

SAR Test Report for Motorola's 800 / 1900 MHz DualBand Linear RF Compensator, Model #  
SYN9528A, FCC ID IHDA56CK1

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Motorola and TRL Technologies, Inc. Product Safety Laboratory has reviewed the 800 / 1900 MHz DualBand Linear RF Compensator, FCC ID IHDA56CK1, for the need to conduct SAR evaluation. Due to the design and installation of this product, it qualifies for the exclusion called out in 2.1091.

The 800 / 1900 MHz DualBand Linear RF Compensator is operated as a mobile device as defined in 2.1091(b) based on its design and installation. The compensator is installed into a vehicle such that it is physically secured and is generally located more than 20 cm from the end-user. This information is included in the user manual. It is suggested that the antenna be installed such that there is at least 20 cm of separation between the occupants of the vehicle and the antenna.

The 800 / 1900 MHz DualBand Linear RF Compensator has maximum transmitted conducted power of 0.8W in cellular and 1W in PCS band GSM mode, respectively. The mobile antenna supplied with the transceiver has a maximum gain of 2.1 dBi, and minimum cable loss of 1.0 dB, together resulting in a total ERP of a little more than 1W in cellular band and less than 2W in PCS band. Since the transmit cellular band (824-849 MHz) is below 1.5 GHz and its ERP with the supplied antenna is below 1.5W and transmit PCS band (1850-1910 MHz) is above 1.5 GHz and its ERP with the supplied antenna is below 3W, the 800 / 1900 MHz DualBand Linear RF Compensator is categorically excluded from routine environmental evaluation per 2.1091(c).