

FCC Test Report

Report No.: AGC04138190301FE06

FCC ID : 2AAXO-CPK545
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : CARPOOL KARAOKE MICROPHONE
BRAND NAME : singing machine
MODEL NAME : CPK545, CPK545Q1, CPK545Q2, CPK545C, CPK555,
CPK565, CPK545XX, CPK555XX, CPK565XX (XX means
unit color, it can be A to Z or N/A)
CLIENT : The Singing Machine Company Inc.
DATE OF ISSUE : Apr. 11, 2019
STANDARD(S) : FCC Part 15.239
REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Apr. 11, 2019	Valid	Initial Release

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1. VERIFICATION OF CONFORMITY

Applicant	The Singing Machine Company Inc.
Address	6301 NW 5th Way, Suite 2900 Fort Lauderdale, FL, 33309, U.S.A.
Manufacturer	ZHUHAI FULLWING ELECTRONIC CO., LTD ZHONGSHAN BRANCH
Address	4/F & 5/F, No 10, Xingye Road, Xinxu, San Xiang, Zhongshan, Guangdong, China
Factory	ZHUHAI FULLWING ELECTRONIC CO., LTD ZHONGSHAN BRANCH
Address	4/F & 5/F, No 10, Xingye Road, Xinxu, San Xiang, Zhongshan, Guangdong, China
Product Designation	CARPOOL KARAOKE MICROPHONE
Brand Name	singing machine
Test Model	CPK545
Series Model	CPK545Q1, CPK545Q2, CPK545C, CPK555, CPK565, CPK545XX, CPK555XX, CPK565XX (XX means unit color, it can be A to Z or N/A)
Difference Description	All the same except for the model name and the color of appearance
Date of test	Apr. 05, 2019 to Apr. 11, 2019
Deviation	None
Condition of Test Sample	Normal
Report Template	AGCRT-US-BR/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC part 15.239.

Tested By

Draven Li

Draven Li(Li Ming Liang)

Apr. 11, 2019

Reviewed By

Max Zhang

Max Zhang(Zhang Yi)

Apr. 11, 2019

Approved By

Forrest Lei

Forrest Lei(Lei Yonggang)
Authorized Officer

Apr. 11, 2019

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	88.1MHz-107.9MHz
Field Strength(3m)	45.57dBuV/m(AV)@3m
Modulation	FM
Number of channels	199(Channel spacing 100kHz)
Hardware Version	SMM545-USB-V1.1
Software Version	1.0
Antenna Designation	Integrated Antenna (Met 15.203 Antenna requirement)
Power Supply	DC 3.7V by battery

NOTE: 1. About the EUT, please refer to User's Manual.

2. FM tuning range is 88.1 MHz to 107.9MHz.

3. The end user can not use EUT settings to affect the FM modulated signal.

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3. MEASUREMENT UNCERTAINTY

Conducted measurement: +/- 3.18dB

Radiated measurement: +/- 3.91dB

4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Transmitting mode(Low channel)
2	Transmitting mode(Middle channel)
3	Transmitting mode(High channel)

Note:

- For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- A 16 dB increase cannot be achieved. All the requirements have been tested by modulating the transmitter with a 2.5 kHz tone at a fixed level which set to the manufacturer's maximum rated input to the modulator.(Refer to criteria as defined in C63.10 clause 8.7 b.)

5. SYSTEM TEST CONFIGURATION

5.1. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	CARPOOL KARAOKE MICROPHONE	CPK545	2AAXO-CPK545	EUT
2	Adapter	DYS602-150400W	DC 5V/1A	Support
3	Speaker	A1	N/A	Support

5.2. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
15.209	Field Strength of Fundamental and Spurious Emission	Compliant
15.215	Bandwidth	Compliant
15.207	Line Conducted Emission	Compliant

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6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun. 12, 2018	Jun. 11, 2019
LISN	R&S	ESH2-Z5	100086	Aug. 28, 2018	Aug. 27, 2019

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun.12, 2018	Jun.11, 2019
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 20, 2018	Dec. 19, 2019
Active loop antenna (9K-30MHz)	A.H.	SAS-562B	N/A	Jun.14, 2018	Jun.13, 2019
Audio analyzer	HP	8920B	US35010161	Jun.12, 2018	Jun.11, 2019
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep. 28, 2017	Sep. 27, 2019

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7. RADIATED EMISSION

7.1. MEASUREMENT PROCEDURE

1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground and opposite the horn antenna. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions below 1GHz, use 120KHz RBW and VBW $\geq$ 3RBW for QP reading.
7. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.
8. Only the worst case is reported.

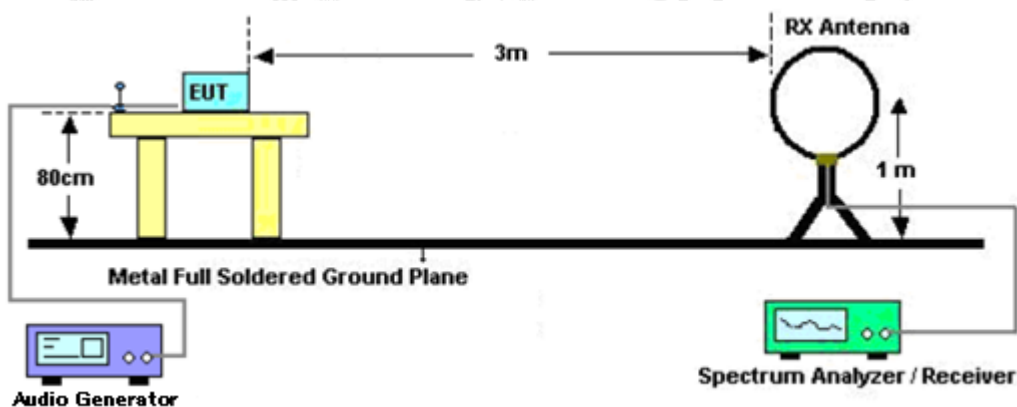
The following table is the setting of spectrum analyzer and receiver.

Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RBW 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RBW 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RBW 120KHz for QP

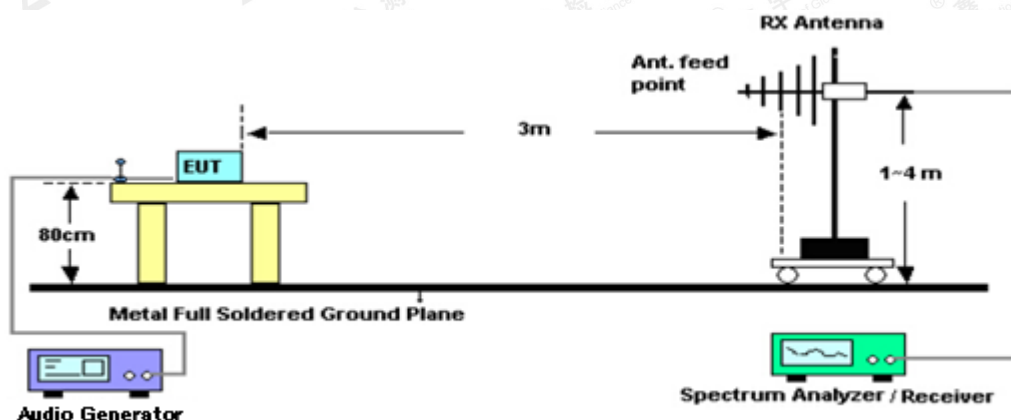
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7.2. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



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7.3. TEST RESULT FOR FIELD STRENGTH OF FUNDAMENTAL

Frequency MHz	Polarization	Level dB(uV/m) PK	Limit dB(uV/m) PK	Margin dB	Pass/Fail	Detector
88.100	H	46.21	67.96	21.75	Pass	PK
88.100	V	43.40	67.96	24.56	Pass	PK
98.000	H	46.11	67.96	21.85	Pass	PK
98.000	V	43.20	67.96	24.76	Pass	PK
107.900	H	45.78	67.96	22.18	Pass	PK
107.900	V	42.19	67.96	25.77	Pass	PK
Frequency MHz	Polarization	Level dB(uV/m) AV	Limit dB(uV/m) AV	Margin dB	Pass/Fail	Detector
88.100	H	45.57	47.96	2.39	Pass	AV
88.100	V	42.28	47.96	5.68	Pass	AV
98.000	H	45.35	47.96	2.61	Pass	AV
98.000	V	42.05	47.96	5.91	Pass	AV
107.900	H	44.77	47.96	3.19	Pass	AV
107.900	V	41.08	47.96	6.88	Pass	AV

7.4. TEST RESULT FOR FIELD STRENGTH OF BAND EDGE EMISSION

Frequency MHz	Polarization	Level dB(uV/m) QP	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Detector
88.000	H	32.75	40.00	7.25	Pass	QP
88.000	V	31.77	40.00	8.23	Pass	QP
108.000	H	31.56	43.50	11.94	Pass	QP
108.000	V	30.06	43.50	13.44	Pass	QP

Note: The above two frequencies are the worst case for the band edge emission test.

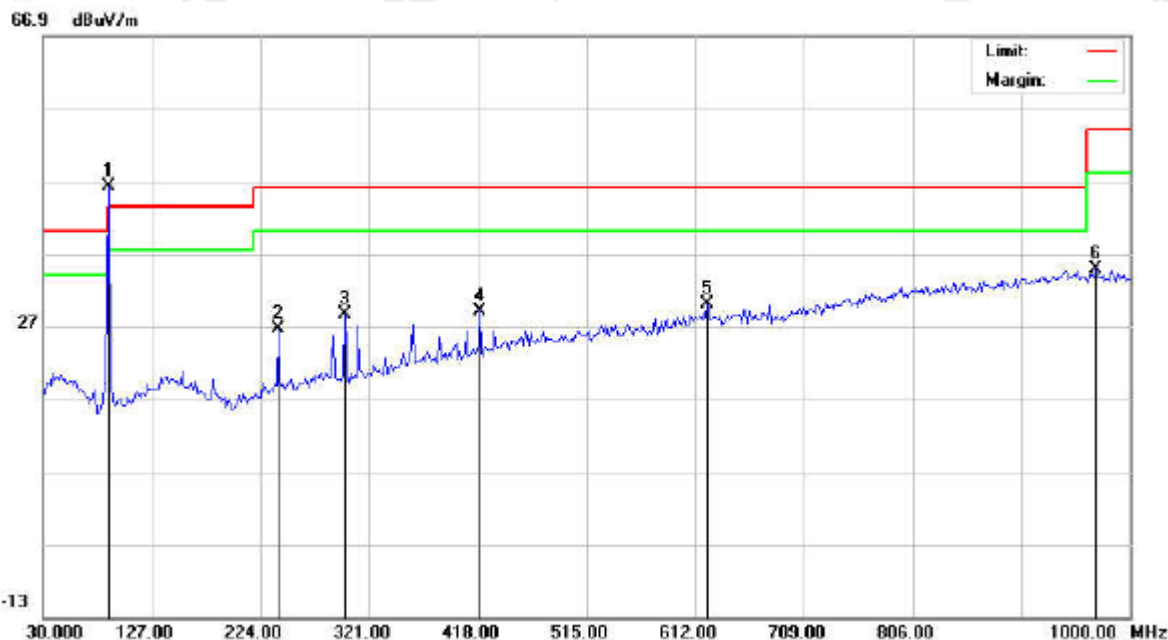
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7.5. TEST RESULT FOR SPURIOUS EMISSION

RADIATED EMISSION BELOW 30MHz

No emission found between lowest internal used/generated frequencies to 30MHz.

RADIATED EMISSION BELOW 1GHZ-Horizontal

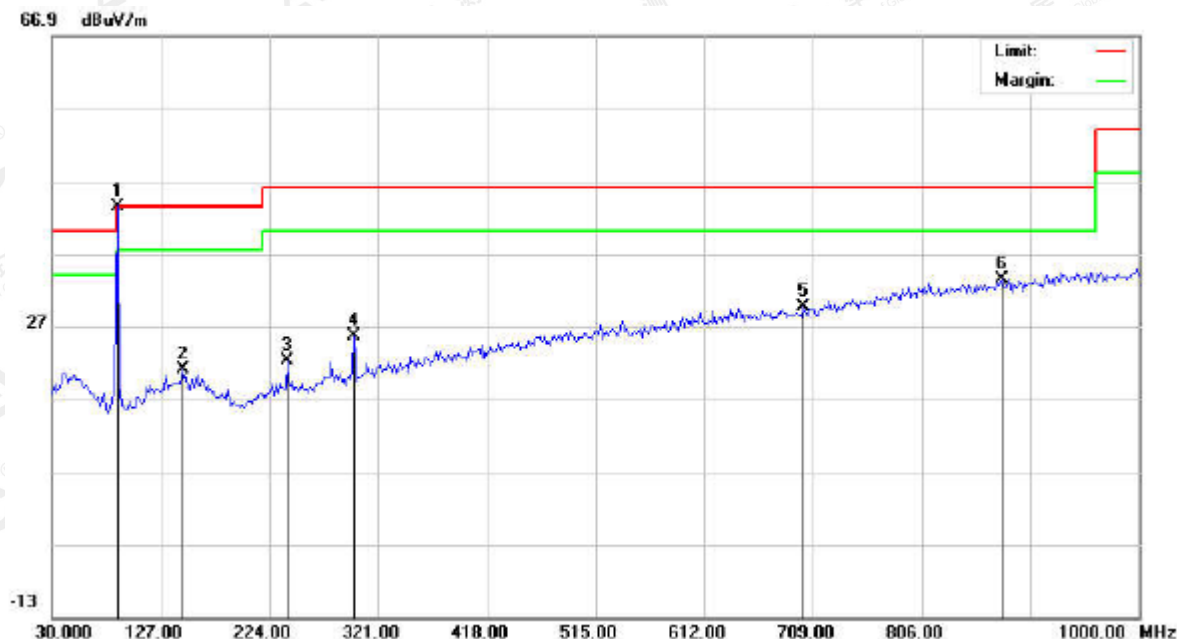


No.	Mk	Freq. MHz	Reading dBuV	Factor dBuV/m	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1	*	88.1000	31.24	14.97	46.21						
2		240.1667	7.95	18.66	26.61	46.00	-19.39	peak			
3		299.9833	9.07	19.47	28.54	46.00	-17.46	peak			
4		419.6166	5.73	23.37	29.10	46.00	-16.90	peak			
5		623.3167	2.68	27.23	29.91	46.00	-16.09	peak			
6		969.2833	2.46	32.30	34.76	54.00	-19.24	peak			

RESULT: PASS

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RADIATED EMISSION BELOW 1GHZ-Vertical



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dBuV/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	88.1000	28.43	14.97	43.40						
2		146.3999	1.71	19.22	20.93	43.50	-22.57	peak			
3		240.1667	3.58	18.66	22.24	46.00	-23.76	peak			
4		299.9833	6.12	19.47	25.59	46.00	-20.41	peak			
5		700.9166	1.38	28.17	29.55	46.00	-16.45	peak			
6		877.1333	1.92	31.40	33.32	46.00	-12.68	peak			

RESULT: PASS

Note:

- Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.
- The "Factor" value can be calculated automatically by software of measurement system.
- All test modes had been tested. The Low channel is the worst case and recorded in the report.

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8. BANDWIDTH

8.1. MEASUREMENT PROCEDURE

1. Set the parameters of SPA as below:

Centre frequency = Operation Frequency

RBW=10KHz

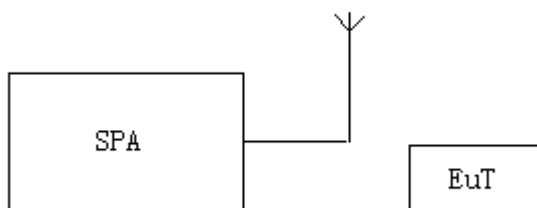
VBW=30KHz

Span: 300kHz

Sweep time: Auto

2. Set the EUT to continue transmitting mode. Allow the trace to stabilize. Use the “N dB down” function of SPA to define the bandwidth.
3. Record the plots and Reported.

8.2. TEST SETUP

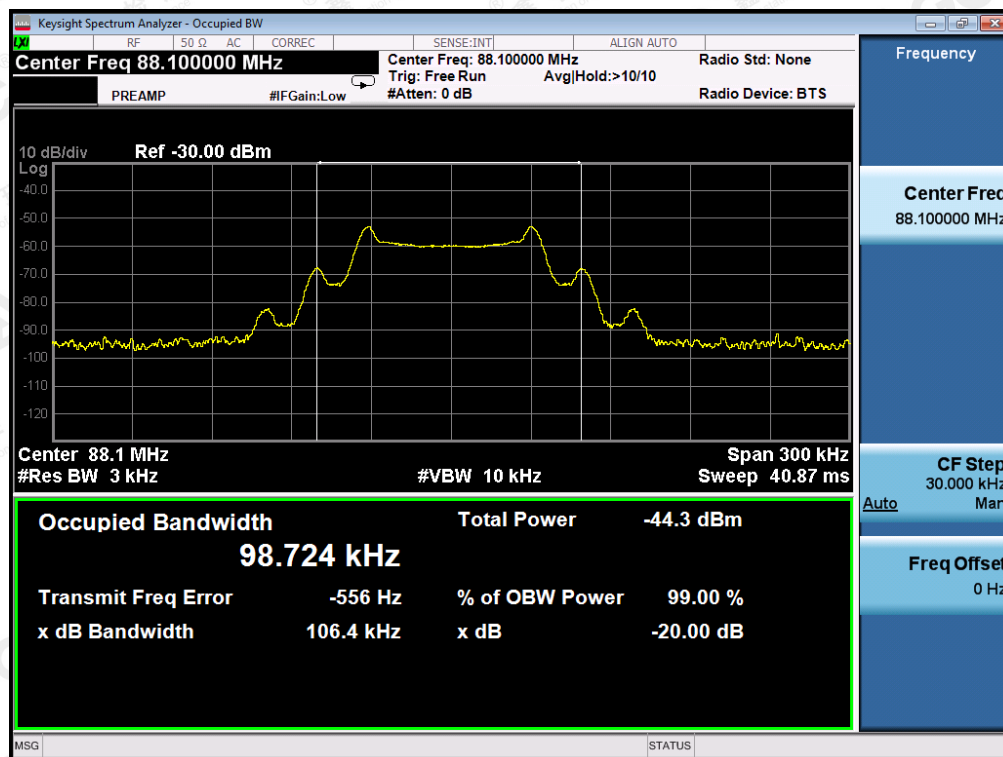


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8.3. TEST RESULT

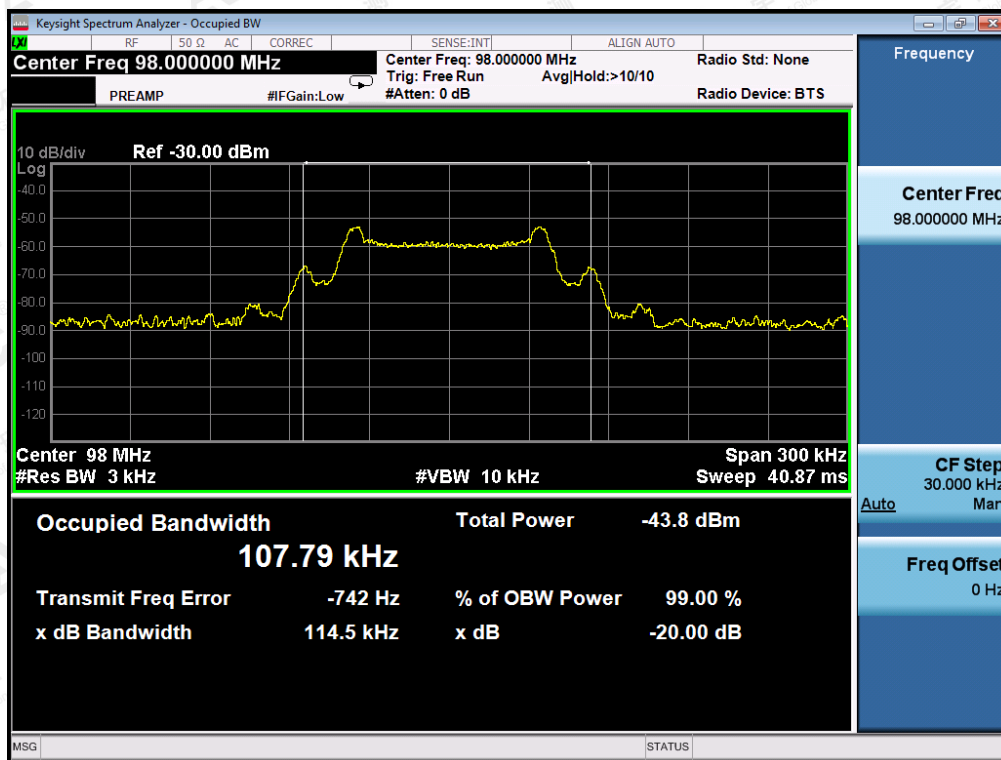
Channel	Channel Frequency(MHz)	-20dB bandwidth (kHz)	Limit(kHz)
Low	88.1	106.4	200
Middle	98.0	114.5	200
High	107.9	133.7	200

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

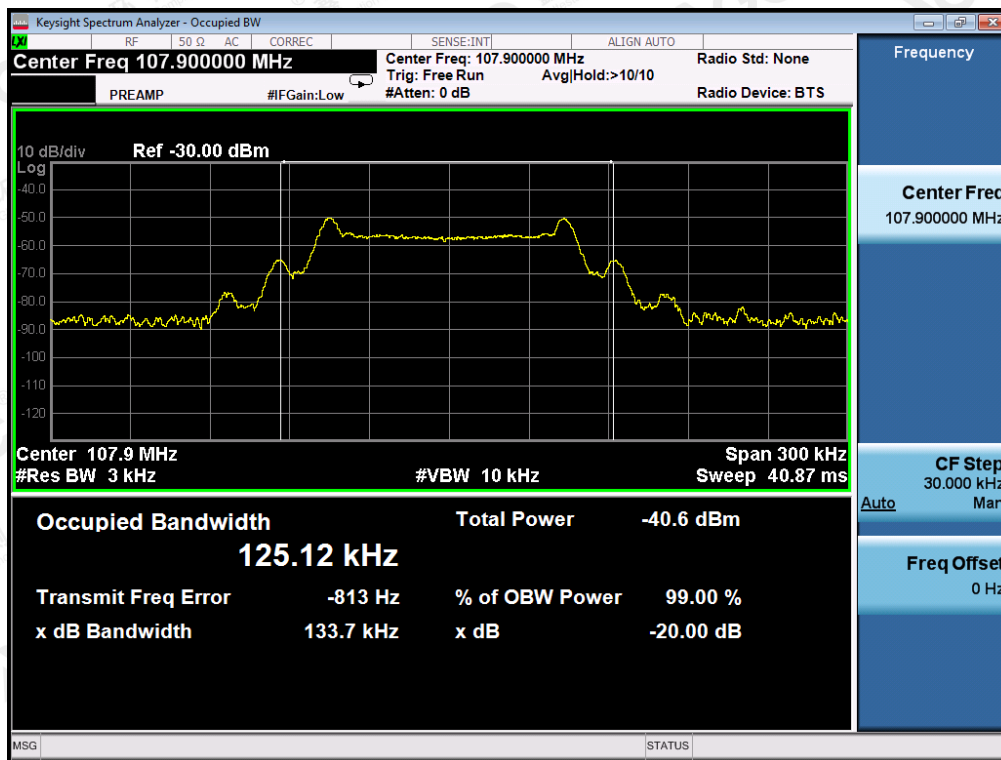


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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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9.LINE CONDUCTED EMISSION TEST

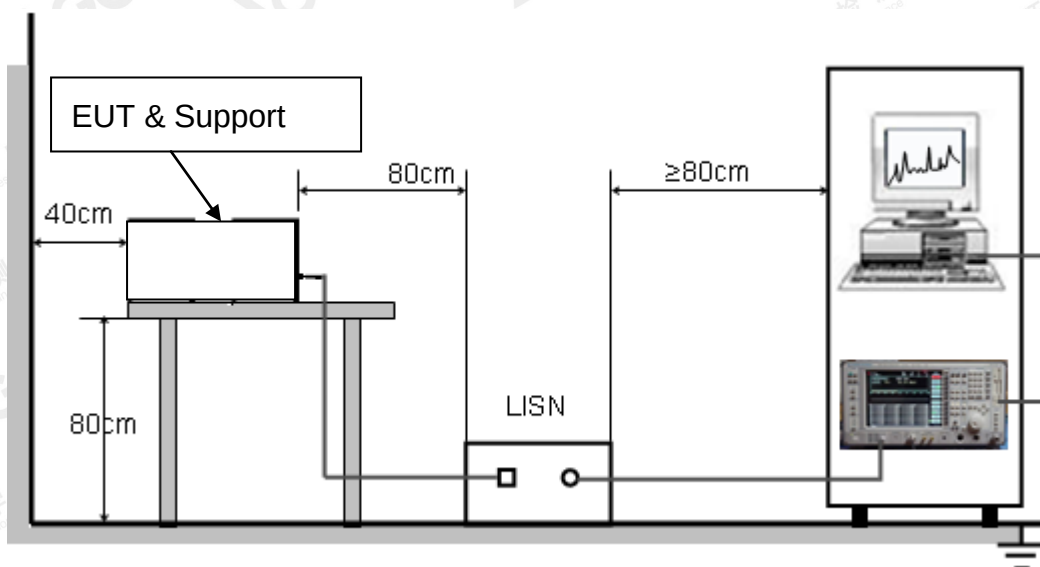
9.1. LIMITS OF LINE CONDUCTED EMISSION TEST

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

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

9.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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9.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipments received AC120V/60Hz power from a LISN, if any.
5. The EUT received DC 15V power from adapter which received AC120V/60Hz power from a LISN.
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

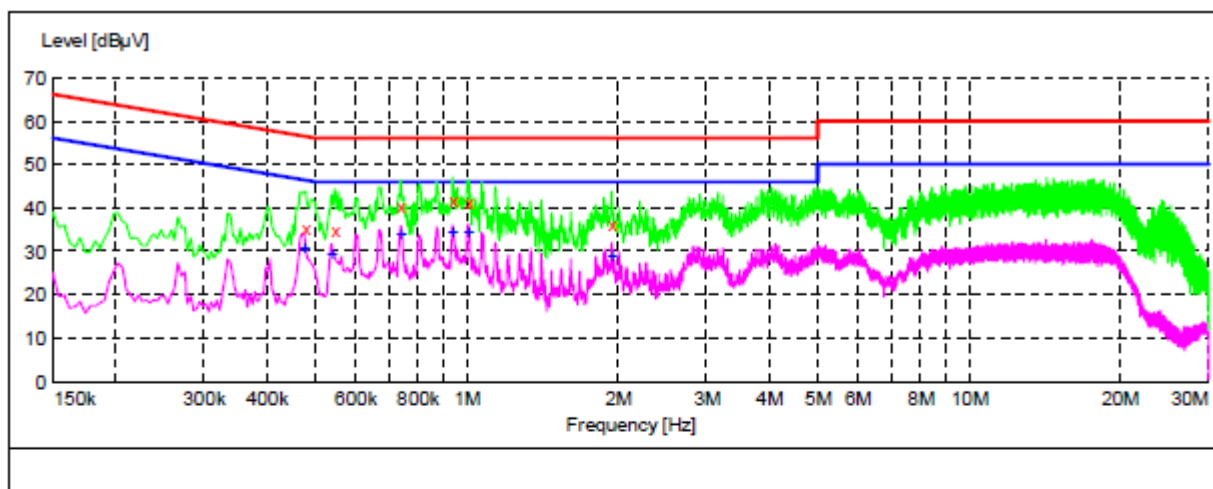
9.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

3. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported on the Summary Data page.

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9.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT: "TEST_f1n"

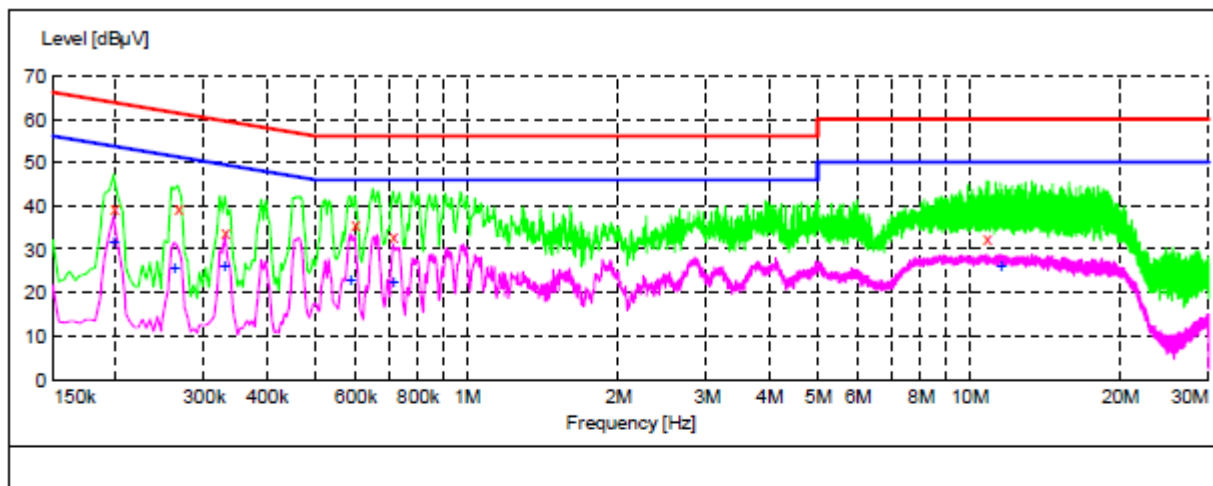
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.478000	35.30	10.3	56	21.1	QP	L1	FLO
0.546000	34.80	10.3	56	21.2	QP	L1	FLO
0.738000	40.50	10.3	56	15.5	QP	L1	FLO
0.938000	41.60	10.4	56	14.4	QP	L1	FLO
1.006000	41.30	10.4	56	14.7	QP	L1	FLO
1.942000	36.30	10.4	56	19.7	QP	L1	FLO

MEASUREMENT RESULT: "TEST_f1n2"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.474000	30.60	10.3	46	15.8	AV	L1	FLO
0.538000	29.60	10.3	46	16.4	AV	L1	FLO
0.738000	33.90	10.3	46	12.1	AV	L1	FLO
0.938000	34.50	10.4	46	11.5	AV	L1	FLO
1.006000	34.40	10.4	46	11.6	AV	L1	FLO
1.942000	28.80	10.4	46	17.2	AV	L1	FLO

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Line Conducted Emission Test Line 2-N



MEASUREMENT RESULT: "TEST_f1n"

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.198000	39.70	10.3	64	24.0	QP	N	FLO
0.266000	39.60	10.2	61	21.6	QP	N	FLO
0.330000	33.80	10.2	60	25.7	QP	N	FLO
0.598000	35.90	10.3	56	20.1	QP	N	FLO
0.714000	33.00	10.3	56	23.0	QP	N	FLO
10.846000	32.70	10.8	60	27.3	QP	N	FLO

MEASUREMENT RESULT: "TEST_f1n2"

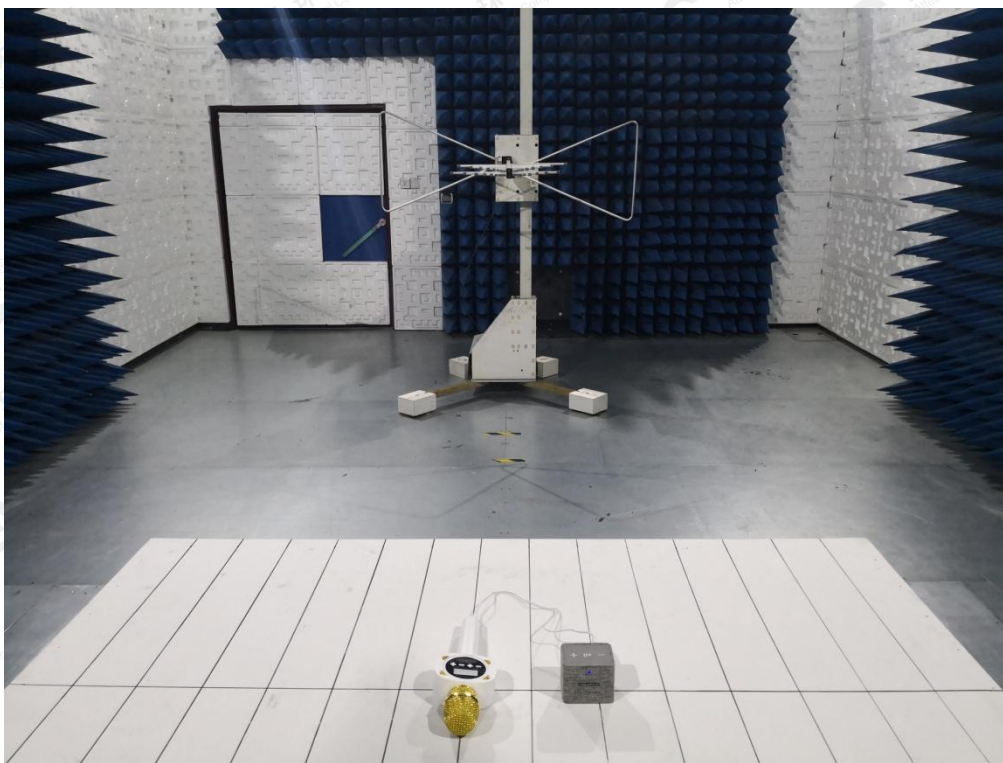
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.198000	31.60	10.3	54	22.1	AV	N	FLO
0.262000	25.50	10.2	51	25.9	AV	N	FLO
0.330000	26.40	10.2	50	23.1	AV	N	FLO
0.586000	22.90	10.3	46	23.1	AV	N	FLO
0.714000	22.30	10.3	46	23.7	AV	N	FLO
11.578000	26.20	10.8	50	23.8	AV	N	FLO

RESULT: PASS

Note: All the test modes had been tested, the mode 1 was the worst case. Only the data of the worst case would be record in this test report.

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP
RADIATED EMISSION TEST SETUP BELOW 1G



CONDUCTED EMISSION TEST SETUP



----END OF REPORT----

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