

Antenna Report

Rev.04

Radiation Characteristics of antenna located into a Host Platform

Antenna Peak Gain and VSWR w/ cable loss (dBi) ¹													2400 ~ 2483.5 MHz 5100-5200 MHz 5250-5350 MHz 5470-5725 MHz 5725-5850 MHz 5850-5895 MHz 5925-6425 MHz 6425-6525 MHz 6525-6675 MHz 6675-7125 MHz											Unique ID Generator			
Antenna Cycle	OEM	ODM	Host Platform Name	Host Platform Type	Inteli-Platform	Antenna Manufacturer	Antenna-Type	Antenna-PN	Antenna Main/Aux	SAR min separation (mm)	WiFi Module	Applicable Certification	SAR FCC (IEC) C/PC Apply	Antenna Metrics ¹	2.4 GHz	5.2 GHz	5.3 GHz	5.8 GHz	5.9 GHz	5.9 GHz	6.2 GHz	6.5 GHz	6.7 GHz	7.8 GHz	Applicable cert	Application Date	UniqueID
202504	Samsung	Samsung	NP750NHD	Regular NB	ARL	Kyocera AOX	PIFA	BA42-00798A	Main/Ant.2	8.44	AX201D2W	CE, UKCA, FCC, KCC	NO	Gain	1.70	0.90	1.10	1.70	2.10	3.50	2.80	1.20	1.00	0.10	Notified@antennasys.com	2025-04-07	202504~142415
202504	Samsung	Samsung	NP750NHD	Regular NB	ARL	Kyocera AOX	PIFA	BA42-00798A	Aux/Ant.1	8.44	AX201D2W	CE, UKCA, FCC, KCC	NO	Gain	1.10	0.60	0.70	0.70	2.40	2.20	1.50	0.70	0.20	0.70	Notified@antennasys.com	2025-04-07	202504~142415
202504	Samsung	Samsung	NP750NHD	Regular NB	ARL	Kyocera AOX	PIFA	BA42-00798A	Main/Ant.2	8.44	AX201D2W	CE, UKCA, FCC, KCC	NO	VSWR	-10.80	-17.90	-11.60	-10.60	-20.80	-11.70	-11.00	-15.70	-6.50	-6.60	Notified@antennasys.com	2025-04-07	202504~142415
202504	Samsung	Samsung	NP750NHD	Regular NB	ARL	Kyocera AOX	PIFA	BA42-00798A	Aux/Ant.1	8.44	AX201D2W	CE, UKCA, FCC, KCC	NO	VSWR	-10.30	-17.50	-8.70	-7.20	-4.90	-5.40	-5.10	-5.60	-3.70	-4.30	Notified@antennasys.com	2025-04-07	202504~142415

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

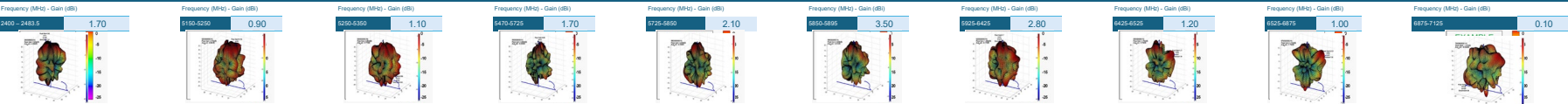
2. Maximum VSWR level required by the Wi-Fi module vendor to ensure proper antenna matching is 2 (S11 < -10 dB) for dual band LSI/B modules and 2.32 (S11 < -8 dB) for triple band LSI/B modules

Intel Reference Antenna Gain and Type

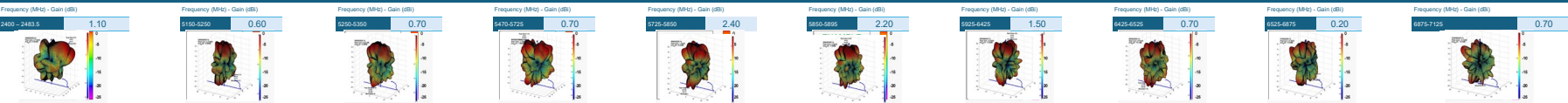
Antenna Type	Application Module	2.4 GHz	5.2 GHz	5.3 GHz	5.8 GHz	5.9 GHz	5.9 GHz	6.2 GHz	6.5GHz	6.7 GHz	7.8 GHz
PIFAS	Design Reference	3.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
PIFAB	For WiFi 6E and earlier	3.24	3.64	3.73	4.77	4.97	4.72	4.83	4.30	5.37	5.59
PIFA7	From WiFi 7 modules	2.95	5.11	4.55	5.15	5.13	4.46	5.92	5.02	4.96	4.96
Dipole	For WiFi 6E and earlier	2.89	2.92	3.19	4.41	4.22	4.83	4.30	4.49	5.34	
Dipole7	From WiFi 7	2.85	4.03	4.11	5.15	5.13	4.45	5.92	4.71	4.49	4.56
Monopole	From WiFi 7	2.83	4.57	4.44	4.95	4.95	4.43	4.87	4.91	4.91	4.79

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

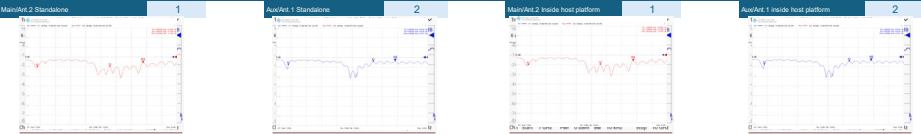
Max Antenna 3D Radiation Pattern - Main Antenna / Ant.2



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)