

**FCC ID: NDXISOMAXIV** 

# 5.2 Field strength of the fundamental wave

For test instruments and accessories used see section 6 Part CPR 1.

### 5.2.1 Description of the test location

Test location: OATS1

#### 5.2.2 Photo documentation of the test set-up



## 5.2.3 Description of Measurement

The magnetic field strength from the EuT is measured in the frequency range of 9 kHz to 30 MHz using a tuned receiver and a shielded loop antenna. The antenna was positioned 3, 10 or 30 meters horizontally from the EuT. Measurements have been made in all three orthogonal axes and the shielded loop antenna was rotated to locate the maximum of the emissions.

The final level, expressed in  $dB_{\mu}V/m$ , is arrived at by taking the reading from the EMI receiver (Level  $dB_{\mu}V$ ) and adding the antenna correction factor and cable loss factor (Factor dB) to it. This result then has to be compared with the relevant FCC limit.

The resolution bandwidth during the measurement is as follows:

9 kHz - 150 kHz: ResBW: 200 Hz 150 kHz - 30 MHz: ResBW: 9 kHz

Example:

Frequency Level Factor Level Limit Delta (dB) (dBuV/m) (MHz) (dBµV) (dBµV/m) (dB) 1.705 20 25 30

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# 5.3 Spurious emissions (Magnectic field) 9 kHz - 30 MHz

For test instruments and accessories used see section 6 Part SER 1.

## 5.3.1 Description of the test location

Test location: OATS1

## 5.3.2 Photo documentation of the test set-up



#### 5.3.3 Description of Measurement

Spurious emissions from the EuT are measured in the frequency range of 9 kHz to 30 MHz using a tuned receiver and a shielded loop antenna. The antenna was positioned 3, 10 or 30 meters horizontally from the EuT. Measurements have been made in all three orthogonal axes and the shielded loop antenna was rotated to locate the maximum of the emissions.

The final level, expressed in  $dB_{\mu}V/m$ , is arrived at by taking the reading from the EMI receiver (Level  $dB_{\mu}V$ ) and adding the antenna correction factor and cable loss factor (Factor dB) to it. This result then has to be compared with the relevant FCC limit.

The resolution bandwidth during the measurement is as follows:

9 kHz – 150 kHz: ResBW: 200 Hz 150 kHz – 30 MHz: ResBW: 9 kHz

Example:

Frequency	Level	+	Factor	=	Level	Limit	=	Delta
(MHz)	(dBµV)		(dB)		(dBµV/m)	(dBµV/m)		(dB)
1.705	5	+	20	=	25	30	=	5