

Antenna Report

Radiation Characteristics of antenna located into a Host Platform

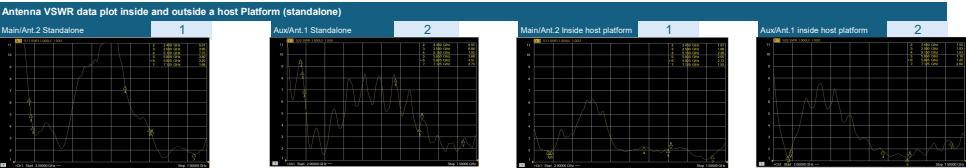
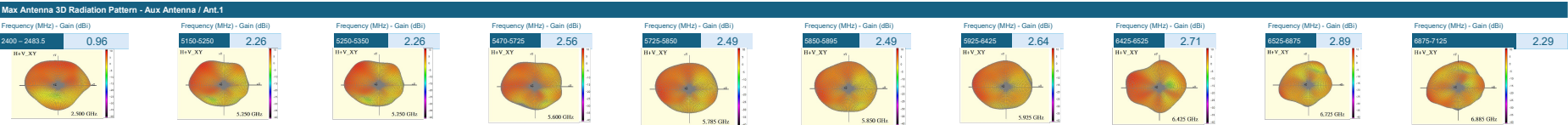
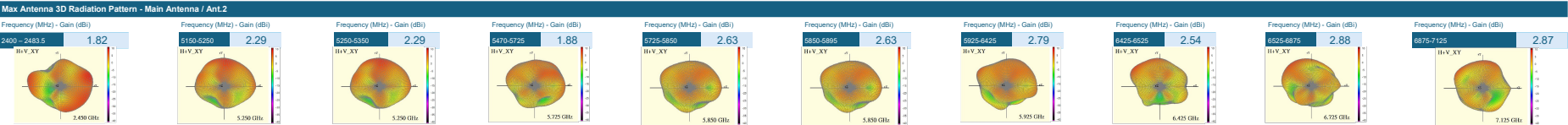
Antenna Peak Gain and VSWR w/ cable loss (dB) ¹														2400 – 2483.5 MHz 5150-5250 MHz 5250-5350 MHz 5470-5725 MHz 5725-5850 MHz 5850-5895 MHz 5925-6425 MHz 6425-6525 MHz 6525-6875 MHz 6875-7125 MHz										Unique ID Generator 202507-141130			
Antenna Cycle	OEM	ODM	Host Platform Name	Host Platform Type	Intel Platform	Antenna-Manufacturer	Antenna-Type	Antenna-PN	Antenna Main/Aux	SAR min separation (mm)	WiFi-Module	Applicable Certification	SAR FCC-ISED CTPC Ant.	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
202507	Getac					Getac	PIFA	422GB76000022	Main/Ant.2		BE201NGW	FCC-ISED CE, UKCA, KCC, MCC		Gain	1.82	2.29	2.29	1.88	2.63	2.63	2.79	2.54	2.88	2.87			202506-092806
202507	Getac	0	0	0	0	Getac	PIFA	422GB76000017	Aux/Ant.1	0.00	BE201NGW	FCC-ISED CE, UKCA, KCC, MCC	0	Gain	0.96	2.26	2.26	2.56	2.49	2.49	2.64	2.71	2.89	2.29	0	1900-01-00	202506-092806
202507	Getac	0	0	0	0	Getac	PIFA	422GB76000022	Main/Ant.2	0.00	BE201NGW	FCC-ISED CE, UKCA, KCC, MCC	0	VSWR	-10.39	-8.50	-9.81	-10.23	-9.88	-9.81	-8.23	-20.30	-19.50	-14.31	0	1900-01-00	202506-092806
202507	Getac	0	0	0	0	Getac	PIFA	422GB76000017	Aux/Ant.1	0.00	BE201NGW	FCC-ISED CE, UKCA, KCC, MCC	0	VSWR	-15.30	-12.50	-13.70	-18.30	-21.00	-19.20	-20.10	-7.25	-10.00	-7.10	0	1900-01-00	202506-092806

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	5.6 GHz	5.8 GHz	5.9 GHz	6.2 GHz	6.5 GHz	6.7 GHz	7.0 GHz
PFAS	Design Reference	3.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
PFAS	For WiFi 6E and ear	3.24	3.73	3.77	4.77	4.07	4.72	4.63	4.30	5.37	5.59
PFA7	From WiFi 7 module	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 ear	2.89	2.82	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	4.48	4.96
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 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.



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.

Mechanical Information

Antenna Location for SAR evaluation Cable Assembly

Include a dimensioned photo(s) or dimensioned drawing(s) showing the distance (mm) between the transmit antennas and the user. For notebook/laptop hosts show lapfield position (example below). For tablet hosts show all orientations including lapfield, primary & secondary portrait, primary & secondary landscape positions. Include a description of any proximity sensors or power throttling implementations that limit or exclude use of any host orientation.

Notebook- Antenna on the panel section



SAR Separation Distance - Notebook		
Measuring Surface	Antenna	Distance (mm)
Top Side	Main/Ant.2	
	Aux/Ant.1	
Right Edge	Main/Ant.2	
	Aux/Ant.1	
Left Edge	Main/Ant.2	
	Aux/Ant.1	
Bottom Side	Main/Ant.2	
	Aux/Ant.1	

SAR Separation Distance		
Measuring Surface	Antenna	Distance (mm)
Top Side of KB	Main/Ant.2	
	Aux/Ant.1	
Right Edge	Main/Ant.2	
	Aux/Ant.1	
Left Edge	Main/Ant.2	
	Aux/Ant.1	
Bottom Side	Main/Ant.2	
	Aux/Ant.1	
Front Edge	Main/Ant.2	
	Aux/Ant.1	

SAR Separation Distance - Tablet		
Measuring Surface	Antenna	Distance (mm)
Front Side	Main/Ant.2	
	Aux/Ant.1	
Rear Side	Main/Ant.2	
	Aux/Ant.1	
Top Side	Main/Ant.2	
	Aux/Ant.1	
Bottom Side (Hinge)	Main/Ant.2	
	Aux/Ant.1	