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Report No.: 1412RSU02201
Report Version: V02
Issue Date: 01-06-2015

MEASUREMENT REPORT

FCC PART 15.239

FCC ID:	2ABYI102
APPLICANT:	ShenZhen ASICER Electronics Co., LTD.

Application Type:	Certification
Product:	Microphone
Model No.:	102, 101, 011 Vocopro SHARE
Brand Name:	Hifier, Vocopro
FCC Classification:	Part 15 Low Power Communication Device Transmitter (DXX)
FCC Rule Part(s):	Part 15.239
Test Procedure(s):	ANSI C63.10-2009
Test Date:	Dec. 22 ~ 26, 2014

Reviewed By : Robin Wu
(Robin Wu)

Approved By : Marlin Chen
(Marlin Chen)

The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2009. Test results reported herein relate only to the item(s) tested.

Revision History

Report No.	Version	Description	Issue Date
1412RSU02201	Rev. 01	Initial report	12-26-2014
1412RSU02201	Rev. 02	Update the product name and brand name	01-06-2015

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§2.1033 General Information

Applicant:	ShenZhen ASICER Electronics Co., LTD.
Applicant Address:	NO.120 TengFeng Road, Third Industrial Zone Of FengHuang, FuYong Street, Bao'an, Shenzhen, China
Manufacturer:	ShenZhen ASICER Electronics Co., LTD.
Manufacturer Address:	NO.120 TengFeng Road, Third Industrial Zone Of FengHuang, FuYong Street, Bao'an, Shenzhen, China
Test Site:	MRT Technology (Suzhou) Co., Ltd
Test Site Address:	D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China
MRT Registration No.:	809388
FCC Rule Part(s):	Part 15.239
Model No.	102, 101, 011 Vocopro SHARE
FCC ID:	2ABYI102
Test Device Serial No.:	N/A ☐ Production ☒ Pre-Production ☐ Engineering
FCC Classification:	Part 15 Low Power Communication Device Transmitter (DXX)

Test Facility / Accreditations

Measurements were performed at MRT Laboratory located in Tian'edang Rd., Suzhou, China.

- **MRT facility is a FCC registered (MRT Reg. No. 809388) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules.**
- **MRT facility is an IC registered (MRT Reg. No. 11384A-1) test laboratory with the site description on file at Industry Canada.**
- **MRT facility is a VCCI registered (R-4179, G-814, C-4664, T-2206) test laboratory with the site description on file at VCCI Council.**
- **MRT Lab is accredited to ISO 17025 by the American Association for Laboratory Accreditation (A2LA) under the American Association for Laboratory Accreditation Program (A2LA Cert. No. 3628.01) in EMC, Telecommunications and Radio testing for FCC, Industry Canada, EU and TELEC Rules.**

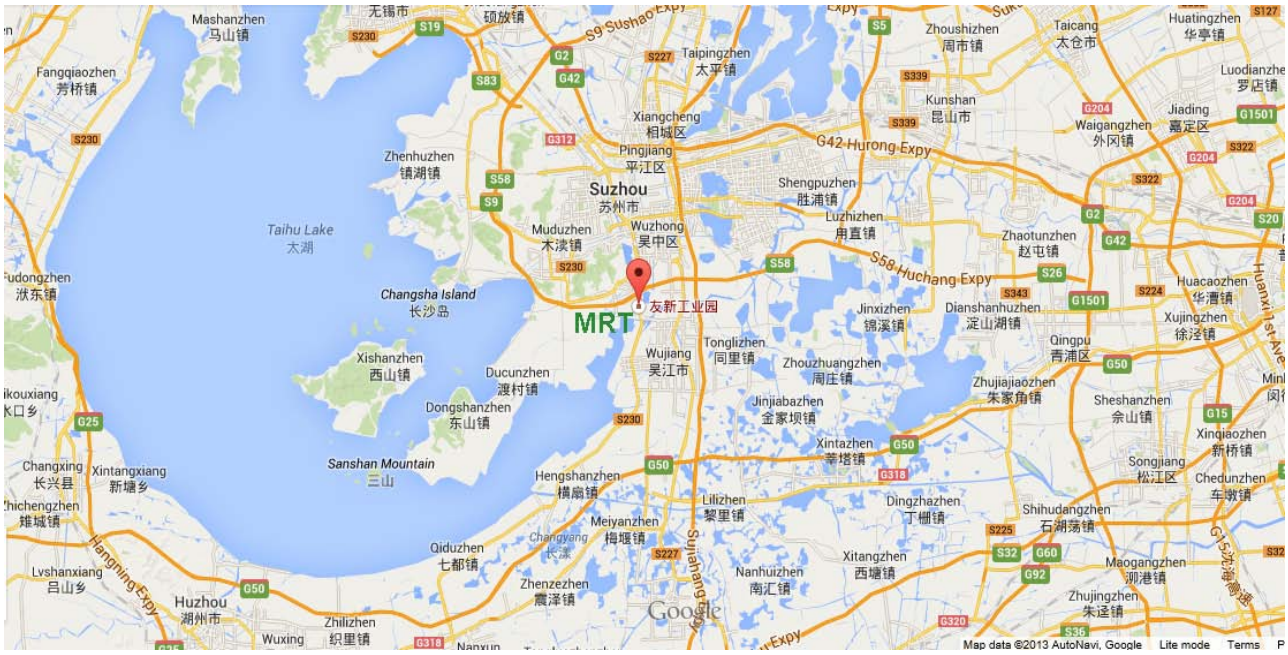
1. INTRODUCTION

1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Industry Canada Certification and Engineering Bureau.

1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taihu Lake. These measurement tests were conducted at the MRT Technology (Suzhou) Co., Ltd. Facility located at D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4-2009 on September 30, 2013.



2. PRODUCT INFORMATION

2.1. Equipment Description

Product Name	Microphone
Model No.	102, 101, 011 Vocopro SHARE
Frequency Range	88.1 ~ 107.9 MHz
Type of modulation	FM
Antenna Type	Integral Antenna
Antenna Gain	0dBi
Device Category	Fixed Device

Note: The difference of models is for different marketing requirement.

2.2. Test Standards

The following report is prepared on behalf of the ShenZhen ASICER Electronics Co., LTD. in accordance with FCC Part 15, Subpart C, and section 15.239, 15.203, 15.205 and 15.209 of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC Part 15, Subpart C, and section 15.239, 15.203, 15.205 and 15.209 of the Federal Communication Commissions rules.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which results in lowering the emission/immunity, should be checked to ensure compliance has been maintained.

2.3. Test Methodology

The measurement procedures described in the American National Standard for Testing Unlicensed Wireless Devices (ANSI C63.10-2009).

Deviation from measurement procedure…….....None

2.4. EUT Setup and Test Mode

The EUT was operated at continuous transmitting mode that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List		
Test Mode	Description	Remark
Mode 1	Transmitting	With modulation

2.5. Description of Support Units

The EUT has been tested with associated equipment below:

Description	Manufacturer	Model No.
Adapter	Supply by MRT	HSU50600F

3. ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section."

- The antenna of the Microphone is **permanently attached.**
- There are no provisions for connection to an external antenna.

Conclusion:

The **Microphone FCC ID: 2ABYI102** unit complies with the requirement of §15.203.

4. TEST EQUIPMENT CALIBRATION DATE

Radiated Emission

Instrument	Manufacturer	Type No.	Serial No.	Cali. Interval	Cal. Due. Date
EMI Test Receiver	R&S	ESR7	101209	1 year	2015/11/07
TRILOG Antenna	Schwarzbeck	VULB9162	9162-047	1 year	2015/11/08
Temperature/Humidity Meter	Anymetre	TH101B	AC1-01	1 year	2015/11/14

Conducted Emissions

Instrument	Manufacturer	Type No.	Serial No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR7	101209	1 year	2015/11/07
Two-Line V-Network	R&S	ENV216	101683	1 year	2015/11/07
Two-Line V-Network	R&S	ENV216	101684	1 year	2015/11/07
Temperature/ Meter Humidity	Anymetre	TH101B	SR2-01	1 year	2015/11/14

5. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.

AC Conducted Emission Measurement
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 150kHz~30MHz: ± 3.46dB
Radiated Emission Measurement
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 9kHz ~ 1GHz: ± 4.18dB

6. TEST RESULT

6.1. Summary

Product Name: **Microphone**

FCC ID: **2ABYI102**

FCC Part Section(s)	Test Description	Test Condition	Test Result
15.239(a)	Occupied Bandwidth	Radiated	Pass
15.239(b)	Fundamental Radiated Emissions		Pass
15.239(c) 15.209, 15.205	Spurious Radiated Emissions and Band-edge		Pass
15.207	Conducted Emissions	Line Conducted	Pass

Notes:

1) All modes of operation and data rates were investigated. For radiated emission test, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst case emissions.
2) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.

6.2. Occupied Bandwidth

6.2.1. Standard Applicable

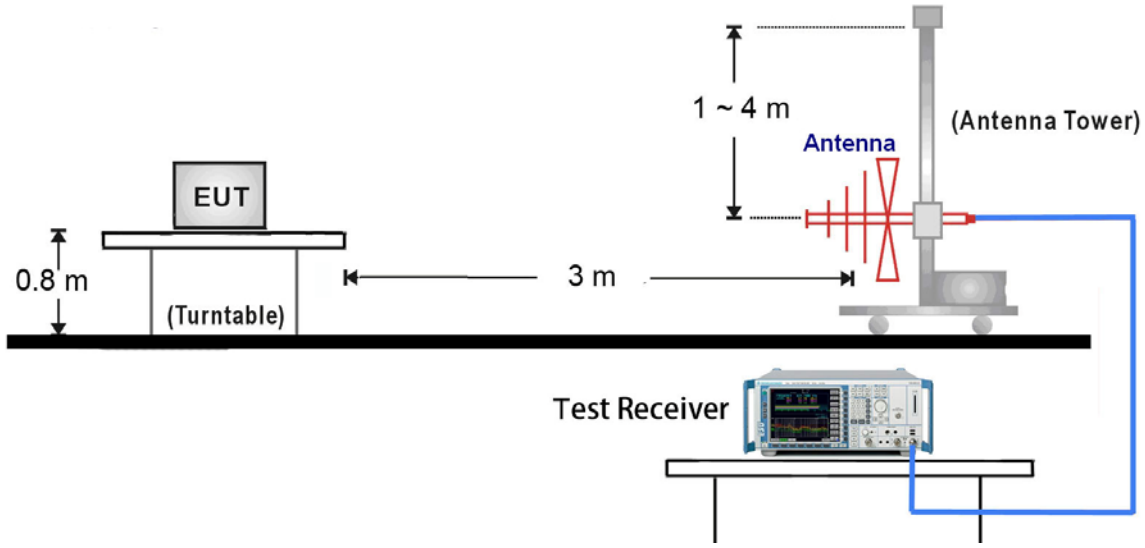
Emissions from the intentional radiator shall be confined within a band 200 kHz wide centered on the operating frequency. The 200 kHz band shall lie wholly within the frequency range of 88-108MHz.

6.2.2. Test Procedure

1. Analyzer was set to the center frequency under investigation
2. Set RBW = 3 kHz
3. VBW ≥ 3 × RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. Allow the trace was allowed to stabilize

6.2.3. Test Setup

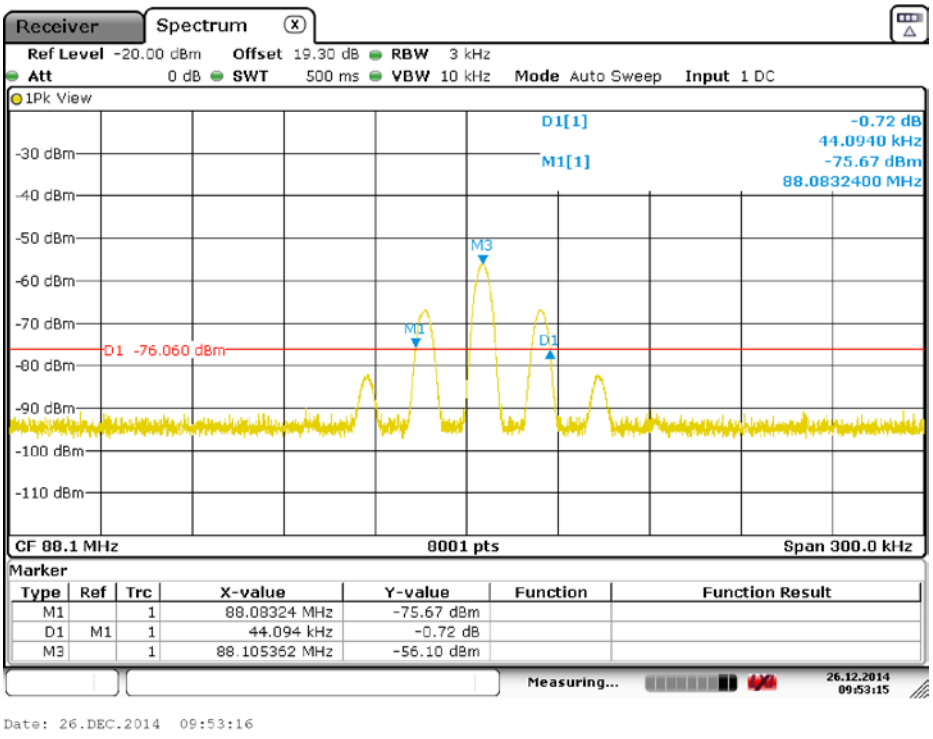
30MHz ~ 1GHz Test Setup:



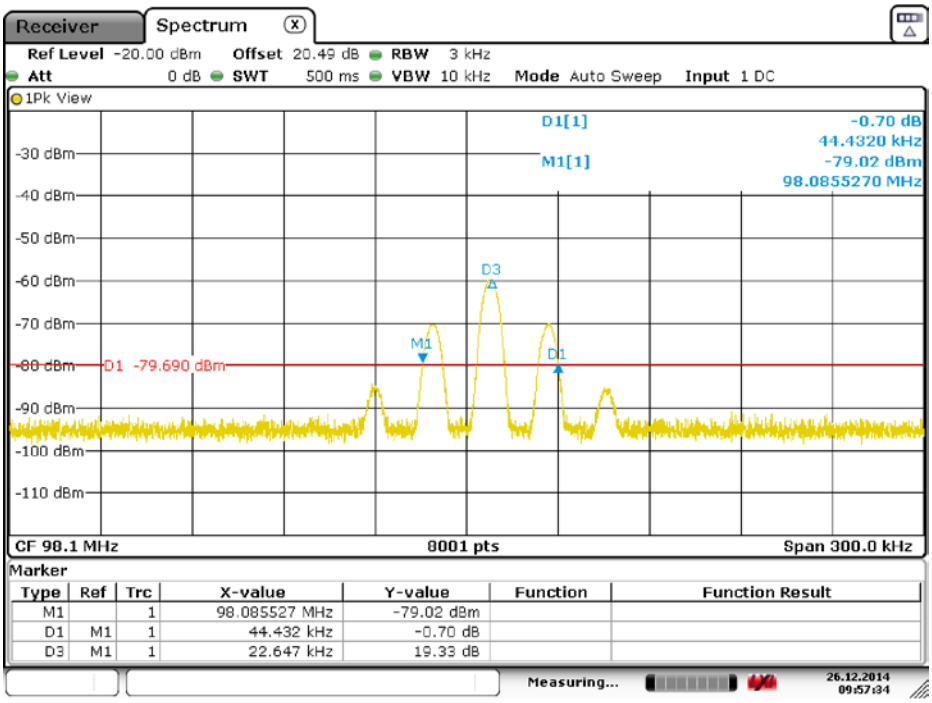
6.2.4. Test Results

Test Frequency (MHz)	20dB Bandwidth (kHz)	Limit (kHz)	Result
88.1	44.094	200	Pass
98.1	44.432	200	Pass
107.9	45.332	200	Pass

Occupied Bandwidth – 88.1MHz

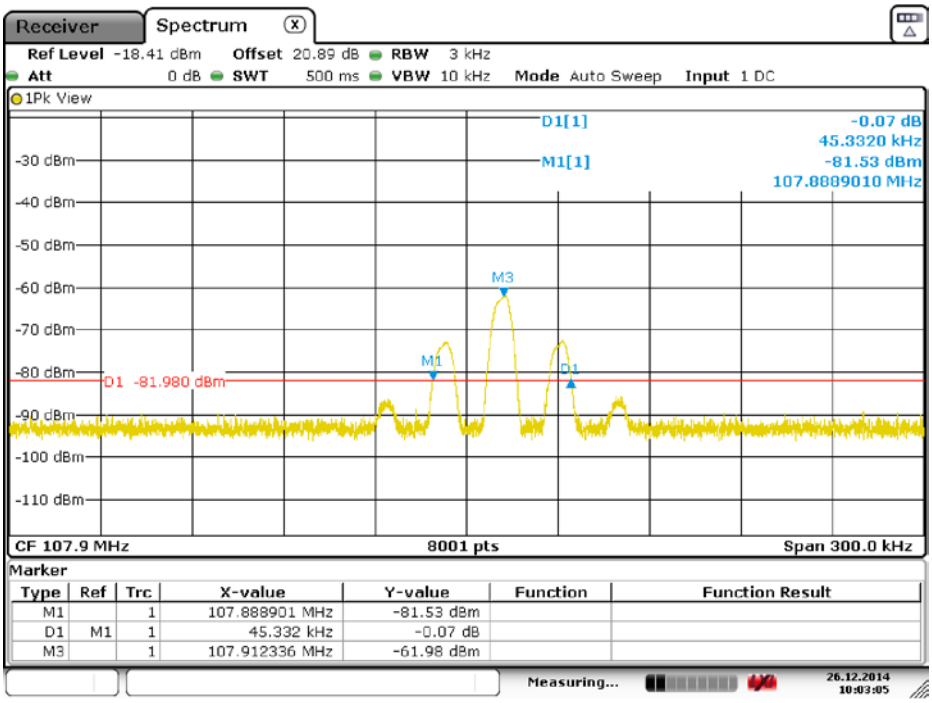


Occupied Bandwidth – 98.1MHz



Date: 26.DEC.2014 09:57:34

Occupied Bandwidth – 107.9MHz



Date: 26.DEC.2014 10:03:06

6.3. Fundamental Radiated Emission

6.3.1. Standard Applicable

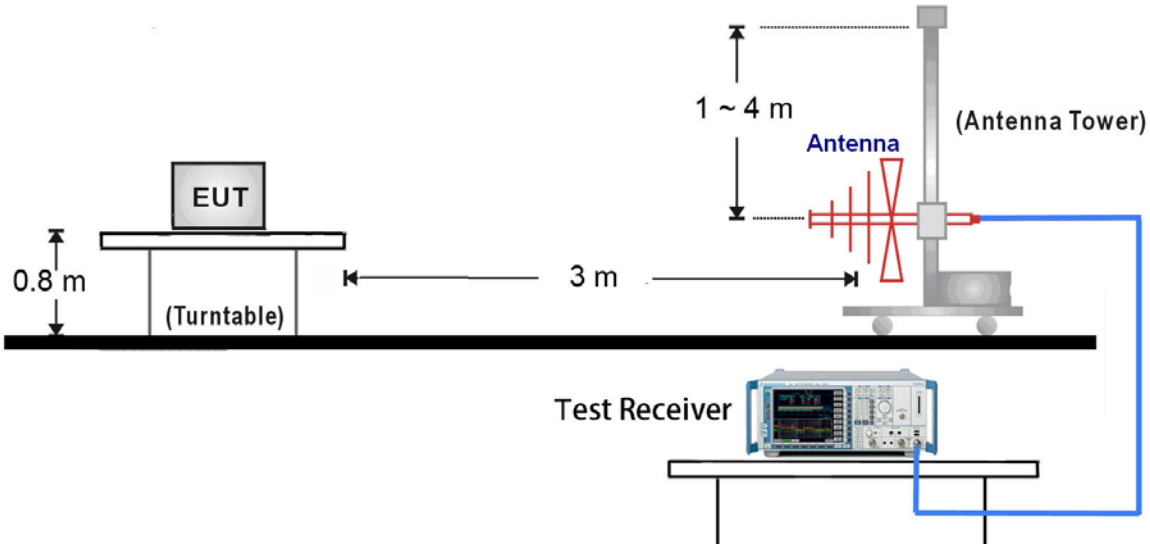
The field strength of any emissions within the permitted 200 kHz band shall not exceed 250 microvolts/meter at 3 meters. The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply.

Frequency of Emission (MHz)	Field Strength of fundamental (dBuV/m)	
88 - 108	Peak	Average
	68	48

6.3.2. Test Procedure

The setup of EUT is according with per ANSI C63.10-2009 measurement procedure. The specification used was with the FCC Part 15.239(b).

6.3.3. Test Setup



6.3.4. Test Result

Fundamental Radiated Emission (Worst Position - Y Axis)

Test Frequency (MHz)	Reading Level (dBuV)	Factor (dB)	Measured Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Result	Detector	Polarization
88.1	22.6	10.7	33.3	68	-34.7	Pass	Peak	Horizontal
	20.4	10.7	31.1	48	-16.9	Pass	Average	Horizontal
	32.5	10.7	43.2	68	-24.8	Pass	Peak	Vertical
	30.9	10.7	41.6	48	-6.4	Pass	Average	Vertical
98.1	16.5	12.7	29.2	68	-38.8	Pass	Peak	Horizontal
	14.9	12.7	27.6	48	-20.4	Pass	Average	Horizontal
	28.8	12.7	41.5	68	-26.5	Pass	Peak	Vertical
	26.0	12.7	38.7	48	-9.3	Pass	Average	Vertical
107.9	16.3	13.0	29.3	68	-38.7	Pass	Peak	Horizontal
	14.8	13.0	27.8	48	-20.2	Pass	Average	Horizontal
	22.3	13.0	35.3	68	-32.7	Pass	Peak	Vertical
	20.4	13.0	33.4	48	-14.6	Pass	Average	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

6.4. Spurious Radiated Emissions and Band-edge

6.4.1. Standard Applicable

According to FCC 15.239(c), the field strength of any emissions radiated on any frequency outside of the specified 200 kHz band shall not exceed the general radiated emission limits in §15.209.
All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

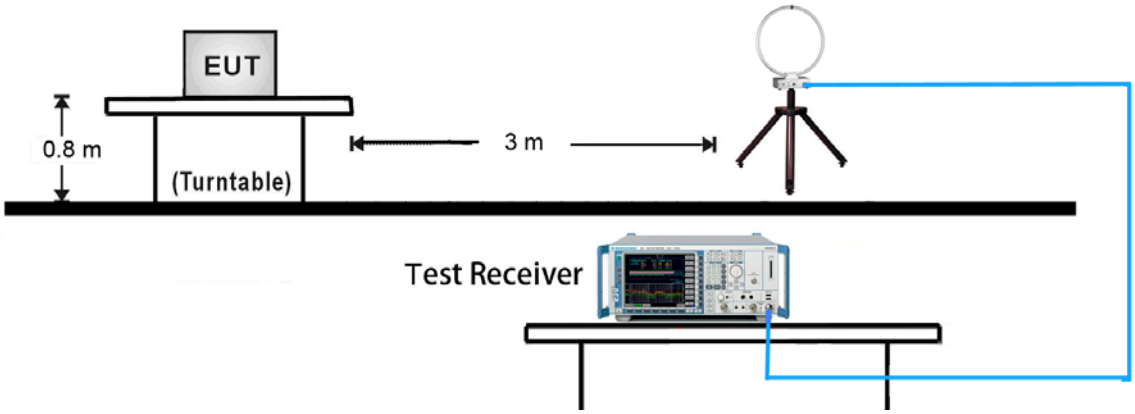
FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [V/m]	Measured Distance [Meters]
0.009 – 0.490	2400/F (kHz)	300
0.490 – 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

6.4.2. Test Procedure

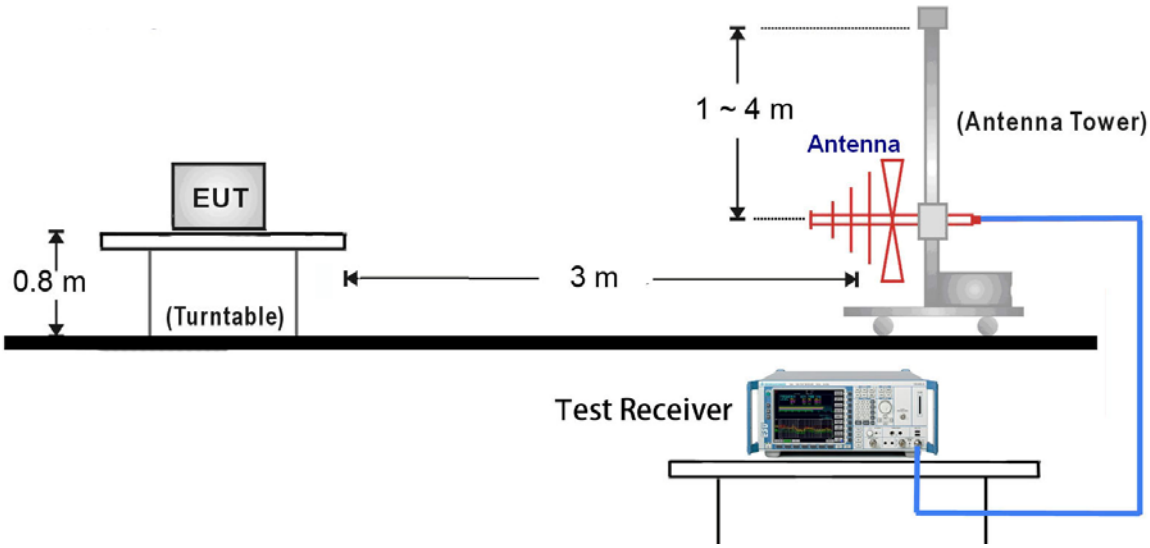
The setup of EUT is according with per ANSI C63.10-2009 measurement procedure. The specification used was with the FCC Part 15.239(c) and FCC Part 15.209 Limit.

6.4.3. Test Setup

9kHz ~ 30MHz Test Setup:



30MHz ~ 1GHz Test Setup:



6.4.4. Test Result

Spurious Radiated Emission (Worst Position - Y Axis)

Frequency (MHz)	Reading Level (dBuV)	Factor (dB)	Measured Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Result	Detector	Polarization
TX 88.1MHz								
440.3	25.8	17.2	43.0	46.0	-3.0	Pass	QP	Horizontal
528.6	25.3	18.7	44.0	46.0	-2.0	Pass	QP	Horizontal
616.9	24.1	20.2	44.3	46.0	-1.7	Pass	QP	Horizontal
705.1	22.5	21.5	44.0	46.0	-2.0	Pass	QP	Horizontal
792.9	21.9	22.6	44.5	46.0	-1.5	Pass	QP	Horizontal
881.0	14.9	23.8	38.7	46.0	-7.3	Pass	QP	Horizontal
176.2	31.6	10.6	42.2	43.5	-1.3	Pass	QP	Vertical
440.5	26.5	17.2	43.7	46.0	-2.3	Pass	QP	Vertical
528.6	26.1	18.7	44.8	46.0	-1.2	Pass	QP	Vertical
616.7	24.4	20.2	44.6	46.0	-1.4	Pass	QP	Vertical
704.8	20.8	21.5	42.3	46.0	-3.7	Pass	QP	Vertical
792.8	18.0	22.6	40.6	46.0	-5.4	Pass	QP	Vertical

Note 1: Testing is carried out with frequency rang 9 kHz to the tenth harmonics. Emissions attenuated more than 20dB below the limit are not reported.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Frequency (MHz)	Reading Level (dBuV)	Factor (dB)	Measured Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Result	Detector	Polarization
TX 98.1MHz								
196.2	24.4	12.1	36.5	43.5	-7.0	Pass	QP	Horizontal
294.3	20.3	14.4	34.7	46.0	-11.3	Pass	QP	Horizontal
392.4	23.7	16.5	40.2	46.0	-5.8	Pass	QP	Horizontal
490.5	12.6	18.1	30.7	46.0	-15.3	Pass	QP	Horizontal
588.7	16.2	19.8	36.0	46.0	-10.0	Pass	QP	Horizontal
686.8	16.4	21.2	37.6	46.0	-8.4	Pass	QP	Horizontal
196.2	27.2	12.1	39.3	43.5	-4.2	Pass	QP	Vertical
294.4	20.0	14.4	34.4	46.0	-11.6	Pass	QP	Vertical
392.4	24.3	16.5	40.8	46.0	-5.2	Pass	QP	Vertical
490.5	22.7	18.1	40.8	46.0	-5.2	Pass	QP	Vertical
588.7	22.4	19.8	42.2	46.0	-3.8	Pass	QP	Vertical
686.8	18.5	21.2	39.7	46.0	-6.3	Pass	QP	Vertical

Note 1: Testing is carried out with frequency rang 9 kHz to the tenth harmonics. Emissions attenuated more than 20dB below the limit are not reported.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Frequency (MHz)	Reading Level (dBuV)	Factor (dB)	Measured Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Result	Detector	Polarization
TX 107.9MHz								
215.9	11.6	12.5	24.1	43.5	-19.4	Pass	QP	Horizontal
323.7	15.7	15.1	30.8	46.0	-15.2	Pass	QP	Horizontal
431.7	20.7	17.1	37.8	46.0	-8.2	Pass	QP	Horizontal
539.5	10.8	18.8	29.6	46.0	-16.4	Pass	QP	Horizontal
647.5	12.9	20.5	33.4	46.0	-12.6	Pass	QP	Horizontal
863.3	10.0	23.7	33.7	46.0	-12.3	Pass	QP	Horizontal
215.8	11.7	12.5	24.2	43.5	-19.3	Pass	QP	Vertical
323.7	22.2	15.1	37.3	46.0	-8.7	Pass	QP	Vertical
431.7	26.1	17.1	43.2	46.0	-2.8	Pass	QP	Vertical
539.5	15.5	18.8	34.3	46.0	-11.7	Pass	QP	Vertical
647.5	18.9	20.5	39.4	46.0	-6.6	Pass	QP	Vertical
755.4	9.6	22.2	31.8	46.0	-14.2	Pass	QP	Vertical

Note 1: Testing is carried out with frequency rang 9 kHz to the tenth harmonics. Emissions attenuated more than 20dB below the limit are not reported.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

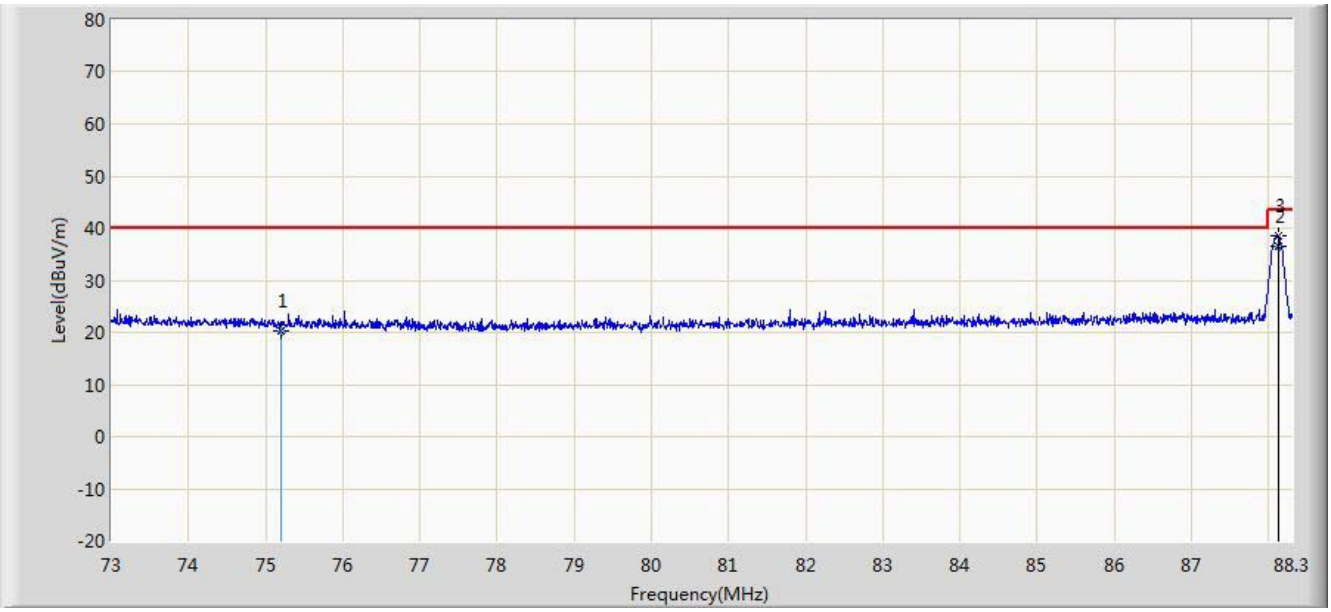
Radiated Band-Edge (Worst Position - Y Axis)

Frequency (MHz)	Reading Level (dBuV)	Factor (dB)	Measured Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Result	Detector	Polarization
TX 88.1MHz								
75.2	11.8	9.7	21.5	40.0	-18.5	Pass	QP	Horizontal
75.2	12.2	9.7	21.9	40.0	-18.1	Pass	QP	Vertical
TX 107.9MHz								
108.0	16.3	13.0	29.3	43.5	-14.2	Pass	QP	Horizontal
108.0	21.6	13.0	34.6	43.5	-8.9	Pass	QP	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2014/12/25 - 15:55
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: VULB9162_0.03-8GHz	Polarity: Horizontal
EUT: Microphone	Power: By Battery
Note: Transmit at channel 88.1MHz Y Axis	

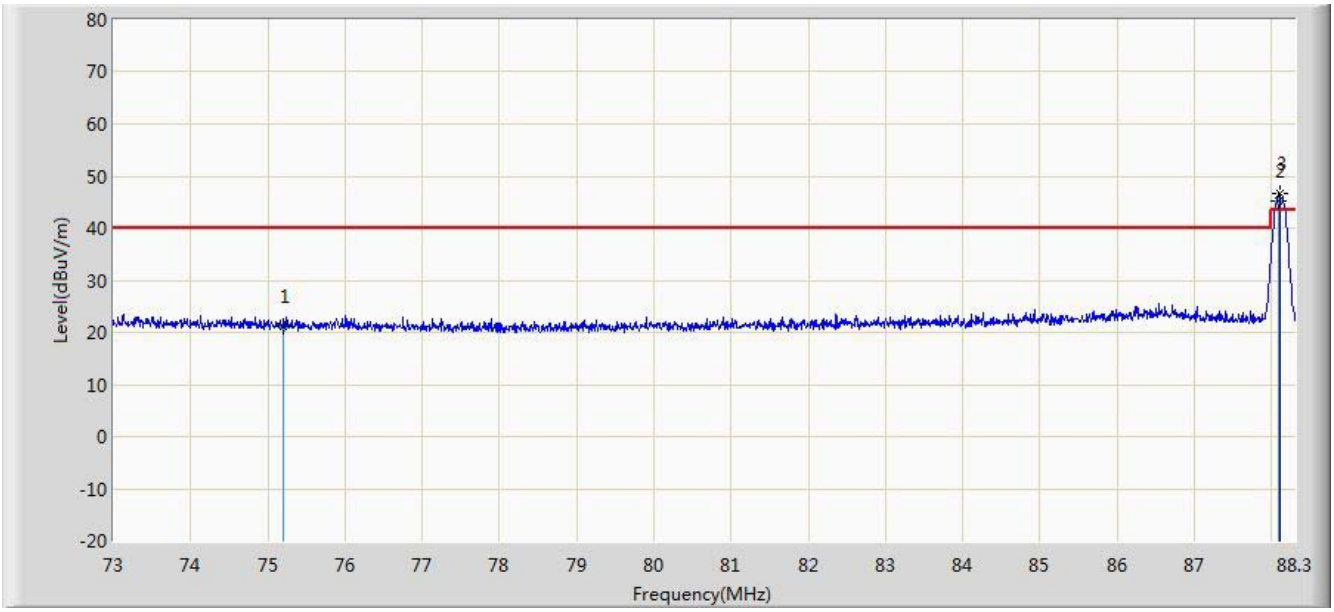


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			75.200	20.346	10.680	-19.654	40.000	9.666	QP
2			88.122	36.649	25.900	N/A	N/A	10.749	AV
3		*	88.124	38.433	27.684	N/A	N/A	10.749	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: AC1	Time: 2014/12/25 - 16:37
Limit: FCC_Part15.209_RE(3m)	Engineer: Milo Li
Probe: VULB9162_0.03-8GHz	Polarity: Vertical
EUT: Microphone	Power: By Battery
Note: Transmit at channel 88.1MHz Y Axis	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			75.200	21.021	11.355	-18.979	40.000	9.666	QP
2			88.093	45.141	34.400	N/A	N/A	10.742	AV
3		*	88.116	46.645	35.898	N/A	N/A	10.747	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

6.5. AC Conducted Emissions Measurement

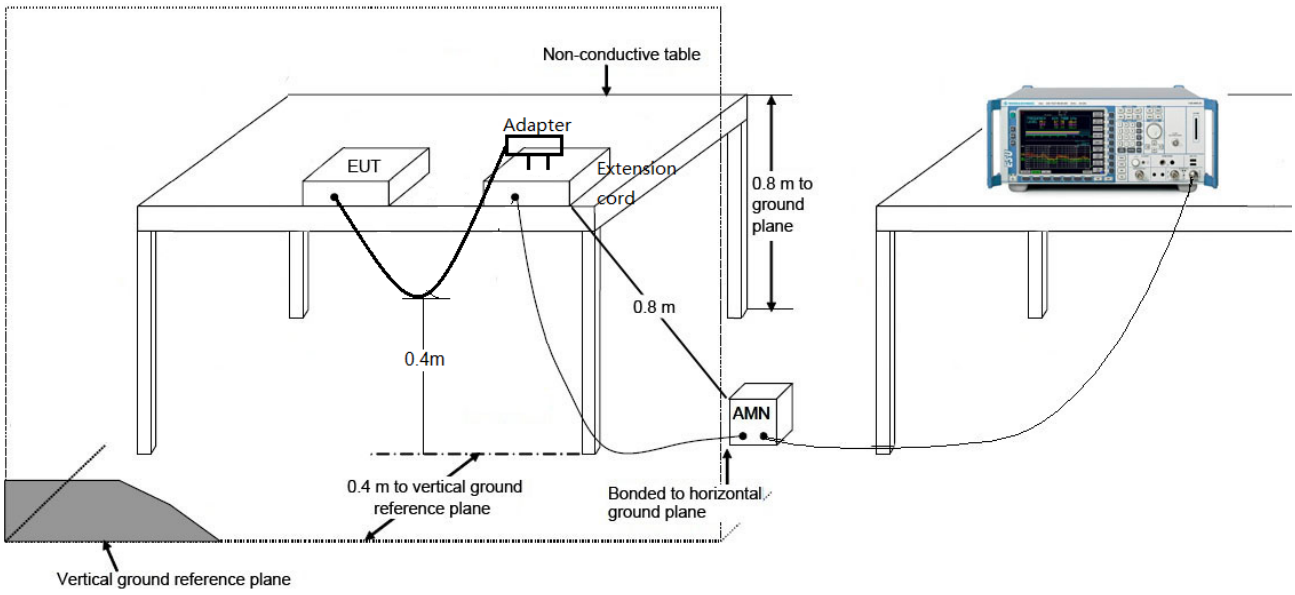
6.5.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 – 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

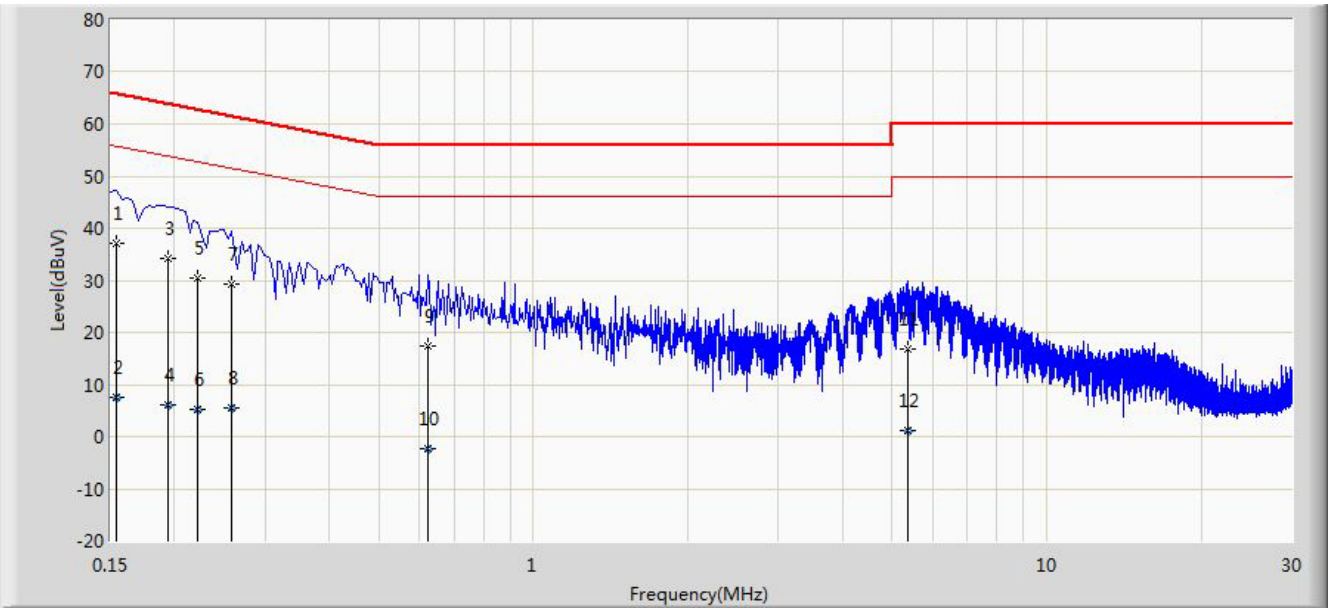
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

6.5.2. Test Setup



6.5.3. Test Result

Site: SR2	Time: 2014/12/24 - 13:58
Limit: FCC_Part15.207_CE_AC Power	Engineer: Roy Cheng
Probe: ENV216_101683_Filter On	Polarity: Line
EUT: Microphone	Power: AC 120V/60Hz
Note: Mode 1	

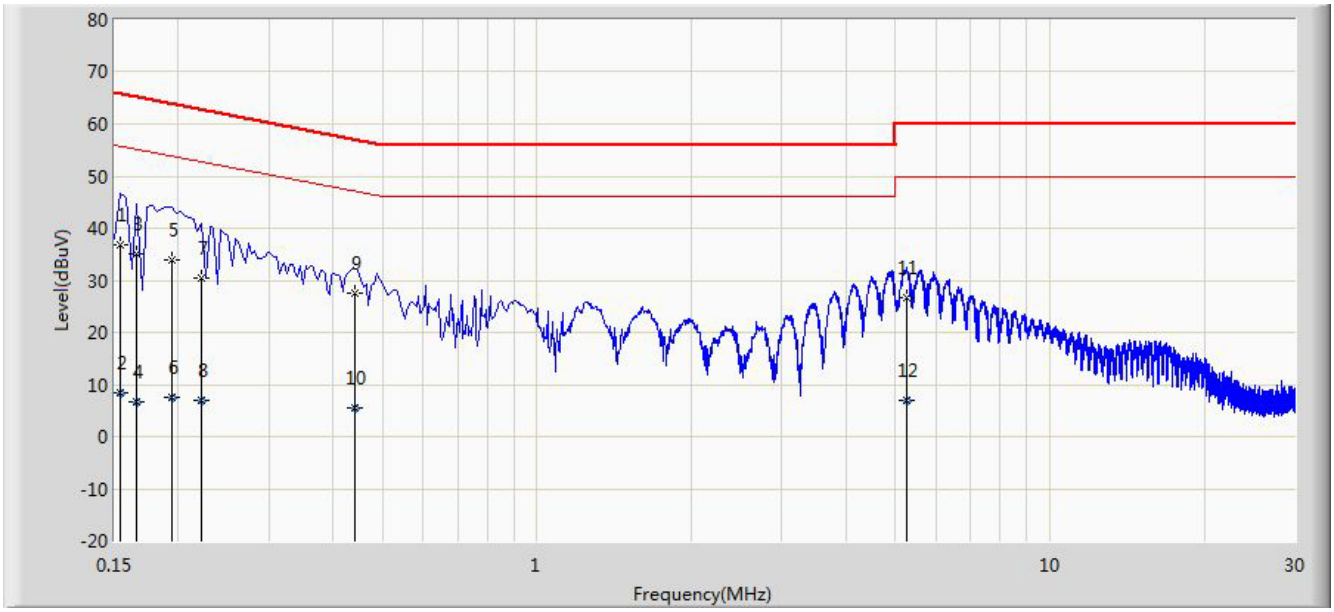


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		*	0.154	37.125	26.386	-28.656	65.781	10.740	QP
2			0.154	7.624	-3.115	-48.157	55.781	10.740	AV
3			0.194	34.268	24.251	-29.596	63.864	10.017	QP
4			0.194	6.100	-3.916	-47.763	53.864	10.017	AV
5			0.222	30.534	20.594	-32.209	62.744	9.941	QP
6			0.222	5.274	-4.667	-47.470	52.744	9.941	AV
7			0.258	29.160	19.190	-32.335	61.496	9.970	QP
8			0.258	5.441	-4.530	-46.055	51.496	9.970	AV
9			0.622	17.358	7.255	-38.642	56.000	10.103	QP
10			0.622	-2.383	-12.487	-48.383	46.000	10.103	AV
11			5.358	16.896	6.834	-43.104	60.000	10.062	QP
12			5.358	1.226	-8.836	-48.774	50.000	10.062	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Site: SR2	Time: 2014/12/24 - 14:25
Limit: FCC_Part15.207_CE_AC Power	Engineer: Roy Cheng
Probe: ENV216_101683_Filter On	Polarity: Neutral
EUT: Microphone	Power: AC 120V/60Hz
Note: Mode 1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		*	0.154	36.803	26.087	-28.978	65.781	10.716	QP
2			0.154	8.428	-2.288	-47.353	55.781	10.716	AV
3			0.166	35.215	25.143	-29.944	65.158	10.071	QP
4			0.166	6.653	-3.418	-48.505	55.158	10.071	AV
5			0.194	33.838	23.817	-30.026	63.864	10.021	QP
6			0.194	7.612	-2.409	-46.252	53.864	10.021	AV
7			0.222	30.476	20.497	-32.267	62.744	9.980	QP
8			0.222	6.964	-3.015	-45.780	52.744	9.980	AV
9			0.442	27.581	17.437	-29.443	57.024	10.144	QP
10			0.442	5.481	-4.663	-41.543	47.024	10.144	AV
11			5.262	26.797	16.742	-33.203	60.000	10.055	QP
12			5.262	7.098	-2.957	-42.902	50.000	10.055	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

7. CONCLUSION

The data collected relate only the item(s) tested and show that the **Microphone FCC ID: 2ABYI102** is in compliance with FCC Part 15.239 of the FCC Rules.

The End