

11 ANTENNA REQUIREMENT

11.1 Standard Applicable:

According to §15.203, Antenna requirement.

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

11.2 Antenna Connected Construction:

The directional gains of antenna used for transmitting is below table, and the antenna connector is designed with unique type RF connector and no consideration of replacement. Please see EUT photo and antenna spec. for details.

Antenna Designation:

Type	Manufacturer	Gain (2.4GHz)
Dipole Ant	Nien-Yi industrial Corp.	4.5 +/- 0.5 dBi
PCB Ant	Nien-Yi industrial Corp.	2.0 +/- 0.5 dB
Print Ant	iSenseTek Techonology Inc.	0 +/- 0.5 dBi
PIFA Ant	Nien-Yi industrial Corp.	2.0 +/- 0.5 dBi

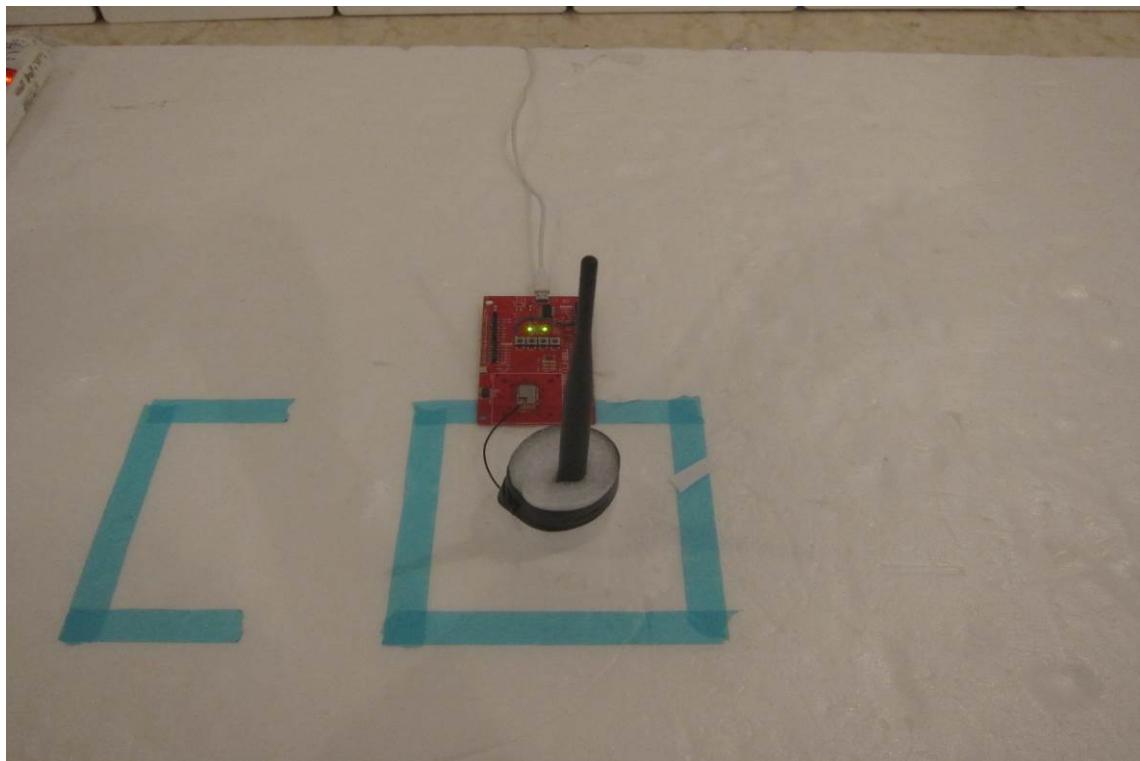
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PHOTOGRAPHS OF SET UP

Radiated Emission Setup Photos (below 1G) (Dipole Ant)



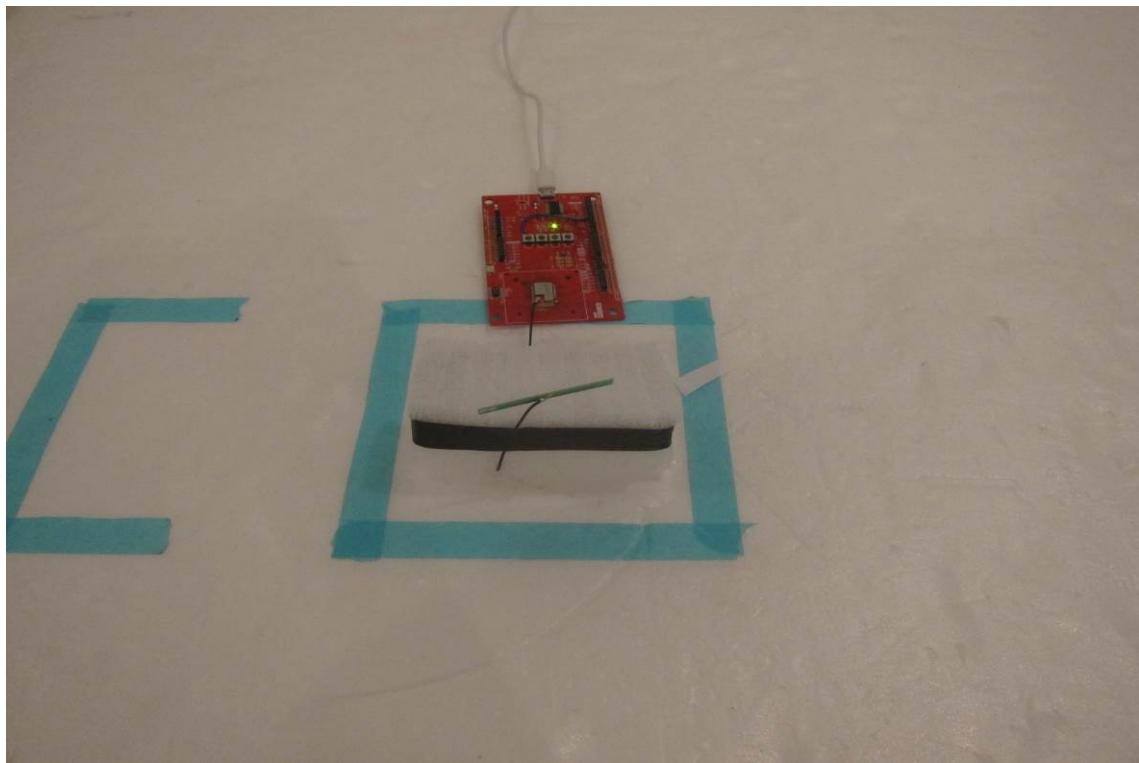
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Radiated Emission Setup Photos (below 1G) (PCB Ant)



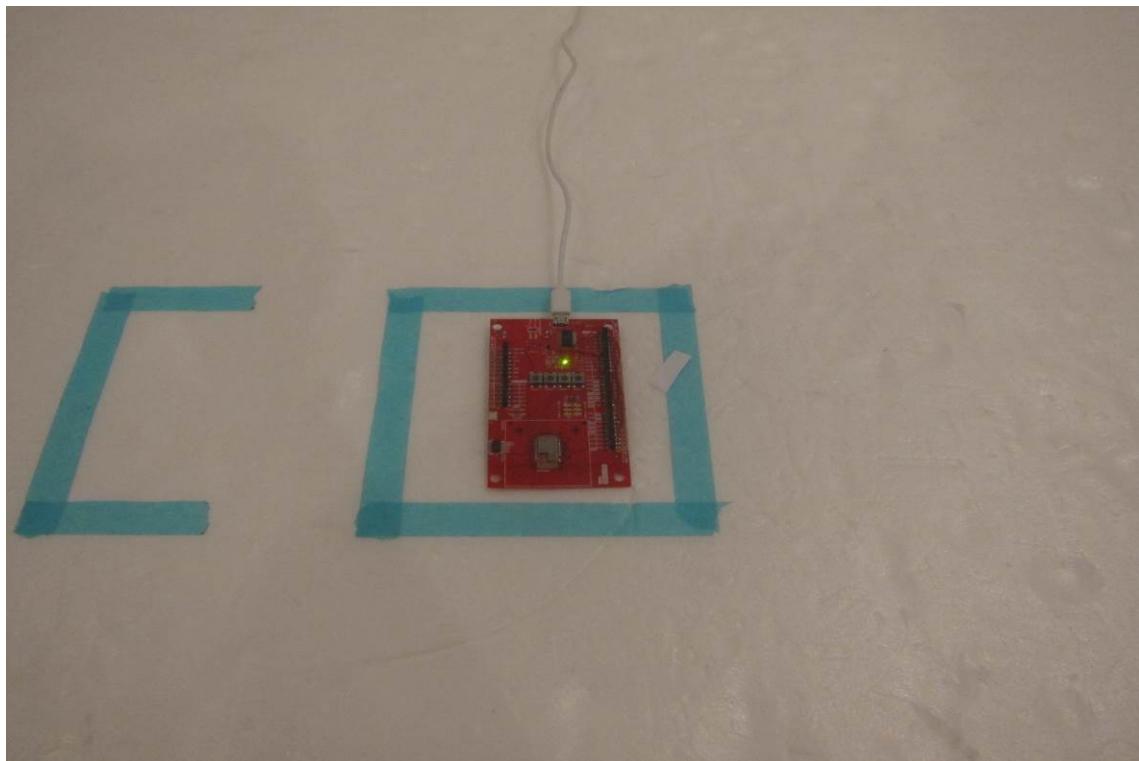
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Radiated Emission Setup Photos (below 1G) (Print Ant)

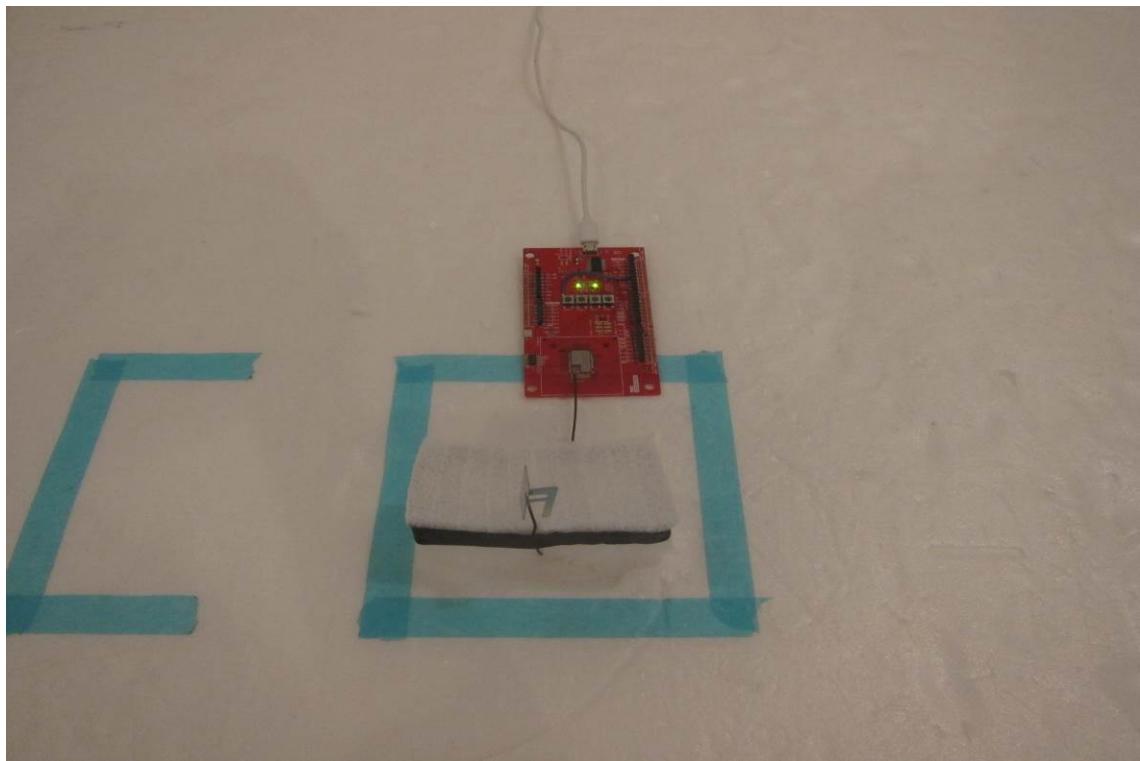


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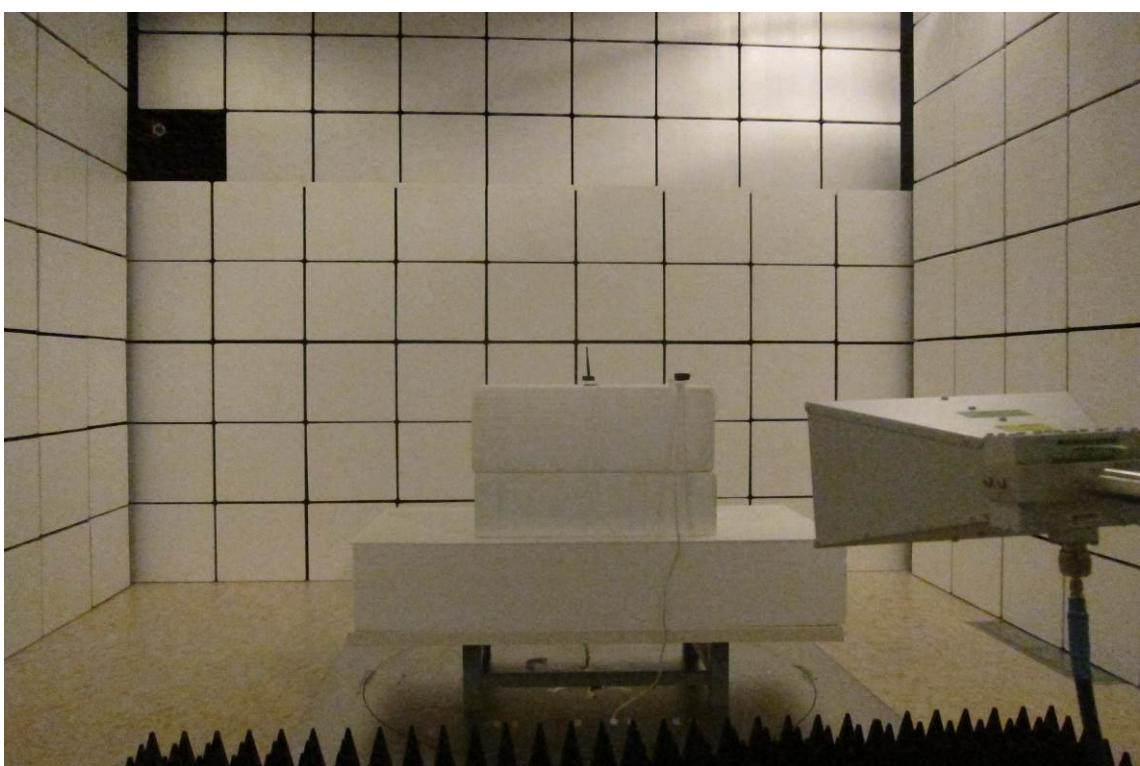


Radiated Emission Setup Photos (below 1G) (PIFA Ant)





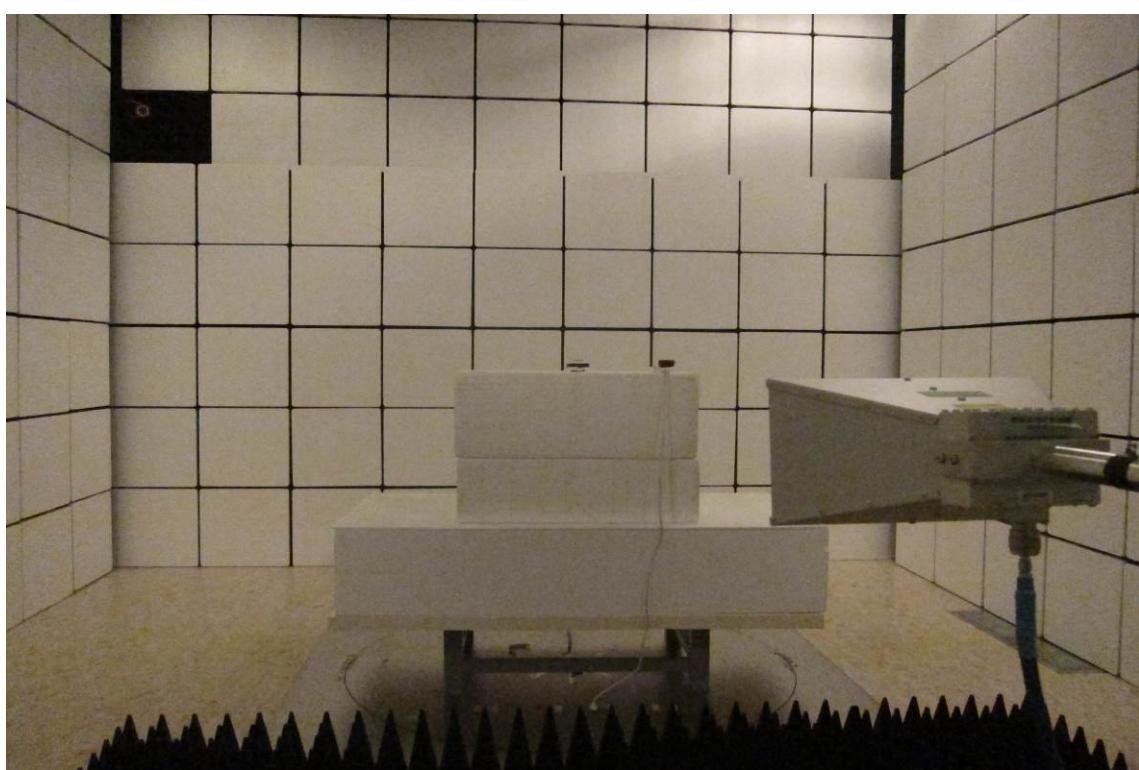
Radiated Emission Setup Photos (above 1G) (Dipole Ant)



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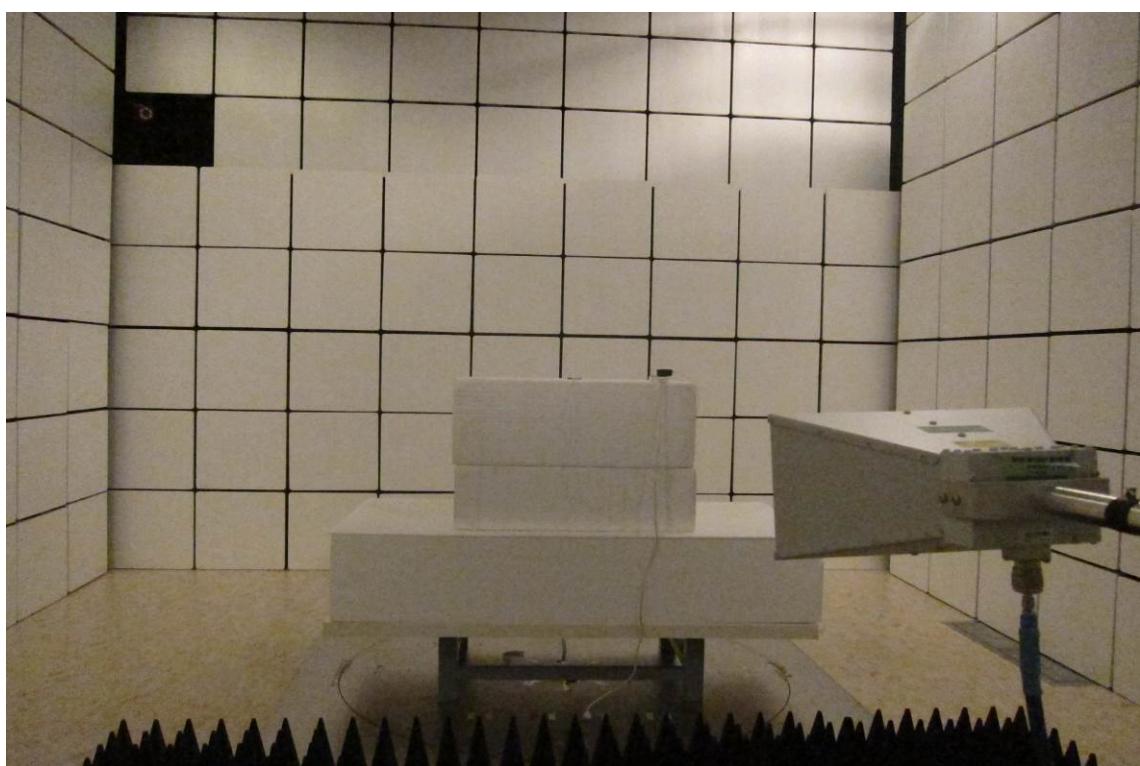
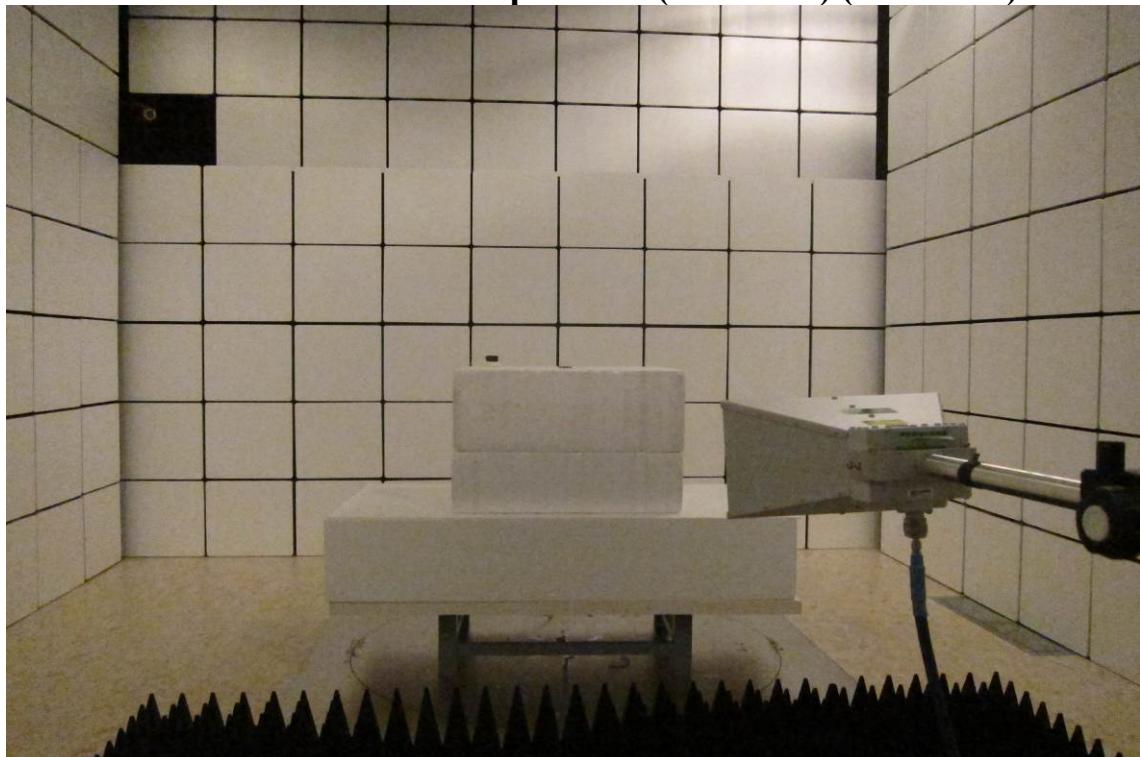
Radiated Emission Setup Photos (above 1G) (PCB Ant)



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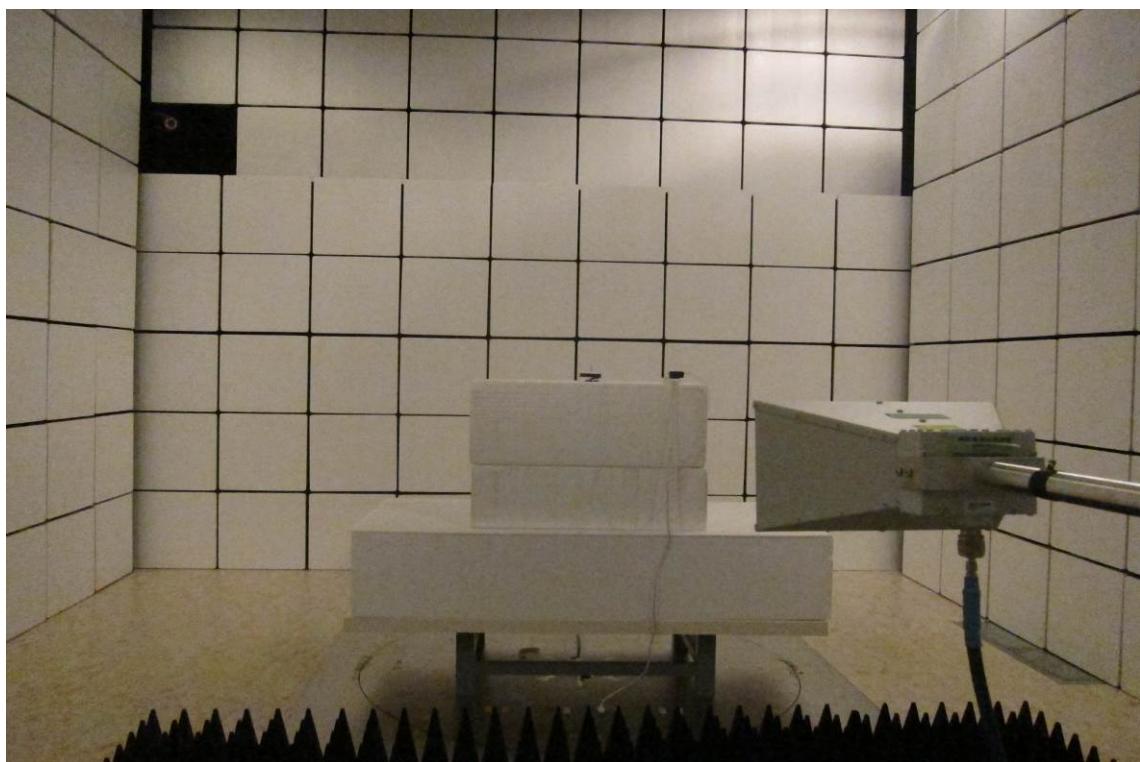
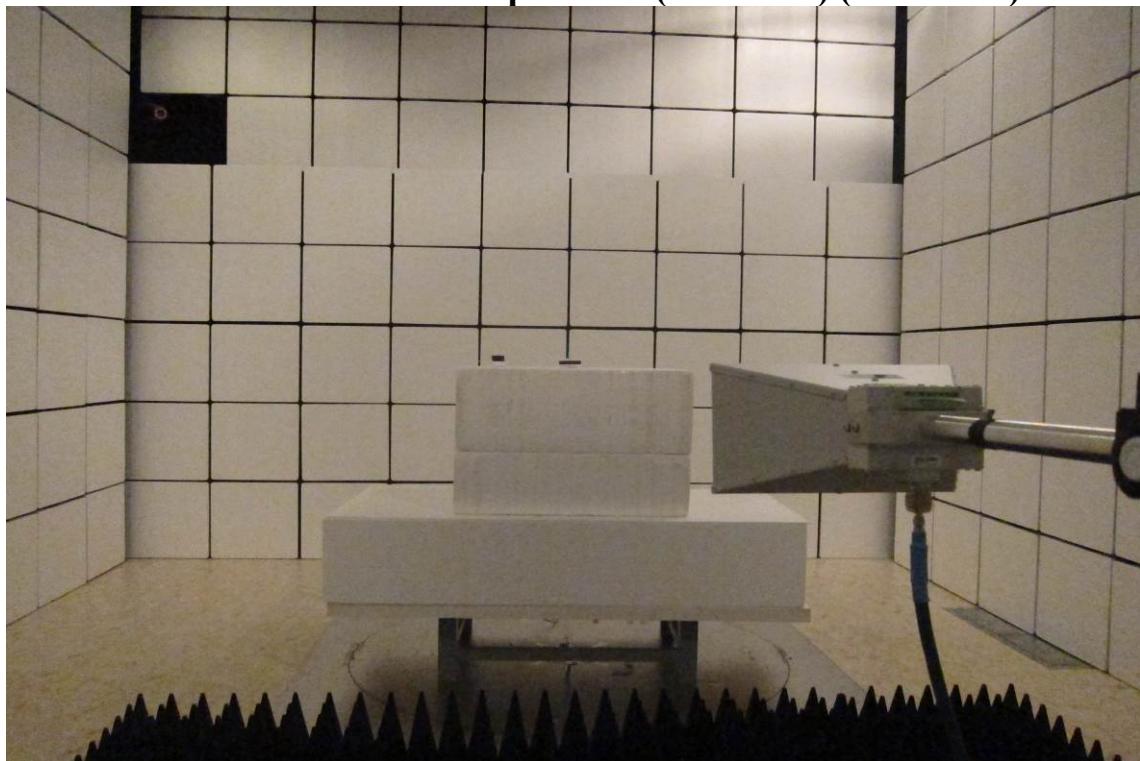
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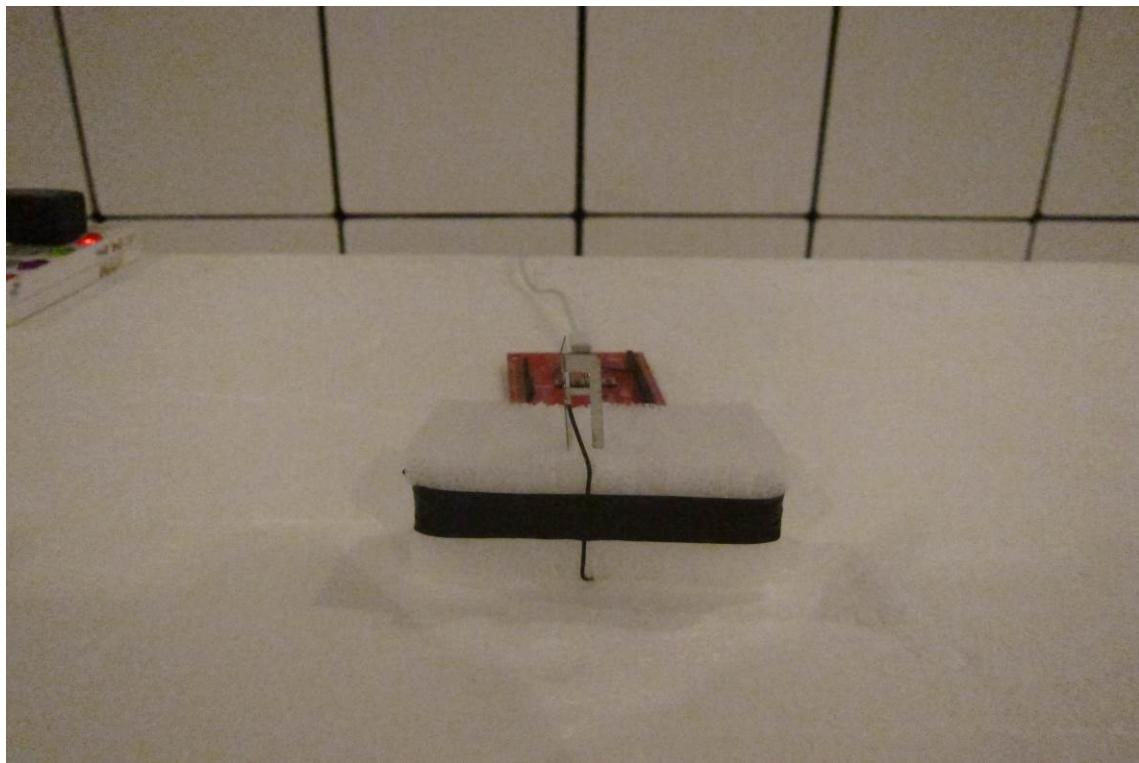
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Radiated Emission Setup Photos (above 1G) (PIFA Ant)



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Conducted Emission Setup Photos



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