

## EMC Test Equipment Recognized by Ford Motor Company

Unless explicitly stated in Ford specification EMC-CS-2009 or in the table below, EMC testing may be facilitated by a variety of commercially available test equipment. However, certain pieces of test equipment have been evaluated by Ford Motor Company and found to be acceptable for use when performing EMC testing per EMC-CS-2009.

Equipment Description / Model Number	Manufacturer	Relevant Test Requirement	Comment
<u>EMI Receiver</u> ESU (FFT option) Firmware rev 4.43 SP2	Rohde & Schwarz	RE 310 CE 420 CE 421	The ESU with the Fast Fourier Transform (FFT) option has the capability for performing radiated emissions measurements (i.e. RE 310, CE 420) significantly faster than a conventional EMI receiver. However, this feature is limited for measurements utilizing Peak or Average detection.  <b>At this time, Ford Motor Company will <u>only</u> accept FFT based RF measurements from the ESU receiver. FFT based measurements are limited to use of Peak or Average detection.</b>
<u>Coupling Fixture</u> RSA TS-RI130-Fix	Rohde & Schwarz	RI 130 RI 150	The fixture facilitates improved testing regardless of the number of interface circuits of the product.
<u>Coupling Fixture</u> TF 130-150	Schwarzbeck		
<u>Transmit Antenna</u> 3162-01, 3162-02	ETS- Lindgren	RI 114 (Bands 6, 7)	Use of these antennas has been found to facilitate generation of 600 V/m with less than 500 watts forward power.
<u>Transmit Antenna</u> AT 4510	Amplifier Research		
<u>Transmit Antenna</u> EMC600P1, EMC600P3	Maspro Denkoh Corp.		

### EMC Test Equipment Recognized by Ford Motor Company (cont)

Equipment Description / Model Number	Manufacturer	Relevant Test Requirement	Comment
<u>Receive Antenna</u> DRG 3115	ETS Lindgren	RI 114 (Bands 6, 7)	<b>Use of alternative antennas must be first approved by Ford Motor Company</b>
<u>Receive Antenna</u> DRG 118/A	Amplifier Research		
<u>Receive Antenna</u> HF906	Rohde & Schwarz		
<u>Transmit Antenna</u> SBA 9113 with 420 NJ elements	Schwarzbeck	RI 115	<b>Antenna is explicitly required by Ford Motor Company for this requirement. There are no alternative antennas permitted.</b>
<u>Transient Generator</u> NSG 5071	Teseq AG	RI 130 CI 220	Generator designed per Annex F of EMC-CS-2009.
<u>Transient Generator</u> RCB200N1	EMTest	CI 250	
<u>Amplifier</u> Techron 7224	A.E. Techron	RI 140 RI 150 CI 210 CI 230 CI 250 CI 260	Bandwidth > 200 kHz.