



HERMON LABORATORIES

September 15, 2005

American TCB
6731 Whittier Ave
Suite C110
McLean, VA 22101
Attn: Mr. T. Johnson, Examining Engineer

RE: your e-mail dated September 8, 2005; Miltel Communications Ltd.
FCC ID:MLLGLXPT2, ATCB002735

Dear Mr. Johnson,
Please find below the answers to your questions.

- 1) The concentrator is connected to a Receiver device that has been certified. The device connected to the concentrator is Miltel's Receiver/Repeater model 2A (FCC ID: MLLGL2RPT450). This device is sold with the concentrator. The user can not connect any other reception device.
- 2) The ERP limit is 120 mW.
Equivalent field strength limit at 3 meter can be found using following equation:

$$E_{limit}[dB\mu V/m] = 20 \times \log_{10} \{\sqrt{30 \times EIRP[W] / r} + 120 = 20 \times \log_{10} \{\sqrt{30 \times ERP[W] \times 1.64/r} + 120\}$$

$$E_{limit[dB\mu V/m]} = 20 \times \log_{10} \left(\frac{\sqrt{30 \times 0.12 \times 1.64}}{3} \right) + 120 = 118.2 [dB\mu V/m]$$

The revised Operational_description_16356_rev1, User_Manual_16356_rev1 and test report MILRAD_FCC.16356_rev1 with corrected pages 6, 7 was uploaded on September 15, 2005.

- 3) The test report page 9, Table 7.1.3 was revised for correct ERP value, refer to MILRAD_FCC.16356_rev1.
Please state EIRP power in the grant if possible according to request of the manufacturer (Miltel) for marketing purposes.
- 4) The test report pages 18, 21, 22 were corrected.
- 5) Please refer to the explanation with illustration in the attachment below.
- 6) The Table 7.4.2 was corrected.
- 7) The device uses FSK modulation with the maximum frequency deviation +/- 3 kHz and the highest modulating frequency +/- 2.4 kHz. Upon this the necessary emission bandwidth is $2 \times (3.0 + 2.4) = 10.8$ kHz, and the correct emission designator is 10K8F1D. The revised ATCB Form 731 and Operational_description_16356_rev1 were uploaded on September 15, 2005.

Thank you.

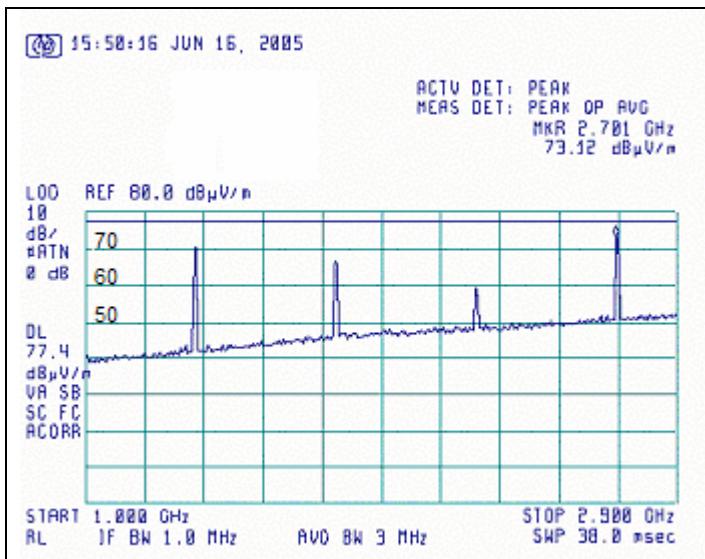
Sincerely,

Marina Cherniavsky,
certification engineer
Hermon Laboratories



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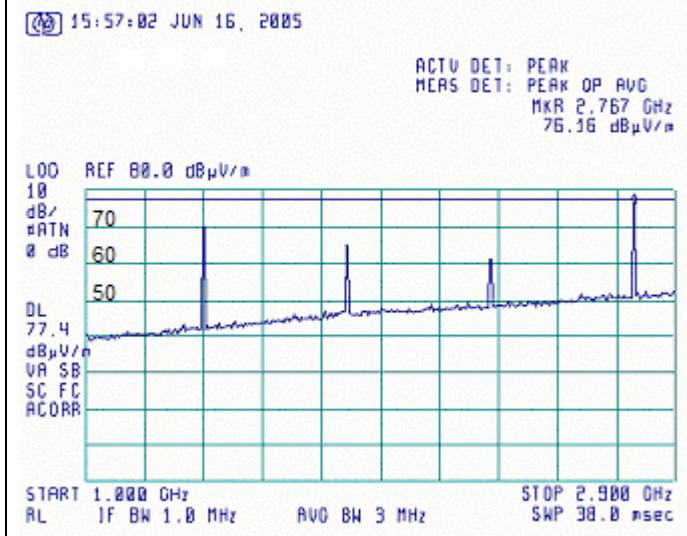
Attachment to item 5



Low frequency

Independent measurements results:

1.35 GHz – 71.98 dB μ V/m
1.80 GHz – 70.94 dB μ V/m
2.25 GHz – 60.24 dB μ V/m
2.70 GHz – 73.42 dB μ V/m



Mid frequency

Independent measurements results:

1.38 GHz – 71.45 dB μ V/m
1.84 GHz – 65.59 dB μ V/m
2.30 GHz – 61.20 dB μ V/m
2.76 GHz – 76.38 dB μ V/m



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