

RF Exposure Statement: JP223Y4L 002

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Client: **NEC Corporation**
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 Japan

Test item: **5G NR FR1 Base Station Sub6 Massive MIMO RU**

Identification: **MB5440-m4770-52**

FCC Requirement

According to FCC 1.1307(b), fixed RF source must comply with the following applicable limit for maximum permissible exposure (MPE) specified in FCC 1.1310:

Equipment Use	Frequency Range	Power Density [mW/cm ²]	Average Time [min]
General Population / Uncontrolled Exposure	1.5 – 100GHz	1	30
Occupational / Controlled Exposure	1.5 – 100GHz	5	30

Assessment Result

The distance where the MPE limit for General Population / Uncontrolled Exposure is met is given in the following table:

Maximum EIRP [dBm]	Maximum EIRP [mW]	Distance [cm] Power Density = 1mW/cm ²	Proposed Minimum RF Safety Distance [cm]
74.96	31343679.53	1579.32	1580

Note:

The distance [cm] is calculated according to the Friis formula: $D = \sqrt{EIRP / (4\pi \cdot S)}$, where

S = power density in mW/cm²

EIRP = Effective Isotropically Radiated Power in mW

The distance where the MPE limit for Occupational / Controlled Exposure is met is given in the following table:

Maximum EIRP [dBm]	Maximum EIRP [mW]	Distance [cm] Power Density = 5mW/cm ²	Proposed Minimum RF Safety Distance [cm]
74.96	31343679.53	706.29	707

Note:

The distance [cm] is calculated according to the Friis formula: $D = \sqrt{EIRP / (4\pi \cdot S)}$, where

S = power density in mW/cm²

EIRP = Effective Isotropically Radiated Power in mW

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Conclusion

The device complies with the FCC RF exposure requirements with minimum RF safety distance of 1580cm for General Population / Uncontrolled Exposure and 707cm for Occupational / Controlled Exposure.

Refer to test report JP223Y4L 001 for more details.