

Re: Ways to open up Mala UWB-equipment

We were asked to let our lab describe how our UWB-units are mechanically designed and how they could be opened, in order to view the breadboards inside.

**Our test lab refuses to do such work!**

Their arguments:

- 1) The units cannot be opened up without causing damage.
- 2) As a test lab they verify whether certain equipment, with a model and serial number, complies with a specified regulation. They do not have the means nor the will to start opening up and examining equipment. In their view this is something that the manufacturer has to be responsible for.

Our contact person at the lab is Petter Gärdin, as specified in our 731 form.

Since this document might also be part of what FCC publish, I'm giving a short version of the mechanical design below:

- The units 250, 500 and 800MHz and EasyLocator MID all have their covers fastened by means of rivets and/or one-way screws.
- The antenna flares are attached to the surrounding rf-absorbers and shields by means of glued material. This material will be damaged during disassembly.
- Metal shielding is surrounding each antenna flare on all sides except the bottom side, which in normal operation faces ground.
- In order to view all breadboards all shields and absorbers has to be removed and breadboards de-soldered.
- Disassembly of the units, by a customer or competitor, is likely to cause permanent damage of the unit.
- Malå does not inform customers of how to open up the units nor do we repair units that have been tampered with, in theses cases new units will be shipped and charged for.

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