

To: Martin Perrine
From: Dave Fry
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Re: FCC ID EHANOVCDPD RESPONSE TO INFORMATION REQUEST
Applicant: Intermec Technologies Corporation
Correspondence Reference Number: 21421
731 Confirmation Number: EA663283

In regards to your recent application referenced above we kindly request that you provide the following additional information.

A statement clarifying the EUT's maximum power. Numerous maximum powers levels were noted throughout the exhibits including:

.11 W EIRP on Test report section 8.0 page 7 of 7,
.6 W rating page 2 of 30 and on the EAS/Tech Specs,
.822 W on page 7 of 30,
27.7 dBm conducted on page 13 of 30,
66.7 mW ERP on the SAR report cover sheet, and
109.4 mW on the cover sheet for the Assessment of Compliance.

Use of maximum power is required for all tests. Please resubmit new data as appropriate.

Further review will follow pending an answer to the above.

Response:

The radio tested is representative of current units provided from Novatel. All attempts to test a radio that shows a conducted power of .6 watts, see section 8.0 in the report body page 7 of 7. I will attempt to describe where all the power measurements listed above originate and their relevance to this application.

.11 W EIRP in section 8.0 is the power that APREL lab measured for the characteristics of the Intermec 700 terminal antenna. This antenna is provided from Mobile Mark and has a stated gain of -6 dBi. APREL labs provided testing of EIRP of 109.4 mW that I rounded up to .11 W EIRP. When converting 109.4 mW EIRP = 66.7 mW ERP.

.6 W rating on page 2 of 30 is the observed power of the radio initially tested for FCC approval under FCC ID: FCC ID: NBZNRM-6832 issued 4/14/1999. All attempts were made on Intermec's part to obtain a radio that has similar power. We were only able to test a radio that had a power of .45 W conducted for SAR. Intermec submitted three radios to APREL that were provided directly from Novatel. Setting the power at the highest setting for all three radios we were only able to observe .45 W conducted. The power rating requested on the 731 form reflects the .6 W rating from the original grant. If need, please revise the 731 form to reflect .45 W as the conducted power. Since a standard connector is not offered on the Intermec 700 and the only antenna offered for sale by Intermec will be the one referenced in this application the EIRP of .11 W accurately represents the power observed for testing.

.822W on page 7 of 30. This is the power radiated from a 2.15 dBi monopole antenna as tested in the original request for grant referenced above.

27.7 dBm conducted on page 13 of 30. This is the conducted in band occupied bandwidth test. Observation of 27.7 dBm that calculates to .6 W conducted is shown on the original grant for FCC ID: NBZNRM-6832. Intermec and APREL could not duplicate this power rating during any testing for the Intermec 700 terminal.

66.7 mW ERP on the SAR report cover sheet and 109.4 mW EIRP is the same as described above.

It is impossible to repeat the testing at the .6 W conducted power that was originally tested for FCC ID: NBZNRM-6832. The conducted power for the three radios Intermec built for this testing showed a maximum conducted power of .45 W. I give the FCC permission to revise my 731 form to reflect a power rating of .45 Watts. All SAR testing of the radio in this application is tested at the highest power output available by the radio. A poor antenna design used on the Intermec 700 nets the .11 W EIRP and 66.7 mW ERP observed in the documents submitted. Novatel states the radio characteristics regarding occupied bandwidth, frequency stabilization and radiated spurious emissions are still represented by the report from Flom Associates.

The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information within 60 days of the original e-mail date may result in application dismissal pursuant to Section 2.917 (c) and forfeiture of the filing fee pursuant to section 1.1108.

DO NOT reply to this e-mail by using the Reply button. In order for your response to be processed expeditiously, you must upload your response via the Internet at www.fcc.gov, Electronic Filing, OET Equipment Authorization Electronic Filing. If the response is submitted through Add Attachments, in order to expedite processing, a message which informs the processing staff that a new exhibit has been submitted must also be submitted via Submit Correspondence. 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 e-mail address listed below the name of the sender.