



Ameba printed antenna measurement report

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Ameba printed antenna measurement report

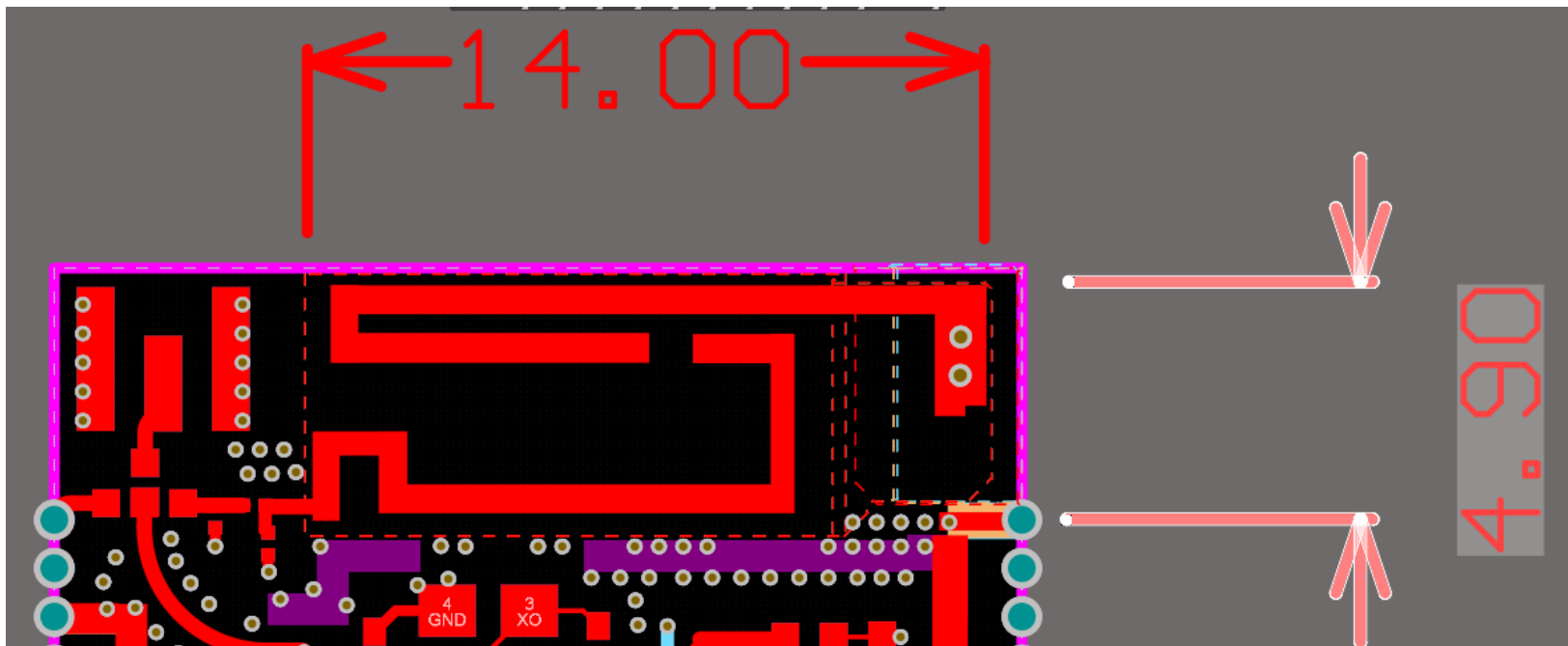
- **Regulatory information**
 - Manufacture : REALTEK
 - Part Number : Ameba-AM0001
 - Type : Printed
 - Peak gain : +2.0dBi





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- Antenna structure



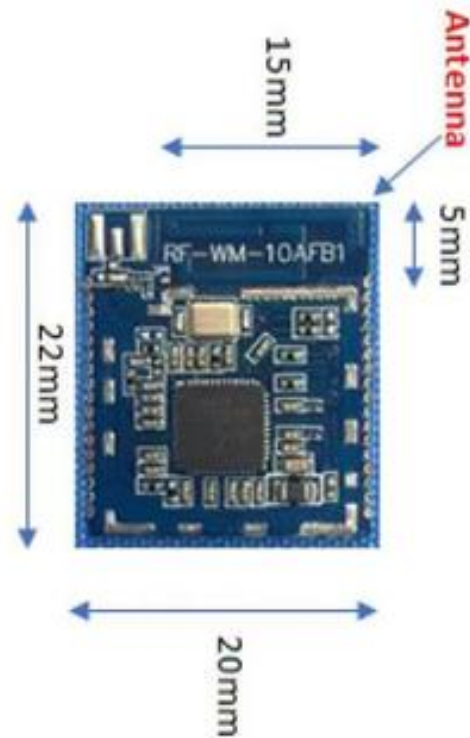
Unit: mm





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- Photo



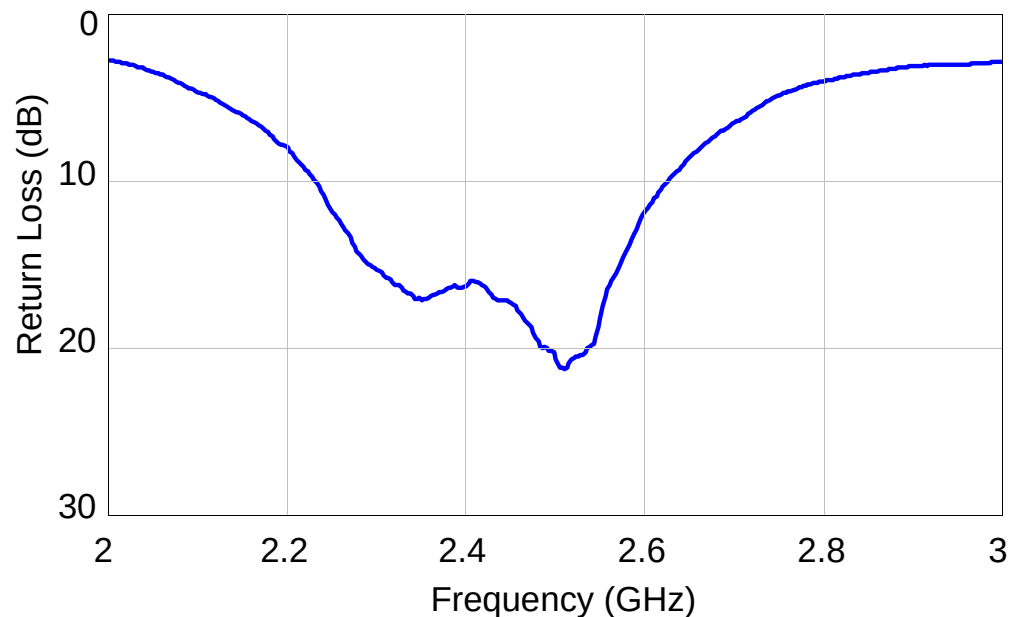
Top view



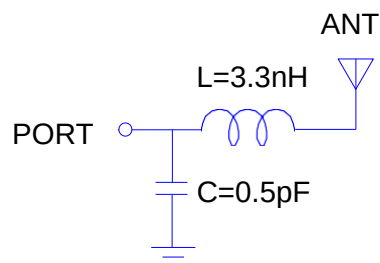


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- Return Loss



- Matching circuit

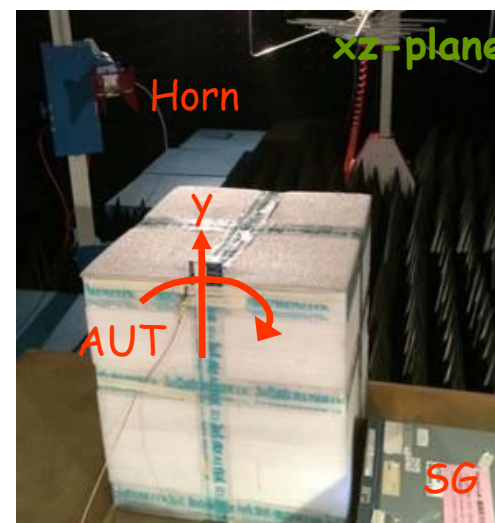
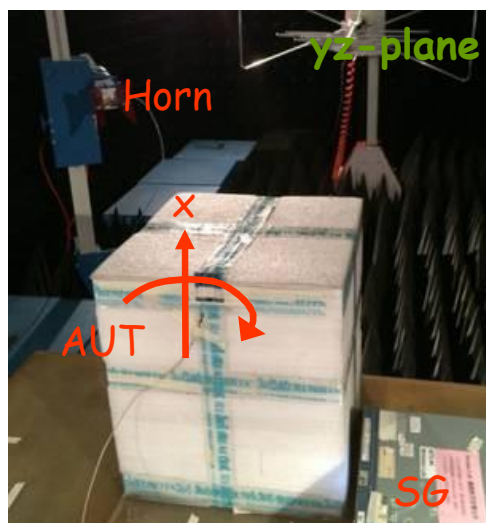
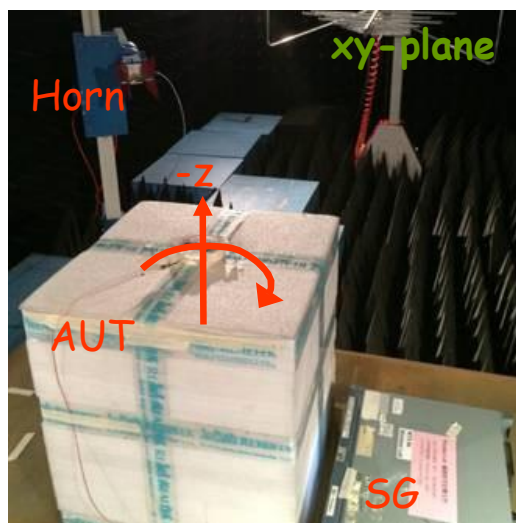
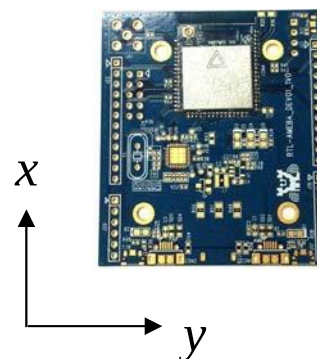




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- **Radiation Patterns**

- Freq. : 2400MHz, 2450MHz, 2500MHz
- Test plane : xy-plane, xz-plane, yz-plane
- Input power : SG 0dBm
- Place: RTK 4F chamber
- Horn h: horizontal polarization
- Horn v: vertical polarization



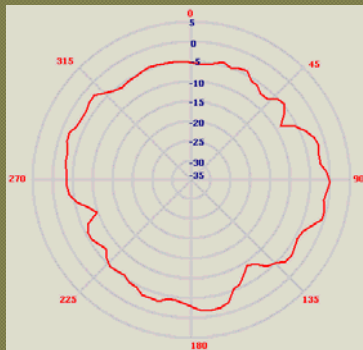


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- Radiation Patterns — 2400 MHz

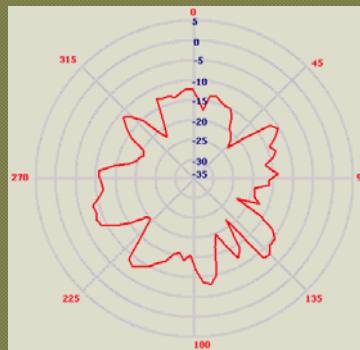
horizontal

xy-plane



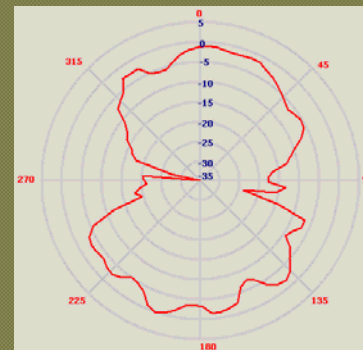
Pol.	Peak	avg.
h	-0.1	-4.1

xz-plane



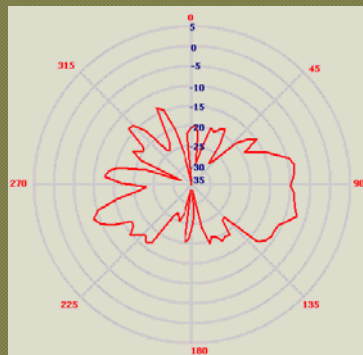
Pol.	peak	avg.
h	-8.0	-13.0

yz-plane

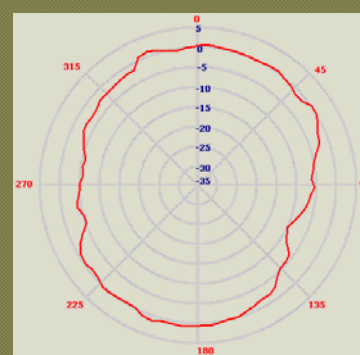


Pol.	peak	avg.
h	-0.2	-4.9

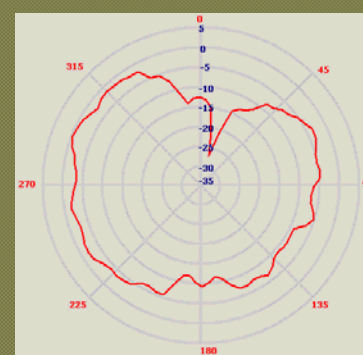
vertical



Pol.	peak	avg.
v	-7.5	-14.8



Pol.	peak	avg.
v	+1.0	-1.8



Pol.	peak	avg.
v	-0.6	-5.0

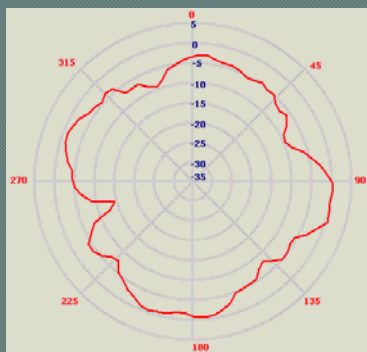


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- Radiation Patterns — 2450 MHz

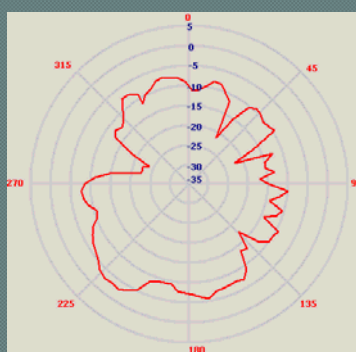
horizontal

xy-plane



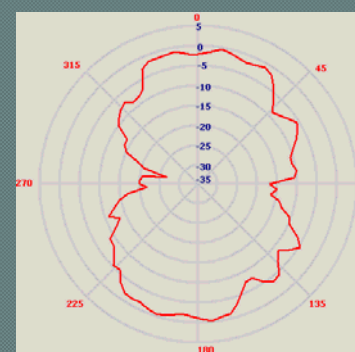
Pol.	Peak	avg.
h	+0.3	-3.9

xz-plane



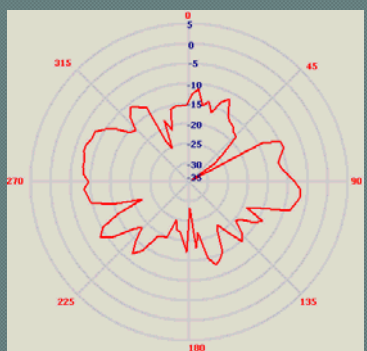
Pol.	peak	avg.
h	-3.3	-9.1

yz-plane

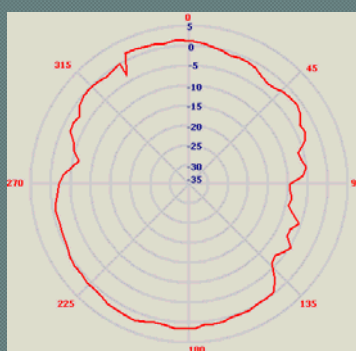


Pol.	peak	avg.
h	-0.5	-5.0

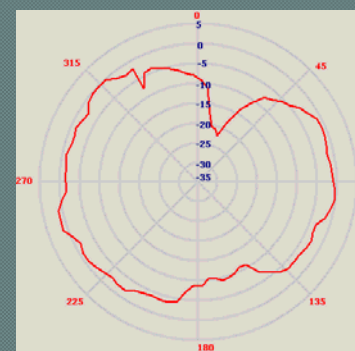
vertical



Pol.	peak	avg.
v	-6.9	-12.7



Pol.	peak	avg.
v	+2.0	-1.0



Pol.	peak	avg.
v	+0.9	-3.2

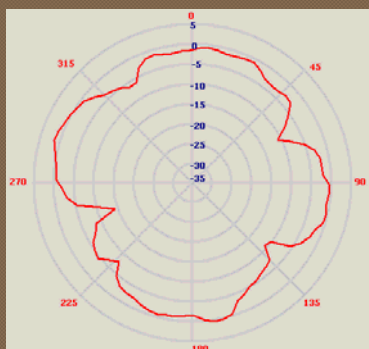


Ameba printed antenna measurement report

- Radiation Patterns — 2500 MHz

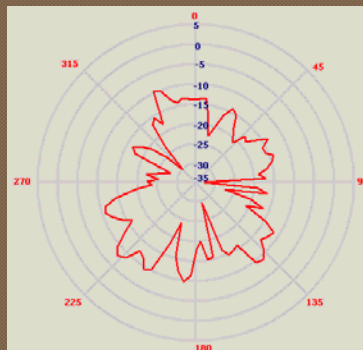
xy-plane

horizontal



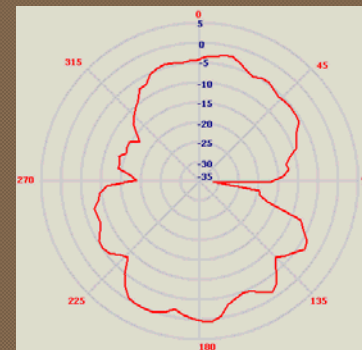
Pol.	Peak	avg.
h	+1.1	-2.6

xz-plane



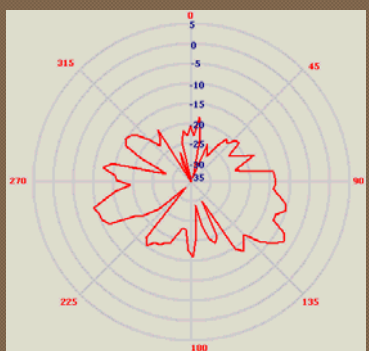
Pol.	peak	avg.
h	-8.1	-14.5

yz-plane

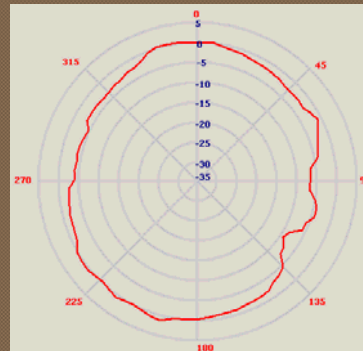


Pol.	peak	avg.
h	-0.5	-5.2

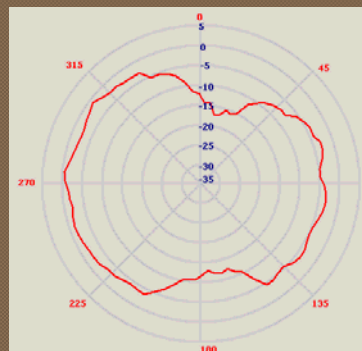
vertical



Pol.	peak	avg.
v	-7.4	-16.0



Pol.	peak	avg.
v	+1.1	-2.1



Pol.	peak	avg.
v	-0.7	-4.7

