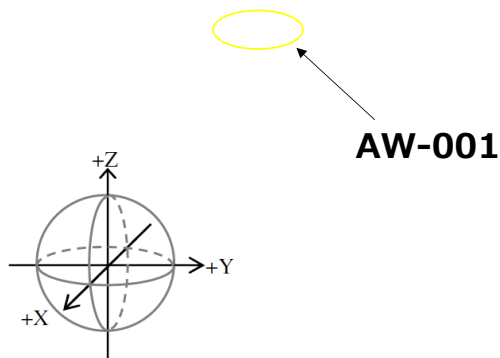


WKR612_Antenna document_2.4GHz band (Installed on evaluation board for WKR612)

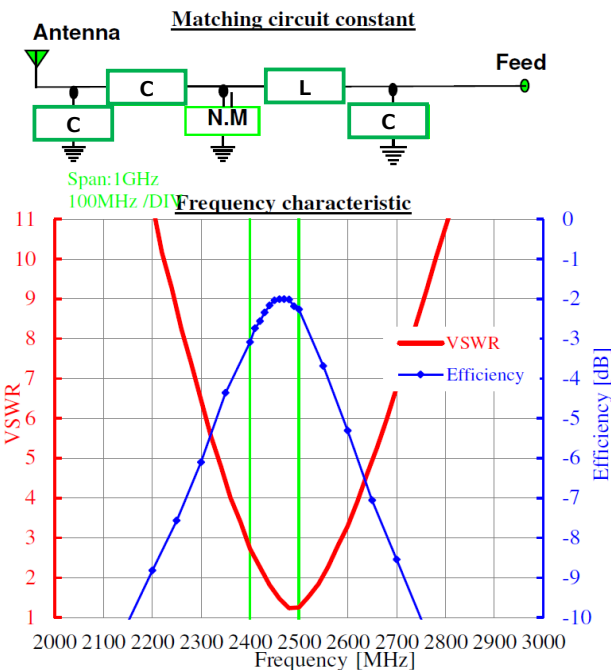
Measurement data of antenna

Measured in MVG SG24 system at TAIYO YUDEN R&D CENTER.

Appearance and coordinates definition

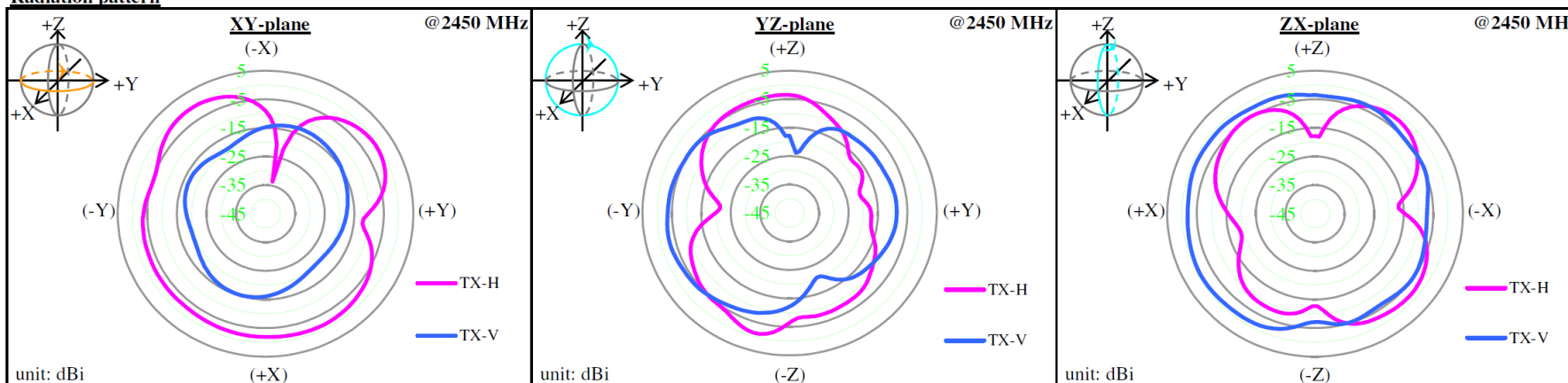


Frequency [MHz]	@ 2400	@ 2450	@ 2500
Peak gain [dBi]			
3-plane TX-H	-1.7	-0.4	-0.7
TX-V	-2.1	-0.8	-0.9
	-1.7	-0.4	-0.7
Average gain [dBi]			
XY-plane TX-H	-4.5	-3.1	-3.3
TX-V	-17.3	-16.5	-16.8
Plus(H,V)	-4.3	-2.9	-3.1
YZ-plane TX-H	-7.9	-6.9	-6.7
TX-V	-8.5	-7.3	-7.9
Plus(H,V)	-5.2	-4.1	-4.2
XZ-plane TX-H	-6.9	-6.3	-7.1
TX-V	-4.6	-3.2	-3.2
Plus(H,V)	-2.6	-1.5	-1.7
3plane TX-H	-6.2	-5.1	-5.3
TX-V	-7.7	-6.4	-6.6
	-3.9	-2.7	-2.9
Efficiency [dB]	-3.1	-2.0	-2.3
VSWR [:1]	2.7	1.6	1.3



*Note: The value is average value in 1 round of each inclination direction angle.

Radiation pattern

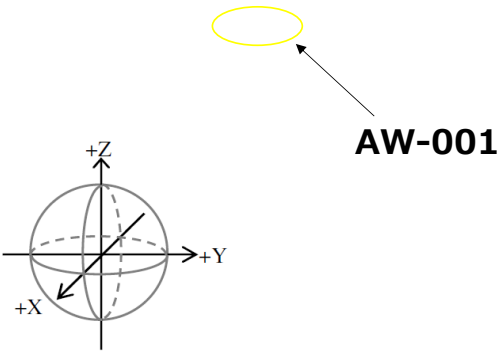


WKR612_Antenna document_5GHz band (Installed on evaluation board for WKR612)

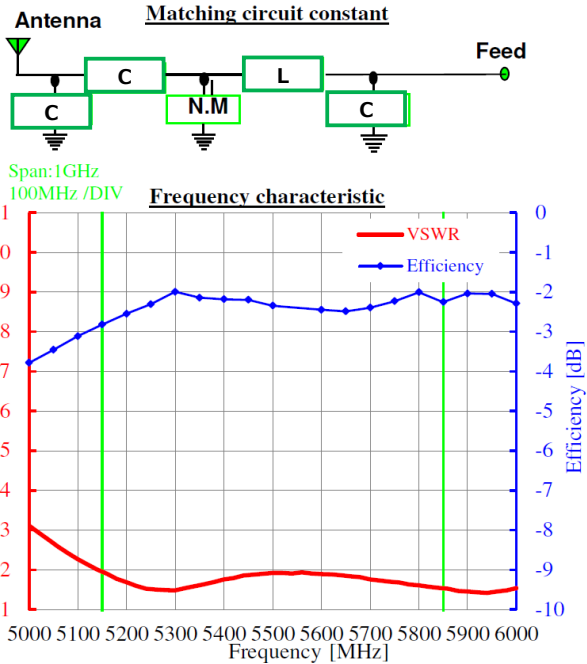
Measurement data of antenna

Measured in MVG SG24 system at TAIYO YUDEN R&D CENTER.

Appearance and coordinates definition



Frequency [MHz]		@ 5150	@ 5400	@ 5850
Peak gain	[dBi]			
3-plane	TX-H	-0.7	0.8	3.0
	TX-V	-0.7	-0.1	3.2
		-0.7	0.8	3.2
Average gain	[dBi]			
XY-plane	TX-H	-4.1	-3.1	-2.9
	TX-V	-15.3	-13.1	-14.9
	Plus(H,V)	-3.8	-2.6	-2.6
YZ-plane	TX-H	-5.6	-5.1	-6.1
	TX-V	-4.0	-3.5	-6.8
	Plus(H,V)	-1.7	-1.2	-3.4
XZ-plane	TX-H	-11.3	-11.4	-12.0
	TX-V	-7.3	-4.2	-0.9
	Plus(H,V)	-5.8	-3.4	-0.6
3plane	TX-H	-6.1	-5.3	-5.6
	TX-V	-6.9	-5.3	-4.6
		-3.5	-2.3	-2.0
Efficiency	[dB]	-2.8	-2.2	-2.3
VSWR	[:1]	2.0	1.8	1.5



*Note: The value is average value in 1 round of each inclination direction angle.

Radiation pattern

