Antenna Report

Radiation Characteristics of antenna located into a Host Platform

Unique ID Generator: 202604-163826
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Antenna Peak Gain and VSWR w/ cable loss (dBi)[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 CIPC 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	7.0 GHz	Applicant e-mail	Application Date	UniqueID
202604	ACER	Quanta	N26Q1	Tablet	YES	Wistron Neweb Corporation	PIFA	[illegible]	Ant.2	153.90	BE211D2W	CE, UKCA, FCC, ISED, NCC, KC, MIC	YES	Gain	2.74	2.70	2.60	2.93	2.94	2.79	2.79	2.44	2.55	2.88	alan.chiu@acer.com	2026-04-27	202604-154438
202604	ACER	Quanta	N26Q1	Tablet	YES	Wistron Neweb Corporation	PIFA	[illegible]	Ant.1	153.90	BE211D2W	CE, UKCA, FCC, ISED, NCC, KC, MIC	YES	Gain	2.46	2.21	2.31	2.64	2.83	2.83	2.81	2.45	2.59	2.88	alan.chiu@acer.com	2026-04-27	202604-154438
202604	ACER	Quanta	N26Q1	Tablet	YES	Wistron Neweb Corporation	PIFA	[illegible]	Ant.2	153.90	BE211D2W	CE, UKCA, FCC, ISED, NCC, KC, MIC	YES	VSWR	2.59	1.68	1.76	1.44	1.40	1.53	1.53	1.24	1.61	2.48	alan.chiu@acer.com	2026-04-27	202604-154438
202604	ACER	Quanta	N26Q1	Tablet	YES	Wistron Neweb Corporation	PIFA	[illegible]	Ant.1	153.90	BE211D2W	CE, UKCA, FCC, ISED, NCC, KC, MIC	YES	VSWR	1.78	2.08	1.58	1.70	1.47	1.35	1.57	1.52	2.10	2.12	alan.chiu@acer.com	2026-04-27	202604-154438

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

2: OEM/ODM and platform antenna vendors should try to adapt the antenna with a VSWR of 2 (S11<-10dB) for a good antenna matching, and if not possible, try to achieve a VSWR of 3 (S11<-6dB) for a medium antenna matching.

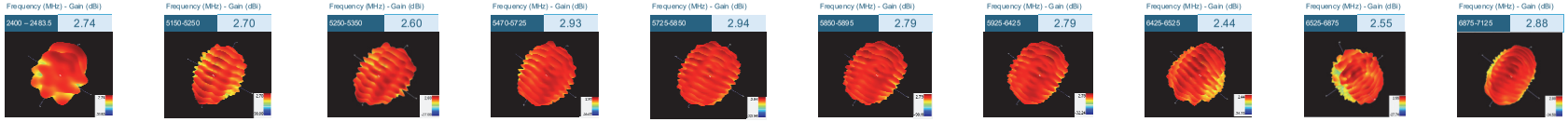
Intel Reference Antenna Gain and Type

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	7.0 GHz
PIFA5	Design Referenc	3.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
PIFA6	For WiFi 6E and	3.24	3.64	3.73	4.77	4.97	4.72	4.83	4.30	5.37	5.59
PIFA7	From WiFi 7 mo	2.95	5.11	4.55	5.15	5.13	4.45	5.02	5.02	4.96	4.96
Dipole	For WiFi 6E and	2.89	2.92	3.19	4.41	4.22	4.22	4.83	4.30	4.49	5.34
Dipole7	From WiFi 7	2.95	4.03	4.11	5.15	5.13	4.45	5.02	4.71	4.49	4.96
Monopole6	For AX211	3.22	3.35	3.42	4.77	4.72	4.71	4.75	4.29	4.81	4.74
Monopole7	From WiFi 7 mo	2.83	4.57	4.44	4.95	4.95	4.43	4.87	4.91	4.91	4.79

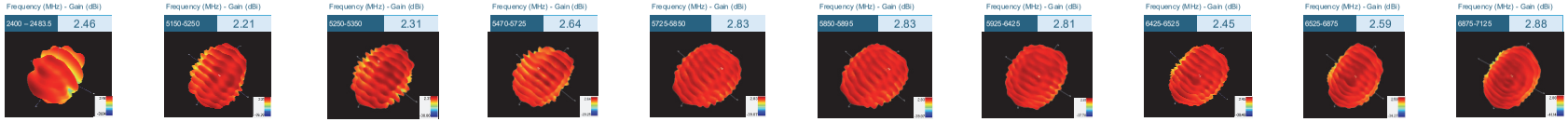
		Applicable limit per antenna type and country cert					Selected Cert:	CE, UKCA, FCC, ISED, NCC, K			
		2.4 GHz	5.2 GHz	5.3 GHz	5.6 GHz	5.8 GHz	5.9 GHz	6.2 GHz	6.5GHz	6.7 GHz	7.0 GHz
Ant.2	PIFA	2.95	5.12	5.12	5.12	5.12	5.12	5.02	5.02	5.02	5.02
Ant.1	PIFA	2.95	5.12	5.12	5.12	5.12	5.12	5.02	5.02	5.02	5.02

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.

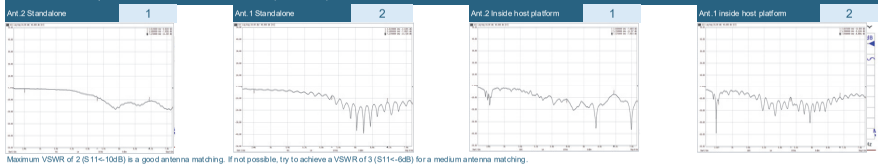
Max Antenna 3D Radiation Pattern - Antenna 2



Max Antenna 3D Radiation Pattern - Antenna 1



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



Maximum VSWR of 2 (S11<-10dB) is a good antenna matching. If not possible, try to achieve a VSWR of 3 (S11<-6dB) for a medium antenna matching.