

RF Exposure Evaluation

FCCID: HCOT30QSCPAN1B

**700, 850, 1900, AWS Indoor Remote Unit, Quad-Band
Dali Wireless Inc.**

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Labs: 8618 Commerce Court, Burnaby, BC, V5A 4N6, Canada



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RF Exposure Evaluation

Test Standard

FCC CFR47, Part 1, 1307 (b), 1310

FCC CFR47, Part 2, Subpart J 1091

FCC 1.1310 states the criteria listed in the table below shall be used to evaluate the environmental impact of human exposure to radiofrequency (RF) radiation as specified in Section 1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of Section 2.1093 of this chapter. Further information on evaluating compliance with these limits can be found in the FCC's OST/OET Bulletin Number 65, "Evaluating Compliance with FCC-Specified Guidelines for Human Exposure to Radiofrequency Radiation".

Frequency Range (MHZ)	Electric Field Strength (V/m)	Magnetic Field Strength (A/M)	Power Density (mW/cm²)	Average Time, min
<i>(A) Limits for Occupational/Control Exposures</i>				
300-1500	--	--	F/300	6
1500-100,000	--	--	5	6
<i>(B) Limits for General Population/Uncontrolled Exposures</i>				
300-1500	--	--	F/1500	6
1500-100,000	--	--	1	30

EUT Operating Condition

The maximum antenna gain is 21 dBi at 2.155 GHz.

RF exposure evaluation distance calculation

2.155 GHz radio with 21 dBi antenna

Freq (MHz)	Output Power to Antenna (dBm)	Antenna Gain (dBi)	r (cm)
2112	30.733	21	173.2
2132	31.417	21	189.0
2155	30.359	21	167.6

As shown above, the minimum distance where the MPE limit is reached is 189.0 cm.