To: Lothar Schmidt
From: Martin Perrine
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FCC Equipment Authorization Branch

Re: FCC ID: NM8SN

Applicant: High Tech Computer Corp
Correspondence Reference Number: 4802
731 Confirmation Number: TC921384
Date of Original Email: 07/29/2002

Subject: Request for additional information

For TCB

Please revise grant comment to reflect that device contains European mode that grant does not authorize. TCBs are required to implement Supplement C procedures. The use of probe calibration factors in this report does not appear to follow Supplement C procedures.

In regards to your recent TCB grant referenced above, we kindly request that you provide the following additional information:

1) Before and after SAR test power data. SAR summary table state a variations of + .35 dB. Please provide full details.

The power went don a little bit more than 0.22 to -0.31. The test wasn't repeated since the values of the 2D area scan showed identical values than the course scan. Therefore the influence of this additional powerdrift could be classified as very small.

2) Manufacturer validation support data.
See appendix 4-6 of the SAR report **4-0538-01-01/02**

3) Strong justification for use of the probe calibration at a different frequency and with different tissue parameters than used for testing. Please include an analysis of the expected variation on the SAR value. Alternatively please provide data using a probe calibrated at 1900 MHZ and with the tested tissue parameters. The related explanatory statement under the exhibit titled "SAR Statement" is not understood.

The statement meant the following: At the time of testing the calibration at the 1900 MHz band was not available from SPEAG. The second probe was out for calibration at that time since the FCC didn't accept the interpolation longer. The second probe had similar probe factors. When the probe came back the used probe was sent for calibration. After this probe was back a comparison showed that the interpolation was quite exact in respect of frequency as well as the different tissue.
Please see page 7. this statement is based on this verification.

4) Strong justification for probe conversion factor used for the body validation test. A value of 5.56 was expected however, 5.4 was used. Please clarify.

Please see answer to 3)

5) Additional descriptive information of the SAR measurement system for the head SAR test to meet Supplement C Appendix B part II recommendations. Please includes details of the E field probe, scan procedures, calculations, Robot and computer.
The SAR report 30179772 was revised.

6) Statement justifying device positions are in accordance with Supplement C. Photographs for head tilt positions show an unusual angle. The device is expected to be parallel with the ear reference line. Please clarify.
In this particular case the device was very large to position parallel to the ear reference plane. This has occurred only in tilt position only. The SAR readings for tilt position are much lower than the limit, this would not have effected worst case reading, hence these results may please be accepted. (Even the antenna is closer to the head)

7) New SAR plots. Please include ambient and liquid temperatures.
ambient and liquid temperatures are included.

FYI
The transition period for converting to SAM phantom ends Sep. 15. All applications containing head SAR test results filed after that date must use the SAM phantom. For more info please see FCC Public Notice @ http://hraunfoss.fcc.gov/edocs_public/attachmatch/DA 02 1438A1.pdf

The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information within 30 days of the original e-mail date may result in application dismissal pursuant to Section 2.917(c).

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