

Maximum e.i.r.p. at any elevation angle above 30 degreesDevice installation report for FCC U-NII-1 band (5.15- 5.25GHz) compliance

The Federal Communications Commission (FCC) established new rules for the 5.15 – 5.25 GHz U-NII-1 band in the Report and Order FCC-14-30A1 are effective from 2nd June, 2014. With the help of professional installation, all the ZDC devices can be configured to comply with the power requirements set in the rules. For an angle of elevation which is above 30 degrees, the maximum EIRP limit should be set to 125mW (21 dBm). The compliance can be achieved through proper selection of antenna, angle of installation, and Tx power control to provide reasonable protection from harmful interference to the users, authorized devices, and co-channel NGSO/MSS operations.

- ZDC devices such as BSUs (Base Station Units)/ SUs (Subscriber Units) are installed by professional installers to work in fixed outdoor configurations.
- These devices are in general mounted on a tower, roof, or at a place above the street level; therefore, it implies that all ZDC devices whether they have an external antenna or an integrated antenna support vertical alignment to achieve downward tilt.
- All devices support TPC (Transmit Power Control) configuration with a range of (0 – 21dB*) that allows professional installers to lower the power when necessary.

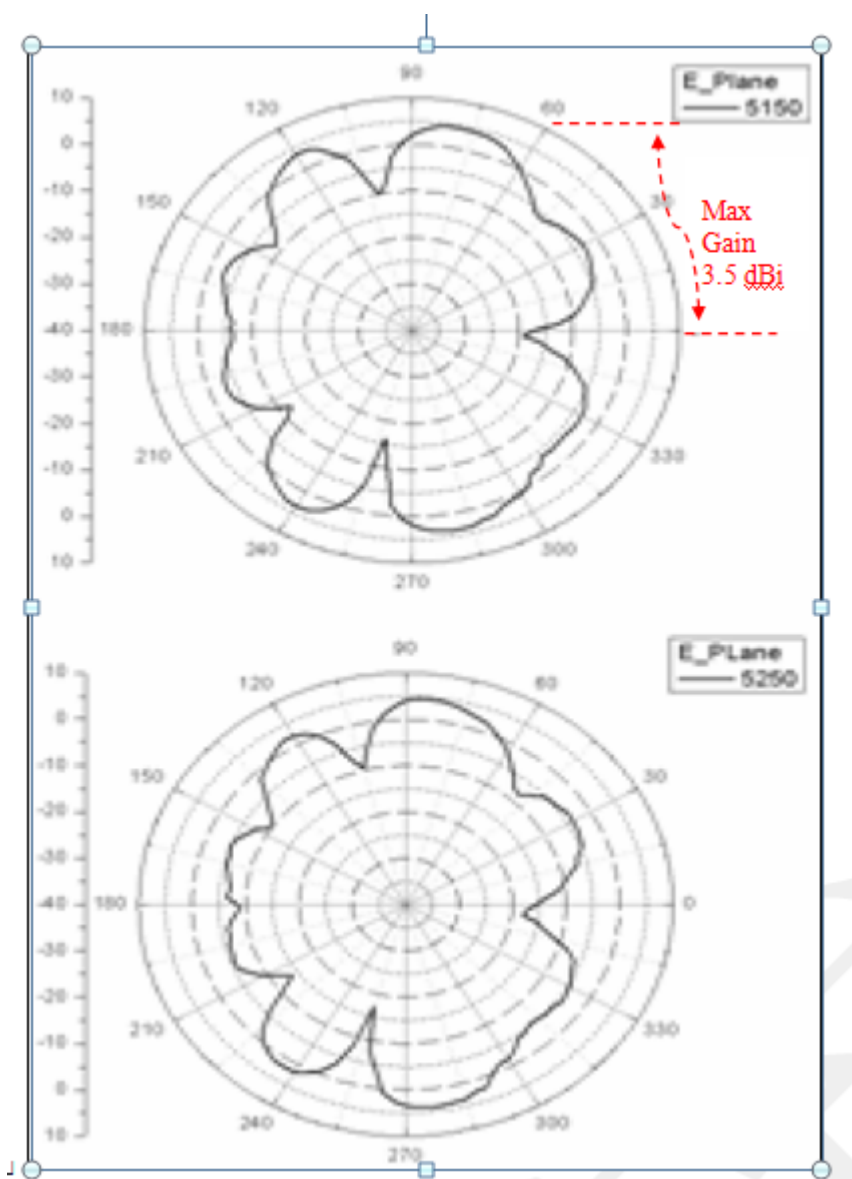
Note: * Transmit power control varies with the product type and specific modulation.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Antenna Pattern



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Result:

MODE	BANDWIDTH (MHz)	FREQUENCY (MHz)	MAXIMUM CONDUCTED OUTPUT POWER (dBm)	ELEVATION ABOVE 30° MAX GAIN (dBi)	ELEVATION ABOVE 30° MAX EIRP (dBm)	EIRP LIMIT (dBm)	RESULT
Configuration IEEE 802.11a	20	5180	17.12	3.5	20.62	21	PASS
		5220	16.91	3.5	20.41	21	PASS
		5240	17.02	3.5	20.52	21	PASS
Configuration IEEE 802.11n_HT20	20	5180	17.02	3.5	20.52	21	PASS
		5220	17.06	3.5	20.56	21	PASS
		5240	17.04	3.5	20.54	21	PASS
Configuration IEEE 802.11_HT40	40	5190	17.42	3.5	20.92	21	PASS
		5230	17.29	3.5	20.79	21	PASS

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