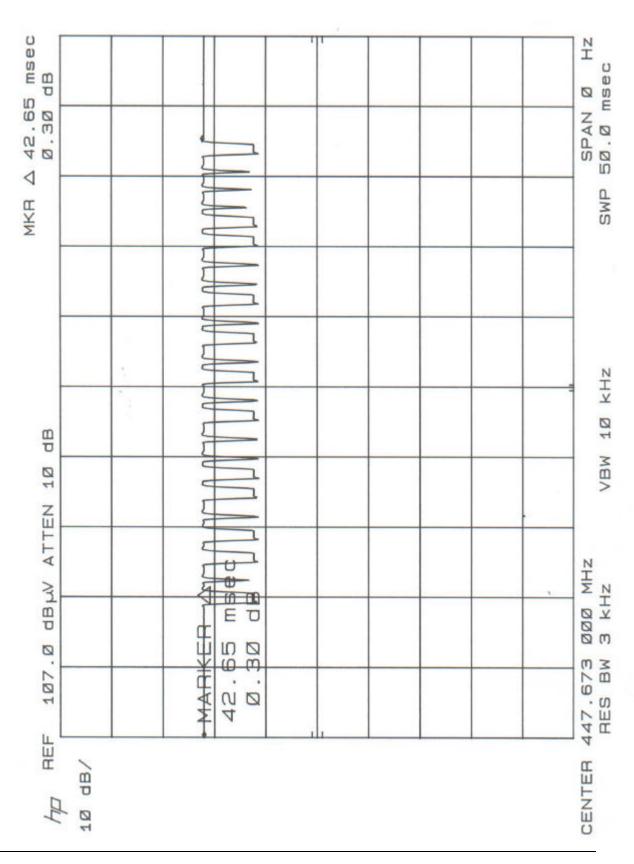
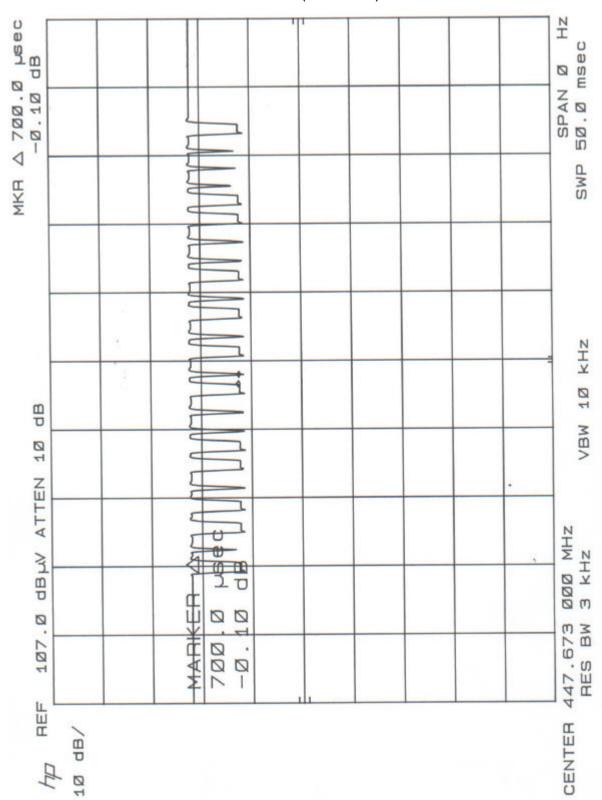
No Automatic Pulse Mode Pulse Train = 42.65msec



No Automatic Pulse Mode Minimum Pulse Width (Individual) = 700usec



3.1.7 Occupied Bandwidth

REPORT: RV38020

The transmitter's occupied bandwidth at (447 MHz) was measured with respect to the 20dB down point of the center frequency. Part 15.231 (c) stipulates that emissions shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 and shall be attenuated by at least 20 dB below the level of the fundamental or to the general radiated emission limits in Part 15.209, whichever is the lesser attenuation. Part 15.209 (a) specifies that the emissions from an intentional radiator shall not exceed the field strength levels in the 216 to 960 MHz band of 200 uV/m (46 dBuV/m).

When transmitting at 447.64 MHz, emissions measured at the 0.25% bandwidth of 447.64 MHz (band edge) were 45.1 dBuV/m (< 46 dBuV/m).

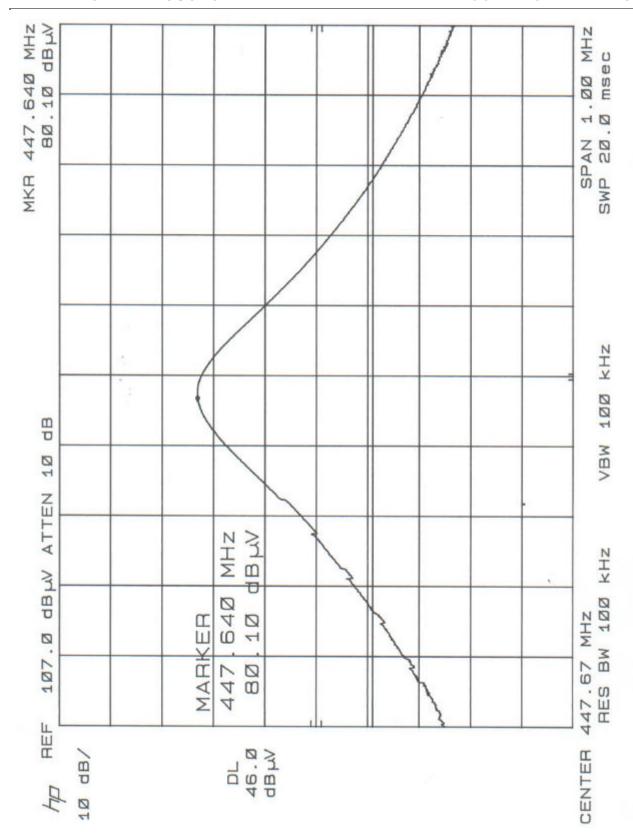
Lower band edge calculated as 446.5209 MHz Lower 20dB down point is 447.440 MHz (Between 446.521 and 448.759 MHz) Transmitting signal fall below 37dBuV/m at 447.375 MHz (<46 dBuV/m)

Upper band edge calculated as 448.7591 MHz
Upper 20dB down point is 447.84 MHz (Between 446.521 and 448.759 MHz)
Transmitting signal falls below 37dBuV/m at 447.924 MHz (<46 dBuV/m)

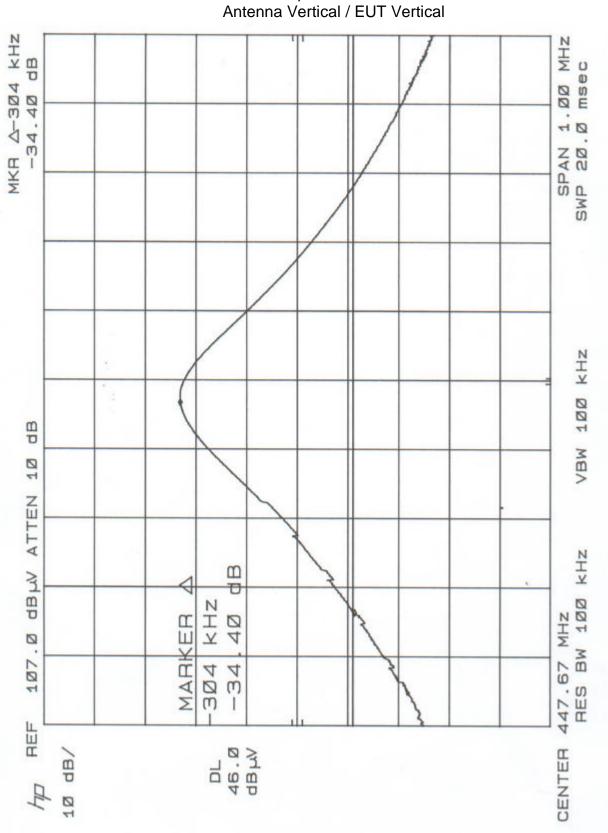
Plots showing the occupied bandwidth are provided on pages 28 thru 39.

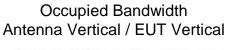
REPORT: RV38020 FCC ID: JBWTXFM5

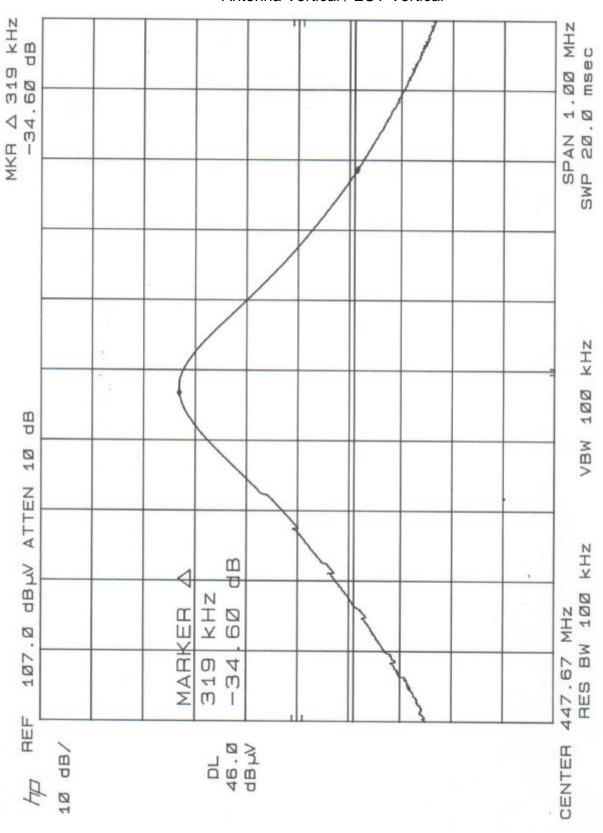
Occupied Bandwidth Antenna Vertical / EUT Vertical



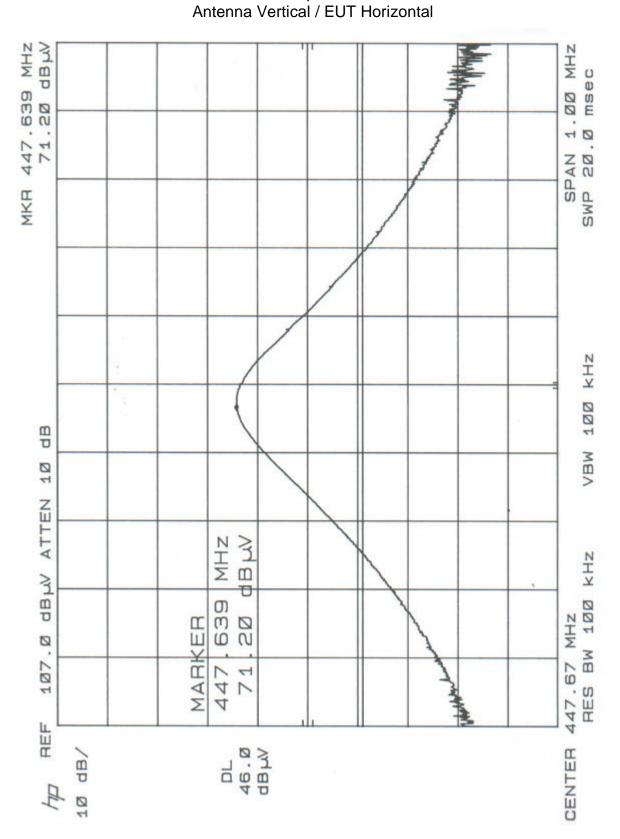
Occupied Bandwidth



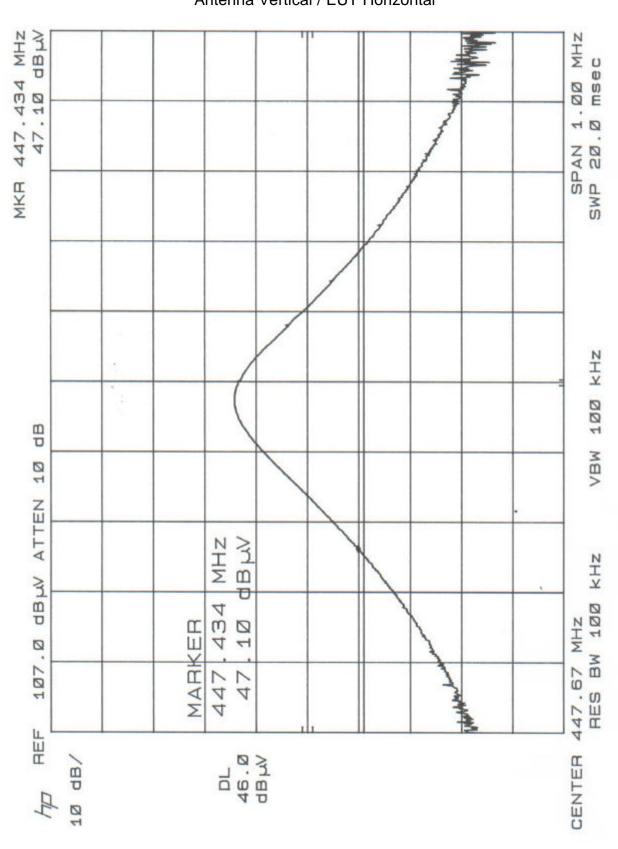




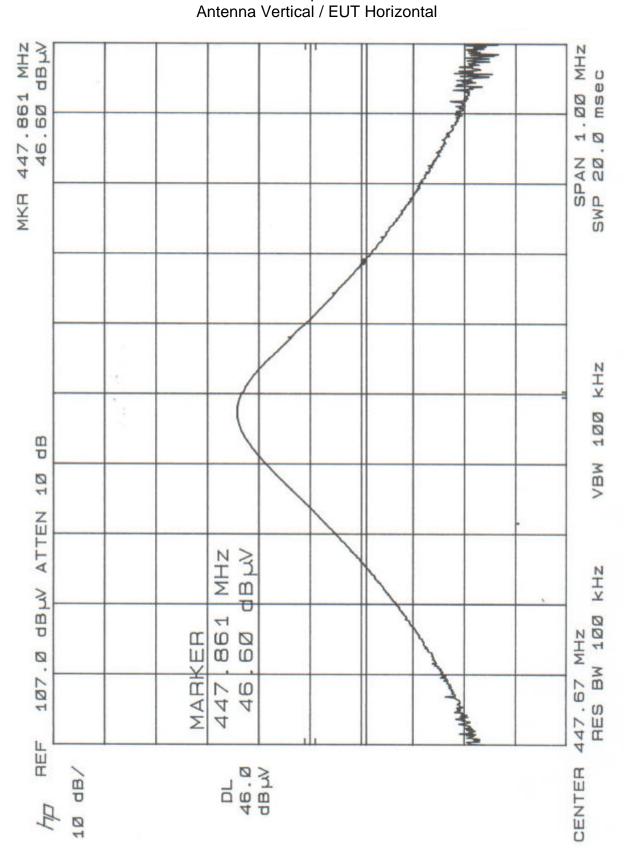
Occupied Bandwidth



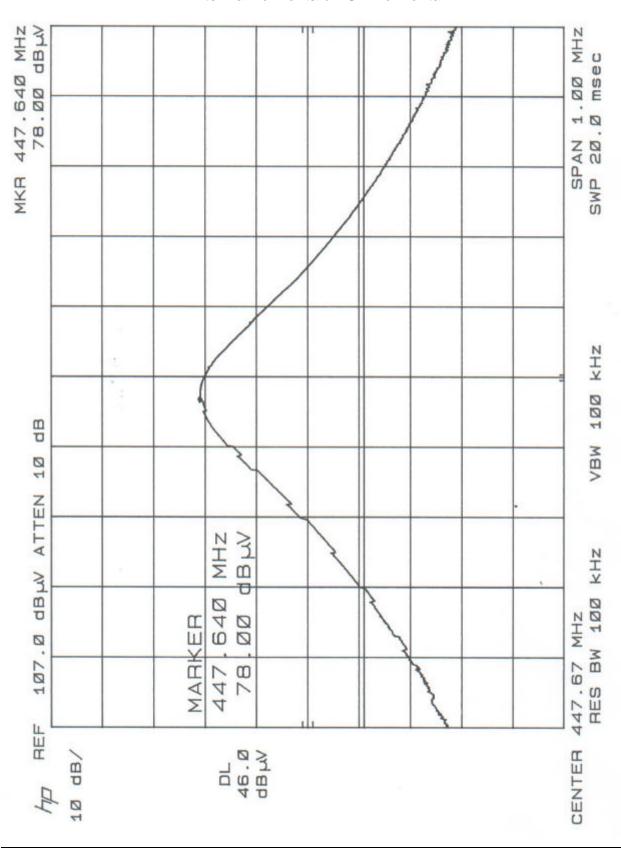
Occupied Bandwidth Antenna Vertical / EUT Horizontal



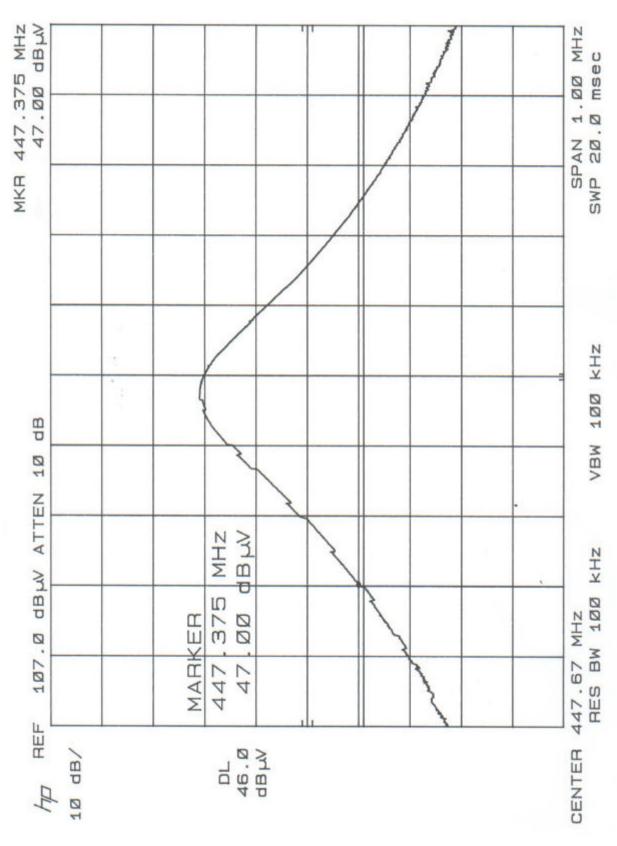
Occupied Bandwidth



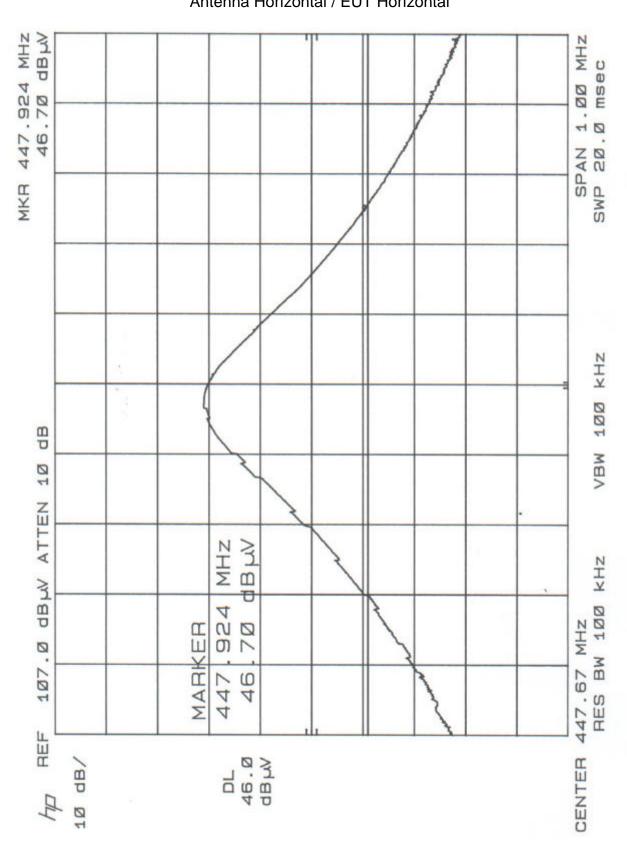
Occupied Bandwidth Antenna Horizontal / EUT Horizontal



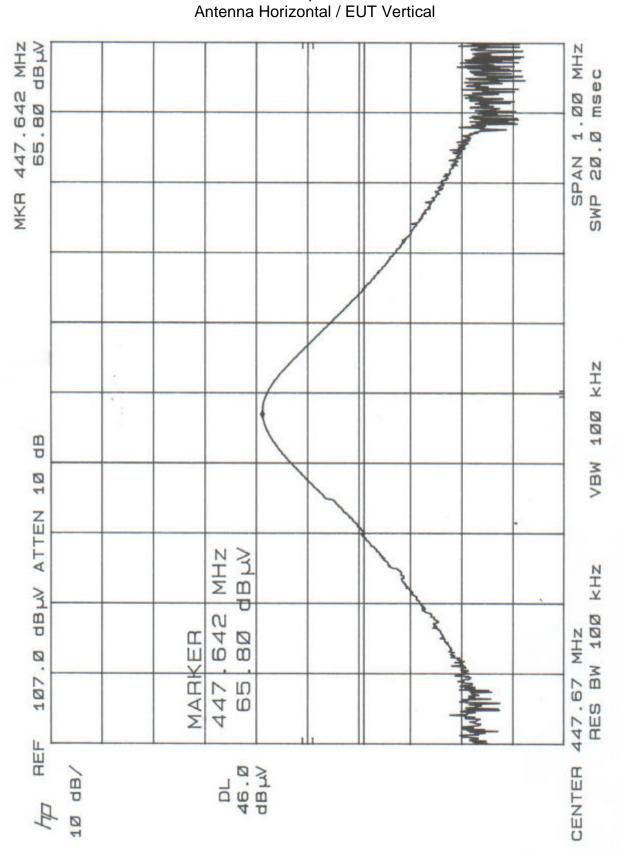
Occupied Bandwidth Antenna Horizontal / EUT Horizontal



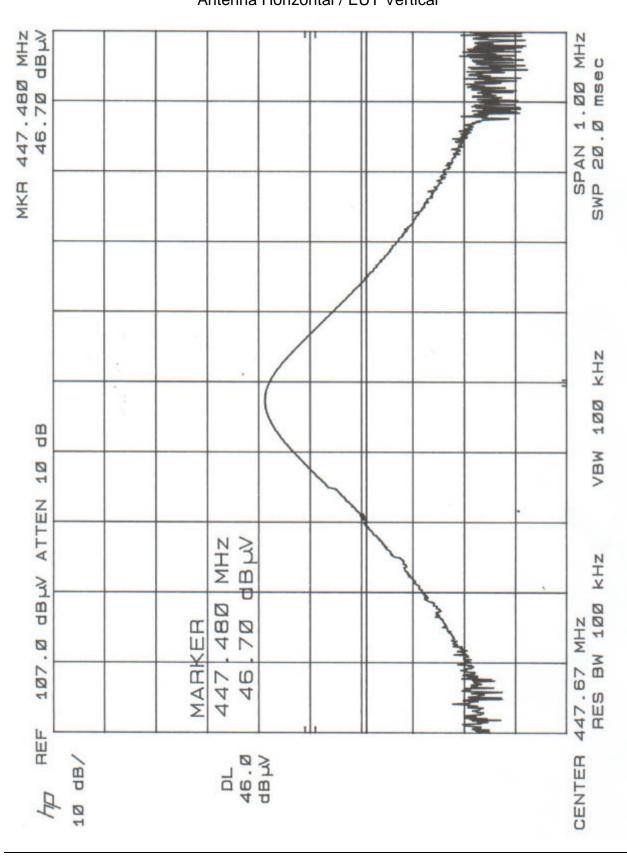
Occupied Bandwidth Antenna Horizontal / EUT Horizontal



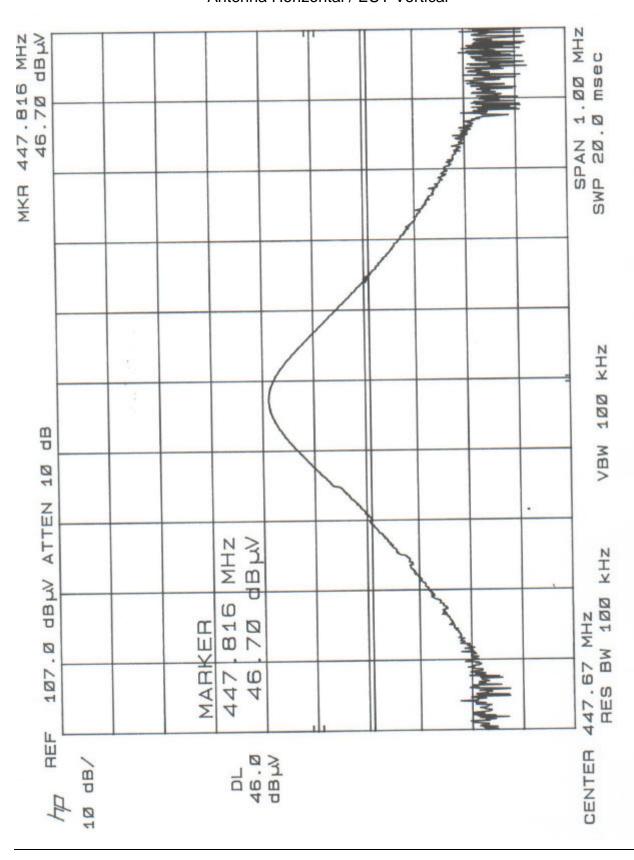
Occupied Bandwidth



Occupied Bandwidth Antenna Horizontal / EUT Vertical



Occupied Bandwidth Antenna Horizontal / EUT Vertical



3.1.8 Photographs of Radiated Test Setup – per 2.1033(b)(7)

REPORT: RV38020

Radiated Emissions, Fundamental (and Harmonics)



Horizontal Polarization EUT in position 1



Vertical Polarization EUT in position 2

Radiated Emissions, Fundamental (and Harmonics) 30-200 Mhz (Biconical Antenna)



Radiated Emissions, Fundamental (and Harmonics) 200-1000 Mhz (Log Periodic Antenna)



Radiated Emissions, Fundamental (and Harmonics) 1000-18000 Mhz (DRG Horn Antenna)



4. LABELING REQUIREMENTS - PER 2.1033(B)(7)

Label will be constructed of 0.02-inch plastic attached as shown on the equipment with permanent adhesive.

All information on the label will be etched or screened. All methods will exceed the expected lifetime of the equipment.

The label will be large enough to allow all information to be readily legible.

4.1 Additional Label Required

REPORT: RV38020

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Shown above is a copy of the label with the Part 15.19 Compliance Statement, Location of required information is checked "below".

The label will be placed in a conspicuous location on the device.

4.2 Photograph of Label Placement and Contents

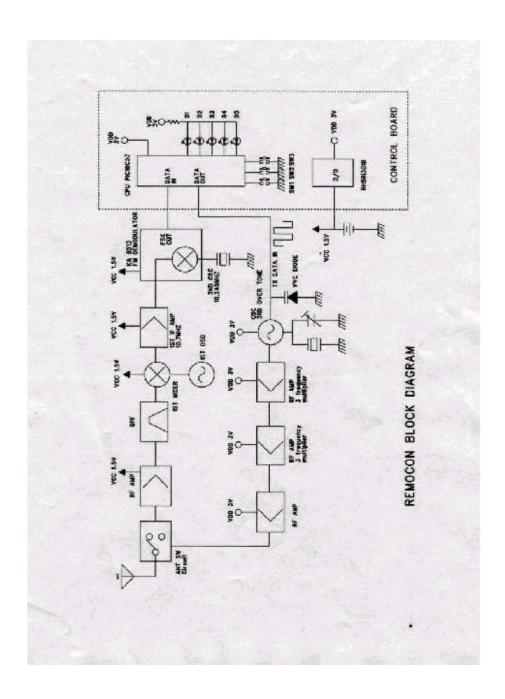
Because of the small size of this device the information in 4.1 may be placed in the documentation provided to the user. The FCC ID shall be placed upon the unit. This is in accordance with FCC Part 15.19 (a) (5).

FCC ID Label

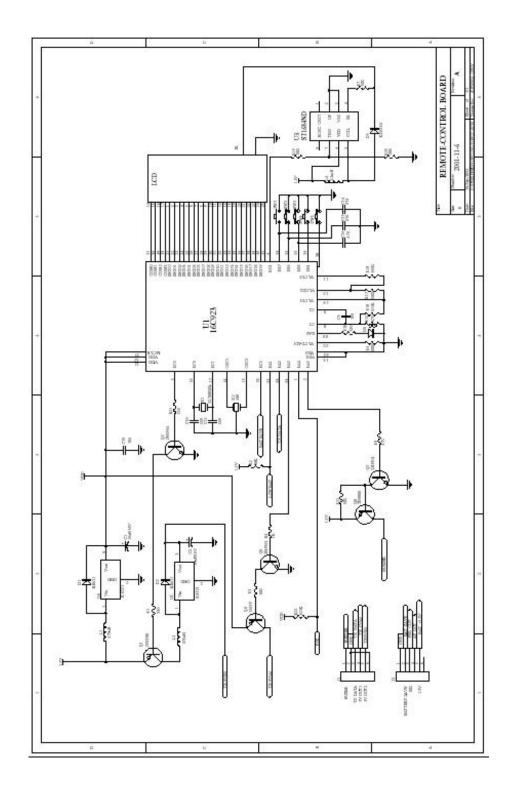
FCC ID:JBWTXFM5
This device complies
with FCC rules part 15



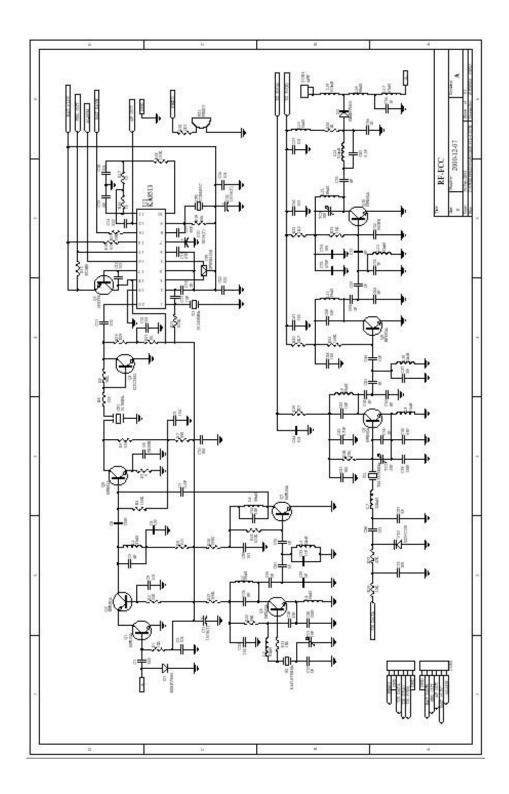
5. SCHEMATIC DIAGRAMS











UNCERTAINTY TOLERANCE

DNB Engineering's Riverside Facility (3 and 10 meter Open Area Test Sites) are within acceptable uncertainty tolerances per ANSI C63.4 (1992) sections 5.4.6.1 and 5.4.6.2.

FCC ID: JBWTXFM5

ANSI C63.4 (1992)

5.4.6.1 Site Attenuation. A measurement site shall be considered acceptable for radiated electromagnetic field measurements if the horizontal and vertical NSA derived from measurements, i.e., the "measured NSA," are within ?4 dB of the theoretical NSA (5.4.6.3) for an ideal site.

5.4.6.1 NSA Tolerance. The ?4 dB tolerance in 5.4.6.1 includes instrumentation calibration errors, measurement technique errors, and errors due to site anomalies. These errors are analyzed in ANSI C63.6-1988 [3], wherein it is shown that the performance of a well-built site contributes only 1 dB of the total allowable tolerance.

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INFORMATION PERTAINING TO EQUIPMENT MANUFACTURED AFTER COMPLIANCE TESTING

It is prudent that manufacturers have an established Quality Assurance program to spot check their products on a periodic basis, either based upon time or quantities produced. Obviously, a change in the engineering design should be sufficient justification for a re-test.

The Quality assurance test need not be formal Verification or Certification such as required during the initial production of the product. However, it should be sufficient in scope to assure that the EMI characteristics of the product have not changed to the degree that the product exceeds the FCC limits. If a new model of a product is produced, it must undergo full Verification or Certification testing and, in case of Certification, be filed with the FCC.

It is expected that the FCC will place greater emphasis and resources in spot checking commercially available products. If a product is found not to be compliant with the Limits specified in Part 15, Subpart B. the manufacturer will be subject to the appropriate penalties imposed by the Commission. The initial Certification or Verification is sufficient to justify initial production. The additional quality assurance testing performed is the manufacturer's responsibility to assure continued compliance.

Appendix A

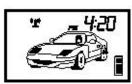


FM 2-WAY TRANSMITTER

Transmitter Operation

- ARM/DISARM/PANIC Button To arm or disarm the system, press button I. To activate the panic feature, press button I and hold for three seconds.
- 2 START Button To start the vehicle, press and hold button 2 for two seconds. To shut down the vehicle, press and hold button 2 for two seconds.
- 3 TRUNK Button To activate the trunk output, press and button 3 for two seconds.
- 4 AUXILIARY 2 Output To activate the Aux. 2 output, press and hold button 4 for two seconds.
- 5 CONFIRMATION Button To check current status of the system, press buttons 2 & 3. The current status of the system will be displayed & illuminated on the transmitter.

Transmitter Indications



Arm -

The display will show icon and the animated icon icon to confirm arming. Lights will flash once.



Shock Sensor -

The display will show Shock and flash the animated icon to indicate shock sensor triggering.

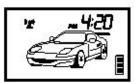


Disarm -

The display will show and the animated to confirm disarming. Lights will flash twice.



Door .



Trunk -

The display will show —— and flash this icon opening to confirm.



Hood -

If the hood or trunk is opened while the system is armed, the icon will show and the lights will flash.



Warn Away -

If the warning stage is triggered, the Epicon will flash.



Panic -

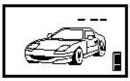
The display will show PTN
when the Arm/Disarm button is
held to enter the Panic mode.

Transmitter Indications Continued



Start -

The display F will indicate the ignition is turned on and the engine is going to crank.



Set Clock -

Press and hold buttons 2 & 3 for 2 seconds. The transmitter will beep twice and the display will show — — . Change hour by pressing button 2; change minute

by pressing button 3. Press button #5 (Confirm Status) to set. The transmitter will play a tune to indicate new time is set.



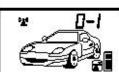
Engine Run -

When the engine starts and continues to run, the 🛐 icon will be displayed, and the 🕏 icon will remain displayed.



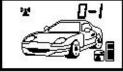
Valet Mode -

The display will show -- U to confirm entering the Valet mode.



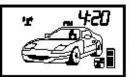
Aux. 2 Output -

The display will show **U-1** to confirm the Auxiliary 2 Output.



Lock (Valet) -

If the doors are locked with the transmitter in Valet mode, the display will show 👩 to confirm locking,



Unlock (Valet) -

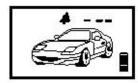
If the doors are unlocked with the transmitter in Valet mode, the display will show the 🔓 icon to confirm unlock



Low Battery -

When the transmitter battery needs replacement, the display will flash the 🔲 icon.

Continue to hold buttons 2 & 3 to:



Set Alarm Clock -

Press and hold buttons 2 & 3 until the transmitter beeps three times and the alarm clock icon (4) appears. Confirm the same way as setting clock.

Turning Off Alarm Clock -

Press and hold buttons 2 & 3 until the transmitter beeps three times and the alarm clock icon appears. Press transmitter button 1. The icon will disappear and the alarm will be turned off.

Continue to hold buttons 2 & 3 to:



Set Start Timer -

Press and hold buttons 2 & 3 until the transmitter beeps four times and the fan icon () appears. Set the start timer the same way as setting the clock. The fan icon will

remain displayed when set.

Turning Off Start Timer -

Press and hold buttons 2 & 3 until the transmitter beeps four times and the alarm clock icon appears. Press transmitter button 1. The icon will disappear and the alarm will be turned off.