

ANTENNA INFORMATION

OEM	Speed
ODM	Compal Electronics Inc.
Platform model name	P143F
Intel platform (ex: Yes, No or NA)	Yes
Platform type (ex: regular NB, convertible PC, AIO...etc)	Regular NB
SAR minimum separation (mm)	FCC (1g) 1.5mm (w/bumper) 0.8 mm (w/o bumper)
	ISED (1g) 1.5 mm (w/bumper) 0.8mm (w/o bumper)
	ISED (10g) 0.25 mm

Antenna manufacturer	Company name	Speed Wireless Co., Ltd.
	Address	25F., No. 95, Xipu 6th St., Taoyuan Dist., Taoyuan City 33044, Taiwan (R.O.C.)
Test location	Company name	Speed Wireless Co., Ltd.
	Address	25F., No. 95, Xipu 6th St., Taoyuan Dist., Taoyuan City 33044, Taiwan (R.O.C.)
Test Personnel	Name(Full name)	Carina Wu
	E-mail	Carina_wu@speed-hz.com
	Tel/Mobile	03-3253360
Testing date		2025/01/15

Antenna Part number	Main	Compal P/N: DC33002YK0L
		Antenna P/N: F-0G-FH-6184-001-00
	Aux	Compal P/N: DC33002YK0L
		Antenna P/N: F-0G-FH-6184-001-00
Antenna type (ex: PIFA, Dipole...etc)		Monopole

Antenna Peak gain w/ cable loss (dBi)*										
	2.4GHz 2400-2483.5 MHz	5.2GHz 5150-5250MHz	5.3GHz 5250-5350MHz	5.6GHz 5470-5725MHz	5.8GHz 5725-5850MHz	5.9GHz 5850-5895MHz	6.2GHz 5925-6425MHz	6.5GHz 6425-6525MHz	6.7GHz 6525-6875MHz	7.0 GHz 6875-7125MHz
Main	2.81	2.92	2.97	2.36	1.88	1.82	3.19	3.19	3.45	1.66
Aux	2.12	2.82	2.53	2.43	0.99	0.80	1.12	1.50	1.63	2.61

Cable Assembly Part Number and Information					
	Cable PN	Cable length(mm)	Cable diameter(mm)	Impedance(ohm)	Connector type
Main	SY113L/50-143	173	1.13	50	I-PEX MHF-4L(20565-001R-13)
Aux	SY113L/50-118	296	1.13	50	I-PEX MHF-4L(20565-001R-13)

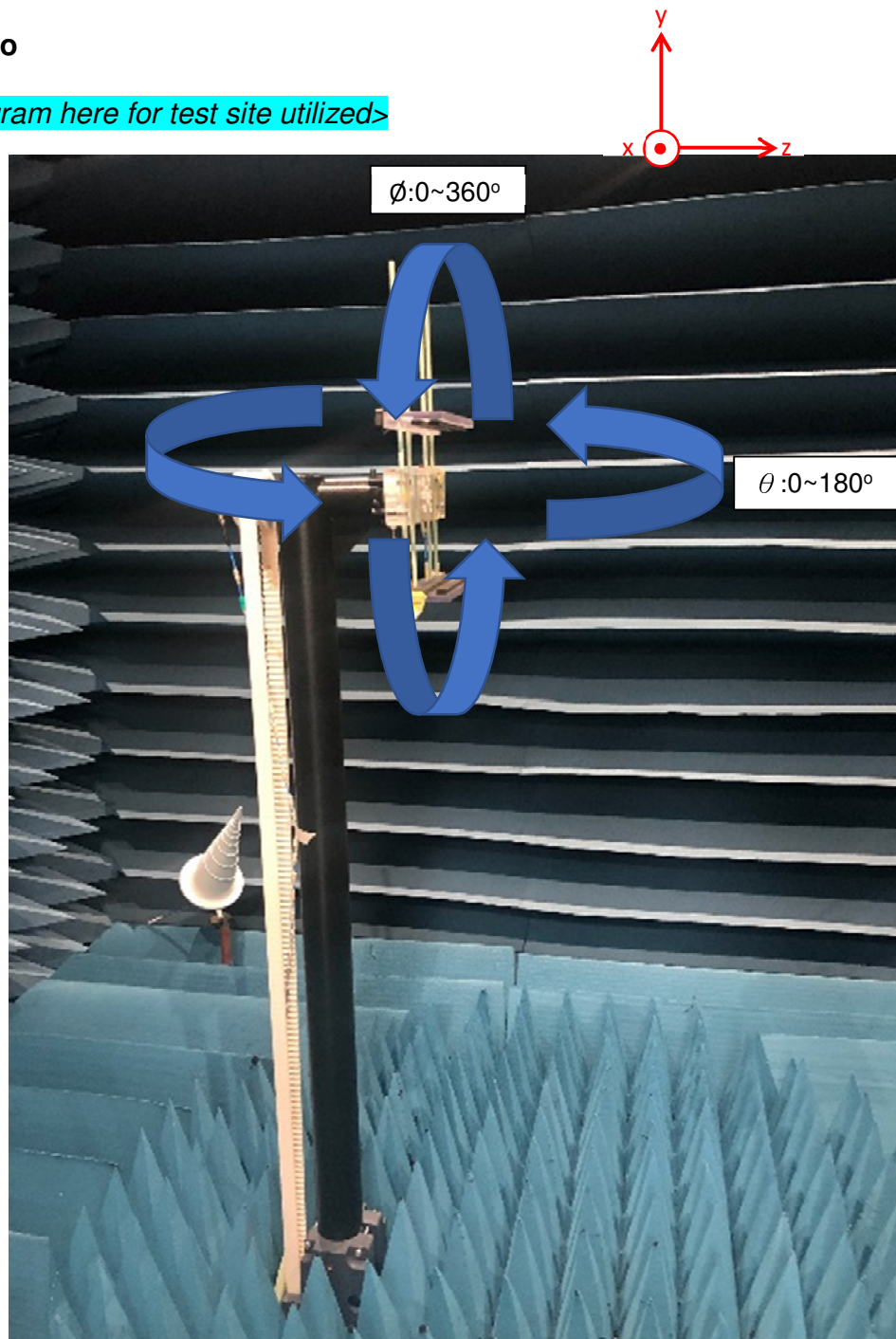
* 3D Antenna Peak Gain required being test in system basis.

Cable loss (dBi)										
	2.4GHz 2400-2483.5 MHz	5.2GHz 5150-5250MHz	5.3GHz 5250-5350MHz	5.6GHz 5470-5725MHz	5.8GHz 5725-5850MHz	5.9GHz 5850-5895MHz	6.2GHz 5925-6425MHz	6.5GHz 6425-6525MHz	6.7GHz 6525-6875MHz	7.0 GHz 6875-7125MHz
Main	-0.37	-0.60	-0.61	-0.63	-0.66	-0.68	-0.68	-0.70	-0.71	-0.75
Aux	-0.63	-1.02	-1.04	-1.08	-1.14	-1.16	-1.17	-1.20	-1.22	-1.28

Annex A. Photographs

A.1 Setup Photo

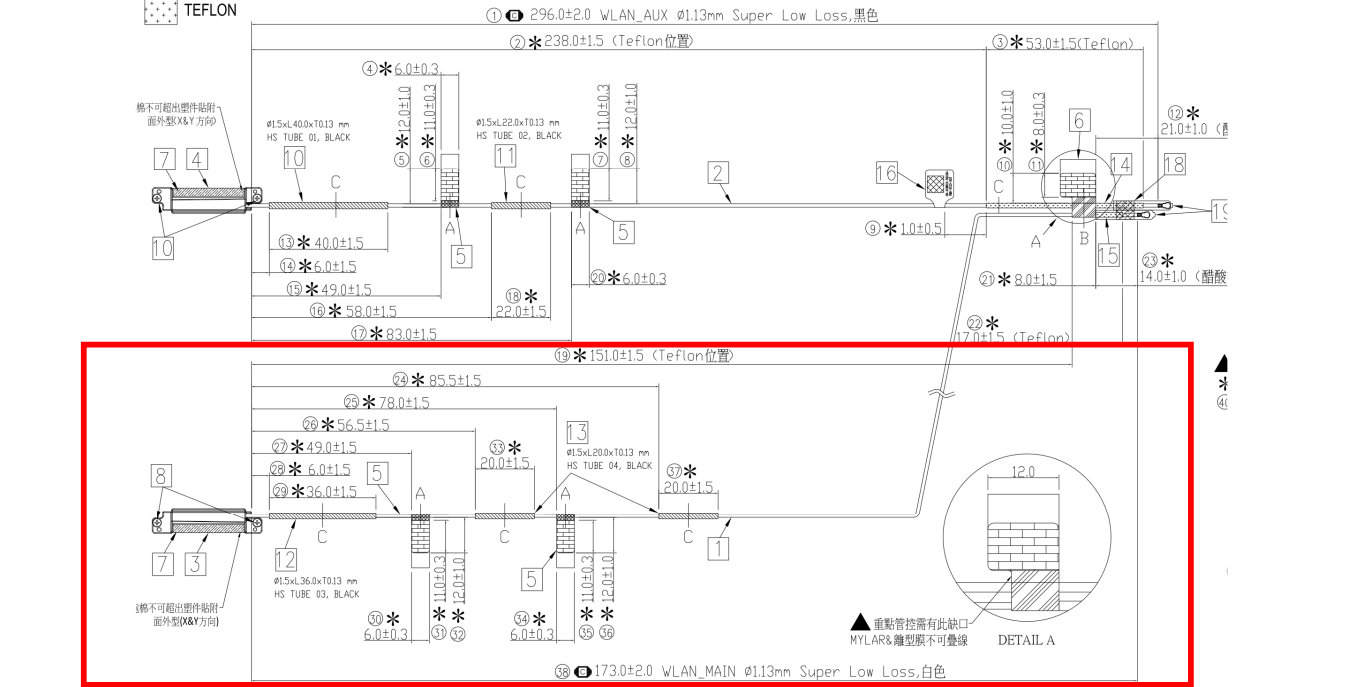
<insert test diagram here for test site utilized>



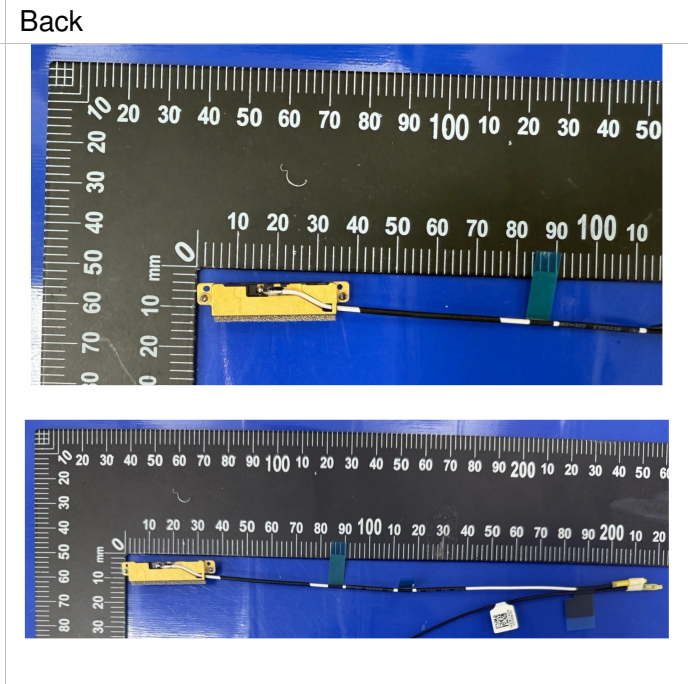
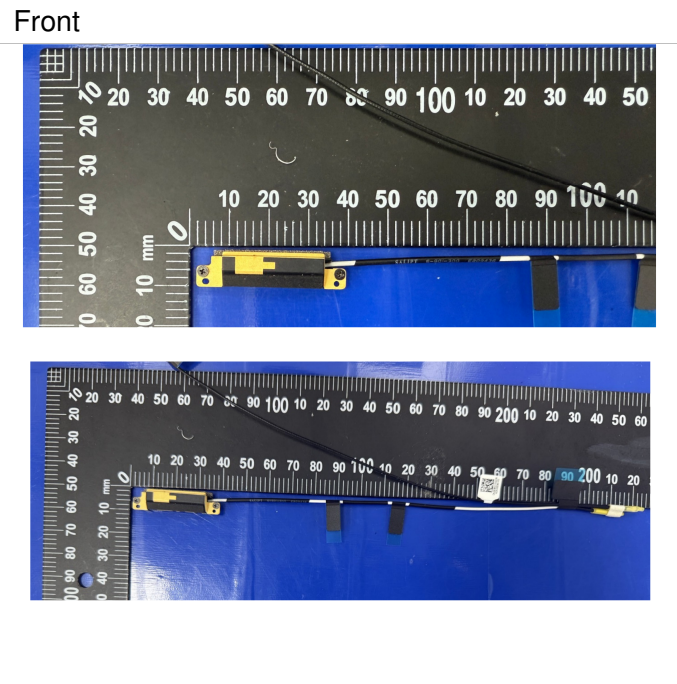
A.2 Test sample

Main Antenna

Antenna Drawing



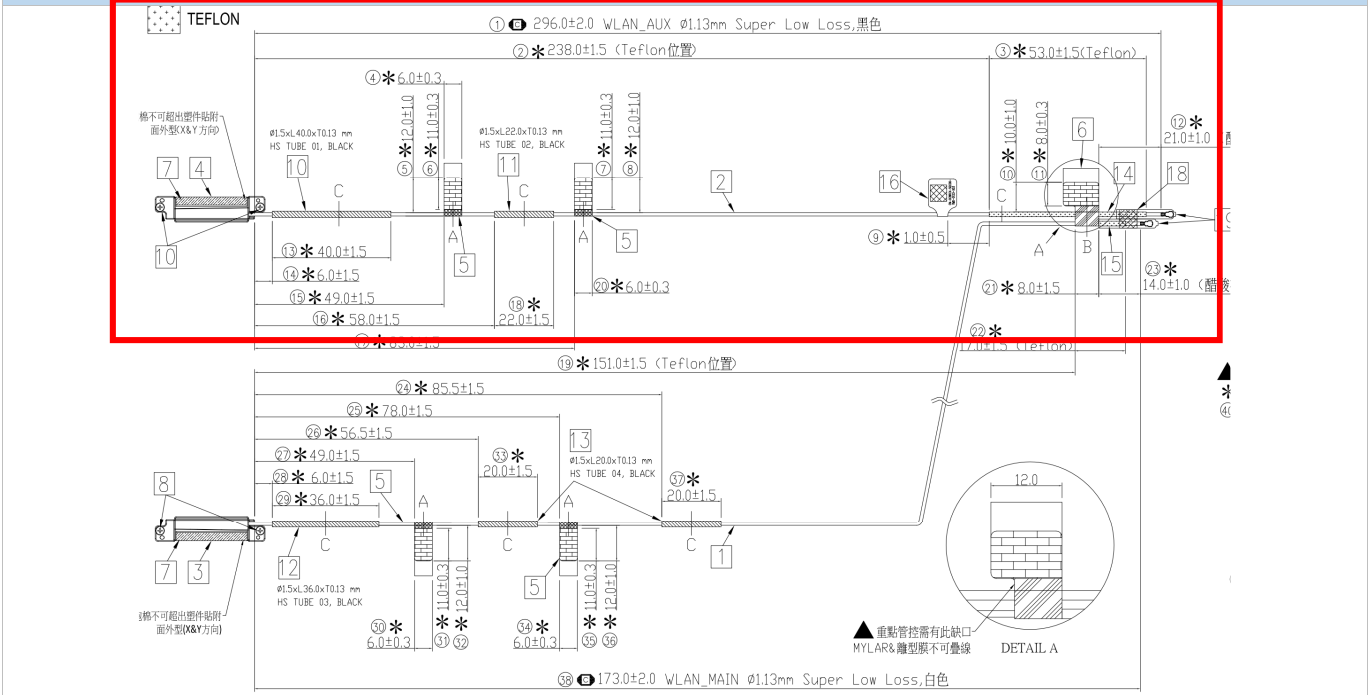
Antenna Photo



Note: antenna photo should include L type ruler

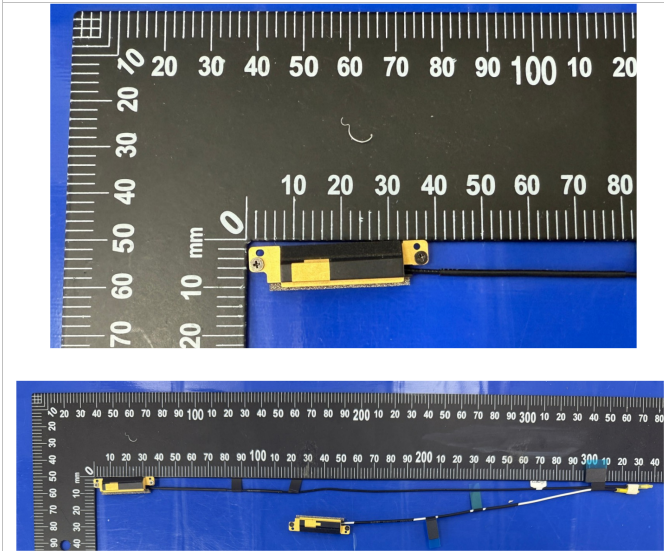
Aux Antenna

Antenna Drawing

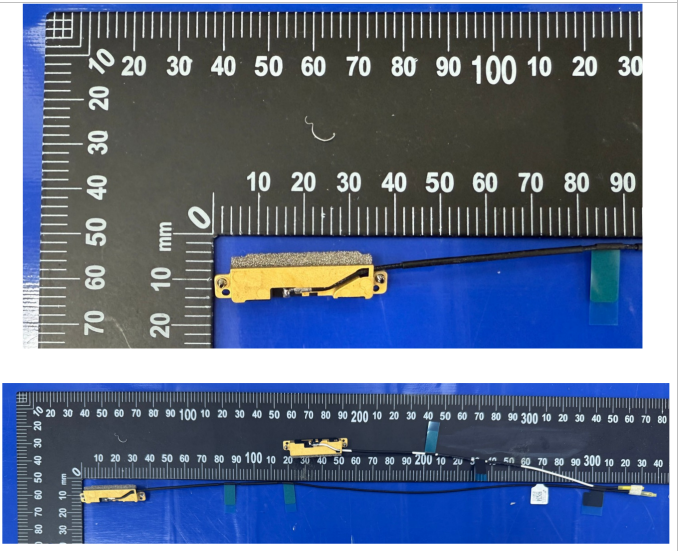


Antenna Photo

Front



Back



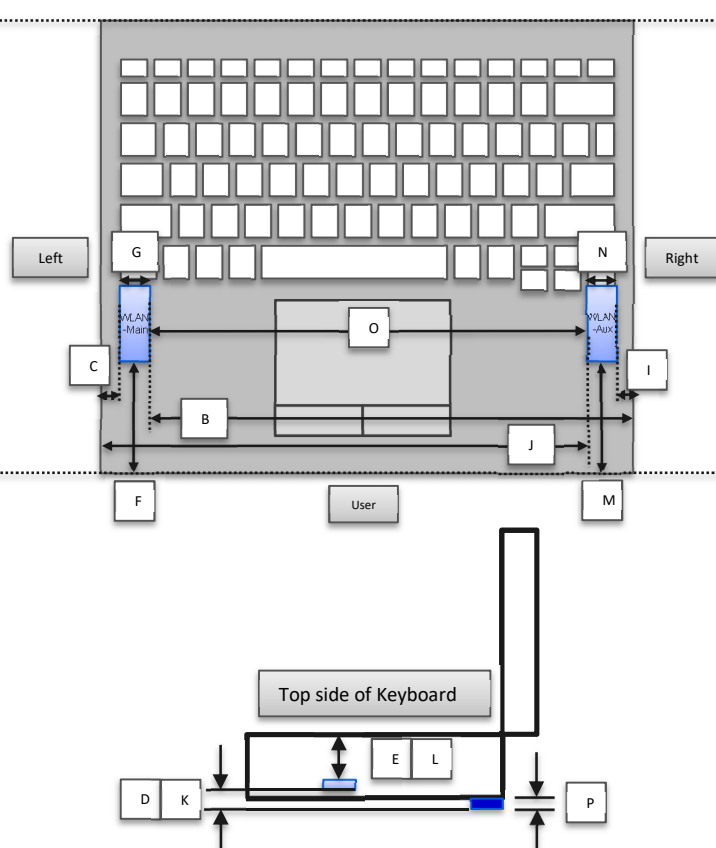
Note: antenna photo should include L type ruler

Annex B. Antenna Location

B.1 Antenna Host Platform Location Information

Include a dimensioned photo(s) or dimensioned drawing(s) of Main and Aux antenna placements (measurements are not required for receive-only antenna).

Any antenna that transmits must show dimensions to bottom of laptop. Provide a description of the materials that are used for supporting or surrounding transmit antennas; for example, non-conductive plastics vs. conductive coated plastic or metallic materials.



Minimum Separation Distance				
Item	Antenna	Position	Distance (mm)	1g or 10g SAR
B	WLAN-Main	to Right	342	10g (ISED)
C		to Left	3	10g (ISED)
D		to Bottom of laptop	1.5	1g (FCC/ISED)
E		To Top side of Keyboard	0.25	10g (ISED)
F		to User (front)	37	1g (FCC/ISED)
I	WLAN-Aux	to Right	3	10g (ISED)
J		to Left	342	10g (ISED)
K		to Bottom of laptop	1.5	1g FCC/ISED)
L		To Top side of Keyboard	0.25	10g (ISED)
M		to User (front)	37	1g FCC/ISED)
O	Main-Aux	Main to Aux	330	
P	NB	Bumper thickness	0.7	

B.2 Antenna dimensional information for SAR evaluation

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 lapheld position (example below). For tablet hosts show all orientations including lapheld, 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.

Antennas on the panel section

