

APPENDIX 3: Photographs of test setup

Conducted Emission

Ant: URAN-S1

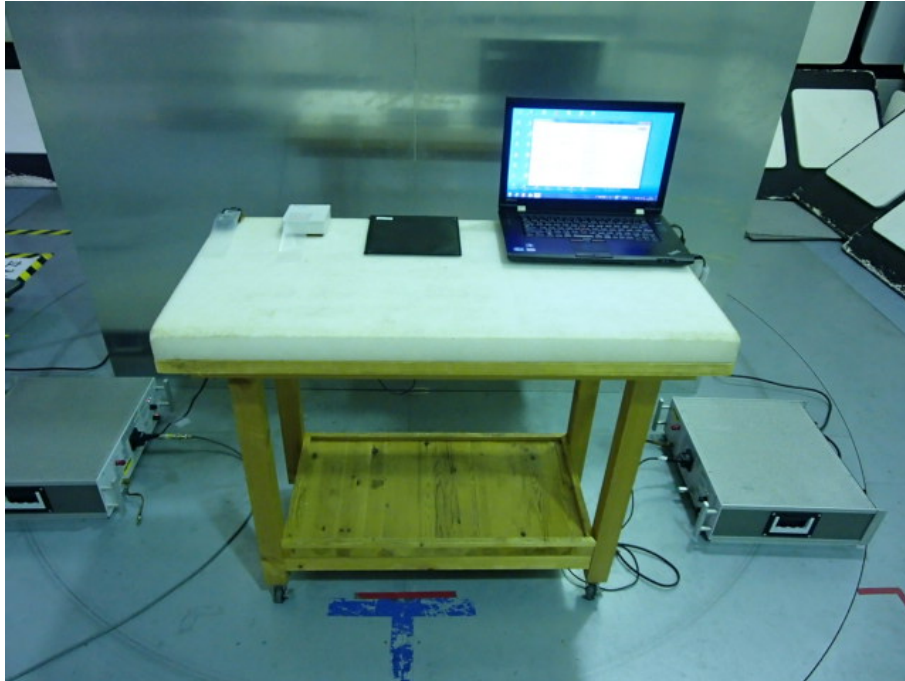


Photo 1



Photo 2

UL Japan, Inc.

Ise EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

Conducted Emission
ANT: URAN-R2



Photo 1

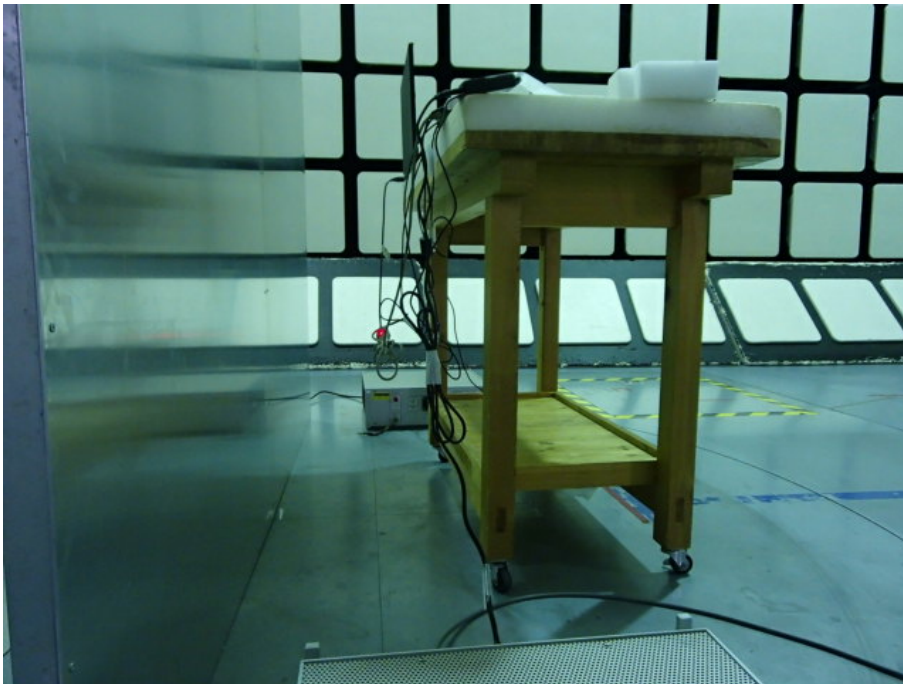


Photo 2

UL Japan, Inc.

Ise EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

Radiated Spurious Emission
(Below 1 GHz)
Ant: URAN-S1

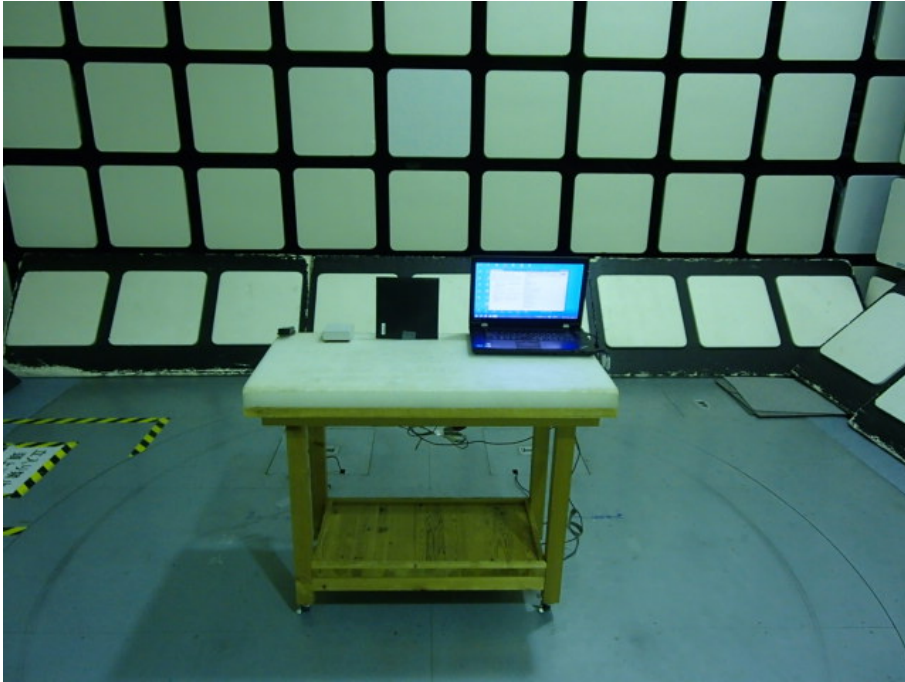


Photo 1

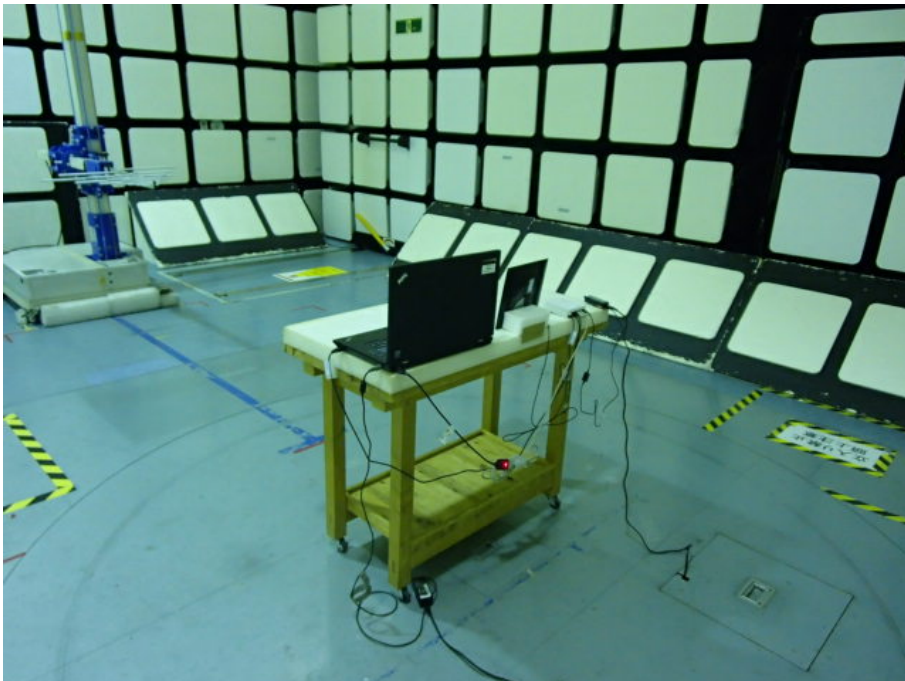


Photo 2

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Radiated Spurious Emission
(Above 1 GHz)
Ant: URAN-S1

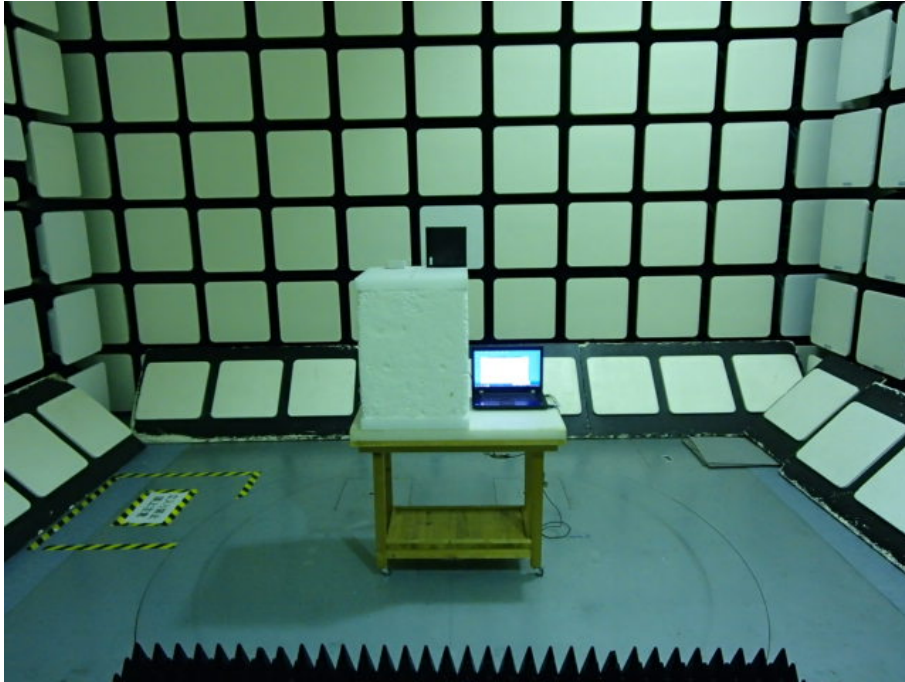


Photo 1

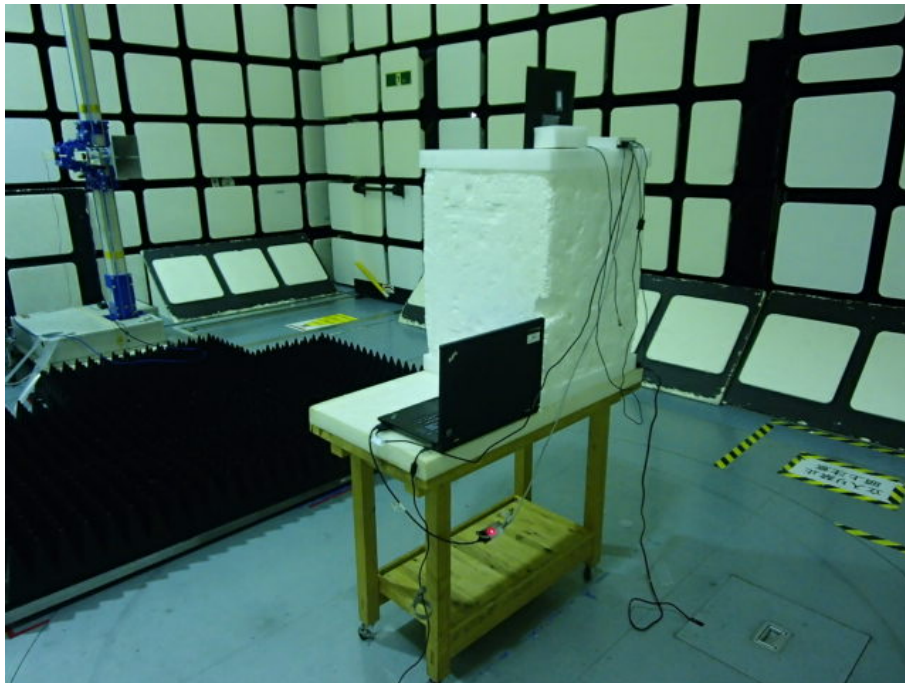


Photo 2

Radiated Spurious Emission
(Below 1 GHz)
Ant: URAN-R2



Photo 1

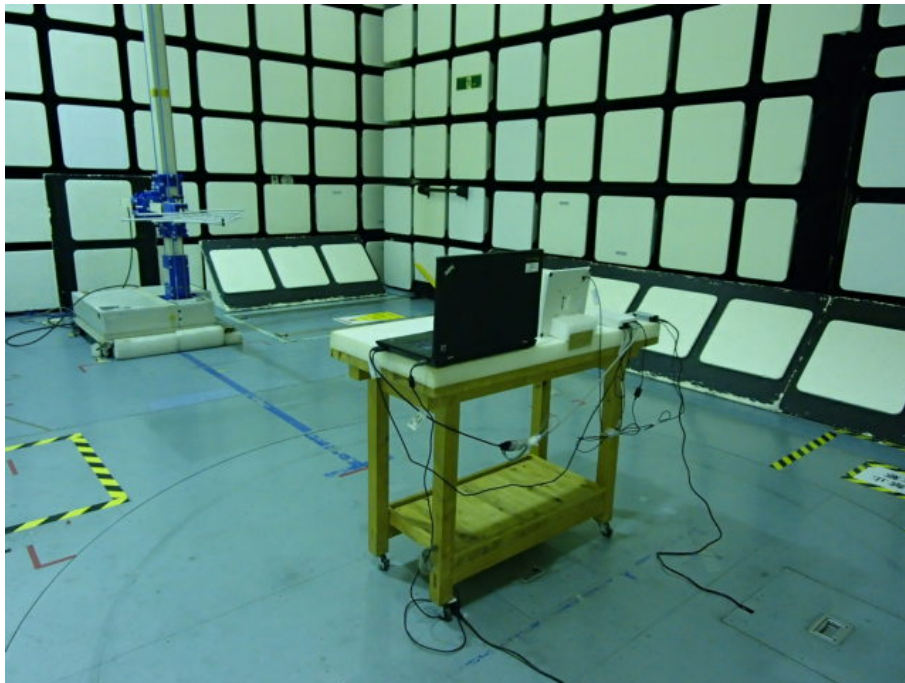


Photo 2

Radiated Spurious Emission
(Above 1 GHz)
Ant: URAN-R2

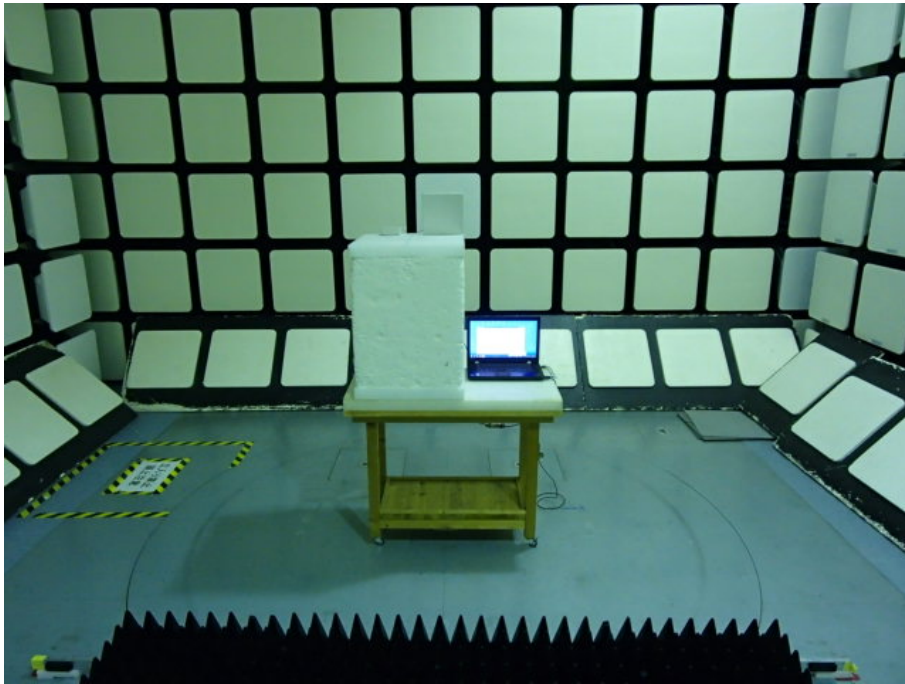


Photo 1

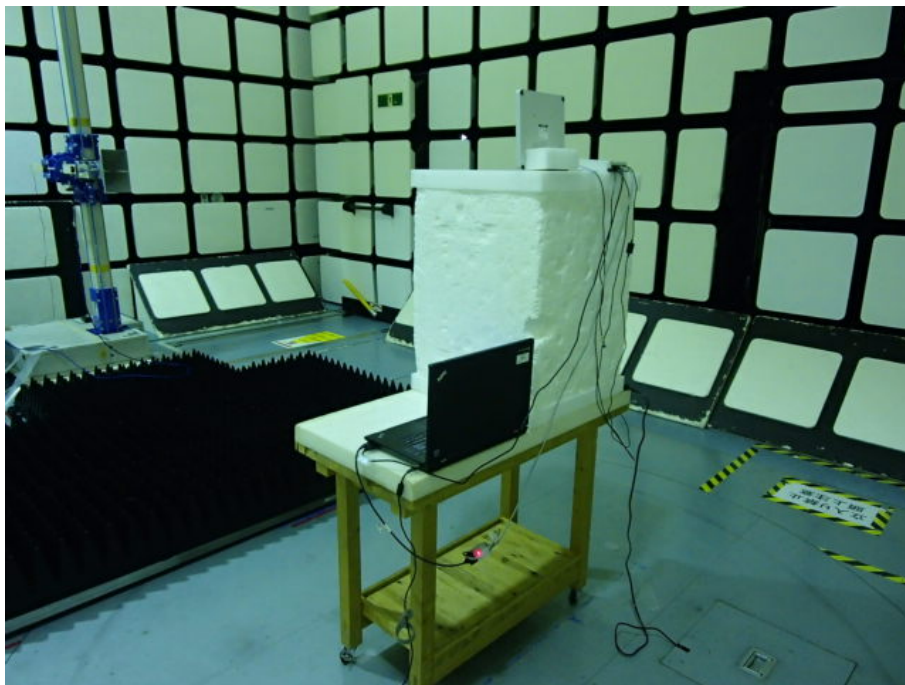


Photo 2

UL Japan, Inc.

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Worst Case Position

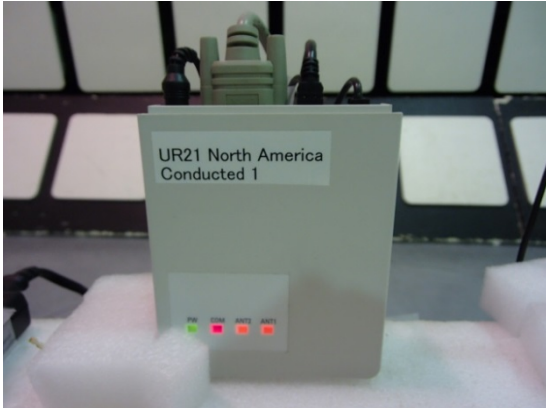
Controller (Horizontal: X-axis/ Vertical: X-axis)

Antenna (Ant: URAN-S1) (Horizontal: Z-axis/ Vertical: Z-axis)

**Controller
X-axis**



Y-axis



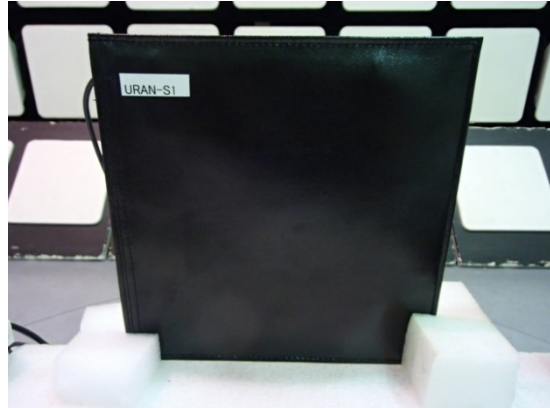
Z-axis



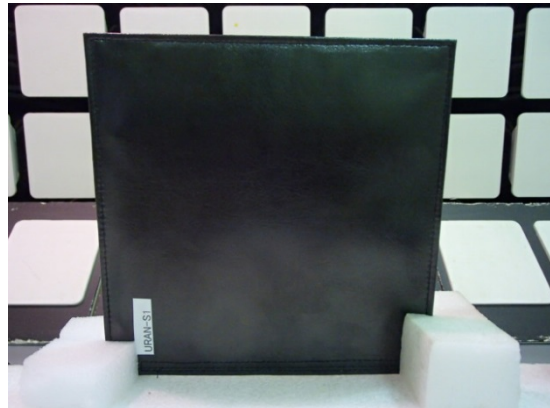
**Antenna (Ant: URAN-S1)
X-axis**



Y-axis



Z-axis



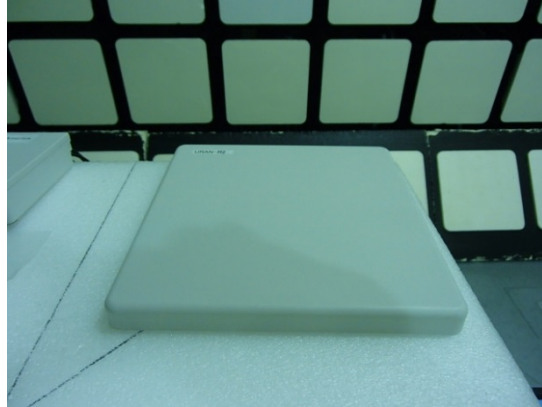
Worst Case Position

Controller (Horizontal: X-axis/ Vertical: X-axis)

Antenna (Ant: URAN-R2) (Horizontal: Y-axis/ Vertical: Y-axis)

Antenna (Ant: URAN-R2)

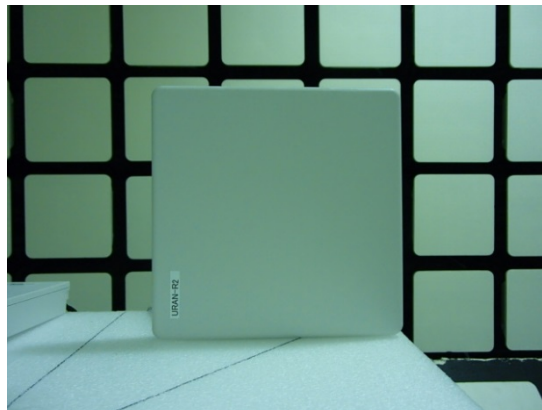
X-axis



Y-axis

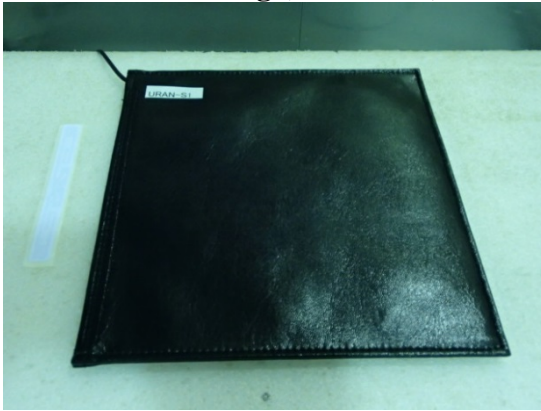


Z-axis



Worst Case Position

**Antenna (Ant: URAN-S1)
Without tag (worst case)**



With tag



**Antenna (Ant: URAN-R2)
Without tag (worst case)**



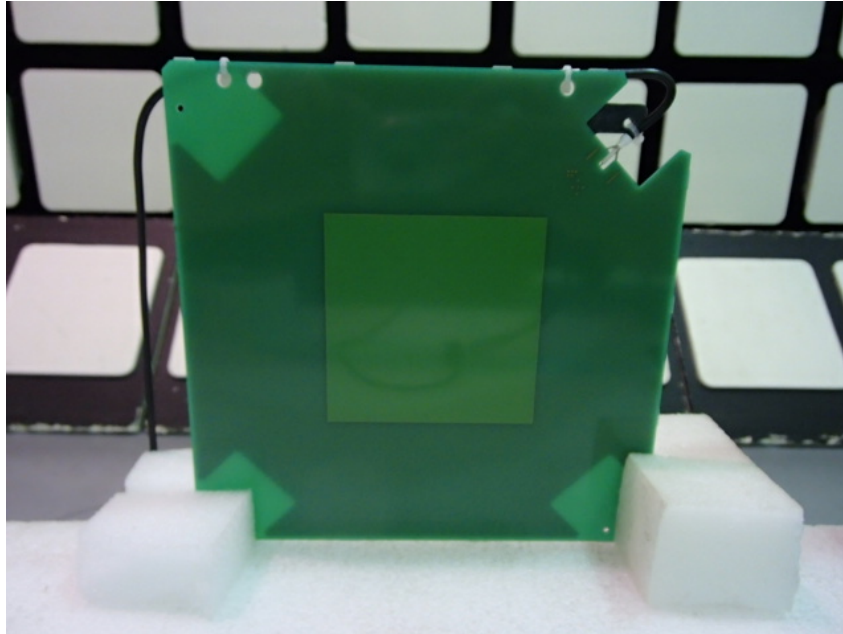
With tag



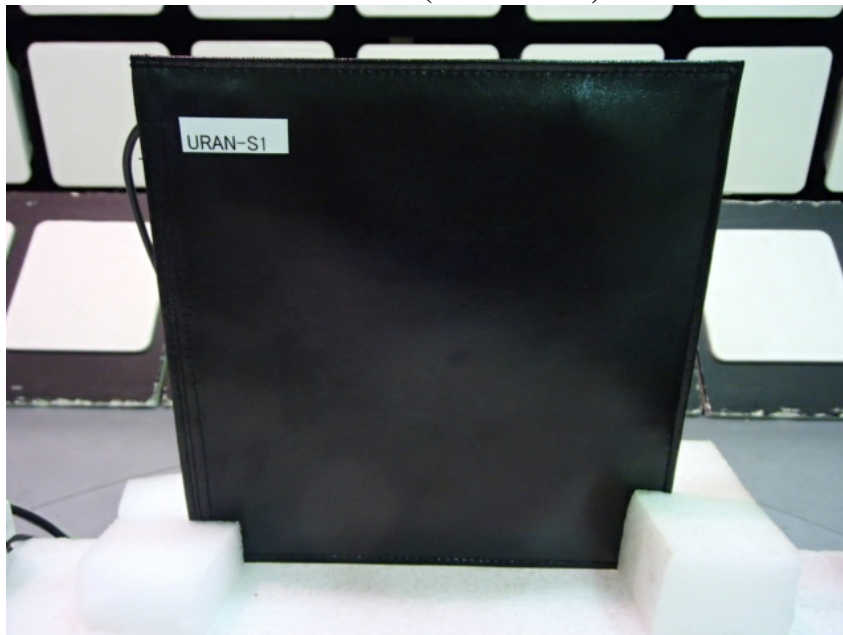
*Notwithstanding, for checking the worst case, distance between antenna and tag is changed as a representative 0mm(touch), 100mm and 200mm. without tag is worst case.

Worst Case Position
Ant: URAN-S1

Without Cover



With Cover (Worst Case)



End of Report