

# WWAN Antenna Information Series

<b>Platform</b>	
Platform owner	
Platform name	
Model name	
ODM	QUANTA
Target Launch Date	
<b>Antenna</b>	
Brand name	QUANTA
Parts Number	QADC-FL1B
<b>Transmitter Module</b>	
WWAN Module	Model: F3570g FCC ID:

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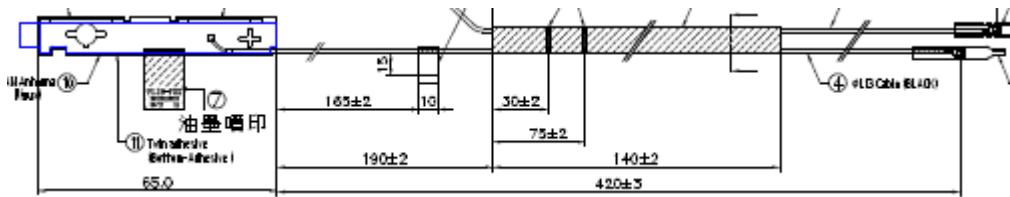
## Section 1. Antenna Assembly Specifications

### Main antenna:

Designator	Manufacture	Antenna type	Cable type and length	Frequency (MHz)		Peak Gain	
						Horizontal	Vertical
(P/N:QA DC-FL1B ) Main WWAN	QUANTA	Inverted F Antenna	GBE 50 ohm Coaxial. length: 420mm diameter : 1.37mm Connect or: IPEX 20531-11 1R-37	(FCC Part 22) GSM/GPRS, UMTS/HSDPA	824.70	-1.5 dBi	-3.6 dBi
					836.52	-0.8 dBi	-3.2 dBi
					848.31	-0.2 dBi	-3.0 dBi
				(FCC Part 24) GSM/GPRS, UMTS/HSDPA	1850.25	-3.4 dBi	-1.6 dBi
					1880.00	-3.4 dBi	-1.2 dBi
					1908.00	-3.7 dBi	-0.9 dBi
				(EU/ANZ) GSM/GPRS	880.20	0.6 dBi	-3.1 dBi
					897.60	0.2 dBi	-3.8 dBi
					914.80	-0.7 dBi	-4.1 dBi
					1710.20	-1.9 dBi	-2.9 dBi
					1748.00	-1.7 dBi	-2.6 dBi
				(EU/ANZ) UMTS/HSDPA	1784.80	-2.2 dBi	-2.3 dBi
					1922.40	-4.3 dBi	-0.9 dBi
					1950.00	-4.8 dBi	-1.0 dBi
					1977.60	-6.2 dBi	-1.2 dBi

## Section 2. Dimensioned Photos or Drawings of Antennas

### Main Antenna Dimensioned Drawing :



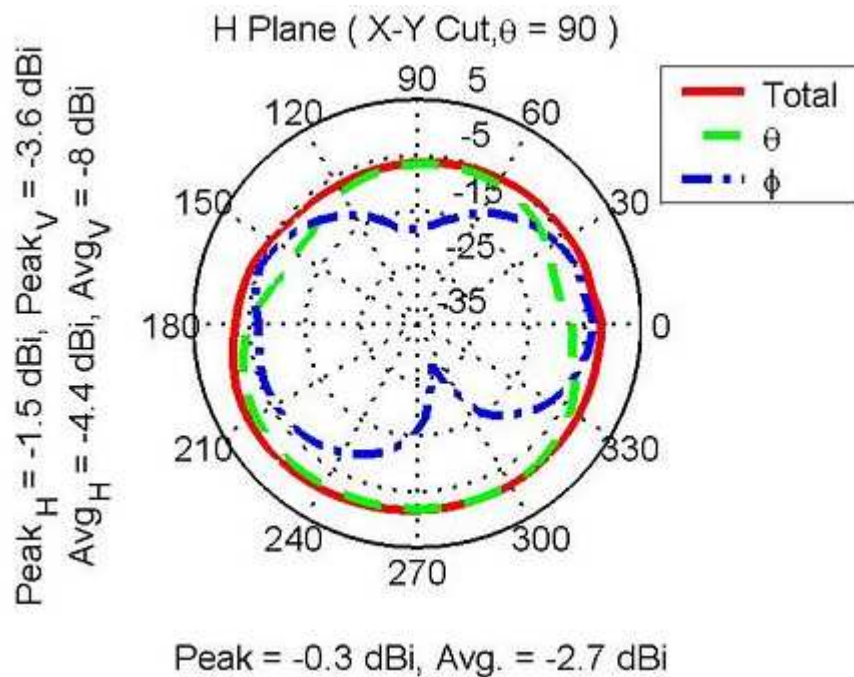
### Main Antenna Photo :



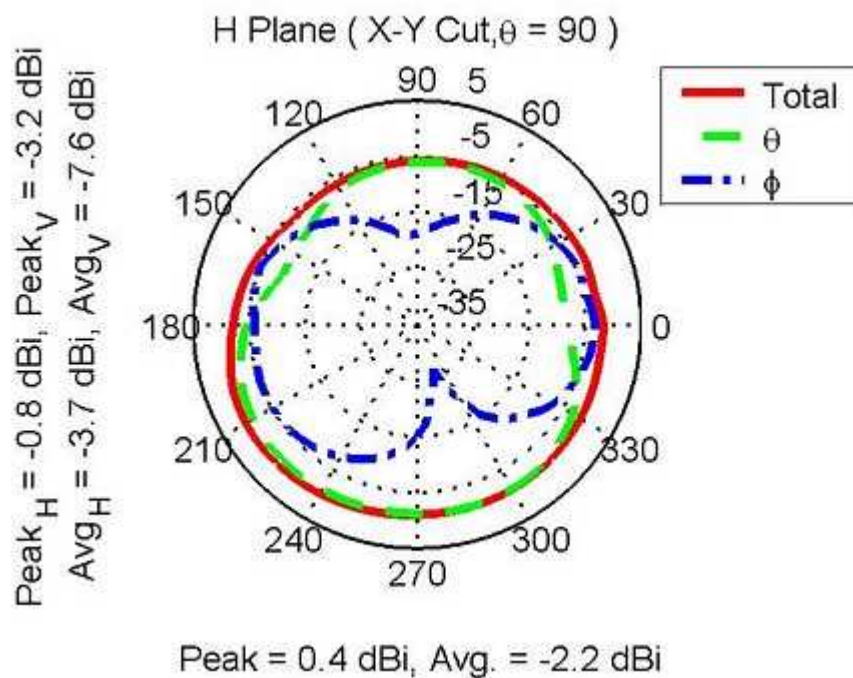
## Section 3. Radiation characteristics of antenna

### 3.1 Radiation characteristic in 824MHz ~ 849MHz (FCC Part 22 Cellular)

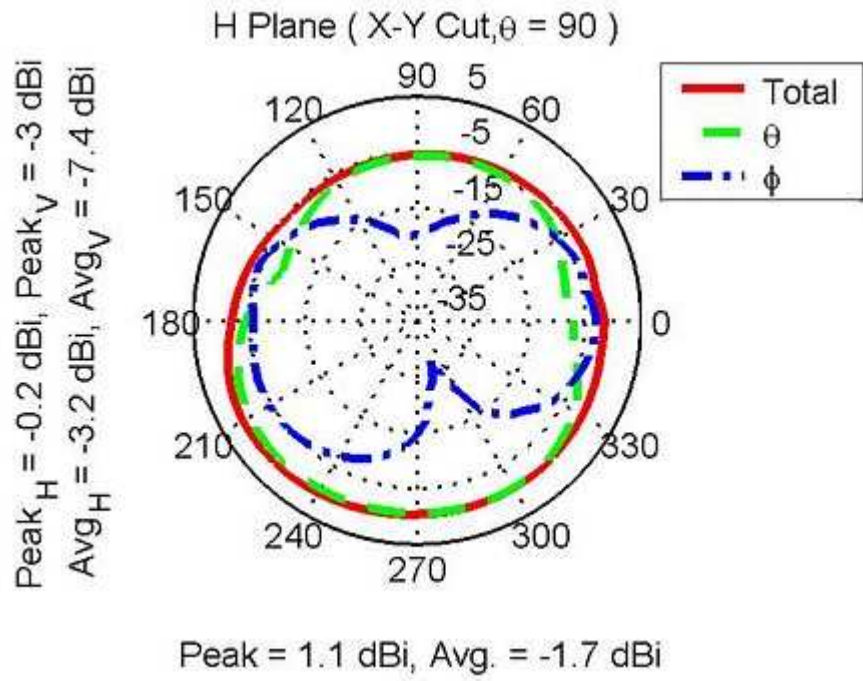
Main antenna: 824.70 MHz



Main antenna: 836.52 MHz

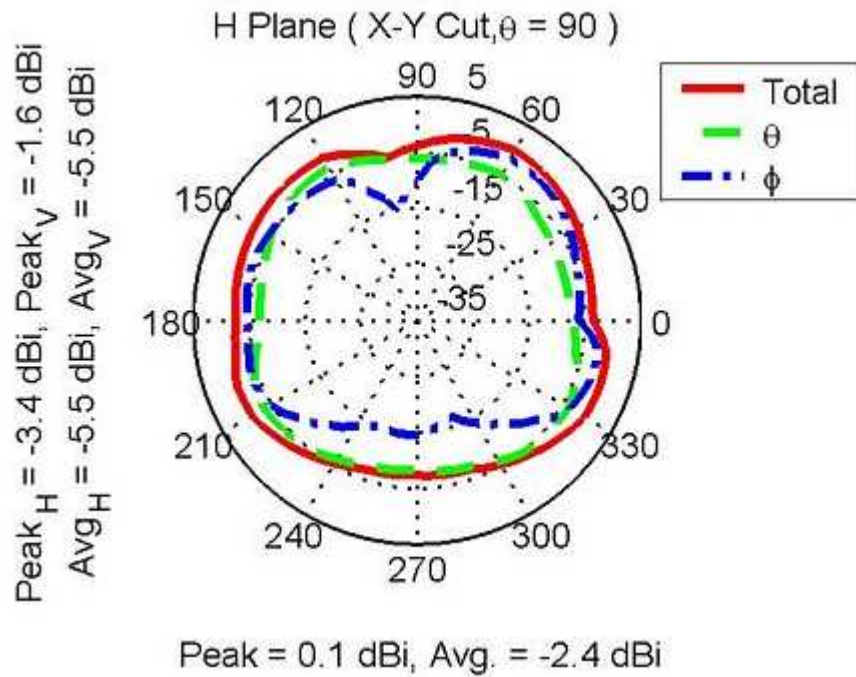


Main antenna: 848.31 MHz

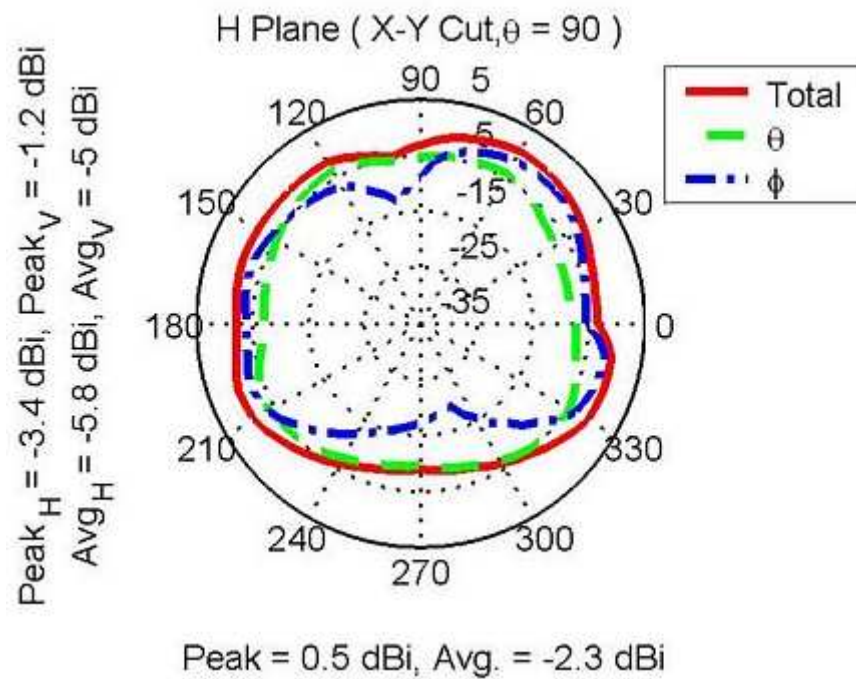


### 3.2 Radiation characteristic in 1850MHz ~ 1910MHz (FCC Part 24 PCS)

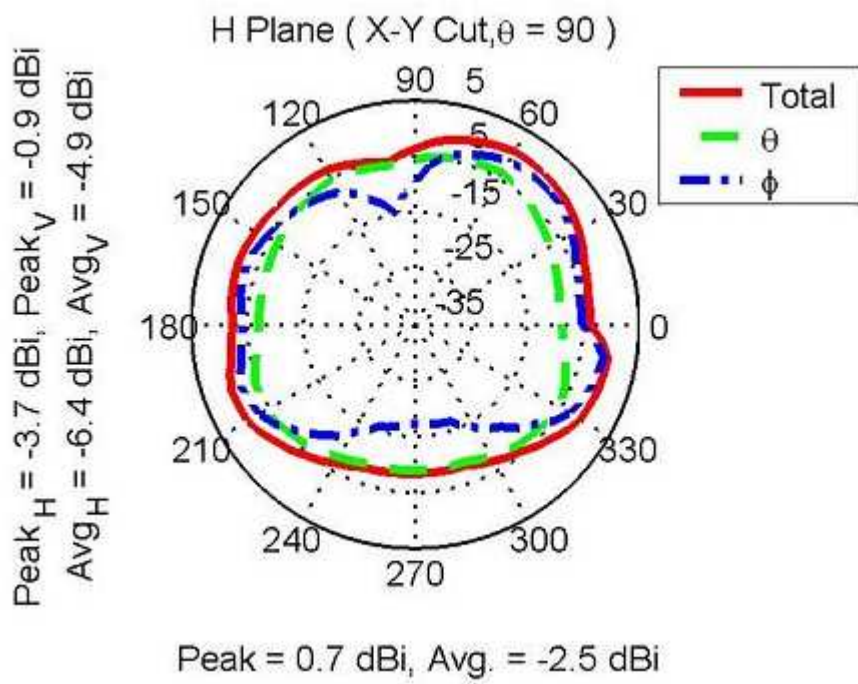
#### Main antenna: 1850.25 MHz



#### Main antenna: 1880 MHz

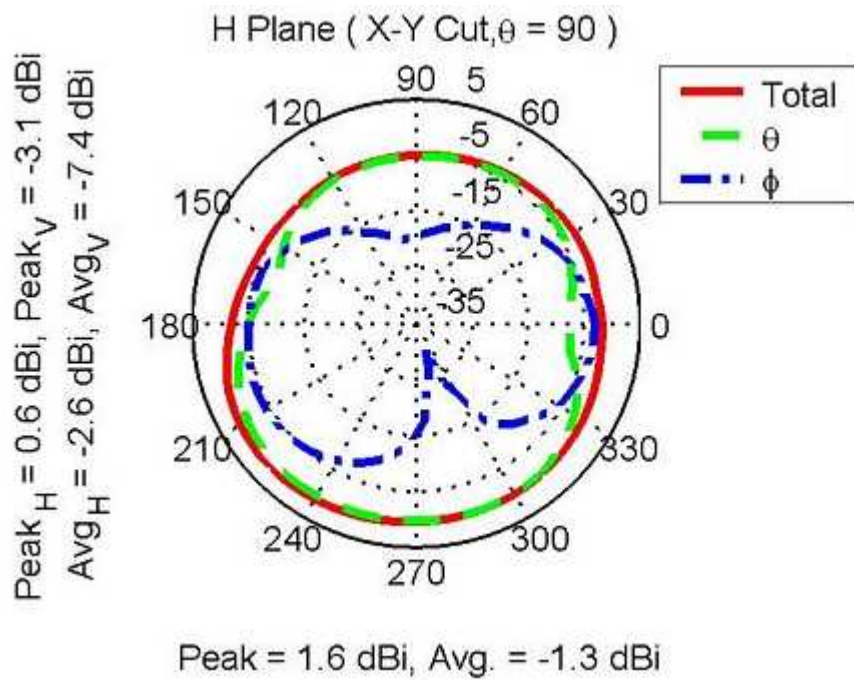


Main antenna: 1908 MHz

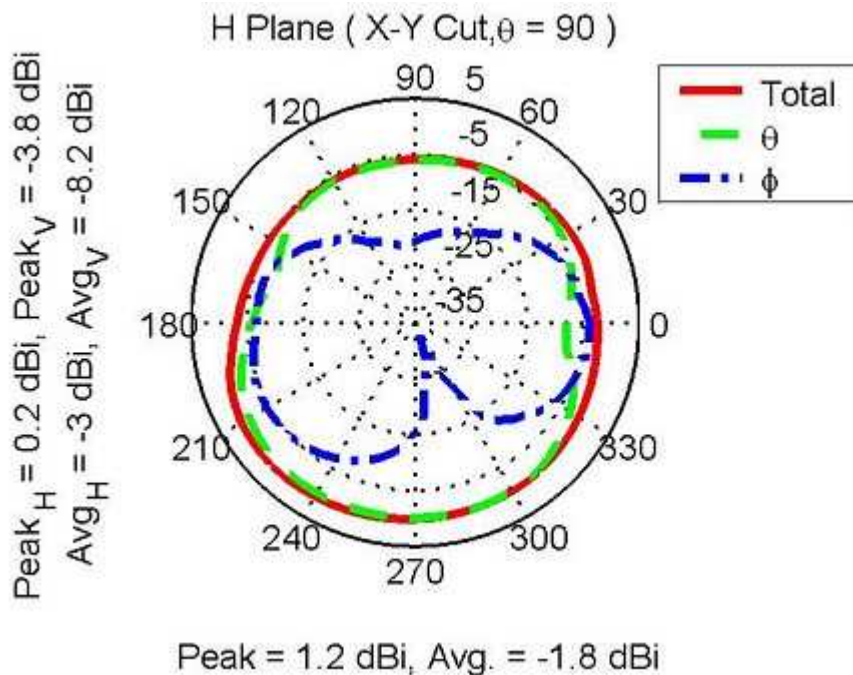


### 3.3 Radiation characteristic in 880MHz ~ 915MHz (EU / AUS / NZ: GSM/GPRS)

#### Main antenna: 880.2 MHz

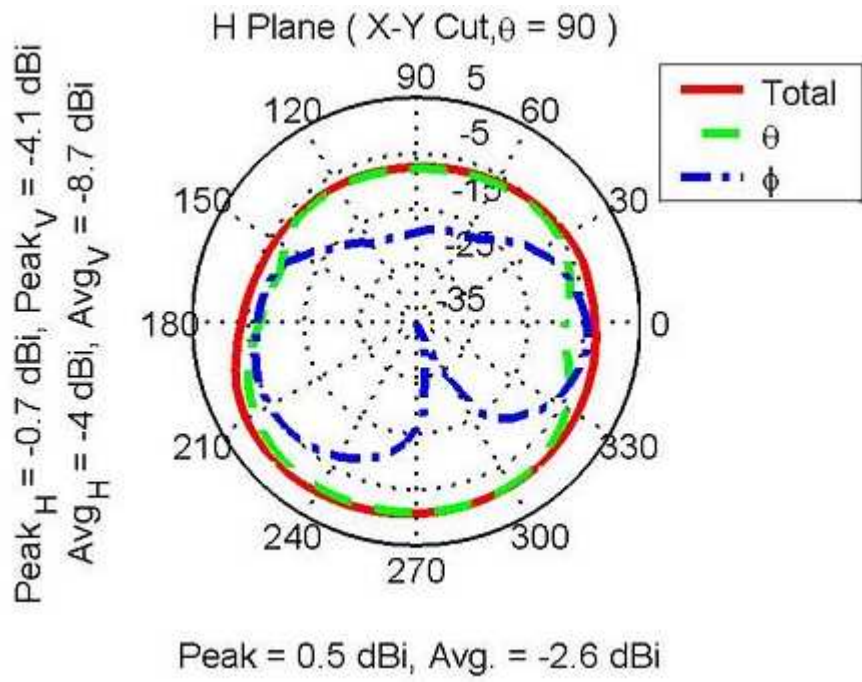


#### Main antenna: 897.6 MHz



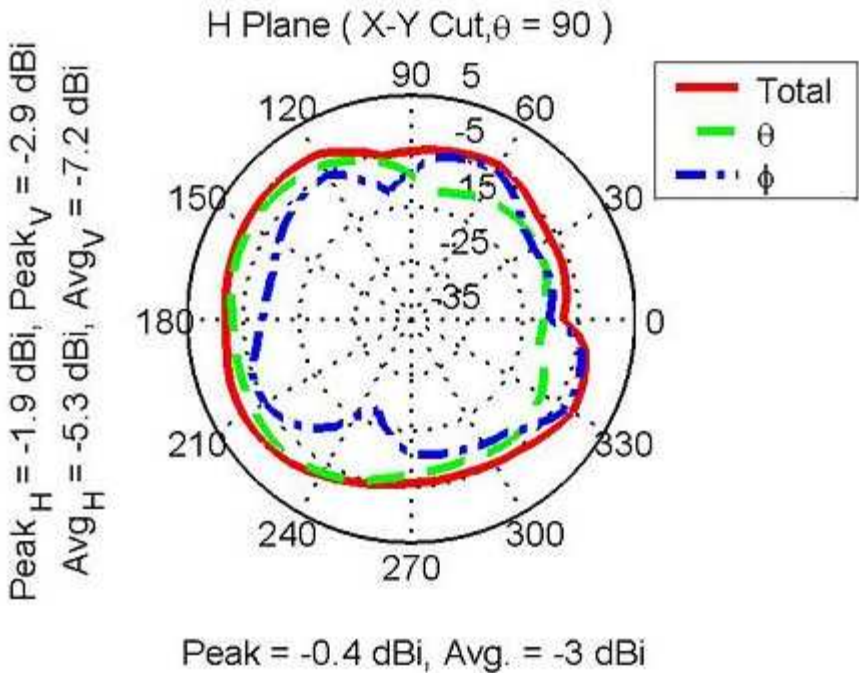


Main antenna: 914.8 MHz

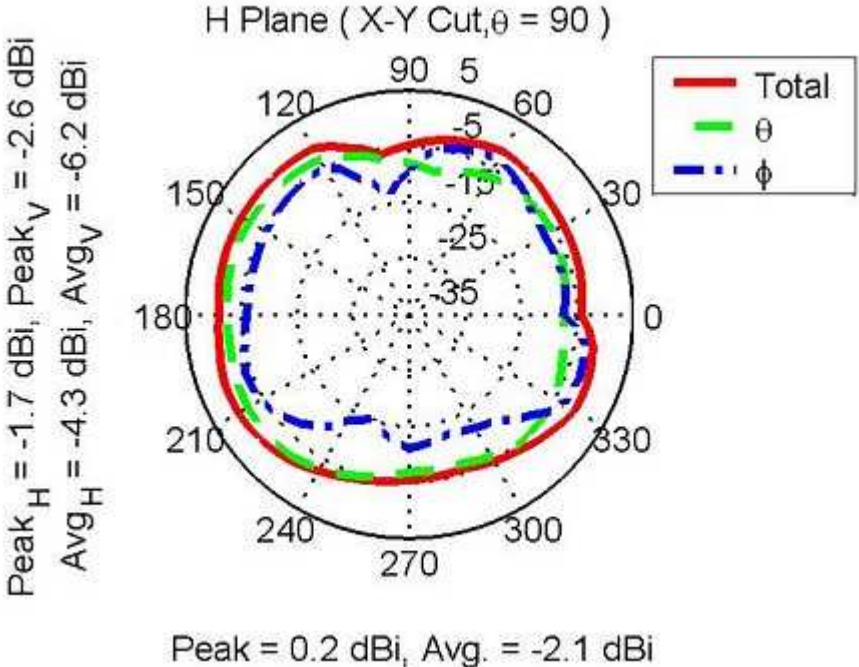


**3.4 Radiation characteristic in 1710MHz ~ 1785MHz (EU / AUS / NZ: GSM/GPRS)**

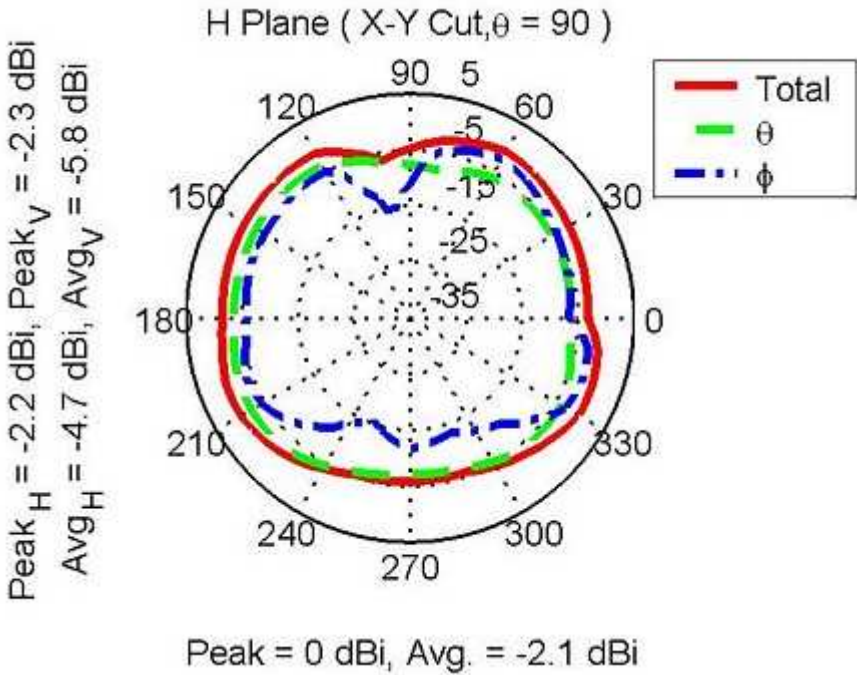
**Main antenna: 1710.2 MHz**



**Main antenna: 1748 MHz**

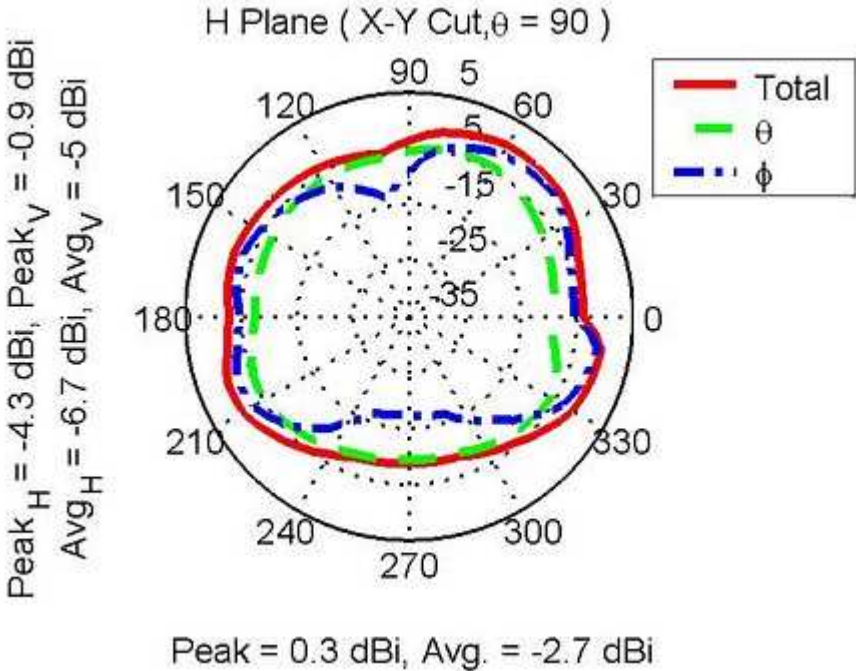


Main antenna: 1784.8 MHz

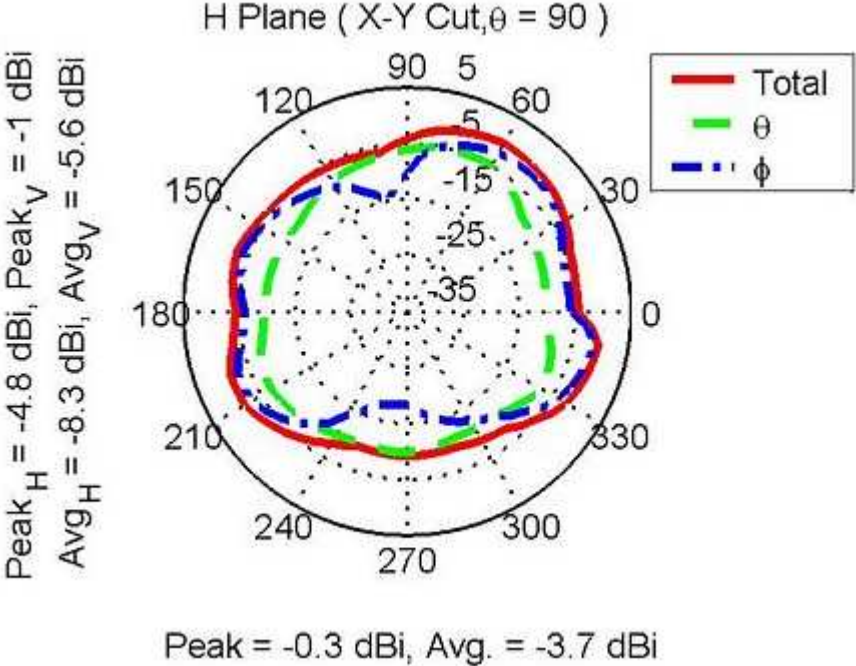


**3.5 Radiation characteristic in 1922MHz ~ 1978MHz (EU / AUS / NZ: UMTS/HSDPA)**

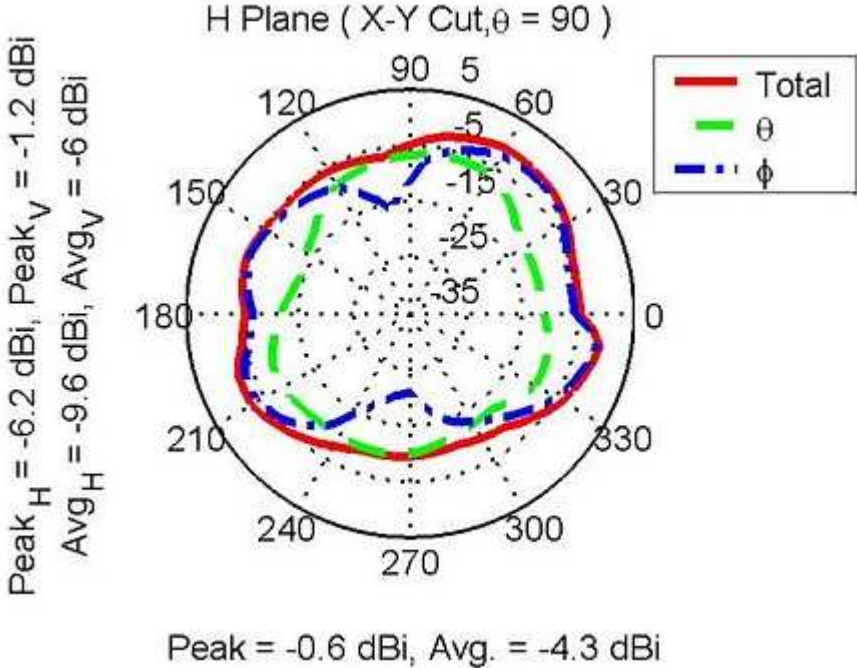
**Main antenna: 1922.4 MHz**



**Main antenna: 1950 MHz**



Main antenna: 1977.6 MHz

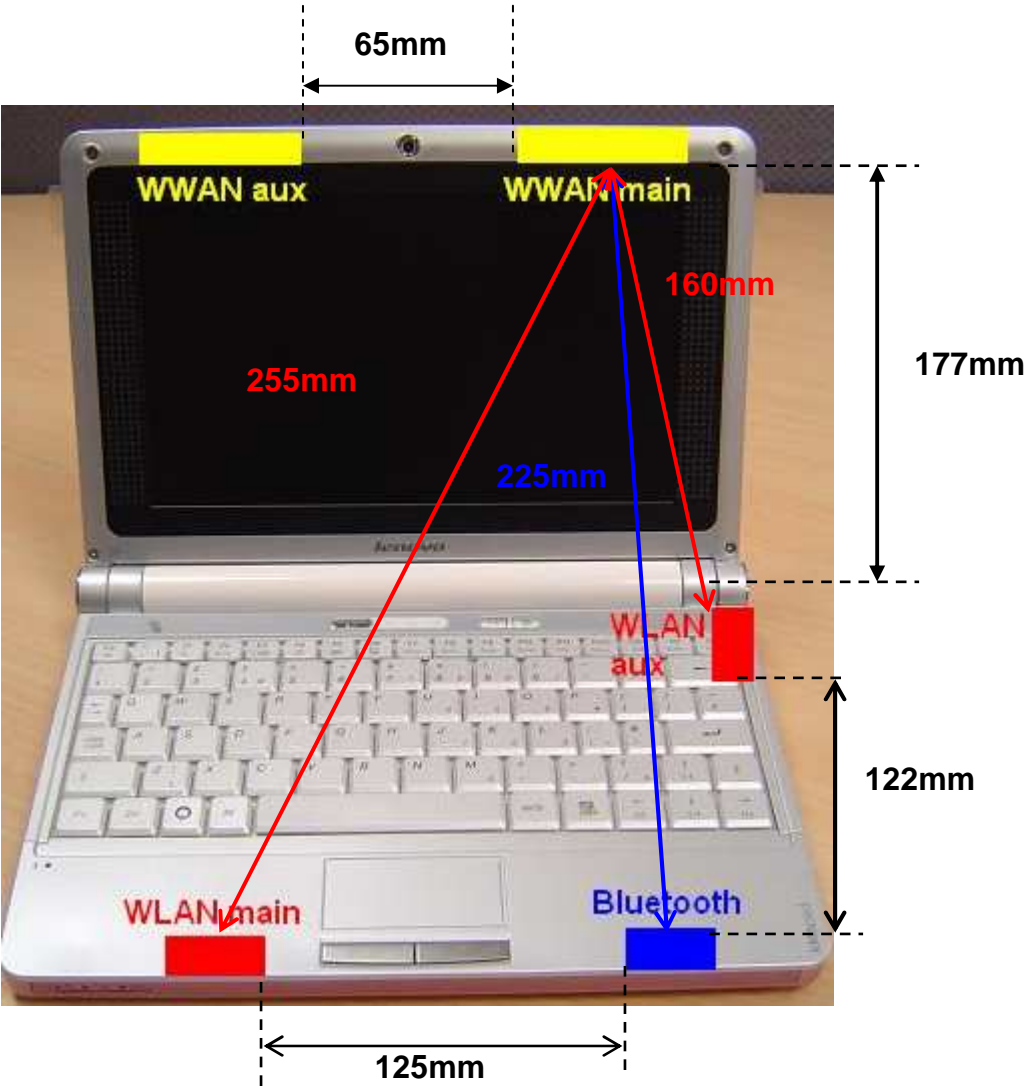


## Section 4. Host Platform Information

The auxiliary antennas are used for receiving only, these are omitted from this exhibit.



Section 5. Antenna Host Platform Location Information



## **Section 6. Antenna dimensional information for SAR evaluation**

The sufficient antenna separation distance from human's body with 177mm. See Section 5.

## **Section 7. Co-Location Antenna Separation**

WWAN - Bluetooth:

The antenna separation distance between the WWAN main(Tx) and Bluetooth antennas is 225 mm,.

WWAN - WLAN:

The antenna separation distance between the WWAN main(Tx) and WLAN main antennas is 255 mm,.

The antenna separation distance between the WWAN main(Tx) and WLAN aux antennas is 160 mm,.