



American Telecommunications Certification Body Inc.  
6731 Whittier Ave, McLean, VA 22101

June 3, 2007

RE: TRW Automotive

IC: GQ4-38T

After a review of the submitted information, I have a few comments on the above referenced Application. Depending on your responses, kindly understand there may be additional comments.

- 1) The block diagram should show the frequencies of all oscillators in the TX device (CFR 2.1033(a)(5)). Please update the list of confidential exhibits if necessary.
- 2) Please note that IC requires 3 items on the label, (model, applicant, and Certification No. – all as Certified, see ref. RSS-GEN). The label does not appear to include model number information as requested for IC (i.e. "19T") for this application. Please revise labeling as necessary.
- 3) FYI...This application only covers the 315 MHz mentioned by the operational description. Please note that references to 433.92 will not be covered by this application and will require a new FCC application and FCC ID when this is to be approved.
- 4) TX must be accompanied by an appropriate RSS-102 attestation (Appendix A & B of the IC Form). Note that for this type of device, only appendix B portion is necessary to be filled out.
- 5) FYI...Radiated photographs are expected to show sufficient detail to confirm test setup, but also to confirm information such as test distance(s) used during testing (i.e. 3 meter, 10 meter, etc.) In the future, please ensure appropriate photographs are provided.
- 6) FYI...For IC, we like to let you know that designers of low-power devices are strongly recommended to also avoid wherever possible the entire 225-399.9 MHz band since the band 225-399.9 MHz is allocated for Government of Canada usage. This does not affect the application, but simply is providing IC's recommendation as given in RSS-210.
- 7) IC form cites 50 kHz emissions bandwidth. Please explain as different values appear to be given in the report.
- 8) Average measurements appear to be provided. For pulsed emissions, average values should be calculated based upon a worse case duty factor over 100 msec as specified in 15.35 and not measured. The report suggests that average was measured values. Please correct for calculation of worse case duty factor. Additionally, the FCC expects that plots and explanation of how the duty factor was determined to be provided. Also note that worse case encoding (which may affect results due to different types of encoding) should be considered.
- 9) For IC, note that 1260 MHz falls into a restricted band. Please adjust the report for correct limits.
- 10) Please justify emissions designator. Many of these are actually considered L1D.
- 11) Generally information regarding the calibration of equipment should be provided (i.e. last cal, cal due, cal interval, or similar information). Please provide or correct as necessary.


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The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information may result in application termination. Correspondence should be considered part of the permanent submission and may be viewed from the Internet after a Grant of Equipment Authorization is issued.

Please do not respond to this correspondence using the email reply button. In order for your response to be processed expeditiously, you must submit your documents through the [AmericanTCB.com](http://AmericanTCB.com) website. Also, please note that partial responses increase processing time and should not be submitted.

Any questions about the content of this correspondence should be directed to the sender.

FCC Rule	IC Rule	Description of Test	Result	Section
15.247(a)(1)	A8.1 (2)	Hopping Channel Separation	Pass	5.2
15.247(a)(1)(iii)	A8.1 (4)	Number of Hopping Frequency Used	Pass	5.3
15.247(a)(1)	A8.1 (1)	Hopping Channel Bandwidth	Pass	5.4
15.247(a)(1)(iii)	A8.1 (4)	Dwell Time of Each Frequency	Pass	5.5
15.247(b)(1)	A8.4 (2)	Output Power	Pass	5.6
15.247(c)	A8.5	100kHz Bandwidth of Frequency Band Edges	Pass	5.7
15.207	RSS-Gen 7.2.2	Conducted Emission	Pass	5.8
15.209	2.6	Radiated Emission	Pass	5.9
15.203	A8.4 	Antenna Requirement	Pass	5.10