Regulatory WLAN Antenna Information(Template)

(English Language Required for Intel Regulatory Review / Approval)
(OEM/ODM or antenna vendor is required to complete this document with platform antenna information.
Remove Intel references and make this your own document)

Platform information				
Brand	**ODM**	********Platform model name**	**Platform type (ex: regular NB, convertible PC, AIO...etc)**	**˙SAR minimum separation (mm)**
Samsung	HuaQin	MT6631N/B	Phone	-

*****Please fill in exact product model name and make sure the model name is visible on product cover or any parts for end users recognize for authority inspection.**

Antenna information				Peak gain w/ cable loss (dBi)			
Vendor	**Type**	**Antenna Part number (Main/ Tx1)**	**Antenna Part number (Aux/Tx2)**	**2.4GHz** 2400-2500MHz	**5.2GHz** 5150-5350MHz	**5.5GHz** 5470-5725MHz	**5.8GHz** 5725-5850MHz
WTT	PIFA	S187-438-01C01	S187-438-01C01	-1	-1	-0.8	-1,03
RX	-	-	-	-	-	-	-

Notes (marked with ˙)

˙SAR minimum separation (mm): 15mm

- Regular NB: Minimum antenna-to-body (from antenna bottom to the bottom of the device)
- Tablet / Convertible PC: Minimum antenna-to-edge (5 sides of the device)

Antenna Peak Gain Table:

Frequency (MHz)	Tx1 antenna	
	Horizontal (dBi)	Vertical (dBi)
2400	-1.94	-2.51
2450	-2.05	-2.06
2500	-2.23	-1

Frequency (MHz)	Tx2 antenna	
	Horizontal (dBi)	Vertical (dBi)
5150	-1	-2.72
5650	-0.8	-1.5
5850	-2.6	-1.03

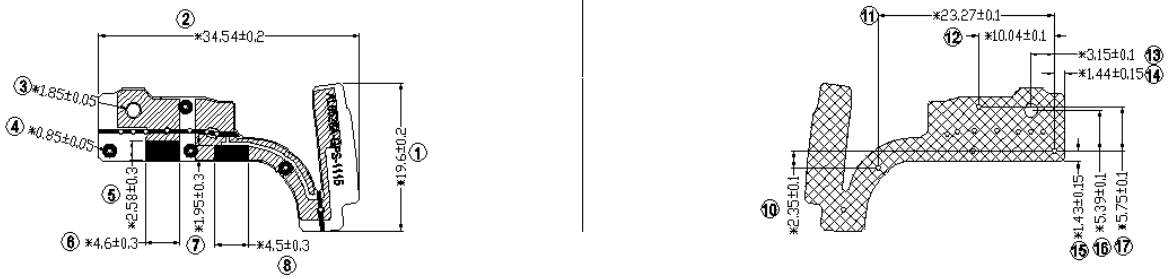
Dimensioned Photos or Drawings of Antennas

Include a dimensioned photo and dimensioned drawing of antenna here.

Antenna Dimensioned Drawing:

8. 字符	白色	
7. PI覆盖膜	黑色	15μm
6. AD胶		12.5μm
5. 压延铜	半对半基材	18μm
4. AD胶		13.5μm
3. PI基材		12.5μm
2. 双面胶	3M467	100μm
1. 离型膜	半冲切包装 整版离型膜	10-20g
VEL	DESCRIPTION	

REVISION	REVISION NOTE	AUTHOR	DATE



注：
1、打★为CPK管控尺寸，打*为重点尺寸，"Trim"为后继需调整尺寸；
2、打*为必测尺寸，未标尺寸参考3D图纸；其它尺寸以实配为准；
3、走线面除焊盘外其它区域需铺阻焊层，金手指使用电金工艺；
镍厚：2-7μm，金厚≥0.06μm；
4、▨ 区域为走线区域，■区域为焊盘区域（镀金），▩区域为附胶区域；
5、FPC表面阻焊层需均匀，不可有起皱镀金不良等现象；
6、使用曝光工艺，铜箔使用有胶基材，背胶指定原厂代理商；
7、满足盐雾测试（48H）高低温测试/恒温恒湿测试/醇性测试等相关可靠性测试，
满足ROHS+REACH+HF环保要求。

Antenna Photo:

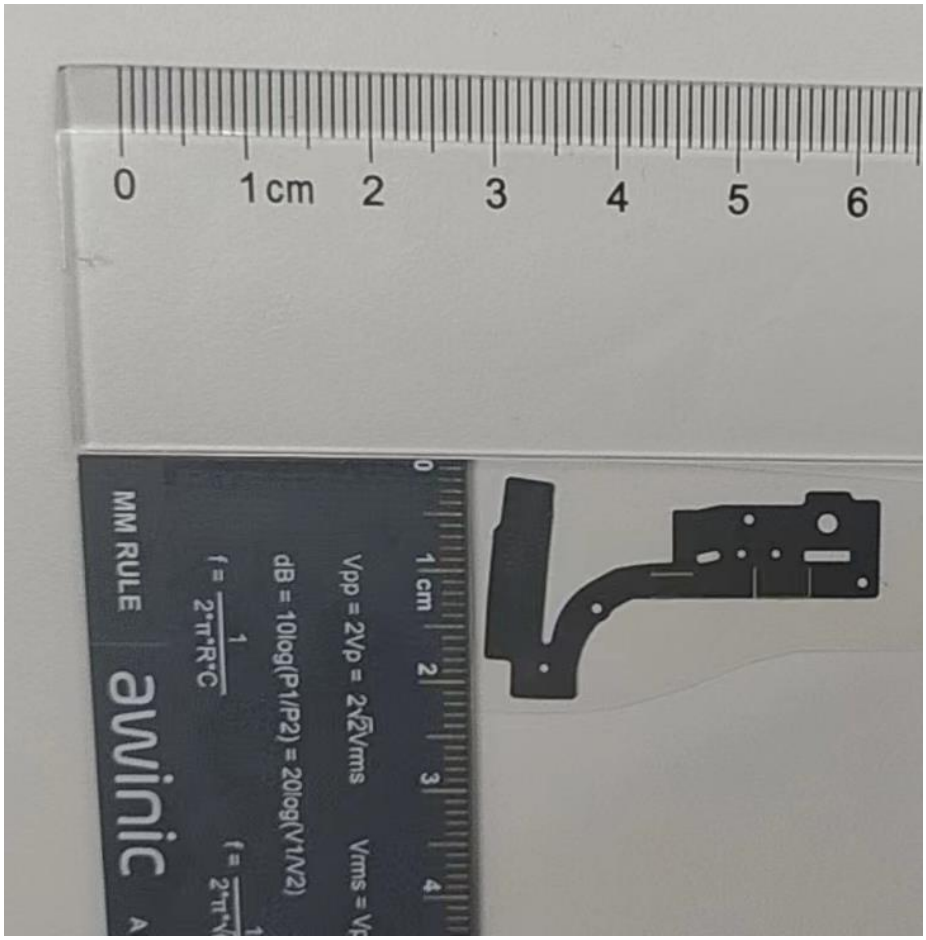
Include front view photo of antenna here.

Antenna Manufacturer: WTT
Antenna Part Number: S187-438-01C01

Include back view photo of antennas here.

Antenna Manufacturer: WTT

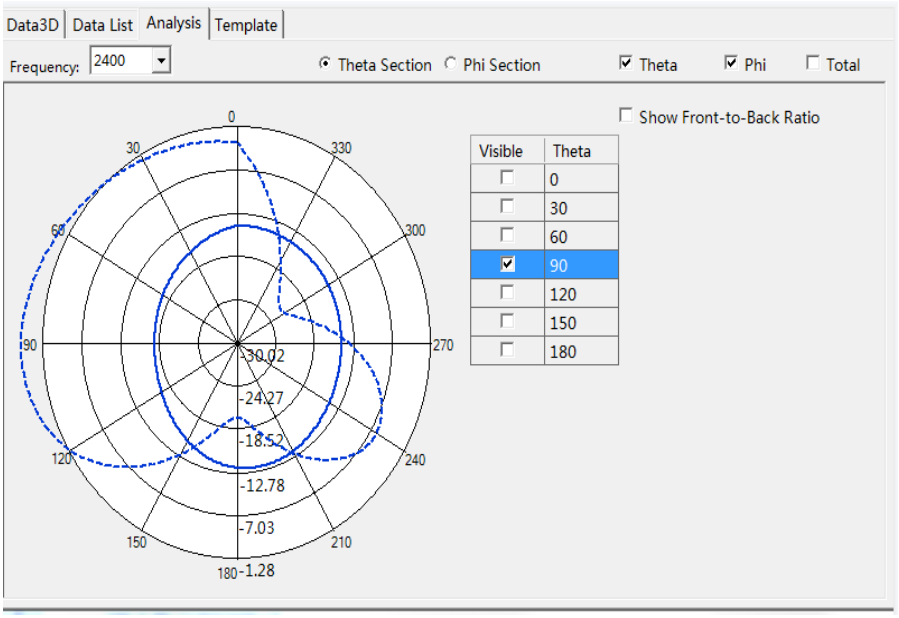
Antenna Part Number: S187-438-01C01



Radiation characteristics of antennae Loaded in Host Platform

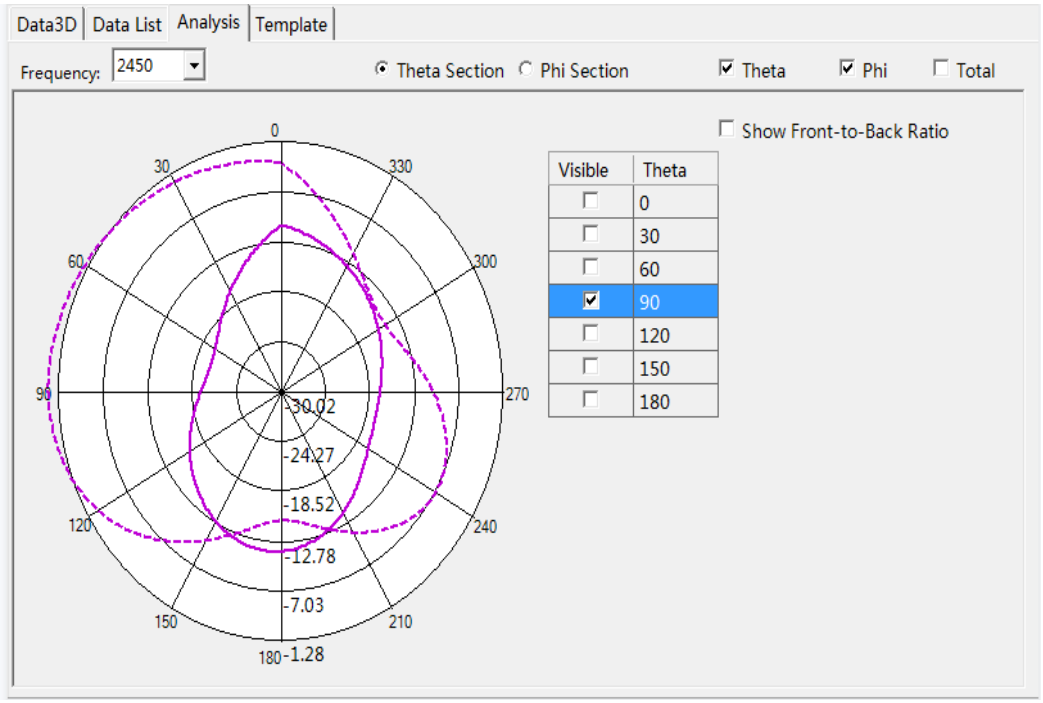
2400-2500MHz radiation characteristic

Tx antenna: 2400 MHz



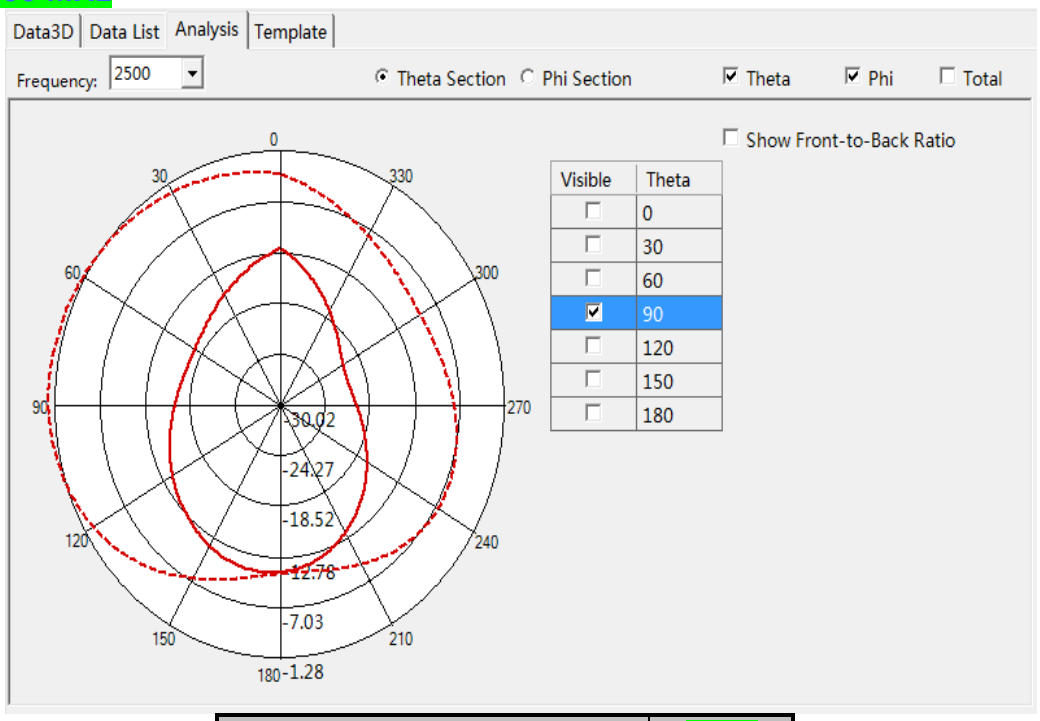
Frequency (Mhz)	2400
Horizontal peak gain (dBi)	-1.94
Vertical peak gain (dBi)	-2.51

Tx1 antenna: 2450 MHz



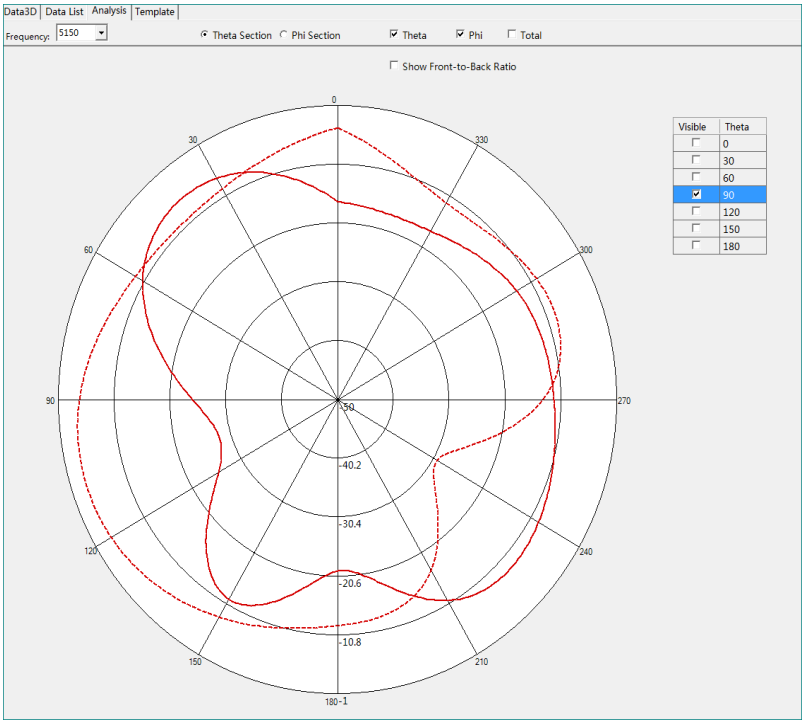
Frequency (Mhz)	2450
Horizontal peak gain (dBi)	-2.05
Vertical peak gain (dBi)	-2.06

Tx1 antenna: 2500 MHz



Frequency (Mhz)	2500
Horizontal peak gain (dBi)	-2.23
Vertical peak gain (dBi)	-1.0

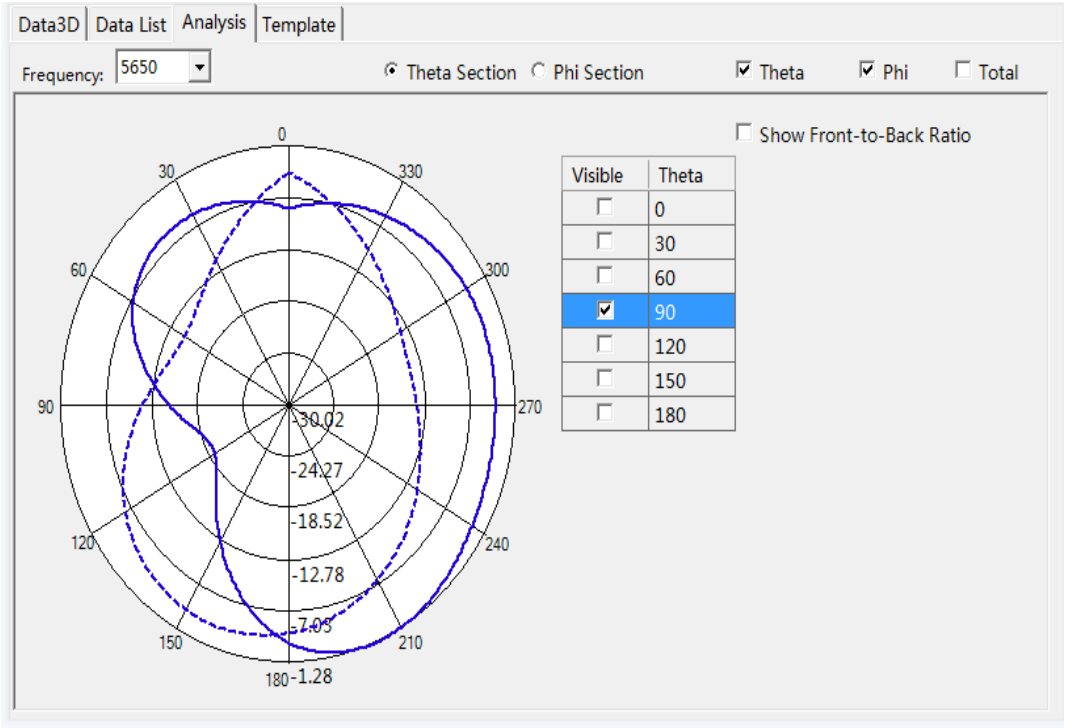
Tx antenna: 5150 MHz



Frequency (Mhz)	5150
Horizontal peak gain (dBi)	-1

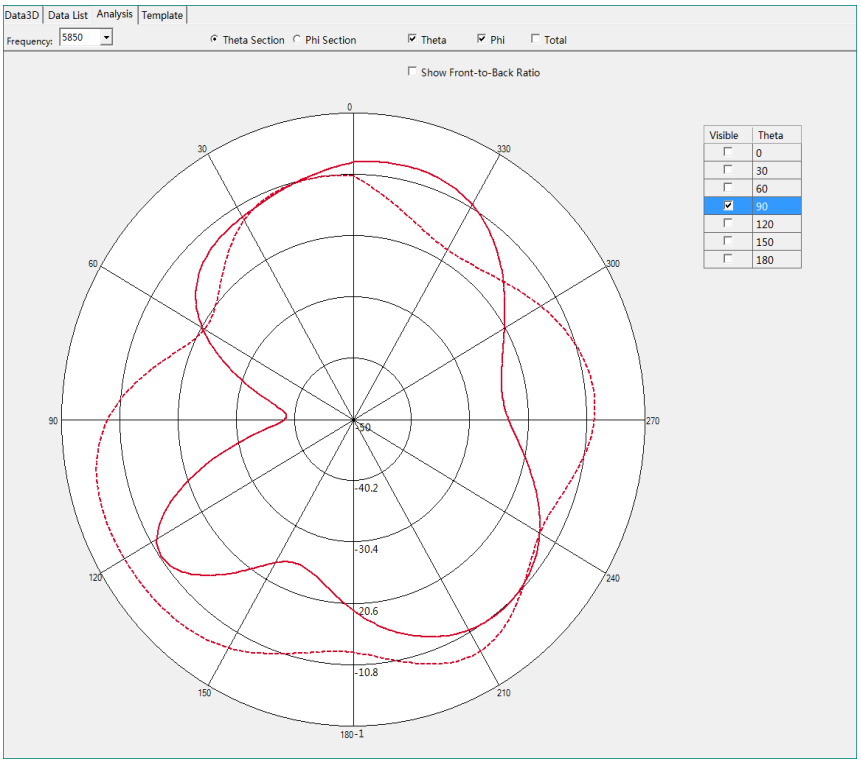
Vertical peak gain (dBi)	-2.72

Tx antenna: 5650 MHz



Frequency (Mhz)	5650
Horizontal peak gain (dBi)	-0.8
Vertical peak gain (dBi)	-1.5

Tx antenna: 5850 MHz



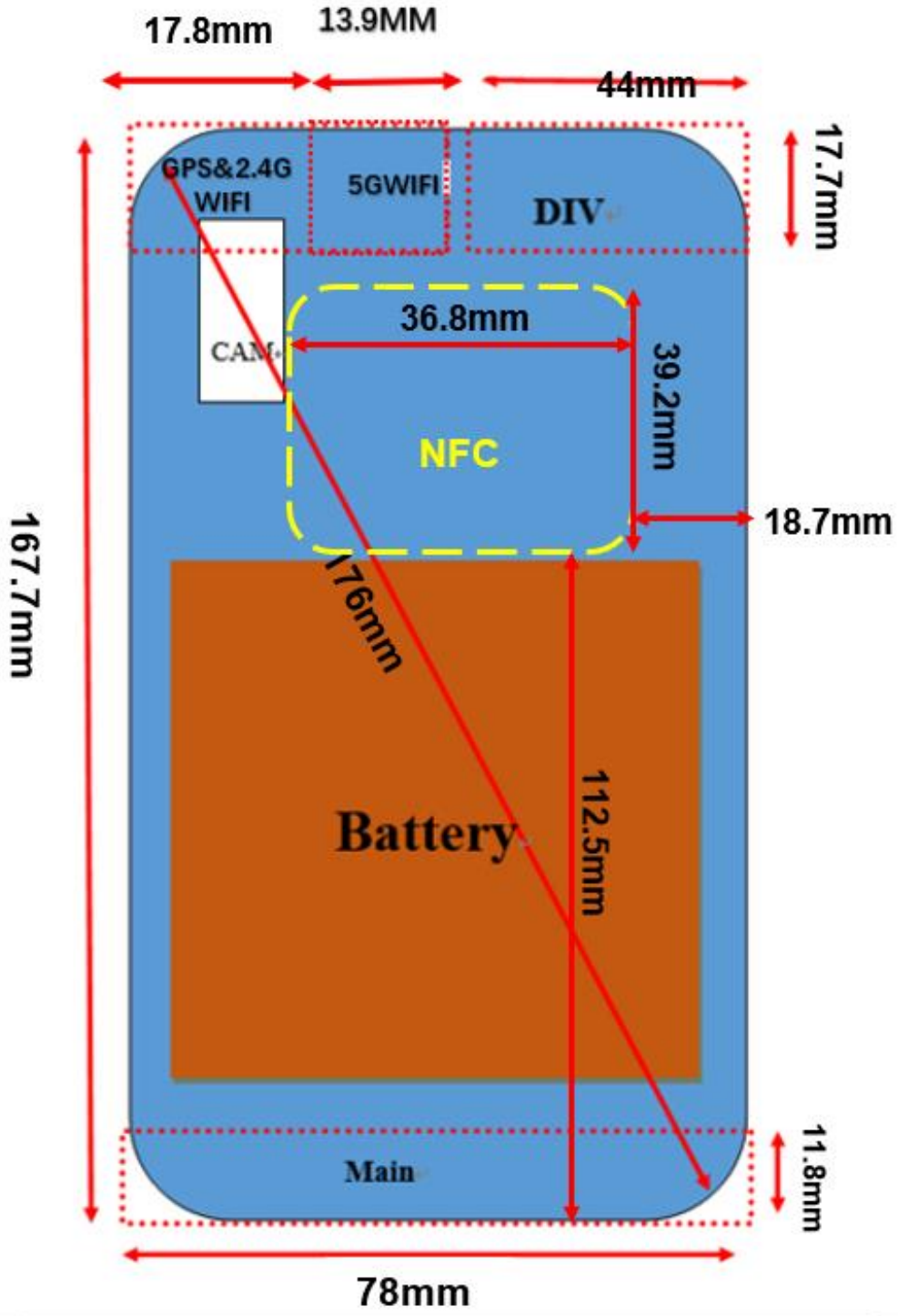
Frequency (Mhz)	5850
Horizontal peak gain (dBi)	-2.6
Vertical peak gain (dBi)	-1.03

NFC antenna gain description：

The device does not support the test of NFC gain, In addition, all measurements were performed radiated and therefore additional antenna gain documentation is not required.

Antenna dimensional information for SAR evaluation

Include a **dimensioned photo(s) or dimensioned drawing(s)** of Tx1, Tx2 and Tx3 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 manufacturer :

Welletronics Communication Technology Co.,

Address of Manufacturer :

Room 110, Building 5, Nanxiang Zhidi Phase 3, No. 1101, Huyi Road, Jiading District, Shanghai (Shanghai Branch)

website :

Http://www.wtt-china.com