

File Name: 3D Gain_2400-2480MHz.pat
Test Method: Two-Axis Dual-Polarization Pattern Measurement
Test Start Time: 2016/07/01 13:17:44
Test End Time: 2016/07/01 13:28:11
Comments:
PCB_No.3_Cable 1_3D_704-6000 MHz

Polarization

Theta	Frequency (MHz)														
2400 Theta Ang		0	15	30	45	60	75	90	105	120	135	150	165	180	
Phi Angle	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response (dB)	
0	-24.24	-19.82	-14.36	-10.03	-9.06	-10.36	-16.16	-10.31	-5.25	-4.59	-7.61	-8.18	-8.46	-8.46	
15	-38.44	-27.61	-16.33	-11.16	-9.33	-10.5	-16.33	-12.04	-6.31	-4.92	-6.95	-8.01	-8.46	-8.46	
30	-28.35	-23.77	-19.75	-12.99	-9.85	-10.06	-12.68	-11.04	-7.84	-4.87	-6.58	-7.52	-8.46	-8.46	
45	-21.32	-17.02	-16.09	-11.32	-9.6	-10.12	-10.7	-9.4	-8.57	-5.05	-6.56	-6.62	-8.46	-8.46	
60	-17.88	-14.89	-12.56	-10.03	-8.85	-9.71	-9.08	-8.22	-9.91	-4.78	-6.13	-5.89	-8.46	-8.46	
75	-15.88	-12.38	-10.79	-8.65	-7.82	-10.08	-8.38	-7.55	-10.15	-4.65	-5.8	-5.59	-8.46	-8.46	
90	-14.76	-11.75	-9.85	-7.56	-7.41	-9.81	-7.86	-7.17	-10.5	-4.56	-5.68	-5.4	-8.46	-8.46	
105	-14.31	-12.4	-10.16	-7.77	-7.46	-10.22	-8.5	-6.92	-10.49	-4.41	-5.23	-5.78	-8.46	-8.46	
120	-14.47	-14.04	-11.47	-8.69	-7.8	-9.99	-8.41	-7.47	-10.09	-4.96	-5.53	-6.26	-8.46	-8.46	
135	-15.26	-16.03	-12.51	-9.38	-8.21	-9.41	-10.16	-8.38	-9.31	-5.24	-5.2	-7.01	-8.46	-8.46	
150	-16.8	-18.85	-15.71	-10.25	-8.74	-8.93	-11.31	-10.07	-7.57	-5.21	-5.57	-8.01	-8.46	-8.46	
165	-19.45	-22.11	-14.25	-9.99	-7.54	-9.16	-11.89	-10.7	-6.1	-5.14	-6.04	-9.39	-8.46	-8.46	
180	-24.24	-20.55	-12.96	-8.56	-7.34	-7.32	-14.73	-10.48	-5.14	-5.21	-5.95	-10.76	-8.46	-8.46	
195	-38.44	-17.69	-11.5	-7.79	-6.65	-7.69	-16.12	-9.19	-4.41	-4.5	-5.99	-11.08	-8.46	-8.46	
210	-28.35	-14.88	-10.64	-7.39	-6.94	-7.22	-14.56	-8.71	-4.45	-4.05	-6.83	-12.11	-8.46	-8.46	
225	-21.32	-14.29	-10.53	-7.29	-6.79	-7.77	-13.79	-8.58	-4.76	-3.42	-6.81	-12.13	-8.46	-8.46	
240	-17.88	-13.53	-10.98	-7.64	-8.03	-8.31	-13.58	-9.15	-4.6	-3.33	-6.8	-12.32	-8.46	-8.46	
255	-15.88	-12.94	-11.33	-8.12	-7.98	-8.3	-12.63	-9.29	-4.71	-3.43	-6.83	-11.65	-8.46	-8.46	
270	-14.76	-12.38	-10.94	-9	-8.97	-8.76	-12.63	-9.13	-4.8	-3.47	-6.59	-12.39	-8.46	-8.46	
285	-14.31	-12.67	-11.96	-8.71	-8.59	-9.01	-13.18	-9.15	-4.77	-3.47	-7.05	-12.08	-8.46	-8.46	
300	-14.47	-12.72	-11.12	-8.47	-8.72	-9.05	-13.17	-9.51	-4.86	-3.74	-7.68	-11.98	-8.46	-8.46	
315	-15.26	-13.07	-10.96	-8.48	-8.43	-9.74	-14.09	-9	-5.01	-3.71	-7.36	-10.56	-8.46	-8.46	
330	-16.8	-13.56	-10.76	-8.64	-8.28	-9.71	-15.7	-9.26	-5.18	-3.83	-7.56	-10.53	-8.46	-8.46	
345	-19.45	-16.34	-12.15	-8.68	-8.69	-10.07	-17.15	-9.29	-5.43	-4.26	-7.42	-8.7	-8.46	-8.46	
360	-24.24	-19.54	-14.18	-9.99	-8.9	-9.92	-16.97	-10.53	-5.26	-4.81	-7.94	-8.42	-8.46	-8.46	
2440 Theta Ang		0	15	30	45	60	75	90	105	120	135	150	165	180	
Phi Angle	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response (dB)	
0	-23.9	-17.66	-13.68	-9.2	-8.15	-8.47	-16.07	-9.18	-4.24	-3.43	-6.19	-6.86	-7.06	-7.06	
15	-43.74	-26.09	-17.67	-10.38	-8.69	-9.26	-13.82	-9.95	-5.15	-3.85	-5.58	-6.4	-7.06	-7.06	
30	-25.81	-26.18	-22.52	-12.55	-8.92	-8.89	-10.35	-9.22	-6.7	-4.01	-5.4	-6.03	-7.06	-7.06	
45	-19.54	-17.32	-15.72	-10.88	-8.89	-8.87	-9.24	-7.68	-7.67	-3.9	-5.17	-5.03	-7.06	-7.06	
60	-16.33	-12.61	-12.31	-9	-7.65	-8.72	-7.46	-5.99	-8.25	-3.72	-4.89	-4.31	-7.06	-7.06	
75	-14.46	-11.41	-9.36	-7.53	-6.42	-8.67	-7.2	-5.81	-8.62	-3.26	-4.48	-4.18	-7.06	-7.06	
90	-13.43	-9.93	-9.05	-6.34	-5.82	-8.79	-7.02	-5.8	-9.06	-3.2	-4.3	-4.01	-7.06	-7.06	
105	-13.06	-10.06	-9.44	-6.77	-5.82	-8.77	-7.26	-5.67	-9.41	-3.26	-4.27	-4.28	-7.06	-7.06	
120	-13.3	-11.87	-10.58	-7.46	-6.54	-9.03	-8.07	-6.24	-8.87	-3.46	-3.74	-5.01	-7.06	-7.06	
135	-14.17	-13.84	-12.17	-9.23	-7.46	-8.36	-8.91	-7.52	-7.77	-3.92	-3.97	-5.73	-7.06	-7.06	
150	-15.82	-17.99	-14.95	-10.12	-7.28	-7.96	-10.32	-9.47	-7.06	-3.8	-3.94	-6.7	-7.06	-7.06	
165	-18.65	-23.29	-15.11	-9.67	-6.93	-7.55	-11.49	-10.44	-5.36	-3.67	-4.32	-7.54	-7.06	-7.06	
180	-23.9	-21.26	-12.99	-7.79	-5.96	-6.71	-14.09	-10.1	-4.1	-3.46	-4.7	-9	-7.06	-7.06	
195	-43.74	-16.74	-11.79	-6.42	-5.2	-6.53	-14.41	-8.91	-3.11	-3.1	-4.78	-9.64	-7.06	-7.06	
210	-25.81	-14.71	-10.54	-6.54	-5.43	-6.24	-14.5	-7.83	-3.46	-2.76	-5.15	-10.22	-7.06	-7.06	
225	-19.54	-12.8	-10.9	-5.88	-5.72	-6.42	-13.17	-7.5	-3.27	-2.29	-5.44	-10.64	-7.06	-7.06	
240	-16.33	-12.27	-11.12	-7.18	-6.87	-6.89	-12.22	-7.78	-3.18	-1.99	-5.33	-10.82	-7.06	-7.06	
255	-14.46	-12.75	-10.64	-7.56	-7.33	-6.66	-11.94	-8.14	-2.97	-2.11	-5.01	-11.32	-7.06	-7.06	
270	-13.43	-12.23	-11.22	-7.51	-7.28	-6.88	-12.2	-8.56	-3.2	-2.07	-5.19	-11.32	-7.06	-7.06	
285	-13.06	-12.54	-10.42	-7.97	-7.31	-6.9	-11.91	-7.58	-3.3	-2.18	-5.4	-11.05	-7.06	-7.06	
300	-13.3	-12.2	-11.29	-8.11	-7.27	-7.55	-12.35	-7.96	-3.42	-2.3	-5.85	-10.13	-7.06	-7.06	
315	-14.17	-12.43	-10.54	-7.67	-7.18	-7.97	-13.25	-7.88	-3.59	-2.28	-6.39	-9.86	-7.06	-7.06	
330	-15.82	-13.17	-10.24	-7.35	-7.06	-9.04	-15.19	-7.95	-3.75	-2.59	-6.63	-8.82	-7.06	-7.06	
345	-18.65	-14.9	-11.83	-7.51	-7.5	-8.52	-16.06	-8.1	-3.73	-3.07	-6.48	-7.95	-7.06	-7.06	
360	-23.9	-19.33	-14.19	-9.31	-8.13	-8.6	-16.29	-8.96	-4.3	-3.33	-6.52	-6.99	-7.06	-7.06	
2480 Theta Ang		0	15	30	45	60	75	90	105	120	135	150	165	180	
Phi Angle	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response (dB)	
0	-28.41	-19.51	-14.93	-10.61	-8.78	-10.71	-16.21	-9.74	-5.38	-4.4	-7.05	-8.1	-8.01	-8.01	
15	-30.31	-25.68	-20.83	-13	-10	-10.1	-13.59	-10.7	-5.85	-4.92	-6.62	-7.18	-8.01	-8.01	
30	-20.27	-29.25	-23.53	-15.41	-10.29	-9.88	-10.5	-9.16	-7.67	-4.93	-6.73	-6.65	-8.01	-8.01	
45	-16.09	-17.72	-16.35	-13.4	-9.64	-9.79	-9.19	-7.3	-9.24	-5.09	-6.3	-6.03	-8.01	-8.01	
60	-13.73	-13.12	-12.23	-9.51	-7.96	-9.85	-8.01	-6.29	-9.9	-4.73	-5.7	-5.41	-8.01	-8.01	
75	-12.36	-11.72	-10.25	-8.3	-7.43	-8.84	-7.46	-5.76	-9.85	-4.77	-5.9	-5.06	-8.01	-8.01	
90	-11.71	-10.57	-9.05	-7.51	-6.66	-9.24	-7.1	-5.18	-10.39	-4.47	-5.28	-5.11	-8.01	-8.01	
105	-11.68	-10.88	-9.08	-7.2	-6.54	-9.09	-7.09	-5.75	-10.26	-4.47	-5.3	-5.3	-8.01	-8.01	
120	-12.26	-12.53	-10.44	-8.99	-7.49	-9.24	-8.37	-6.23	-10.14	-4.75	-4.94	-5.73	-8.01	-8.01	
135	-13.54	-14.62	-13.09	-10.29	-7.83	-9.47	-9.08	-7.93	-9.27	-4.85	-5.34	-6.64	-8.01	-8.01	
150	-15.77	-22.17	-15.78	-12.33	-8.39	-8.79	-10.22	-10.06	-8.15	-5.25	-5.05	-7.89	-8.01	-8.01	
165	-19.67	-23.74	-18.28	-11.52	-8.53	-7.95	-12.43	-11.3	-6.37	-5.25	-5.24	-8.32	-8.01	-8.01	
180	-28.41	-22.05	-14.86	-9.41	-7.29	-7.82	-13.26	-11.25	-5.15	-4.92	-5.48	-9.64	-8.01	-8.01	
195	-30.31	-19.12	-12.65	-7.98	-6.46	-7	-15.55	-10.17	-4.44	-4.27	-5.95	-10.88	-8.01	-8.01	
210	-20.27	-15.99	-11.7	-7.9	-6.03	-6.64	-15.14	-9.53	-4.54	-3.32	-6.03	-11.2	-8.01	-8.01	
225	-16.09	-15.69	-11.96	-8.16	-6.61	-6.74	-13.36	-9.42	-3.83	-2.95	-6.15	-11.06	-8.01	-8.01	
240	-13.73	-14.54	-11.92	-8.55	-7.39	-6.68	-13.37	-8.98	-4.22	-2.89	-6.25	-11.75	-8.01	-8.01	
255	-12.36	-15.07	-12.8	-9.12	-7.68	-6.73	-13.17	-9.44	-3.85	-2.74	-5.75	-12.12	-8.01	-8.01	
270	-11.71	-14.23	-13.76	-9.82	-8.32	-6.9	-13.66	-9.55	-3.84	-2.72	-6.08	-12.59	-8.01	-8.01	
285	-11.68	-14.71	-12.9	-9.75	-8.28	-7.37	-12.83	-8.82	-3.86	-2.77	-6.1	-11.73	-8.01	-8.01	
300	-12.26	-13.76	-13.14	-9.82	-8.03	-7.53	-13.33	-9.15	-4.06	-2.71	-6.49	-11.32	-8.01	-8.01	

315	-13.54	-13.93	-12.62	-9.25	-7.77	-8.53	-13.58	-8.71	-4.46	-3.12	-6.99	-10.29	-8.01
330	-15.77	-14.08	-12.19	-8.93	-7.59	-9.28	-15.2	-8.67	-4.79	-3.02	-7.42	-10.07	-8.01
345	-19.67	-16.37	-13.72	-9.11	-7.76	-9.66	-17.12	-9.03	-4.89	-3.85	-7.63	-8.46	-8.01
360	-28.41	-19.31	-14.97	-10.38	-9	-9.93	-15.96	-9.86	-5.41	-4.34	-6.85	-8.46	-8.01

Phi	Frequency (MHz)													
	2400 Theta Ang													
	Phi Angle	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response (dB)
	0	-14.76	-13.56	-12.37	-12.03	-10.81	-12.39	-12.44	-12.92	-13.86	-10.42	-14.67	-20.58	-20.65
	15	-14.31	-13.1	-11.21	-9.62	-8.89	-9.27	-10.48	-9.77	-9.44	-9.41	-16.28	-17.4	-20.65
	30	-14.47	-13.52	-10.83	-8.86	-8.71	-8.53	-10.03	-8.25	-8.34	-9.29	-17.16	-16.88	-20.65
	45	-15.26	-13.7	-11.51	-9.02	-9.48	-9.44	-10.71	-8.44	-8.85	-11.06	-17.44	-16.73	-20.65
	60	-16.8	-15.26	-12.28	-11.82	-11.86	-11.1	-13.2	-10.44	-11.29	-14.32	-19.23	-17.6	-20.65
	75	-19.45	-18.85	-15.81	-15.34	-15.53	-15.84	-17.08	-15.01	-15.82	-19.36	-21.15	-20	-20.65
	90	-24.24	-24.29	-22.95	-24.27	-27.24	-33.58	-32.47	-27.25	-28.61	-37.32	-36.33	-26.79	-20.65
	105	-38.44	-20.91	-22.93	-20.18	-18.89	-18.12	-19.41	-19.24	-17.38	-20.22	-28.68	-26.35	-20.65
	120	-28.35	-16.98	-16.45	-13.78	-14.28	-11.18	-13.82	-12.39	-11.7	-14.7	-25.33	-20.58	-20.65
	135	-21.32	-15.11	-13.35	-10.25	-10.87	-8.48	-11.27	-9.72	-8.96	-11.26	-21.19	-18.66	-20.65
	150	-17.88	-12.79	-12.07	-9.03	-8.99	-7.69	-9.55	-8.74	-7.79	-9.19	-18.48	-16.94	-20.65
	165	-15.88	-12.84	-12.51	-9.42	-9.55	-7.83	-9.44	-9.86	-8.29	-8.65	-19.18	-18.37	-20.65
	180	-14.76	-12.24	-13.57	-10.37	-9.88	-9.69	-10.3	-12.49	-11.92	-9.19	-17.22	-19	-20.65
	195	-14.31	-14.2	-15.12	-12.34	-11.22	-13.13	-13.44	-14.21	-19.27	-11.51	-16.7	-21.49	-20.65
	210	-14.47	-15.96	-17.83	-14.98	-14.88	-18.83	-17.99	-23.18	-38.82	-14.11	-19.85	-27.15	-20.65
	225	-15.26	-17.77	-21.62	-17.25	-16.71	-23.84	-22.51	-23.07	-28.04	-18.61	-23.27	-26.3	-20.65
	240	-16.8	-17.93	-24.22	-19.1	-21.5	-35.5	-37.24	-21.34	-28.39	-18.43	-28.64	-45.06	-20.65
	255	-19.45	-21.76	-27.24	-21.52	-24.36	-38.67	-36.55	-23.32	-28.02	-20.29	-26.06	-42.17	-20.65
	270	-24.24	-24.21	-29.51	-24.05	-27.33	-28.46	-28.66	-27.43	-24.02	-20.34	-23.72	-30.28	-20.65
	285	-38.44	-28.93	-29.14	-26.25	-28.93	-19.59	-24.54	-19.91	-20.9	-20.93	-23.17	-24.19	-20.65
	300	-28.35	-36.73	-26.3	-29	-26.05	-20.7	-23.15	-17.37	-18.59	-20.77	-19.63	-23.21	-20.65
	315	-21.32	-25.78	-22.04	-28.65	-23.38	-22.34	-26.81	-18.85	-17.68	-30.51	-16.63	-24.93	-20.65
	330	-17.88	-19.65	-18.44	-22.6	-16.91	-24.75	-21.22	-28.72	-22.99	-21.69	-15.21	-23.64	-20.65
	345	-15.88	-16.45	-14.51	-16.51	-14.22	-18.09	-16.6	-18.78	-24.51	-14.58	-14.34	-21.67	-20.65
	360	-14.76	-14.45	-13.01	-11.7	-10.66	-13.14	-13.16	-12.39	-14.43	-10.54	-14.42	-20.21	-20.65

2440 Theta Ang	0	15	30	45	60	75	90	105	120	135	150	165	180
Phi Angle	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response (dB)
0	-13.43	-12.54	-11.98	-10.51	-8.83	-10.76	-9.91	-10.45	-11.93	-8.54	-12.4	-18.01	-18.6
15	-13.06	-11.16	-9.74	-8.74	-7.61	-7.73	-7.49	-7.45	-7.85	-6.69	-13.95	-17.11	-18.6
30	-13.3	-11.85	-9.48	-7.29	-6.78	-6.96	-7.24	-6.3	-6.25	-6.89	-15.05	-15.44	-18.6
45	-14.17	-12.28	-11	-8.02	-8.08	-7.23	-8.09	-6.56	-7.06	-8.06	-15.31	-14.11	-18.6
60	-15.82	-14.89	-12.04	-9.99	-10.37	-9.49	-11.05	-7.87	-9.65	-12.22	-17.39	-15.75	-18.6
75	-18.65	-20.06	-16.12	-14.09	-15.14	-15.39	-14.37	-13.12	-14.16	-16.36	-20.39	-19.89	-18.6
90	-23.9	-22.5	-22.96	-24.62	-33.89	-33.09	-26.35	-34.61	-41.53	-25.69	-21.38	-18.6	-18.6
105	-43.74	-18.93	-22.19	-19.11	-16.5	-15.46	-19.23	-16.64	-16.14	-18.53	-40.29	-21.59	-18.6
120	-25.81	-14.56	-15.64	-12.06	-11.3	-9.98	-12.18	-10.99	-9.98	-12.83	-22.77	-18.49	-18.6
135	-19.54	-11.66	-12.81	-9.85	-8.48	-6.71	-9.39	-7.49	-6.79	-10.26	-18.58	-16.45	-18.6
150	-16.33	-10.43	-10.8	-8.63	-7.25	-5.42	-7.18	-6.92	-5.98	-7.91	-18.83	-14.81	-18.6
165	-14.46	-10.02	-11.72	-8.91	-7.13	-5.81	-7.09	-7.38	-6.66	-6.75	-15.42	-15.11	-18.6
180	-13.43	-10.89	-12.68	-10.24	-8.05	-7.56	-7.67	-9.17	-10.64	-7.36	-14.4	-17.71	-18.6
195	-13.06	-11.58	-14.72	-12.57	-10.42	-10.11	-11.11	-13.2	-16.84	-9.52	-15.75	-20.17	-18.6
210	-13.3	-12.23	-18.12	-16.87	-14.07	-16.58	-14.25	-25.38	-25.3	-13.12	-17.31	-23.04	-18.6
225	-14.17	-14.5	-21.15	-19.75	-15.79	-20.93	-19.2	-21	-35.17	-15.46	-19.39	-25.67	-18.6
240	-15.82	-15.61	-26.51	-20.4	-18.3	-27.36	-26.12	-18.01	-29.12	-18.62	-26.06	-27.3	-18.6
255	-18.65	-17.46	-28.59	-22.3	-20.82	-25.59	-25.24	-25.17	-28.86	-17.69	-25.18	-31.23	-18.6
270	-23.9	-19.49	-33.26	-24.77	-27.22	-23.68	-29.62	-25.45	-21.87	-20.37	-24.27	-27.38	-18.6
285	-43.74	-23.02	-40.99	-27.2	-27.64	-21.6	-21.53	-21.07	-19.49	-19.18	-20.41	-22.52	-18.6
300	-25.81	-22.48	-34.26	-35.74	-27.37	-19.69	-28.38	-16.07	-19.73	-19.48	-17.89	-21.84	-18.6
315	-19.54	-22.11	-23.05	-26.82	-25.07	-19.4	-33.23	-18.74	-18.41	-29.39	-15.4	-21.1	-18.6
330	-16.33	-18.7	-17.92	-20.18	-19.31	-21.16	-19.26	-33.23	-20.89	-21.99	-13.98	-21.78	-18.6
345	-14.46	-15.37	-13.73	-14.21	-13.26	-15.93	-13.23	-18.83	-18.13	-12.08	-11.99	-20.33	-18.6
360	-13.43	-13.71	-11.34	-10.72	-9.04	-9.97	-10.29	-10.51	-11.89	-8.23	-12.15	-18.51	-18.6

2480 Theta Ang	0	15	30	45	60	75	90	105	120	135	150	165	180
Phi Angle	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response (dB)
0	-11.71	-12.2	-13.15	-11.52	-10.02	-10.17	-10.51	-10.72	-12.99	-9.58	-14.74	-20.76	-19.95
15	-11.68	-11.55	-10.72	-10.44	-7.96	-8.4	-7.71	-8.34	-8.89	-7.67	-13.29	-17.77	-19.95
30	-12.26	-11.54	-9.75	-9.25	-6.96	-7.16	-7.95	-6.95	-6.82	-7.84	-14.7	-16.37	-19.95
45	-13.54	-12.54	-11.09	-9.12	-8.07	-7.89	-8.57	-7.18	-7.3	-9.29	-15.64	-16.04	-19.95
60	-15.77	-15.85	-12.9	-11.19	-9.85	-10.17	-10.71	-8.8	-9.96	-12.04	-17.88	-16.2	-19.95
75	-19.67	-19.35	-17.87	-15.4	-15.34	-13.78	-15.46	-13.43	-15.84	-17.61	-21.82	-21.17	-19.95
90	-28.41	-29.28	-28.48	-20.64	-29.57	-26.49	-25.06	-25.19	-44.24	-39.64	-30.97	-21.72	-19.95
105	-30.31	-19.67	-20.04	-19.78	-19.94	-17.16	-21.04	-16.36	-16.34	-22.09	-34.83	-21.09	-19.95
120	-20.27	-14.98	-15.33	-13.58	-11.08	-10.69	-12.94	-11.02	-10.23	-13.95	-28.23	-19.03	-19.95
135	-16.09	-12.38	-12.3	-10.73	-8.67	-7.86	-10.04	-8.19	-7.1	-9.83	-20.35	-17.11	-19.95
150	-13.73	-11.17	-11.46	-9.69	-7.72	-6.43	-7.7	-7.7	-6.55	-8.07	-19.06	-16.22	-19.95
165	-12.36	-10.81	-10.71	-10.85	-7.85	-6.99	-7.4	-7.8	-7.81	-7.69	-16.57	-18.88	-19.95
180	-11.71	-11.15	-12.74	-12.28	-8.67	-8.01	-8.45	-9.93	-10.54	-8.18	-14.76	-20.24	-19.95
195	-11.68	-12.25	-14.73	-15.79	-11.28	-10.72	-10.76	-13.66	-14.45	-10.84	-14.85	-22.33	-19.95
210	-12.26	-13.74	-16.18	-19.12	-13.75	-16.06	-14.45	-23.56	-24.57	-15.36	-16.82	-22.9	-19.95
225	-13.54	-15.65	-19.79	-26.82	-16.15	-20.58	-16.99	-22.61	-34.8	-18.71	-20.6	-28.73	-19.95
240	-15.77	-17.5	-22.04	-22.8	-18.61	-23.69	-22.64	-20.72	-45.79	-17.63	-27.67	-39.05	-19.95
255	-19.67	-18.98	-28.59	-30.38	-22.06	-22.48	-24.72	-22.72	-28.68	-19.77	-26.01	-34.74	-19.95
270	-28.41	-18.95	-23.63	-25.61	-21.19	-22.35	-26.75	-30.88	-23.9	-22.12	-27.94	-22.44	-19.95
285	-30.31	-19.26	-32.63	-29.56	-23.63	-22.02	-24.05	-20.53	-20.15	-19.9	-24.8	-24.11	-19.95
300	-20.27	-21.48	-30.87	-29.49	-21.89	-22.71	-28.48	-15.93	-19.24	-20.75	-19.63	-21.19	-19.95
315	-16.09	-18.55	-31.69	-30.48	-23.3	-25.02	-31.69	-16.12	-17.35	-24.8	-18.2	-20.05	-19.95
330	-13.73	-15.62	-21.81	-23.52	-21.62	-20.69	-21.85	-24.04	-22.49	-21.92	-14.74	-22.03	-19.95
345	-12.36	-14.83	-16.34	-15.58	-14.3	-14.43	-14.38	-18.49	-20.84	-13.6	-13.52	-23.79	-19.95

		360	-11.71	-12.55	-12.59	-12.25	-9.35	-10.73	-10.17	-11.93	-13.38	-9.29	-13.86	-21.52	-19.95
Total	Frequency (MHz)														
	2400 Theta Ang	0	15	30	45	60	75	90	105	120	135	150	165	180	
	Phi Angle	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	(dB)
	0	-14.3	-12.63	-10.24	-7.9	-6.84	-8.25	-10.9	-8.41	-4.69	-3.58	-6.83	-7.93	-8.21	
	15	-14.3	-12.94	-10.05	-7.31	-6.09	-6.83	-9.48	-7.75	-4.59	-3.6	-6.47	-7.53	-8.21	
	30	-14.3	-13.13	-10.3	-7.44	-6.23	-6.22	-8.14	-6.42	-5.07	-3.53	-6.22	-7.04	-8.21	
	45	-14.3	-12.04	-10.21	-7.01	-6.53	-6.76	-7.69	-5.89	-5.7	-4.08	-6.22	-6.22	-8.21	
	60	-14.3	-12.06	-9.41	-7.83	-7.09	-7.34	-7.66	-6.18	-7.54	-4.32	-5.92	-5.6	-8.21	
	75	-14.3	-11.5	-9.6	-7.81	-7.14	-9.06	-7.83	-6.84	-9.11	-4.5	-5.67	-5.43	-8.21	
	90	-14.3	-11.52	-9.64	-7.47	-7.37	-9.79	-7.84	-7.13	-10.43	-4.55	-5.67	-5.37	-8.21	
	105	-14.3	-11.83	-9.94	-7.53	-7.16	-9.56	-8.16	-6.68	-9.68	-4.3	-5.21	-5.75	-8.21	
	120	-14.3	-12.25	-10.27	-7.52	-6.92	-7.53	-7.31	-6.26	-7.81	-4.52	-5.48	-6.1	-8.21	
	135	-14.3	-12.54	-9.9	-6.78	-6.33	-5.91	-7.67	-5.99	-6.12	-4.27	-5.09	-6.72	-8.21	
	150	-14.3	-11.83	-10.51	-6.58	-5.85	-5.25	-7.33	-6.35	-4.67	-3.75	-5.35	-7.49	-8.21	
	165	-14.3	-12.35	-10.28	-6.69	-5.42	-5.43	-7.49	-7.25	-4.05	-3.54	-5.83	-8.87	-8.21	
	180	-14.3	-11.65	-10.25	-6.36	-5.42	-5.34	-8.96	-8.36	-4.32	-3.75	-5.64	-10.15	-8.21	
	195	-14.3	-12.6	-9.94	-6.48	-5.35	-6.6	-11.57	-8	-4.27	-3.71	-5.63	-10.7	-8.21	
	210	-14.3	-12.38	-9.88	-6.69	-6.29	-6.93	-12.93	-8.55	-4.44	-3.64	-6.62	-11.98	-8.21	
	225	-14.3	-12.68	-10.2	-6.87	-6.37	-7.66	-13.24	-8.43	-4.74	-3.29	-6.71	-11.96	-8.21	
	240	-14.3	-12.18	-10.78	-7.34	-7.84	-8.3	-13.56	-8.9	-4.58	-3.2	-6.77	-12.32	-8.21	
	255	-14.3	-12.41	-11.22	-7.93	-7.88	-8.3	-12.61	-9.12	-4.69	-3.34	-6.78	-11.65	-8.21	
	270	-14.3	-12.1	-10.88	-8.87	-8.91	-8.72	-12.52	-9.06	-4.75	-3.38	-6.51	-12.32	-8.21	
	285	-14.3	-12.57	-11.88	-8.63	-8.55	-8.65	-12.87	-8.8	-4.67	-3.39	-6.95	-11.82	-8.21	
	300	-14.3	-12.7	-10.99	-8.43	-8.64	-8.76	-12.76	-8.85	-4.68	-3.66	-7.41	-11.66	-8.21	
	315	-14.3	-12.85	-10.64	-8.43	-8.29	-9.51	-13.87	-8.57	-4.78	-3.7	-6.87	-10.4	-8.21	
	330	-14.3	-12.6	-10.08	-8.47	-7.72	-9.58	-14.63	-9.21	-5.11	-3.76	-6.87	-10.32	-8.21	
	345	-14.3	-13.38	-10.16	-8.01	-7.62	-9.44	-13.86	-8.83	-5.38	-3.87	-6.62	-8.48	-8.21	
	360	-14.3	-13.27	-10.55	-7.75	-6.68	-8.23	-11.65	-8.35	-4.76	-3.78	-7.06	-8.14	-8.21	
	2440 Theta Ang	0	15	30	45	60	75	90	105	120	135	150	165	180	
	Phi Angle	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	(dB)
	0	-13.06	-11.37	-9.74	-6.8	-5.46	-6.45	-8.97	-6.76	-3.56	-2.26	-5.26	-6.54	-6.76	
	15	-13.06	-11.02	-9.09	-6.47	-5.11	-5.41	-6.58	-5.51	-3.29	-2.03	-4.99	-6.05	-6.76	
	30	-13.06	-11.69	-9.27	-6.16	-4.71	-4.81	-5.51	-4.51	-3.46	-2.21	-4.95	-5.56	-6.76	
	45	-13.06	-11.09	-9.74	-6.21	-5.46	-4.96	-5.61	-4.07	-4.35	-2.49	-4.77	-4.52	-6.76	
	60	-13.06	-10.59	-9.16	-6.45	-5.79	-6.08	-5.89	-3.82	-5.89	-3.14	-4.65	-4.01	-6.76	
	75	-13.06	-10.86	-8.53	-6.66	-5.88	-7.83	-6.44	-5.07	-7.55	-3.05	-4.37	-4.07	-6.76	
	90	-13.06	-9.7	-8.88	-6.28	-5.77	-8.77	-7.01	-5.76	-9.05	-3.2	-4.27	-3.93	-6.76	
	105	-13.06	-9.53	-9.21	-6.53	-5.46	-7.93	-6.99	-5.33	-8.57	-3.14	-4.27	-4.2	-6.76	
	120	-13.06	-10	-9.4	-6.17	-5.29	-6.47	-6.64	-4.98	-6.38	-2.98	-3.68	-4.82	-6.76	
	135	-13.06	-9.6	-9.47	-6.52	-4.93	-4.45	-6.13	-4.49	-4.24	-3.02	-3.82	-5.37	-6.76	
	150	-13.06	-9.73	-9.38	-6.3	-4.25	-3.49	-5.46	-5	-3.48	-2.38	-3.8	-6.08	-6.76	
	165	-13.06	-9.82	-10.08	-6.27	-4.02	-3.58	-5.75	-5.64	-2.95	-1.93	-3.99	-6.84	-6.76	
	180	-13.06	-10.51	-9.82	-5.83	-3.87	-4.1	-6.78	-6.6	-3.23	-1.98	-4.26	-8.46	-6.76	
	195	-13.06	-10.43	-10	-5.48	-4.06	-4.95	-9.45	-7.53	-2.93	-2.21	-4.45	-9.27	-6.76	
	210	-13.06	-10.28	-9.84	-6.16	-4.87	-5.86	-11.37	-7.76	-3.43	-2.38	-4.9	-9.99	-6.76	
	225	-13.06	-10.56	-10.5	-5.71	-5.32	-6.27	-12.2	-7.31	-3.26	-2.09	-5.27	-10.51	-6.76	
	240	-13.06	-10.61	-11	-6.98	-6.57	-6.85	-12.04	-7.38	-3.17	-1.89	-5.3	-10.72	-6.76	
	255	-13.06	-11.49	-10.57	-7.41	-7.14	-6.6	-11.75	-8.06	-2.96	-1.99	-4.97	-11.28	-6.76	
	270	-13.06	-11.48	-11.19	-7.42	-7.24	-6.79	-12.12	-8.47	-3.14	-2	-5.14	-11.21	-6.76	
	285	-13.06	-12.17	-10.41	-7.92	-7.27	-6.76	-11.46	-7.39	-3.2	-2.09	-5.27	-10.75	-6.76	
	300	-13.06	-11.81	-11.27	-8.1	-7.23	-7.29	-12.25	-7.33	-3.32	-2.22	-5.58	-9.85	-6.76	
	315	-13.06	-11.98	-10.3	-7.61	-7.11	-7.67	-13.21	-7.54	-3.45	-2.28	-5.88	-9.55	-6.76	
	330	-13.06	-12.1	-9.55	-7.13	-6.81	-8.78	-13.75	-7.94	-3.67	-2.54	-5.9	-8.6	-6.76	
	345	-13.06	-12.12	-9.67	-6.67	-6.48	-7.79	-11.41	-7.75	-3.57	-2.56	-5.4	-7.71	-6.76	
	360	-13.06	-12.66	-9.52	-6.95	-5.55	-6.22	-9.32	-6.66	-3.6	-2.11	-5.47	-6.7	-6.76	
	2480 Theta Ang	0	15	30	45	60	75	90	105	120	135	150	165	180	
	Phi Angle	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	Response	(dB)
	0	-11.62	-11.46	-10.94	-8.03	-6.34	-7.42	-9.47	-7.19	-4.69	-3.25	-6.36	-7.87	-7.74	
	15	-11.62	-11.39	-10.32	-8.52	-5.85	-6.15	-6.71	-6.35	-4.1	-3.07	-5.77	-6.81	-7.74	
	30	-11.62	-11.46	-9.57	-8.31	-5.31	-5.3	-6.03	-4.9	-4.21	-3.13	-6.09	-6.21	-7.74	
	45	-11.62	-11.39	-9.96	-7.75	-5.77	-5.72	-5.86	-4.23	-5.15	-3.69	-5.82	-5.62	-7.74	
	60	-11.62	-11.26	-9.54	-7.26	-5.79	-7	-6.14	-4.35	-6.92	-3.99	-5.44	-5.06	-7.74	
	75	-11.62	-11.03	-9.56	-7.52	-6.78	-7.63	-6.82	-5.07	-8.88	-4.55	-5.79	-4.95	-7.74	
	90	-11.62	-10.51	-9	-7.3	-6.63	-9.16	-7.03	-5.13	-10.39	-4.47	-5.26	-5.02	-7.74	
	105	-11.62	-10.34	-8.74	-6.97	-6.35	-8.46	-6.92	-5.39	-9.31	-4.39	-5.29	-5.19	-7.74	
	120	-11.62	-10.57	-9.22	-7.7	-5.91	-6.89	-7.07	-4.99	-7.18	-4.26	-4.92	-5.53	-7.74	
	135	-11.62	-10.35	-9.67	-7.5	-5.22	-5.58	-6.52	-5.05	-5.04	-3.65	-5.2	-6.27	-7.74	
	150	-11.62	-10.84	-10.1	-7.8	-5.03	-4.44	-5.77	-5.71	-4.26	-3.43	-4.88	-7.3	-7.74	
	165	-11.62	-10.59	-10.01	-8.16	-5.17	-4.44	-6.21	-6.2	-4.02	-3.29	-4.93	-7.96	-7.74	
	180	-11.62	-10.81	-10.66	-7.6	-4.91	-4.91	-7.21	-7.53	-4.05	-3.24	-5	-9.28	-7.74	
	195	-11.62	-11.44	-10.56	-7.31	-5.23	-5.46	-9.51	-8.56	-4.03	-3.4	-5.42	-10.58	-7.74	
	210	-11.62	-11.71	-10.38	-7.58	-5.36	-6.17	-11.77	-9.37	-4.49	-3.06	-5.68	-10.92	-7.74	
	225	-11.62	-12.66	-11.3	-8.1	-6.15	-6.56	-11.8	-9.21	-3.83	-2.83	-5.99	-10.98	-7.74	
	240	-11.62	-12.77	-11.51	-8.39	-7.07	-6.59	-12.89	-8.7	-4.22	-2.75	-6.22	-11.74	-7.74	
	255	-11.62	-13.59	-12.69	-9.09	-7.52	-6.62	-12.87	-9.24	-3.84	-2.66	-5.71	-12.1	-7.74	
	270	-11.62	-12.97	-13.33	-9.7	-8.1	-6.77	-13.45	-9.52	-3.8	-2.67	-6.06	-12.17	-7.74	
	285	-11.62	-13.4	-12.85	-9.7	-8.16	-7.22	-12.52	-8.54	-3.76	-2.69	-6.04	-11.49	-7.74	
	300	-11.62	-13.09	-13.06	-9.77	-7.85	-7.4	-13.2	-8.32	-3.93	-2.64	-6.29	-10.9	-7.74	
	315	-11.62	-12.64	-12.56	-9.22	-7.65	-8.44	-13.51	-7.98	-4.24	-3.09	-6.67	-9.86	-7.74	
	330	-11.62	-11.77	-11.74	-8.78	-7.42	-8.98	-14.35	-8.55	-4.71	-2.97	-6.68	-9.81	-7.74	
	345	-11.62	-12.52	-11.83	-8.22	-6.89	-8.41	-12.53	-8.56	-4.78	-3.42	-6.64	-8.33	-7.74	
	360	-11.62	-11.72	-10.61	-8.2	-6.16	-7.3	-9.16	-7.76	-4.77	-3.14	-6.06	-8.25	-7.74	

Theta	Frequency	2400	2440	2480
	Point Values			
	Ant. Port I	0	0	0
	Tot. Rad. I	-8.05909	-6.82416	-7.67892
	Peak EIRP	-3.32857	-1.98564	-2.70801
	Directivity	4.73051	4.83852	4.97091
	Efficiency	-8.05909	-6.82416	-7.67892
	Efficiency	15.6348	20.7771	17.0651
	Gain (dBi)	-3.32857	-1.98564	-2.70801
	NHPRP 厡	-9.6582	-8.41346	-9.19465
	NHPRP 厡	-12.0333	-10.7845	-11.4205
	NHPRP 厡	-13.7588	-12.5245	-13.0655
	Upper Hen	-12.6122	-11.5142	-12.3608
	Lower Her	-9.93332	-8.62625	-9.48519
	NHPRP4 /	-1.59911	-1.5893	-1.51573
	NHPRP4 /	69.1972	69.3538	70.5386
	Near Horz.	-8.15305	-6.90831	-7.6895
	NHPRP6 /	-3.97421	-3.96037	-3.74163
	NHPRP6 /	40.0478	40.1757	42.251
	Near Horz.	-9.023	-7.77423	-8.41025
	NHPRP8 /	-5.69968	-5.70031	-5.38663
	NHPRP8 /	26.9173	26.9134	28.9293
	Near Horz.	-9.58716	-8.35287	-8.89394
	UHPRP / 厡	-4.55308	-4.69001	-4.6819
	UHPRP / 厡	35.0503	33.9625	34.026
	Upper Hen	-9.60187	-8.50387	-9.35052
	LHPRP / 厡	-1.87423	-1.80209	-1.80627
	LHPRP / 厡	64.9497	66.0375	65.974
	Lower Her	-6.92302	-5.61595	-6.47489
	Front/Back	6.70463	7.01006	6.28551
	Phi BW (?)	109	109	106
	+ Phi BW	56	57	49
	- Phi BW (	53	52	57
	Theta BW	37	37	35
	+ Th. BW	14	14	13
	- Th. BW (	23	23	22
	Boresight l	240	240	300
	Boresight 厡	135	135	135
	Maximum	-3.32857	-1.98564	-2.70801
	Minimum	-38.4441	-43.7434	-30.3074
	Average P	-8.54184	-7.29395	-8.17033
	Max/Min P	35.1155	41.7577	27.5994
	Max/Avg l	5.21326	5.30831	5.46233
	Min/Avg F	-29.9022	-36.4494	-22.1371
	Average G	-8.05909	-6.82416	-7.67892
	E-Plane B'	37	38	35
	+ E-Plane	14	15	13
	- E-Plane l	23	23	22
	H-Plane B'	108	106	109
	+ H-Plane	50	51	44
	- H-Plane l	58	55	65
Phi	Frequency	2400	2440	2480
	Point Values			
	Ant. Port I	0	0	0
	Tot. Rad. I	-13.6972	-11.8701	-12.4953
	Peak EIRP	-7.68545	-5.41771	-6.42976
	Directivity	6.01172	6.45237	6.0655
	Efficiency	-13.6972	-11.8701	-12.4953
	Efficiency	4.26858	6.50118	5.62954
	Gain (dBi)	-7.68545	-5.41771	-6.42976
	NHPRP 厡	-14.6598	-12.7447	-13.3234
	NHPRP 厡	-16.2026	-14.1591	-14.6838
	NHPRP 厡	-17.4314	-15.3116	-15.8479
	Upper Hen	-16.4388	-14.7923	-15.4166
	Lower Her	-16.9939	-14.9703	-15.5964
	NHPRP4 /	-0.96265	-0.87465	-0.82812
	NHPRP4 /	80.1189	81.7589	82.6396
	Near Horz.	-13.1547	-11.2396	-11.8182
	NHPRP6 /	-2.50544	-2.28907	-2.18857
	NHPRP6 /	56.1637	59.0328	60.4148
	Near Horz.	-13.1923	-11.1488	-11.6735
	NHPRP8 /	-3.73421	-3.4415	-3.35266
	NHPRP8 /	42.3232	45.2741	46.2098
	Near Horz.	-13.2598	-11.14	-11.6763
	UHPRP / 厡	-2.74162	-2.9222	-2.92134
	UHPRP / 厡	53.191	51.0247	51.0348
	Upper Hen	-13.4285	-11.782	-12.4063
	LHPRP / 厡	-3.29671	-3.10023	-3.10112
	LHPRP / 厡	46.809	48.9753	48.9652
	Lower Her	-13.9836	-11.96	-12.5861
	Front/Back	21.0344	27.813	17.6095
	Phi BW (?)	62	58	62
	+ Phi BW	35	35	38
	- Phi BW (	27	23	24
	Theta BW	105	91	94
	+ Th. BW	65	62	65
	- Th. BW (	40	29	29

	Boresight l	150	150	150
	Boresight °	75	75	75
	Maximum	-7.68545	-5.41771	-6.42976
	Minimum	-45.055	-43.7434	-45.7943
	Average P ₁	-14.5294	-12.7422	-13.3077
	Max/Min I	37.3696	38.3257	39.3645
	Max/Avg I	6.84398	7.32451	6.87798
	Min/Avg I	-30.5256	-31.0011	-32.4866
	Average G	-13.6972	-11.8701	-12.4953
	E-Plane B ⁰	105	91	94
	+ E-Plane	38	26	28
	- E-Plane I	67	65	66
	H-Plane B ⁰	60	57	60
	+ H-Plane	25	22	22
	- H-Plane I	35	35	38
Total	Frequency	2400	2440	2480
	Point Values			
	Ant. Port I	0	0	0
	Tot. Rad. I	-7.01074	-5.64184	-6.44077
	Peak EIRP	-3.19644	-1.89242	-2.64039
	Directivity	3.8143	3.74941	3.80038
	Efficiency	-7.01074	-5.64184	-6.44077
	Efficiency	19.9033	27.2782	22.6946
	Gain (dBi)	-3.19644	-1.89242	-2.64039
	NHPRP 厡	-8.46528	-7.04983	-7.77552
	NHPRP 厡	-10.6254	-9.14169	-9.74234
	NHPRP 厡	-12.2076	-10.6879	-11.2273
	Upper Hen	-11.1067	-9.8407	-10.615
	Lower Her	-9.15324	-7.71994	-8.53406
	NHPRP4 /	-1.45454	-1.408	-1.33474
	NHPRP4 /	71.5395	72.3103	73.5403
	Near Horz.	-6.96013	-5.54468	-6.27037
	NHPRP6 /	-3.6147	-3.49985	-3.30157
	NHPRP6 /	43.5041	44.6699	46.7566
	Near Horz.	-7.61514	-6.13139	-6.73204
	NHPRP8 /	-5.19686	-5.04604	-4.78655
	NHPRP8 /	30.2214	31.2893	33.2158
	Near Horz.	-8.036	-6.51628	-7.05572
	UHPRP / °	-4.09594	-4.19886	-4.17424
	UHPRP / °	38.9409	38.0289	38.2451
	Upper Hen	-8.09638	-6.8304	-7.60471
	LHPRP / °	-2.1425	-2.07811	-2.09329
	LHPRP / °	61.0591	61.9711	61.7549
	Lower Her	-6.14294	-4.70964	-5.52376
	Front/Back	4.6289	4.56228	5.05646
	Phi BW (°)	119	121	117
	+ Phi BW	57	58	60
	- Phi BW (°)	62	63	57
	Theta BW	37	37	37
	+ Th. BW	14	14	14
	- Th. BW (°)	23	23	23
	Boresight l	240	240	300
	Boresight °	135	135	135
	Maximum	-3.19644	-1.89242	-2.64039
	Minimum	-14.6258	-13.7541	-14.349
	Average P ₁	-7.56612	-6.20419	-7.00964
	Max/Min I	11.4293	11.8617	11.7087
	Max/Avg I	4.36968	4.31177	4.36925
	Min/Avg I	-7.05967	-7.54991	-7.3394
	Average G	-7.01074	-5.64184	-6.44077
	E-Plane B ⁰	38	38	37
	+ E-Plane	15	15	14
	- E-Plane I	23	23	23
	H-Plane B ⁰	118	117	112
	+ H-Plane	67	65	47
	- H-Plane I	51	52	65