



Antenna Part Specification

Project name:	Q910
Material category:	BT antenna
Version:	V4.0
Date:	2022.06.16



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Change record			
Compile / change date	Reason for change	Changed content	Version

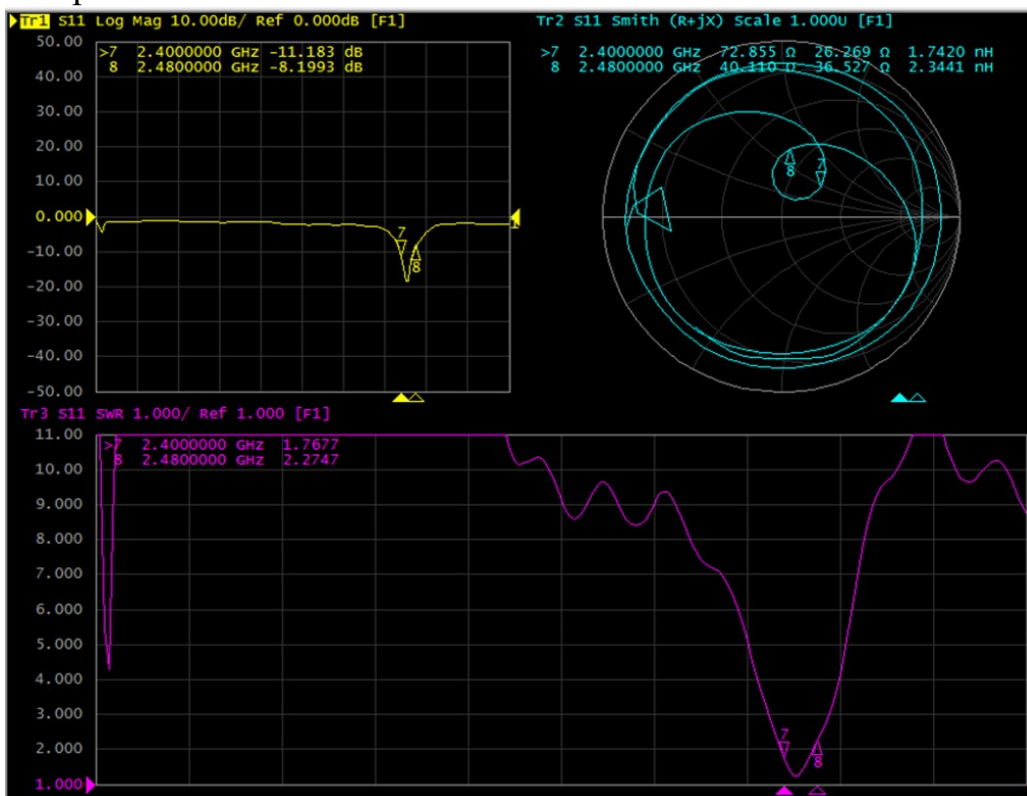


I: The report of passive data



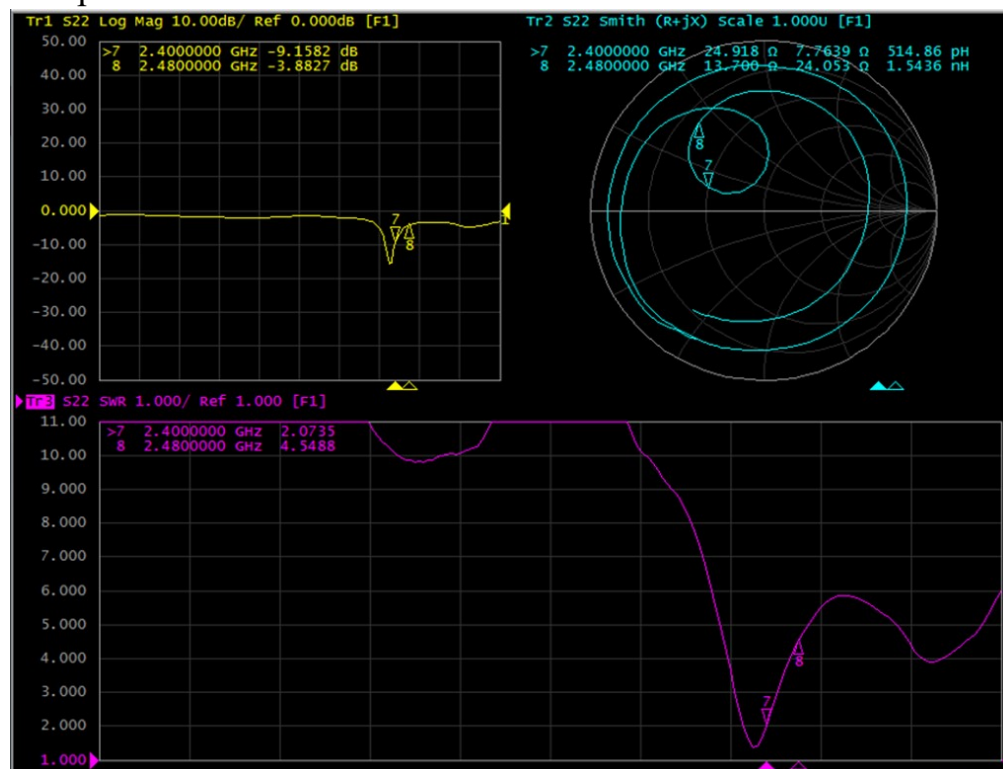
Angilent E5071C

S11 parameter (AB1565) :





S11 parameter (AB1568) :



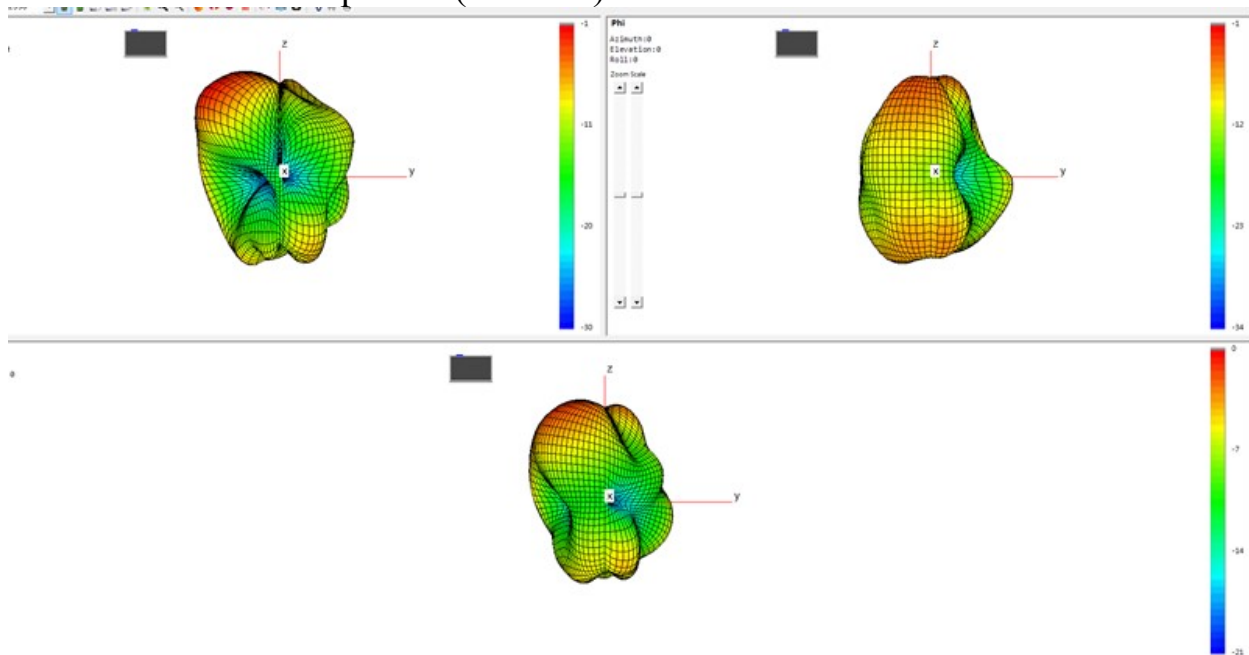
Efficiency:

AB1565			
Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency
2400	0.8	-4.06	39.3
2410	1.0	-4.03	39.6
2420	1.2	-3.98	40.0
2430	1.4	-3.68	42.9
2440	1.3	-3.64	43.2
2450	1.1	-3.75	42.1
2460	1.2	-3.78	41.9
2470	1.0	-4.04	39.5
2480	1.2	-3.97	40.1
Average value	1.14	-3.88	40.94

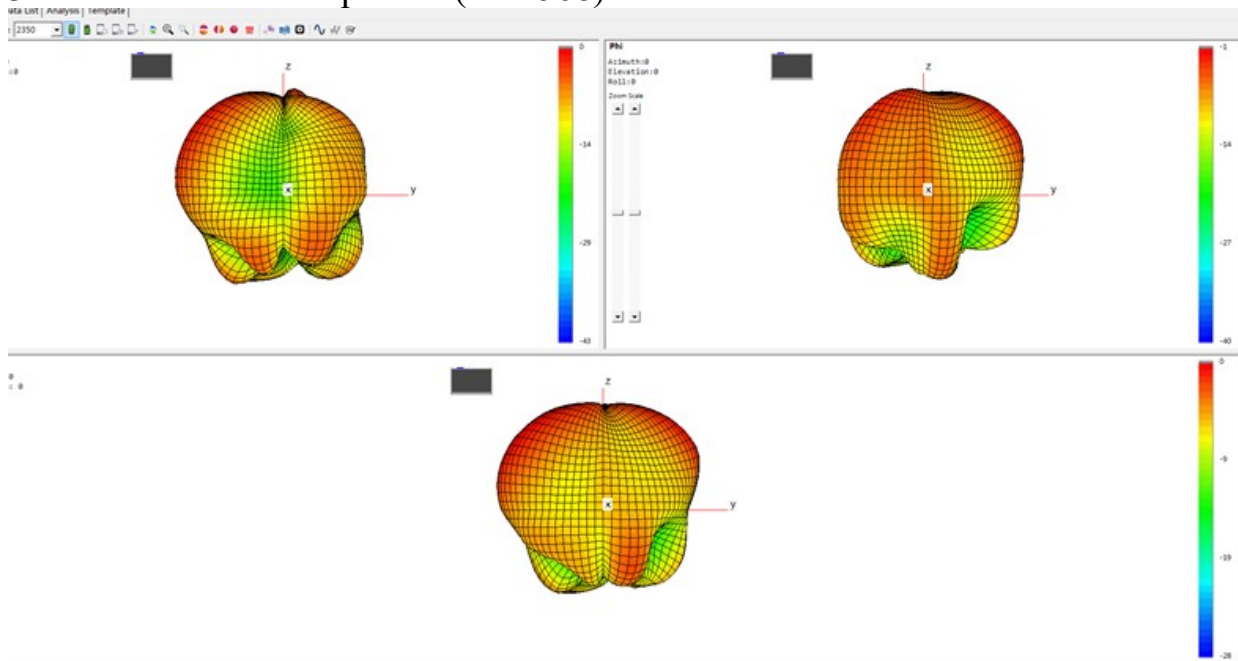
AB1568			
Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency
2400	-0.1	-4.05	39.3
2410	1.0	-4.18	38.2
2420	1.6	-4.01	39.7
2430	2.0	-4.18	38.2
2440	1.9	-4.54	36.2
2450	1.4	-4.95	35.0
2460	1.1	-5.03	34.4
2470	1.0	-4.90	32.4
2480	0.7	-5.00	31.6
Average value	1.17	-4.54	36.11



3D Antenna radiation pattern (AB1565):



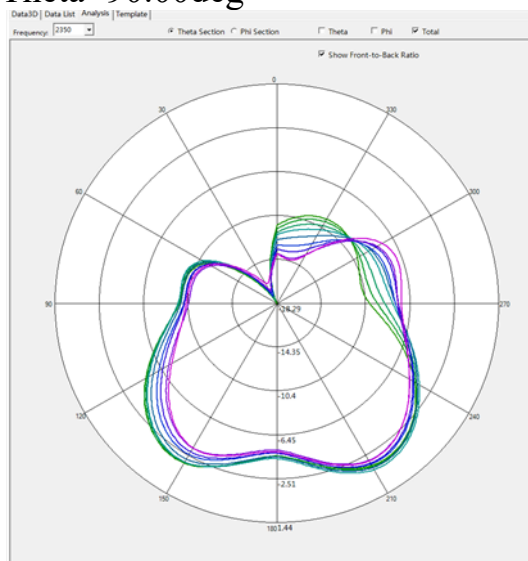
3D Antenna radiation pattern (AB1568):



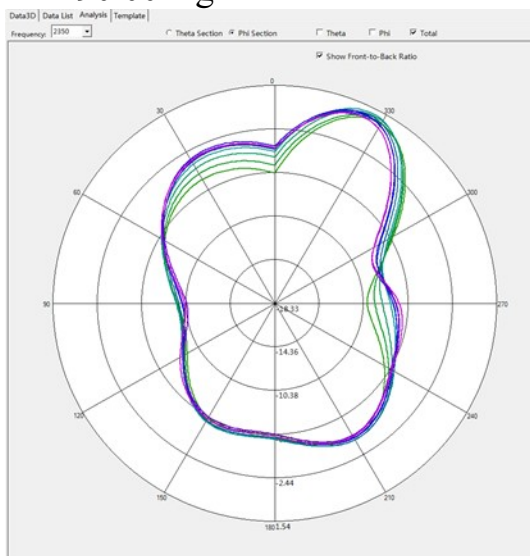


Antenna radiation pattern (AB1565):

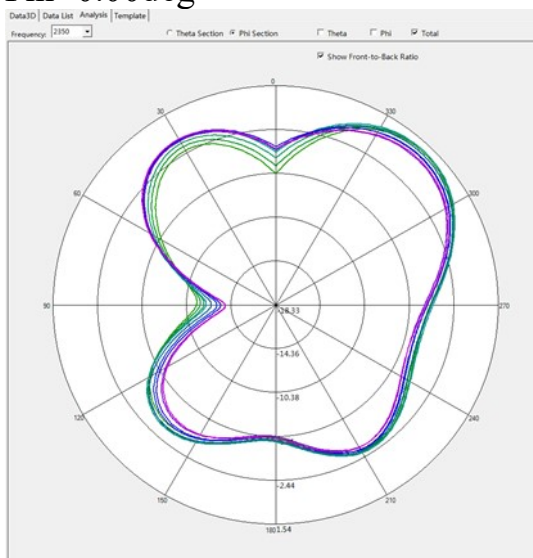
Theta=90.00deg



Phi=90.00deg



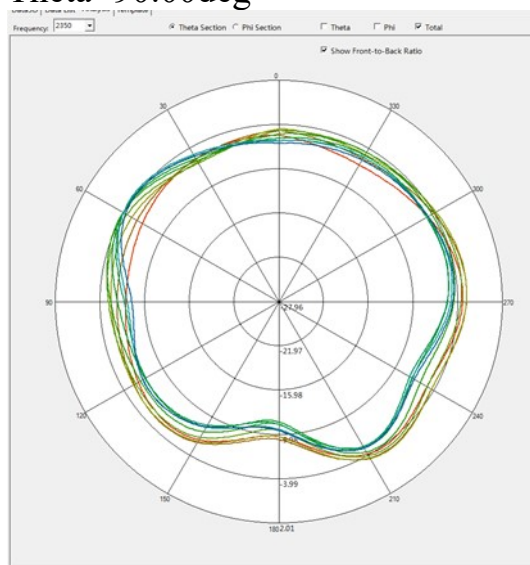
Phi=0.00deg



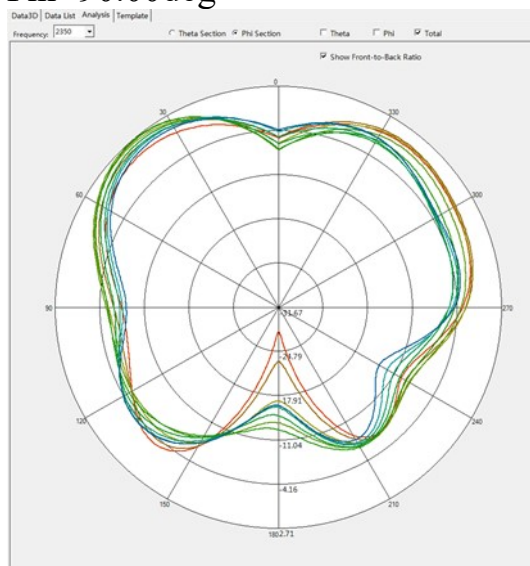


Antenna radiation pattern (AB1568):

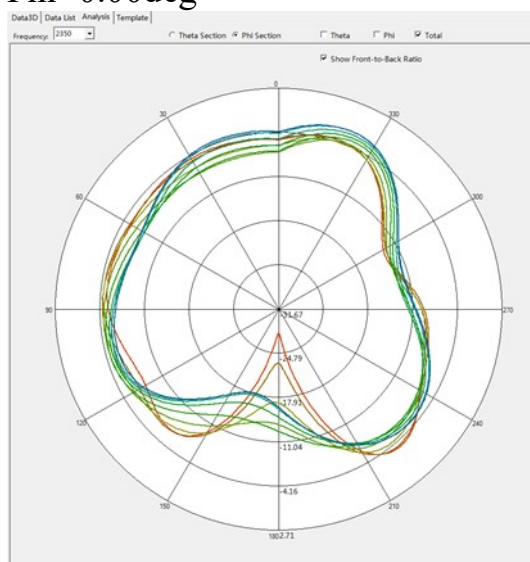
Theta=90.00deg



Phi=90.00deg



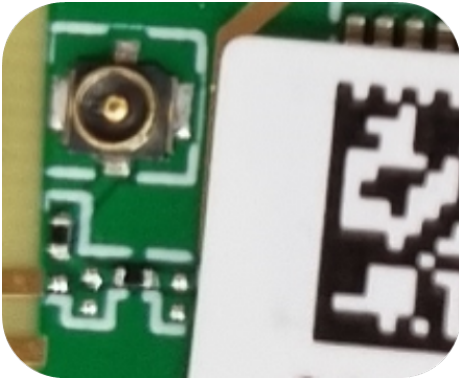
Phi=0.00deg



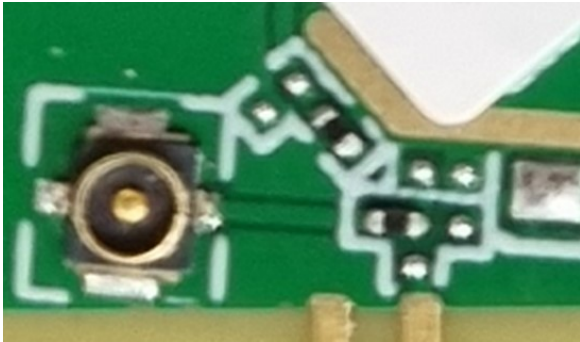


II: Schematic diagram of matching circuit modification

AB1565:



AB1568:



The two antennas are only connected with 0 Ω for matching, and other resistance materials are not used for the time being.



III: Structure file:

