

FCC and IC referenMeasurement Procedure & Test Equipment Used

Except where otherwise stated, all measurements are made following the Electronic Industries Association (EIA) Minimum Standard for Portable/Personal Land Mobile Communications FM or PM Equipment 25-1000 MHz-(EIA/TIA-603-D).

This exhibit presents a brief summary of how the measurements were made, the required limits, and the test equipment used.

The following procedures are presented with this application.

1. Radiated Spurious Emissions

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1. Test Equipment List**Measurement Equipment List-** Pursuant To FCC Rules 2.947 (d)

Description	Model #	Serial Number	Calibration Date	Calibration Due Date
Microwave Generator	SMP 04	100131	24-Jun-14	24-Jun-15
Spectrum Analyzer/ESI Test Receiver	ESIB 26	100336	18-Jun-14	18-Jun-15
Bilog Antenna [30MHz-2GHz]	CBL6112B	2950	17-Oct-14	17-Oct-15
Bilog Antenna [30MHz-2GHz]	CBL6112B	2863	17-Jul-14	17-Jul-15
DRG Horn Freq. 700MHz-18GHz	SAS-571	1143	10-Jun-14	10-Jun-15
DRG Horn Freq. 700MHz-18GHz	SAS-571	1027	17-Oct-14	17-Oct-15
Temp/Humidity Monitor	TM 320	12249289	12-Nov-14	12-Nov-15
SAC (5m Semi-anechoic Chamber)	S800-HX	J2308	Jun-14	Jun-15
Antenna Positioning Tower (Boresight)	TLT2	NA	No Cal. Req'd	No Cal. Req'd
System controller	SC104V	050806-1	No Cal. Req'd	No Cal. Req'd
Turntable. Flush Mount 2M	FM2011	NA	No Cal. Req'd	No Cal. Req'd
Pre-amplifier	PAM-0118	270A	No Cal. Req'd	No Cal. Req'd

Table 1: List of equipment used

Test Name	FCC Rules Part (47 CFR)	IC Rules
* RF Power Output Data	2.1046(a), 2.1033(c)(6), 2.1033(c)(7) and 2.1033(c)(8) * 90.545(b)(4) (700MHz) * 22.565(f) (VHF & UHF), * 24D (900MHz)	RSS-Gen Sec 6.12, RSS-119 Sec 5.4.1, * RSS 134 (900MHz)
* TX Audio Frequency Response	2.1047 and 2.1033(c)(13)	-
* TX Audio Low Pass Filter Response	2.1047	-
* Modulation Limiting	2.1047	-
* Occupied Bandwidth	2.1049, 90.210, * 90.691 (800MHz), * 22.359 (b) (VHF & UHF), * 24D (900MHz)	RSS GEN Sec 6.6, RSS 119 Sec 5.5, * RSS 134 (900MHz)
* TX Conducted Spurious Emissions	2.1051, 90.210, * 22.359(a) (VHF & UHF), * 24D (900MHz) 80 (VHF)	RSS GEN Sec 6.13, RSS 119, * RSS 134 (900MHz) * RSS 182 (VHF)
TX Radiated Spurious Emissions	2.1053, 90.210, * 22.359(a) (VHF & UHF), * 24D (900MHz)	RSS GEN Sec 6.13, RSS 119 Sec 4.2, 5.8, * RSS 134 (900MHz)
* Frequency Stability (Temp / Supply Voltage)	2.1055, 90.213, * 22.355 * 90.539 (700MHz)	RSS GEN Sec 6.11, RSS 119 Sec 5.3

Table 2: List of FCC and IC reference

** Note: Not Applicable for this filing*

1 Radiated Spurious Emissions

Radiated spurious emissions were measured by Motorola Plantation EMC Lab. Measurements were made at an approved open field test site constructed in accordance with Appendix B, FCC/OST 55 (1982), and were performed in accordance with the Code of Federal Regulations, Title 47, Part 2, paragraph 2.1053. The data is plotted as "Radiated Spurious Emissions" on the graphs. The specification limit corresponding to a level of 50 dB + 10log (Pout) for 12.5 kHz Channel Spacing below the fundamental carrier power of the transmitter as indicated on each graph for reference.

Adjust the spectrum analyzer for the following settings:

Resolution Bandwidth = 100 kHz for spurious emissions below 1 GHz, and 1 MHz for spurious emissions above 1GHz.