



Geophysical Survey Systems, Inc.

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August 15, 2002

To: Andy Leimer
FCC Application Processing Branch

From: Alan Schutz, Geophysical Survey Systems Inc

Re: FCC ID QF75100
Applicant: Geophysical Survey Systems, Inc.
Correspondence Reference Number: 23659
731 Confirmation Number: EA639721

2) *The plot for the -10 dB points indicates that the upper band -10 dB point at 960 MHz to 1 GHz is approximately -5 to -7 dB from the peak. This appears to be non-compliant with Part 15.509 of the Rules. Please explain.*

2) The peak is at 35.45 MHz. The lower -10 dB point is below 30 MHz, probably about 20 MHz. The upper -10 dB point is just over 50 MHz. All data above that point is below the specification curve.

5) *Your response indicated that there is shielding above the antenna. How much shielding is provided and how effective is it in ensuring that the energy from the GPR is directed down into the ground as required in Part 15.503(f). It is recommended that you submit a field measurement from the top of the device showing compliance with the limit. This can be done by suspending an antenna above the device or by turning it on it's side and doing a table top test.*

5) The shielding is a five-sided copper box made from G10. The emissions test had the receiving horn vary from 1 meter to 4 meters above the DUT. This has demonstrated that the shielding is sufficient to keep the air emissions below the spec curve. Photos of the top and bottom of the shield are shown below.



