

FCC Part 74 Subpart H
Class II Permissive Change
TEST REPORT

of

E.U.T. : Plug-in UHF Wireless Audio Link Transmitter
Module
FCC ID. : NTMTX-701-F
Model No. : TX-701
Working Frequency : 514~608 MHz

for

APPLICANT : OKAYO ELECTRONICS CO., LTD.
ADDRESS : No.2, Gongye 10th Rd., Dali Dist., Taichung 41280,
Taiwan

Test Performed by

ELECTRONICS TESTING CENTER (ETC) , TAIWAN
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Report Number : 15-01-RBF-023

TEST REPORT CERTIFICATION

Applicant : OKAYO ELECTRONICS CO., LTD.
No.2, Gongye 10th Rd., Dali Dist., Taichung 41280, Taiwan

Manufacturer : OKAYO ELECTRONICS CO., LTD.
No.2, Gongye 10th Rd., Dali Dist., Taichung 41280, Taiwan

Description of EUT :

a) Type of EUT : Plug-in UHF Wireless Audio Link Transmitter Module

b) Trade Name : OKAYO

c) Model No. : TX-701

d) FCC ID : NTMTX-701-F

e) Working Frequency : 514~608 MHz

f) Power Supply : DC 12Vdc

Regulation Applied: FCC Rules and Regulations Part 74 Subpart H

I HEREBY CERTIFY THAT; The data shown in this report were made in accordance with the procedures given in ANSI C63.10-2009 and the energy emitted by the device was founded to be within the limits applicable. I assume full responsibility for accuracy and completeness of these data.

Issued Date : Feb. 26, 2015

Test Engineer : *Jiapeng Chen*
(Jiapeng Chen, Engineer)

Approve & Authorized Signer : *S. S. Liou*
S. S. Liou, Section Manager
EMC Dept. II of ELECTRONICS
TESTING CENTER, TAIWAN

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1. GENERAL INFORMATION

1.1 Product Description

- a) Type of EUT : Plug-in UHF Wireless Audio Link Transmitter Module
- b) Trade Name : OKAYO
- c) Model No. : TX-701
- d) FCC ID : NTMTX-701-F
- e) Working Frequency : Original : 520~608 MHz
New: 514~608 MHz
- f) Power Supply : DC 12Vdc
- g) Emission Designator : 59K4F3E
 $2M+2DK=2x(3kHz)+2x(26.7kHz)x1=59.4kHz$
- h) Class II permissive change description : The original and the new sample is identical and the only difference between them is the frequency range and model name. The frequency range was set via a firmware. The original frequency is 520~608 MHz, and the new one is 514~608 MHz.

1.2 Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.10-2009. Test also follow "TIA-603-C(2004)-Land Mobile FM or PM Communications Equipment Measurement and Performance Standards" and section 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, and 2.1055 of Part 2 of CFR 47.

This is a class II permissive change test report. The difference between the original and the new sample is the frequency range and model name. The original frequency is 520~608 MHz, and the new one is 514~608 MHz. Hence the channel of the lowest frequency was chosen for test.

1.3 Test Facility

The open area test site and conducted measurement facility used to collect the radiated data is located on the roof top of Building at No.34, Lin 5, Dingfu Vil., Linkou Dist., New Taipei City, Taiwan 24442, R.O.C.

This site is FCC 2.948 listed and accepted in a letter dated Jan. 29, 2014.

Registration Number: 90589

2. REQUIREMENTS OF PROVISIONS

2.1 Definition

Intentional radiator:

A device that intentionally generates and emits radio frequency energy by radiation or induction.

2.2 Frequencies Available

According to sec. 74.802 of Part 74, the following frequencies are available for low power auxiliary station :

Frequencies (MHz)	
26.100-26.480	455.000-456.000
54.000-72.000	470.000-488.000
76.000-88.000	488.000-494.000
161.625-161.775	494.000-608.000
174.000-216.000	614.000-806.000
450.000-451.000	944.000-952.000

2.3 Requirements for Radio Equipment on Certification

(1) RF Output Power

For transmitters, the power output shall be measured at the RF output terminals.

(2) Modulation Characteristics

For Voice Modulated Communication Equipment, a curve or equivalent data showing the frequency response of the audio modulating circuit over a range of 100 to 5000 Hz shall be submitted.

(3) Occupied Bandwidth

For radiotelephone transmitter, other than single sideband or independent sideband transmitter, when modulated by a 2.5kHz tone at an input level 16 dB greater than that necessary to produce 50 percent modulation.

(4) Spurious Emissions at Antenna Terminals

The radio frequency voltage or power generated within the equipment and appearing on a spurious frequency shall be checked at the equipment output terminal when properly loaded with a suitable artificial antenna.

(5) Field Strength of Spurious Emissions

Measurements shall be made to detect spurious emission that may be radiated directly from the cabinet, control circuits, power leads, or intermediate circuit elements under normal condition of installation and operation.

(6) Frequencies Tolerance

- a) The frequency stability shall be measured with variation of ambient temperature.
- b) The frequency stability shall be measured with variation of primary supply voltage.

2.4 Labeling Requirement

Each equipment for which a type acceptance application is filed on or after May 1,1981, shall bear an identification plate or label pursuant to § 2.925 (Identification of equipment) and §2.926 (FCC identifier) .

3. OUTPUT POWER MEASUREMENT

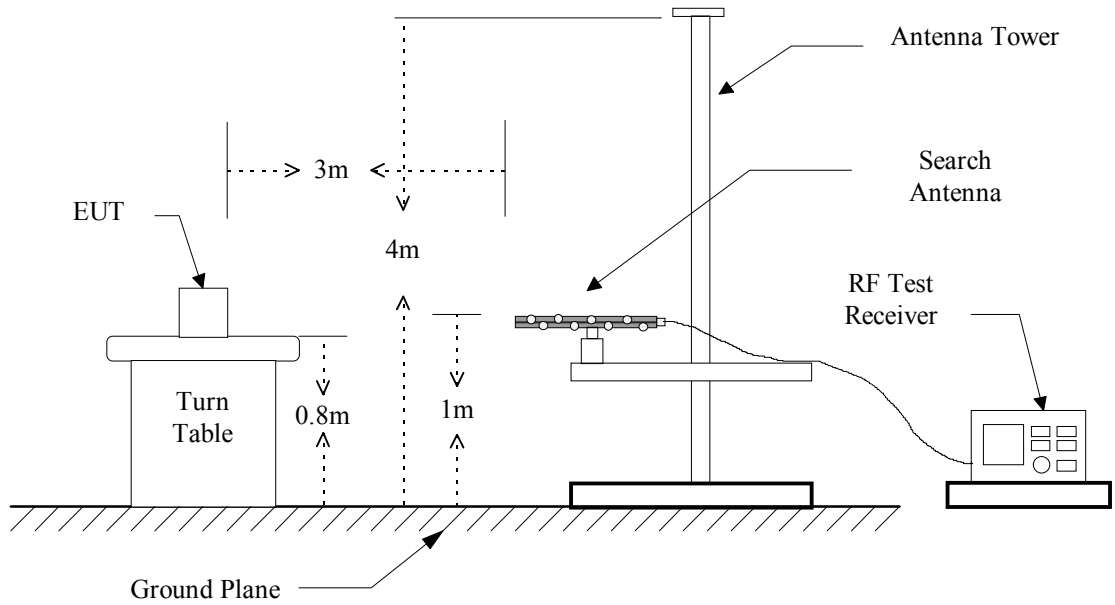
3.1 Provision Applicable

According to §74.861(e)(1)(ii), the output power shall not exceed 250 milliwatts.

3.2 Measurement Procedure

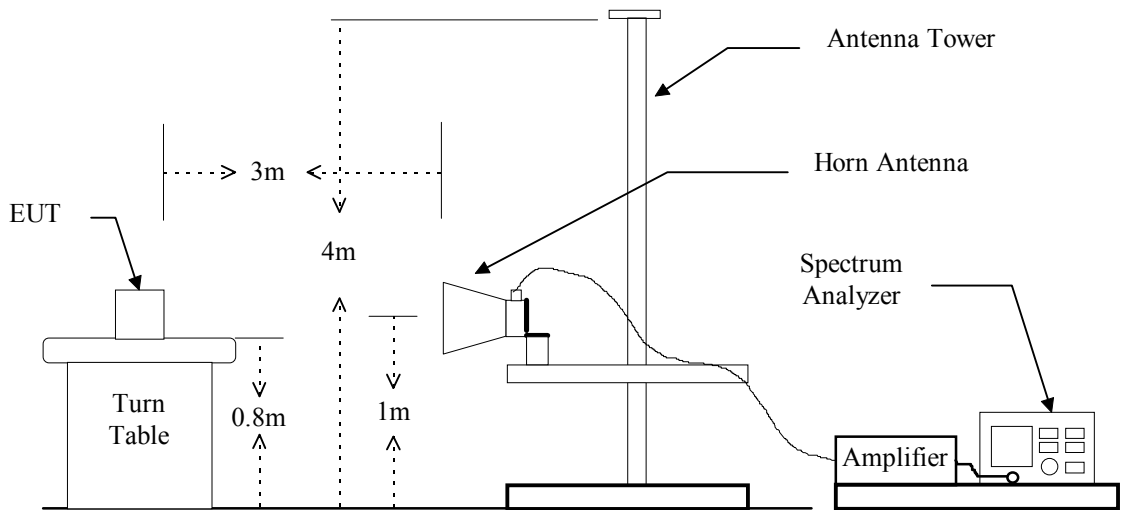
1. Setup the configuration per figure 1 and 2 for frequencies measured below and above 1 GHz respectively, adjusting the input voltage to produce the maximum power.
2. Adjust the analyzer for each frequency measured in chapter 6 on a 1 MHz frequency span and 1MHz resolution bandwidth.
3. The search antenna is to be raised and lowered over a range from 1 to 4 meters in horizontally polarized orientation. Position the highness when the highest value is indicated on spectrum analyzer, then change the orientation of EUT on test table over a range from 0 ° to 360 ° , and record the highest value indicated on spectrum analyzer as reference value.
4. Repeat step 3 until all frequencies need to be measured were complete.
5. Repeat step 4 with search antenna in vertical polarized orientations.
6. Replace the EUT with a tuned dipole antenna (horn antenna for above 1 GHz) relative to each frequency in horizontally polarized orientation and as the same polarized orientation with search antenna. Connect the tuned dipole antenna to a standard signal generator (SG) via a low loss cable. Power on the SG and tune the right frequency in measuring as well as set SG at a appreciated output level. Rise and lower the search antenna to get the highest value on spectrum analyzer, and then hold this position. Adjust the SG output to get a identical value derived from step 3 on spectrum analyzer. Record this value for result calculated.
7. Repeat step 6 until all frequencies need to be measured were complete.
8. Repeat step 7 with both dipole antenna (horn antenna for above 1 GHz) and search antenna in vertical polarized orientations.

Figure 1 : Frequencies measured below 1 GHz configuration



Note: For substitution method, replace the EUT with a tuned dipole antenna relative to each frequency and connect to a standard signal generator (SG) via a low loss cable.

Figure 2 : Frequencies measured above 1 GHz configuration



Note: For substitution method, replace the EUT with a horn antenna and connect to a standard signal generator (SG) via a low loss cable.

3.3 Test Data

1. Operated mode: TX(Monopole Antenna) Test Date : Jan. 29, 2015
 Temperature : 20 °C Humidity : 60 %

Frequency (MHz)	Meter Reading (dB μ V/m)	SG Reading (dBm)	Cable Loss (dB)	Antenna Gain	Result (dBm)	Output Power (mW)	Limit (mW)
514.100	89.7	13.20	2.0	----	11.2	13.2	250.0

2. Operated mode: TX(Dipole Antenna) Test Date : Jan. 29, 2015
 Temperature : 20 °C Humidity : 60 %

Frequency (MHz)	Meter Reading (dB μ V/m)	SG Reading (dBm)	Cable Loss (dB)	Antenna Gain	Result (dBm)	Output Power (mW)	Limit (mW)
514.100	90.4	17.60	2.0	----	15.6	36.3	250.0

3. Operated mode: TX(Directional Antenna) Test Date : Jan. 29, 2015
 Temperature : 20 °C Humidity : 60 %

Frequency (MHz)	Meter Reading (dB μ V/m)	SG Reading (dBm)	Cable Loss (dB)	Antenna Gain	Result (dBm)	Output Power (mW)	Limit (mW)
514.100	87.2	14.40	2.0	----	12.4	17.4	250.0

Note: For measured frequency below 1GHz, a tuned dipole antenna is used.

3.4 Result Calculation

Result calculation is as following :

Result = SG Reading + Cable Loss + Antenna Gain Corrected

Antenna Gain Corrected : is used for antenna other than dipole to convert radiated power to ERP.

$$\text{mW} = \log^{-1} \left[\frac{\text{Result(dBm)}}{10} \right]$$

3.5 Test Equipment

Equipment	Manufacturer	Model No.	Calibration Date	Next Cal. Date
EMI Test Receiver	Rohde & Schwarz	ESL	2014/09/26	2015/09/25
Biconical Antenna	EMCO	3110	2014/11/04	2015/11/03
Log-periodic Antenna	EMCO	3146	2014/11/04	2015/11/03
Amplifier	HP	8447D	2014/05/29	2015/05/28
Signal generator	HP	83732B	2014/10/16	2015/10/15

4. MODULATION CHARACTERISTICS

4.1 Provisions Applicable

According to § 2.1047 (a), for Voice Modulated Communication Equipment, the frequency response of the audio modulating circuit over a range of 100 to 5000 Hz shall be measured.

4.2 Measurement Method

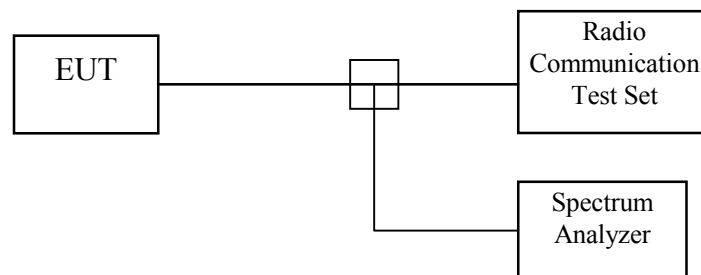
A) Modulation Limit

1. Position the EUT as shown in figure 3, adjust the audio input frequency to 100 Hz and the input level from 0V to maximum permitted input voltage with recording each carrier frequency deviation responding to respective input level.
2. Repeat step 1 with changing the input frequency for 200, 500, 1000, 3000, and 5000 Hz in sequence.

B) Frequency response of all circuits

1. Position the EUT as shown in figure 3.
2. Vary the modulating frequency from 100 Hz to 15000 Hz with constant input voltage (derived from 5.4(a) of this test report), and observe the change in output.

Figure 3 : Modulation characteristic measurement configuration



4.3 Measurement Instrument

Equipment	Manufacturer	Model No.	Calibration Date	Next Cal. Date
Communications Service Monitor	AEROFLEX	2945B	2014/05/12	2015/05/11
EMI Test Receiver	Rohde & Schwarz	ESU 40	2014/08/15	2015/08/14

4.4 Measurement Result

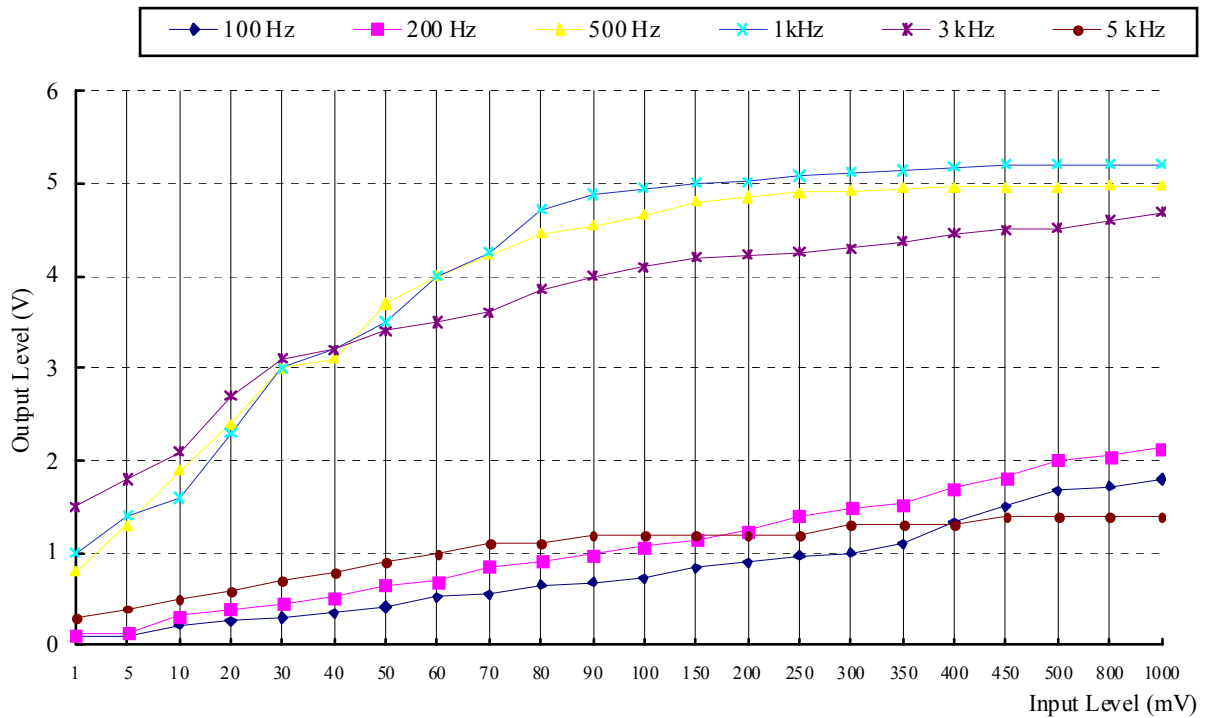
RF Frequency : 514.100MHz

Test Date : Jan. 29, 2015

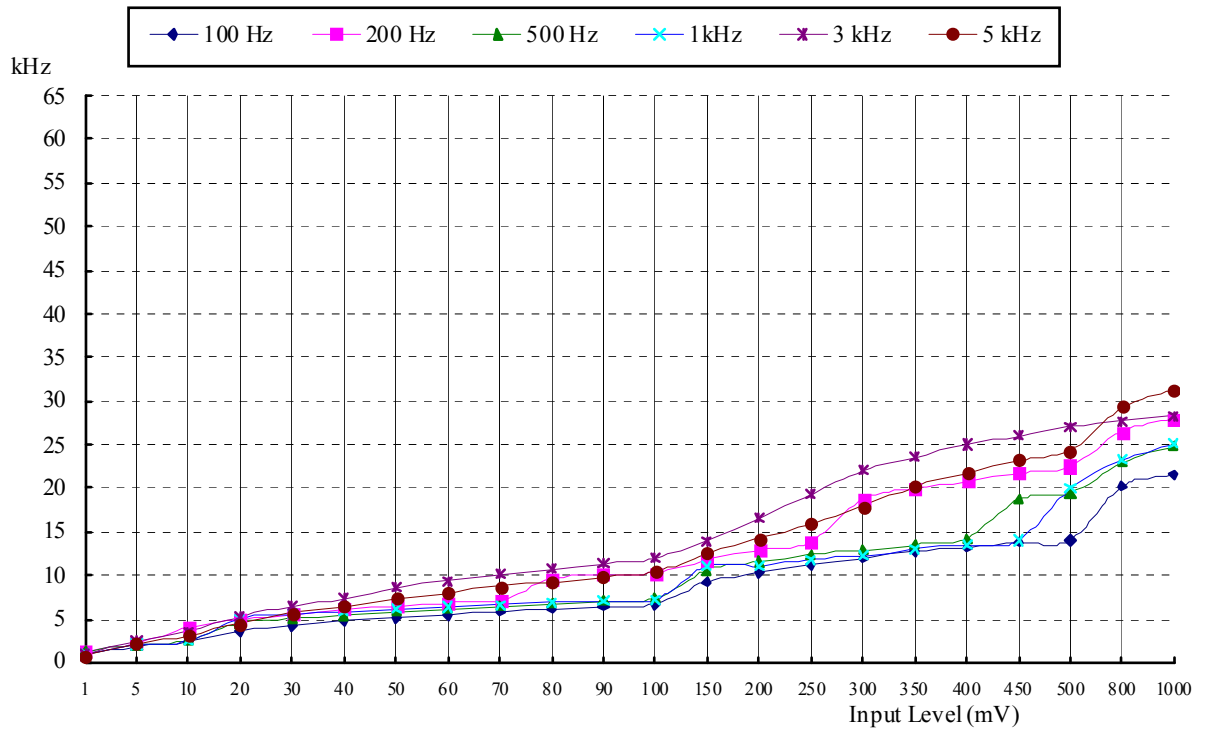
Temperature : 20 °C

Humidity : 60 %

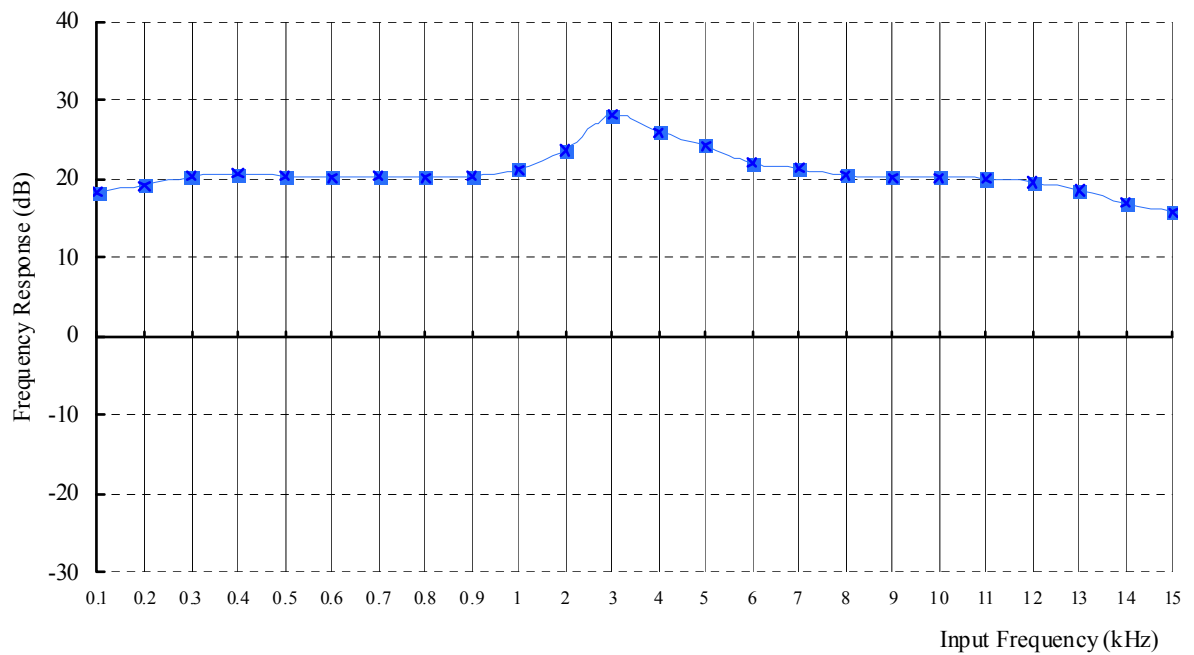
A). Frequency response



B). Modulation Limit



C). Frequency response of all circuits



5. OCCUPIED BANDWIDTH OF EMISSION

5.1 Provisions Applicable

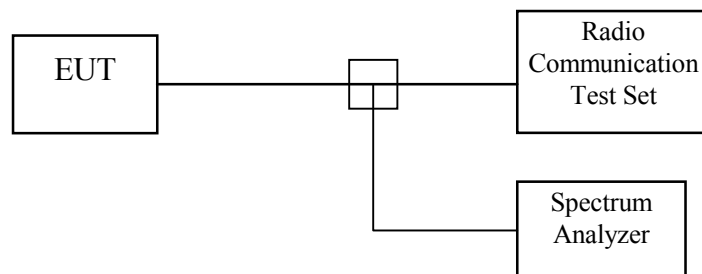
According to §2.1049 (c)(1), For radiotelephone transmitter, other than single sideband or independent sideband transmitter, when modulated by a 2.5kHz tone at an input level 16 dB greater than that necessary to produce 50 percent modulation.

According to §74.861(e)(5), the frequency emission bandwidth shall not exceed 200 kHz.

5.2 Measurement Method

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT as shown in figure 4, and Install new batteries in the EUT. Turn on the EUT and set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Apply a 2.5 kHz modulation signal to EUT and measure the frequencies of the modulated signal from the EUT where it is the specified number of dB below the reference level set in step 2. This is the occupied bandwidth specified.

Figure 4 : Occupied bandwidth measurement configuration



5.3 Occupied Bandwidth Test Equipment

Equipment	Manufacturer	Model No.	Calibration Date	Next Cal. Date
Communications Service Monitor	AEROFLEX	2945B	2014/05/12	2015/05/11
EMI Test Receiver	Rohde & Schwarz	ESU 40	2014/08/15	2015/08/14

5.4 Bandwidth Measured

5.4.1 Input Level Derived

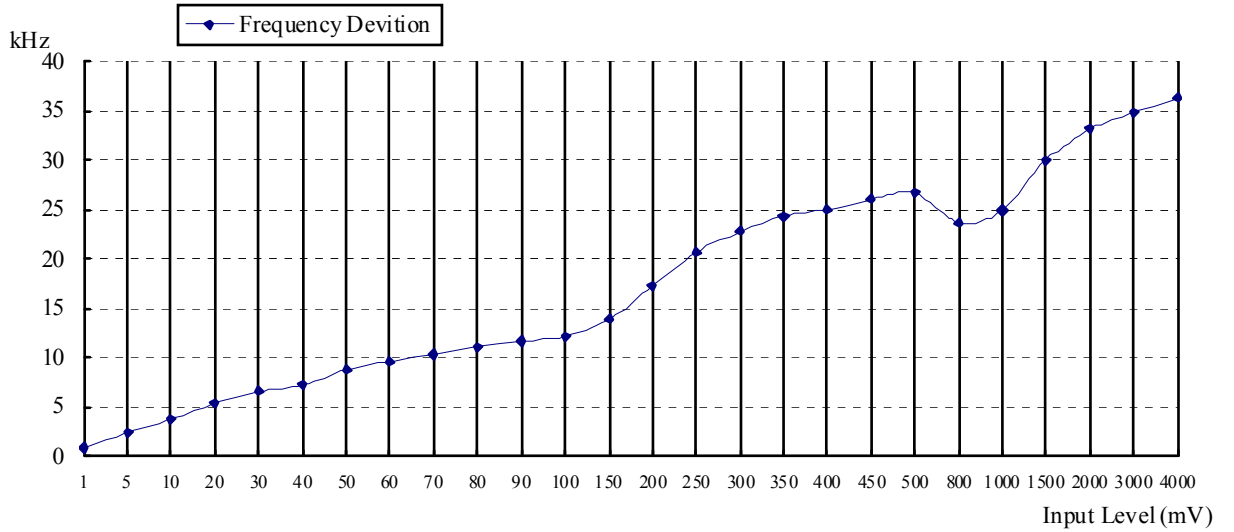
RF Frequency : 514.100MHz

Test Date : Jan. 29, 2015

Temperature : 20 °C

Humidity : 60 %

Input Audio Frequency : 2.5 kHz, Sine Wave



The Level input to produce 50% modulation is 150 mV, therefore the magnitude 16 dB greater than it is 946 mV.

5.4.2 Occupied Bandwidth Plotted

Test Date : Jan. 27, 2015

Temperature : 20 °C

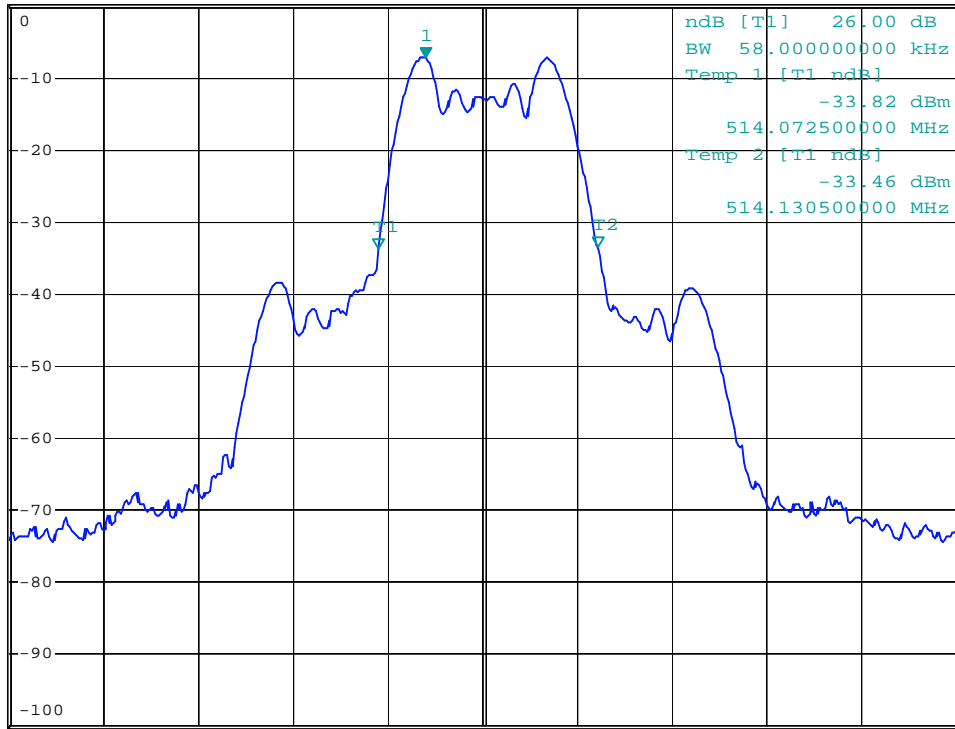
Humidity : 60 %

RF Frequency (MHz)	26 dB Bandwidth (kHz)
514.100	58.0



*RBW 3 kHz Marker 1 [T1]
VBW 10 kHz -7.16 dBm
Ref 0 dBm Att 30 dB SWT 30 ms 514.085000000 MHz

1 PK
VIEW



6. FIELD STRENGTH OF EMISSION

6.1 Provisions Applicable

According to §2.1053, measurements shall be made to detect spurious emission that may be radiated directly from the cabinet, control circuits, power leads, or intermediate circuit elements under normal condition of installation and operation. Information submitted shall include the relative radiated power of spurious emission with reference to the rated power output of the transmitter, assuming all emissions are radiated from a halfwave dipole antenna.

According to §74.861(e)(6), the mean power of emissions shall be attenuated below the mean output power of the transmitter in accordance with the following schedule:

- (i) on any frequency removed from the operating frequency by more than 50 percent up to and including 100 percent of the authorized bandwidth: at least 25 dB.
- (ii) on any frequency removed from the operating frequency by more than 100 percent up to and including 250 percent of the authorized bandwidth: at least 35 dB.
- (iii) on any frequency removed from the operating frequency by more than 250 percent of the authorized bandwidth shall be attenuated below the unmodulated carrier by at least 43 plus 10 Log(output power in watts) dB.

6.2 Measurement Procedure

1. Setup the configuration per figure 1 and 2 for frequencies measured below and above 1 GHz respectively, adjusting the input voltage to produce the maximum power as measured in chapter 3.
2. Adjust the analyzer for each frequency measured in chapter 6 on a 1 MHz frequency span and 1MHz resolution bandwidth.
3. The search antenna is to be raised and lowered over a range from 1 to 4 meters in horizontally polarized orientation. Position the highness when the highest value is indicated on spectrum analyzer, then change the orientation of EUT on test table over a range from 0 ° to 360 ° , and record the highest value indicated on spectrum analyzer as reference value.
4. Repeat step 3 until all frequencies need to be measured were complete.
5. Repeat step 4 with search antenna in vertical polarized orientations.
6. Replace the EUT with a tuned dipole antenna (horn antenna for above 1 GHz) relative to each frequency in horizontally polarized orientation and as the same polarized orientation with search antenna. Connect the tuned dipole antenna to a standard signal generator (SG) via a low loss cable. Power on the SG and tune the right frequency in measuring as well as set SG at a appreciated output level. Rise and lower the search antenna to get the highest value on spectrum analyzer, and then hold this position. Adjust the SG output to get a identical value derived from step 3 on spectrum analyzer. Record this value for result calculated.

7. Repeat step 6 until all frequencies need to be measured were complete.
8. Repeat step 7 with both dipole antenna (horn antenna for above 1 GHz) and search antenna in vertical polarized orientations.

6.3 Measuring Instrument

Equipment	Manufacturer	Model No.	Calibration Date	Next Cal. Date
EMI Test Receiver	Rohde & Schwarz	ESU 40	2014/08/15	2015/08/14
Double Ridged Antenna	EMCO	3115	2014/10/22	2015/10/21
Double Ridged Antenna	EMCO	3115	2014/08/18	2015/08/17
Log-periodic Antenna	EMCO	3146	2014/11/04	2015/11/03
Biconical Antenna	EMCO	3110	2014/11/04	2015/11/03
Amplifier	HP	8449B	2014/08/12	2015/08/11
Amplifier	HP	8447D	2014/11/10	2015/11/09
Signal generator	HP	83732B	2014/10/16	2015/10/15

Measuring instrument setup in frequency band measured is as following :

Frequency Band (MHz)	Instrument	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	Spectrum Analyzer	Peak	100 kHz	100 kHz
Above 1000	Spectrum Analyzer	Peak	1 MHz	1 MHz

6.4 Measuring Data

6.4.1. Emission Test Data

1. Monopole Antenna

a. Tx Frequency: 514.100MHz

Operated mode : TX

Test Date : Jan. 27, 2015

Temperature : 20°C

Humidity : 60%

Unmodulated carrier output power is 11.2 dBm , or 13.2 mW (ERP).

The limit of spurious or harmonics is calculated as following :

$$11.2 - [43 + 10 \log(\text{carrier output power in W})], \text{ or } -13 \text{ dBm}$$

Frequency (MHz)	Meter Reading (dBuV)		SG Reading (dBm)		Antenna Gain	Antenna Gain Corr'	Cable Loss (dB)	Result (dBm)		Limit (dBm)	Margin (dB)
	H	V	H	V				H	V		
1028.200	76.9	69.0	-35.6	-43.5	5.8	-2.0	2.1	-31.9	-41.8	-13.0	-18.9
1542.300	---	---	---	---	7.8	-2.0	2.6	---	---	-13.0	---
2056.400	---	---	---	---	7.7	-2.0	3.0	---	---	-13.0	---
2570.500	---	---	---	---	9.2	-2.0	3.4	---	---	-13.0	---
3084.600	---	---	---	---	9.0	-2.0	3.8	---	---	-13.0	---
3598.700	---	---	---	---	9.3	-2.0	4.1	---	---	-13.0	---
4112.800	---	---	---	---	9.2	-2.0	4.4	---	---	-13.0	---
4626.900	---	---	---	---	10.0	-2.0	4.6	---	---	-13.0	---
5141.000	---	---	---	---	9.7	-2.0	4.9	---	---	-13.0	---

Note :

1. Remark “---“ means that the emission level is too weak to be detected.
2. For measured frequency below 1GHz, a tuned dipole antenna is used.
3. Result calculation is as following :

$$\text{Result} = \text{SG Reading} + \text{Cable Loss} + \text{Antenna Gain} + \text{Antenna Gain Corrected}$$

Antenna Gain Corrected : is used for antenna other than dipole to convert radiated power to ERP.

2. Dipole Antenna**a. Tx Frequency: 514.100MHz**

Operated mode : TX

Test Date : Jan. 27, 2015

Temperature : 20°C

Humidity : 60%

Unmodulated carrier output power is 15.6 dBm , or 36.3 mW (ERP).

The limit of spurious or harmonics is calculated as following :

$$15.6 - [43 + 10 \log(\text{carrier output power in W})], \text{ or } -13 \text{ dBm}$$

Frequency (MHz)	Meter Reading (dBuV)		SG Reading (dBm)		Antenna Gain	Antenna Gain Corr'	Cable Loss (dB)	Result (dBm)		Limit (dBm)	Margin (dB)
	H	V	H	V				H	V		
1028.200	61.5	70.7	-51.0	-41.8	5.8	-2.0	2.1	-47.3	-40.1	-13.0	-27.1
1542.300	---	---	---	---	7.8	-2.0	2.6	---	---	-13.0	---
2056.400	---	---	---	---	7.7	-2.0	3.0	---	---	-13.0	---
2570.500	---	---	---	---	9.2	-2.0	3.4	---	---	-13.0	---
3084.600	---	---	---	---	9.0	-2.0	3.8	---	---	-13.0	---
3598.700	---	---	---	---	9.3	-2.0	4.1	---	---	-13.0	---
4112.800	---	---	---	---	9.2	-2.0	4.4	---	---	-13.0	---
4626.900	---	---	---	---	10.0	-2.0	4.6	---	---	-13.0	---
5141.000	---	---	---	---	9.7	-2.0	4.9	---	---	-13.0	---

Note :

1. Remark “---“ means that the emission level is too weak to be detected.
2. For measured frequency below 1GHz, a tuned dipole antenna is used.
3. Result calculation is as following :

$$\text{Result} = \text{SG Reading} + \text{Cable Loss} + \text{Antenna Gain} + \text{Antenna Gain Corrected}$$

Antenna Gain Corrected : is used for antenna other than dipole to convert radiated power to ERP.

3. Directional Antenna**a. Tx Frequency: 514.100MHz**

Operated mode : TX

Test Date : Jan. 27, 2015

Temperature : 20°C

Humidity : 60%

Unmodulated carrier output power is 12.4 dBm , or 17.4 mW (ERP).

The limit of spurious or harmonics is calculated as following :

$$12.4 - [43 + 10 \log(\text{carrier output power in W})], \text{ or } -13 \text{ dBm}$$

Frequency (MHz)	Meter Reading (dBuV)		SG Reading (dBm)		Antenna Gain	Antenna Gain Corr'	Cable Loss (dB)	Result (dBm)		Limit (dBm)	Margin (dB)
	H	V	H	V				H	V		
1028.200	66.2	71.0	-46.3	-41.5	5.8	-2.0	2.1	-42.6	-39.8	-13.0	-26.8
1542.300	---	---	---	---	7.8	-2.0	2.6	---	---	-13.0	---
2056.400	---	---	---	---	7.7	-2.0	3.0	---	---	-13.0	---
2570.500	---	---	---	---	9.2	-2.0	3.4	---	---	-13.0	---
3084.600	---	---	---	---	9.0	-2.0	3.8	---	---	-13.0	---
3598.700	---	---	---	---	9.3	-2.0	4.1	---	---	-13.0	---
4112.800	---	---	---	---	9.2	-2.0	4.4	---	---	-13.0	---
4626.900	---	---	---	---	10.0	-2.0	4.6	---	---	-13.0	---
5141.000	---	---	---	---	9.7	-2.0	4.9	---	---	-13.0	---

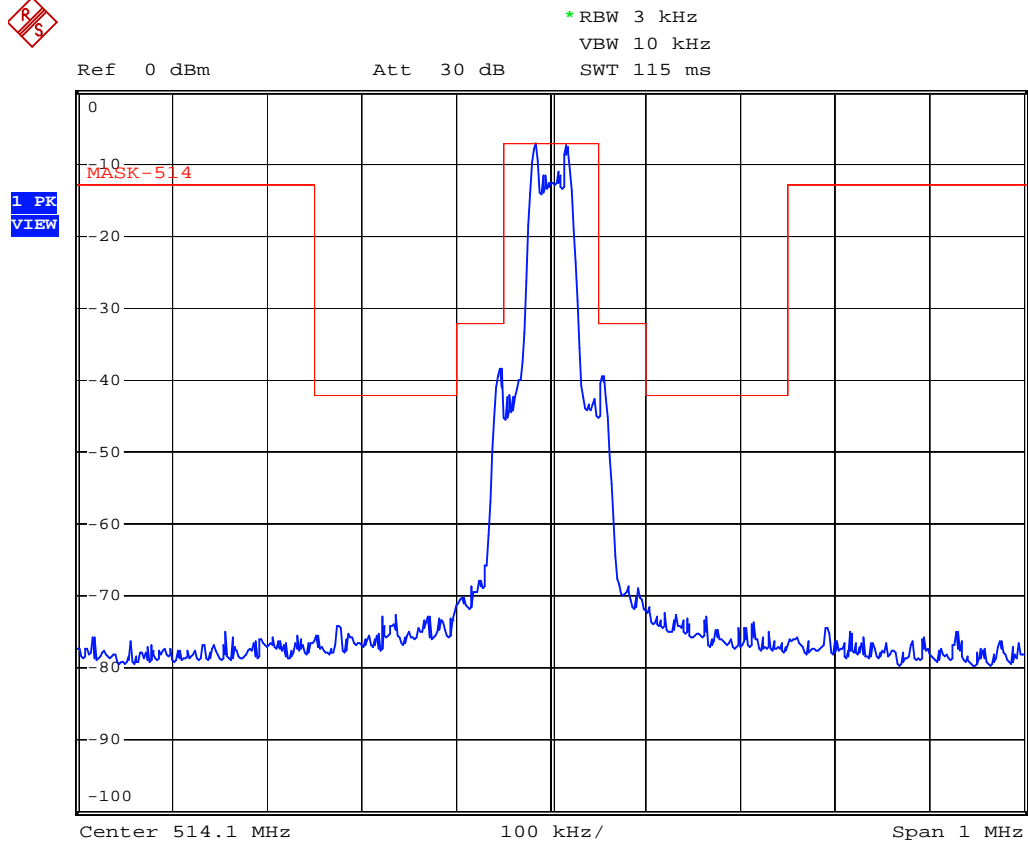
Note :

1. Remark “---“ means that the emission level is too weak to be detected.
2. For measured frequency below 1GHz, a tuned dipole antenna is used.
3. Result calculation is as following :

$$\text{Result} = \text{SG Reading} + \text{Cable Loss} + \text{Antenna Gain} + \text{Antenna Gain Corrected}$$

Antenna Gain Corrected : is used for antenna other than dipole to convert radiated power to ERP.

6.4.2 Emission mask plots



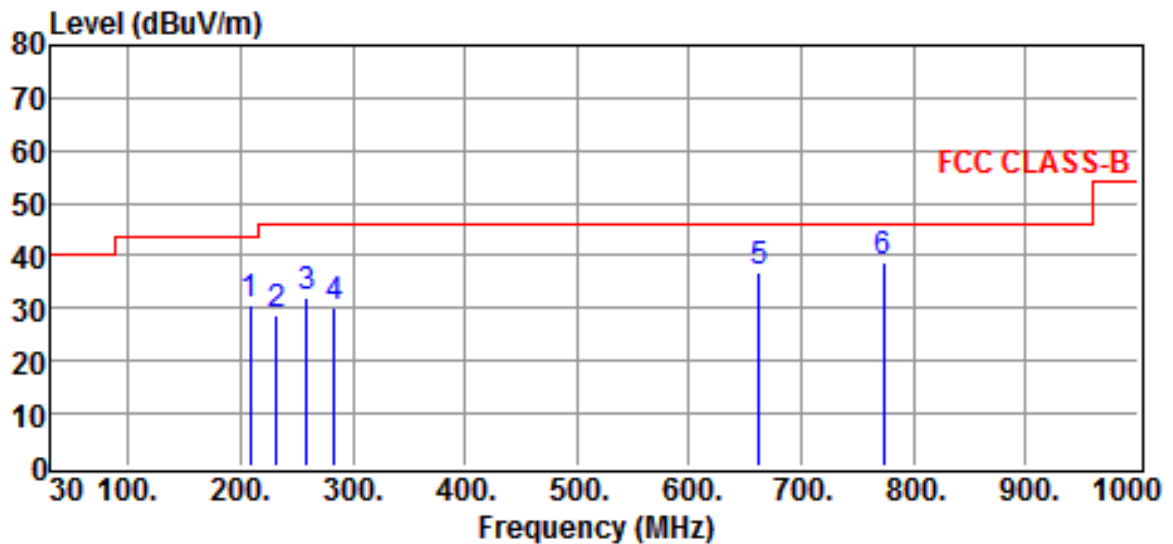
6.5 Other Emission

a) Emission frequencies below 1 GHz

Test Date : Jan. 31, 2015

Temperature : 20°C

Humidity : 60 %

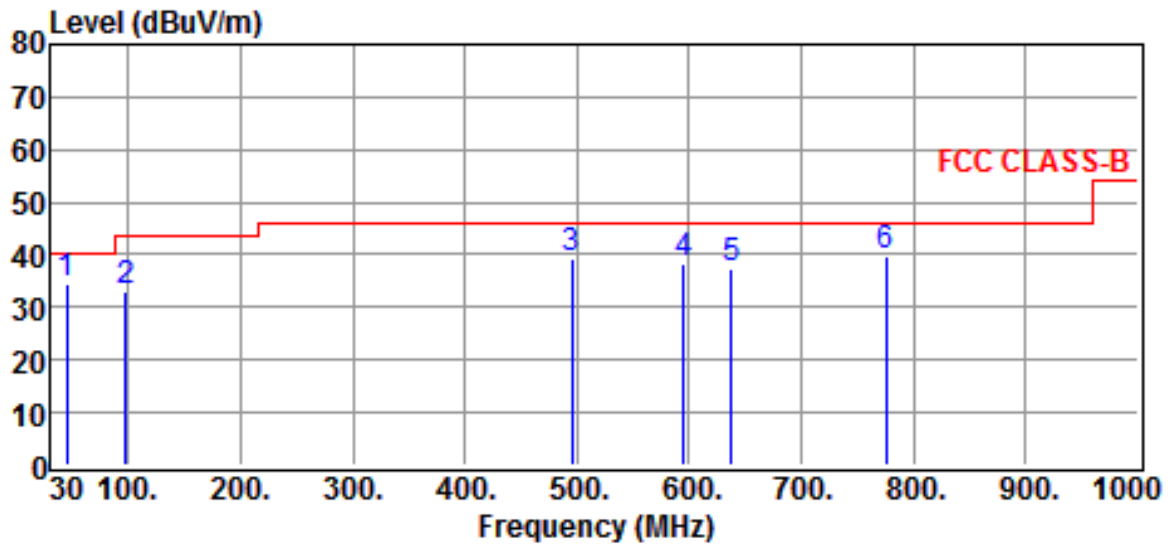


Site	:Open Site	Date	:2015-01-31
Limit	:FCC CLASS-B	Ant. Pol.	:HORIZONTAL
EUT	:Plug-in UHF Wireless Audio Link Transmitter Module	Temp.	:20°C
Power Rating	:120V/60Hz	Humi.	:60%
Model	:TX-701	Engineer.	:Jiapeng
Test Mode	:Monopole Antenna		

Freq MHz	Reading dBuV	Correction Factor dB	Result dBuV/m	Limits dBuV/m	Over limit dB	Detector
208.4800	13.0	17.9	30.9	43.5	-12.6	QP
231.7600	9.8	19.1	28.9	46.0	-17.1	QP
258.9200	12.2	20.1	32.3	46.0	-13.7	QP
284.1400	7.8	22.5	30.3	46.0	-15.7	QP
662.4400	12.3	24.7	37.0	46.0	-9.0	QP
773.0200	12.7	26.3	39.0	46.0	-7.0	QP

Note :

1. Result = Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss
3. The margin value=Limit - Result

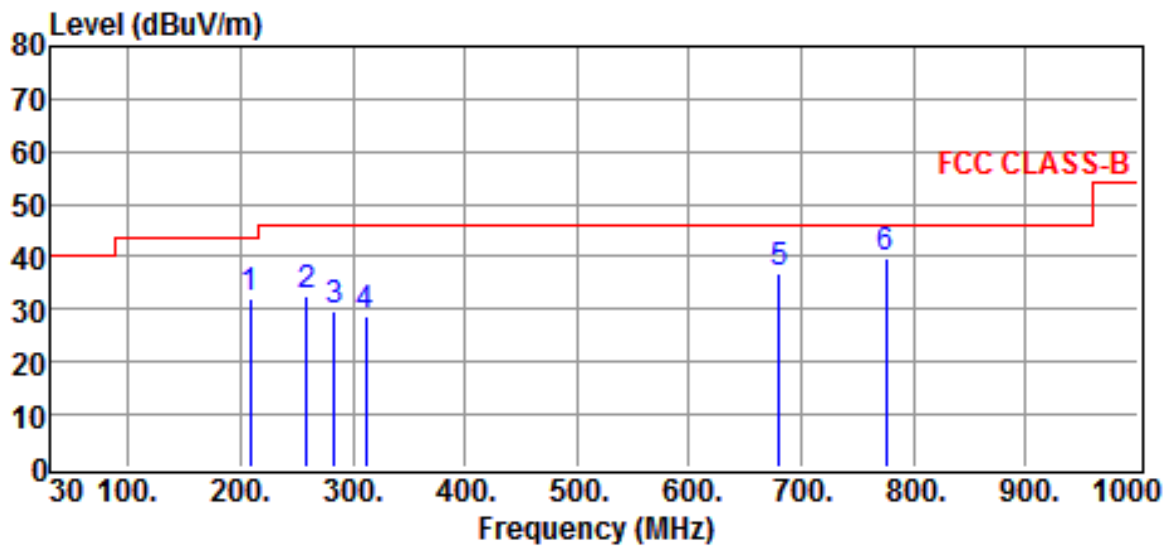


Site	:Open Site	Date	:2015-01-31
Limit	:FCC CLASS-B	Ant. Pol.	:VERTICAL
EUT	:Plug-in UHF Wireless Audio Link Transmitter Module	Temp.	:20°C
Power Rating	:120V/60Hz	Humi.	:60%
Model	:TX-701	Engineer.	:Jiapeng
Test Mode	:Monopole Antenna		

Freq MHz	Reading dBuV	Correction Factor dB	Result dBuV/m	Limits dBuV/m	Over limit dB	Detector
45.5200	22.1	12.6	34.7	40.0	-5.3	QP
97.9000	22.1	11.2	33.3	43.5	-10.2	QP
495.6000	17.4	21.8	39.2	46.0	-6.8	QP
594.5400	15.1	23.2	38.3	46.0	-7.7	QP
637.2200	13.4	24.0	37.4	46.0	-8.6	QP
774.9600	13.3	26.4	39.7	46.0	-6.3	QP

Note :

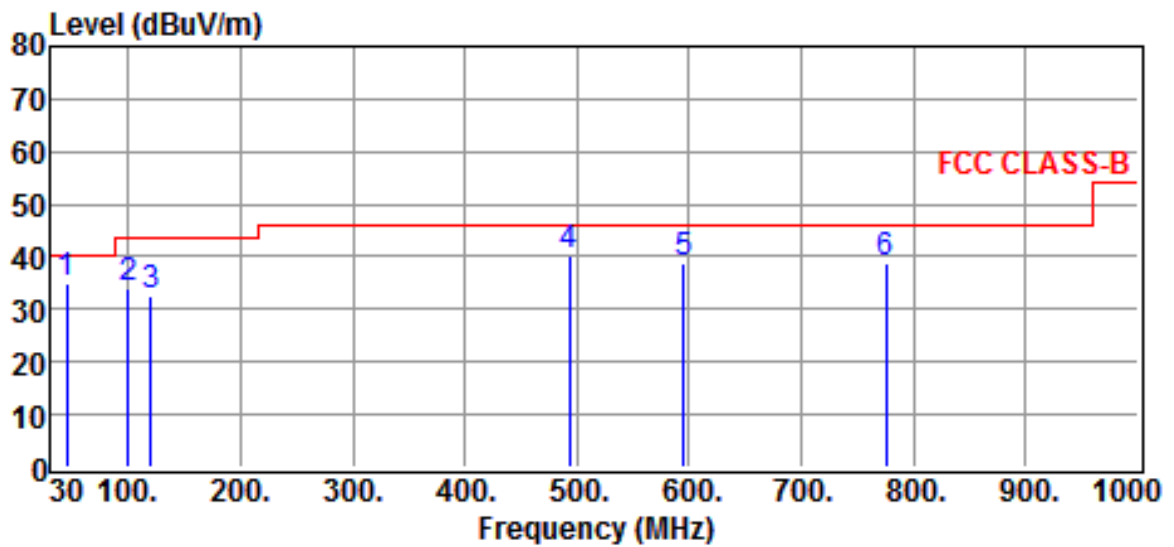
1. Result = Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss
3. The margin value=Limit - Result



Site	:Open Site	Date	:2015-01-31
Limit	:FCC CLASS-B	Ant. Pol.	:HORIZONTAL
EUT	:Plug-in UHF Wireless Audio Link Transmitter Module	Temp.	:20°C
Power Rating	:120V/60Hz	Humi.	:60%
Model	:TX-701	Engineer.	:Jiapeng
Test Mode	:Dipole Antenna		

Freq MHz	Reading dBuV	Correction Factor dB	Result dBuV/m	Limits dBuV/m	Over limit dB	Detector
208.4800	14.1	17.9	32.0	43.5	-11.5	QP
258.9200	12.3	20.1	32.4	46.0	-13.6	QP
284.1400	7.2	22.5	29.7	46.0	-16.3	QP
311.3000	6.8	22.2	29.0	46.0	-17.0	QP
679.9000	11.6	25.1	36.7	46.0	-9.3	QP
774.9600	13.2	26.4	39.6	46.0	-6.4	QP

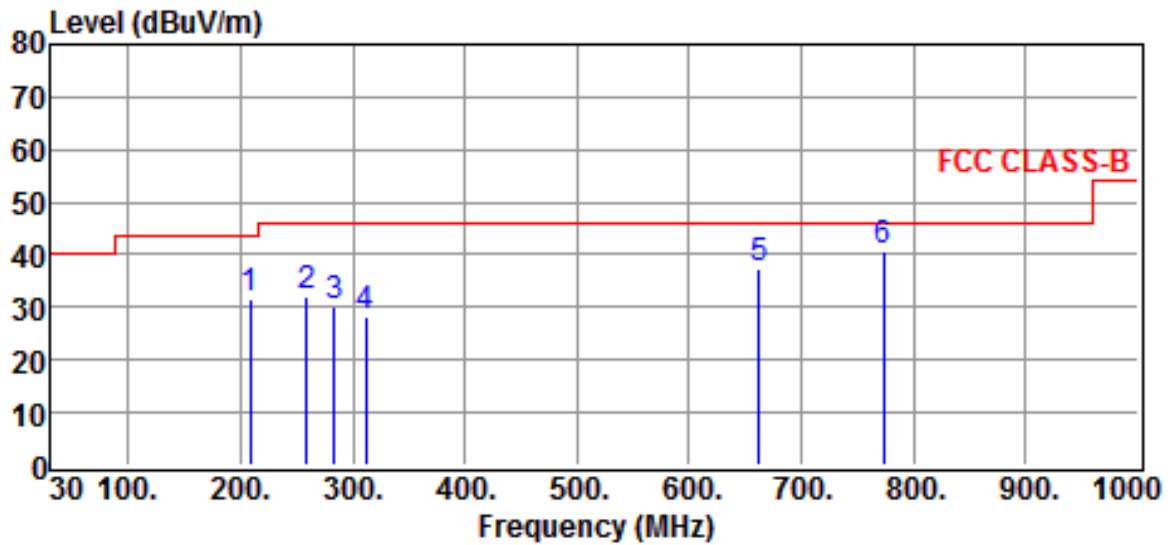
- Note :
1. Result = Reading + Corrected Factor
 2. Corrected Factor = Antenna Factor + Cable Loss
 3. The margin value=Limit - Result



Site	:Open Site	Date	:2015-01-31
Limit	:FCC CLASS-B	Ant. Pol.	:VERTICAL
EUT	:Plug-in UHF Wireless Audio Link Transmitter Module	Temp.	:20°C
Power Rating	:120V/60Hz	Humi.	:60%
Model	:TX-701	Engineer.	:Jiapeng
Test Mode	:Dipole Antenna		

Freq MHz	Reading dBUV	Correction Factor dB	Result dBUV/m	Limits dBUV/m	Over limit dB	Detector
45.5200	22.3	12.6	34.9	40.0	-5.1	QP
99.8400	22.5	11.3	33.8	43.5	-9.7	QP
120.2100	20.3	12.4	32.7	43.5	-10.8	QP
493.6600	18.5	21.7	40.2	46.0	-5.8	QP
594.5400	15.5	23.2	38.7	46.0	-7.3	QP
774.9600	12.6	26.4	39.0	46.0	-7.0	QP

- Note :
1. Result = Reading + Corrected Factor
 2. Corrected Factor = Antenna Factor + Cable Loss
 3. The margin value=Limit – Result

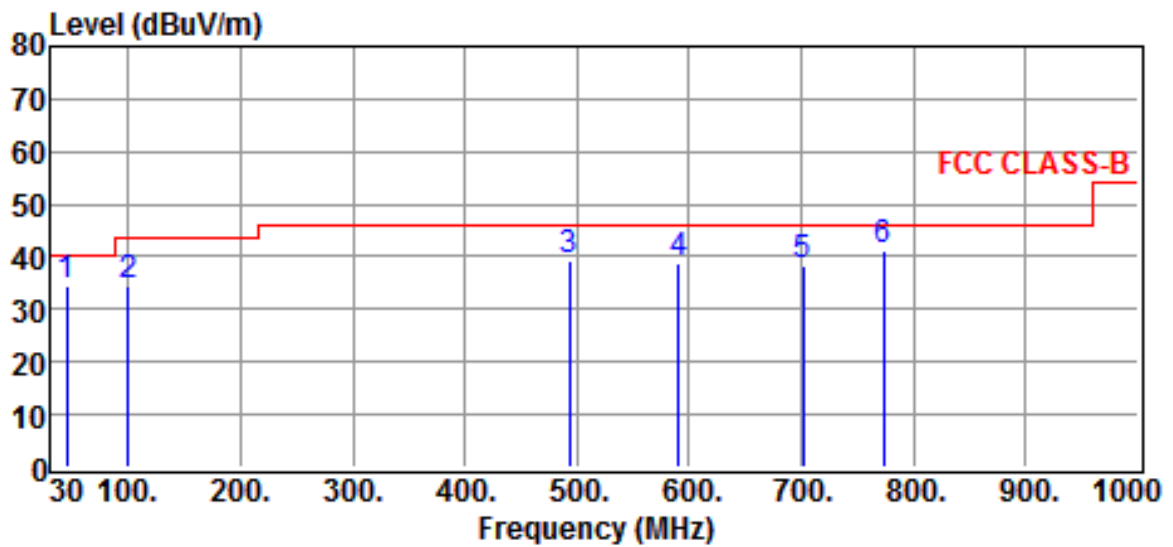


Site	:Open Site	Date	:2015-01-31
Limit	:FCC CLASS-B	Ant. Pol.	:HORIZONTAL
EUT	:Plug-in UHF Wireless Audio Link Transmitter Module	Temp.	:20°C
Power Rating	:120V/60Hz	Humi.	:60%
Model	:TX-701	Engineer.	:Jiapeng
Test Mode	:Directional Antenna		

Freq MHz	Reading dBuV	Correction Factor dB	Result dBuV/m	Limits dBuV/m	Over limit dB	Detector
208.4800	13.7	17.9	31.6	43.5	-11.9	QP
258.9200	11.8	20.1	31.9	46.0	-14.1	QP
284.1400	7.5	22.5	30.0	46.0	-16.0	QP
311.3000	6.2	22.2	28.4	46.0	-17.6	QP
662.4400	12.5	24.7	37.2	46.0	-8.8	QP
773.0200	14.3	26.3	40.6	46.0	-5.4	QP

Note :

1. Result = Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss
3. The margin value=Limit – Result



Site	:Open Site	Date	:2015-01-31
Limit	:FCC CLASS-B	Ant. Pol.	:VERTICAL
EUT	:Plug-in UHF Wireless Audio Link Transmitter Module	Temp.	:20°C
Power Rating	:120V/60Hz	Humi.	:60%
Model	:TX-701	Engineer.	:Jiapeng
Test Mode	:Directional Antenna		

Freq MHz	Reading dBuV	Correction Factor dB	Result dBuV/m	Limits dBuV/m	Over limit dB	Detector
45.5200	21.9	12.6	34.5	40.0	-5.5	QP
99.8400	23.1	11.3	34.4	43.5	-9.1	QP
493.6600	17.8	21.7	39.5	46.0	-6.5	QP
590.6600	15.8	23.0	38.8	46.0	-7.2	QP
701.2400	12.7	25.6	38.3	46.0	-7.7	QP
773.0200	14.8	26.3	41.1	46.0	-4.9	QP

- Note :
1. Result = Reading + Corrected Factor
 2. Corrected Factor = Antenna Factor + Cable Loss
 3. The margin value=Limit – Result

b) Emission frequencies above 1 GHz

Radiated emission frequencies above 1 GHz to 25 GHz were too low to be measured with a pre-amplifier of 35 dB.