



DO-incorporation

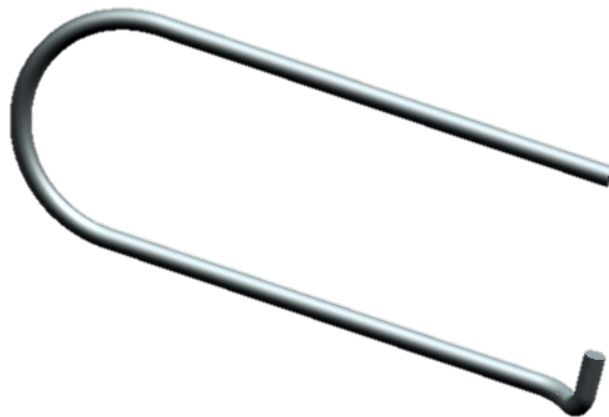


Part No. DA0001
Product: 2.4GHz
Wire Antenna

Part No. DA0001

WLAN / BT / Zigbee Embedded Wire Antenna

Supports: Wi-Fi applications, Agriculture, Automotive, Bluetooth, Zigbee, WLAN, Smart Home



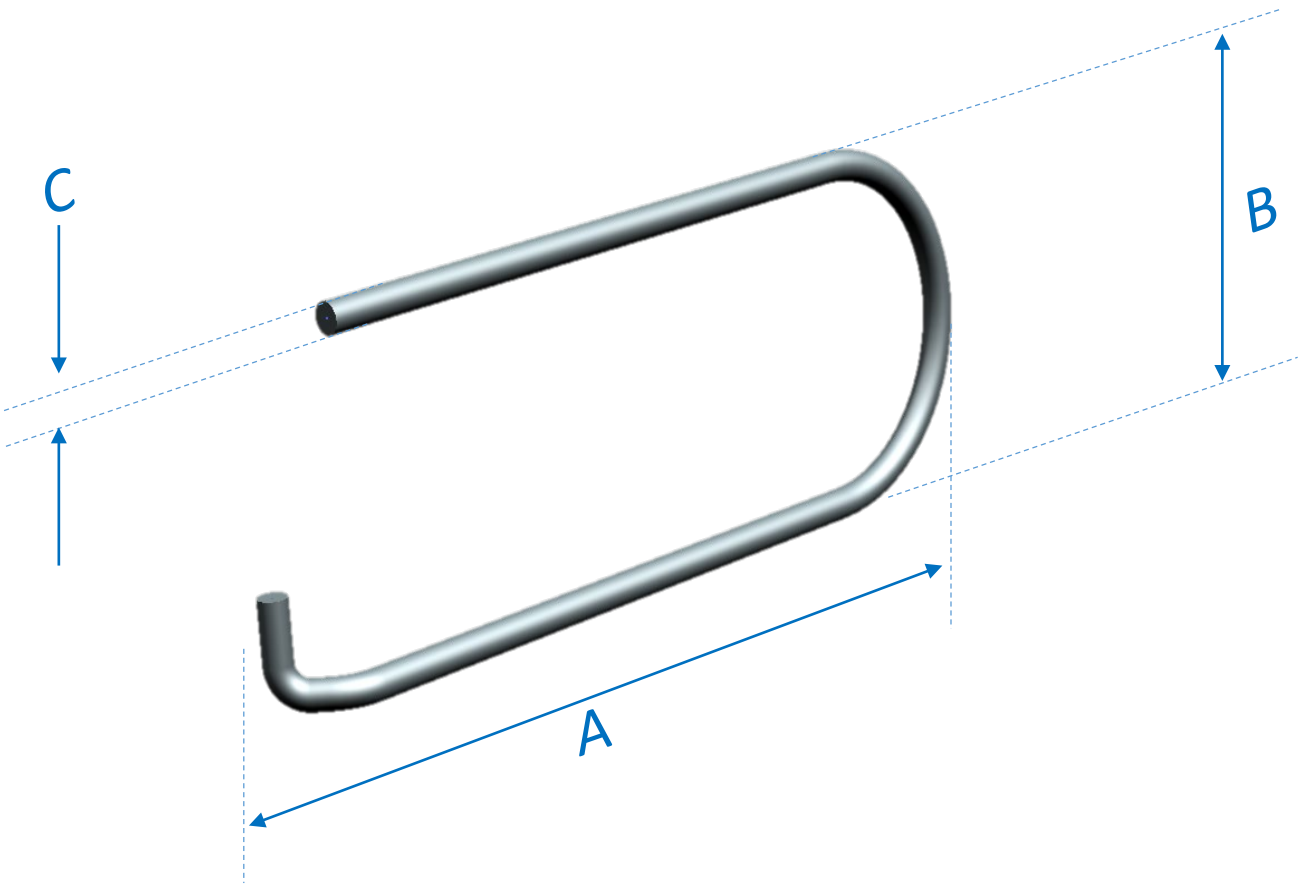
ITEM	ANT SPEC					
Part Number	DA0001					
Part Name	2.4GHz Wire Antenna					
Center Frequency	Horizontal			Vertical		
	2400MHz	2450MHz	2500MHz	2400MHz	2450MHz	2500MHz
	-4.42 dBi	-3.78 dBi	-4.39 dBi	-5.17 dBi	-4.50 dBi	-4.76 dBi
MAX Gain	3.78 dBi					
Polarization	Horizontal and Vertical					
Azimuth Beam Pattern	Omni-directional					
Impedance	50 Ohm					
Antenna Length	31.65mm					
ANT Test Labs	한국전파진흥협회 전자파기술원					
Manufacture	DO-incorporation					

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Antenna Dimensions

Typical antenna dimensions (mm)

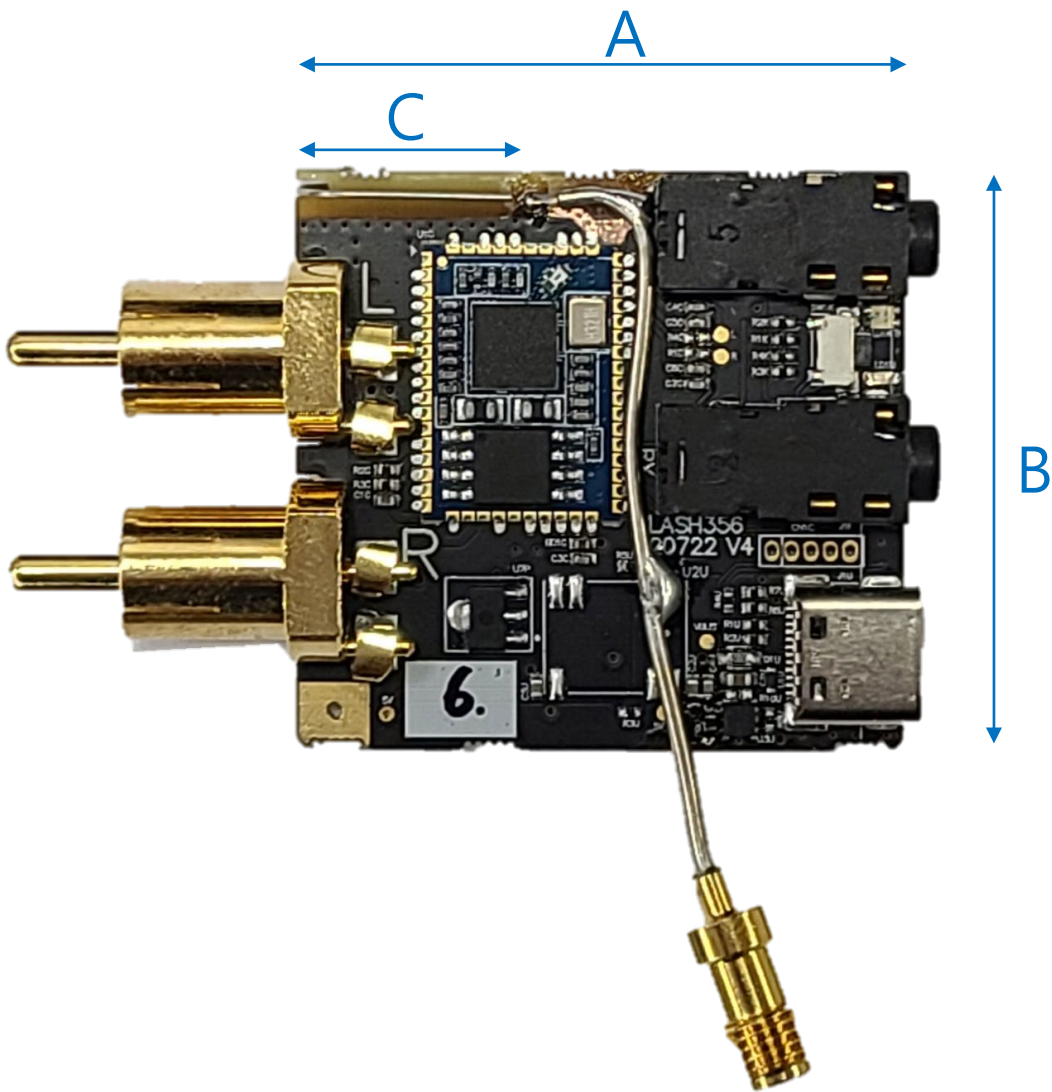
Part Number	A(mm)	B(mm)	C(mm)
DA0001	15.3mm	6.0mm	0.5mm



Antenna Test Board

Typical antenna dimensions (mm)

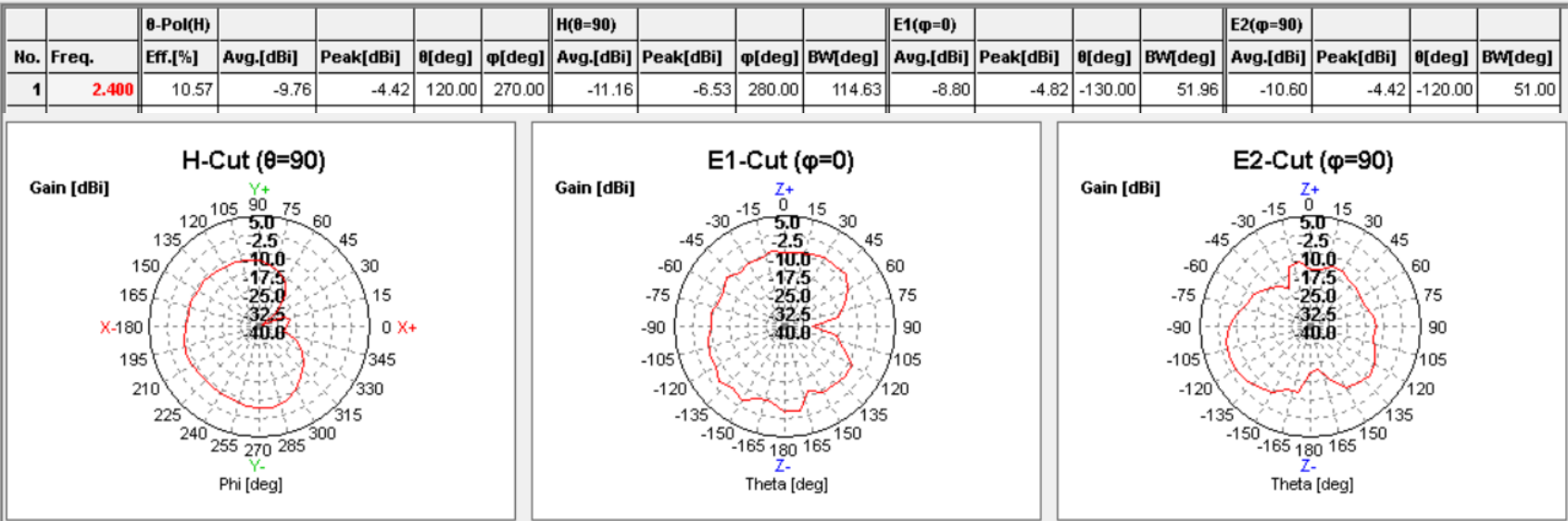
Part Number	A(mm)	B(mm)	C(mm)
DA0001	39.6mm	38.0mm	14.0mm



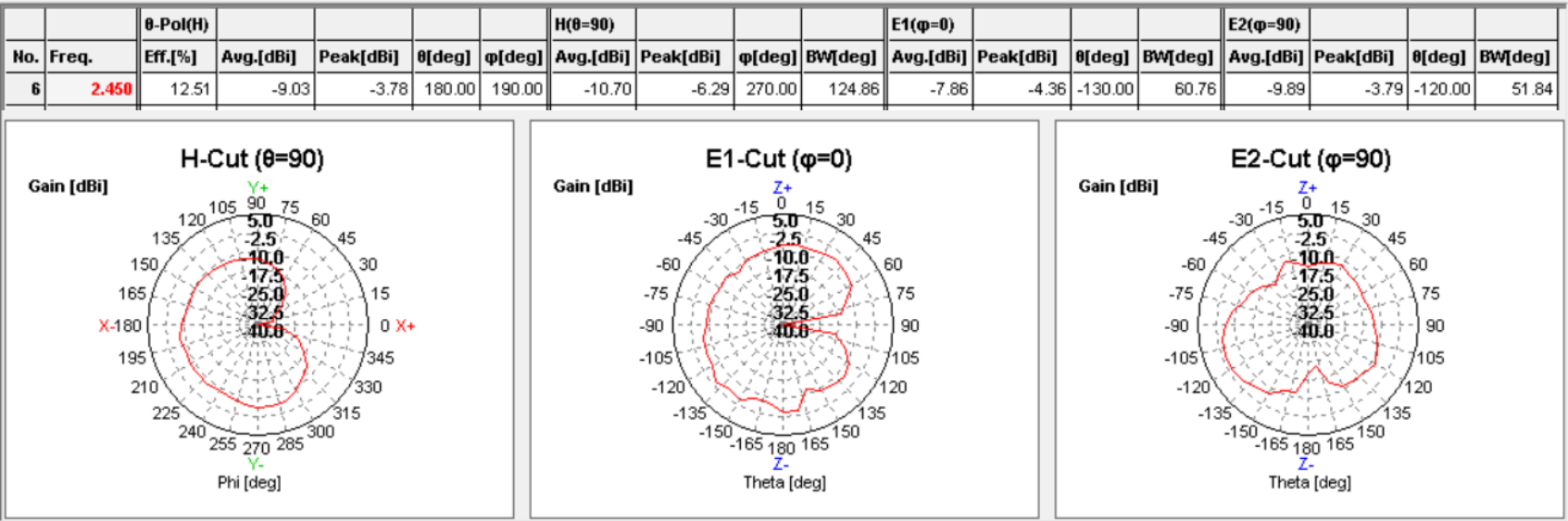
Horizontal

Max: 0 Min: -40 Scale: 5/div

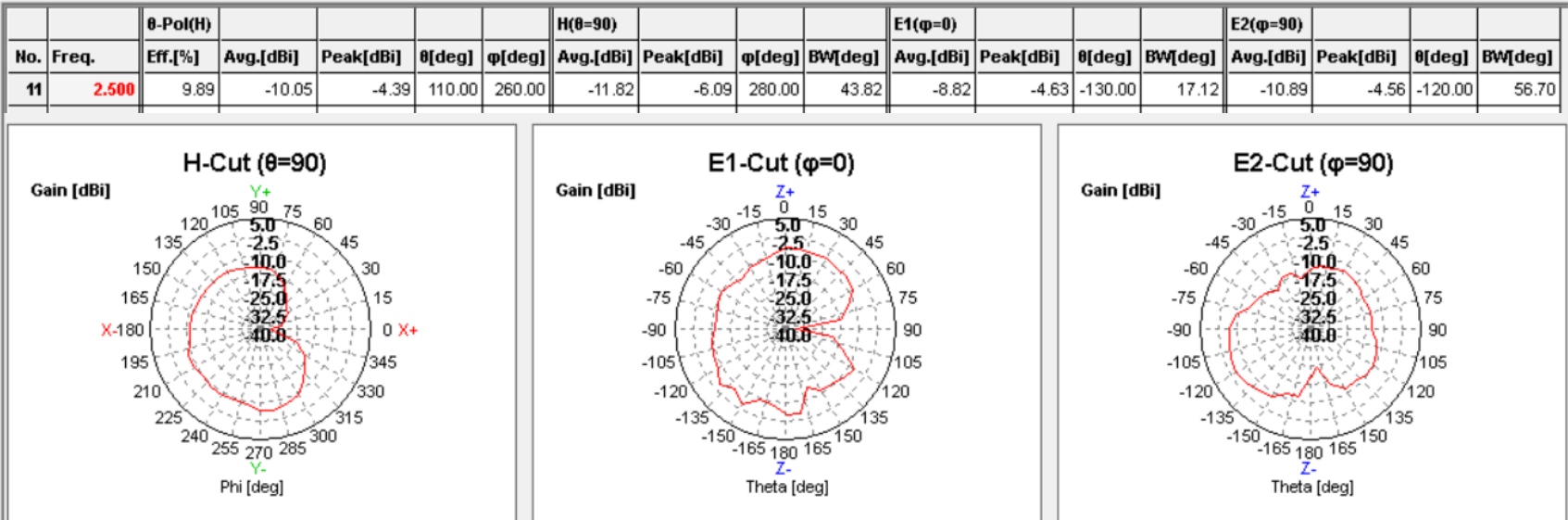
2400 MHz



2450 MHz



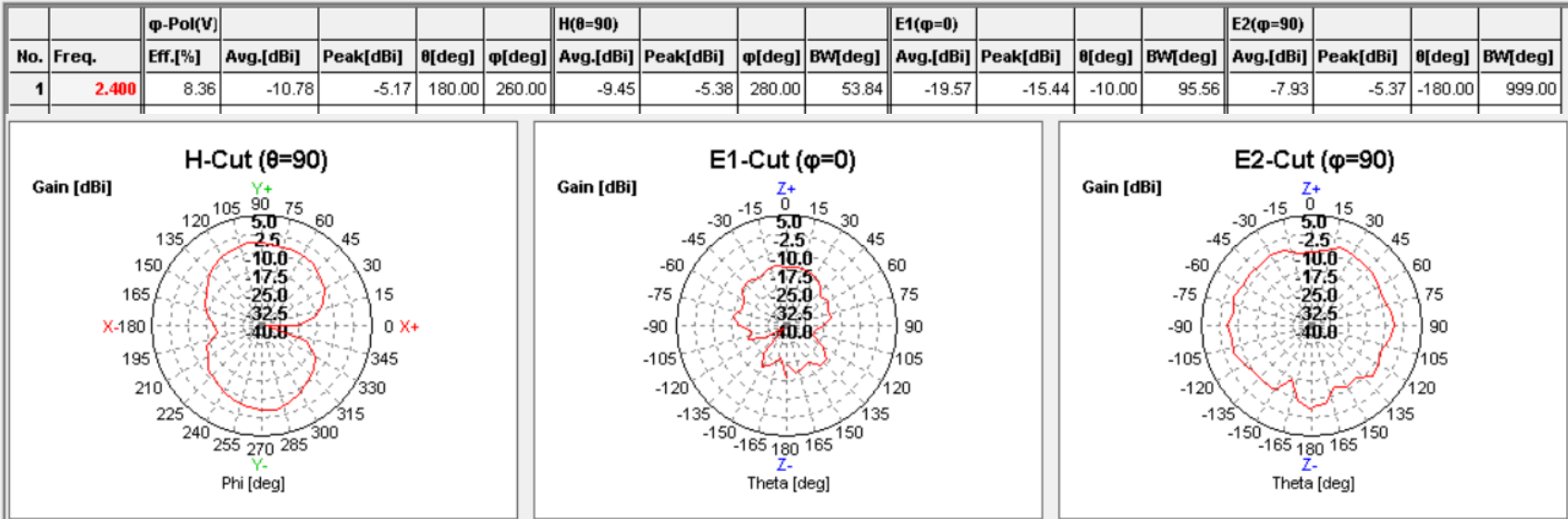
2500 MHz



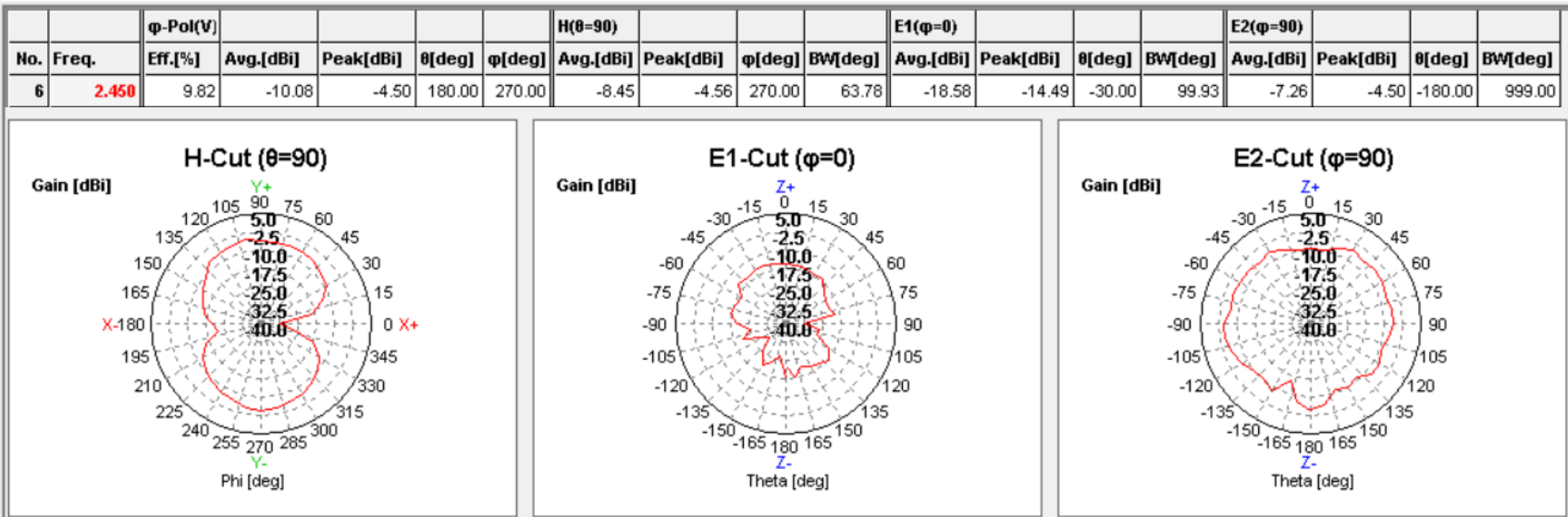
Vertical

Max: 0 Min: -40 Scale: 5/div

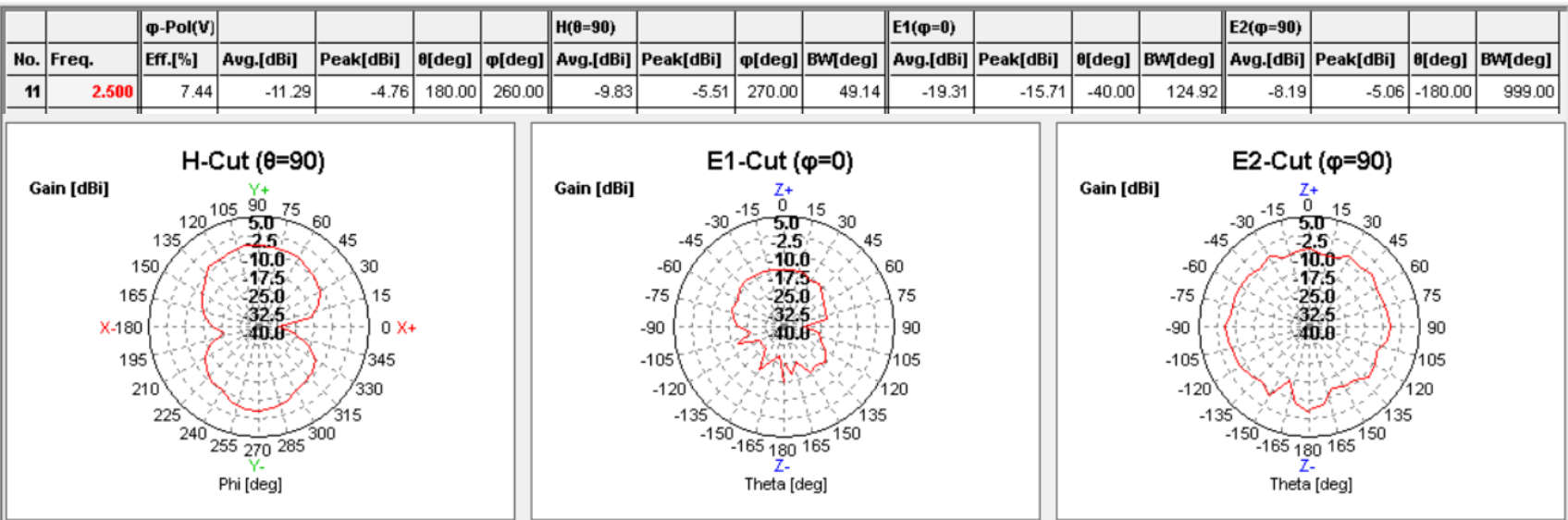
2400 MHz



2450 MHz



2500 MHz



Liner Polarization Type

		θ-Pol(H)					φ-Pol(V)					PwrSum				
No	Freq.[GHz]	Eff.[%]	Avg.[dBi]	Peak[dBi]	θ[deg]	φ[deg]	Eff.[%]	Avg.[dBi]	Peak[dBi]	θ[deg]	φ[deg]	Eff.[%]	Avg.[dBi]	Peak[dBi]	θ[deg]	φ[deg]
1	2.400	10.57	-9.76	-4.42	120.00	270.00	8.36	-10.78	-5.17	180.00	260.00	18.93	-7.23	-2.32	110.00	270.00
2	2.410	12.43	-9.06	-3.25	110.00	270.00	9.80	-10.09	-4.19	180.00	270.00	22.22	-6.53	-1.63	110.00	270.00
3	2.420	11.73	-9.31	-3.68	120.00	270.00	9.20	-10.36	-4.85	180.00	260.00	20.93	-6.79	-2.03	110.00	260.00
4	2.430	12.74	-8.95	-3.52	130.00	180.00	9.78	-10.10	-4.55	180.00	270.00	22.52	-6.47	-1.90	110.00	260.00
5	2.440	14.42	-8.41	-2.66	120.00	270.00	11.17	-9.52	-3.77	90.00	270.00	25.58	-5.92	-1.22	110.00	270.00
6	2.450	12.51	-9.03	-3.78	180.00	190.00	9.82	-10.08	-4.50	180.00	270.00	22.33	-6.51	-1.51	100.00	270.00
7	2.460	10.58	-9.75	-4.26	110.00	270.00	8.24	-10.84	-4.81	90.00	270.00	18.82	-7.25	-2.27	110.00	270.00
8	2.470	11.76	-9.30	-3.38	120.00	270.00	9.22	-10.35	-4.37	180.00	270.00	20.97	-6.78	-1.59	110.00	270.00
9	2.480	10.32	-9.86	-3.79	120.00	260.00	7.94	-11.00	-4.50	180.00	270.00	18.26	-7.38	-2.41	120.00	260.00
10	2.490	11.51	-9.39	-3.77	120.00	280.00	8.77	-10.57	-4.29	180.00	270.00	20.28	-6.93	-2.08	100.00	270.00
11	2.500	9.89	-10.05	-4.39	110.00	260.00	7.44	-11.29	-4.76	180.00	260.00	17.33	-7.61	-2.59	110.00	260.00

Circular Polarization Type

		θ-Pol(H)					φ-Pol(V)					RHCP					LHCP					(-)A.R.
No	Freq.[GHz]	Eff.[%]	Avg.[dBi]	Peak[dBi]	θ[deg]	φ[deg]	Eff.[%]	Avg.[dBi]	Peak[dBi]	θ[deg]	φ[deg]	Eff.[%]	Avg.[dBi]	Pk.[dBic]	θ[deg]	φ[deg]	Eff.[%]	Avg.[dBi]	Pk.[dBic]	θ[deg]	φ[deg]	Peak[dBi]
1	2.400	10.57	-9.76	-4.42	120.00	270.00	8.36	-10.78	-5.17	180.00	260.00	12.02	-9.20	-2.36	110.00	270.00	6.90	-11.61	-5.46	130.00	90.00	-1.77
2	2.410	12.43	-9.06	-3.25	110.00	270.00	9.80	-10.09	-4.19	180.00	270.00	14.04	-8.52	-1.68	100.00	270.00	8.18	-10.87	-4.88	120.00	130.00	-1.11
3	2.420	11.73	-9.31	-3.68	120.00	270.00	9.20	-10.36	-4.85	180.00	260.00	13.23	-8.78	-2.11	100.00	270.00	7.70	-11.14	-5.22	120.00	100.00	-1.32
4	2.430	12.74	-8.95	-3.52	130.00	180.00	9.78	-10.10	-4.55	180.00	270.00	14.31	-8.44	-1.95	110.00	260.00	8.21	-10.86	-5.29	130.00	110.00	-1.83
5	2.440	14.42	-8.41	-2.66	120.00	270.00	11.17	-9.52	-3.77	90.00	270.00	16.31	-7.88	-1.32	100.00	270.00	9.27	-10.33	-4.58	120.00	120.00	-1.10
6	2.450	12.51	-9.03	-3.78	180.00	190.00	9.82	-10.08	-4.50	180.00	270.00	14.12	-8.50	-1.55	100.00	270.00	8.21	-10.86	-4.84	130.00	110.00	-1.54
7	2.460	10.58	-9.75	-4.26	110.00	270.00	8.24	-10.84	-4.81	90.00	270.00	11.98	-9.21	-2.35	110.00	270.00	6.84	-11.65	-5.75	120.00	130.00	-2.38
8	2.470	11.76	-9.30	-3.38	120.00	270.00	9.22	-10.35	-4.37	180.00	270.00	13.43	-8.72	-1.65	110.00	270.00	7.54	-11.22	-4.68	120.00	100.00	-2.04
9	2.480	10.32	-9.86	-3.79	120.00	260.00	7.94	-11.00	-4.50	180.00	270.00	11.78	-9.29	-2.66	110.00	270.00	6.48	-11.88	-5.74	120.00	120.00	-2.63
10	2.490	11.51	-9.39	-3.77	120.00	280.00	8.77	-10.57	-4.29	180.00	270.00	13.11	-8.82	-2.11	100.00	270.00	7.17	-11.44	-5.56	120.00	110.00	-1.38
11	2.500	9.89	-10.05	-4.39	110.00	260.00	7.44	-11.29	-4.76	180.00	260.00	11.20	-9.51	-2.77	110.00	260.00	6.13	-12.13	-5.91	130.00	100.00	-3.56