

Radiation Characteristics of antenna located into a Host Platform

Antenna Peak Gain and VSWR w/ cable loss (dB) ¹														2400 ~ 2483.5 MHz 5150-5250 MHz 5250-5350 MHz 5470-5725 MHz 5725-5850 MHz 5850-5895 MHz 5925-6425 MHz 6425-6525 MHz 6525-6875 MHz 6875-7125 MHz													
Antenna Cycle	OEM	ODM	Host Platform Name	Host Platform Type	Intel Platform	Antenna-Manufacturer	Antenna-Type	Antenna-PN	Antenna Main/Aux	SAR min separation (mm)	WiFi-Module	Applicable Certification	SAR FCC/ISED C1142 Apply	Antenna Metrics ²	2.4 GHz	5.2 GHz	5.3 GHz	5.6 GHz	5.8 GHz	5.9 GHz	6.2 GHz	6.5 GHz	6.7 GHz	7.8 GHz	Applicant e-mail	Application Date	UniqueID
202505	Pegatron Corporation	CTL	Q25P2COA732/C	Regular NB	YES	AWAN	PIFA	1415-0801000	Main/Ant.2	8.55	Q21102W-FCC Or	#N/A	YES	Gain	2.24	1.74	2.52	2.35	2.35	2.30	2.70	1.62	2.56	1.95	rev_wu@pegar	2025-04-25	-144310
202505	Pegatron Corporation	CTL	Q25P2COA732/C	Regular NB	YES	AWAN	PIFA	1415-0804000	Aux/Ant.1	199.65	Q21102W-FCC Or	#N/A	YES	Gain	2.31	0.43	1.11	1.39	1.39	0.28	2.19	1.71	2.81	2.44	rev_wu@pegar	2025-04-25	-144310
202505	Pegatron Corporation	CTL	Q25P2COA732/C	Regular NB	YES	AWAN	PIFA	1415-0801000	Main/Ant.2	8.55	Q21102W-FCC Or	#N/A	YES	VSWR	2.00	1.23	1.25	1.08	1.12	1.05	1.05	1.14	1.08	1.40	rev_wu@pegar	2025-04-25	-144310
202505	Pegatron Corporation	CTL	Q25P2COA732/C	Regular NB	YES	AWAN	PIFA	1415-0804000	Aux/Ant.1	199.65	Q21102W-FCC Or	#N/A	YES	VSWR	1.22	1.15	1.08	1.04	1.40	1.09	1.06	1.43	1.02	1.04	rev_wu@pegar	2025-04-25	-144310

1. 3D Antenna Peak Gain required being test in system basis

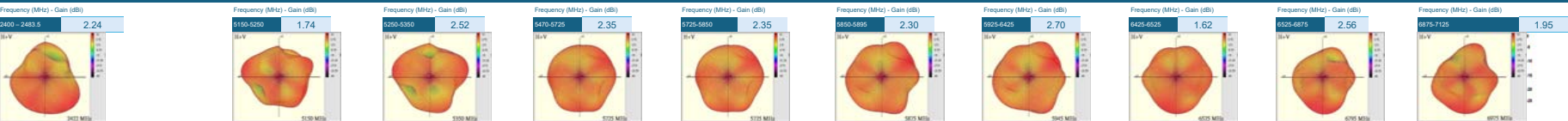
2. Maximum VSWR level required by the Wi-Fi module vendor to ensure proper antenna matching is 2 (S11 < -10 dB) for dual band LHM-B modules and 2.32 (S11 < -8 dB) for triple band LHM-B/LHM modules

Intel Reference Antenna Gain and Type

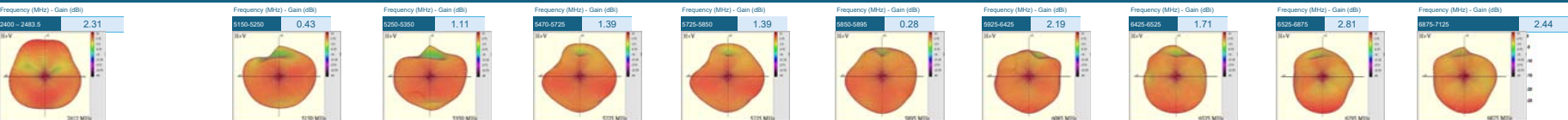
Antenna Type	Application Module	2.4 GHz	5.2 GHz	5.3 GHz	5.6 GHz	5.8 GHz	5.9 GHz	6.2 GHz	6.5GHz	6.7 GHz	7.8 GHz
PISA3	Design Reference	3.00	5.03	5.02	5.02	5.02	5.02	5.02	5.02	5.02	5.02
PISAB	For WiFi 6E and earlier	3.24	3.73	4.77	4.97	4.72	4.83	4.30	5.37	5.99	
PISAB7	For WiFi 7 modules	2.85	5.11	4.55	5.15	4.45	5.02	5.02	4.86	4.96	
Dipole7	For WiFi 6E and earlier	2.85	2.92	3.15	4.41	4.22	4.83	4.30	4.45	5.34	
Dipole7	For WiFi 7	2.85	4.03	4.11	5.15	5.13	4.45	5.02	4.71	4.49	4.96
Monopole	For WiFi 7	2.83	4.57	4.44	4.95	4.43	4.87	4.51	4.91	4.79	

3D Peak Antenna gain should be equal or greater than -2 dBi. If a host integrator plans to use a lower gain antenna of the same type, additional CBP(FCC)/EDT(EU) testing need to be performed while the module is installed in the host.

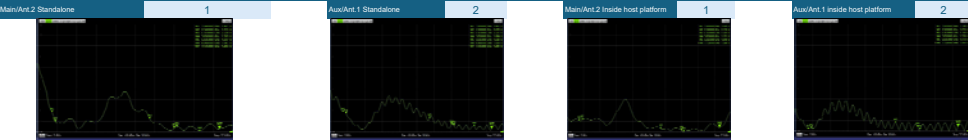
Max Antenna 3D Radiation Pattern - Main Antenna / Ant.2



Max Antenna 3D Radiation Pattern - Aux Antenna / Ant.1



Antenna VSWR data plot inside and outside a host Platform (standalone)



Maximum VSWR level required by the Wi-Fi module vendor to ensure proper antenna matching is 2 (S11 < -10dB)

Unique ID Generator

202505-170814

Copy+Paste below the value of the generated ID to avoid to be changed easily from the file is required. The same ID will be the intended to use the file.