

The distance of measurements was reduced to 10 meters.

Date : December 17, 2001
 Temp.: 22 °C Humi.: 22 %

Operating Frequency : 134.2 kHz
Distance of Measurement : 10 meters

Frequency (MHz)	Meter Reading (dBμV/m)	Field Strength (dBμV/m)
Fundamental		
0.134	39.3	39.3(Average)
0.134	46.2	46.2(Peak)
Harmonic Frequency		
0.268	< 33.2	< 33.2(Average)
0.268	< 39.4	< 39.4(Peak)
0.402	< 31.4	< 31.4(Average)
0.402	< 36.6	< 36.6(Peak)
0.536	< 30.1	< 30.1
0.670	< 29.0	< 29.0
0.804	< 28.1	< 28.1
0.938	< 27.3	< 27.3
1.072	< 27.0	< 27.0
1.206	< 27.0	< 27.0
1.340	< 27.0	< 27.0

- Note: 1. Meter reading value shows field strength, because the value includes antenna factor.
 2. The symbol of "<" means "or less".
 3. Measuring Instrument Setting:
 Frequency Range : 110 kHz to 490 kHz
 Detector Function : Average/Peak, IF Band width : 10 kHz

 Frequency Range : 536.8 kHz to 1345 kHz
 Detector Function : CISPR Quasi-peak Peak, IF Band width : 9 kHz

For fundamental, the measured field strength was extrapolated to distance 300 meters, using the formula that field strength varies as the inverse distance square (40 dB per decade of distance).

Calculation :

Average: $39.3 \text{ dB}\mu\text{V/m} - 20\log_{10}((300/10)^2) = 39.3 - 59.1 = -19.8 \text{ dB}\mu\text{V/m}$ at 300 meters
 Limits for fundamental (§15.209(a)) = $20\log_{10}(2400/134.0) = 25.1 \text{ dB}\mu\text{V/m}$
 Peak: $46.2 \text{ dB}\mu\text{V/m} - 20\log_{10}((300/10)^2) = 46.2 - 59.1 = -12.9 \text{ dB}\mu\text{V/m}$ at 300 meters
 Limits for fundamental (§15.209(a)) = $20\log_{10}(2400/134.0)+20 = 45.1 \text{ dB}\mu\text{V/m}$

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