



## SGS-CSTC Standards Technical Services Ltd.

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**FEDERAL COMMUNICATIONS COMMISSION**  
Registration number: 282399

Report No.: SZEMO09020056301  
Page: 1 of 22  
FCC ID: W6AKETV75039

# TEST REPORT

**Application No. :** SZEMO090200563RF  
**Applicant;** KAYEE M.O. HOUSE CO., LTD.  
**Manufacturer/ Factory:** Geng You Electronic Technology Co., Ltd  
**FCC ID:** W6AKETV75039  
**Operation Frequency:** 914MHz, 914.5MHz, 915MHz  
**Equipment Under Test (EUT):**  
Name: wireless speaker  
Model: TV75039  
**Standards:** FCC PART 15: 2008  
**Date of Receipt:** 20 February 2009  
**Date of Test:** 20 February to 13 March 2009  
**Date of Issue:** 30 March 2009

<b>Test Result :</b>	<b>PASS *</b>
----------------------	---------------

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Robinson Lo  
Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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## 2 Test Summary

Test	Test Requirement	Standard Paragraph	Result
Flid Strength of Fundamental	FCC PART 15 : 2008	Section 15.249 (a)	PASS
Flid Strength of Harmonics or other Frequency Emission	FCC PART 15 : 2008	Section 15.249 (a) Section 15.209/15.205	PASS
Conducted Emission (150KHz to 30MHz)	FCC PART 15: 2008	Section 15.207	PASS*
Occupied Bandwidth	FCC PART 15 : 2008	Section 15.249	PASS

Remark: The EUT passed the Conducted Emission test after retest.

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## **4 General Information**

### **4.1 Client Information**

Applicant Name: KAYEE M.O. HOUSE CO., LTD.  
Applicant Address: JIDALI INDUSTRIAL ZONE, GONGHE CUN, SHAJING TOWN, BAOAN, SHENZHEN CITY, GUANGDONG, P.R.CHINA  
Manufacturer/ Factory : Geng You Electronic Technology Co., Ltd  
Manufacturer/ Factory Address: JIDALI INDUSTRIAL ZONE, GONGHE CUN, SHAJING TOWN, BAOAN, SHENZHEN CITY, GUANGDONG, P.R.CHINA

### **4.2 General Description of E.U.T**

Product Name: wireless speaker  
Model: TV75039  
Power Supply: Input:120V 60Hz  
Output: 9V 100mA  
Power Cord: N/A-

### **4.3 Description of Support Units**

The EUT was tested as an independent unit: a 915MHz Wireless speaker

### **4.4 Standards Applicable for Testing**

The customer requested FCC tests for a 915MHz Wireless speaker  
The standard used was FCC PART 15, SUBPART C (2008) section 15.249.

### **4.5 Test Location**

All tests were performed at:  
No. 1 Workshop, M-10, Middle Section, Science & Technology Park, District Shenzhen, China 518057  
Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594  
No tests were sub-contracted.

### **4.6 Other Information Requested by the Customer**

None.

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#### **4.7 Test Facility**

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

- **NVLAP – Lab Code: 200811-0**  
SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is recognized under the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200811-0. Effective through December 31, 2008.
- **ACA**  
SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.
- **VCCI**  
The 3m Semi-anechoic chamber and Shielded Room (11.5m x 4m x 4m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-1599 and C-1706 respectively.  
Date of Registration: June 01, 2005. Valid until February 22, 2008
- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**  
Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.
- **CNAL – LAB Code: L0141**  
SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAL/AC01: 2002 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:1999 General Requirements) for the Competence of Testing Laboratories.
- **FCC – Registration No.: 282399**  
SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory 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 282399, May 31, 2002. With the above and NVLAP's accreditation, SGS-CSTC is an authorised test laboratory for the DoC process.
- **Industry Canada (IC)**  
The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5169.

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## 5 Test Results

### 5.1 Test Instruments

RE in Chamber						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	16-06-2007	15-06-2009
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEL0023	12-12-2008	11-12-2009
3	EMI Test software	AUDIX	E3	SEL0050	N/A	N/A
4	Coaxial cable	SGS	N/A	SEL0028	18-06-2008	17-06-2009
5	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0014	12-08-2008	11-08-2009
6	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	18-06-2008	17-06-2009
7	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0005	12-08-2008	11-08-2009
8	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	12-08-2008	11-08-2009
9	Pre-amplifier (1-18GHz)	Rohde & Schwarz	AFS42-00101 800-25-S-42	SEL0081	18-06-2008	17-06-2009
10	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33- 18002650-30- 8P-44	SEL0080	18-06-2008	17-06-2009
11	Band filter	Amindeon	82346	SEL0094	18-06-2008	17-06-2009
12	Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	15-06-2008	14-06-2009
13	UNIVERSAL RADIO COMMUNICATION TESTER	Rohde & Schwarz	CMU200	SEL0091	18-06-2008	17-06-2009

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Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	Shielding Room	ZhongYu Electron	GB-88	SEL0042	N/A	N/A
2	LISN	ETS-LINDGREN	3816/2	SEL0021	18-06-2008	17-06-2009
3	ISN	Rohde & Schwarz	ENY 22 1109	EMC0114	18-06-2008	17-06-2009
4	ISN	Rohde & Schwarz	ENY 41 1110	EMC0115	18-06-2008	17-06-2009
5	EMI Test Receiver	Rohde & Schwarz	ESCI	SEL0022	18-06-2008	17-06-2009
6	Coaxial Cable	SGS	N/A	SEL0024	18-06-2008	17-06-2009

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## **5.2 E.U.T. Operation**

Input voltage:	Input:120V 60Hz Output: 9V 100mA
Operating Environment:	
Temperature:	24°C
Humidity:	50 % RH
Atmospheric Pressure:	1010 mbar
EUT Operation:	Test in transmitting mode

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## 5.3 Test Procedure & Measurement Data

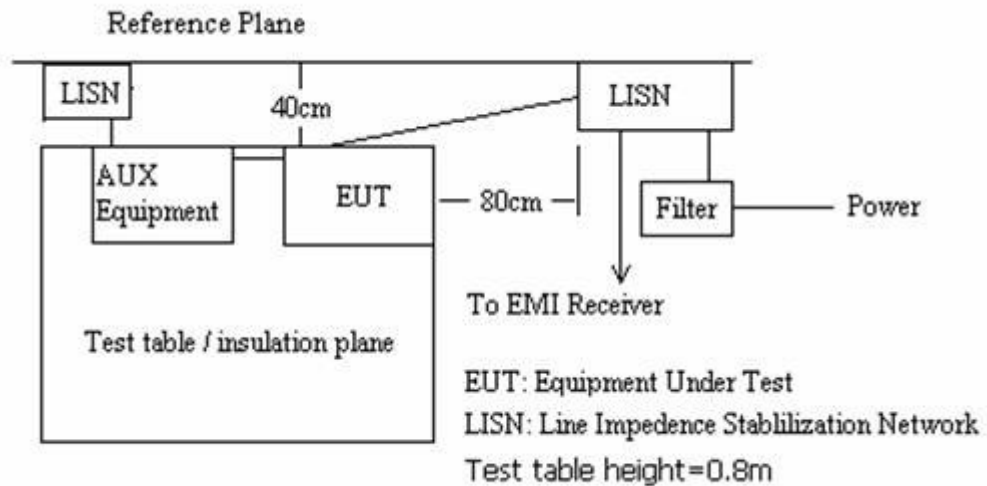
### 5.3.1 Conducted Emissions at Mains Terminals 150 kHz to 30MHz

<b>Test Requirement:</b>	FCC Part 15.207
<b>Test Method:</b>	ANSI C63.4
<b>Frequency Range:</b>	150KHz to 30MHz
<b>Detector:</b>	Peak for pre-scan (9kHz Resolution Bandwidth) Quasi-Peak if maximized peak within 6dB of Quasi-Peak limit
<b>EUT Operation:</b>	Keep the EUT play 1KHz audio source with IPOD, at the same time keep the LED light on

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Plan View of Test Setup



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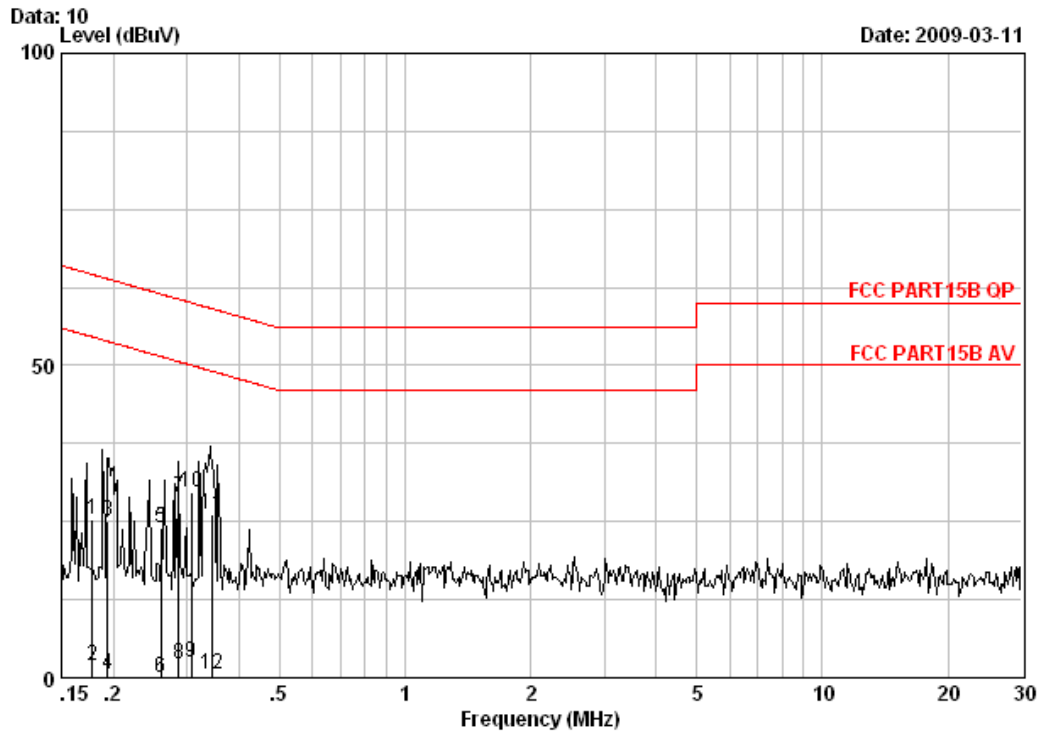
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### Test Data

LISN live line



Site : Shielding Room  
Condition : FCC PART 15B QP CE LINE  
EUT : wireless speaker  
Job No. : 0563RF  
MODE : ON MODE

	Freq	Cable	LISN	Read	Limit	Over	
	MHz	Loss	Factor	Level	Line	Limit	Remark
		dB		dBuV	dBuV	dB	
1	0.17830	0.04	-0.05	25.30	25.29	64.56	-39.27 QP
2	0.17830	0.04	-0.05	2.00	1.99	54.56	-52.57 Average
3	0.19330	0.04	-0.05	25.20	25.19	63.89	-38.70 QP
4	0.19330	0.04	-0.05	0.60	0.59	53.89	-53.30 Average
5	0.26020	0.05	-0.04	24.10	24.10	61.43	-37.32 QP
6	0.26020	0.05	-0.04	0.10	0.10	51.43	-51.32 Average
7	0.28710	0.05	-0.04	28.80	28.81	60.61	-31.80 QP
8	0.28710	0.05	-0.04	2.10	2.11	50.61	-48.50 Average
9	0.30750	0.05	-0.04	2.50	2.51	50.04	-47.53 Average
10 @	0.30750	0.05	-0.04	29.70	29.71	60.04	-30.33 QP
11	0.34430	0.05	-0.04	26.10	26.11	59.10	-32.99 QP
12	0.34430	0.05	-0.04	0.40	0.41	49.10	-48.69 Average

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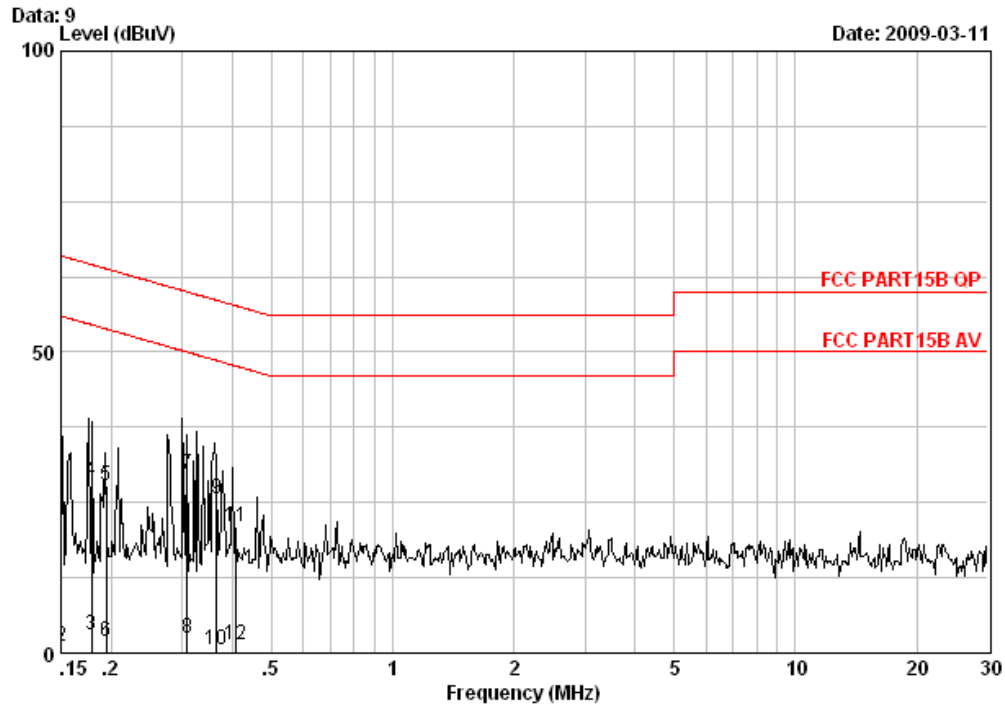


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LISN neutral line



Site : Shielding Room  
Condition : FCC PART 15B QP CE NEUTRAL  
EUT : wireless speaker  
Job No. : 0563RF  
MODE : ON MODE

	Freq	Cable	LISN	Read		Limit	Over	
	MHz	Loss	Factor	Level	Level	Line	Limit	Remark
		dB		dBuV	dBuV	dBuV	dB	
1	0.15060	0.04	-0.05	25.00	24.99	65.97	-40.97	QP
2	0.15060	0.04	-0.05	1.00	0.99	55.97	-54.97	Average
3	0.17880	0.04	-0.04	2.90	2.90	54.54	-51.64	Average
4	0.17880	0.04	-0.04	28.50	28.50	64.54	-36.04	QP
5	0.19470	0.04	-0.04	27.90	27.90	63.83	-35.94	QP
6	0.19470	0.04	-0.04	1.90	1.90	53.83	-51.94	Average
7	0.30920	0.05	-0.04	29.60	29.61	59.99	-30.38	QP
8	0.30920	0.05	-0.04	2.50	2.51	49.99	-47.48	Average
9	0.36560	0.05	-0.04	25.50	25.51	58.60	-33.09	QP
10	0.36560	0.05	-0.04	0.40	0.41	48.60	-48.19	Average
11	0.40820	0.06	-0.04	20.90	20.92	57.68	-36.77	QP
12	0.40820	0.06	-0.04	1.30	1.32	47.68	-46.37	Average

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### 5.3.2 Radiated Emissions

#### 5.3.2.1 Test in transmitting mode

Test Requirement: FCC Part15.249,15.209 and 15.205

Test Method: ANSI C63.4:2003

Measurement Distance: 3m (Semi-Anechoic Chamber)

Frequency range 30 MHz – 25GHz

Test instrumentation resolution bandwidth

Frequency Range	Detector	RBW/VBW
30MHz to 1000MHz	Quasi-Peak	120KHz/300KHz
1GHz to 25GHz	Peak	1MHz/3MHz
	Average	1MHz/10MHz

Operation: Receive antenna scan height 1 - 4 m, polarization Vertical/ Horizontal

Requirement

Fundamental Frequency (MHz)	Field Strength of Fundamental (dBuV/m @ 3m)	Field Strength of Harmonics and Spurious Emissions (dBuV/m @ 3m)
902 to 928	94.0	54.0
2400 to 2483.5	94.0	54.0
5725 to 5875	94.0	54.0
24000 to 24250	108.0	68.0

The fundamental frequency of the EUT is 902MHz to 928MHz

The limit for QP field strength dBuV/m for the fundamental frequency = 94.0 dBuV/m.

No fundamental is allowed in the restricted bands.

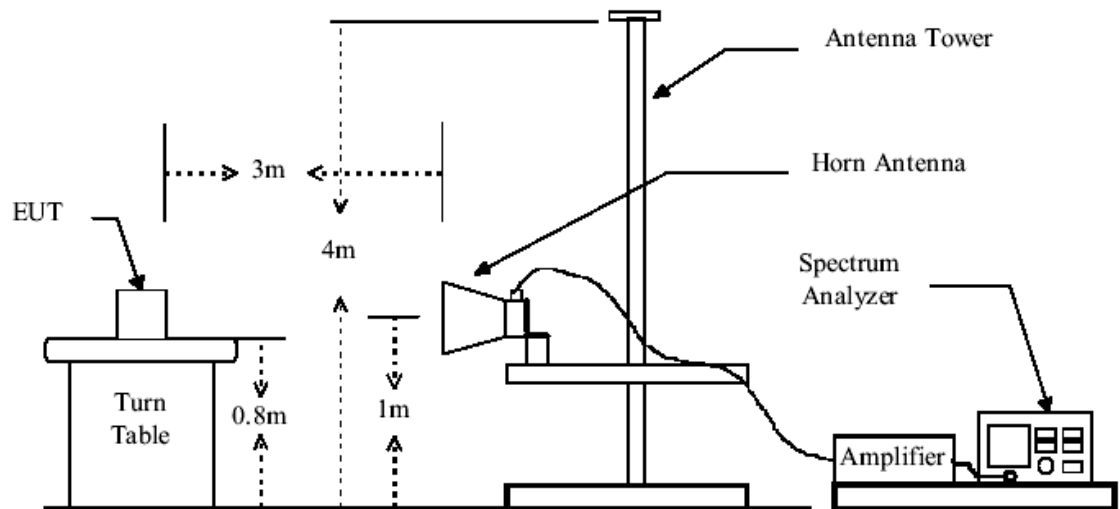
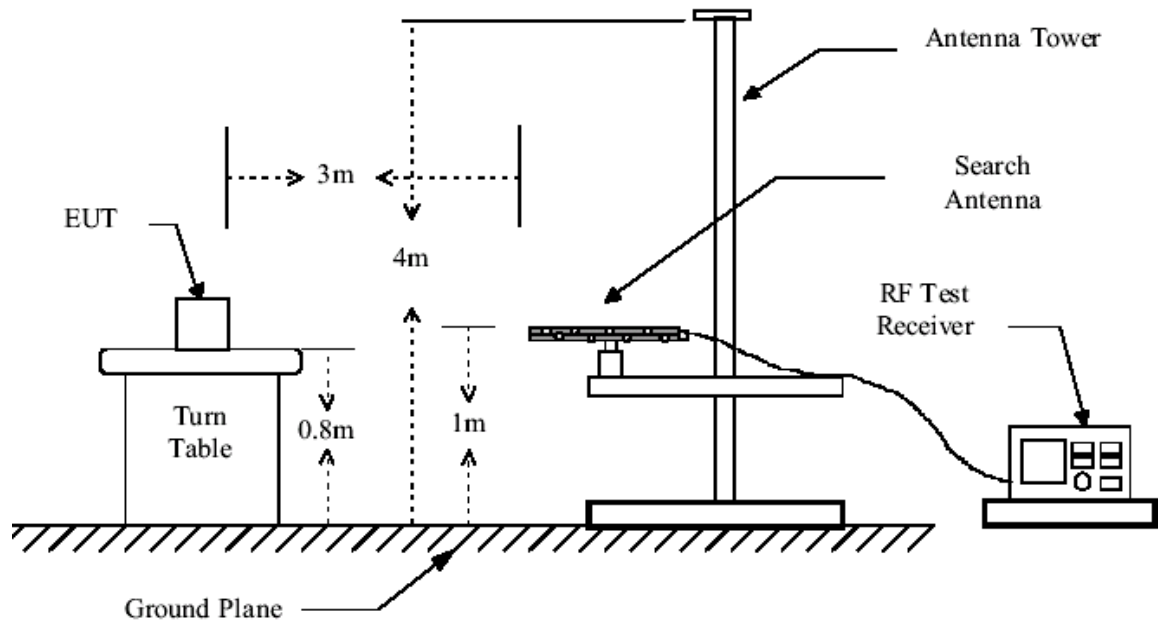
Test Procedure:

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

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### Test Configuration:



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The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

The following test results were performed on the EUT:

1. The following test results were performed at 30MHz—1GHz

Lowest channel (914MHz)

Vertical:

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)
914.000	3.62	23.26	26.43	85.50	85.95	94.00	-8.05
83.350	1.10	8.04	27.98	36.83	17.99	40.00	-22.01
215.270	1.49	11.01	27.07	38.12	23.55	43.50	-19.95
330.700	2.00	14.95	26.95	36.95	26.95	46.00	-19.05
475.230	2.51	17.80	27.64	38.46	31.13	46.00	-14.87

Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)
914.000	3.62	23.26	26.43	82.00	82.45	94.00	-11.55
97.900	1.18	9.02	27.89	36.38	18.69	43.50	-24.81
140.580	1.30	8.15	27.52	38.21	20.14	43.50	-23.36
230.790	1.58	11.70	27.00	37.57	23.85	46.00	-22.15
455.830	2.43	17.09	27.58	44.55	36.49	46.00	-9.51

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Middle channel (914.5MHz)

Vertical:

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)
914.500	3.62	23.26	26.43	87.50	87.95	94.00	-6.05
165.800	1.35	9.54	27.35	39.60	23.14	43.50	-20.36
279.290	1.81	12.98	26.80	38.30	26.29	46.00	-19.71
455.830	2.43	17.09	27.58	40.07	32.01	46.00	-13.99
838.980	3.37	22.40	26.74	38.82	37.85	46.00	-8.15

Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)
914.500	3.62	23.26	26.43	85.50	85.95	94.00	-8.05
173.560	1.36	9.63	27.30	41.74	25.43	43.50	-18.07
215.270	1.49	11.01	27.07	38.12	23.55	43.50	-19.95
332.640	2.01	15.01	26.97	40.98	31.03	46.00	-14.97
475.230	2.51	17.80	27.64	39.46	32.13	46.00	-13.87

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Highest channel (915MHz)

Vertical:

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)
915.000	3.62	23.26	26.43	86.50	86.95	94.00	-7.05
215.270	1.49	11.01	27.07	38.12	23.55	43.50	-19.95
330.700	2.00	14.95	26.95	37.95	27.95	46.00	-18.05
475.230	2.51	17.80	27.64	38.46	31.13	46.00	-14.87
741.980	3.03	21.67	27.13	38.71	36.28	46.00	-9.72

Horizontal

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)
915.000	3.62	23.26	26.43	89.50	89.95	94.00	-4.05
137.670	1.30	8.00	27.54	42.25	24.01	43.50	-19.49
172.590	1.36	9.61	27.31	40.92	24.58	43.50	-18.92
475.230	2.51	17.80	27.64	38.46	31.13	46.00	-14.87
838.980	3.37	22.40	26.74	39.82	38.85	46.00	-7.15

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2. The following test results were performed at above 1GHz

Lowest Channel (914MHz)

Peak Measurement

Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Over limit	polarization
2819	5.09	33.03	44.86	39.51	32.77	74.00	-41.23	Vertical
5590	7.04	34.80	45.64	39.64	35.84	74.00	-38.16	Vertical
6678	7.48	36.25	45.06	42.22	40.89	74.00	-33.11	Vertical
9755	8.64	37.10	42.08	37.23	40.89	74.00	-33.11	Vertical
10775	9.49	38.10	42.43	38.33	43.49	74.00	-30.51	Vertical
16283	12.52	40.99	44.05	38.12	47.58	74.00	-26.42	Vertical
2938	5.09	33.28	44.89	42.41	35.89	74.00	-38.11	Horizontal
5607	7.05	34.82	45.65	43.38	39.60	74.00	-34.40	Horizontal
6950	7.70	36.64	44.78	43.74	43.30	74.00	-30.70	Horizontal
10826	9.50	38.15	42.46	40.32	45.51	74.00	-28.49	Horizontal
15331	11.76	40.15	44.91	41.45	48.45	74.00	-25.55	Horizontal
17082	12.83	41.08	42.95	40.33	51.29	74.00	-22.71	Horizontal

Average Measurement

Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Over limit	polarization
3006	5.09	33.40	44.90	27.46	21.05	54.00	-32.95	Vertical
3839	5.93	33.34	45.10	26.99	21.16	54.00	-32.84	Vertical
5522	7.01	34.72	45.62	27.98	24.09	54.00	-29.91	Vertical
6967	7.71	36.67	44.76	29.61	29.23	54.00	-24.77	Vertical
12730	10.70	39.15	44.23	25.72	31.34	54.00	-22.66	Vertical
17252	13.06	41.20	42.71	25.09	36.64	54.00	-17.36	Vertical
2360	4.93	32.22	44.75	27.40	19.80	54.00	-34.20	Horizontal
3006	5.09	33.40	44.90	27.51	21.10	54.00	-32.90	Horizontal
6967	7.71	36.67	44.76	29.67	29.29	54.00	-24.71	Horizontal
10894	9.51	38.20	42.51	25.64	30.84	54.00	-23.16	Horizontal
12730	10.70	39.15	44.23	25.75	31.37	54.00	-22.63	Horizontal
16912	12.71	41.08	43.18	25.30	35.91	54.00	-18.09	Horizontal

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Middle channel (914.5MHz)

### Peak Measurement

Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamplifier factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Over limit	polarization
2666	5.10	32.68	44.82	41.51	34.47	74.00	-39.53	Vertical
3363	5.50	33.25	44.99	41.25	35.01	74.00	-38.99	Vertical
4519	6.49	34.09	45.31	42.34	37.61	74.00	-36.39	Vertical
6627	7.44	36.17	45.11	44.78	43.28	74.00	-30.72	Vertical
11030	9.55	38.29	42.61	40.71	45.94	74.00	-28.06	Vertical
16623	12.66	41.32	43.58	39.46	49.86	74.00	-24.14	Vertical
3074	5.17	33.37	44.92	41.40	35.02	74.00	-38.98	Horizontal
4451	6.44	34.05	45.28	41.32	36.53	74.00	-37.47	Horizontal
6678	7.48	36.25	45.06	44.20	42.87	74.00	-31.13	Horizontal
10350	9.26	37.72	42.12	39.92	44.78	74.00	-29.22	Horizontal
12407	10.23	39.04	43.82	40.18	45.63	74.00	-28.37	Horizontal
16810	12.69	41.16	43.32	39.80	50.33	74.00	-23.67	Horizontal

### Average Measurement

Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamplifier factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Over limit	polarization
3125	5.23	33.35	44.93	27.24	20.89	54.00	-33.11	Vertical
5131	6.77	34.19	45.50	27.54	23.00	54.00	-31.00	Vertical
6967	7.71	36.67	44.76	29.64	29.26	54.00	-24.74	Vertical
10724	9.48	38.08	42.39	25.48	30.65	54.00	-23.35	Vertical
12730	10.70	39.15	44.23	25.72	31.34	54.00	-22.66	Vertical
15926	12.28	40.48	44.50	26.17	34.43	54.00	-19.57	Vertical
2972	5.09	33.35	44.89	27.45	21.00	54.00	-33.00	Horizontal
4383	6.38	33.94	45.26	27.12	22.18	54.00	-31.82	Horizontal
6151	7.26	35.52	45.61	28.58	25.75	54.00	-28.25	Horizontal
6967	7.71	36.67	44.76	29.63	29.25	54.00	-24.75	Horizontal
9347	8.34	36.71	42.45	25.62	28.22	54.00	-25.78	Horizontal
12730	10.70	39.15	44.23	25.74	31.36	54.00	-22.64	Horizontal

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Highest Channel (915MHz)

### Peak Measurement

Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamplifier factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Over limit	polarization
2683	5.10	32.72	44.82	42.21	35.21	74.00	-38.79	Vertical
4111	6.15	33.56	45.18	42.62	37.15	74.00	-36.85	Vertical
6899	7.66	36.56	44.83	44.32	43.71	74.00	-30.29	Vertical
10775	9.49	38.10	42.43	40.02	45.18	74.00	-28.82	Vertical
15654	11.96	40.37	44.69	40.33	47.97	74.00	-26.03	Vertical
17711	13.33	41.88	42.08	40.81	53.94	74.00	-20.06	Vertical
2615	5.10	32.58	44.81	42.05	34.92	74.00	-39.08	Horizontal
5318	6.89	34.45	45.56	42.56	38.34	74.00	-35.66	Horizontal
6899	7.66	36.56	44.83	43.69	43.08	74.00	-30.92	Horizontal
10367	9.28	37.72	42.13	40.59	45.46	74.00	-28.54	Horizontal
12679	10.61	39.14	44.17	40.16	45.74	74.00	-28.26	Horizontal
16606	12.66	41.32	43.60	39.43	49.81	74.00	-24.19	Horizontal

### Average Measurement

Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamplifier factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Over limit	polarization
2445	5.03	32.27	44.77	27.32	19.85	54.00	-34.15	Vertical
4060	6.11	33.49	45.16	26.99	21.43	54.00	-32.57	Vertical
8276	8.13	36.00	43.43	26.41	27.11	54.00	-26.89	Vertical
10673	9.47	38.03	42.35	25.44	30.59	54.00	-23.41	Vertical
12730	10.70	39.15	44.23	25.70	31.32	54.00	-22.68	Vertical
16912	12.71	41.08	43.18	25.27	35.88	54.00	-18.12	Vertical
3006	5.09	33.40	44.90	27.40	20.99	54.00	-33.01	Horizontal
4485	6.47	34.08	45.29	27.11	22.37	54.00	-31.63	Horizontal
6967	7.71	36.67	44.76	29.59	29.21	54.00	-24.79	Horizontal
9806	8.68	37.14	42.03	25.44	29.23	54.00	-24.77	Horizontal
12730	10.70	39.15	44.23	25.73	31.35	54.00	-22.65	Horizontal
16402	12.58	41.24	43.89	25.81	35.74	54.00	-18.26	Horizontal

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N/A: refer to remark 1).

Remark:

- 1). For this intentional radiator operates below 1 GHz, the spectrum shall be investigated to the tenth harmonic of the highest fundamental frequency. And above the harmonic of this intentional radiator, the disturbance is very low. So the test result only displays to the above 6 maximum points
- 2). According to 15.249 (e) As shown in Section 15.35(b), for frequencies above 1000 MHz, the above field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

TEST RESULTS: The unit does meet the FCC requirements.

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### 5.3.3 Occupied Bandwidth

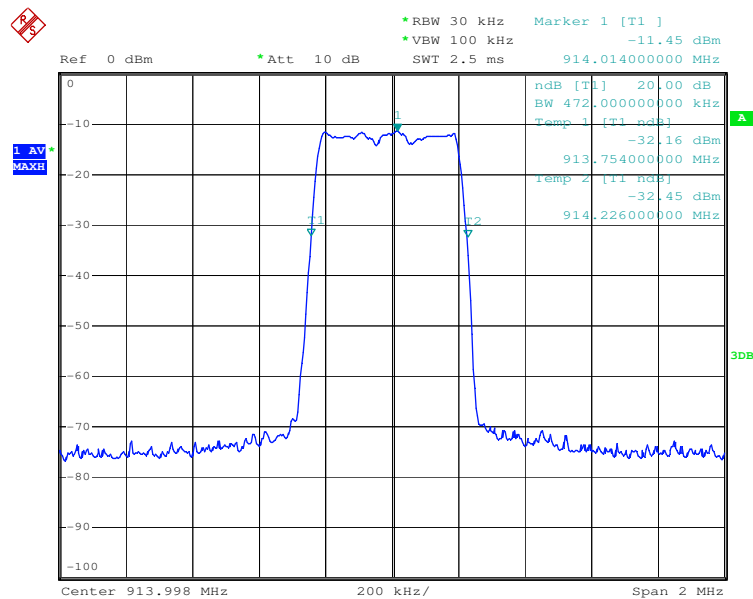
Test Requirement: FCC Part 15.249

Test Method: ANSI C63.4:2003

Operation within the band 902MHz to 928MHz

The occupied bandwidth as below:

Lowest Channel



Date: 26.FEB.2009 13:32:44

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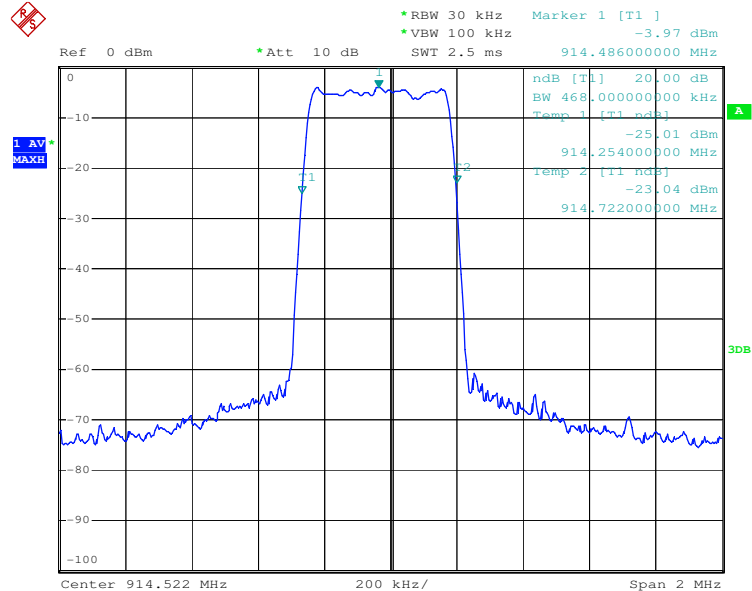


## SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEMO09020056301

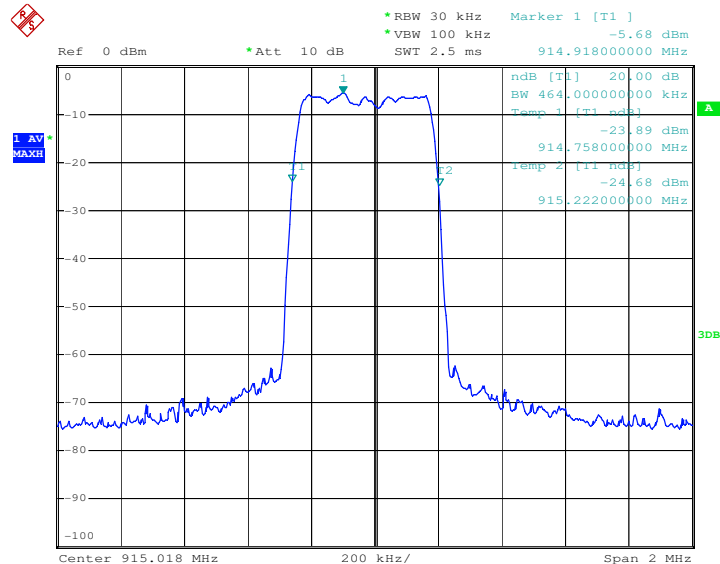
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### Middle Channel



Date: 26.FEB.2009 13:33:49

### Highest Channel



Date: 26.FEB.2009 13:34:41

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