



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:

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

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

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.

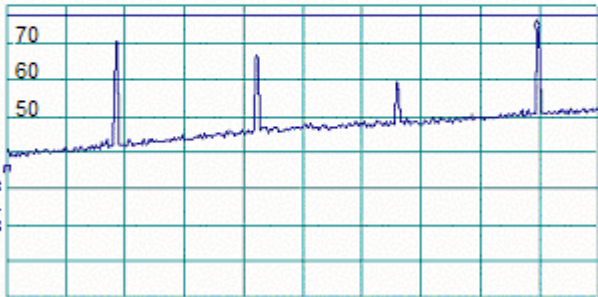
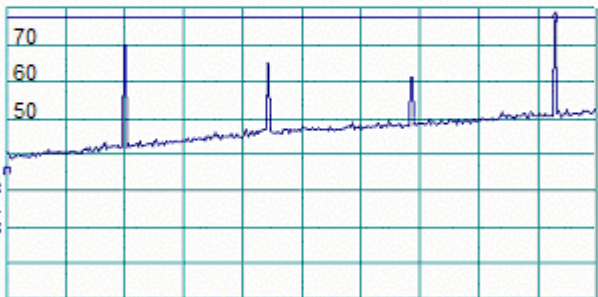
Thank you.

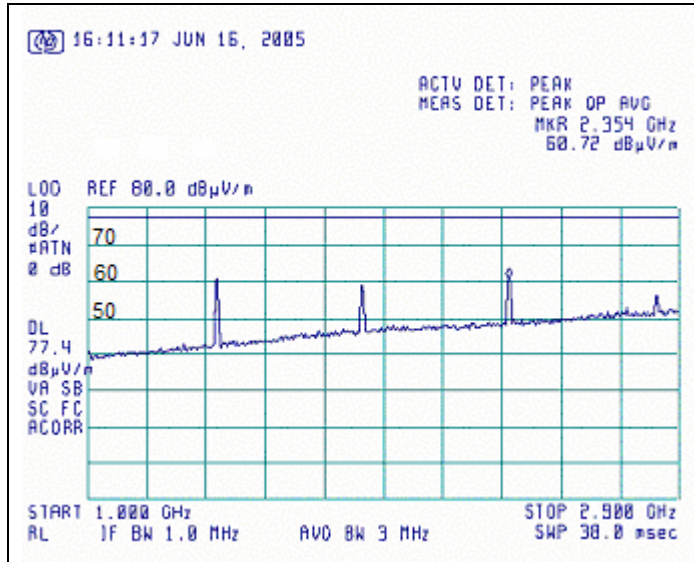
Sincerely,

Marina Cherniavsky,  
certification engineer  
Hermon Laboratories



Attachment to item 5

<p>15:50:16 JUN 16, 2005</p> <p>ACTV DET: PEAK MEAS DET: PEAK OP AVG MKR 2.701 GHz 73.12 dB<math>\mu</math>V/m</p> <p>LOO REF 80.0 dB<math>\mu</math>V/m 10 dB/ #ATN 0 dB</p> <p>DL 77.4 dB<math>\mu</math>V/m VA SB SC FC ACORR</p>  <p>START 1.000 GHz STOP 2.900 GHz RL IF BW 1.0 MHz AVO BW 3 MHz SWP 30.0 msec</p>	<p>Low frequency</p> <p>Independent measurements results:</p> <p>1.35 GHz – 71.98 dBuV/m 1.80 GHz – 70.94 dBuV/m 2.25 GHz – 60.24 dBuV/m 2.70 GHz – 73.42 dBuV/m</p>
<p>15:57:02 JUN 16, 2005</p> <p>ACTV DET: PEAK MEAS DET: PEAK OP AVG MKR 2.767 GHz 76.16 dB<math>\mu</math>V/m</p> <p>LOO REF 80.0 dB<math>\mu</math>V/m 10 dB/ #ATN 0 dB</p> <p>DL 77.4 dB<math>\mu</math>V/m VA SB SC FC ACORR</p>  <p>START 1.000 GHz STOP 2.900 GHz RL IF BW 1.0 MHz AVO BW 3 MHz SWP 30.0 msec</p>	<p>Mid frequency</p> <p>Independent measurements results:</p> <p>1.38 GHz – 71.45 dBuV/m 1.84 GHz – 65.59 dBuV/m 2.30 GHz – 61.20 dBuV/m 2.76 GHz – 76.38 dBuV/m</p>



## High frequency

Independent measurements results:

1.41 GHz – 61.79 dBuV/m

1.88 GHz – 58.26 dBuV/m

2.35 GHz – 61.00 dBuV/m

2.82 GHz – 56.35 dBuV/m