

Antenna Report

Radiation Characteristics of antenna located into a Host Platform

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 6425-6875 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 C/TPC Assy	Antenna Metrics ²	2.4 GHz	5.2 GHz	5.3 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	
202601	Lenovo China	LCFC	TP001726, ThinkPad T14s Gen 7	Regular NB	AMD Panther Lake	SPEEDWIRE	PiFA	DC33002BV10	Main/Ant.2	10.80	MT7925B14L	CE,UKCA,FCC,ISED,NCC,CCC	YES	Gain	1.88	2.57	2.66	3.30	3.32	3.13	2.56	3.06	2.41	1.75	lenovo@lenovo.com	2025-12-17	202601-094812
202601	Lenovo China	LCFC	TP001726, ThinkPad T14s Gen 7	Regular NB	AMD Panther Lake	SPEEDWIRE	PiFA	DC33002BV10	Aux/Ant.1	10.80	MT7925B14L	CE,UKCA,FCC,ISED,NCC,CCC	YES	Gain	1.76	2.55	2.41	3.48	3.67	3.33	3.21	3.72	3.73	3.97	lenovo@lenovo.com	2025-12-17	202601-094812
202601	Lenovo China	LCFC	TP001726, ThinkPad T14s Gen 7	Regular NB	AMD Panther Lake	SPEEDWIRE	PiFA	DC33002BV10	Main/Ant.2	10.80	MT7925B14L	CE,UKCA,FCC,ISED,NCC,CCC	YES	VSWR	1.21	1.41	1.38	1.29	1.55	1.46	1.61	1.38	1.40	1.25	lenovo@lenovo.com	2025-12-17	202601-094812
202601	Lenovo China	LCFC	TP001726, ThinkPad T14s Gen 7	Regular NB	AMD Panther Lake	SPEEDWIRE	PiFA	DC33002BV10	Aux/Ant.1	10.80	MT7925B14L	CE,UKCA,FCC,ISED,NCC,CCC	YES	VSWR	1.32	1.76	1.21	1.49	1.11	1.19	1.35	1.79	1.58	1.08	lenovo@lenovo.com	2025-12-17	202601-094812

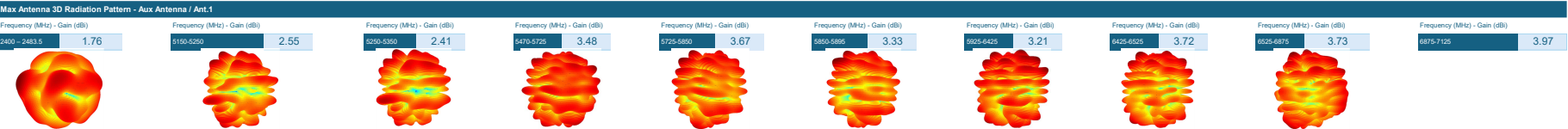
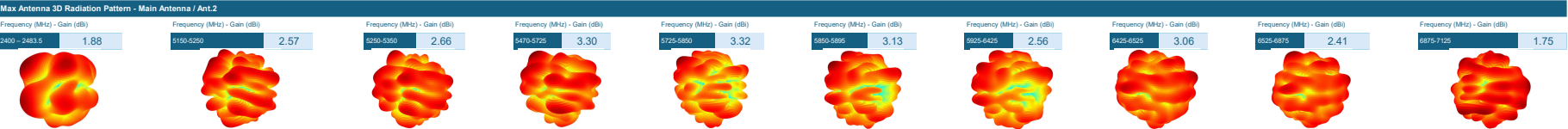
1: 3D Antenna Peak Gain required being test in system basis

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	2.4 GHz	5.2 GHz	5.3 GHz	5.5 GHz	5.8 GHz	5.9 GHz	6.2 GHz	6.5GHz	6.7 GHz
PiFA-3	Design Reference	3.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
PiFA-6	For WiFi 6E and e6e	3.24	5.64	3.73	4.77	4.72	4.83	4.30	5.37	5.59
PiFA-7	From WiFi 7 module	2.95	5.11	4.56	5.15	5.13	4.45	5.02	4.96	4.96
Dipole	For WiFi 6E and e6e	2.89	2.92	3.19	4.41	4.22	4.83	4.30	4.49	5.34
Dipole/7	From WiFi 7	2.95	4.03	4.11	5.15	5.13	4.45	5.02	4.71	4.49
Monopole	From WiFi 7	2.83	4.57	4.44	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 CBR(FCC)/EDT(EU) testing need to be performed while the module is installed in the host.

Applicable limit per antenna type and country cart										Selected Cart: CE, UKCA, FCC, ISED, NCC, CCC				
		2.4 GHz	5.2 GHz	5.3 GHz	5.5 GHz	5.8 GHz	5.9 GHz	6.2 GHz	6.5GHz	6.7 GHz	7.0 GHz			
Main/Ant. 2	PiFA	2.95	5.00	4.55	5.00	5.00	4.45	5.00	5.00	4.96	4.96			
AUX/Ant. 1	PiFA	2.95	5.00	4.55	5.00	5.00	4.45	5.00	5.00	4.96	4.96			



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.

Combo Cable Loss (dB)										
	2.4GHz	5.2GHz	5.3GHz	5.6GHz	5.8GHz	5.9GHz	6.2GHz	6.5GHz	6.7GHz	7.0 GHz
	2400-2483.5 MHz	5150-5250MHz	5250-5350MHz	5470-5725MHz	5725-5850MHz	5850-5895MHz	6425-6825MHz	6825-6875MHz	6875-7125MHz	
Main	0.52	0.79	0.80	0.82	0.83	0.83	0.85	0.87	0.88	0.89
Aux	0.71	1.09	1.10	1.13	1.14	1.15	1.18	1.20	1.21	1.23

Unique ID Generator
202601-113218

Copy/Paste below the value of the generated ID to avoid it to be changed even when the file is opened. This value ID will be the required to use the file.