
Antenna Performance Description

Applicant: Xiaomi Communications Co., Ltd

Product description: Mobile Phone

Model: 2209116AG

FCC ID: 2AFZZ16AG

Test date: Jul. 26, 2022

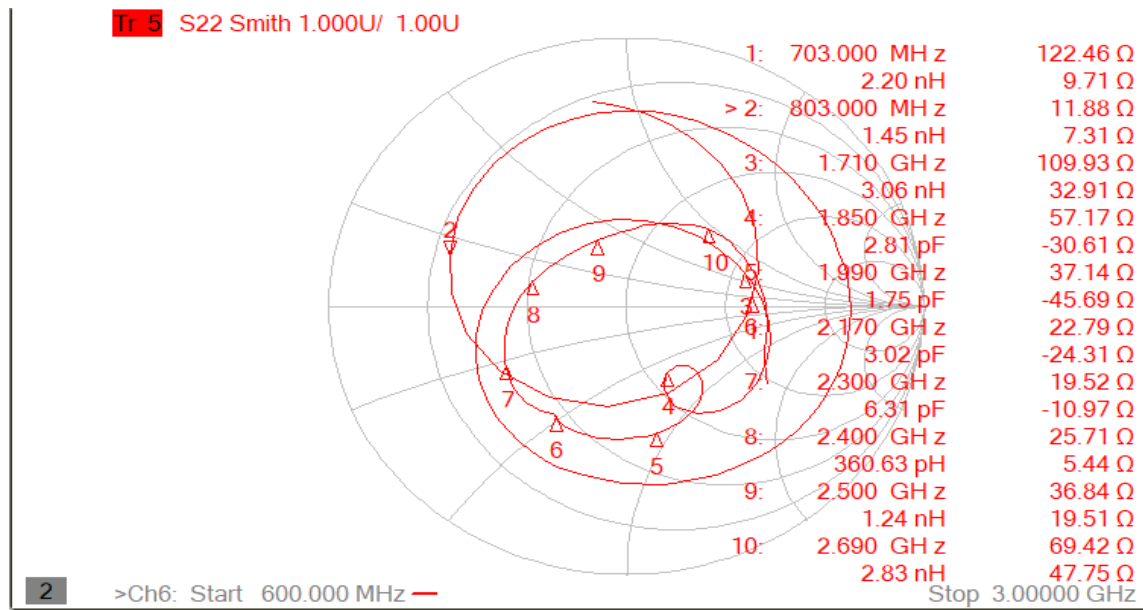
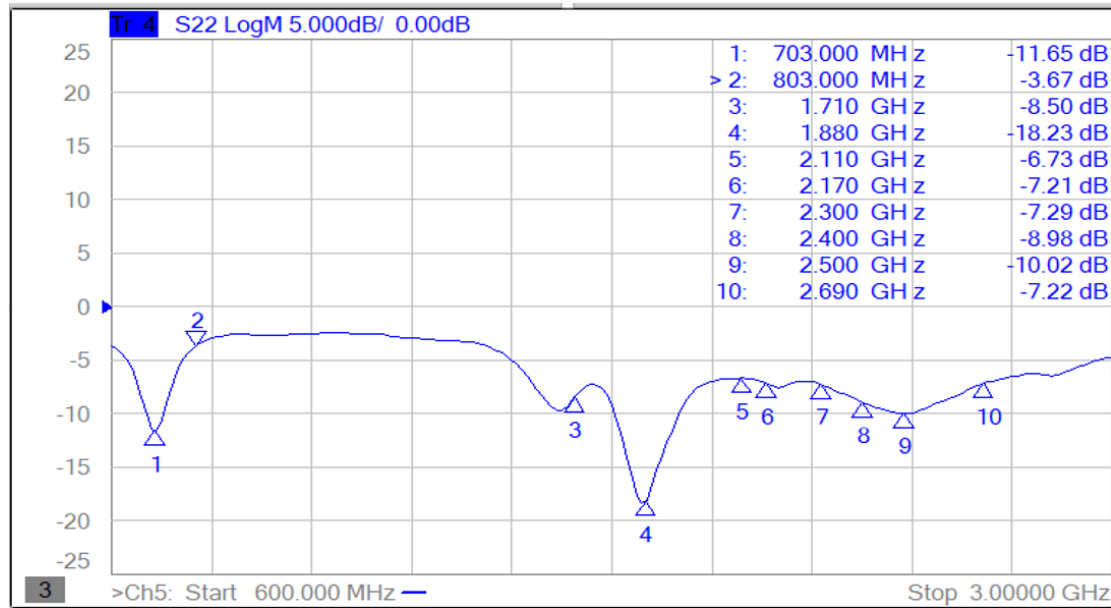
Antenna	Model Name	Antenna Pattern	Antenn a Type	Manufacturer	Test party of Antenna gain
ANT0	K6A-RX-S88206-ANT1-T05	FPC	IFA Antenna	Kunshan Ruixiang Xuntong Communication Technology Co. LTD	Kunshan Ruixiang Xuntong Communication Technology Co. LTD
ANT2 (RX)	K6A-RX-S88206-ANT5-T05	FPC	IFA Antenna	Kunshan Ruixiang Xuntong Communication Technology Co. LTD	Kunshan Ruixiang Xuntong Communication Technology Co. LTD
ANT4	K6A-RX-S88206-ANT3-T02	FPC	IFA Antenna	Kunshan Ruixiang Xuntong Communication Technology Co. LTD	Kunshan Ruixiang Xuntong Communication Technology Co. LTD
ANT6	K6A-RX-S88206-ANT4-T02	FPC	IFA Antenna	Kunshan Ruixiang Xuntong Communication Technology Co. LTD	Kunshan Ruixiang Xuntong Communication Technology Co. LTD

ANT0

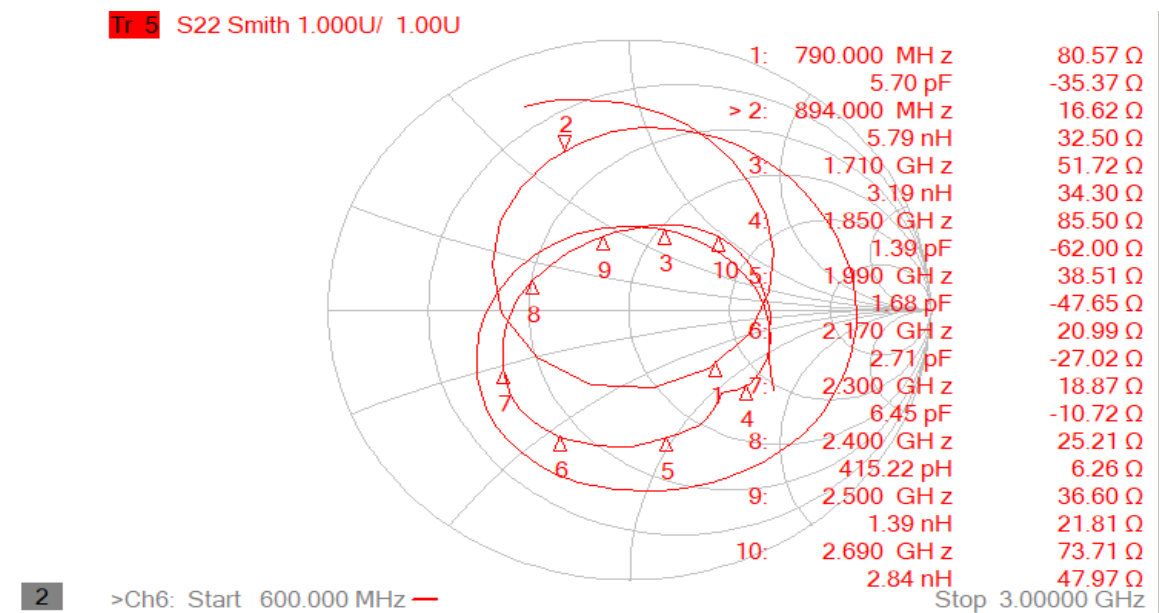
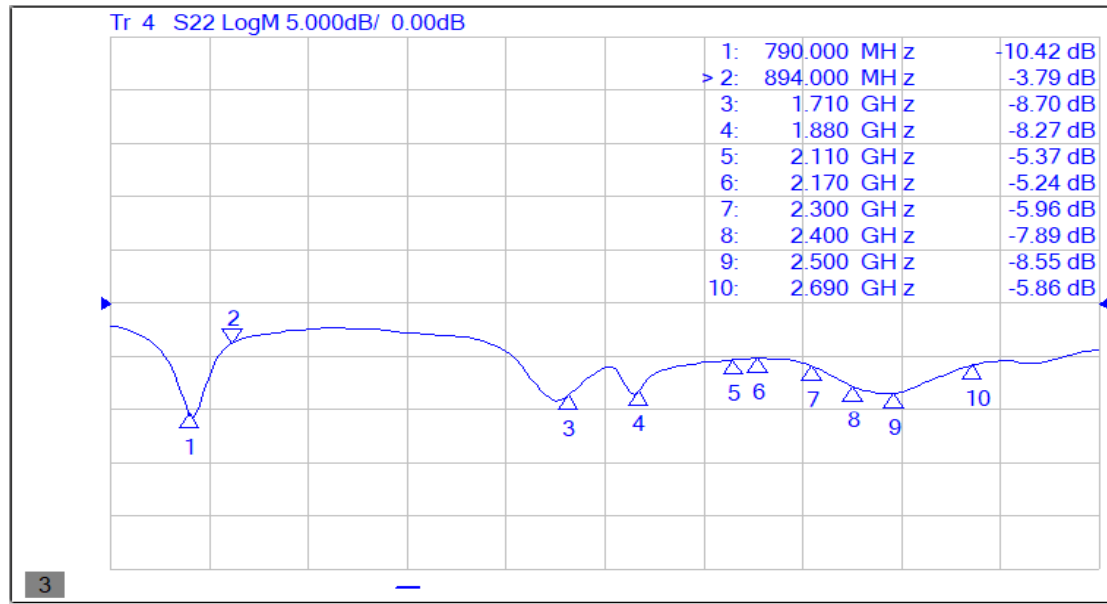
Band	Combo ant	
	Effi.(dBi)	peak gain(dBi)
B1	-5	-2.7
B2	-4.9	-1.85
B3	-5.7	-2.2
B4/66	-5.7	-2.85
B5	-7.9	-5.27
B7/38/41	-5.7	-3.7
B8	-8.6	-6.6
B20	-7.9	-5.27
B28	-8.9	-5.73
B40	-5.2	-2.1

S11

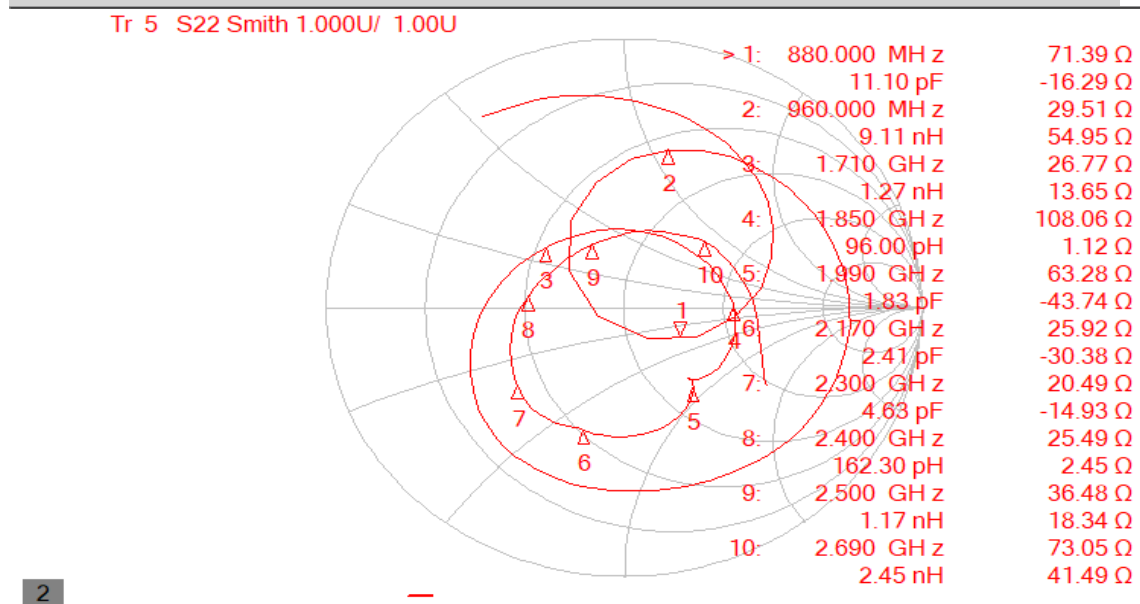
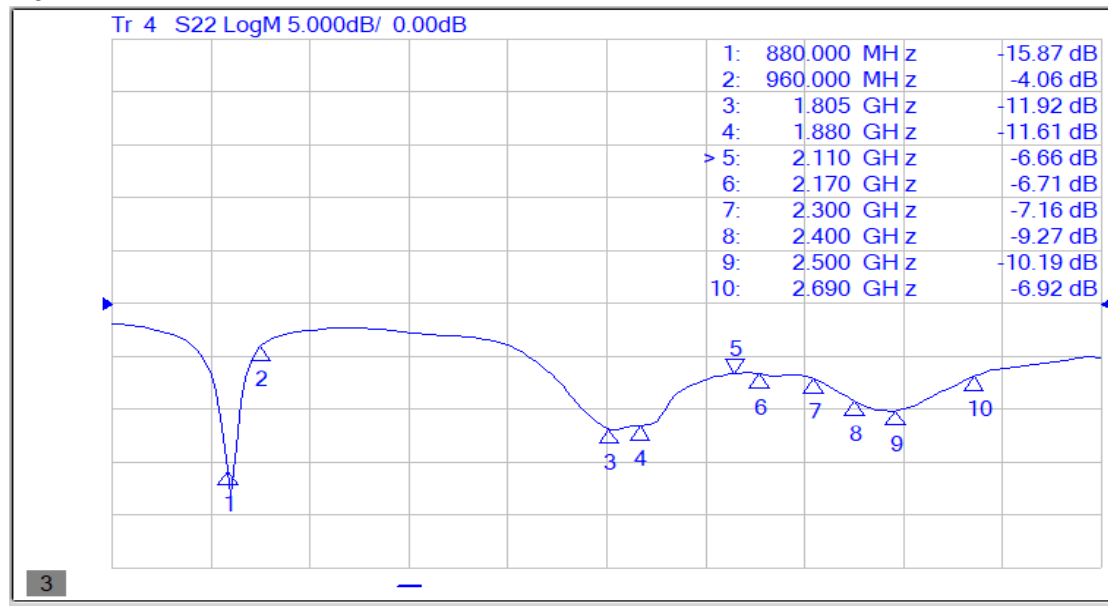
B28

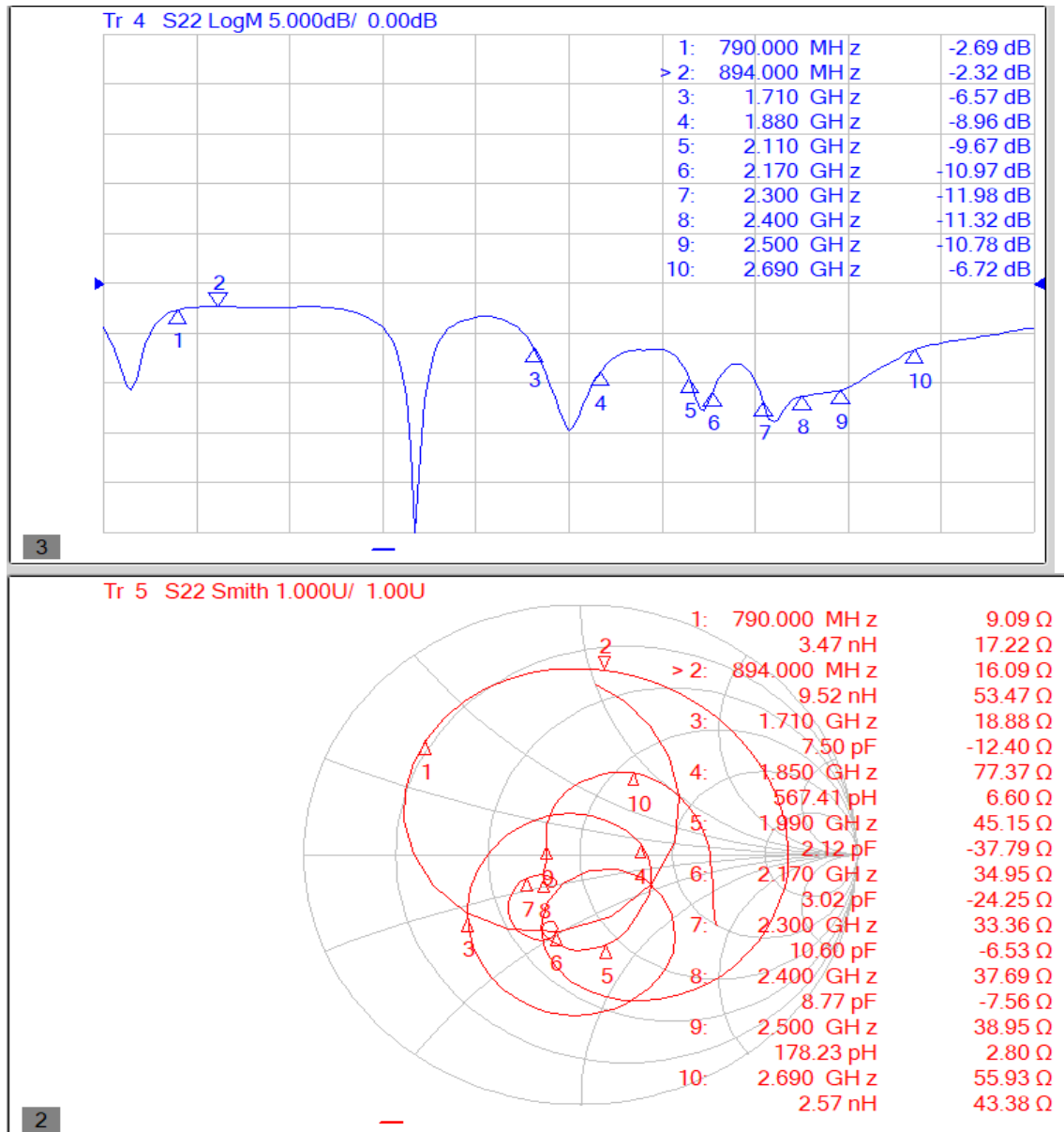


B5/20



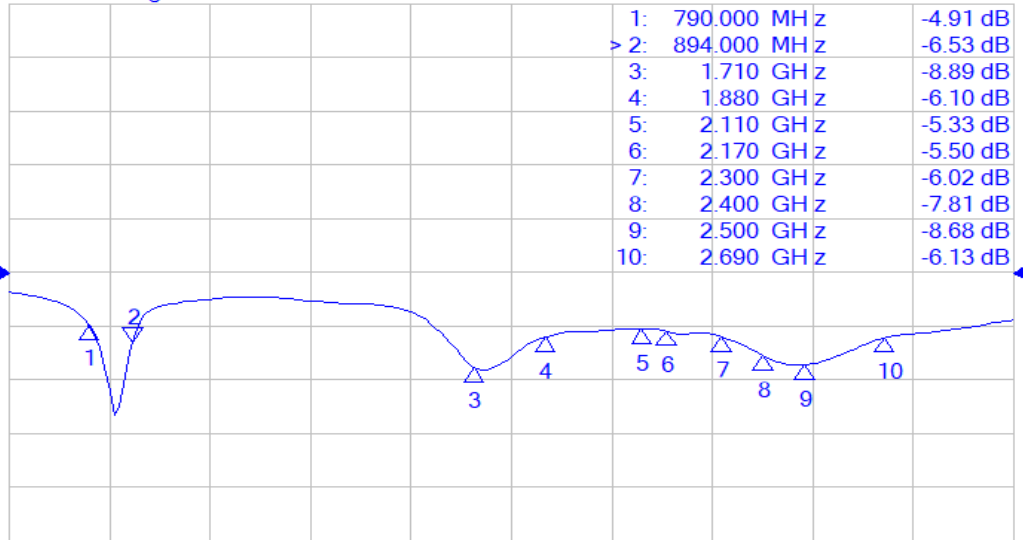
B8





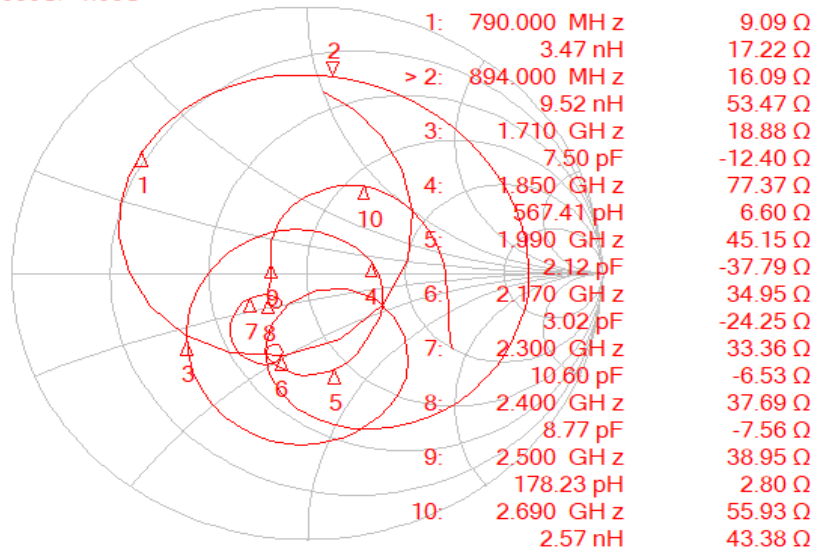
B3/4

Tr 4 S22 LogM 5.000dB/ 0.00dB



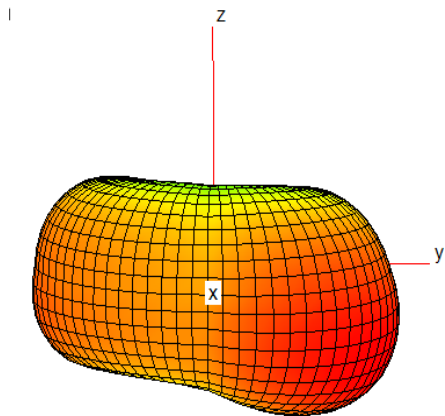
3

Tr 5 S22 Smith 1.000U/ 1.00U

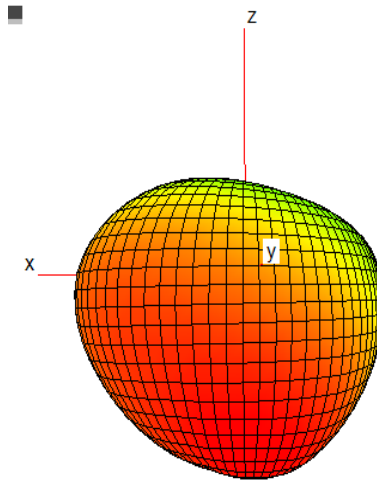


2

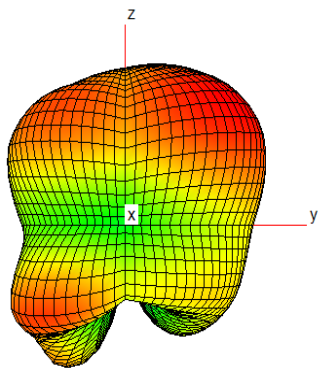
750MHz



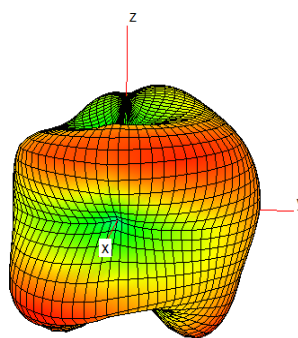
850MHz



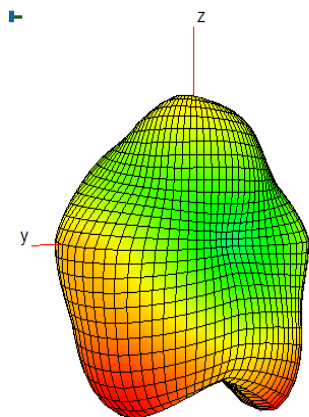
900MHz



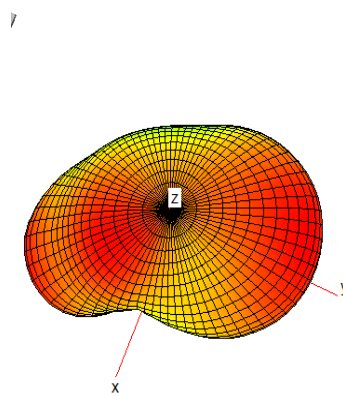
1790MHz



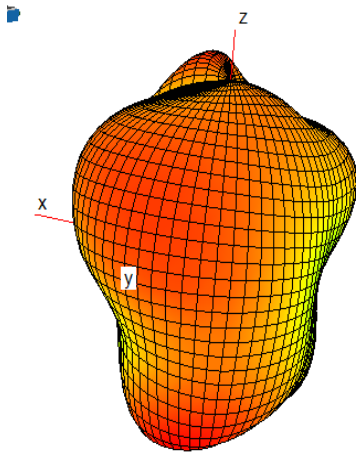
2050MHz



2350MHz



2570MHz

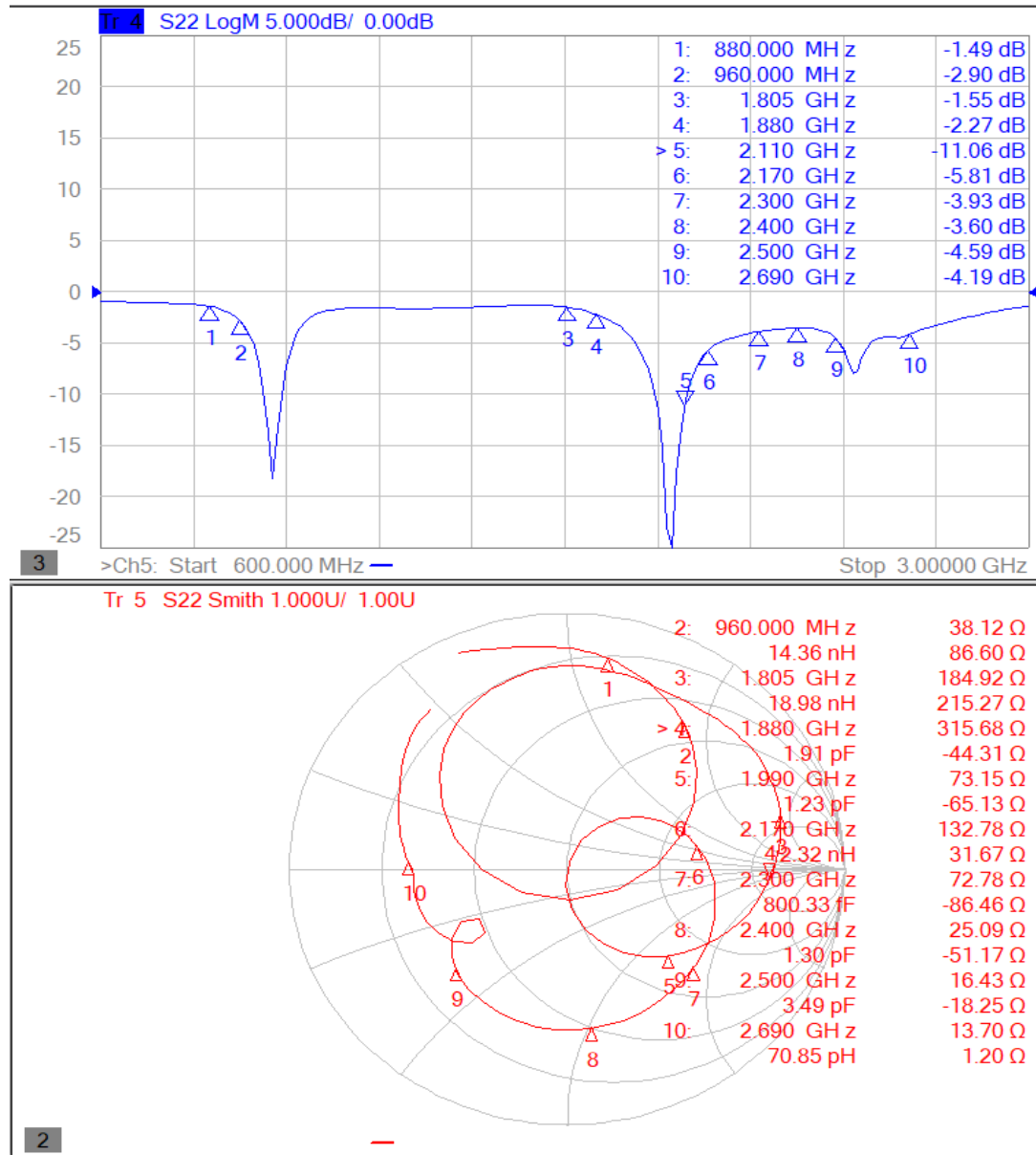


ANT2

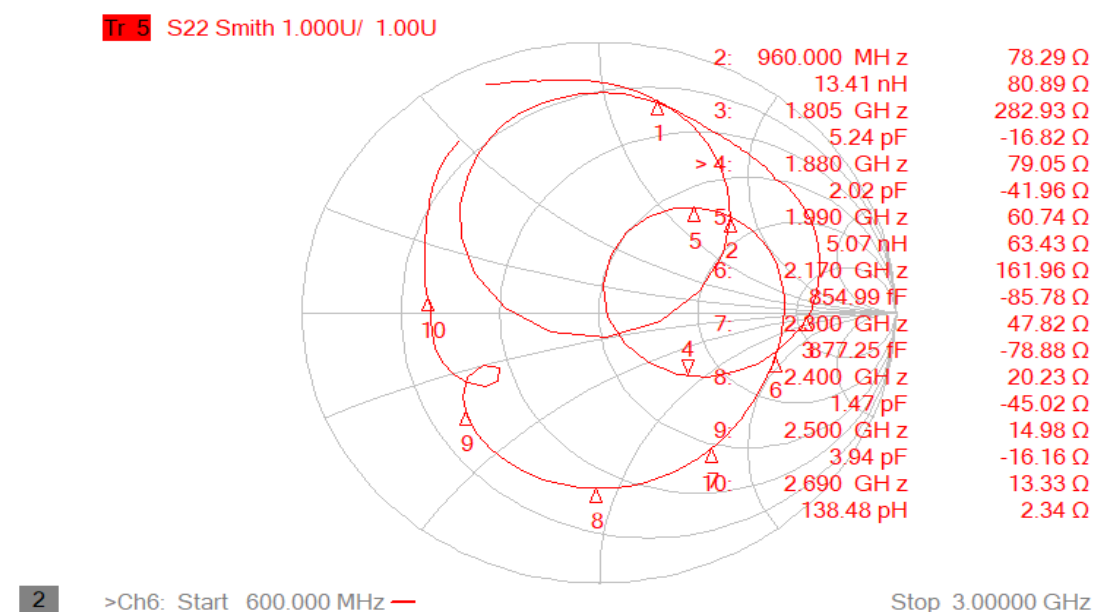
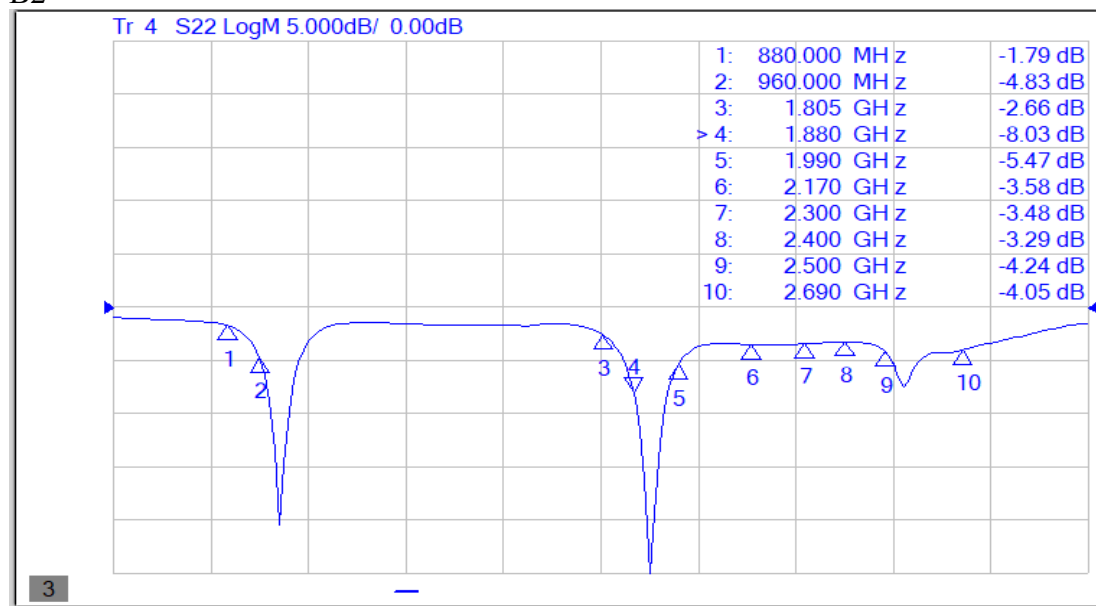
Band	Combo ant	
	Effi.(dBi)	peak gain(dBi)
B1/4/66	-8.2	-4.75
B3	-8.4	-5.8
B7/38/41	-10	-6.65
B40	-9	-5.12
B2	-9	-5.32

S11

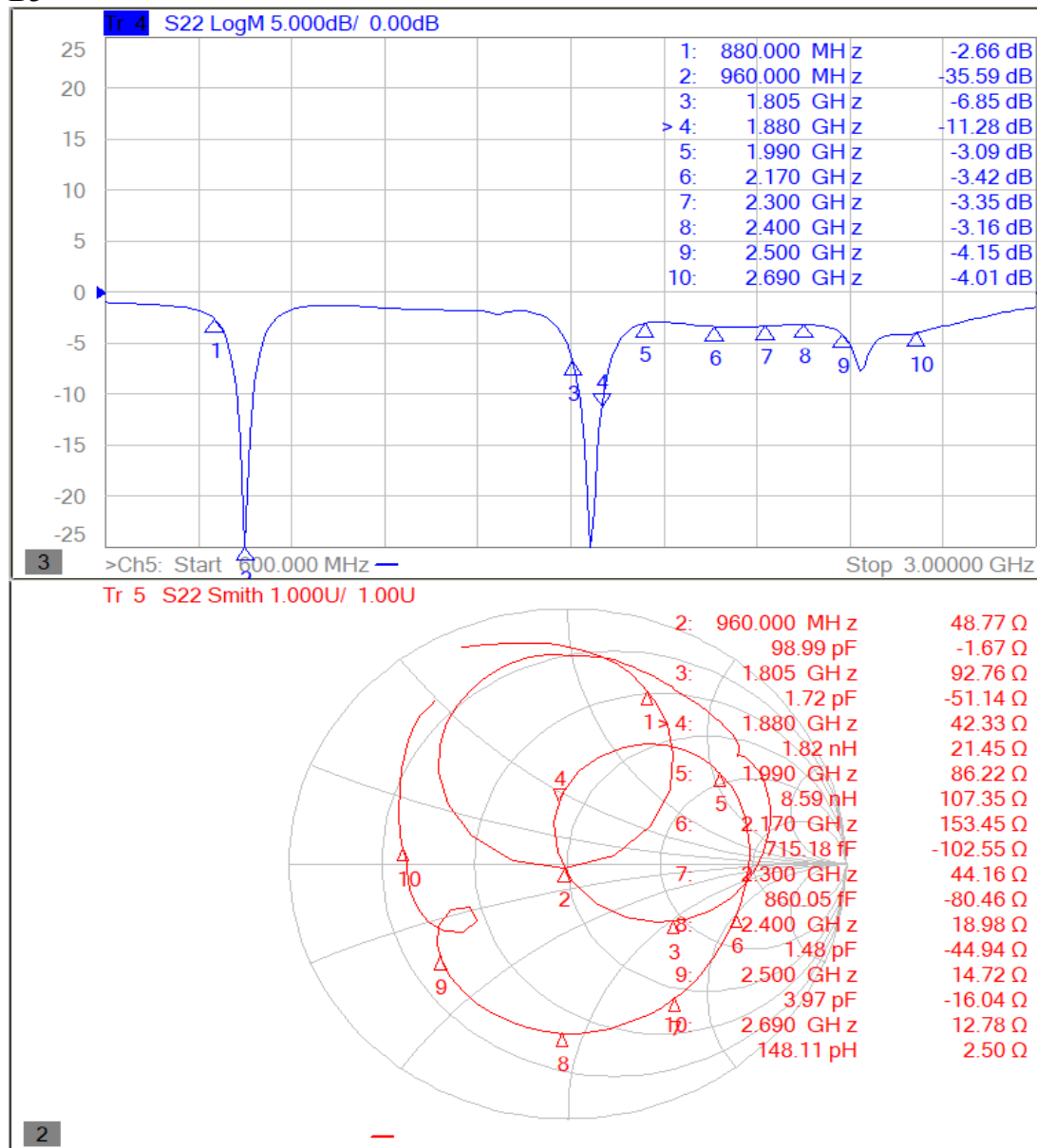
B1

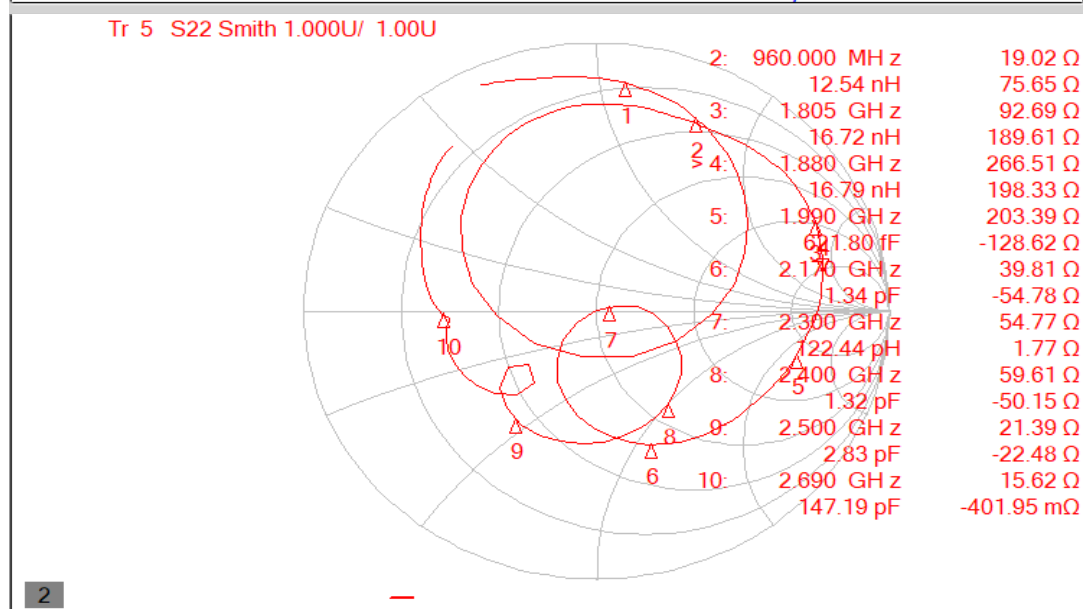
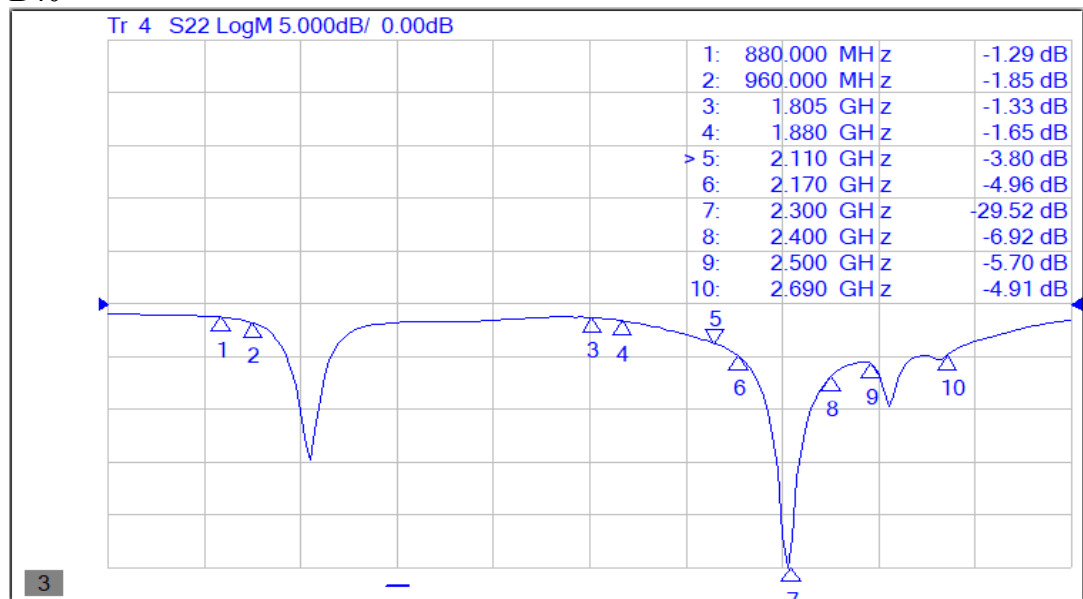


B2

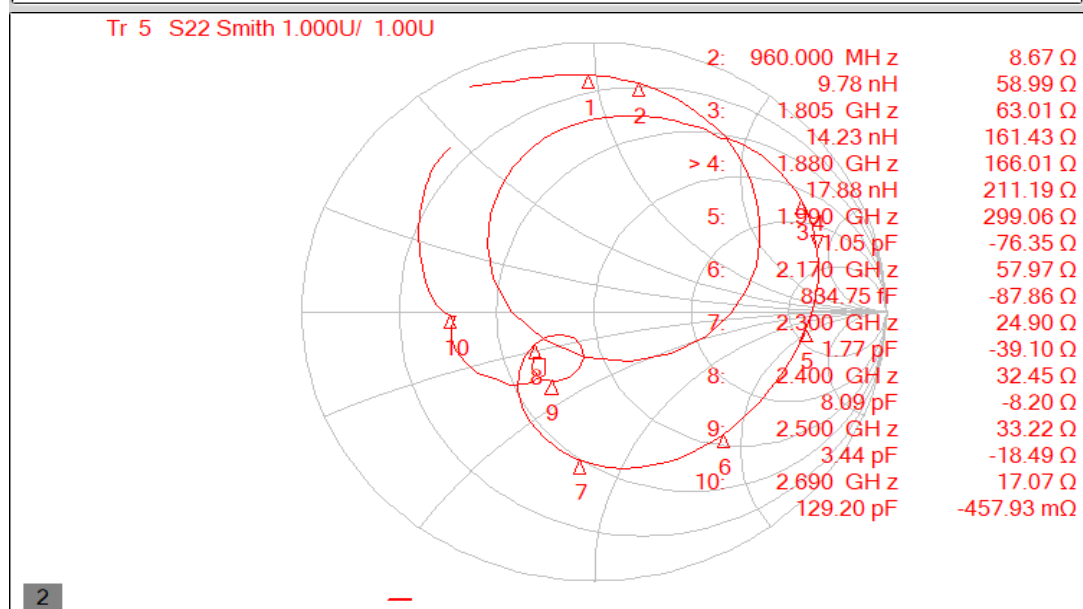
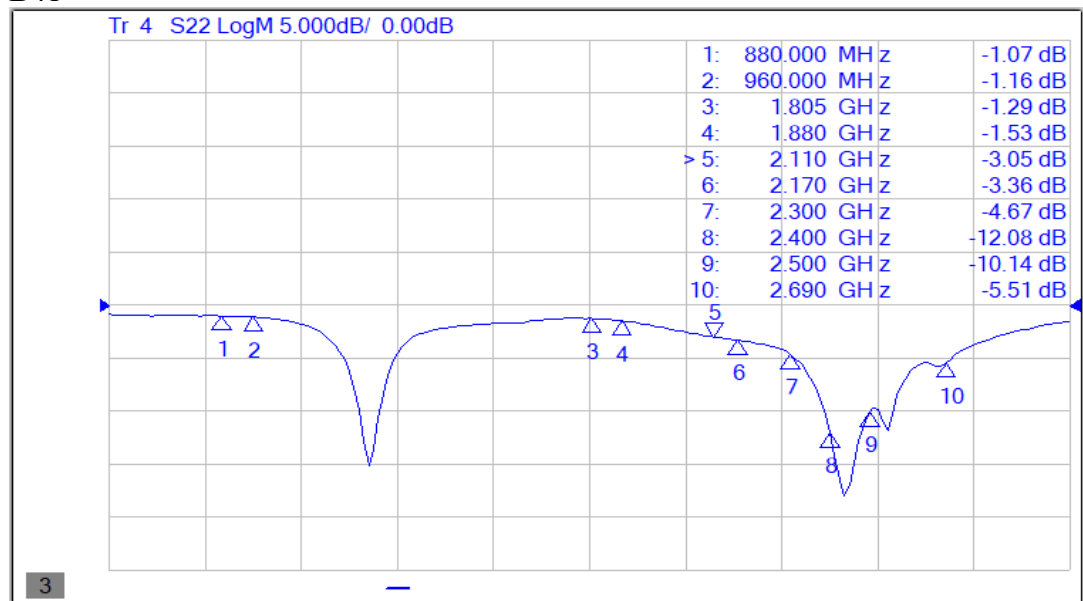


B3

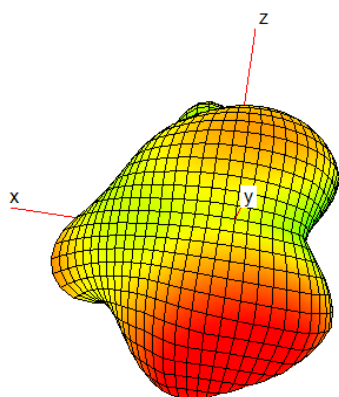




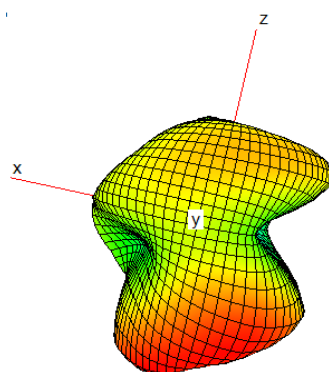
B41



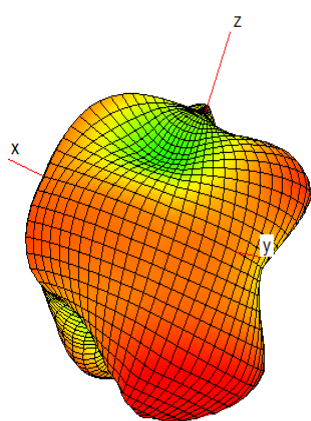
1950MHz



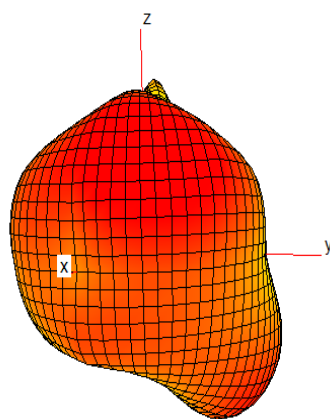
1850MHz



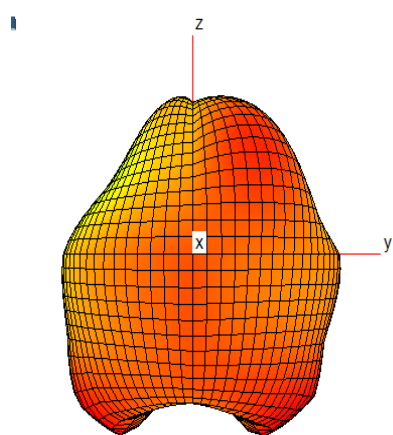
2150MHz



2350MHz



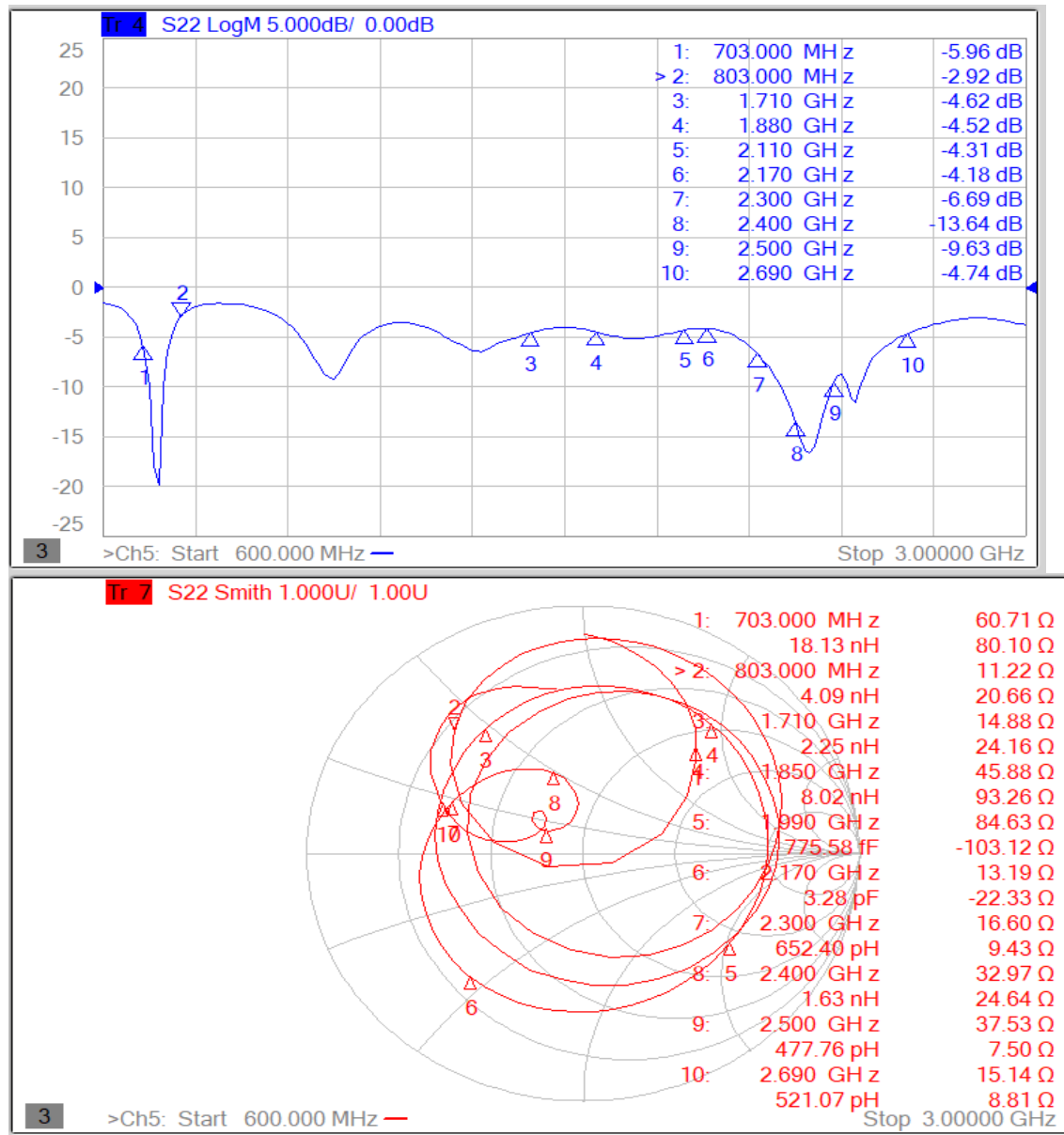
2600MHz

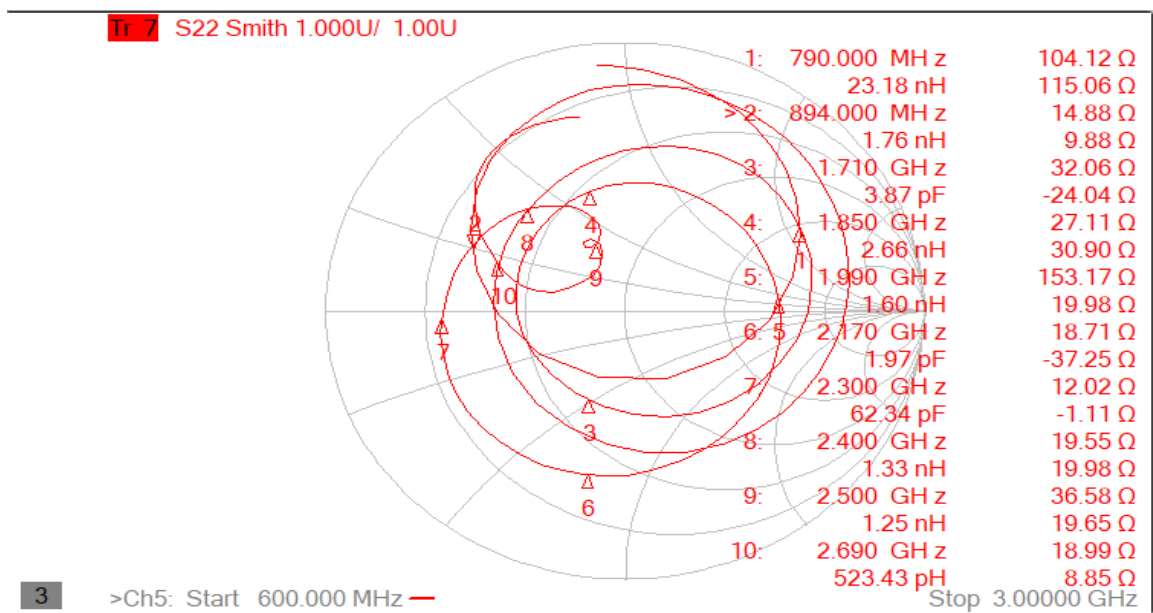
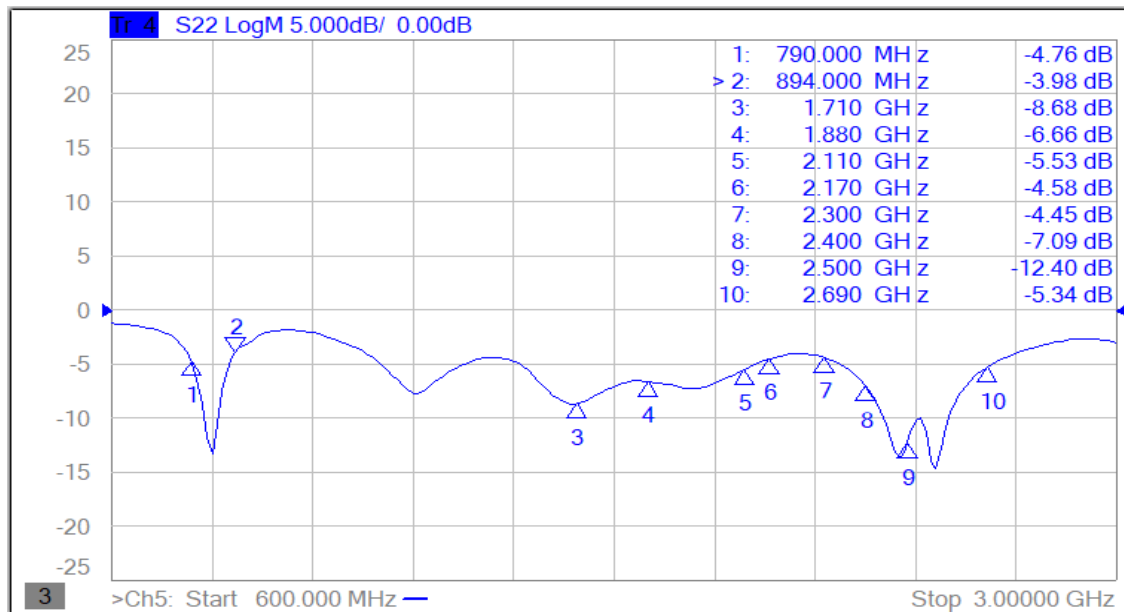


ANT4

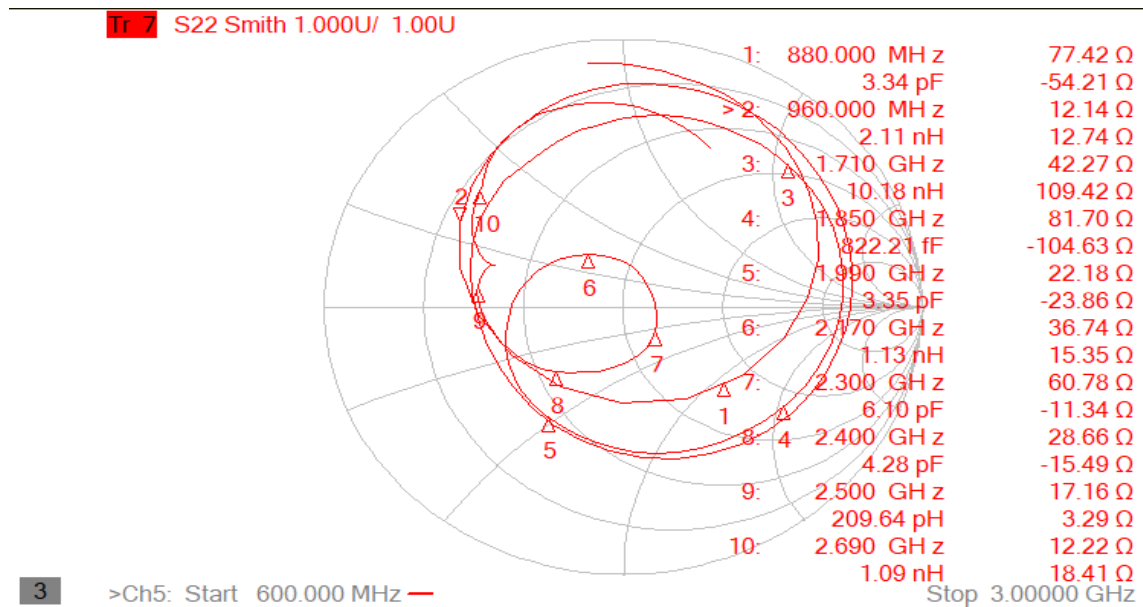
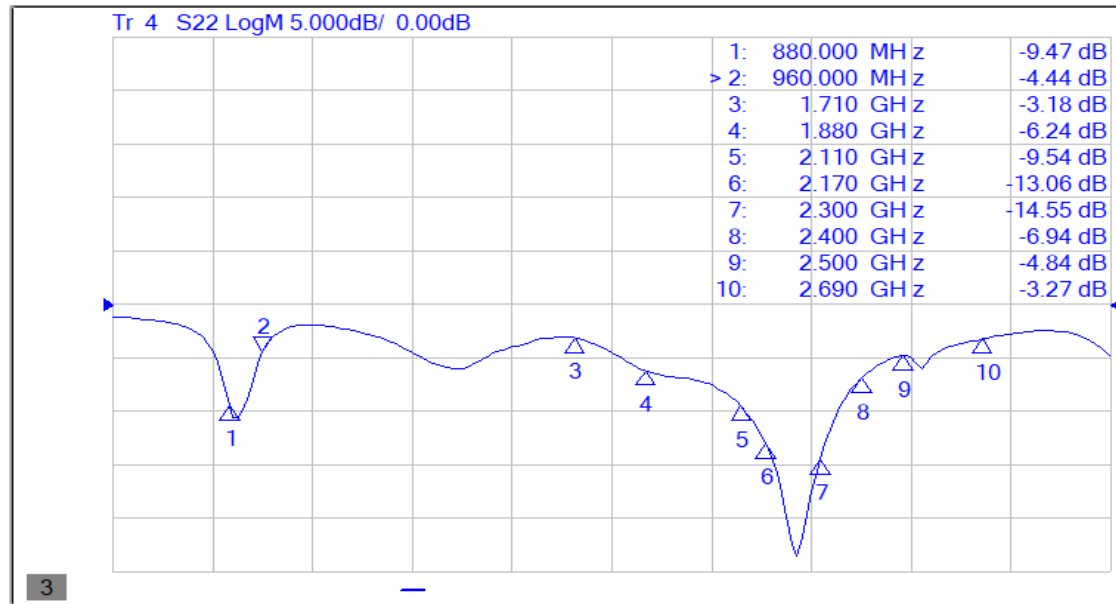
Band	Combo ant	
	Effi.(dBi)	peak gain(dBi)
B1	-5	-1.13
B2	-4.9	-2.25
B3	-8.1	-4.59
B4/66	-7.6	-6
B5	-8.8	-5.5
B7/38/41	-5.5	-1.7
B8	-8.9	-6.38
B20	-8.8	-5.5
B28	-8.3	-6.5
B40	-4.3	-0.1

S11
B28/B3

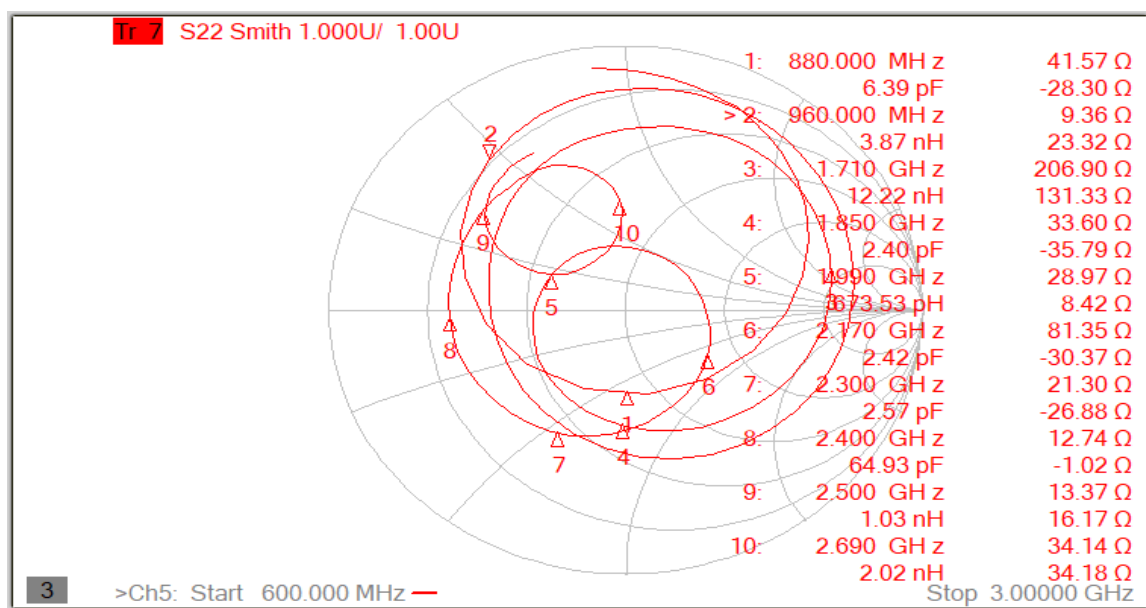
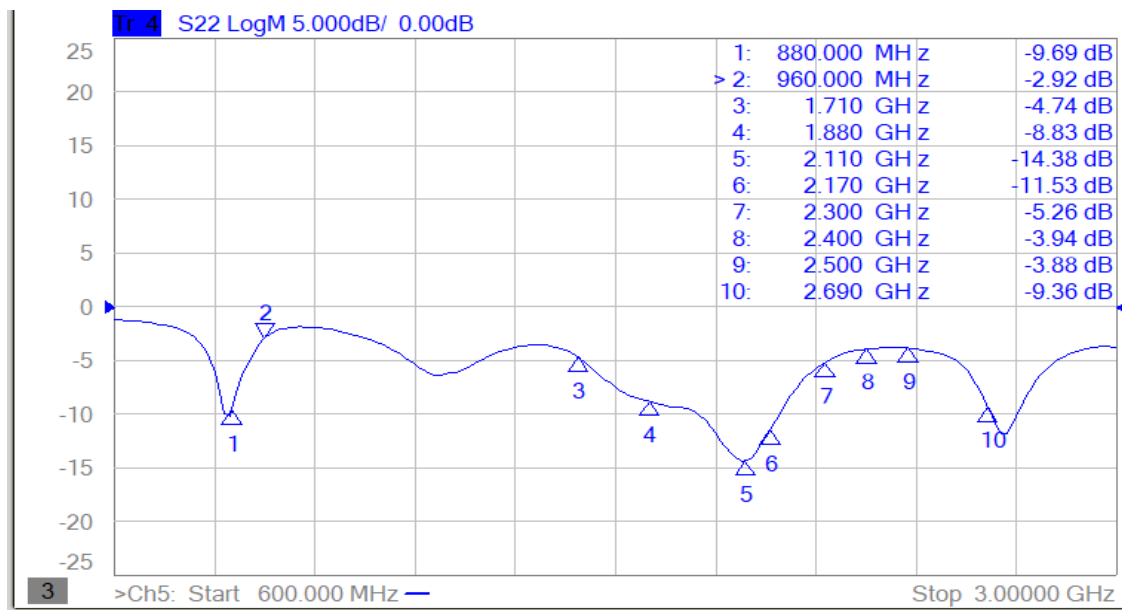




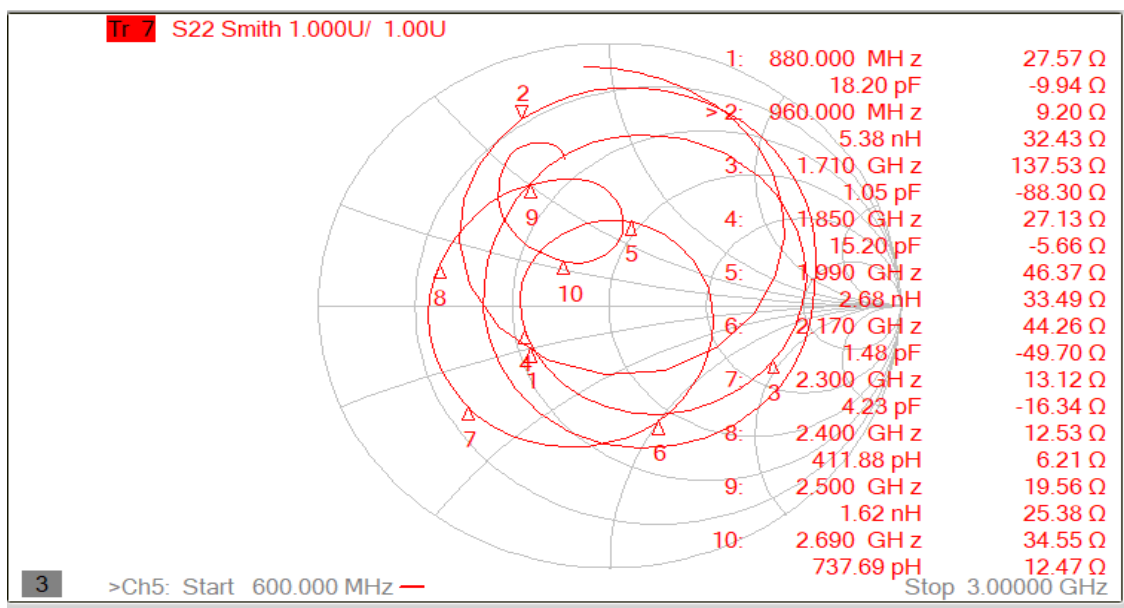
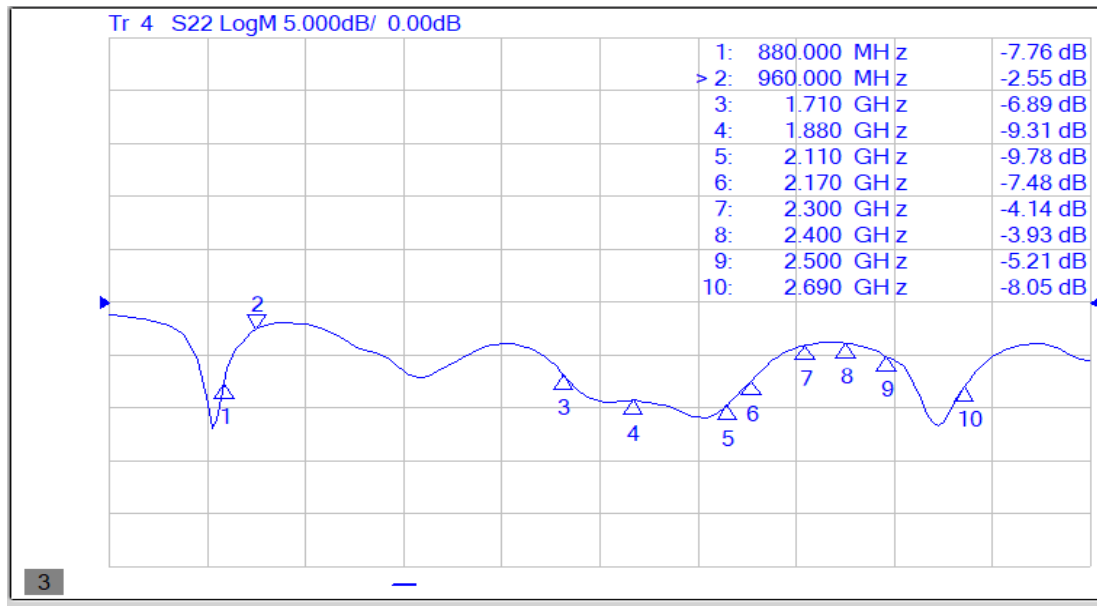
B8/B40



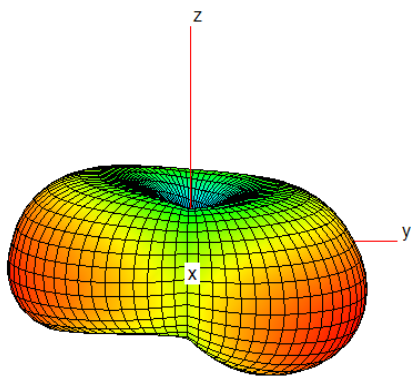
B1



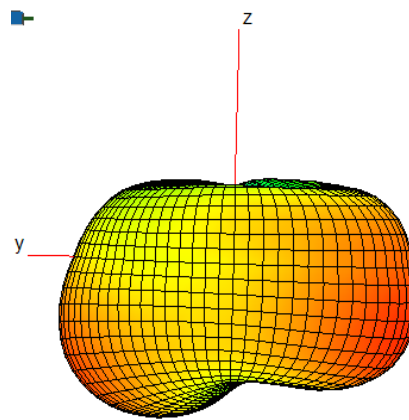
B2



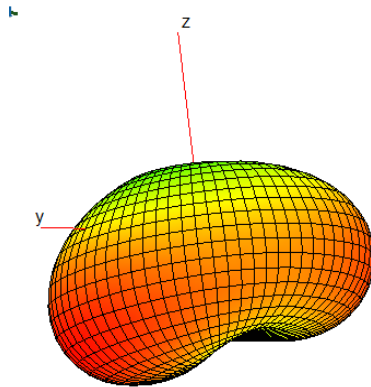
730MHz



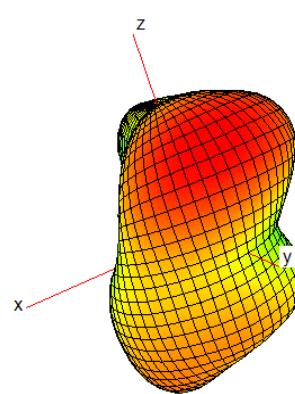
800MHz



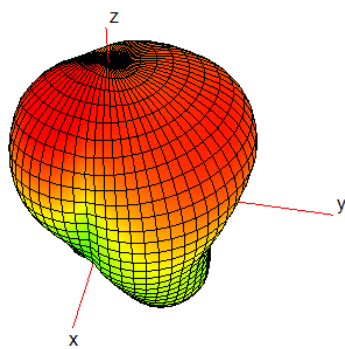
850MHz



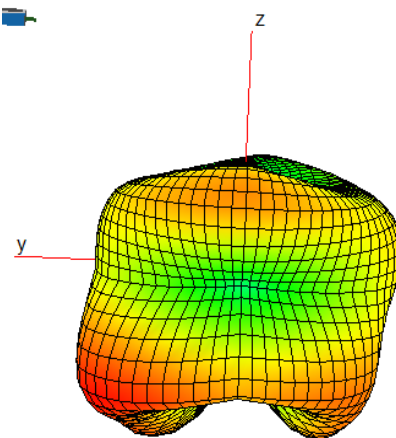
900MHz

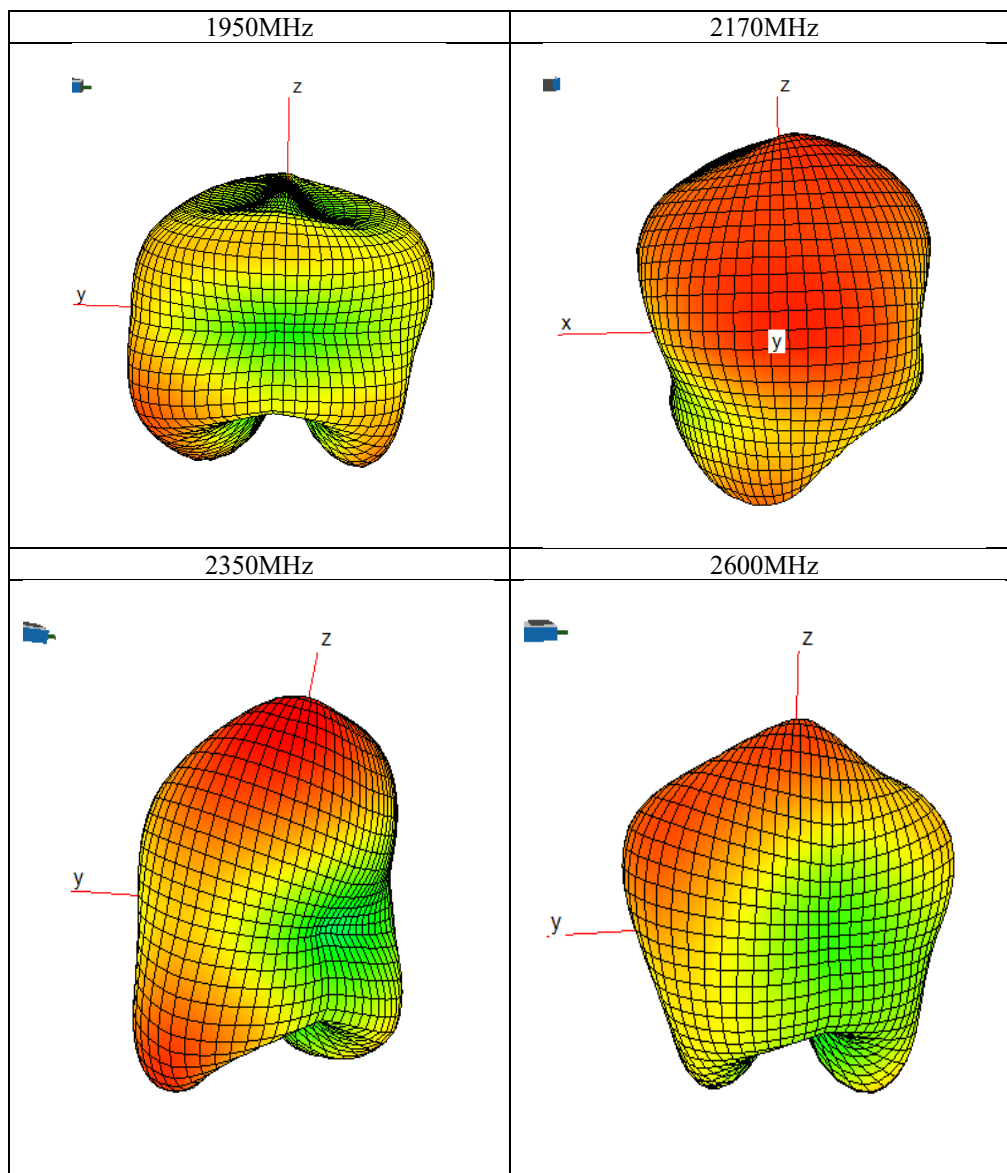


1750MHz



1880MHz

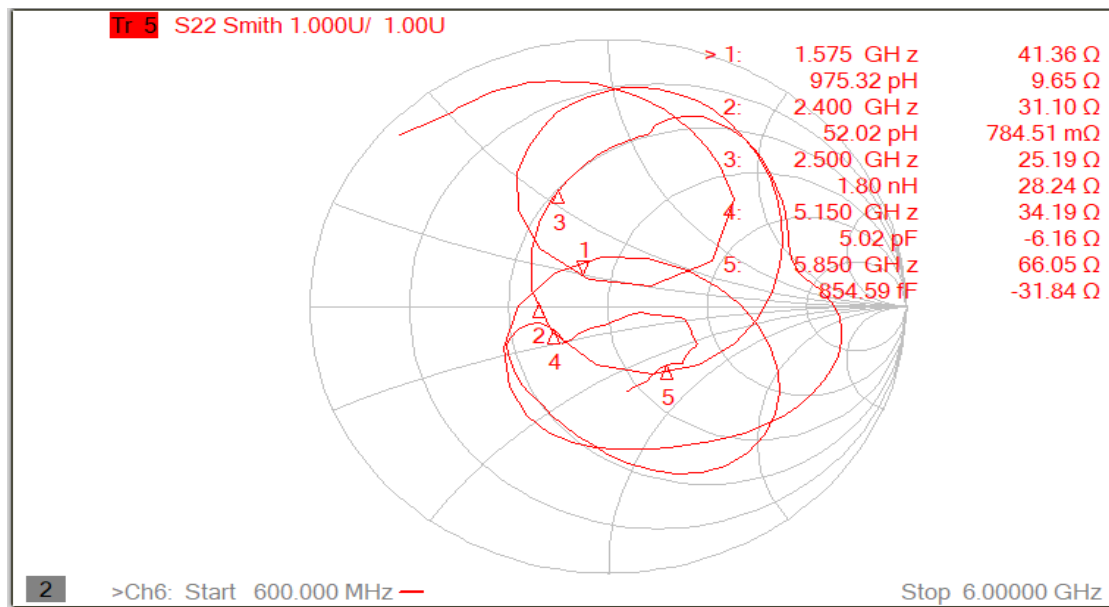
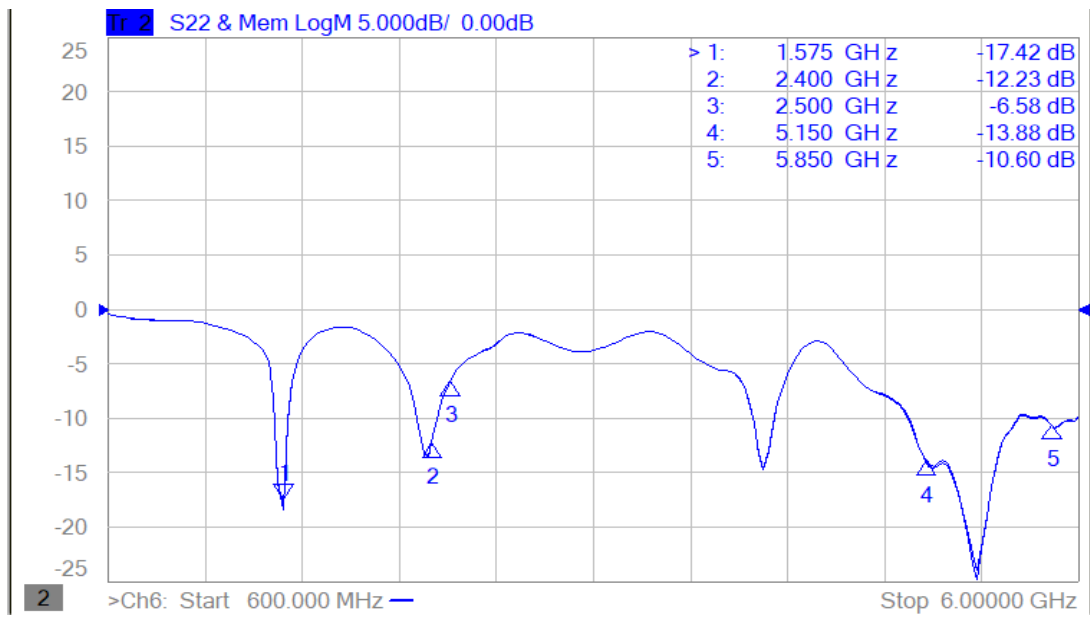


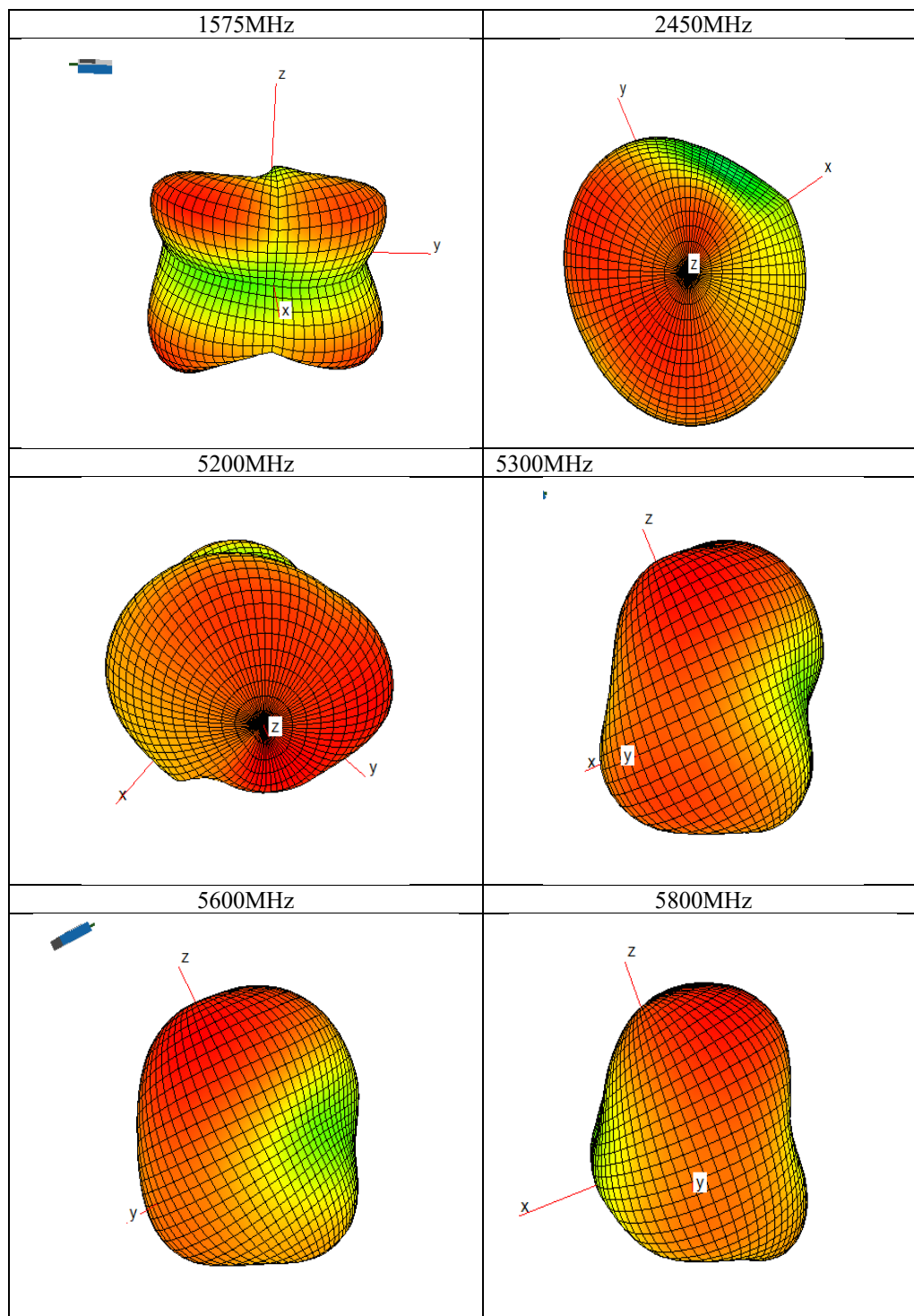


ANT6

Band	Combo ant	
	Effi.(dBi)	peak gain(dBi)
GPS	-5.5	-2
WIFI2.4G	-4.5	-3.6
WIFI5G 5150-5225MHZ	-5.1	-3.7
WIFI5G 5225-5350MHZ	-5.2	-3.8
WIFI5G 5470-5725MHZ	-4.8	-3.7
WIFI5G 5725-5850MHZ	-5	-4.4

S11





Main Test Instruments:

Name	Manufacturer	Model name	Serial Number	Cal., Date	Exp., Date