

ANTENNA INFORMATION

OEM	Auden Technology	
ODM	Compal Electronics Inc.	
Platform model name	P52E	
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)	19.62 mm (w/bumper) 18.19 mm (w/o bumper)
	ISED (1g)	19.62 mm (w/bumper) 18.19 mm (w/o bumper)
	ISED (10g)	5.7 mm

Antenna manufacturer	Company name	Auden Techno Corp
	Address	NO. 19, Lane 772, Heping Rd., Bade Dist, Taoyuan City, Taiwan (R.O.C)
Test location	Company name	SPORTON INTERNATIONAL INC
	Address	NO. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)
Test Personnel	Name(Full name)	Sam wu
	E-mail	Sam.wu@auden.com.tw
	Tel/Mobile	+886-3-3631901 #311
Testing date	2024.10.10	

Antenna Part number	Main	A23297-30 (DC33002Z00L)
	Aux	A23296-30 (DC33002Z01L)
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	0.77	2.91	1.64	0.53	2.61	2.69	2.71	0.61	2.84	3.84
Aux	2.23	1.52	1.48	2.98	2.68	2.58	2.63	1.60	2.58	3.83

Cable Assembly Part Number and Information					
	Cable PN	Cable length(mm)	Cable diameter(mm)	Impedance(ohm)	Connector type
Main	SY137L/50-097	412	1.37	50	20632-001R-37
Aux	SY137L/50-060	342	1.37	50	20632-001R-37

* 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	-2.12	-2.92	-3.43	-3.45	-3.61	-2.98	-3.95	-3.70	-4.15	-4.29
Aux	-1.77	-2.80	-2.52	-3.00	-2.87	-2.66	-3.21	-3.38	-3.35	-3.55

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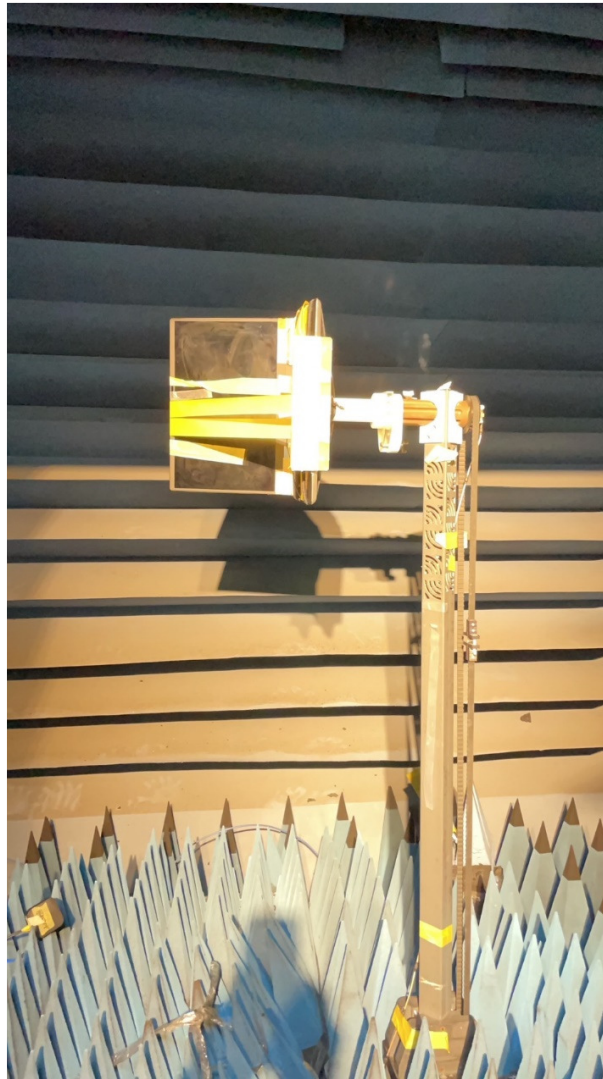
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Annex A. Photographs

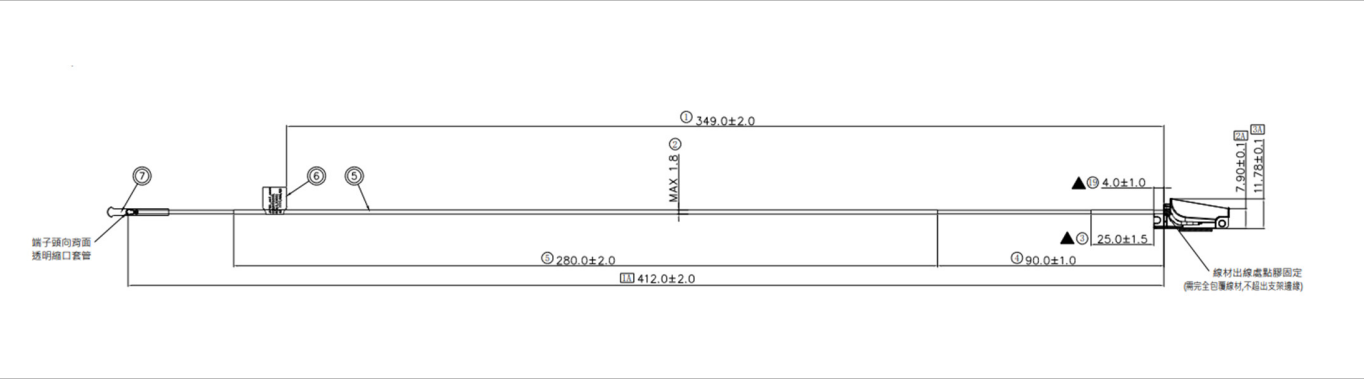
A.1 Setup Photo



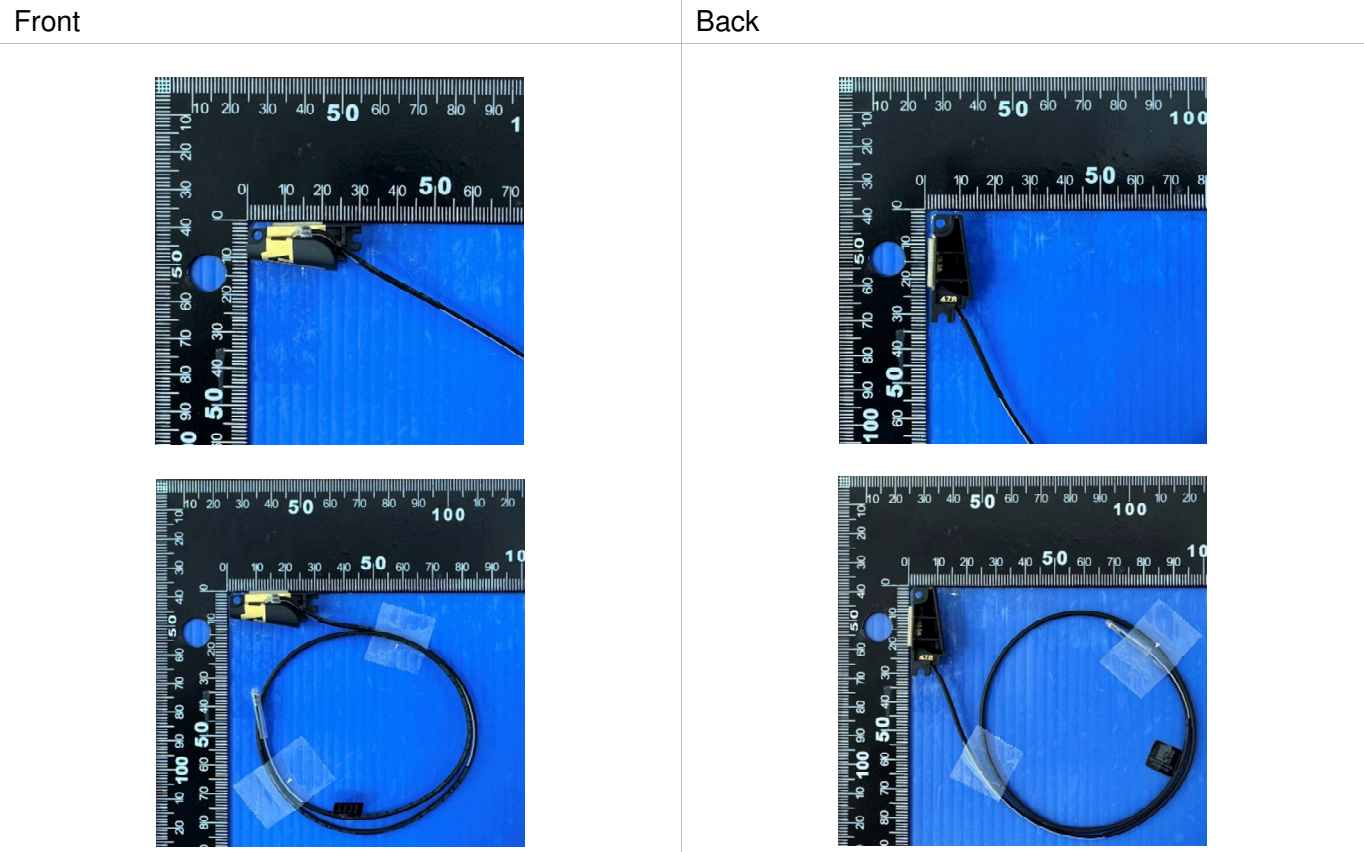
A.2 Test sample

Main Antenna

Antenna Drawing



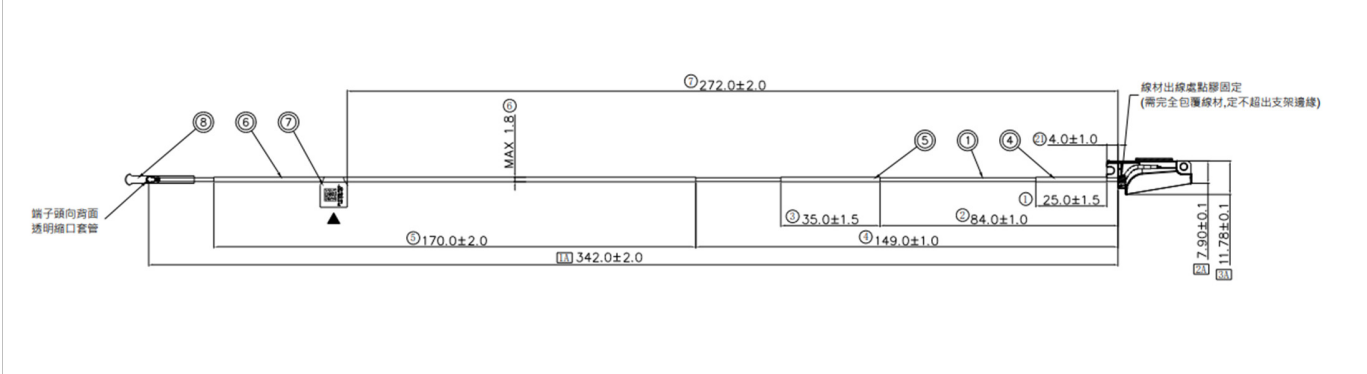
Antenna Photo



Note: antenna photo should include L type ruler

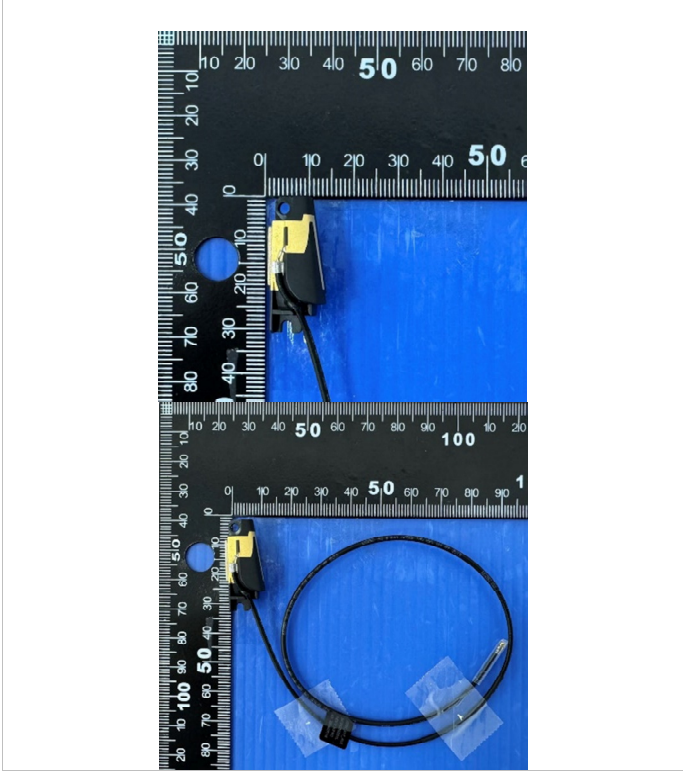
Aux Antenna

Antenna Drawing

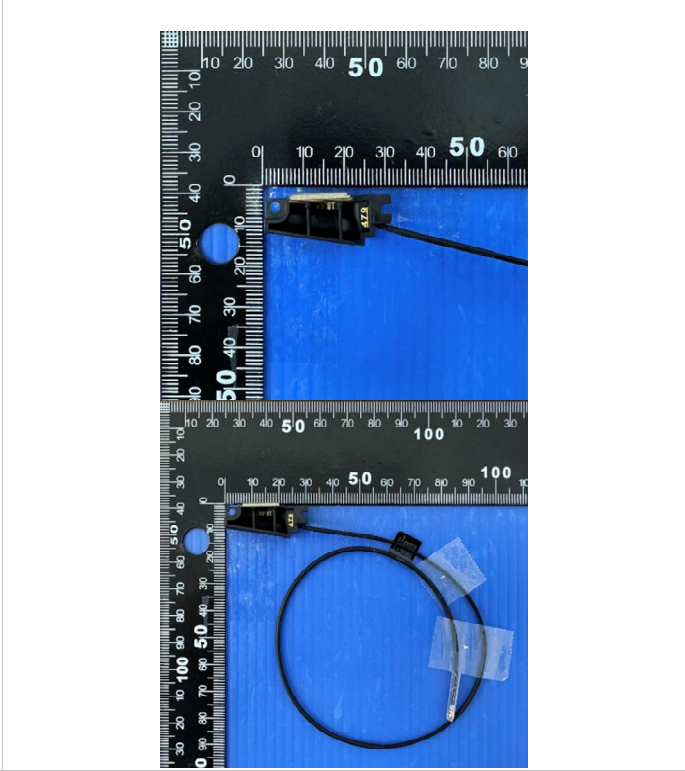


Antenna Photo

Front



Back



Note: antenna photo should include L type ruler

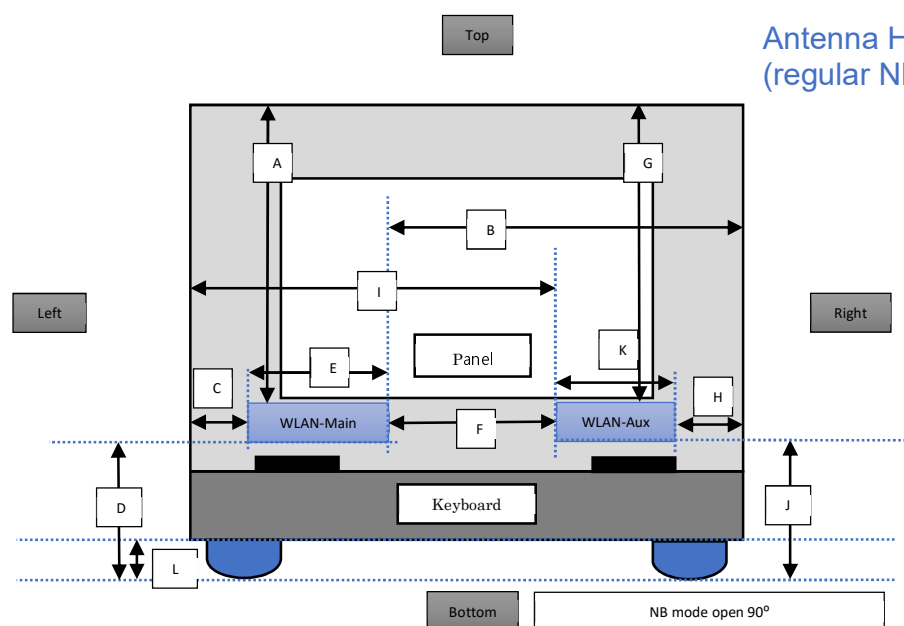
Annex B. Antenna Location

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.

Antenna Host Platform Location Information
(regular NB, Antenna on HINGE)



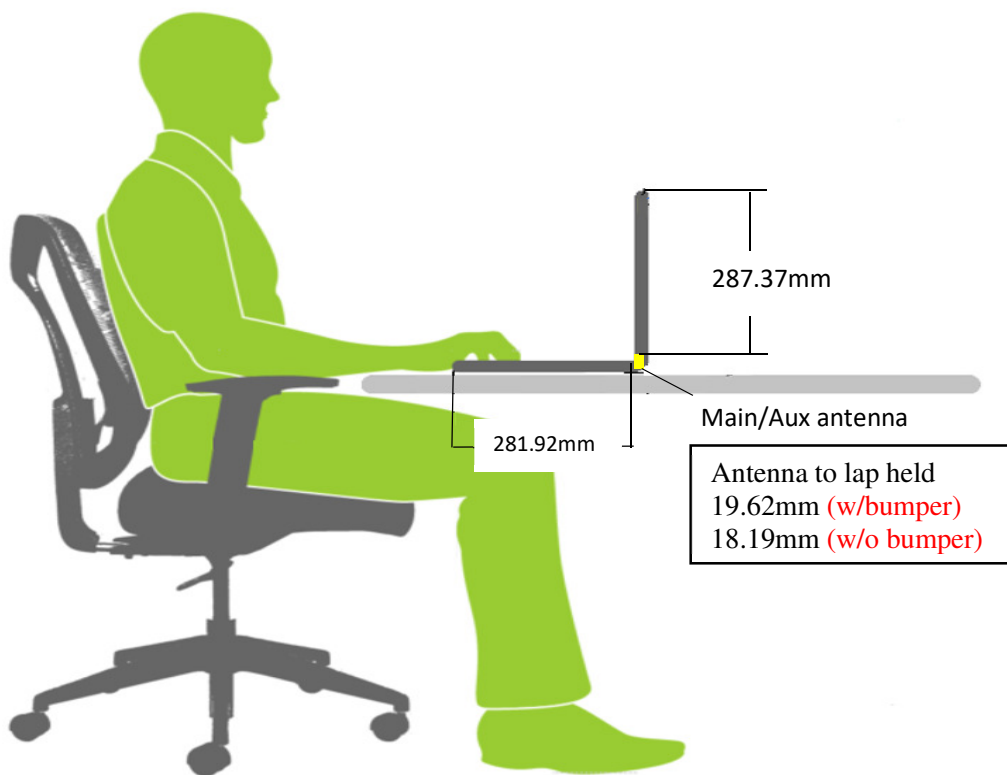
Minimum Separation Distance

Item	Antenna	Position	Distance (mm)
A	WLAN-Main	to Top	287.37
B	WLAN-Main	to Right	392.48
C	WLAN-Main	to Left	5.7
D	WLAN-Main	to Bottom	19.62
E	WLAN-Main	Main Antenna Length	11.78
F	Main-Aux	Main to Aux	375
G	WLAN-Aux	to Top	287.37
H	WLAN-Aux	to Right	5.7
I	WLAN-Aux	to Left	392.48
J	WLAN-Aux	to Bottom	19.62
K	WLAN-Aux	Aux Antenna Length	11.78
L	NB	Bumper thickness	1.43

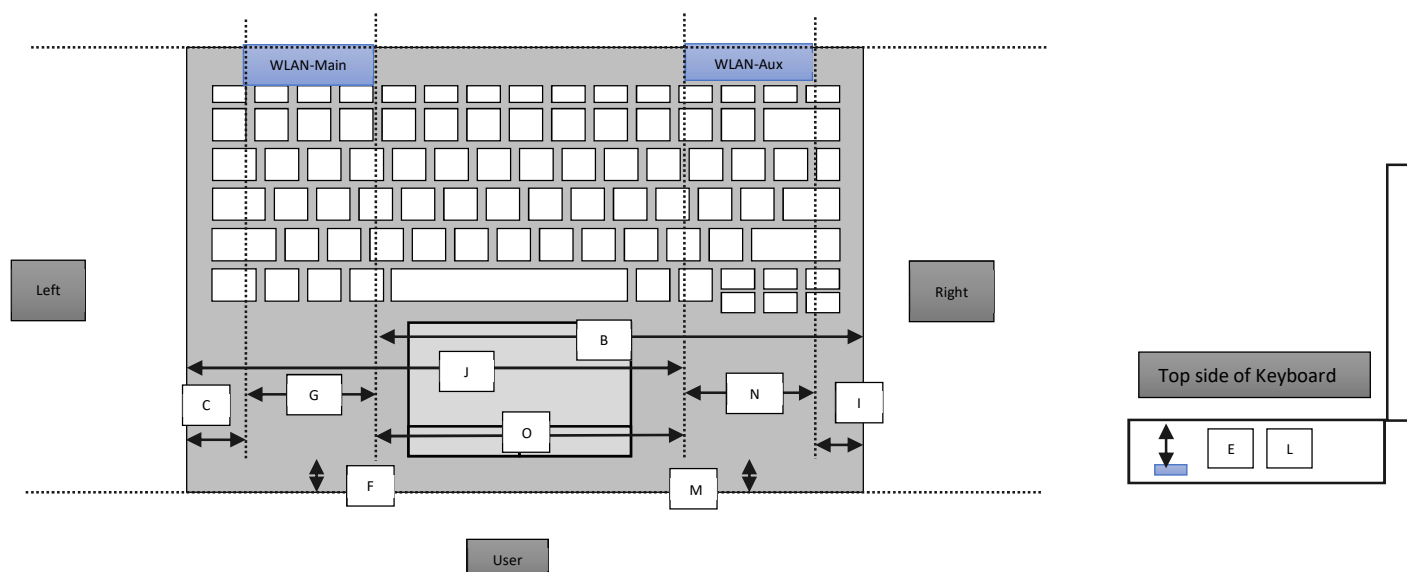
B.2 Antenna dimensional information for SAR evaluation

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



Antennas on the keyboard section



Minimum Separation Distance

Item	Antenna	Position	Distance (mm)	1g or 10g SAR
B	WLAN-Main	to Right	392.48	10g (ISED)
C		to Left	5.7	10g (ISED)
D		to Bottom of laptop	19.62	1g (FCC/ISED)
E		To Top side of Keyboard	XX Antenna on HINGE	10g (ISED)
F		to User (front)	281.92	1g (FCC/ISED)
I	WLAN-Aux	to Right	5.7	10g (ISED)
J		to Left	392.48	10g (ISED)
K		to Bottom of laptop	19.62	1g FCC/ISED)
L		To Top side of Keyboard	XX Antenna on HINGE	10g (ISED)
M		to User (front)	281.92	1g FCC/ISED)
O	Main-Aux	Main to Aux	375	
P	NB	Bumper thickness	1.43	