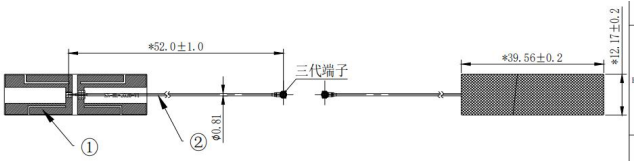


Project Overview:	WIFI Dual-band Antenna Test
Verification Results:	WIFI Antenna Verification Results
Manufacturer:	Sinan Microelectronics (Shenzhen) Co., Ltd.
Address:	Room 302, Jinfulai Comprehensive Building, No.49-1 Dabao Road, Dalang Community, Xin'an
Antenna Name:	SN-BL-2020-V1
Antenna Type:	2.4G/5G Dual-band FPC Antenna

Complete machine



Antenna dimension drawing



unit : mm

Antenna impedance diagram (S11+SMITH)

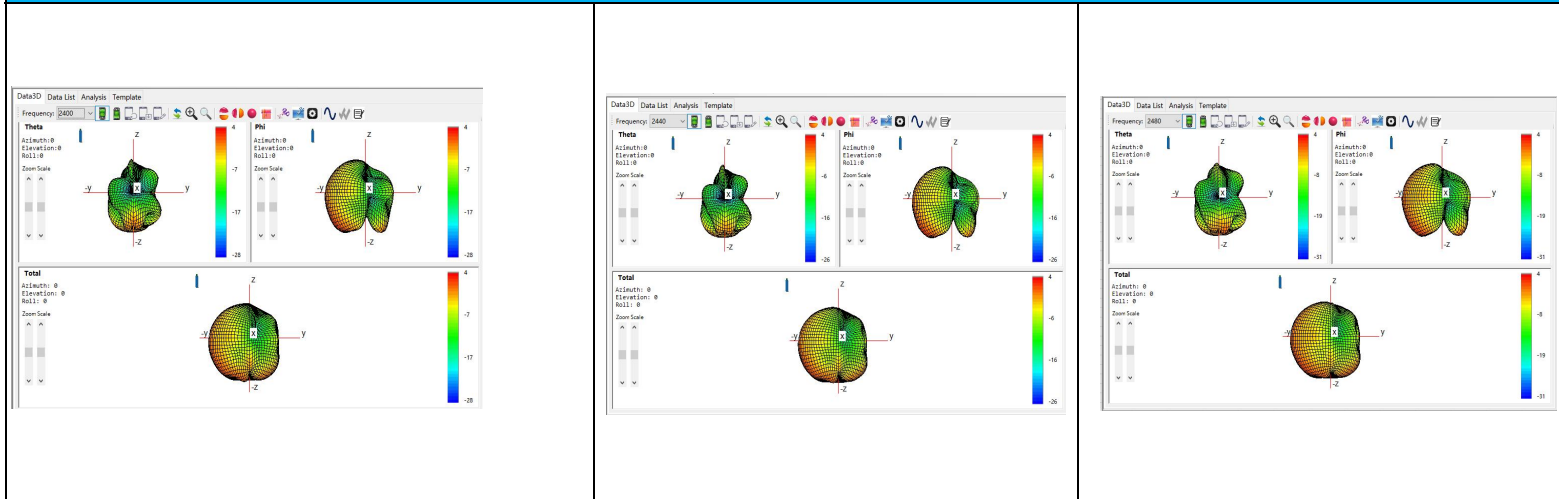


Passive Test							
Freq	Effi	Effi	Gain	Freq	Effi	Effi	Gain
(MHz)	(%)	(dB)	(dBi)	(MHz)	(%)	(dB)	(dBi)
2400	53.44	-2.72	3	5450	63.21	-1.99	4.03
2410	55.85	-2.53	3.27	5460	62.18	-2.06	3.85
2420	53.86	-2.69	3.08	5470	59.19	-2.28	3.65
2430	54.26	-2.66	3.1	5480	61.74	-2.09	3.81
2440	54.97	-2.6	3.13	5490	62.78	-2.02	3.89
2450	56.01	-2.52	3.19	5500	61.27	-2.13	3.85
2460	55.42	-2.56	3.09	5510	60.73	-2.17	3.81
2470	55.5	-2.56	3.14	5520	60.48	-2.18	3.85
2480	55.16	-2.58	3.07	5530	61.11	-2.14	3.82
2490	54.42	-2.64	3.07	5540	64.73	-1.89	4.14
2500	53.42	-2.72	3.01	5550	66.12	-1.8	4.3
5100	57.49	-2.4	3.48	5560	64.39	-1.91	4.16
5110	57.66	-2.39	3.53	5570	63.8	-1.95	4.22
5120	57.36	-2.41	3.5	5580	63.67	-1.96	4.18
5130	58.29	-2.34	3.57	5590	67.43	-1.71	4.49
5140	58.4	-2.34	3.59	5600	68.15	-1.67	4.54
5150	57.7	-2.39	3.53	5610	66.22	-1.79	4.28
5160	58.75	-2.31	3.59	5620	65.34	-1.85	4.3
5170	59.95	-2.22	3.66	5630	62.73	-2.02	3.99
5180	60.4	-2.19	3.67	5640	63.57	-1.97	4.05
5190	61.25	-2.13	3.7	5650	67.89	-1.68	4.25
5200	60.94	-2.15	3.62	5660	66.16	-1.79	4.13
5210	61.12	-2.14	3.59	5670	62.6	-2.03	3.95
5220	60.73	-2.17	3.57	5680	60.7	-2.17	3.71
5230	61.43	-2.12	3.61	5690	60.03	-2.22	3.72
5240	63.46	-1.98	3.77	5700	63.48	-1.97	3.91
5250	63.59	-1.97	3.8	5710	64.29	-1.92	3.98
5260	61.24	-2.13	3.66	5720	60.97	-2.15	3.71
5270	61.3	-2.13	3.68	5730	60.95	-2.15	3.68
5280	61.75	-2.09	3.75	5740	60.62	-2.17	3.68
5290	61.41	-2.12	3.8	5750	61.74	-2.09	3.63
5300	60.35	-2.19	3.81	5760	66.09	-1.8	3.99
5310	59.75	-2.24	3.86	5770	62.72	-2.03	3.68
5320	59.79	-2.23	3.91	5780	58.14	-2.36	3.36
5330	59.53	-2.25	3.99	5790	59.08	-2.29	3.45
5340	59.89	-2.23	4.05	5800	61.27	-2.13	3.5
5350	61.75	-2.09	4.25	5810	65.17	-1.86	3.81
5360	61.53	-2.11	4.3	5820	63.27	-1.99	3.57
5370	60.7	-2.17	4.2	5830	60.06	-2.21	3.37
5380	64.23	-1.92	4.45	5840	62.86	-2.02	3.56
5390	65.65	-1.83	4.48	5850	63.89	-1.95	3.57
5400	65.07	-1.87	4.42	5860	63.97	-1.94	3.61
5410	64.87	-1.88	4.36	5870	64.25	-1.92	3.57
5420	65.34	-1.85	4.24	5880	60.04	-2.22	3.32

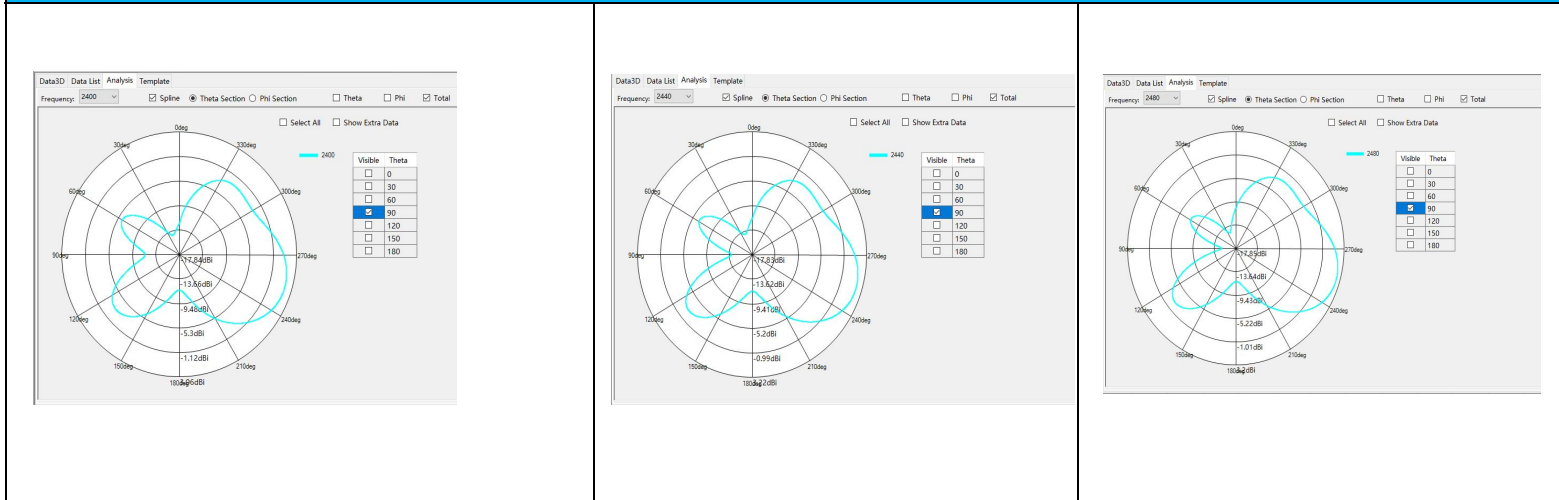
5430	65.12	-1.86	4.27	5890	59.52	-2.25	3.21
5440	64.31	-1.92	4.08	5900	61.98	-2.08	3.4

Antenna Field Strength Pattern

3D



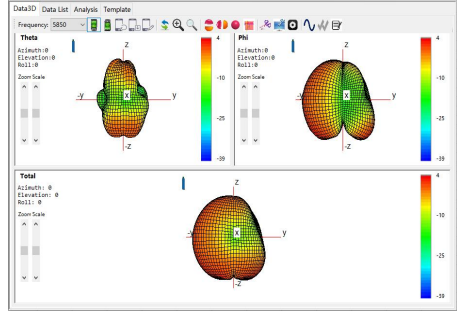
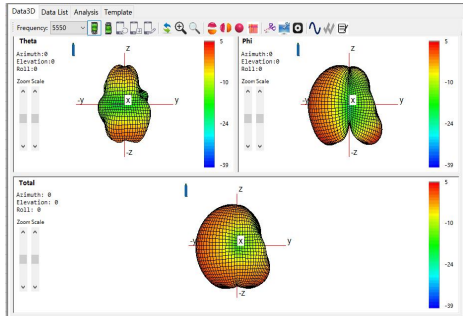
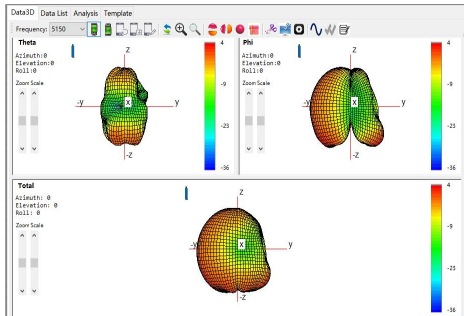
2D



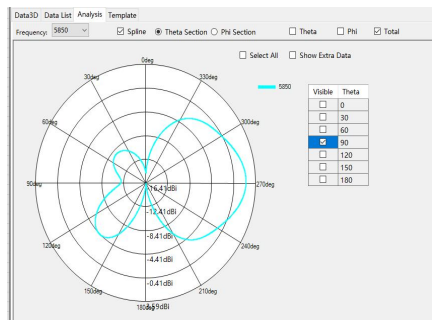
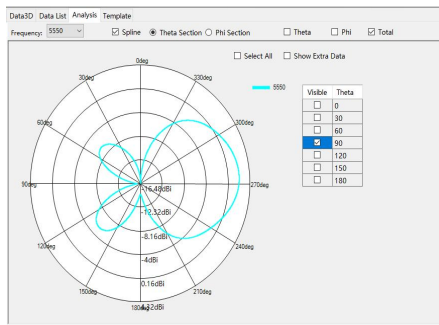
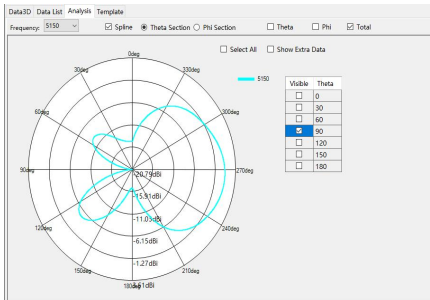
2. 4G

Antenna Field Strength Pattern

3D



2D



5G

