

FCC RADIO TEST REPORT FCC ID:Y8J-MB796

Product: Wireless Karaoke Soundbar

Trade Name:

Model Name: MB796

Serial Model: N/A

Report No.: NTEK-2015NT11273244F2

Prepared for

AC RYAN ASIA PACIFIC PTE. LTD.

60 KAKI BUKIT PLACE #01-12 EUNOS TECHPARK SINGAPORE
415979

Prepared by

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TEST RESULT CERTIFICATION

Report No.: NTEK-2015NT11273244F2

Address: Manufacture's Name:	 AC RYAN ASIA PACIFIC PTE. LTD. 60 KAKI BUKIT PLACE #01-12 EUNOS TECHPARK SINGAPORE 415979 AC RYAN ASIA PACIFIC PTE. LTD. 60 KAKI BUKIT PLACE #01-12 EUNOS TECHPARK SINGAPORE 415979 			
Product description				
Product name:	Wireless	Karaoke Soundbar		
Model and/or type reference :	MB796			
Serial Model:	N/A			
Rating(s):	AC 120V			
Standards:	FCC Part	15.249 01 Oct. 2015		
Test procedure	ANSI C63	3.10-2013		
	n compliar	sted by NTEK, and the test results show that the nce with the FCC requirements. And it is applicable only rt.		
·	ised by N	t in full, without the written approval of NTEK, this ΓΕΚ, personnel only, and shall be noted in the revision of		
Date (s) of performance of tests		27 Nov. 2015 ~27 Jan. 2016		
Date of Issue	:	27 Jan. 2016		
Test Result	:	Pass		
Testing Engine	eer :	Jason chen		
		(Jason Chen)		
Technical Man	ager :	(Brown Lu)		
Authorized Sig	gnatory :	(Sam Chen)		

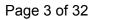




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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15, Subpart C (15.249)				
Standard Section	Test Item	Judgment	Remark	
15.207	Conducted Emission	Pass		
15.203	Antenna Requirement	Pass		
15.249	Radiated Spurious Emission	Pass		
15.205	Band Edge Emission	Pass		
15.249	Occupied Bandwidth	Pass		



1.1 TEST FACILITY

NTEK Testing Technology Co., Ltd

Add.: 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District,

Shenzhen P.R. China.

FCC FRN Registration No.:238937; IC Registration No.:9270A-1

CNAS Registration No.:L5516

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of **k=2**, providing a level of confidence of approximately 95 % •

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Wireless Karaoke Soundbar		
Trade Name	mament		
Model Name	MB796		
Serial Model	N/A		
Model Difference	N/A		
Product Description	The EUT is a Wireless Karaoke Soundbar Operation Frequency: 2443.0MHz		
Channel List	Please refer to the Note 2.		
Power	AC 120V/60Hz		
Battery	N/A		

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.

Channel	Frequency (MHz)
01	2443

3.

Table for Filed Antenna

	able for three three three					
Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	N/A	PCB Antenna	N/A	1.0	Antenna



2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	Link Mode
Mode 2	CH 01

For Conducted Emission		
Final Test Mode Description		
Mode 1	Link Mode	

For Radiated Emission			
Final Test Mode Description			
Mode 1 Link Mode			
Mode 2	CH 01		

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The EUT use new battery.



2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test

E-1 EUT

Conducted Emission Test

E-1 EUT(TX) E-1 EUT(RX) AC Plug

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2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Wireless Karaoke Soundbar	manum	MB796	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>[Length]</code> column.



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

	ation root equipme	•••			
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	Agilent	E4407B	160400005	Jul. 06. 2016
2	Test Receiver	R&S	ESPI	101318	Jul. 06. 2016
3	Bilog Antenna	TESEQ	CBL6111D	31216	Jul. 06. 2016
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	Jul. 06. 2016
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	Jul. 06. 2016
6	Horn Antenna	EM	EM-AH-10180	2011071402	Jul. 06. 2016
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	Jul. 06. 2016
8	Amplifier	EM	EM-30180	060538	Jul. 06. 2016
9	Loop Antenna	ARA	PLA-1030/B	1029	Jul. 06. 2016
10	Power Meter	R&S	NRVS	100696	Jul. 06. 2016

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Conduction Test equipment

COIN	Conduction rest equipment							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until			
1	Test Receiver	R&S	ESCI	101160	Jul. 06. 2016			
2	LISN	R&S	ENV216	101313	Jul. 06. 2016			
3	LISN	EMCO	3816/2	00042990	Jul. 06. 2016			
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	Jul. 06. 2016			
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	Jul. 06. 2016			
6	Absorbing clamp	R&S	MOS-21	100423	Jul. 06. 2016			



3. ANTENNA REQUIREMENT

3.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: 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.

3.2 EUT ANTENNA

	The EUT antenna is	permanent	attached an	tenna. It coi	mply with	the s	standard r	equiremen
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3.3 CONDUCTED EMISSION MEASUREMENT

3.3.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

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FREQUENCY (MHz)	Class A (dBuV)		Class B	Standard	
	Quasi-peak	Average	Quasi-peak	Average	Standard
0.15 -0.5			66 - 56 *	56 - 46 *	CISPR
0.50 -5.0			56.00	46.00	CISPR
5.0 -30.0			60.00	50.00	CISPR

0.15 -0.5		66 - 56 *	56 - 46 *	LP002.
0.50 -5.0		56.00	46.00	LP002.
5.0 -30.0		60.00	50.00	LP002.

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



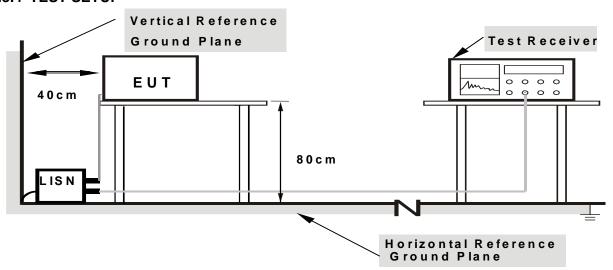
3.3.2 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.3.3 DEVIATION FROM TEST STANDARD

No deviation

3.3.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes



3.2.5 TEST RESULT

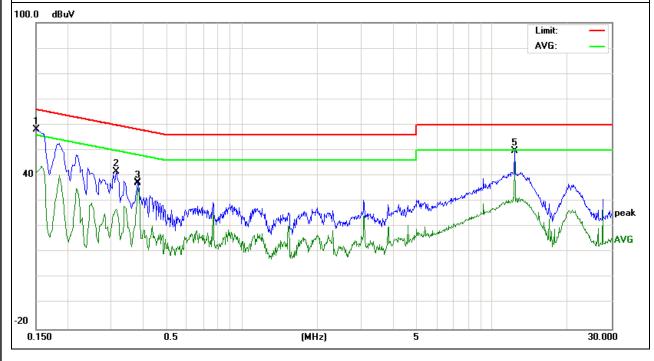
EUT:	Wireless Karaoke Soundbar	Model Name. :	MB796
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 1

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Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1500	48.14	10.12	58.26	65.99	-7.73	peak
0.3140	31.63	10.13	41.76	59.86	-18.10	peak
0.3820	27.24	10.06	37.30	58.23	-20.93	peak
0.3820	25.18	10.06	35.24	48.23	-12.99	AVG
12.2900	39.92	9.82	49.74	60.00	-10.26	peak
12.2900	35.35	9.82	45.17	50.00	-4.83	AVG

Remark:

All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.





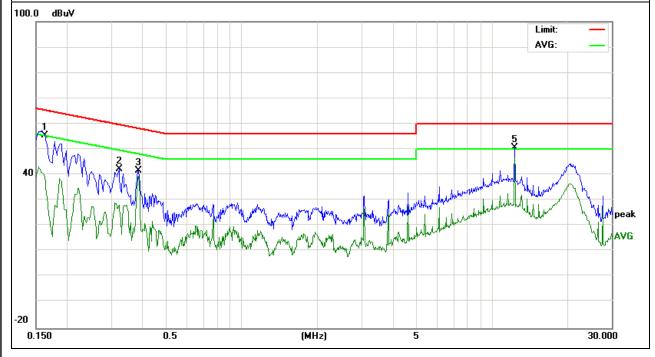
EUT:	Wireless Karaoke Soundbar	Model Name. :	MB796
Temperature:	26 ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 1

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Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1624	45.46	10.06	55.52	65.34	-9.82	peak
0.3220	32.18	10.11	42.29	59.65	-17.36	peak
0.3860	31.53	10.06	41.59	58.15	-16.56	peak
0.3860	29.42	10.06	39.48	48.15	-8.67	AVG
12.2900	40.74	9.78	50.52	60.00	-9.48	peak
12.2900	37.00	9.78	46.78	50.00	-3.22	AVG

Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.



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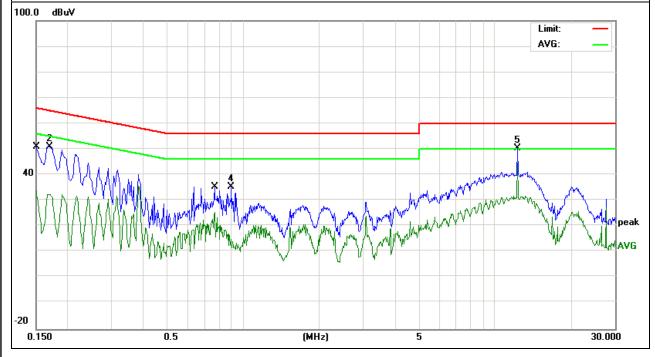
EUT:	Wireless Karaoke Soundbar	Model Name. :	MB796
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	AC 240V/60Hz	Test Mode:	Mode 1

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Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1500	23.84	10.12	33.96	55.99	-22.03	AVG
0.1700	40.96	10.12	51.08	64.96	-13.88	peak
0.7700	15.78	9.80	25.58	46.00	-20.42	AVG
0.8980	25.63	9.83	35.46	56.00	-20.54	peak
12.2900	40.44	9.82	50.26	60.00	-9.74	peak
12.2900	34.82	9.82	44.64	50.00	-5.36	AVG

Remark:

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.





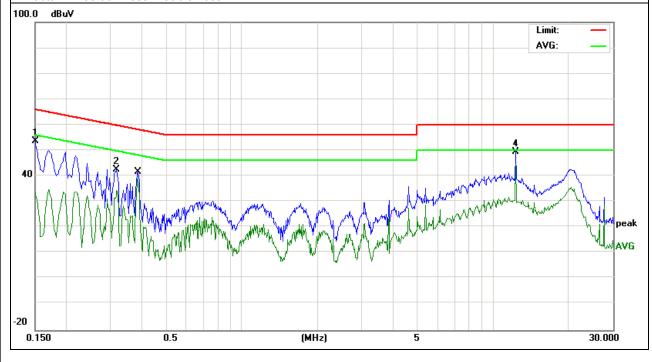
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EUT:	Wireless Karaoke Soundbar	Model Name. :	MB796
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	AC 240V/60Hz	Test Mode:	Mode 1

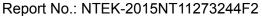
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Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1500	43.55	10.08	53.63	65.99	-12.36	peak
0.3180	32.47	10.12	42.59	59.76	-17.17	peak
0.3860	29.00	10.06	39.06	48.15	-9.09	AVG
12.2900	39.67	9.78	49.45	60.00	-10.55	peak

Remark:

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.







3.4 RADIATED EMISSION MEASUREMENT

3.4.1 Radiated Emission Limits (FCC 15.209)

Frequencies (MHz)	Field Strength (micorvolts/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
Frequency (MHz)	Limit (dBuV)	
30~88	40	3
88~216	43.5	3
216~960	46	3
960 -10000	54.00	3
*902 - 928	94.00	3

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Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission level (dBuV/m)=20log Emission level (uV/m).
- (3) *Note: This is the limit for the fundamental frequency.

LIMITS OF RADIATED EMISSION MEASUREMENT (FCC 15.249)

Frequency of Emission (MHz)	Field Strength of fundamental	Field Strength of Harmonics	
` '	((millivolts /meter)	(microvolts/meter)	
902-928	50	500	

Notes:

(1) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1MHz / 1MHz for Peak

Receiver Parameter	Setting
Attenuation	Auto
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



3.4.2 TEST PROCEDURE

a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.

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- b. The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

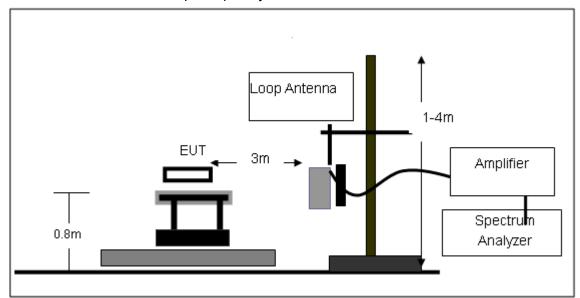
3.4.3 DEVIATION FROM TEST STANDARD

No deviation



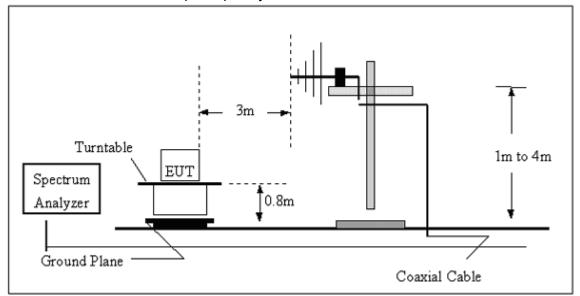
3.4.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz

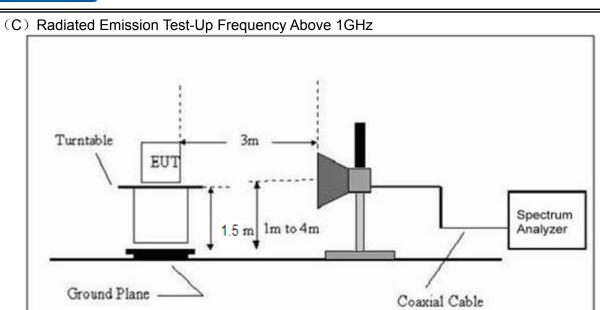


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(B) Radiated Emission Test-Up Frequency 30MHz~1GHz







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3.4.5 TEST RESULTS (BLOW 30MHz)

EUT:	Wireless Karaoke Soundbar	Model Name. :	MB796
Temperature :	20 ℃	Relative Humidtity:	48%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX	Polarization :	

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Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				N/A
				N/A

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =20 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



3.4.6 TEST RESULTS (BETWEEN 30 – 1000 MHZ)

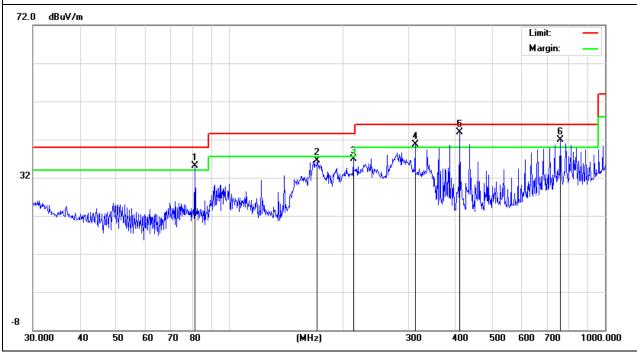
EUT:	Wireless Karaoke Soundbar	Model Name :	MB796
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX	Polarization :	Horizontal

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Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
80.9275	26.00	9.03	35.03	40.00	-4.97	QP
171.3925	24.11	12.49	36.60	43.50	-6.90	QP
213.7633	25.80	11.03	36.83	43.50	-6.67	QP
312.1794	27.68	13.05	40.73	46.00	-5.27	QP
410.3825	29.23	14.70	43.93	46.00	-2.07	QP
760.7036	19.82	22.16	41.98	46.00	-4.02	QP

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.





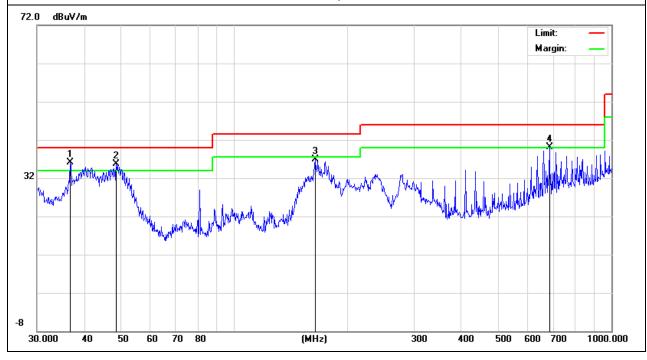
EUT:	Wireless Karaoke Soundbar	Model Name :	MB796
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX	Polarization :	Vertical

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Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
36.7662	19.66	16.49	36.15	40.00	-3.85	QP
48.6719	25.93	9.78	35.71	40.00	-4.29	QP
163.7550	25.15	11.68	36.83	43.50	-6.67	QP
684.7454	19.27	20.87	40.14	46.00	-5.86	QP

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.





3.4.7 TEST RESULTS (ABOVE 1000 MHZ)

EUT:	Wireless Karaoke Soundbar	Model Name :	MB796
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX-2443MHz	Polarization :	Horizontal

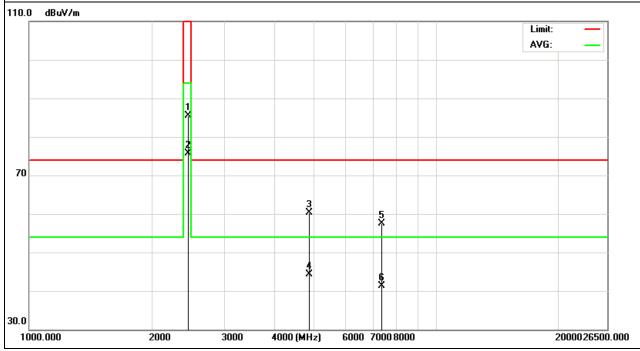
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Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Turns
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2443.005	98.35	-12.93	85.42	114.00	-28.58	peak
2443.005	88.64	-12.93	75.71	94.00	-18.29	AVG
4886.023	64.03	-3.69	60.34	74.00	-13.66	peak
4886.023	48.04	-3.69	44.35	54.00	-9.65	AVG
7329.113	58.33	-0.81	57.52	74.00	-16.48	peak
7329.113	42.08	-0.81	41.27	54.00	-12.73	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No emission above 18GHz.





	_	_	
EUT:	Wireless Karaoke Soundbar	Model Name :	MB796
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX-2443MHz	Polarization :	Vertical

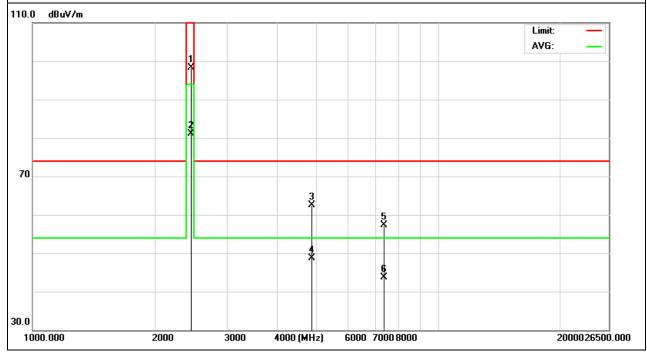
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Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2443.005	111.22	-12.93	98.29	114.00	-15.71	peak
2443.005	94.06	-12.93	81.13	94.00	-12.87	AVG
4886.023	66.25	-3.69	62.56	74.00	-11.44	peak
4886.023	52.31	-3.69	48.62	54.00	-5.38	AVG
7329.113	58.04	-0.81	57.23	74.00	-16.77	peak
7329.113	44.56	-0.81	43.75	54.00	-10.25	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No emission above 18GHz.



Note: EUT Pre-scan X/Y/Z orientation, only worst case is presented in the report(X orientation).



3.4.8 TEST RESULTS (RESTRICTED BANDS REQUIREMENTS)

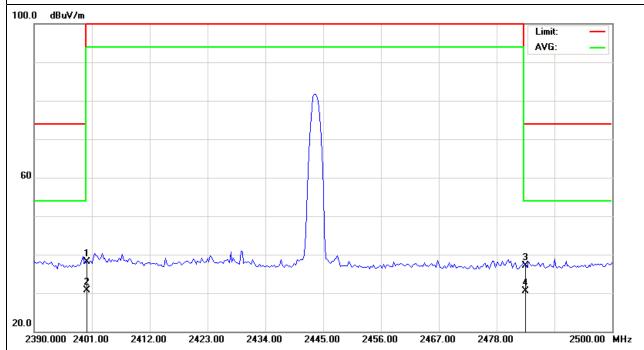
EUT:	Wireless Karaoke Soundbar	Model Name :	MB796
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX- 2443MHz	Polarization :	Horizontal

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Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotoctor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2400.000	48.66	-10.47	38.19	74.00	-35.81	peak
2400.000	41.26	-10.47	30.79	54.00	-23.21	AVG
2483.500	48.54	-11.49	37.05	74.00	-36.95	peak
2483.500	42.03	-11.49	30.54	54.00	-23.46	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



.



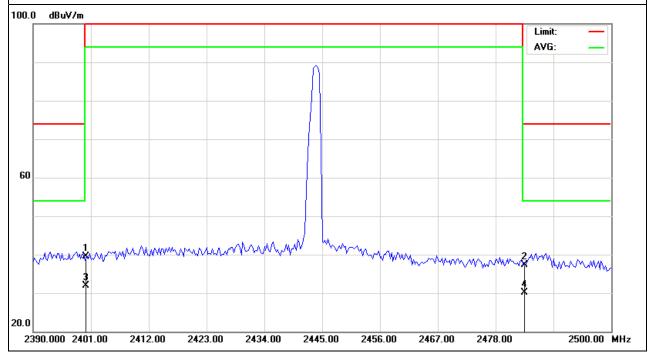
EUT:	Wireless Karaoke Soundbar	Model Name :	MB796
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX- 2443MHz	Polarization :	Vertical

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Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2400.000	49.97	-10.47	39.50	74.00	-34.50	peak
2483.500	48.69	-11.49	37.20	74.00	-36.80	peak
2400.000	42.37	-10.47	31.90	54.00	-22.10	AVG
2483.500	41.59	-11.49	30.10	54.00	-23.90	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.





4. BANDWIDTH TEST

4.1 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below, b. Spectrum Setting : RBW= 100KHz, VBW≧RBW, Sweep time = Auto.

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4.2 DEVIATION FROM STANDARD

No deviation.

4.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

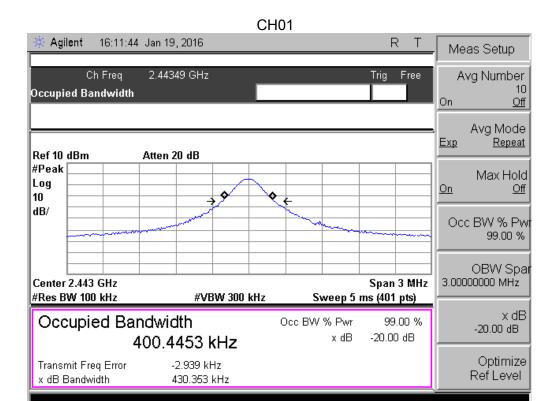


4.4 TEST RESULTS

EUT:	Wireless Karaoke Soundbar	Model Name :	MB796
Temperature :	26 ℃	Relative Humidity:	53%
Pressure :	1020 hPa	Test Power :	AC 120V/60Hz
Test Mode :	TX		

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Test Channel	Frequency	20 dBc Bandwidth
lest Chamilei	(MHz)	(MHz)
CH01	2443	0.430



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5. EUT TEST PHOTO



