

## 04/01 Dragonfly Gain and Pattern Measurement:

### 0. Overview:

The report shows the gain and pattern measurement results of Dragonfly project.  
(Fully integrated system, stylus included)

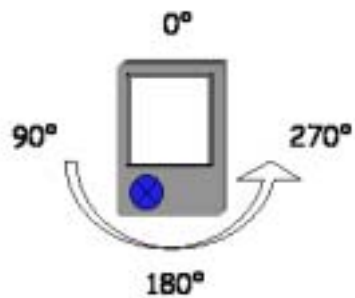
### 1. Antenna Types:

BT : Chip antenna

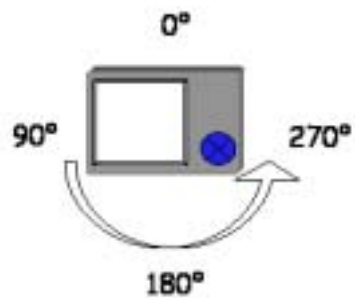
WLAN: Inverted-F antenna

### 2. Coordinate Configure:

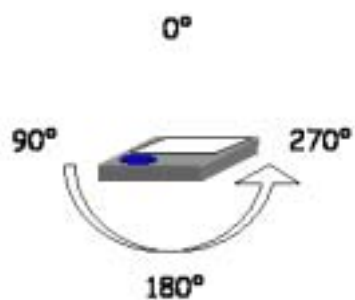
(1) H plane: (Standing)



(2) E1 plane: (Side)



(3) E2 plane: (Top)

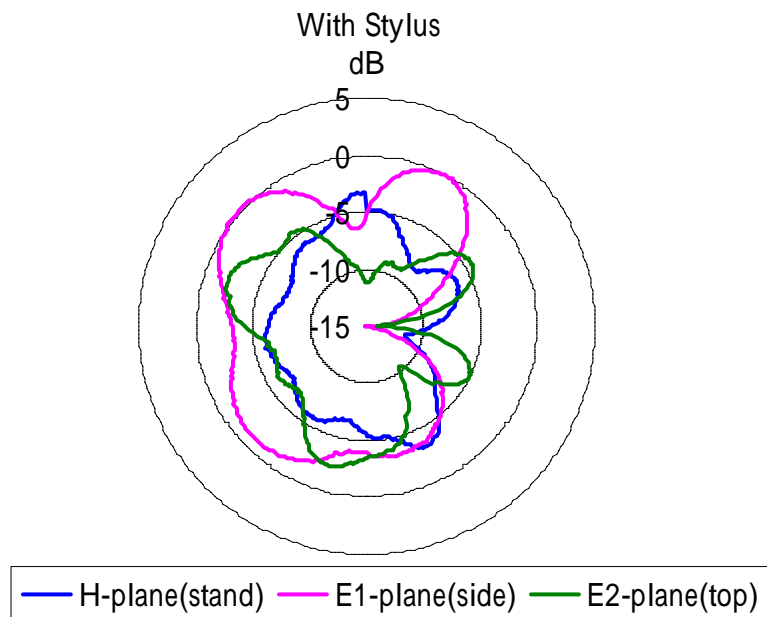
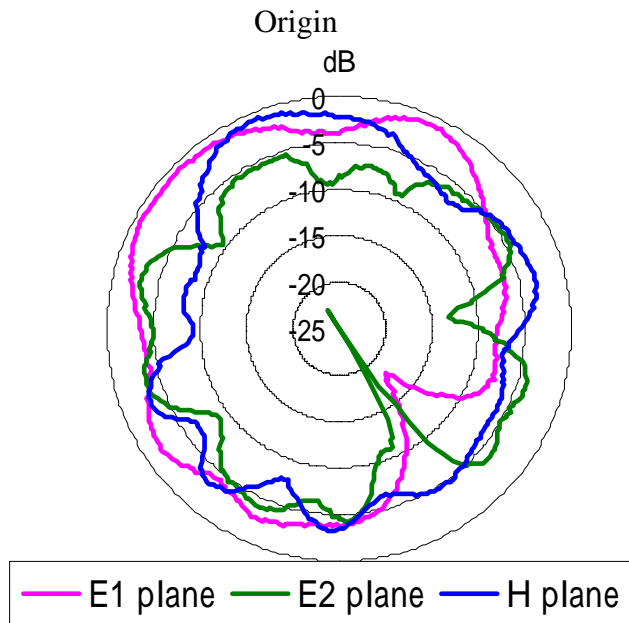


### 3. BT antenna

#### 1. Gain ( 2450 MHz)

Status	H plane		E1 plane		E2 plane	
	Peak	Average	Peak	Average	Peak	Average
Without Stylus	-0.79	-4.55	-0.72	-3.63	-3.04	-5.89
With Stylus	-3.25	-6.25	-0.17	-3.02	-2.16	-5.61

#### 2. Pattern



#### 4. WLAN antenna

##### 1. Gain ( 2450 MHz)

Status	H plane		E1 plane		E2 plane	
	Peak	Average	Peak	Average	Peak	Average
Without Stylus	2.24	-2.9	3.45	-0.26	1.42	-3.56
With Stylus	0.75	-3.55	0.65	-1.51	2.33	-3.32

##### 2. Pattern

