

6.2 Efficiency (3D)

	1	2	3	4	5	6	7	8	9	10
Frequency [MHz]	2400	2432	2450	2484	5150	5350	5470	5650	5700	5800
Efficiency [dB]	-1.86	-1.16	-1.56	-1.39	-1.41	-1.04	-1.55	-1.78	-2.48	-2.63
Efficiency [%]	65.1	76.5	69.8	72.6	72.2	78.8	69.9	66.4	56.5	54.6
TRG _θ [dB]	-2.28	-1.54	-1.92	-1.71	-1.57	-1.31	-1.83	-2.08	-2.76	-2.91
Gain _{θ Peak} [dB]	0.65	1.29	0.77	0.91	2.19	2.60	1.80	2.11	1.05	0.32
Gain _{θ Min} [dB]	-7.47	-7.61	-8.93	-9.71	-15.57	-27.48	-21.41	-12.44	-12.46	-10.72
TRG _φ [dB]	-12.23	-11.93	-12.53	-12.94	-15.88	-13.13	-13.58	-13.53	-14.44	-14.59
Gain _{φ Peak} [dB]	-4.13	-3.69	-4.31	-4.85	-3.66	-1.37	-1.54	-1.34	-2.43	-2.63
Gain _{φ Min} [dB]	-28.43	-34.42	-35.23	-32.66	-38.34	-43.65	-36.47	-32.96	-60.87	-28.26
UHRG [dB]	-5.01	-4.15	-4.47	-4.08	-3.25	-2.84	-3.43	-4.20	-5.05	-5.51
UHRG/TRG [%]	48.4	50.2	51.2	53.9	65.6	66.1	64.9	57.2	55.3	51.5
H-Plane	-1.16	-0.40	-0.70	-0.63	1.32	1.03	-0.32	-1.54	-2.46	-2.38
E1-Plane, AVG [dB]	-3.31	-2.67	-3.07	-2.91	-2.22	-1.61	-1.93	-1.90	-2.84	-3.38
E2-Plane, AVG [dB]	-2.29	-1.60	-1.98	-1.86	-3.17	-2.83	-3.23	-3.66	-4.06	-4.00
Peak Gain [dB]	1.84	2.44	1.92	1.61	2.23	2.68	2.17	2.52	1.55	0.80
Directivity [dB]	3.70	3.60	3.49	3.00	3.64	3.72	3.72	4.30	4.03	3.43
Minimum Gain [dB]	-6.73	-6.83	-8.07	-8.99	-13.71	-27.38	-16.18	-7.78	-7.89	-8.65
Test Condition	FS									
Antenna Type										

Average Efficiency	-1.66 dB	68.24 %
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