

Antenna Report

Radiation Characteristics of antenna located into a Host Platform

Antenna Peak Gain and VSWR w/ cable loss (dBi)¹

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 C1PC Apply
202511	Lenovo China	Compal	LOQ Essential 15ARP11	Regular NB	No	HTK	PIFA	DC330033500 (DACCN025008N)	Main/Ant.2	23.88	MT7920	CCA, FCC, ISED, NCC, KC	NO
202511	Lenovo China	Compal	LOQ Essential 15ARP11	Regular NB	No	HTK	PIFA	DC330033510 (DACCN025009N)	Aux/Ant.1	23.88	MT7920	CE, UKCA, FCC, SED, NCC, KCC, MCC	NO
202511	Lenovo China	Compal	LOQ Essential 15ARP11	Regular NB	No	HTK	PIFA	DC330033500 (DACCN025008N)	Main/Ant.2	23.88	MT7920	CE, UKCA, FCC, SED, NCC, KCC, MCC	NO
202511	Lenovo China	Compal	LOQ Essential 15ARP11	Regular NB	No	HTK	PIFA	DC330033510 (DACCN025009N)	Aux/Ant.1	23.88	MT7920	CE, UKCA, FCC, SED, NCC, KCC, MCC	NO

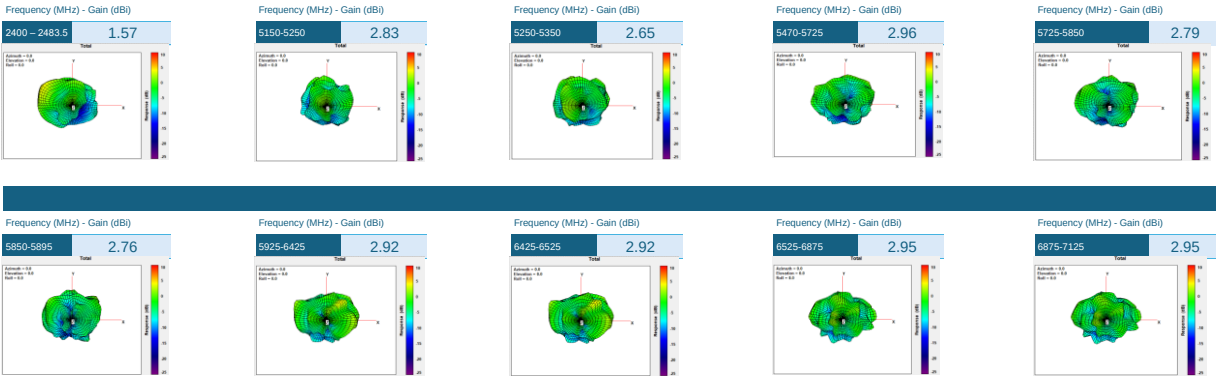
Antenna Metrics ²	2.4 GHz	5.2 GHz	5.3 GHz	5.6 GHz	5.8 GHz	5.9 GHz	6.2 GHz	6.5 GHz	6.7 GHz	7.0 GHz	Applicant e-mail	Application Date
Gain	1.57	2.83	2.65	2.96	2.79	2.76	2.92	2.92	2.95	2.95	ElvishHY_Chen@lenovo.com	2025-11-14
VSWR	2.09	1.09	0.84	1.84	2.92	2.92	2.97	2.97	2.87	2.90	ElvishHY_Chen@lenovo.com	2025-11-14
VSWR	1.52	1.26	1.20	1.32	1.35	1.37	1.09	1.56	1.08	1.07	ElvishHY_Chen@lenovo.com	2025-11-14
VSWR	1.39	1.47	1.76	1.27	1.20	1.44	1.13	1.18	1.03	1.04	ElvishHY_Chen@lenovo.com	2025-11-14

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

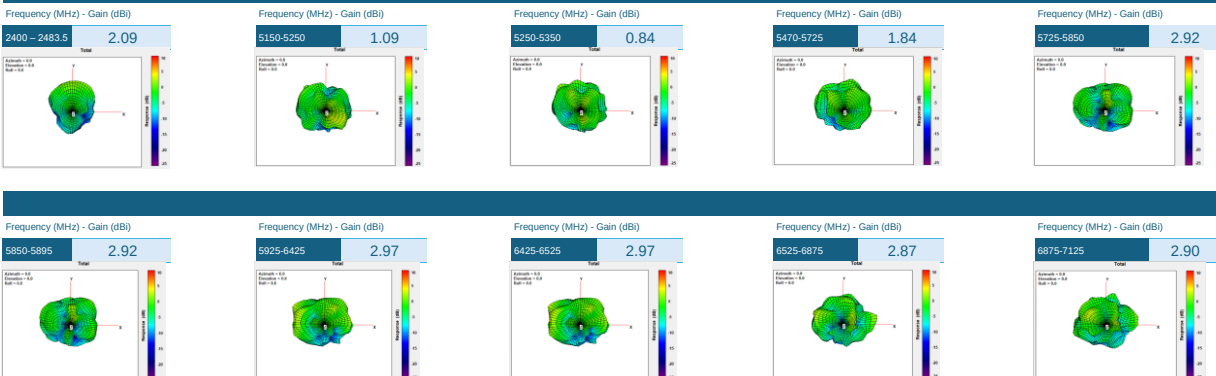
2: Maximum VSWR level required by the Wi-Fi module vendor to ensure proper antenna matching is 2 (S11 < -10 dB) for dual band LBAHB modules and 2.32 (S11 < -8 dB) for triple band LBAHB modules

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.

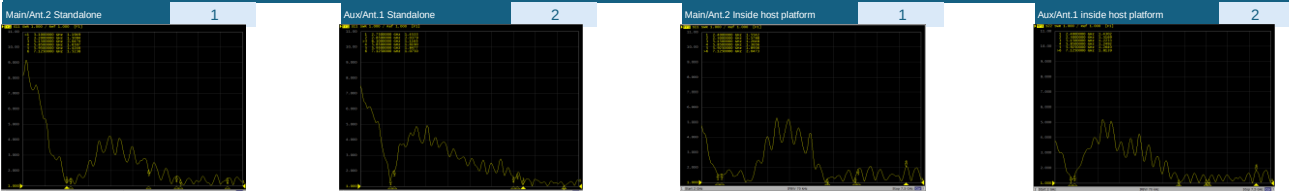
Max Antenna 3D Radiation Pattern - Main Antenna / Ant.2



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)

Cable loss (dB)	2.4GHz	5.2GHz	5.3GHz	5.6GHz	5.8GHz	5.9GHz	6.2GHz	6.5GHz	6.7GHz	7.0 GHz
Band / Frequency	2400-2483.5 MHz	5150-5250MHz	5250-5350MHz	5470-5725MHz	5725-5850MHz	5850-5895MHz	5925-6425MHz	6425-6525MHz	6525-6875MHz	6875-7125MHz
Main	1.00	1.43	1.43	1.53	1.55	1.56	1.62	1.64	1.68	1.77
Aux	1.24	1.77	1.77	1.90	1.93	1.94	2.01	2.03	2.08	2.20