

Antenna Sample Datasheet

customer:	Raytheon
entry name:	BTE-690
Material category:	BT antenna
edition:	A5-L
Date:	2024. 4. 12

Directory

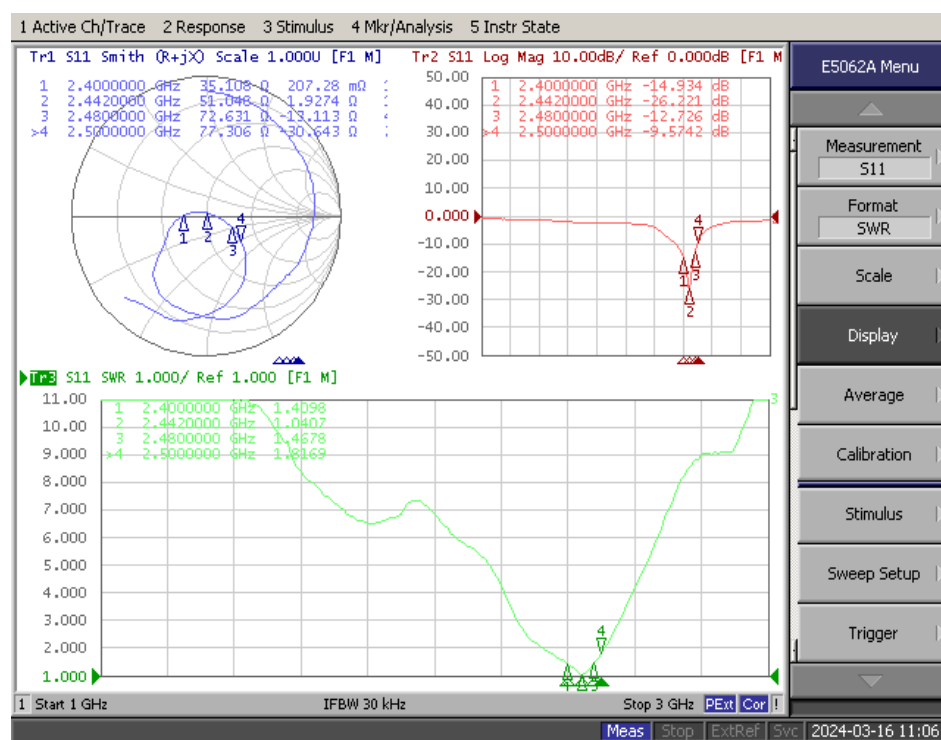
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一：Passive test report

network analyzer(5071B)



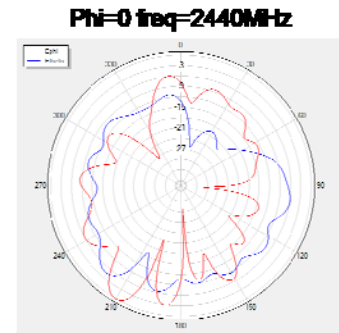
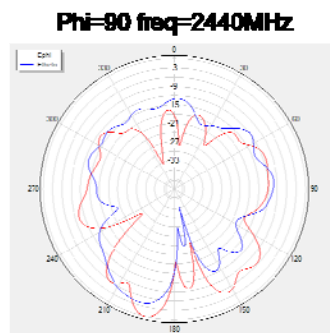
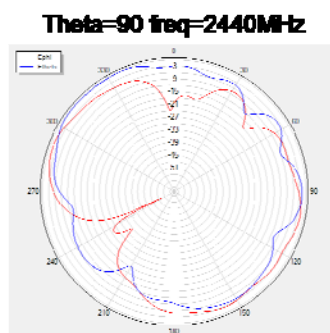
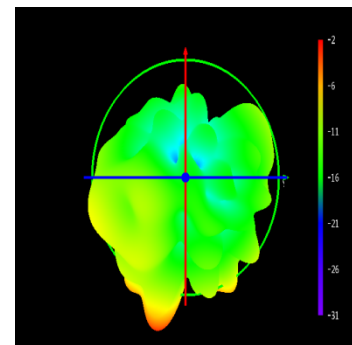
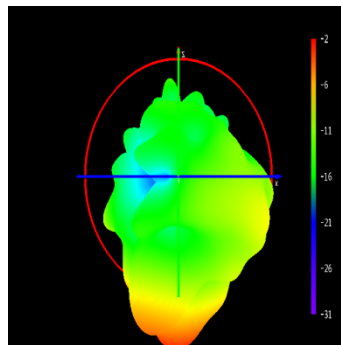
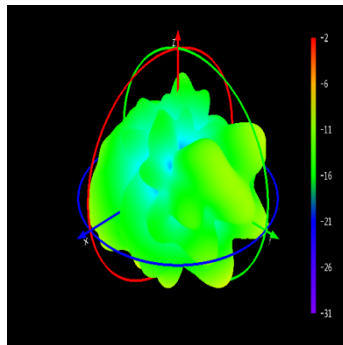
BT antenna S11 parameters



Passive efficiency of antenna

2400-2480MHz				
Freq(MHz)	Gain(dBi)	Efficiency(%)	Gain(dBi)	Efficiency(%)
	free space	free space	Second generation head mold	Second generation head mold
2400	-3.32	33.29	-5.2	14.17
2410	-3.08	34.99	-4.83	14.91
2420	-2.82	37.72	-4.09	15.92
2430	-2.59	39.35	-3.49	17.08
2440	-2.34	38.3	-3.7	16.89
2450	-2.15	37.11	-3.83	16.5
2460	-2.13	36.59	-4.06	15.94
2470	-2.26	35.46	-4.37	15.08
2480	-2.35	33.74	-4.44	14.42

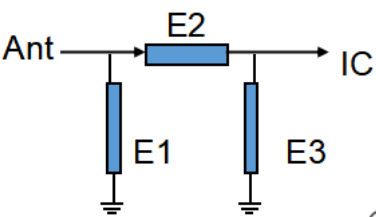
Passive pattern of BT antenna



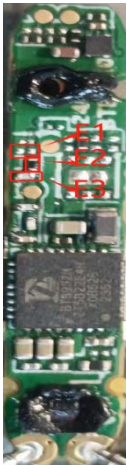
二： BT antenna OTA parameters

BT	Channel	TRP(dBm)	TIS(dBm)
FS	0	5.45	-89.1
	39	6.12	-89.52
	78	5.59	-88.75
BT	Channel	TRP(dBm)	TIS(dBm)
Ear&head	0	0.38	-83.57
	39	0.87	-84.37
	78	0.54	-83.54

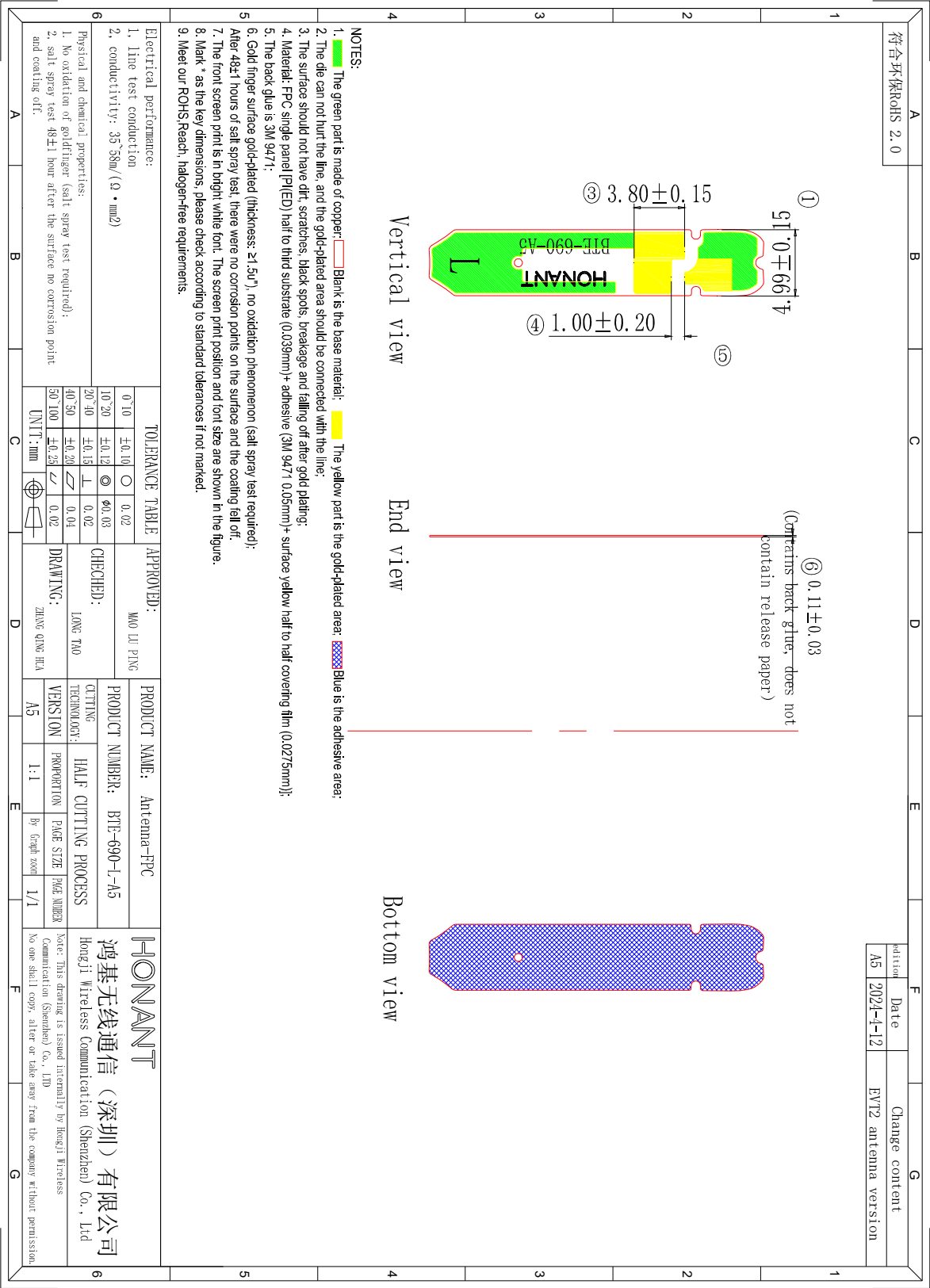
三： Matching circuit



Element	Value
E1	N/A
E2	0Ω
E3	1PF



四：Structure diagram



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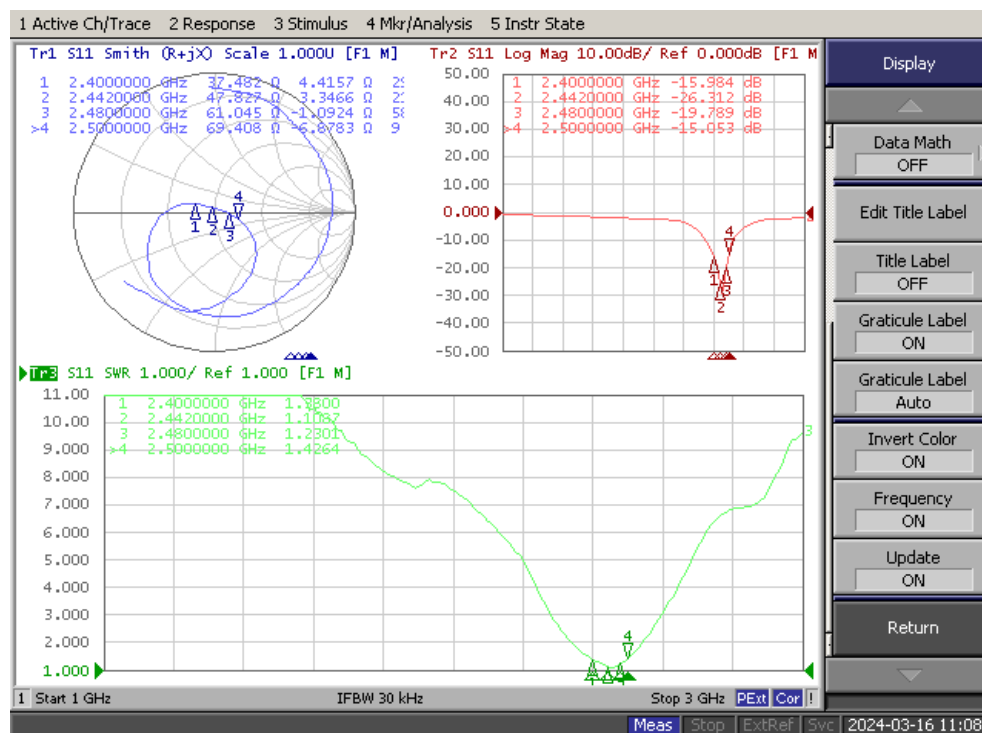
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一：Passive test report

network analyzer(5071B)



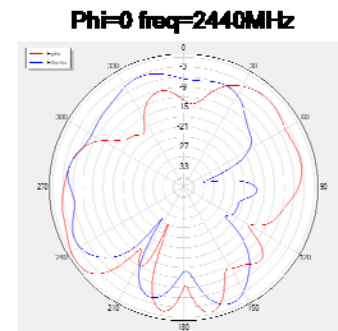
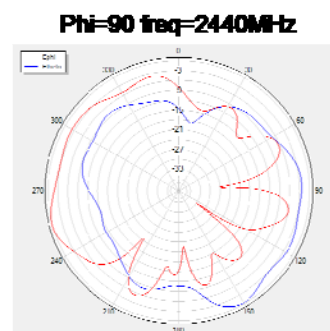
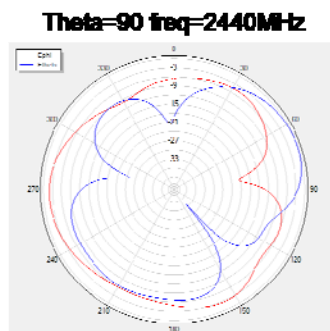
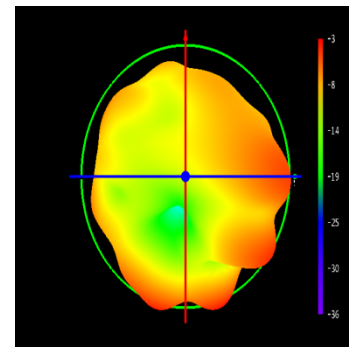
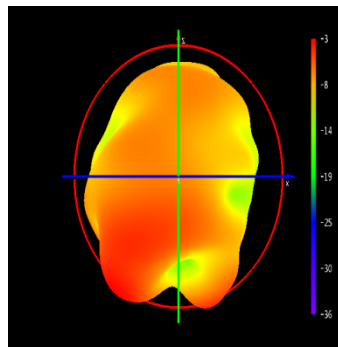
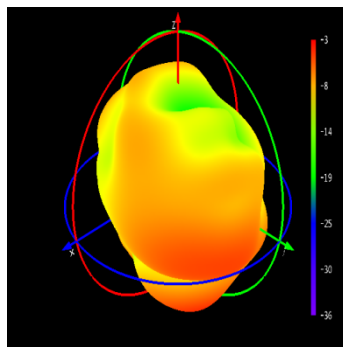
BT antenna S11 parameters



Passive efficiency of antenna

2400-2480MHz				
Freq(MHz)	Gain(dBi)	Efficiency(%)	Gain(dBi)	Efficiency(%)
	free space	free space	Second generation head mold	Second generation head mold
2400	-3.02	32.53	-4.88	14.89
2410	-3.07	34.17	-4.44	16.2
2420	-3.07	36.22	-4.48	16.52
2430	-3.04	37.13	-4.46	16.37
2440	-2.96	36.55	-4.59	16.13
2450	-2.92	33.93	-4.57	15.72
2460	-3.06	33.6	-4.72	15.06
2470	-3.3	32.64	-4.74	14.75
2480	-3.5	30.98	-5.17	14.3

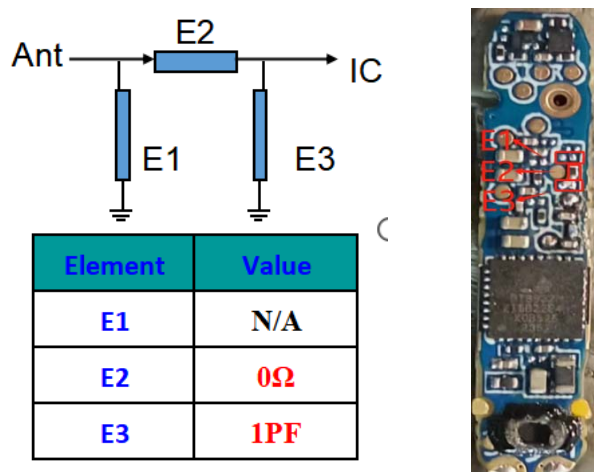
Passive pattern of BT antenna



二： BT antenna OTA parameters

BT	Channel	TRP(dBm)	TIS(dBm)
FS	0	6.14	-89.51
	39	6.64	-90.11
	78	6.07	-89.68
BT	Channel	TRP(dBm)	TIS(dBm)
Ear&head	0	0.78	-83.66
	39	1.24	-84.77
	78	0.89	-83.53

三： Matching circuit



四：Structure diagram

