

FCC ID LA5WERB001

RADIATED EMISSION MEASUREMENT DATA 15.209 GENERAL EMISSION LIMITS

[illegible]

Tested: Russell Grant

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R&S Active Loop Antenna

R&S ESH3 Test Receiver 10 kHz RBW Peak Detector Function

* 15.209 General Emission Limits

Note: Fundamental emission at 508 kHz was measured at 3 distances and extrapolated as per attached graph.

Note: Harmonic emissions were measured at two measurement distances and the field strength measured at

1m was extrapolated to 30 m using extrapolation factor as determined from measurements at 0.5, or 1 m

Sample Calculation: 0.5 to 1 m is $\log 2 = 0.301$ decades and the emission varies from 46.5 to 34.2 dBuV/m

This is a reduction of $(46.5-34.2)/0.301 = 40.9$ dB/decade.

1 m to 30 m is $\log 30 = 1.477$ decade so the overall reduction in field strength from 1 to 30 m is $= 1.477 \times 40.9 = 60.4$ dB