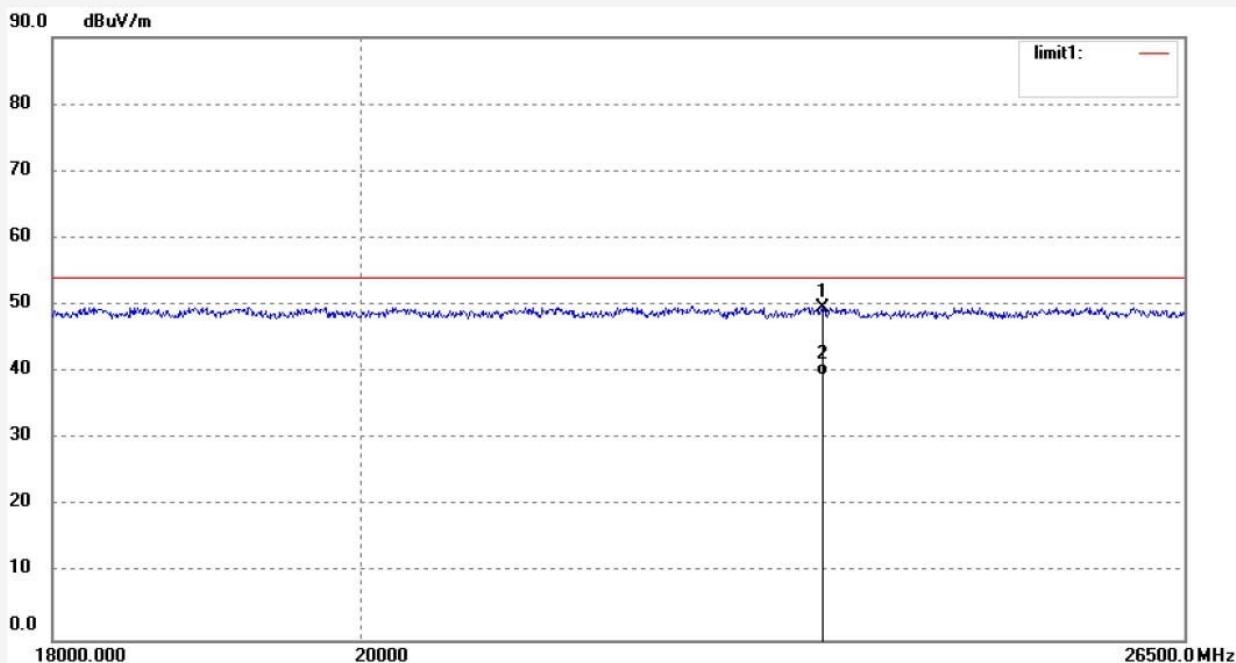
Mode: TX 5731MHz

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	23415.013	17.13	32.49	49.62	74.00	-24.38	peak			
2	23415.013	6.96	32.49	39.45	54.00	-14.55	AVG			

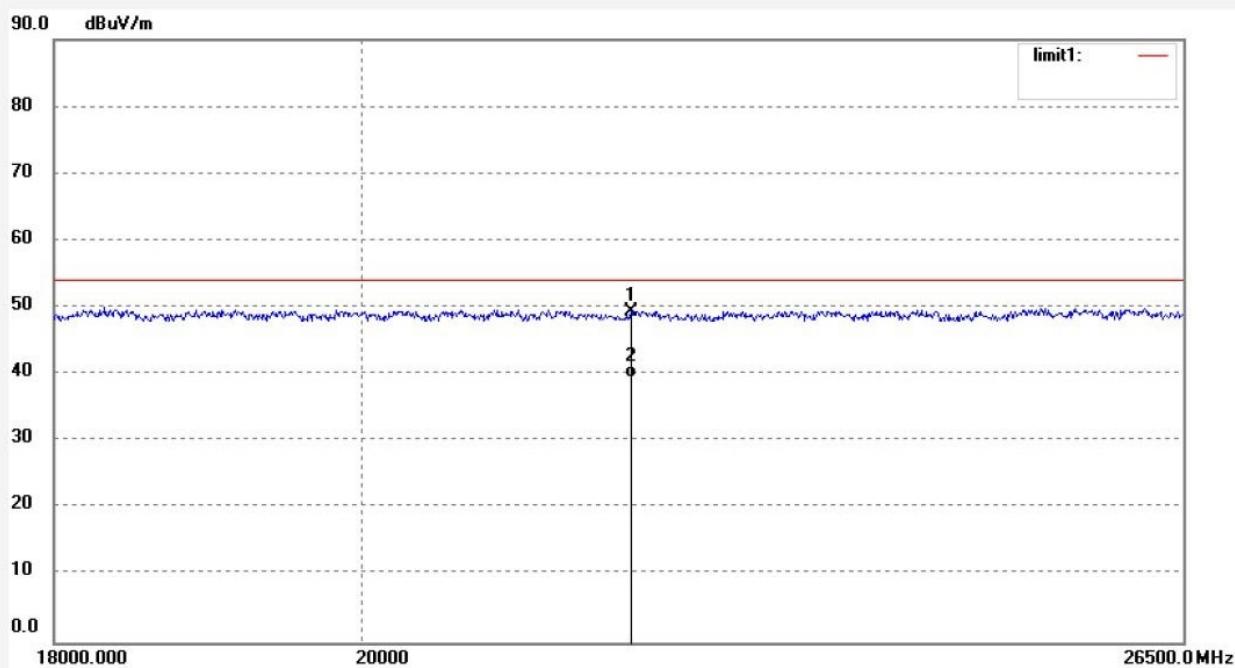
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Job No.: LGW2019 #3322	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 19/09/23/
Temp.( C)/Hum.(%) 23 C / 48 %	Time:
EUT: B8 Soundbar Active Speaker system	Engineer Signature: WADE
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	21933.447	17.41	32.02	49.43	74.00	-24.57	peak			
2	21933.447	7.53	32.02	39.55	54.00	-14.45	AVG			

Job No.: LGW2019 #3324

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

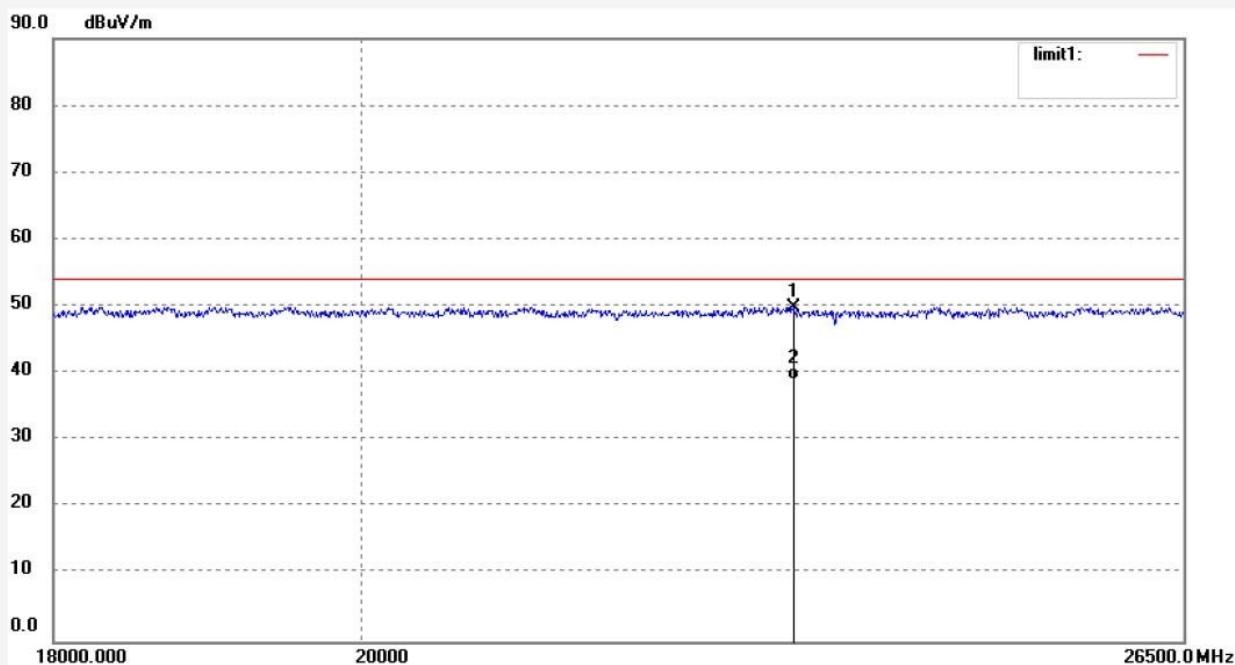
Mode: TX 5773MHz

Distance: 3m

Model: B8 bass

Manufacturer: EDIFIER

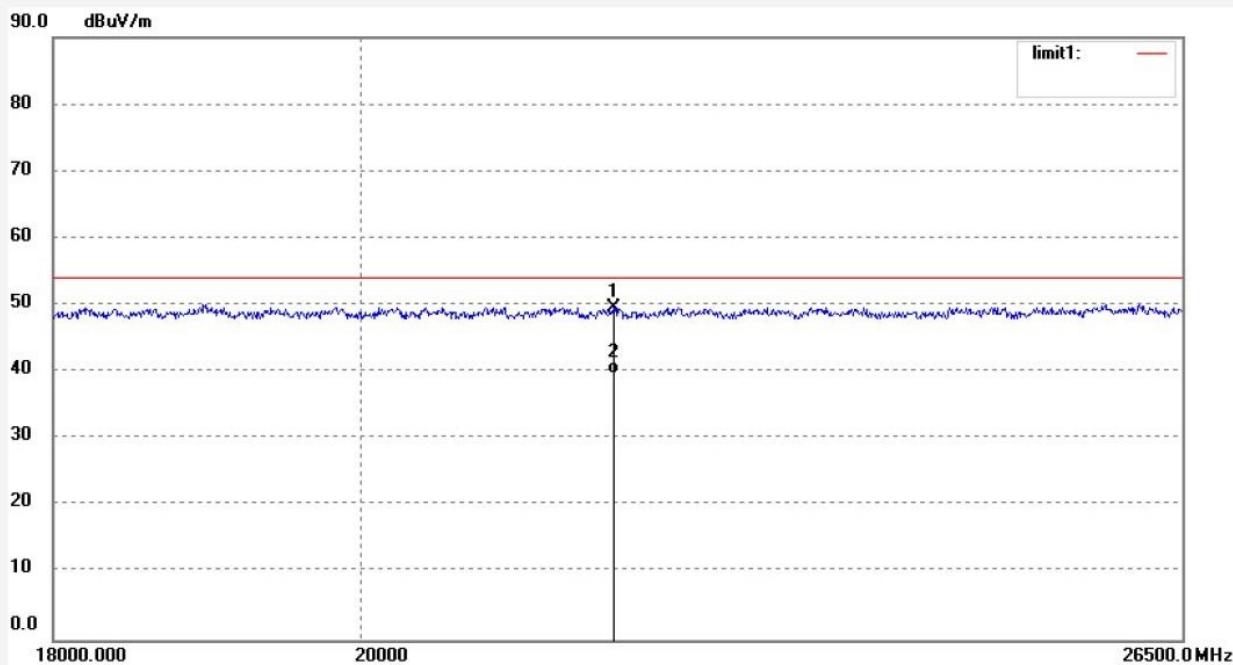
Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	23189.696	17.59	32.33	49.92	74.00	-24.08	peak			
2	23189.696	6.79	32.33	39.12	54.00	-14.88	AVG			

Job No.: LGW2019 #3325	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	21806.567	17.46	32.06	49.52	74.00	-24.48	peak			
2	21806.567	7.72	32.06	39.78	54.00	-14.22	AVG			

Job No.: LGW2019 #3327

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

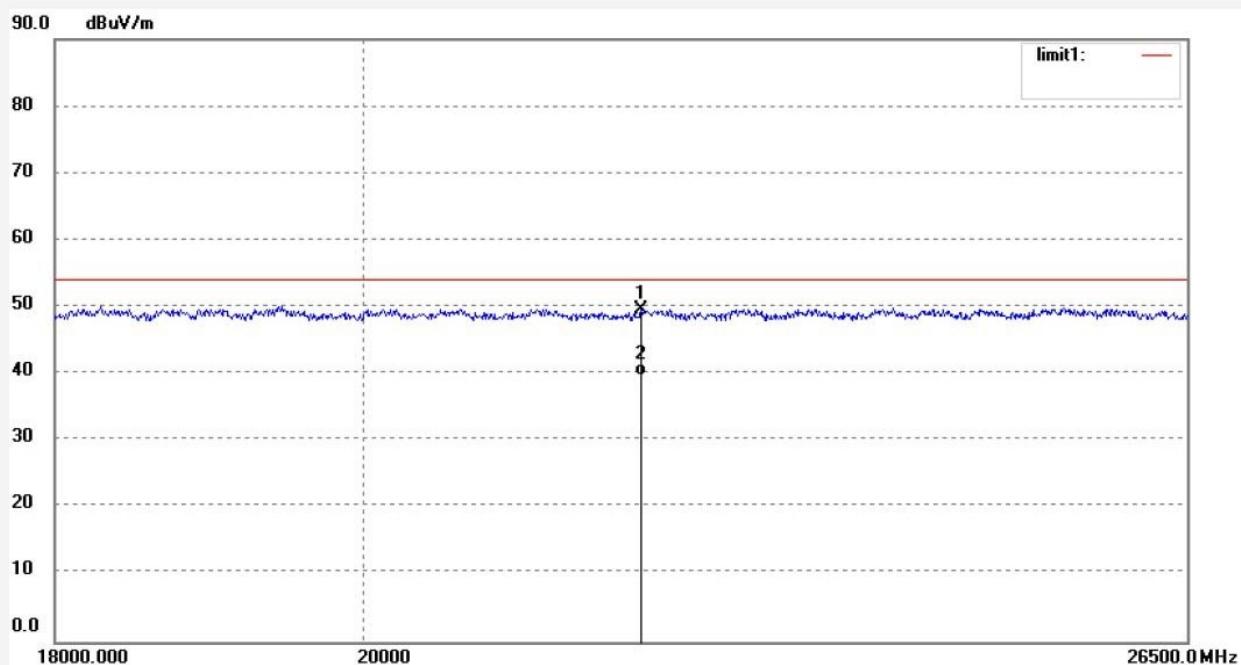
Mode: TX 5820MHz

Distance: 3m

Model: B8 bass

Manufacturer: EDIFIER

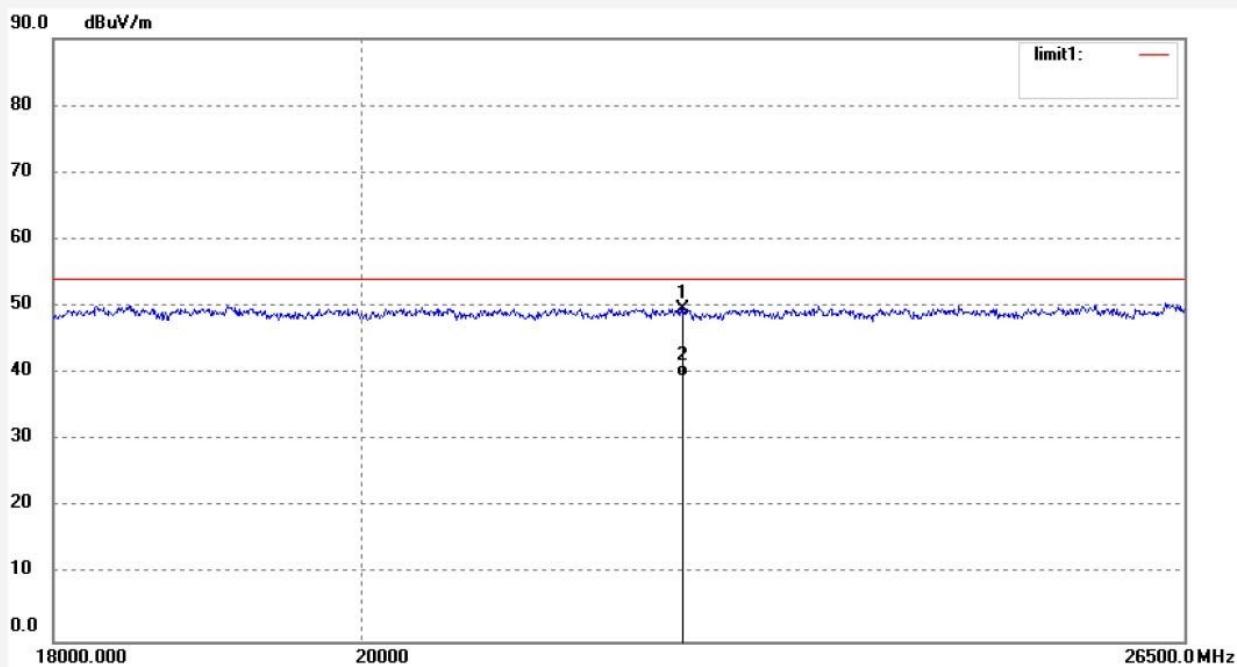
Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	21992.911	17.41	32.17	49.58	74.00	-24.42	peak			
2	21992.911	7.59	32.17	39.76	54.00	-14.24	AVG			

Job No.: LGW2019 #3326      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

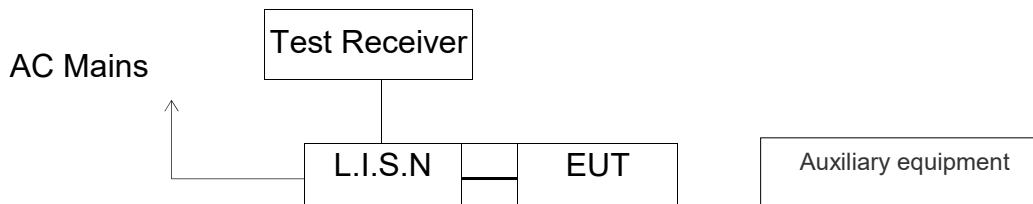
Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	22327.170	17.56	32.04	49.60	74.00	-24.40	peak			
2	22327.170	7.41	32.04	39.45	54.00	-14.55	AVG			

## 7. AC POWER LINE CONDUCTED EMISSION FOR FCC PART 15 SECTION 15.207(A)

### 7.1. Block Diagram of Test Setup



(EUT: B8 Soundbar Active Speaker system)

### 7.2. Power Line Conducted Emission Measurement Limits

Frequency (MHz)	Limit dB( $\mu$ V)	
	Quasi-peak Level	Average Level
0.15 - 0.50	66.0 – 56.0 *	56.0 – 46.0 *
0.50 - 5.00	56.0	46.0
5.00 - 30.00	60.0	50.0

NOTE1: The lower limit shall apply at the transition frequencies.

NOTE2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

### 7.3. Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

## 7.4. Operating Condition of EUT

7.4.1. Setup the EUT and simulator as shown as Section 9.1.

9.4.2. Turn on the power of all equipment.

9.4.3. Let the EUT work in test mode and measure it.

## 7.5. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2014 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

## 7.6. DATA SAMPLE

Frequency (MHz)	Quasi Peak Level (dB $\mu$ V)	Average Level (dB $\mu$ V)	Transducer value (dB)	QuasiPeak Result (dB $\mu$ V)	Average Result (dB $\mu$ V)	Quasi Peak Limit (dB $\mu$ V)	Average Limit (dB $\mu$ V)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)
X.XX	29.4	18.3	11.1	40.5	29.4	56.0	56.0	15.5	16.6	Pass

Transducer value = Insertion loss of LISN + Cable Loss

Result = Quasi-peak Level/Average Level + Transducer value

Limit = Limit stated in standard

Calculation Formula:

Margin = Limit – Reading level value – Transducer value

## 7.7. Power Line Conducted Emission Measurement Results

**PASS.**

The frequency range from 150kHz to 30MHz is checked.

**Test mode : 5.8G OPERATION(AC 120V/60Hz)****MEASUREMENT RESULT: "T-0621-V36\_fin"**

6/21/2019

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.150000	43.00	10.5	66	23.0	QP	N	GND
3.070000	25.10	10.8	56	30.9	QP	N	GND
26.845000	17.90	11.0	60	42.1	QP	N	GND

**MEASUREMENT RESULT: "T-0621-V36\_fin2"**

6/21/2019

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.765000	32.40	10.6	46	13.6	AV	N	GND
3.070000	23.60	10.8	46	22.4	AV	N	GND
29.155000	20.50	11.0	50	29.5	AV	N	GND

**MEASUREMENT RESULT: "T-0621-V35\_fin"**

6/21/2019

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.155000	42.30	10.5	66	23.4	QP	L1	GND
3.840000	24.70	10.8	56	31.3	QP	L1	GND
27.010000	15.70	11.0	60	44.3	QP	L1	GND

**MEASUREMENT RESULT: "T-0621-V35\_fin2"**

6/21/2019

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.765000	33.30	10.6	46	12.7	AV	L1	GND
3.070000	24.50	10.8	46	21.5	AV	L1	GND
29.155000	17.60	11.0	50	32.4	AV	L1	GND

Emissions attenuated more than 20 dB below the permissible value are not reported.

The spectral diagrams are attached as below.

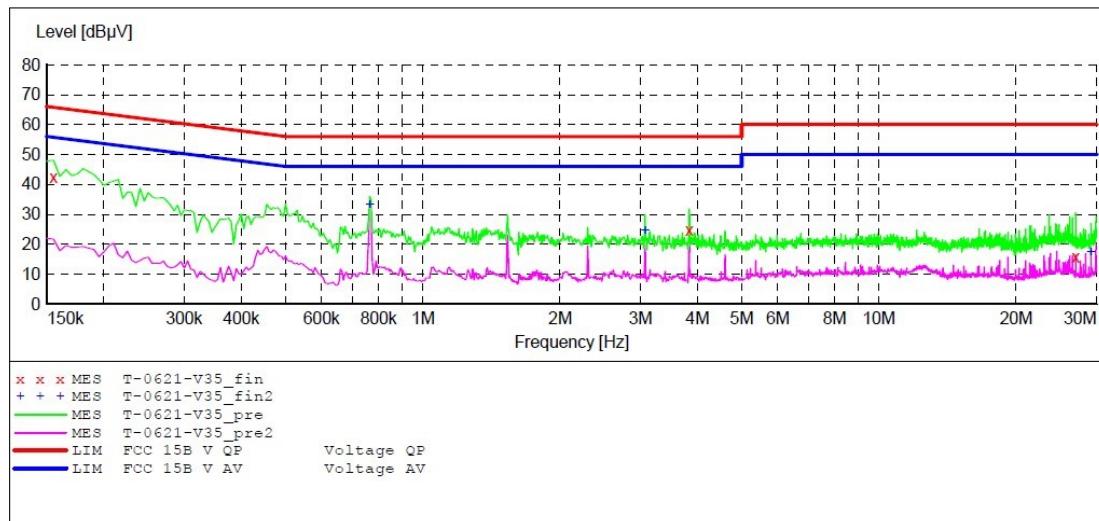
ACCURATE TECHNOLOGY CO., LTD

## CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: B8 Soundbar Active Speaker system M/N:B8 bass  
 Manufacturer: Edifier  
 Operating Condition: 5.8G OPERATION  
 Test Site: 1#Shielding Room  
 Operator: WADE  
 Test Specification: L 120V/60Hz  
 Comment: Mains port  
 Start of Test: 6/21/2019 /

**SCAN TABLE: "V 9K-30MHz 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 NSLK8126 2008  
 Average  
 150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008  
 Average

**MEASUREMENT RESULT: "T-0621-V35\_fin"**

6/21/2019

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.155000	42.30	10.5	66	23.4	QP	L1	GND
3.840000	24.70	10.8	56	31.3	QP	L1	GND
27.010000	15.70	11.0	60	44.3	QP	L1	GND

**MEASUREMENT RESULT: "T-0621-V35\_fin2"**

6/21/2019

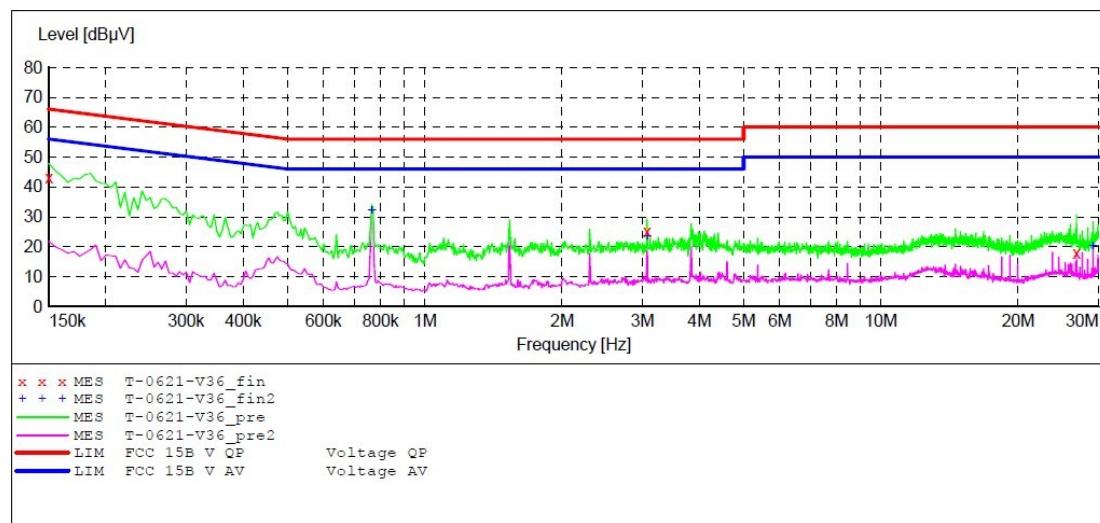
Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.765000	33.30	10.6	46	12.7	AV	L1	GND
3.070000	24.50	10.8	46	21.5	AV	L1	GND
29.155000	17.60	11.0	50	32.4	AV	L1	GND

## CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: B8 Soundbar Active Speaker system M/N:B8 bass  
 Manufacturer: Edifier  
 Operating Condition: 5.8G OPERATION  
 Test Site: 1#Shielding Room  
 Operator: WADE  
 Test Specification: N 120V/60Hz  
 Comment: Mains port  
 Start of Test: 6/21/2019 /

**SCAN TABLE: "V 9K-30MHz 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 NSLK8126 2008  
 Average  
 150.0 kHz 30.0 MHz 5.0 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008  
 Average

**MEASUREMENT RESULT: "T-0621-V36\_fin"**

6/21/2019	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB $\mu$ V	dB	dB $\mu$ V	dB			
	0.150000	43.00	10.5	66	23.0	QP	N	GND
	3.070000	25.10	10.8	56	30.9	QP	N	GND
	26.845000	17.90	11.0	60	42.1	QP	N	GND

**MEASUREMENT RESULT: "T-0621-V36\_fin2"**

6/21/2019	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB $\mu$ V	dB	dB $\mu$ V	dB			
	0.765000	32.40	10.6	46	13.6	AV	N	GND
	3.070000	23.60	10.8	46	22.4	AV	N	GND
	29.155000	20.50	11.0	50	29.5	AV	N	GND