

1GHz-18GHz



ACCURATE TECHNOLOGY CO., LTD.

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Site: 2# Chamber
Tel:+86-0755-26503290
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Job No.: LGW2019 #3312

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: B8 Soundbar Active Speaker system

Mode: TX 5731MHz

Model: B8 bass

Manufacturer: EDIFIER

Polarization: Horizontal

Power Source: AC 120V/60Hz

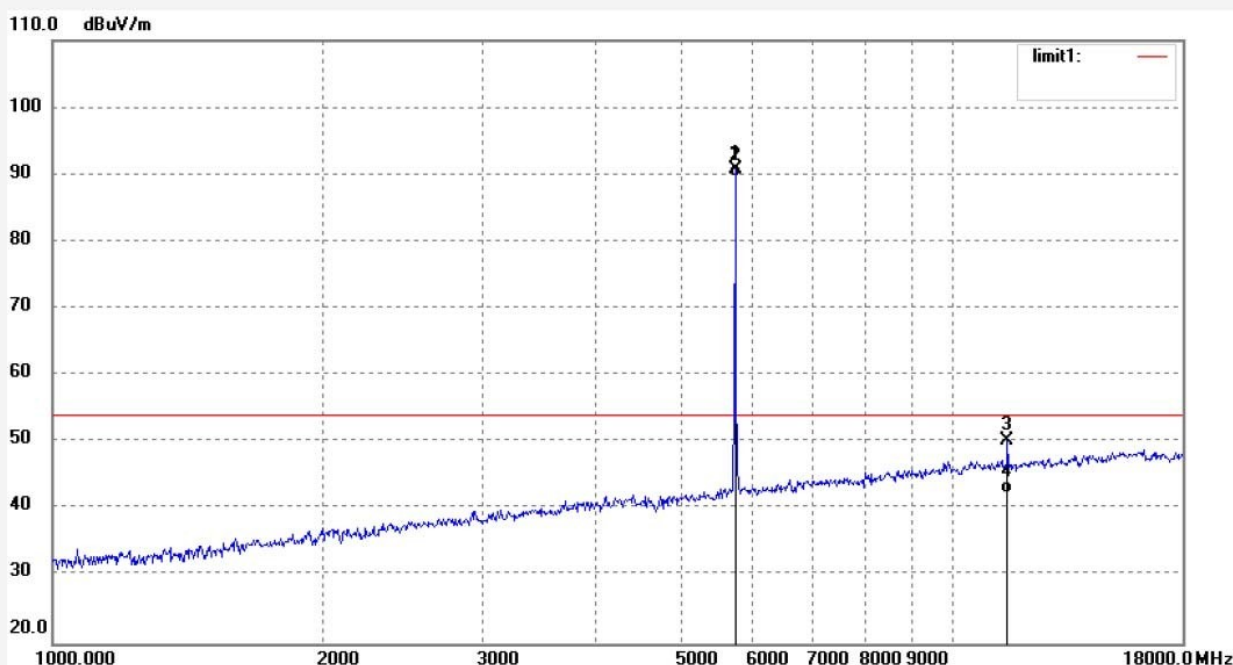
Date: 19/09/23/

Time:

Engineer Signature: WADE

Distance: 3m

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			

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Job No.: LGW2019 #3313

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: B8 Soundbar Active Speaker system

Mode: TX 5731MHz

Model: B8 bass

Manufacturer: EDIFIER

Polarization: Vertical

Power Source: AC 120V/60Hz

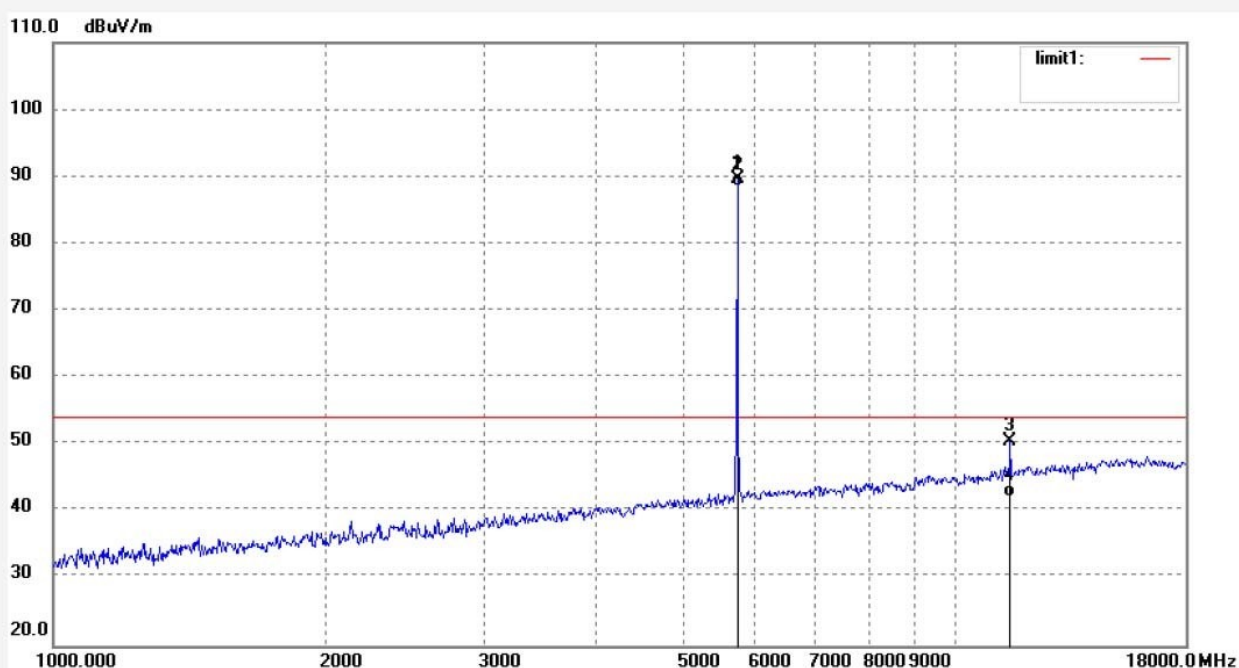
Date: 19/09/23/

Time:

Engineer Signature: WADE

Distance: 3m

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

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: B8 Soundbar Active Speaker system

Mode: TX 5773MHz

Model: B8 bass

Manufacturer: EDIFIER

Polarization: Horizontal

Power Source: AC 120V/60Hz

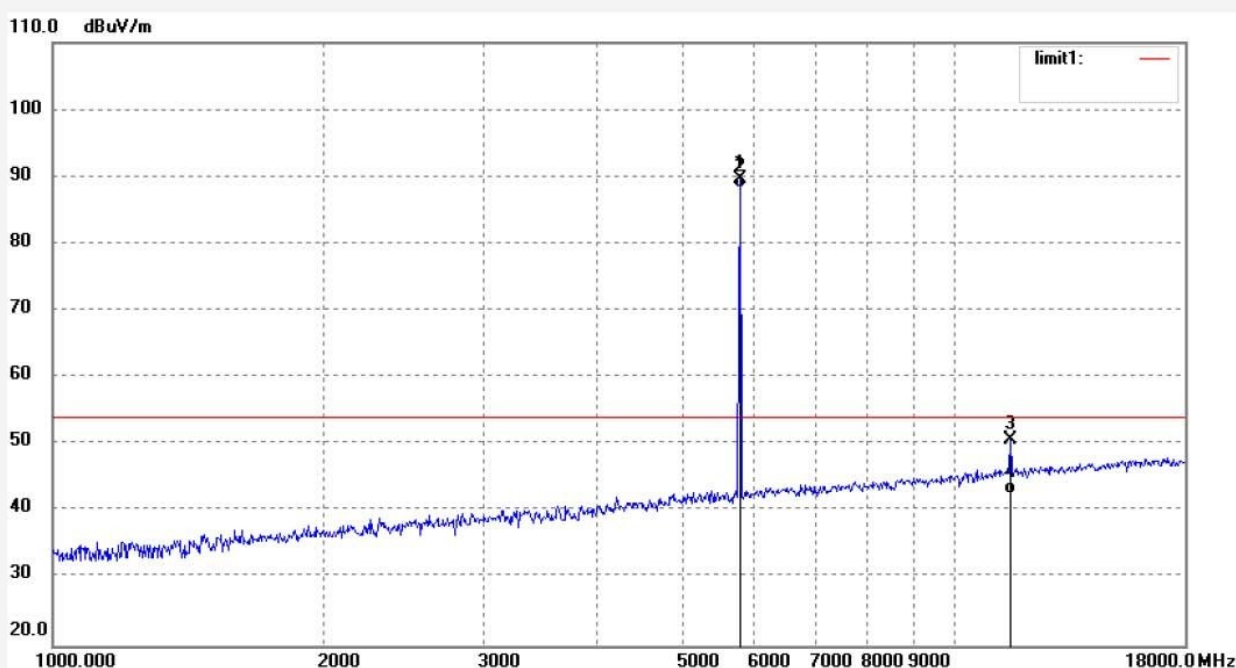
Date: 19/09/23/

Time:

Engineer Signature: WADE

Distance: 3m

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

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: B8 Soundbar Active Speaker system

Mode: TX 5773MHz

Model: B8 bass

Manufacturer: EDIFIER

Polarization: Vertical

Power Source: AC 120V/60Hz

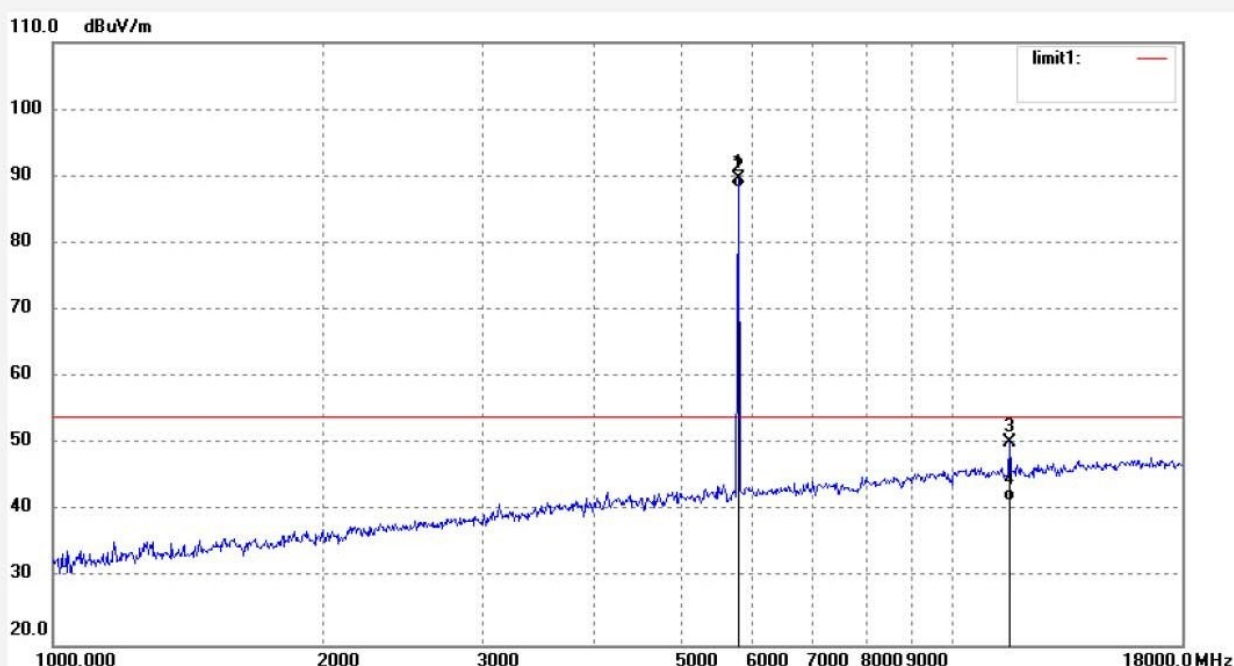
Date: 19/09/23/

Time:

Engineer Signature: WADE

Distance: 3m

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

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: B8 Soundbar Active Speaker system

Mode: TX 5820MHz

Model: B8 bass

Manufacturer: EDIFIER

Polarization: Horizontal

Power Source: AC 120V/60Hz

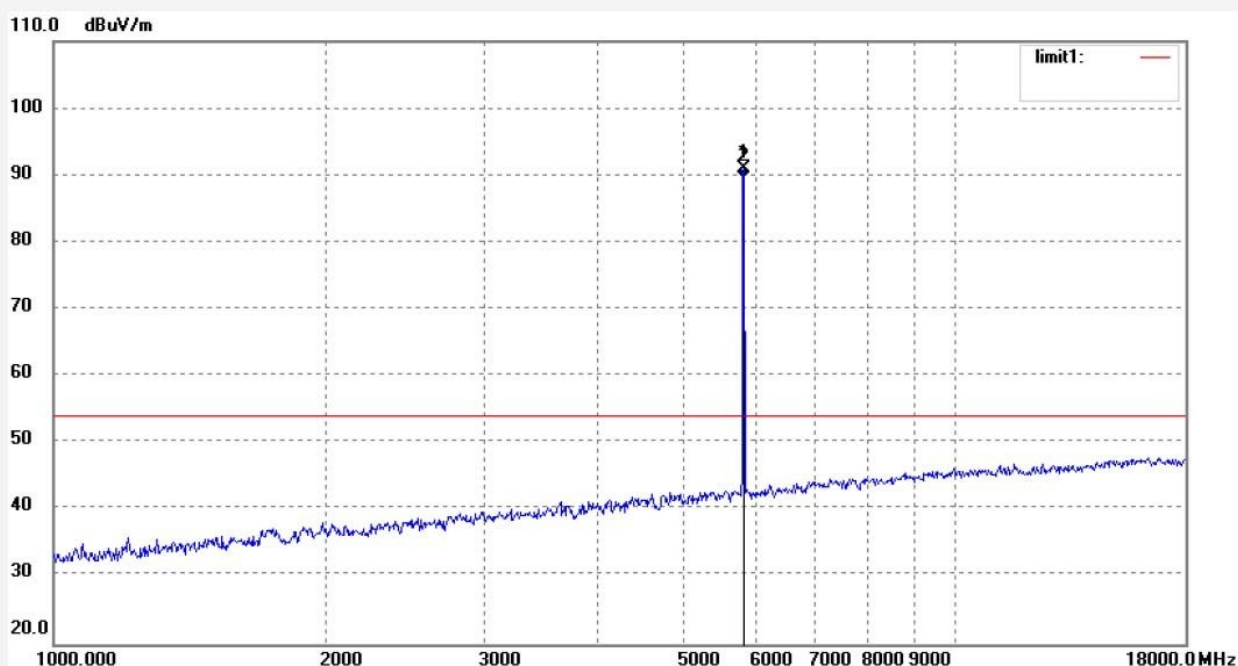
Date: 19/09/23/

Time:

Engineer Signature: WADE

Distance: 3m

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	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

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: B8 Soundbar Active Speaker system

Mode: TX 5820MHz

Model: B8 bass

Manufacturer: EDIFIER

Polarization: Vertical

Power Source: AC 120V/60Hz

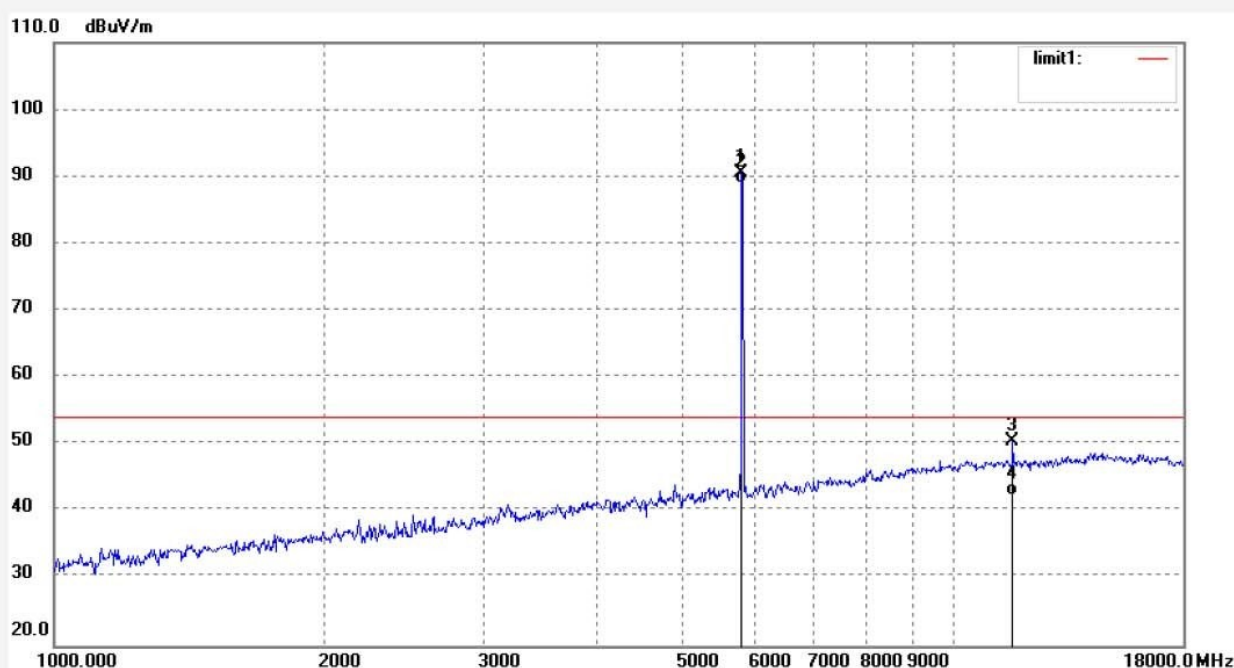
Date: 19/09/23/

Time:

Engineer Signature: WADE

Distance: 3m

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

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: B8 Soundbar Active Speaker system

Mode: TX 5731MHz

Model: B8 bass

Manufacturer: EDIFIER

Polarization: Horizontal

Power Source: AC 120V/60Hz

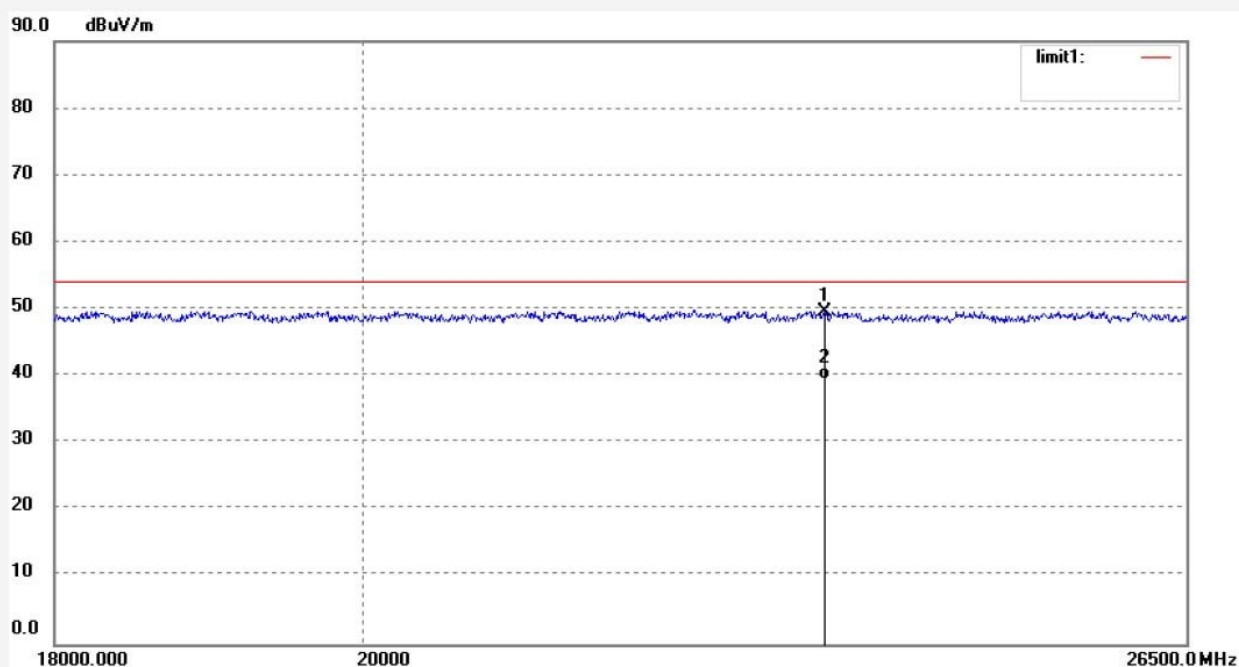
Date: 19/09/23/

Time:

Engineer Signature: WADE

Distance: 3m

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			

Job No.: LGW2019 #3322

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: B8 Soundbar Active Speaker system

Mode: TX 5731MHz

Model: B8 bass

Manufacturer: EDIFIER

Polarization: Vertical

Power Source: AC 120V/60Hz

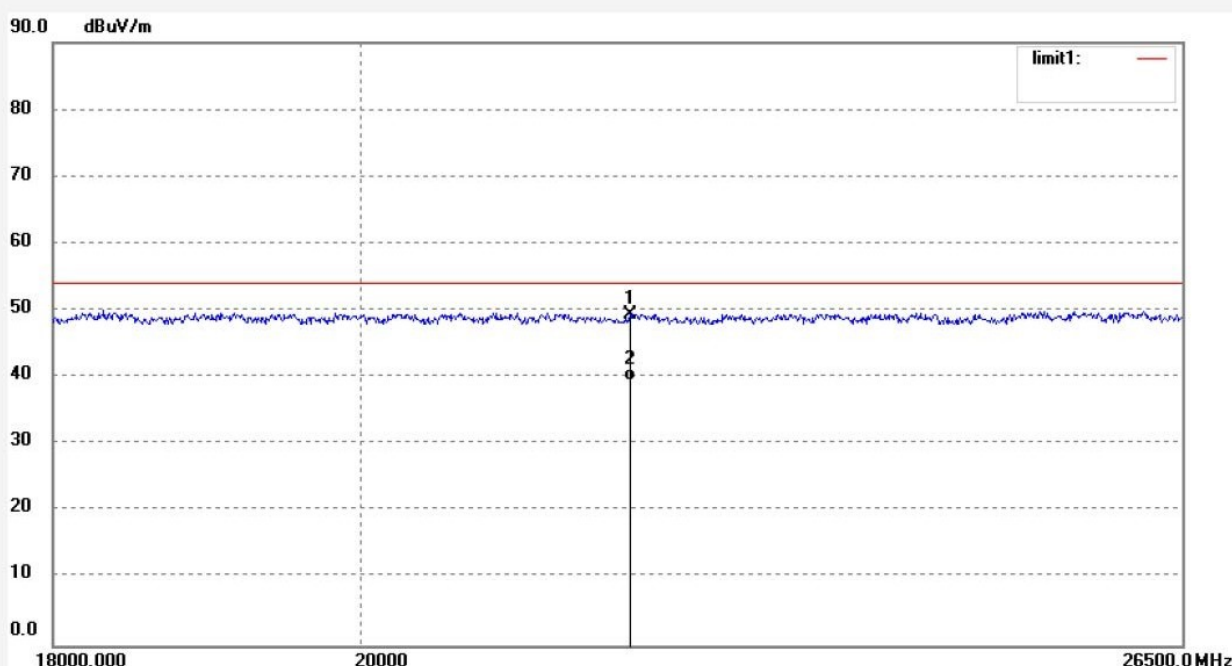
Date: 19/09/23/

Time:

Engineer Signature: WADE

Distance: 3m

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

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: B8 Soundbar Active Speaker system

Mode: TX 5773MHz

Model: B8 bass

Manufacturer: EDIFIER

Polarization: Horizontal

Power Source: AC 120V/60Hz

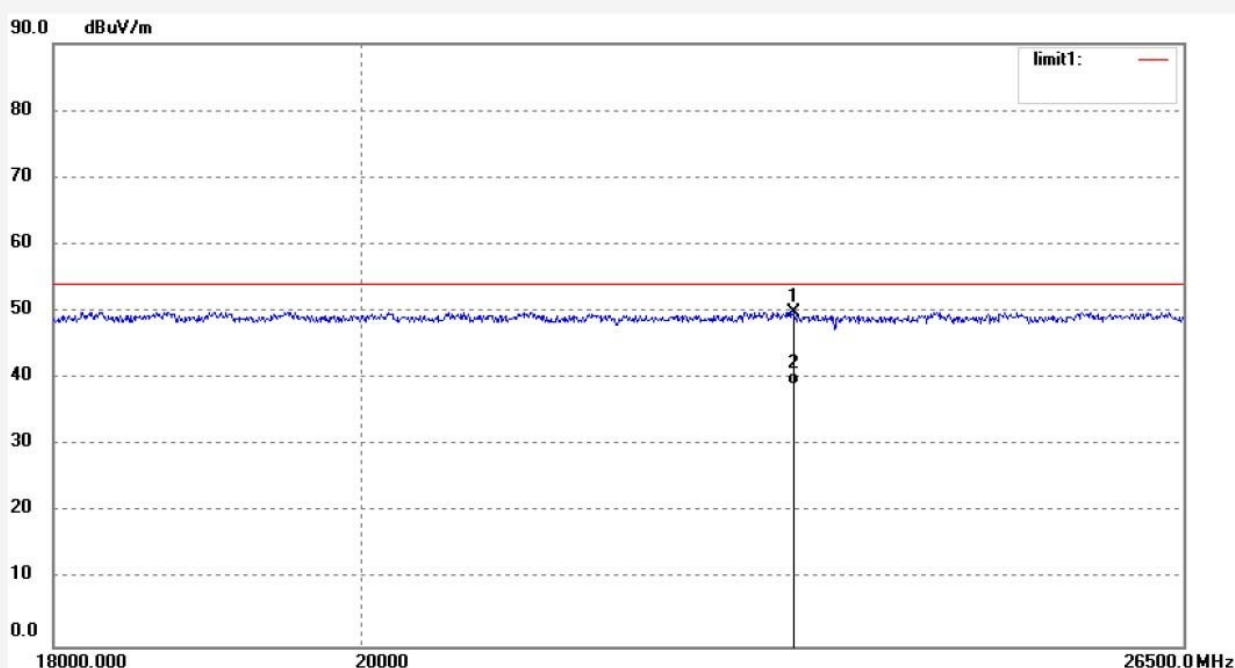
Date: 19/09/23/

Time:

Engineer Signature: WADE

Distance: 3m

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

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: B8 Soundbar Active Speaker system

Mode: TX 5773MHz

Model: B8 bass

Manufacturer: EDIFIER

Polarization: Vertical

Power Source: AC 120V/60Hz

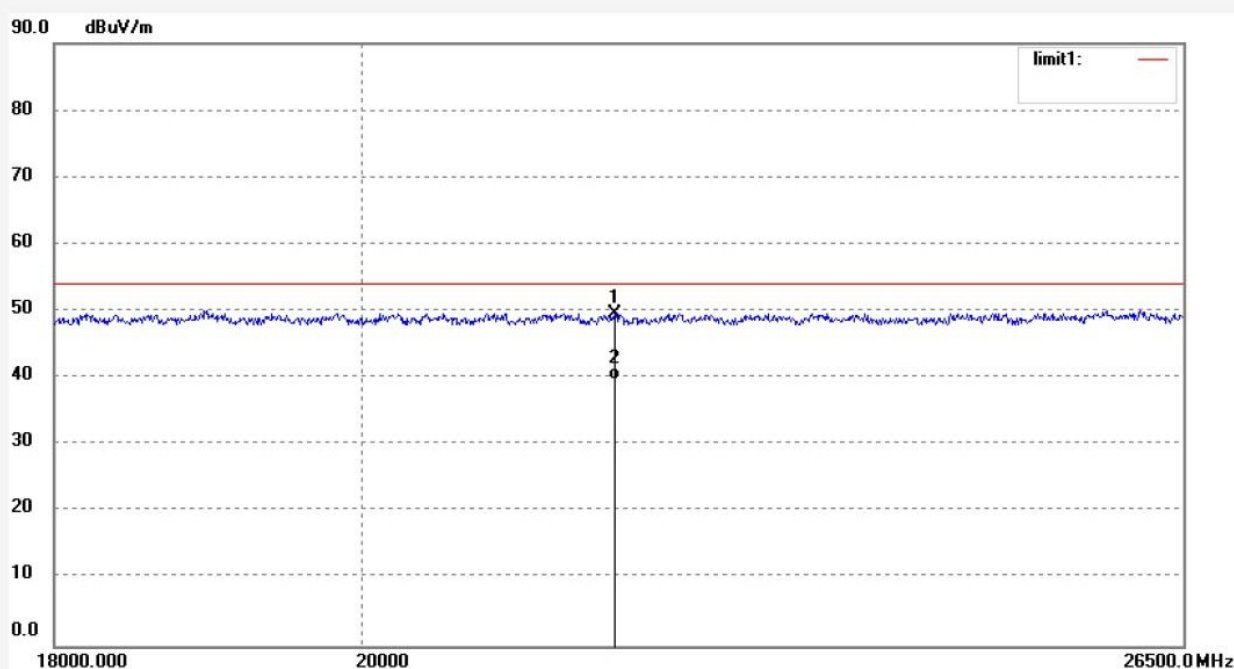
Date: 19/09/23/

Time:

Engineer Signature: WADE

Distance: 3m

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

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: B8 Soundbar Active Speaker system

Mode: TX 5820MHz

Model: B8 bass

Manufacturer: EDIFIER

Polarization: Horizontal

Power Source: AC 120V/60Hz

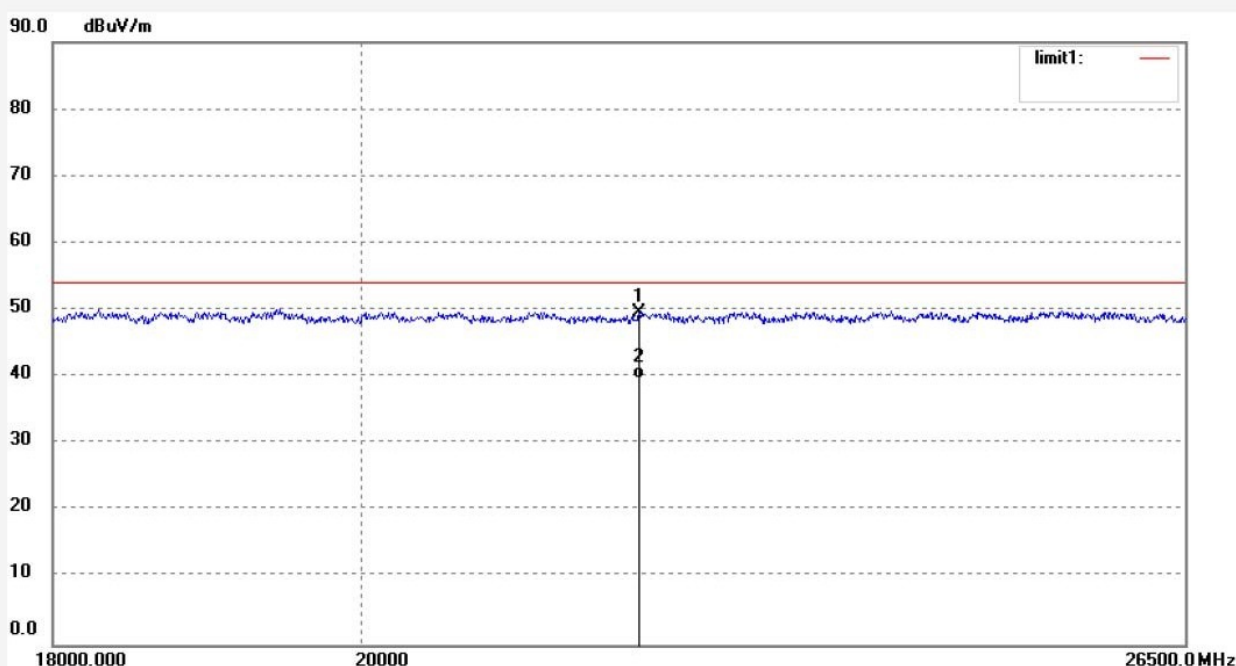
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Time:

Engineer Signature: WADE

Distance: 3m

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

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

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

EUT: B8 Soundbar Active Speaker system

Mode: TX 5820MHz

Model: B8 bass

Manufacturer: EDIFIER

Polarization: Vertical

Power Source: AC 120V/60Hz

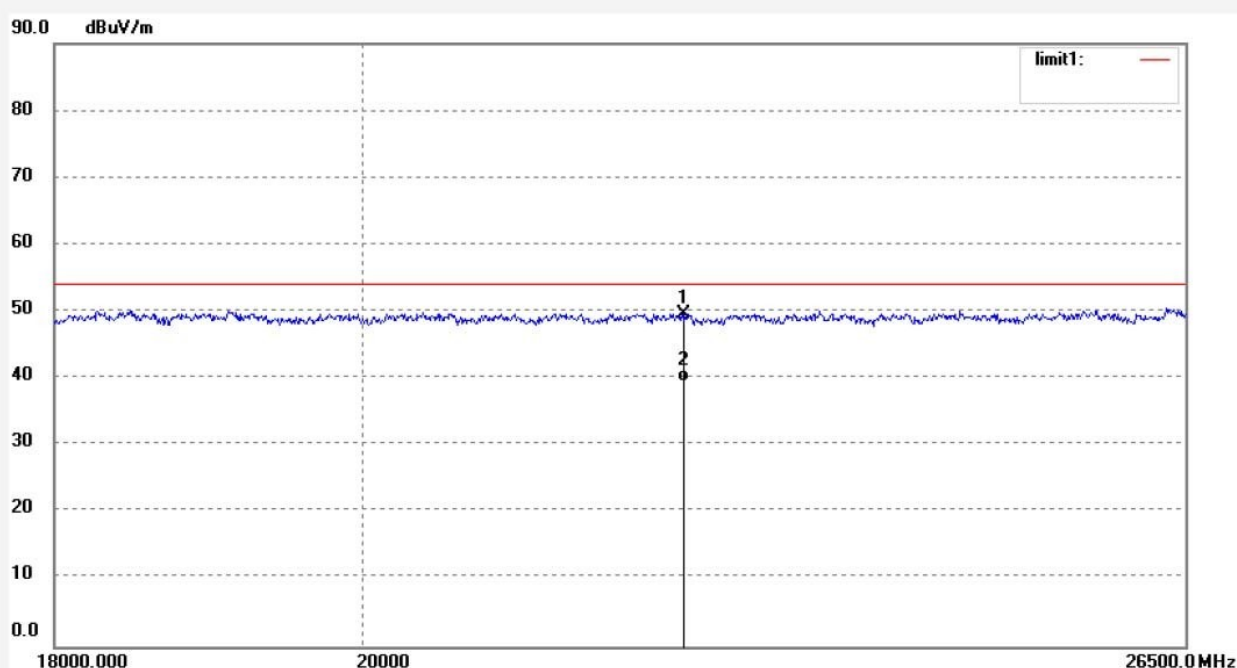
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Time:

Engineer Signature: WADE

Distance: 3m

Note:

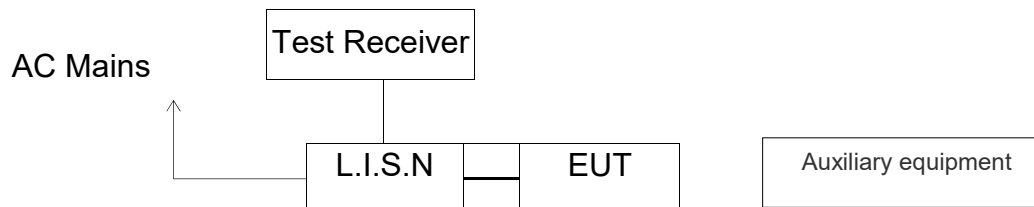


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	22327.170	17.56	32.04	49.60	74.00	-24.40	peak			
2	22327.170	7.41	32.04	39.45	54.00	-14.55	AVG			

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(μ 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 μ V)	Average Level (dB μ V)	Transducer value (dB)	QuasiPeak Result (dB μ V)	Average Result (dB μ V)	Quasi Peak Limit (dB μ V)	Average Limit (dB μ 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 dBμV	Transd dB	Limit dBμV	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 dBμV	Transd dB	Limit dBμV	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 dBμV	Transd dB	Limit dBμV	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 dBμV	Transd dB	Limit dBμV	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.

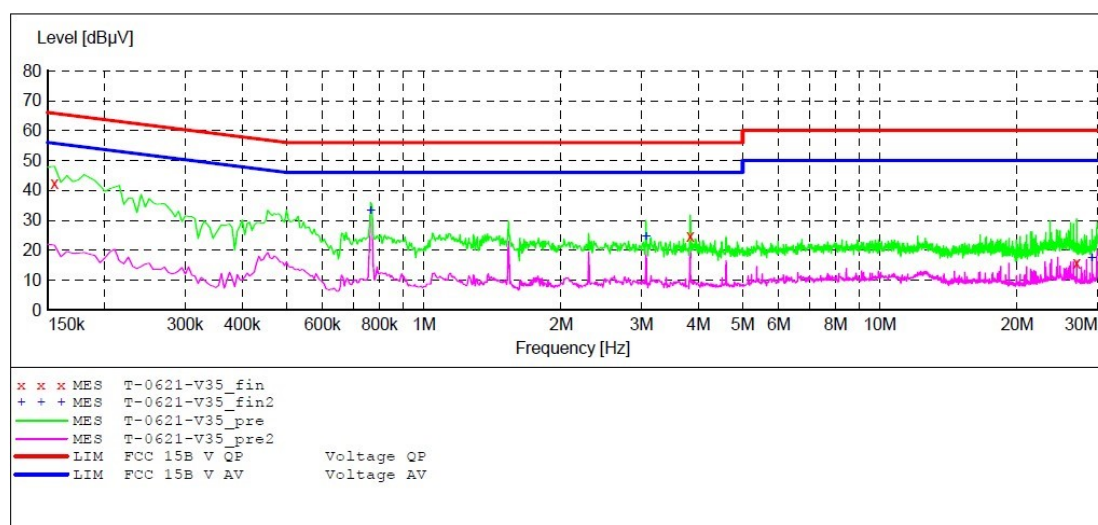
ACCURATE TECHNOLOGY CO., LTD

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 dBuV	Transd dB	Limit dBuV	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 dBuV	Transd dB	Limit dBuV	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

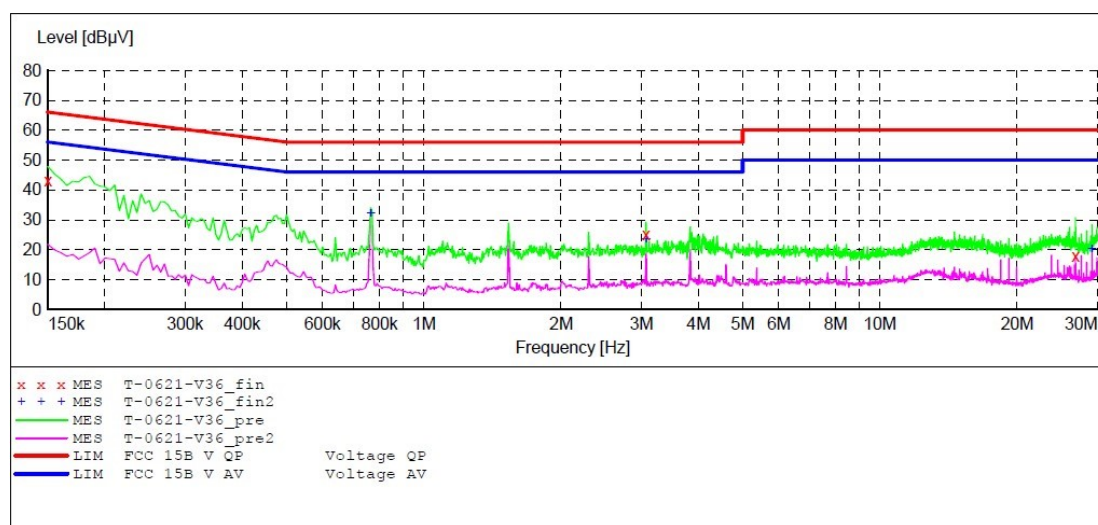
CONDUCTED EMISSION STANDARD FCC PART 15 B

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 Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	NSLK8126 2008
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 MHz	Level dBμV	Transd dB	Limit dBμV	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 dBμV	Transd dB	Limit dBμV	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