Doc.No.:3.8.05 Rev00

ANTENNA INFORMATION

OEM	ALIENWARE
ODM	Compal
Platform model name	P120F
Intel platform (ex: Yes, No or NA)	Yes
Platform type (ex: regular NB, convertible PC, AIO…etc)	Regular NB
SAR minimum separation (mm)	6.24mm w/ bumper 3.27mm w/o bumper

Antenna manufacturer	WNC
Address	20 Park Avenue II, Hsinchu Science Park, Hsinchu 308, Taiwan
Antenna Part number	Main: 81ELA715.G60 (DC33002QW0L) Aux: 81ELA715.G62 (DC33002QW1L)
Antenna type (ex: PIFA, Dipole…etc)	PIFA

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	2.10	1.80	2.09	2.24	2.63	2.77	3.27	2.57	3.41	2.82
Aux	2.37	2.04	1.48	2.69	2.69	2.25	3.55	3.23	3.37	3.44

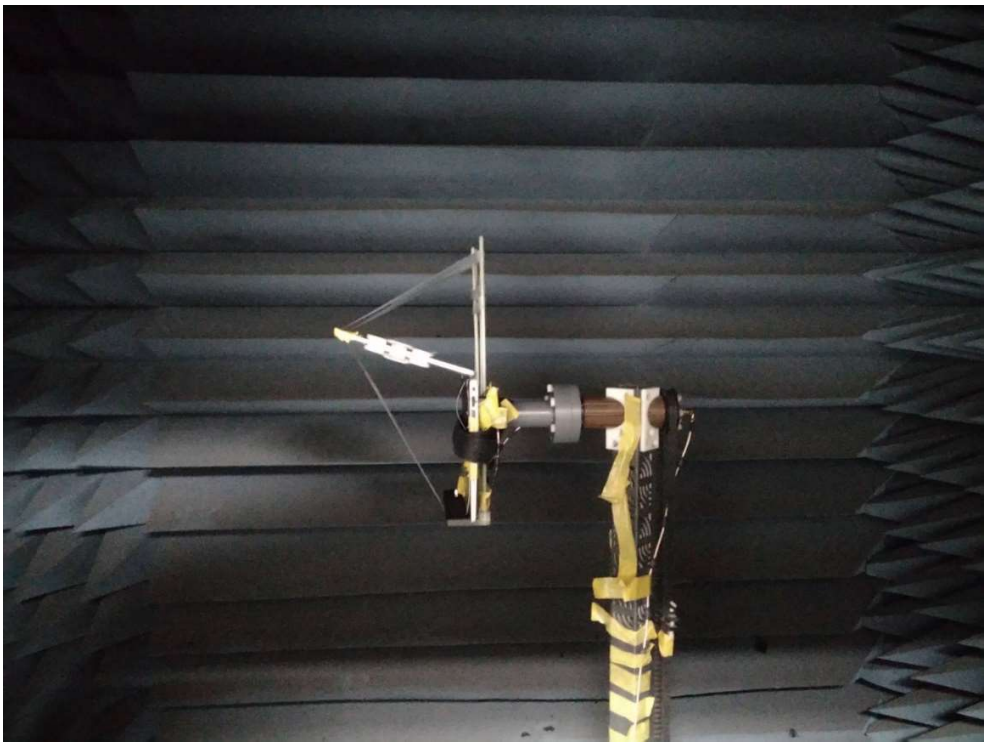
Cable Assembly Part Number and Information					
	Cable PN	**Cable length**(cm)	**Cable diameter**(mm)	**Impedance**(ohm)	**Connector type**
Main	IPEX-20565	32.55	1.37	50	IPEX
Aux	IPEX-20565	15.15	1.37	50	IPEX

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

Table of Contents

Annex A. Photographs

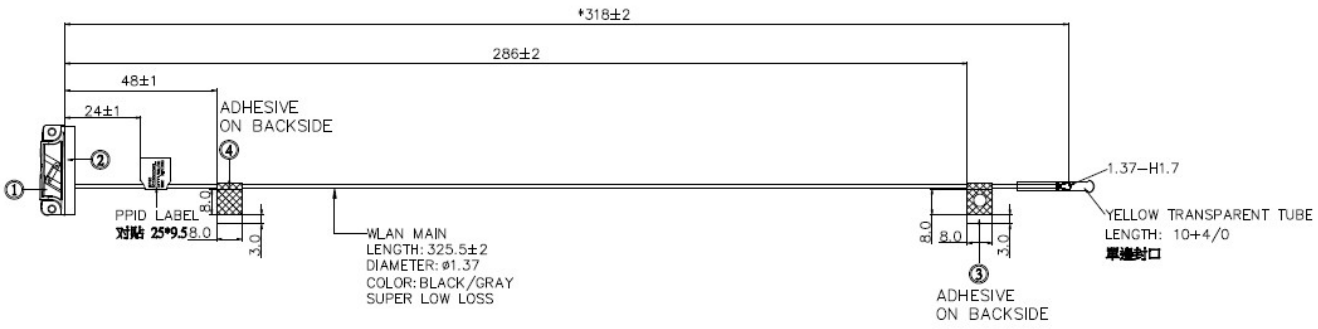
A.1 Setup Photo



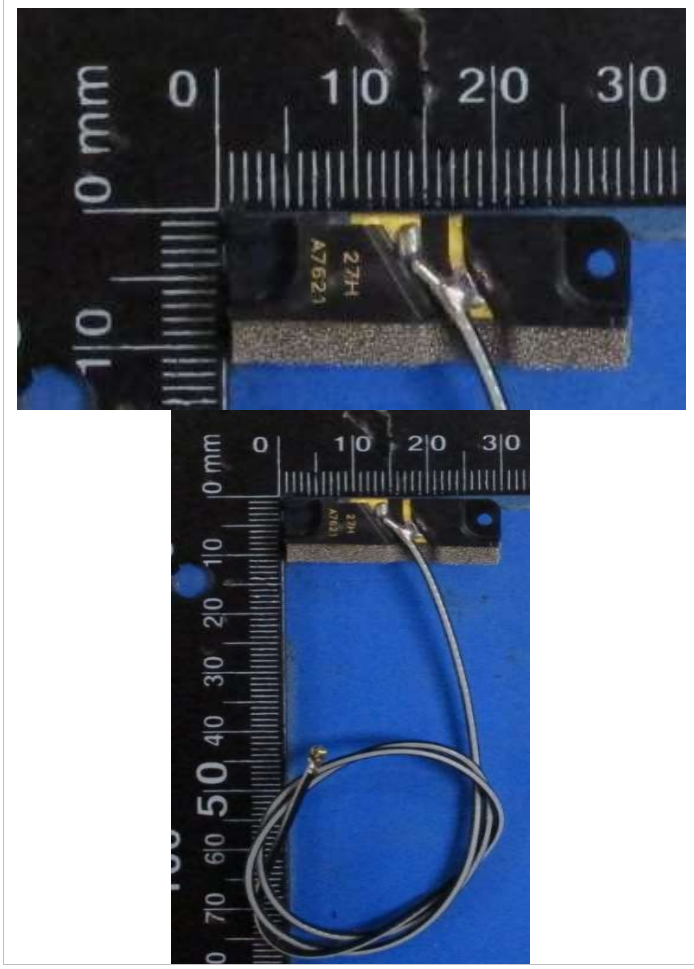
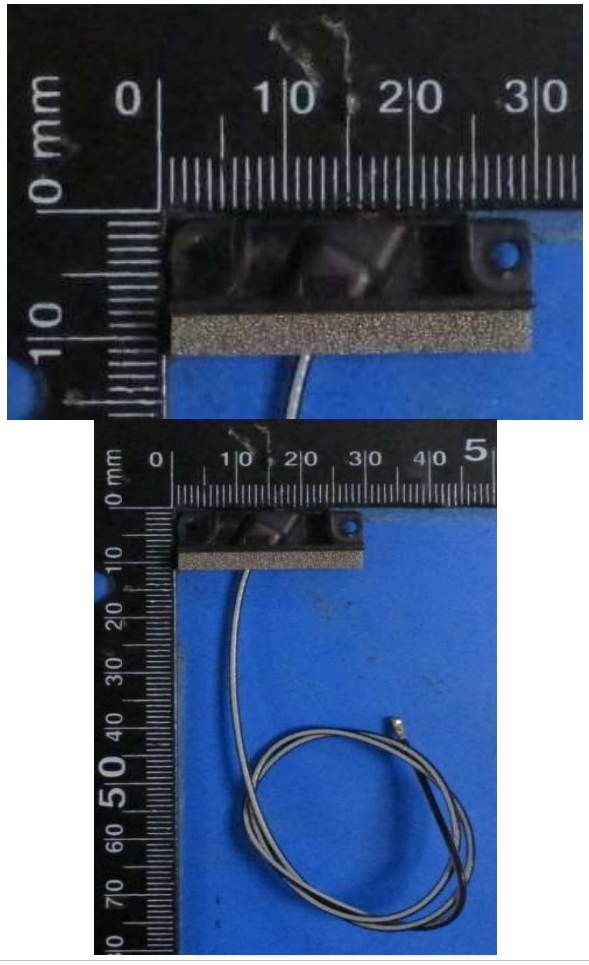
A.2 Test sample

Main Antenna

Antenna Drawing



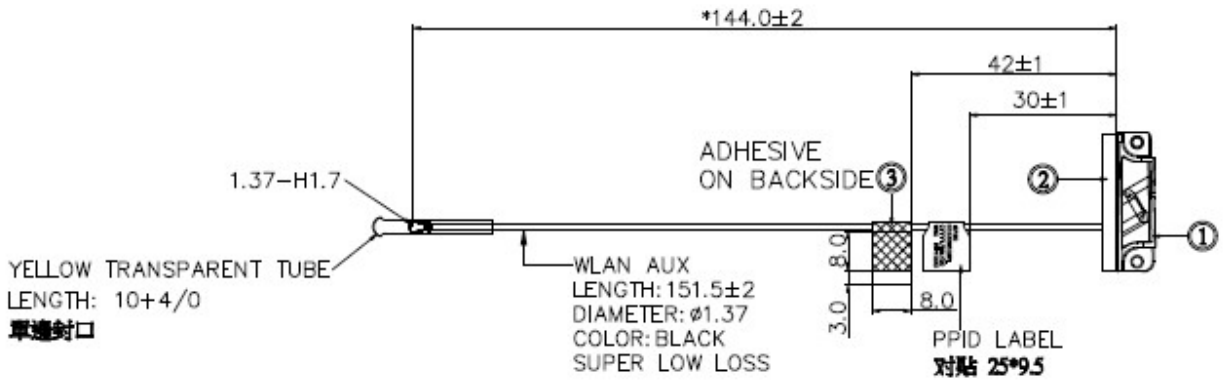
Antenna Photo

Front	Back
	

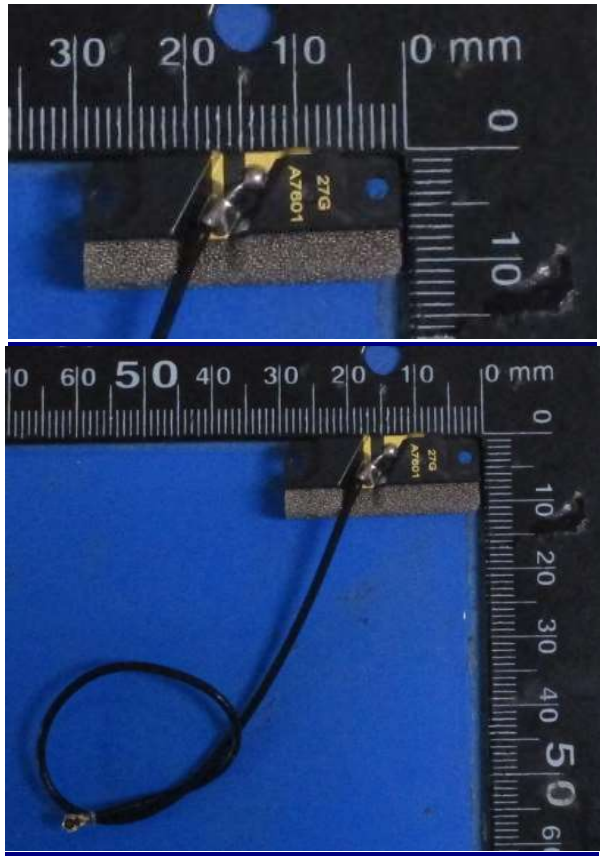
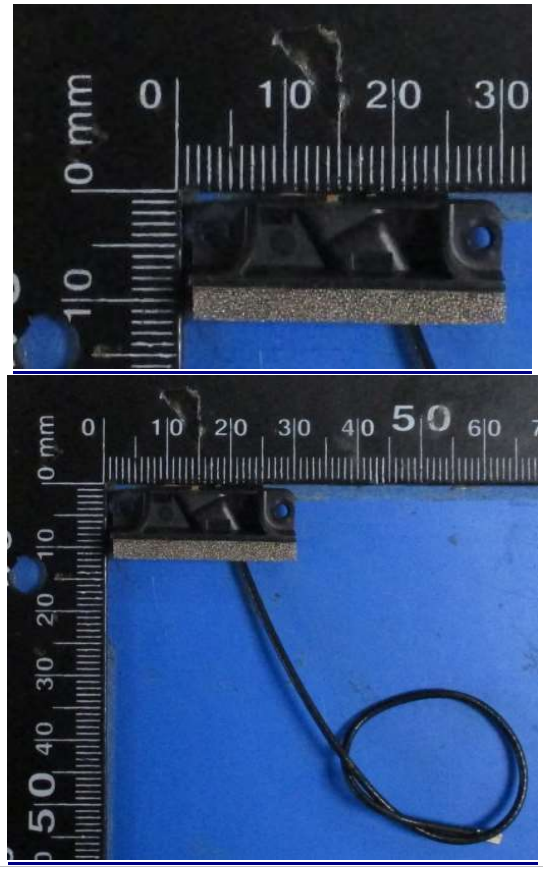
Note: antenna photo should include L type ruler

Aux Antenna

Antenna Drawing



Antenna Photo

Front	Back
	

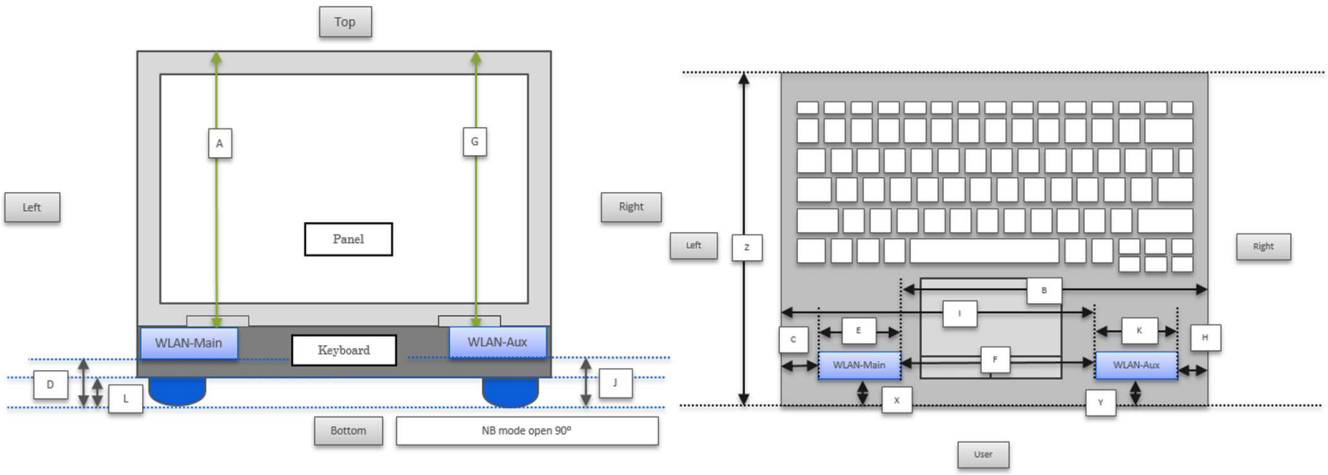
Note: antenna photo should include L type ruler

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)
A	WLAN-Main	to Top	264.17
B	WLAN-Main	to Right	350.17
C	WLAN-Main	to Left	1.89
D	WLAN-Main	to Bottom	6.24
E	WLAN-Main	Main Antenna Length	7.96
F	Main-Aux	Main to Aux	340.46
G	WLAN-Aux	to Top	264.17
H	WLAN-Aux	to Right	1.89
I	WLAN-Aux	to Left	350.17
J	WLAN-Aux	to Bottom	6.24
K	WLAN-Aux	Aux Antenna Length	7.96
L	NB	Bumper thickness	6.05
X	WLAN-Main	to User	42.7
Y	WLAN-Aux	to User	42.7
Z	NB	Keyboard depth	290.1

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.