

Quanta JET Projects Antenna Measurement Report

Project : JET AW3 (Plum)

Report Released Date : 2005/02/25

Measurement Instrument :

1、 Agilent Technologies E5071A 300K~8.5GHz ENASeries Network Analyzer

2、 Chamber : 3.5m(W) * 3.25m(H) * 7.12m(L)

Gain Horn Antenna : SG-430 1.7~2.6GHz

Gain Horn Antenna : SG-187 3.9~5.9GHz

Measurement Frequency : 2.0 GHz ~ 6.0GHz

Cable Length: Main: 733 mm (Black)

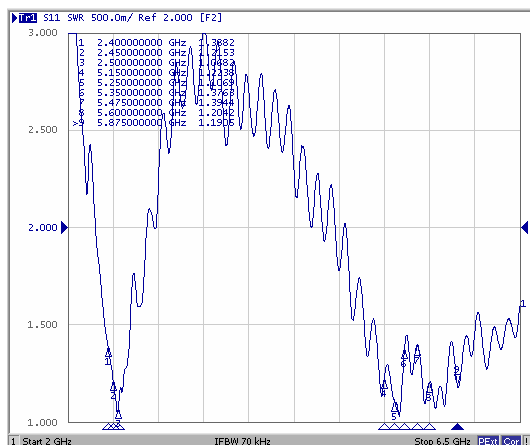
AUX: 1050 mm (Gray)

Antenna Photo

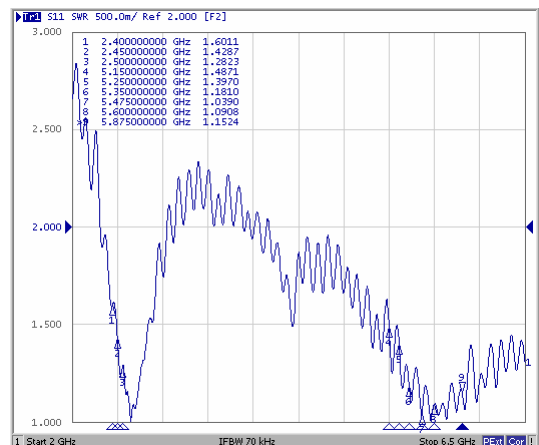


VSWR Measurement Results

Left Side Antenna



Right Side Antenna



VSWR Measurement Results

Antenna	VSWR		
Frequency (GHz)	2.4	2.45	2.5
Left Side	1.38	1.21	1.06
Right Side	1.60	1.42	1.28

Antenna	VSWR							
Frequency(GHz)	5.15	5.25	5.35	5.47	5.6	5.725	5.8	5.875
Left Side	1.22	1.10	1.37	1.39	1.20	1.25	1.36	1.19
Right Side	1.48	1.39	1.18	1.03	1.09	1.12	1.16	1.15

Antenna Peak Gain & Average Gain Test Result

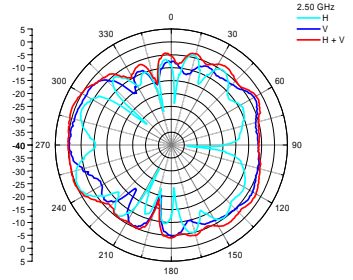
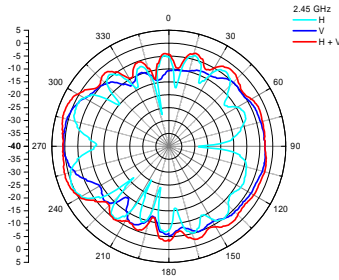
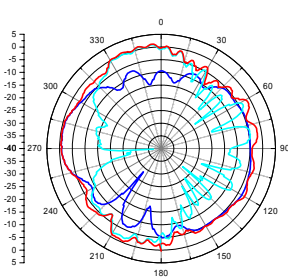
Antenna	Peak Gain (dBi)			Ave. Gain (dBi)		
Frequency (GHz)	2.4	2.45	2.5	2.4	2.45	2.5
Left Side	0.94	1.07	-0.38	-2.09	-1.96	-2.24
Right Side	1.00	0.76	-0.26	-2.51	-2.41	-3.17

Antenna	Peak Gain (dBi)							
Frequency(GHz)	5.15	5.25	5.35	5.47	5.6	5.725	5.8	5.875
Left Side	0.75	0.37	0.96	0.65	0.88	-0.24	0.81	1.73
Right Side	-0.09	-0.68	-0.30	-0.69	-0.42	-0.28	-0.01	0.46

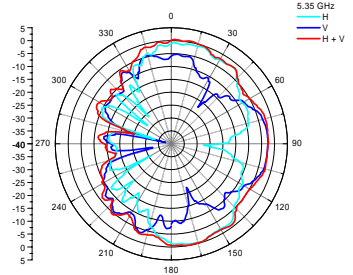
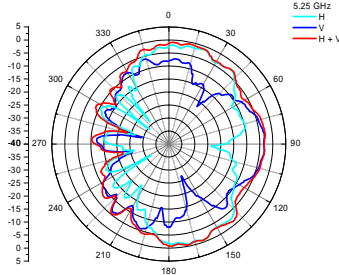
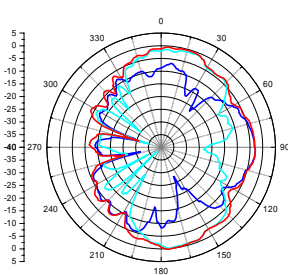
Antenna	Ave. Gain (dBi)							
Frequency(GHz)	5.15	5.25	5.35	5.47	5.6	5.725	5.8	5.875
Left Side	-2.39	-2.30	-2.66	-2.84	-2.65	-2.87	-2.76	-2.52
Right Side	-4.23	-4.45	-3.50	-3.78	-3.20	-3.42	-3.37	-2.51

Right Side Antenna Radiation Pattern

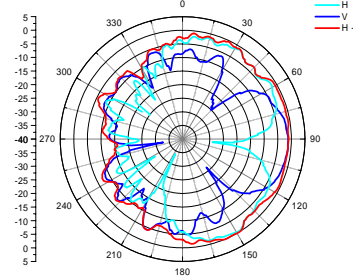
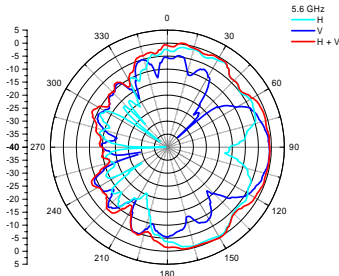
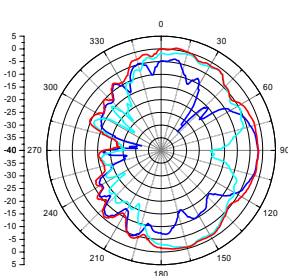
2.4~2.5 GHz



5.15~5.35 GHz



5.47~5.725 GHz



5.8~5.875 GHz

