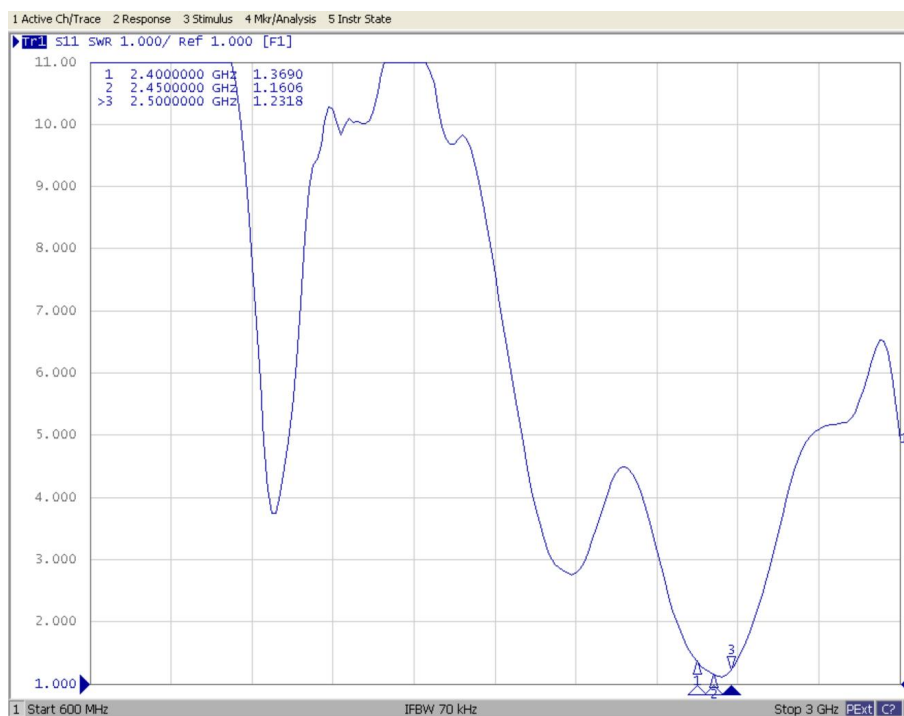


OTA Passive Efficiency&Gain Test:

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	60.89	-2.15	2.99
2410	61.54	-2.11	3.06
2420	62.11	-2.07	3.05
2430	62.17	-2.06	3.03
2440	62.06	-2.07	2.83
2450	61.36	-2.12	2.75
2460	60.78	-2.16	2.63
2470	60.3	-2.2	2.56
2480	56.14	-2.51	2.18
2490	54.23	-2.66	2.06
2500	53.42	-2.72	2.06

4、 Attachment chart

4.1 VSWR parameter diagram



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5、BT antenna active parameters (0 channel)--TRP

Azimuths	2.402 GHz -150 Total	2.402 GHz -120 Total	2.402 GHz -90 Total	2.402 GHz -60 Total	2.402 GHz -30 Total	2.402 GHz 0 Total	2.402 GHz 30 Total	2.402 GHz 60 Total	2.402 GHz 90 Total	2.402 GHz 120 Total	2.402 GHz 150 Total
0	5.51	8.25	5.38	3.09	5.11	5.49	2.27	-7.27	0.53	0.02	0.16
30	3.81	5.25	4.07	-2.6	2	5.54	6.4	2.04	0.29	4.32	6.05
60	2.94	3.38	3.46	-6.31	-2.65	5.87	8.51	5.77	3.73	8.61	8.89
90	4.2	-1.64	4.98	3.38	-9.33	5.98	9.57	7.07	5.06	10.86	9.77
120	3.76	-1.59	5.68	5.06	-9.82	5.76	9.22	6.59	4.69	11.16	9.09
150	-1.45	-1.73	3.09	-0.58	-4.93	5.82	7.68	4.87	5.2	10.29	7.4
180	0.16	0.02	0.53	-7.27	2.27	5.49	5.11	3.09	5.38	8.25	5.51
210	6.05	4.32	0.29	2.04	6.4	5.54	2	-2.6	4.07	5.25	3.81
240	8.89	8.61	3.73	5.77	8.51	5.87	-2.65	-6.31	3.46	3.38	2.94
270	9.77	10.86	5.06	7.07	9.57	5.98	-9.33	3.38	4.98	-1.64	4.2
300	9.09	11.16	4.69	6.59	9.22	5.76	-9.82	5.06	5.68	-1.59	3.76
330	7.4	10.29	5.2	4.87	7.68	5.82	-4.93	-0.58	3.09	-1.73	-1.45

5.1、BT antenna active parameters (0 channel)--TIS

Azimuths	2.402 GHz -150 Total	2.402 GHz -120 Total	2.402 GHz -90 Total	2.402 GHz -60 Total	2.402 GHz -30 Total	2.402 GHz 0 Total	2.402 GHz 30 Total	2.402 GHz 60 Total	2.402 GHz 90 Total	2.402 GHz 120 Total	2.402 GHz 150 Total
0	-92.72	-95.46	-92.59	-90.29	-92.32	-92.7	-89.48	-79.94	-87.74	-87.23	-87.37
30	-91.02	-92.46	-91.28	-84.61	-89.2	-92.75	-93.61	-89.25	-87.5	-91.53	-93.26
60	-90.15	-90.59	-90.67	-80.9	-84.55	-93.08	-95.72	-92.98	-90.94	-95.82	-96.1
90	-91.41	-85.57	-92.19	-90.58	-77.88	-93.19	-96.78	-94.28	-92.27	-98.07	-96.98
120	-90.97	-85.61	-92.89	-92.27	-77.39	-92.96	-96.43	-93.8	-91.9	-98.37	-96.3
150	-85.76	-85.47	-90.3	-86.63	-82.28	-93.03	-94.89	-92.08	-92.41	-97.5	-94.61
180	-87.37	-87.23	-87.74	-79.94	-89.48	-92.7	-92.32	-90.29	-92.59	-95.46	-92.72
210	-93.26	-91.53	-87.5	-89.25	-93.61	-92.75	-89.2	-84.61	-91.28	-92.46	-91.02
240	-96.1	-95.82	-90.94	-92.98	-95.72	-93.08	-84.55	-80.9	-90.67	-90.59	-90.15
270	-96.98	-98.07	-92.27	-94.28	-96.78	-93.19	-77.88	-90.58	-92.19	-85.57	-91.41
300	-96.3	-98.37	-91.9	-93.8	-96.43	-92.96	-77.39	-92.27	-92.89	-85.61	-90.97
330	-94.61	-97.5	-92.41	-92.08	-94.89	-93.03	-82.28	-86.63	-90.3	-85.47	-85.76

5.2、BT antenna active parameters (39 channels)--TRP

Azimuths	2.441 GHz -150 Total	2.441 GHz -120 Total	2.441 GHz -90 Total	2.441 GHz -60 Total	2.441 GHz -30 Total	2.441 GHz 0 Total	2.441 GHz 30 Total	2.441 GHz 60 Total	2.441 GHz 90 Total	2.441 GHz 120 Total	2.441 GHz 150 Total
0	5.25	8.36	4.65	3.89	5.41	5.51	1.72	-4.87	-2.42	0.03	1.04
30	2.06	5.01	3.45	0.21	3.11	5.61	5.53	2.32	-2.3	4.4	6.55
60	0.63	2.47	3.43	-7.42	-0.67	6.02	8.43	5.98	2.47	8.37	8.93
90	2.37	-1.16	5.32	2.95	-6.79	6.05	9.94	7.64	3.49	10.24	9.62
120	3.16	-0.87	5.97	4.59	-8.02	5.9	10.09	7.26	3.77	10.81	9.23
150	-0.97	-0.04	2.62	-2.68	-2.6	5.86	8.48	5.15	4.4	10.1	7.83
180	1.04	0.03	-2.42	-4.87	1.72	5.51	5.41	3.89	4.65	8.36	5.25
210	6.55	4.4	-2.3	2.32	5.53	5.61	3.11	0.21	3.45	5.01	2.06
240	8.93	8.37	2.47	5.98	8.43	6.02	-0.67	-7.42	3.43	2.47	0.63
270	9.62	10.24	3.49	7.64	9.94	6.05	-6.79	2.95	5.32	-1.16	2.37
300	9.23	10.81	3.77	7.26	10.09	5.9	-8.02	4.59	5.97	-0.87	3.16
330	7.83	10.1	4.4	5.15	8.48	5.86	-2.6	-2.68	2.62	-0.04	-0.97

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5.3、BT antenna active parameters (39 channels)--TIS

Azimuths	2.441 GHz -150 Total	2.441 GHz -120 Total	2.441 GHz -90 Total	2.441 GHz -60 Total	2.441 GHz -30 Total	2.441 GHz 0 Total	2.441 GHz 30 Total	2.441 GHz 60 Total	2.441 GHz 90 Total	2.441 GHz 120 Total	2.441 GHz 150 Total
0	-93.12	-96.22	-92.51	-91.76	-93.28	-93.38	-89.59	-82.99	-85.44	-87.89	-88.9
30	-89.92	-92.88	-91.31	-88.07	-90.98	-93.47	-93.39	-90.19	-85.56	-92.27	-94.42
60	-88.49	-90.34	-91.3	-80.45	-87.2	-93.88	-96.3	-93.84	-90.34	-96.23	-96.8
90	-90.23	-86.7	-93.19	-90.82	-81.07	-93.92	-97.81	-95.5	-91.36	-98.11	-97.49
120	-91.03	-87	-93.83	-92.45	-79.85	-93.77	-97.96	-95.13	-91.64	-98.67	-97.09
150	-86.9	-87.83	-90.48	-85.19	-85.27	-93.72	-96.35	-93.01	-92.27	-97.97	-95.7
180	-88.9	-87.89	-85.44	-82.99	-89.59	-93.38	-93.28	-91.76	-92.51	-96.22	-93.12
210	-94.42	-92.27	-85.56	-90.19	-93.39	-93.47	-90.98	-88.07	-91.31	-92.88	-89.92
240	-96.8	-96.23	-90.34	-93.84	-96.3	-93.88	-87.2	-80.45	-91.3	-90.34	-88.49
270	-97.49	-98.11	-91.36	-95.5	-97.81	-93.92	-81.07	-90.82	-93.19	-86.7	-90.23
300	-97.09	-98.67	-91.64	-95.13	-97.96	-93.77	-79.85	-92.45	-93.83	-87	-91.03
330	-95.7	-97.97	-92.27	-93.01	-96.35	-93.72	-85.27	-85.19	-90.48	-87.83	-86.9

5.4、BT antenna active parameters (78 channels)--TRP

Azimuths	2.48 GHz - 150 Total	2.48 GHz - 120 Total	2.48 GHz - 90 Total	2.48 GHz - 60 Total	2.48 GHz - 30 Total	2.48 GHz 0 Total	2.48 GHz 30 Total	2.48 GHz 60 Total	2.48 GHz 90 Total	2.48 GHz 120 Total	2.48 GHz 150 Total
0	4.72	7.62	4.22	2.63	5.44	5.3	-0.28	-4.92	-8.76	-0.89	1.77
30	2.09	3.99	3.34	1.05	3.65	5.52	3.84	1.25	-4.74	2.95	6.58
60	-1.29	1.37	2.93	-6.2	0.96	5.95	7.98	5.1	0.45	6.94	8.42
90	0.69	-1.08	5.24	1.36	-3.47	6.22	10.35	7.47	1.71	9.34	8.58
120	1.59	-0.61	5.68	3.02	-5.5	5.98	10.39	7.27	2.54	9.87	7.99
150	-1.07	-1.06	0.88	-4.77	-2.21	5.98	8.38	4.23	3.62	9.25	7.02
180	1.77	-0.89	-8.76	-4.92	-0.28	5.3	5.44	2.63	4.22	7.62	4.72
210	6.58	2.95	-4.74	1.25	3.84	5.52	3.65	1.05	3.34	3.99	2.09
240	8.42	6.94	0.45	5.1	7.98	5.95	0.96	-6.2	2.93	1.37	-1.29
270	8.58	9.34	1.71	7.47	10.35	6.22	-3.47	1.36	5.24	-1.08	0.69
300	7.99	9.87	2.54	7.27	10.39	5.98	-5.5	3.02	5.68	-0.61	1.59
330	7.02	9.25	3.62	4.23	8.38	5.98	-2.21	-4.77	0.88	-1.06	-1.07

5.5、BT antenna active parameters (78 channels)--TIS

Azimuths	2.48 GHz - 150 Total	2.48 GHz - 120 Total	2.48 GHz - 90 Total	2.48 GHz - 60 Total	2.48 GHz - 30 Total	2.48 GHz 0 Total	2.48 GHz 30 Total	2.48 GHz 60 Total	2.48 GHz 90 Total	2.48 GHz 120 Total	2.48 GHz 150 Total
0	-93.04	-95.93	-92.54	-90.95	-93.75	-93.62	-88.03	-83.39	-79.56	-87.42	-90.08
30	-90.4	-92.3	-91.65	-89.37	-91.97	-93.83	-92.15	-89.56	-83.57	-91.26	-94.9
60	-87.03	-89.68	-91.24	-82.11	-89.27	-94.26	-96.29	-93.41	-88.76	-95.26	-96.73
90	-89.01	-87.24	-93.55	-89.67	-84.84	-94.54	-98.66	-95.78	-90.03	-97.65	-96.89
120	-89.9	-87.7	-93.99	-91.33	-82.82	-94.29	-98.7	-95.58	-90.86	-98.18	-96.31
150	-87.25	-87.25	-89.2	-83.54	-86.11	-94.3	-96.69	-92.54	-91.94	-97.56	-95.33
180	-90.08	-87.42	-79.56	-83.39	-88.03	-93.62	-93.75	-90.95	-92.54	-95.93	-93.04
210	-94.9	-91.26	-83.57	-89.56	-92.15	-93.83	-91.97	-89.37	-91.65	-92.3	-90.4
240	-96.73	-95.26	-88.76	-93.41	-96.29	-94.26	-89.27	-82.11	-91.24	-89.68	-87.03
270	-96.89	-97.65	-90.03	-95.78	-98.66	-94.54	-84.84	-89.67	-93.55	-87.24	-89.01
300	-96.31	-98.18	-90.86	-95.58	-98.7	-94.29	-82.82	-91.33	-93.99	-87.7	-89.9
330	-95.33	-97.56	-91.94	-92.54	-96.69	-94.3	-86.11	-83.54	-89.2	-87.25	-87.25

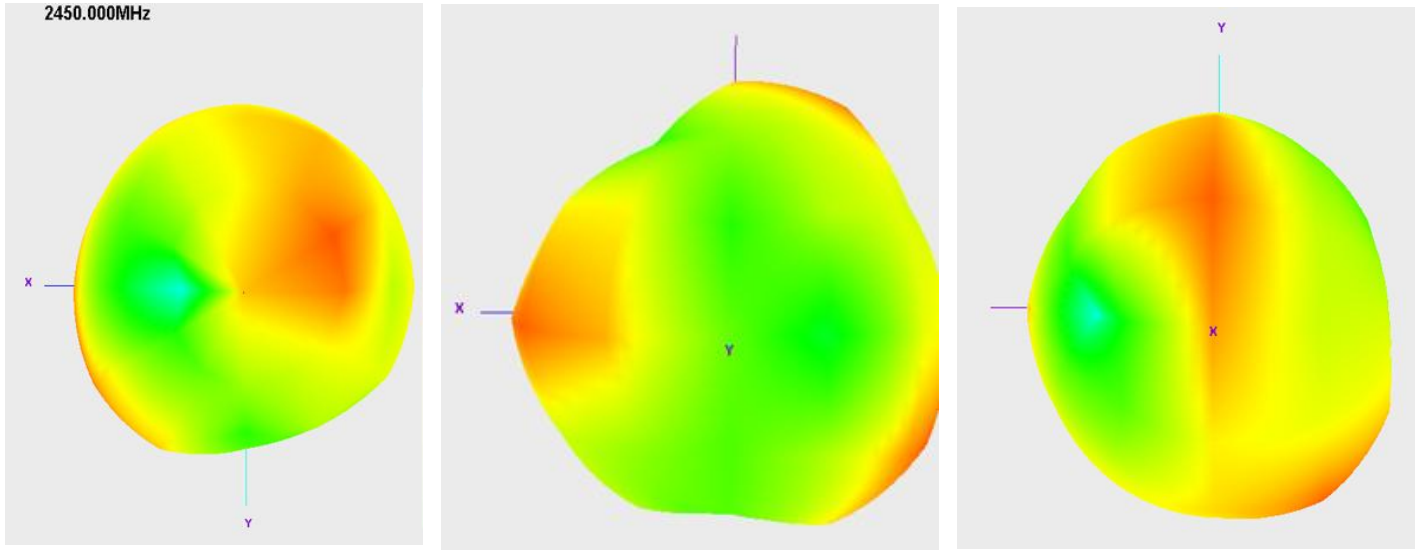
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6、Antenna passive field pattern diagram

Radiation Pattern For BT Antenna (2450MHz) , Peak Gain: 2.75dbi



MIN= -8.6

270°

90°

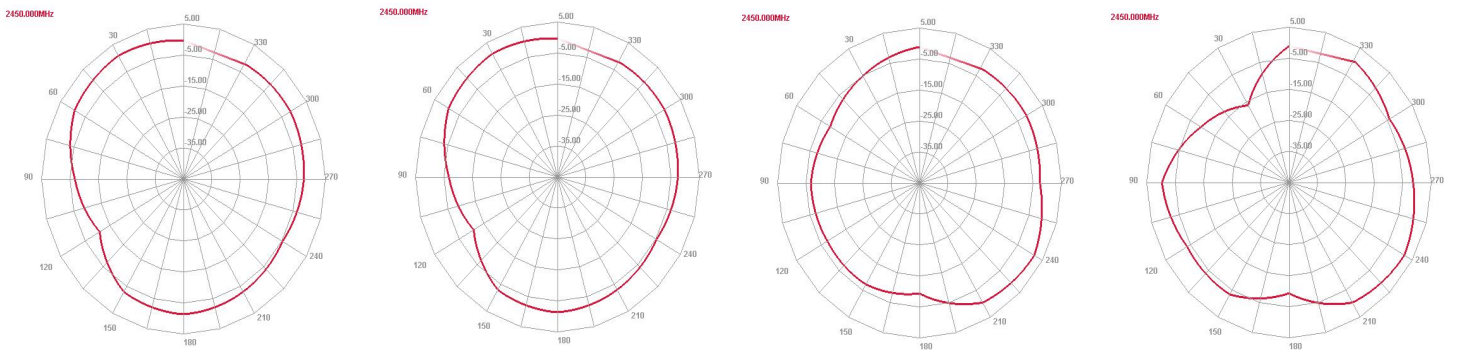
180°

Horizontal

Horizontal

E2 Face

E1 Face



7、 conclusion:

This antenna is designed on the basis of the prototype provided by the customer, electrical parameters and structural performance have reached the technical requirements, please confirm!

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