FCC ID: Z9V001

FCC TEST REPORT

For

Guangzhou HanTing BIO Technology Co., Ltd.

FM Transmitter

Model No.: FU-05D

Test Report Number : ESTSZ111001201F

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TEST REPORT

Applicant	: Guangzhou HanTing BIO Technology Co., Ltd.
Manufacturer	: Guangzhou HanTing BIO Technology Co., Ltd.
EUT	: FM Transmitter
Model No.	: FU-05D
Trade Mark	: N/A
Rated Power Supply	: DC 12V via adapter

Measurement Procedure Used:

FCC Part 15 Subpart C 15.239

The device described above is tested by EST COMPLIANCE LABORATORY LIMITED to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and EST COMPLIANCE LABORATORY LIMITED is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior written consent of EST COMPLIANCE LABORATORY LIMITED.

Date of Test :	Oct. 10, 2011~Jan. 06, 2012
Prepared by :	(Engineer: David He))
Reviewer :	(Project Manager: Ronnie Liu)
Approved & Authorized Signer :	(Manager: Alex Chen)

1 GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant:	Guangzhou HanTing BIO Technology Co., Ltd.
Address of applicant:	Room1502, Huilange Building, No.273 Huangpudadaoxi Road, Tianhe District, Guangzhou, Guangdong, China
Manufacturer:	MG TECHNOLOGY(SHEN ZHEN)CO., LTD.
Address of manufacturer:	Room1502, Huilange Building, No.273 Huangpudadaoxi Road, Tianhe District, Guangzhou, Guangdong, China

General Description of E.U.T

EUT Description:	FM Transmitter
Trade Name:	N/A
Model No.:	FU-05D
Frequency:	88.10-107.90MHz
Power Supply:	DC 12V via adapter
Test Power Supply:	AC 120V, 60Hz
Date of receiver:	Oct. 10, 2011
Date of test:	Oct. 10, 2011~Jan. 06, 2012

Remark: *The models of EUT are identical except appearance and power of equipment. Unless otherwise specified, all tests were performed on model* FU-05D*.*

1.2 Test Standards

The following Declaration of Conformity report of EUT is prepared in accordance with

FCC Rules and Regulations Part 15 Subpart C 15.239

1.3 Test Summary

For the EUT described above. The standards used were FCC Part 15 Subpart C for Emissions

Table 1 : Tests Carried Out Under FCC Part 15 Subpart C

Standard	Test Items	Status
Section 15.207	Conduction Emission, 0.15MHz to 30MHz	√
Section 15.209 Section 15.239(c)	Harmonics And Spurious Radiation Emission	√
Section 15.239(b)	Fundamental Radiation Emission	√
Section 15.239(a)	Occupied Bandwidth	√
Section 15.239	Tuning range	√

√ Indicates that the test is applicable
× Indicates that the test is not applicable

1.4 Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2003, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the Operating Instructions.

The maximum emission levels emanating from the device are compared to the FCC Part 15 Subpart C limits for radiation emissions and the measurement results contained in this test report show that EUT is to be technically compliant with FCC requirements.

Global United Technology Service Co., Ltd at 2nd Floor, Block No.2, Laodong Industrial Zone,Xixiang Road, Baoan District, Shenzhen, China

1.5 Test Facility

All measurement required was performed at laboratory of Global United Technology Service Co., Ltd at 2nd Floor, Block No.2, Laodong Industrial Zone,Xixiang Road, Baoan District, Shenzhen, China

The test facility is recognized, certified, or accredited by the following organizations:

FCC – Registration No.: 600491
Global United Technology Service Co., Ltd has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 600491.

The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2003.

1.6 Test Equipment List and Details

Test equipments list of Global United Technology Service Co., Ltd.

Equipment	Manufacturer	Model#	Serial #	Data of Cal.	Due Data
3m Semi-Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS201	Mar. 30 2011	Mar. 30 2012
Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS202	N/A	N/A
EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Aug. 03 2011	Aug. 03 2012
EMI Test Software	AUDIX	E3	N/A	N/A	N/A
Coaxial Cable	GTS	N/A	GTS400	Apr. 01 2011	Apr. 01 2012
Coaxial Cable	GTS	N/A	GTS401	Apr. 01 2011	Apr. 01 2012
Coaxial Cable	GTS	N/A	GTS402	Apr. 01 2011	Apr. 01 2012
Coaxial Cable	GTS	N/A	GTS407	Apr. 01 2011	Apr. 01 2012
Coaxial Cable	GTS	N/A	GTS408	Apr. 01 2011	Apr. 01 2012
BiConiLog Antenna (26-3000MHz)	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS204	Feb. 26 2011	Feb. 26 2012
Pre-amplifier(0.1-3000MHz)	HP	8347A	GTS210	Aug. 03 2011	Aug. 03 2012
Double-ridged horn (1-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS205	Jun. 30 2011	Jun. 30 2012
Pre-amplifier(1-18GHz)	Rohde & Schwarz	8349B	GTS224	Aug. 03 2011	Aug. 03 2012
Humidity/ Temperature Indicator	Shanghai	ZJ1-2B	GTS250	Aug. 03 2011	Aug. 03 2012
Barometer	ChangChun	DYM3	GTS251	Jul. 08 2011	Jul. 08 2012
Shielding Room	ZhongYu Electron	7.0(L)*3.0(W)*3.0(H)	GTS206	Apr. 10 2011	Apr. 10 2012
EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS208	Aug. 03 2011	Aug. 03 2012
10dB Pulse Limiter	Rohde & Schwarz	N/A	GTS209	Aug. 03 2011	Aug. 03 2012
LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS207	Apr. 14 2011	Apr. 14 2012
Coaxial Cable	GTS	N/A	GTS406	Apr. 01 2011	Apr. 01 2012
Loop Antenna	ETS-Lindgren	6502	00082431	Apr. 14 2011	Apr. 14 2013

2 TEST CONFIGURATION

2.1 Justification

The system was configured for testing in a typical fashion (as normally used by a typical user).

2.2 EUT Exercise Software

The EUT exercising program used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use. The software offered by manufacture, can let the EUT being normal operation.

2.3 Special Accessories

As shown in section 2.5, interface cable used for compliance testing is shielded as normally supplied by **Guangzhou HanTing BIO Technology Co., Ltd.** And its respective support equipment manufacturers.

2.4 Equipment Modifications

The EUT tested was not modified by EST.

2.5 Basic Test Setup Block Diagram

3 DISTURBANCE VOLTAGE AT THE MAINS TERMINALS

3.1 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, and LISN.

The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement is ±2.4 dB.

3.2 Limit of Disturbance Voltage at The Mains Terminals (FCC Part 15 Subpart C)

Frequency Range (MHz)	Limits(dBμV)	
	Quasi-peak	Average
0.450～2.510	66-56	56-46
2.510～3.000	56	46
3.000～30.00	60	50

Note: (1) The tighter limit shall apply at the edge between two frequency bands.
(2) Decreases with the logarithm of the frequency.

3.3 EUT Setup

The setup of EUT is according with ANSI C63.4-2003 measurement procedure. The specification used was the FCC Rules and Regulations Part 15 limits.

The EUT was placed center and the back edge of the test table.

The AV cables were draped along the test table and bundled to 30-40cm in the middle.

The spacing between the peripherals was 10 cm.

Maximum emission emitted from EUT was determined by manipulating the EUT, support equipment, interconnecting cables and varying the mode of operation and the levels in the final result of the test were recorded with the EUT running in the operating mode that maximum emission was emitted.

3.4 Instrument Setup

The test receiver was set with the following configurations:

Test Receiver Setting:

Frequency Range……150 KHz to 30 MHz
Detector……..Peak & Quasi-Peak & Average
Sweep Speed……Auto
IF Band Width……..9 KHz

3.5 Test Procedure

During the conducted emission test, the EUT power cord was connected to the auxiliary outlet of the first Artificial Mains.

Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance using all installation combination.

All data was recorded in the peak detection mode. Quasi-peak and Average readings were only performed when an emission was found to be marginal (within -10 dBμV of specification limits). Quasi-peak readings are distinguished with a "**QP**". Average readings are distinguished with a "**AV**".

3.6 Summary of Test Results

According to the data in section 3.6, the EUT complied with the FCC Part 15 Subpart C Conducted margin, with the *worst* margin reading of:

3.7 Disturbance Voltage Test Data

Temperature (°C)	26
Humidity (%RH)	58
Barometric Pressure (mbar)	1001.1
EUT	FM Transmitter
M/N	FU-05D
Operating Mode	ON

Test data see following pages.

Remark: (1) When PK reading is less than relevant limit 20dB, the QP reading and AV reading will not be recorded.
(2) Where QP reading is less than relevant AV limit, the AV reading will not be measured

3.8 Test Result

Pass.

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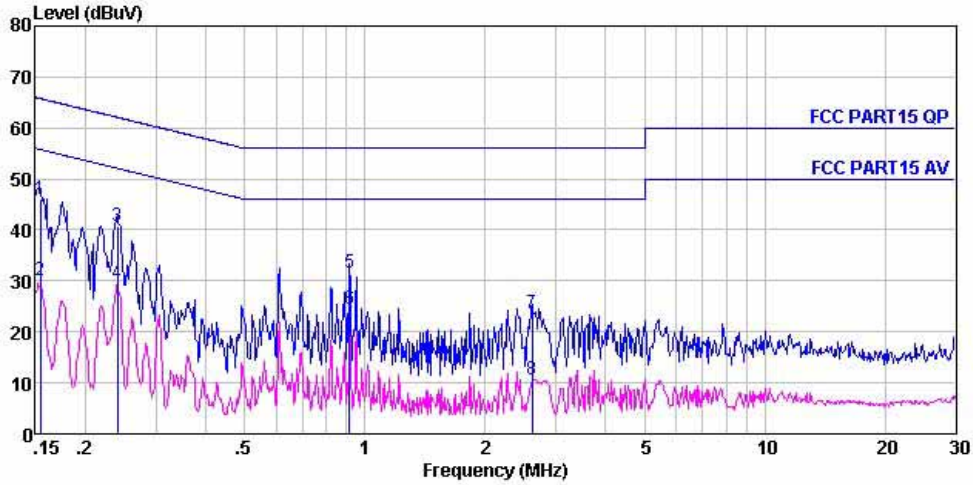
Conducted Emission Test Data



Condition : FCC PART15 QP LISN(2011) NEUTRAL
EUT : FM Transmitter
Model : FM001
Test mode:: ON mode
Power: : AC 120V/60Hz
Engineer: : David
Remark :

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.154	45.33	0.69	0.10	46.12	65.78	-19.66	QP
2	0.154	29.33	0.69	0.10	30.12	55.78	-25.66	Average
3	0.240	39.93	0.64	0.10	40.67	62.08	-21.41	QP
4	0.240	28.93	0.64	0.10	29.67	52.08	-22.41	Average
5	0.914	30.86	0.49	0.10	31.45	56.00	-24.55	QP
6	0.914	23.86	0.49	0.10	24.45	46.00	-21.55	Average
7	2.622	23.03	0.37	0.10	23.50	56.00	-32.50	QP
8	2.622	10.03	0.37	0.10	10.50	46.00	-35.50	Average

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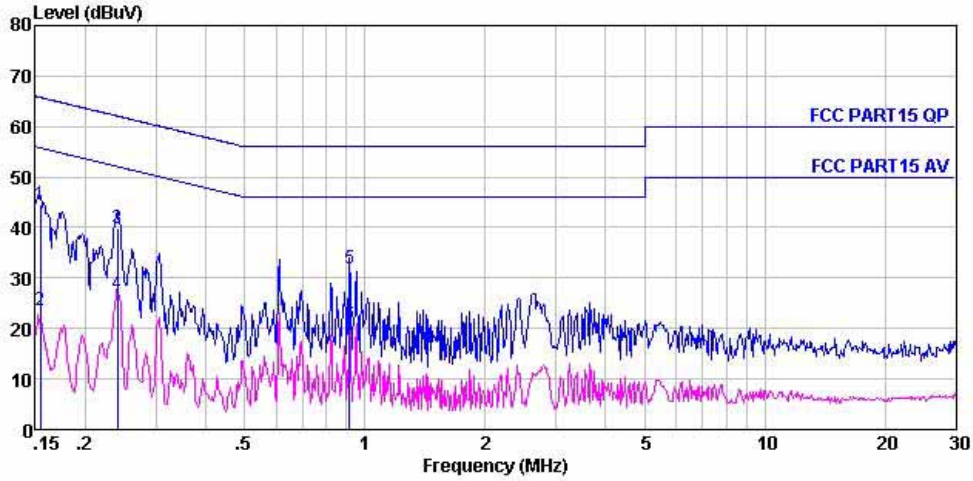
Conducted Emission Test Data



Condition : FCC PART15 QP LISN(2011) LINE
EUT : FM Transmitter
Model : FM001
Test mode:: ON mode
Power: : AC 120V/60Hz
Engineer: : David
Remark :

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.154	43.68	0.69	0.10	44.47	65.78	-21.31	QP
2	0.154	22.69	0.69	0.10	23.48	55.78	-32.30	Average
3	0.240	39.23	0.64	0.10	39.97	62.08	-22.11	QP
4	0.240	26.23	0.64	0.10	26.97	52.08	-25.11	Average
5	0.914	31.36	0.49	0.10	31.95	56.00	-24.05	QP
6	0.914	20.36	0.49	0.10	20.95	46.00	-25.05	Average

4 HARMONICS AND SPURIOUS RADIATED DISTURBANCES

4.1 Requirements (15.239©, 15.209,)

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 Section 15.209

Frequency (MHz)	Distance (Meters)	Field Strengths Limits (dBμV/m)
1.705-30.0	3	69.5
30-88	3	40
88 ~216	3	43.5
216 ~ 960	3	46
Above960	3	54

Note: (1) The tighter limit shall apply at the edge between two frequency bands.
(2) Distance refers to the distance in meters between the test instrument antenna and the closest point of any part of the E.U.T.

4.2 Radiated Emissions Test Result

Temperature (℃)	26
Humidity (%RH)	56
Barometric Pressure (mbar)	1001.1
EUT	FM Transmitter
M/N	FU-05D
Operating Mode	TX 88.1MHz, TX 98.0MHz, TX 107.9MHz

Test data see following pages.

Remark: (1) When PK reading is less than relevant limit 20dB, the QP reading and AV reading will not be recorded.
(2) Where QP reading is less than relevant AV limit, the AV reading will not be measured

4.3 Test Result

Pass.

Data (From 9KHz ~ 30MHz, Test Mode: TX 88.1MHz):

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Remark	Direction (H/V)
7.60	52.13	5.15	0.28	25.31	32.25	69.5	-37.25	QP	-
15.20	51.30	5.32	0.35	25.58	31.39	69.5	-38.11	QP	-
22.80	51.50	5.58	0.41	25.62	31.87	69.5	-37.63	QP	-

Emissions attenuated more than 20 dB below the permissible value are not reported.

Data (From 9KHz ~ 30MHz, Test Mode: TX 98.0MHz):

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Remark	Direction (H/V)
7.60	52.05	5.15	0.28	25.31	32.17	69.5	-37.33	QP	-
15.20	53.10	5.32	0.35	25.58	33.19	69.5	-36.31	QP	-
22.80	49.71	5.58	0.41	25.62	30.08	69.5	-39.42	QP	-

Emissions attenuated more than 20 dB below the permissible value are not reported.

Data (From 9KHz ~ 30MHz, Test Mode: TX 107.9MHz):

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Remark	Direction (H/V)
7.60	49.70	5.15	0.28	25.31	29.82	69.5	-39.68	QP	-
15.20	50.96	5.32	0.35	25.58	31.05	69.5	-38.09	QP	-
22.80	49.46	5.58	0.41	25.62	29.83	69.5	-39.67	QP	-

Emissions attenuated more than 20 dB below the permissible value are not reported.

Data (From 30MHz ~ 1GHz, Test Mode: TX 88.1MHz):

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Remark	Direction (H/V)
75.98	40.39	9.77	0.91	26.33	24.74	40.00	-15.26	QP	H
163.18	41.61	10.66	1.59	26.07	27.79	43.50	-15.71	QP	H
893.36	27.16	23.36	3.32	26.53	27.31	46.00	-18.69	QP	H
67.44	42.23	11.54	0.80	26.35	28.22	40.00	-11.78	QP	V
134.83	50.05	6.86	1.48	26.15	32.24	43.50	-11.26	QP	V
884.50	27.19	22.72	3.31	26.55	26.67	46.00	-19.33	QP	V

Emissions attenuated more than 20 dB below the permissible value are not reported.

Data (From 30MHz ~ 1GHz, Test Mode: TX 98.0MHz):

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Remark	Direction (H/V)
56.59	37.13	13.34	0.69	26.39	24.77	40.00	-15.23	QP	H
194.45	41.07	8.71	1.74	25.94	25.58	43.50	-17.92	QP	H
919.29	26.47	23.33	3.36	26.48	32.70	46.00	-19.32	QP	H
77.05	44.57	7.41	0.93	26.33	26.58	40.00	-13.42	QP	V
181.28	41.68	9.36	1.68	25.99	26.73	43.50	-16.77	QP	V
747.48	27.58	22.59	3.03	27.02	26.18	46.00	-19.82	QP	V

Emissions attenuated more than 20 dB below the permissible value are not reported.

Data (From 30MHz ~ 1GHz, Test Mode: TX 107.9MHz):

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Remark	Direction (H/V)
67.91	35.31	11.22	0.81	26.35	20.99	40.00	-19.01	QP	H
178.76	40.11	9.28	1.67	26.00	25.06	43.50	-18.44	QP	H
699.30	33.74	22.25	2.94	27.15	31.78	46.00	-14.22	QP	H
54.64	36.97	13.02	0.69	26.39	24.29	40.00	-15.71	QP	V
112.80	40.37	10.19	1.24	26.29	25.61	43.50	-17.89	QP	V
801.79	37.48	18.93	3.14	26.88	32.67	46.00	-13.33	QP	V

Emissions attenuated more than 20 dB below the permissible value are not reported.

5 FUNDAMENTAL RADIATION EMISSION

5.1 Requirements (15.239(b), 15.35)

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 Section 15.35 for limiting peak emissions apply.

Frequency Range (MHz)	Limits(dBμV)	
	Peak	Average
88.1-107.9	68	48

Note: (1) Distance refers to the distance in meters between the test instrument antenna and the closest point of any part of the E.U.T.

5.2 Radiated Emissions Test Result

Temperature (℃)	26
Humidity (%RH)	56
Barometric Pressure (mbar)	1001.1
EUT	FM Transmitter
M/N	FU-05D
Operating Mode	TX 88.1MHz, TX 98.0MHz, TX 107.9MHz

Test data see following pages.

5.3 Test Result

Pass.

Data (Test Mode: TX 88.1MHz):

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Remark	Direction (H/V)
88.10	52.99	7.56	0.95	26.33	35.17	48	-12.83	Average	H
88.10	54.89	7.56	0.95	26.33	37.07	68	-30.93	Peak	H
88.10	58.26	7.56	0.95	26.33	40.44	48	-7.56	Average	V
88.10	60.16	7.56	0.95	26.33	42.34	68	-25.66	Peak	V

Data (Test Mode: TX 98.0MHz):

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Remark	Direction (H/V)
97.90	48.43	11.05	1.14	26.34	34.28	48	-13.72	Average	H
97.90	50.33	11.05	1.14	26.34	36.18	68	-31.82	Peak	H
97.90	54.13	11.05	1.14	26.34	39.98	48	-8.02	Average	V
97.90	56.03	11.05	1.14	26.34	41.88	68	-26.12	Peak	V

Data (Test Mode: TX 107.9MHz):

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Remark	Direction (H/V)
107.91	50.98	10.13	1.23	26.28	36.06	48	-11.94	Average	H
107.91	52.88	10.13	1.23	26.28	37.96	68	-30.04	Peak	H
107.91	55.05	10.13	1.23	26.28	40.13	48	-7.87	Average	V
107.91	56.95	10.13	1.23	26.28	42.03	68	-25.97	Peak	V

6 OCCUPIED BANDWIDTH

6.1 The Requirement For Section 15.239(a)

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

6.2 Occupied Bandwidth Test Result

Temperature (°C)	26
Humidity (%RH)	56
Barometric Pressure (mbar)	1001.1
EUT	FM Transmitter
M/N	FU-05D
Operating Mode	TX 88.1MHz, TX 98.0MHz, TX 107.9MHz

Test data see following pages.

6.3 Test Result

The EUT does meet the FCC requirement

FM 88.1MHz
-26dB bandwidth = 90.5 kHz

FM 98.0MHz
-26dB bandwidth = 97.0 kHz

FM 107.9MHz
-26dB bandwidth = 95.0 kHz

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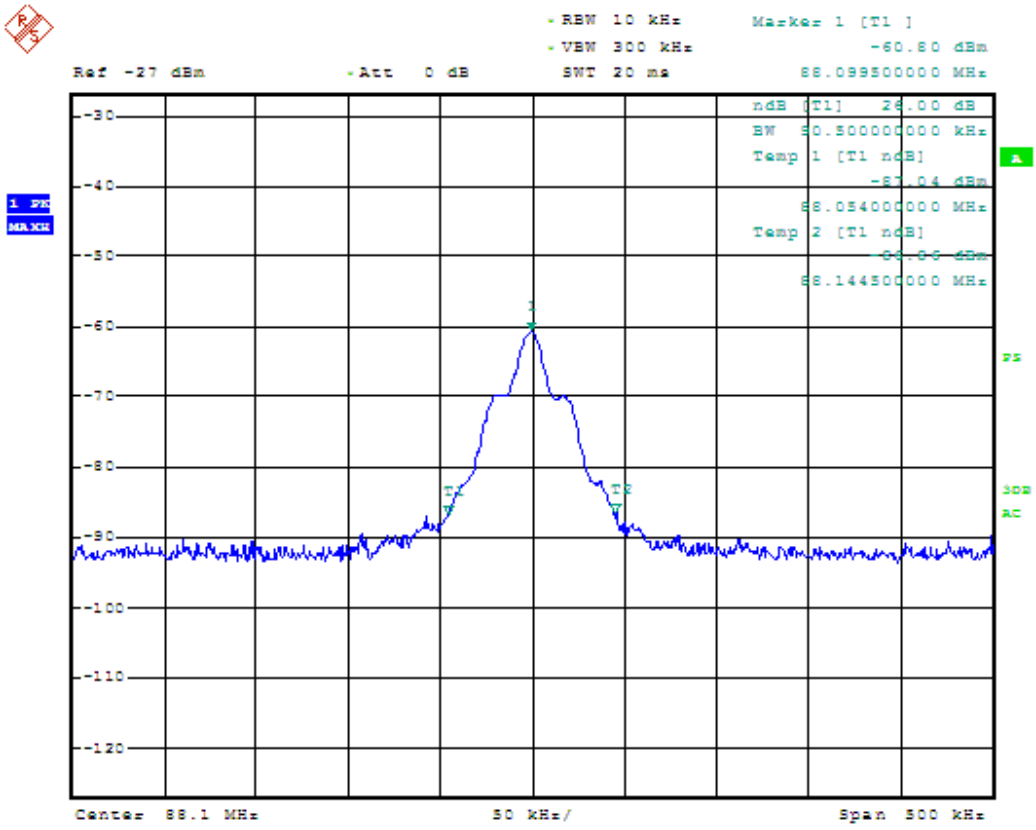
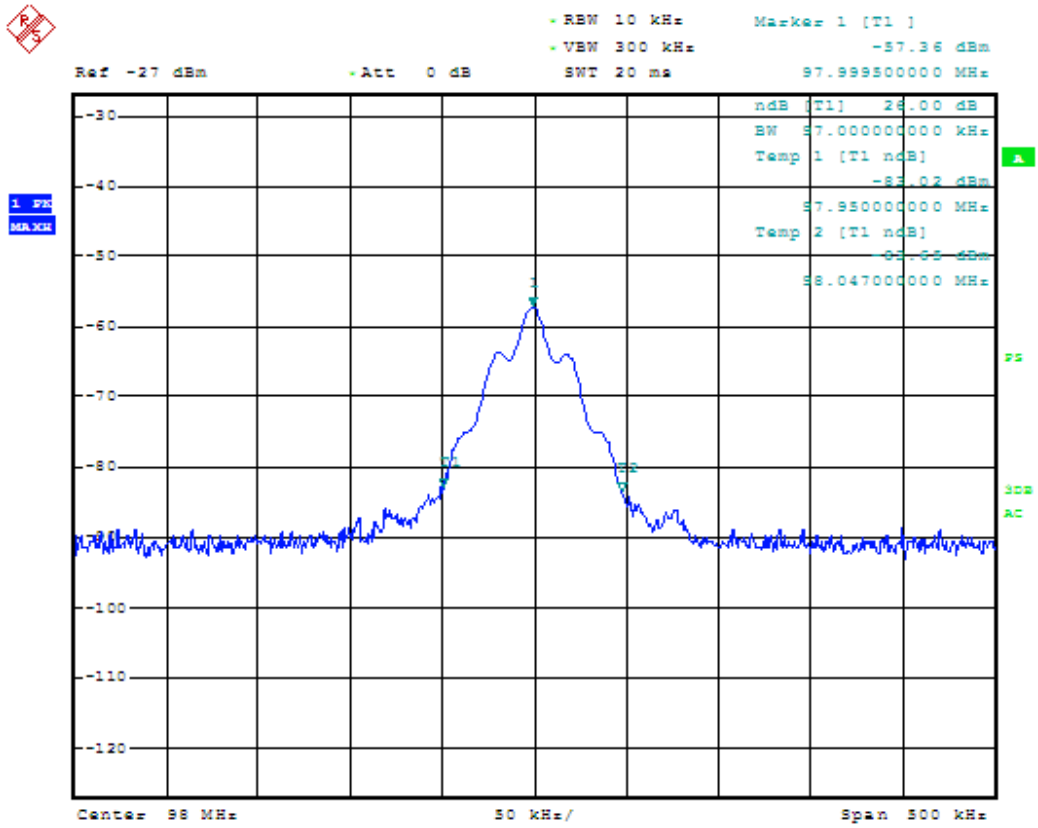
TEST DATA



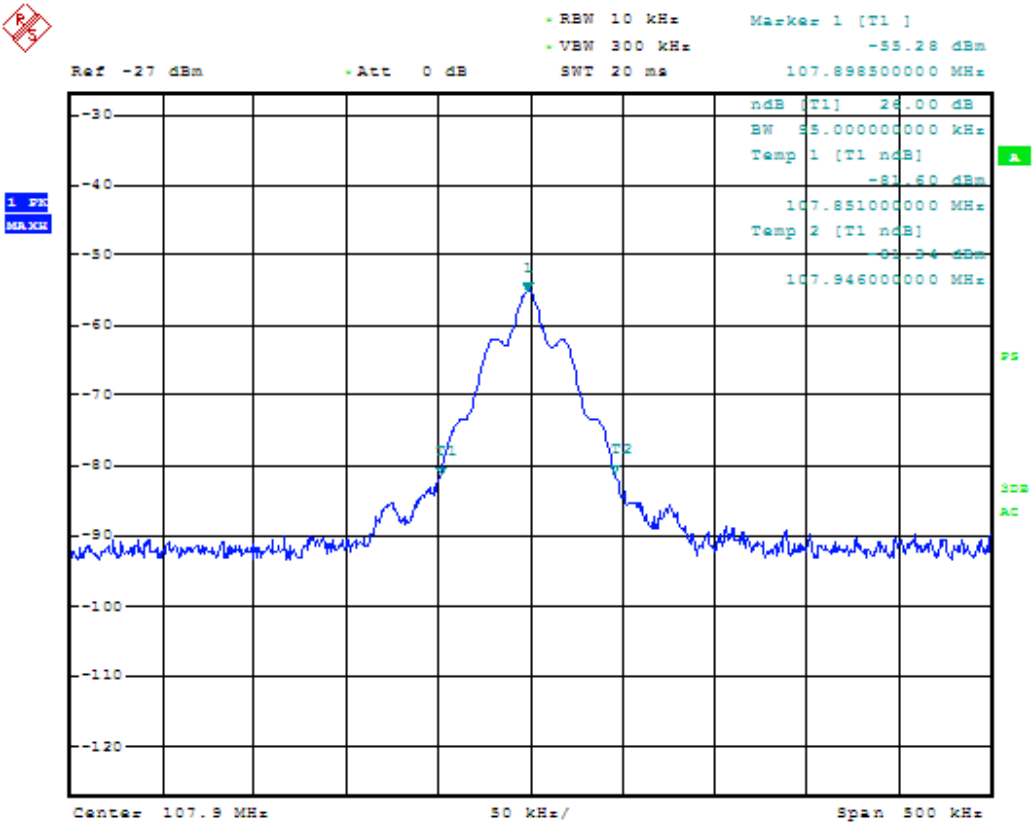
FCC ID: Z9V001

TEST DATA



FCC ID: Z9V001

TEST DATA



7 TUNING RANGE

7.1The Requirement For Section 15.239

88-108MHz

7.2 Occupied Bandwidth Test Result

Temperature (℃)	26
Humidity (%RH)	56
Barometric Pressure (mbar)	1001.1
EUT	FM Transmitter
M/N	FU-05D
Operating Mode	TX 88.1MHz, TX 98.0MHz, TX 107.9MHz

7.3 Test Result

The EUT does meet the FCC requirement

Low Frequency = 88.106MHz EUT LED display 88.1MHz
Mid Frequency = 98.004MHz EUT LED display 98.0MHz
High Frequency = 107.902MHz EUT LED Display 107.9MHz