

## Common EMC Test Equipment Used for testing per Ford EMC Requirements

Unless explicitly stated in Ford specification FMC1278 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 FMC1278. The information provided is to only provide assistance to the test laboratory in locating certain equipment to facilitate testing to specific Ford unique requirements.

Equipment Description / Model Number	Manufacturer	Relevant Test Requirement	Comment
<u>Coupling Fixture</u> RSA TS-RI130-Fix	Rohde & Schwarz	RI 130 RI 150	The commercially available fixtures listed have been verified by Ford that they have been constructed using the correct materials and all of the dimensional requirements are correct.  The laboratory may construct their own fixture, however verification must be provided to Ford that the fixture has been constructed using the correct materials and all of the dimensional requirements are correct.
<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>Transmit Antenna</u> QSH6B20WA QSH9AB20WA	Q-par Angus Ltd.	RI 114 (Bands 6, 7)	Use of this antenna has been found to facilitate generation of 600 V/m with less than 500 watts forward power.
<u>Transmit Antenna</u> SBA 9113 with 420 NJ elements	Schwarzbeck	RI 115	Antenna is explicitly required by Ford Motor Company for this requirement. There are no alternative antennas permitted.
<u>Transient Generator</u> NSG 5071	Teseq AG	RI 130 CI 220	Generator designed per Annex E of FMC1278
<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 231 CI 250 CI 260	Bandwidth > 200 kHz.