

December 11, 2002

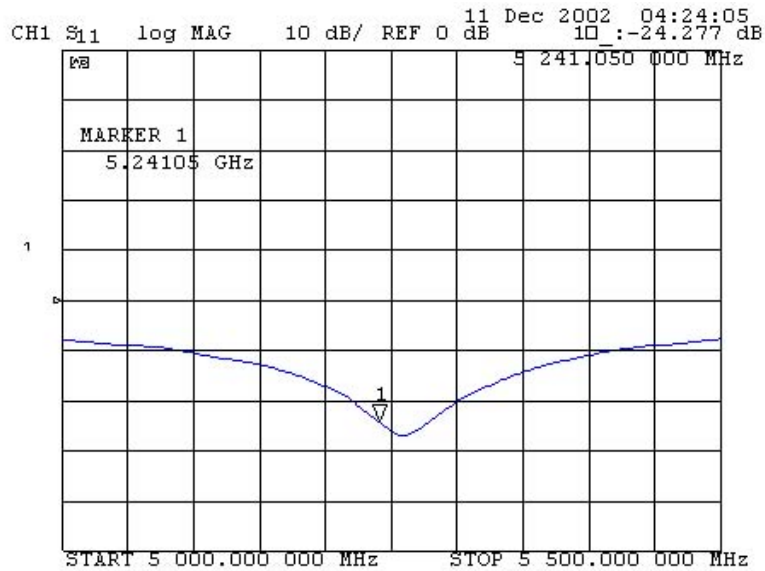
To: Steve Dayhoff
sdayhoff@fcc.gov
FCC Application Processing Branch

Re: FCC ID OSZ37704C
Applicant: Intersil Corporation
Correspondence Reference Number: 24490
731 Confirmation Number: EA153277

1) Further to reply to Crn 24350 8) please submit legible photo of 5ghz band validation dipole.

A1)





< 5.24GHz Validation Dipole >

2) Per 2.1033(b)(3) please submit complete users installation and operating instructions manual.

3) Please submit close-up photo showing side view of notebook computer in normal use position at flat phantom with card installed.

A3)



< Close-up view - Keyboard faced inward the phantom >



< Close-up view – Keyboard faced outward the phantom >

4) Per discussion between Tim Harrington of FCC lab and Victor Kee of Ultratech, SAR reports needs re-formatting. Please submit revised version.

A4) The revised version is attached.

5) What is SAR flat phantom thickness and loss tangent or conductivity (prefer measured)?

A5)

The flat phantom detail

Thickness of the bottom: 2 [mm]

Material of the bottom : Polycarbonate

From the information provided by the material supplier

Loss tangent (dissipation factor) : 0.01 (10^6 cycle)

Measurement using Agilent 85070C Dielectric Probe Kit

Loss tangent (dissipation factor) @ 5.24 GHz : 0.06

Dielectric Constant @ 5.24 GHz : 3.1119

6) Is there a duty factor involved in SAR tests - what is source-based time-averaged output power?

A6) Tested with 100 % duty cycle (CW) instead of with its actual duty cycle, using the controlling software provided by the manufacturer EXCLUSIVELY for SAR test. Thus SAR can be expected to become lower, roughly, by the ratio of the actual duty cycle under normal usage situation.

7) Please confirm or repeat if needed the notebook parallel SAR value less than 0.01 W/kg (also maybe the 5mm reading). The data for host parallel seems a little inconsistent with expected SAR rolloff vs source distance compared to the 5mm SAR.

A7) We were not able to understand quite well what is the point of this question. Please advise us more specific. The SAR values less than 0.01 W/Kg were the cases that the EUT was made to be positioned parallel to the phantom and the separation distances were 13 mm and 15 mm respectively. When we considered the measured field decay versus distance in our report, we couldn't find any inconsistency with respect to the expected SAR roll-off.

Please feel free to contact us if you have any questions

Best Regards
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