

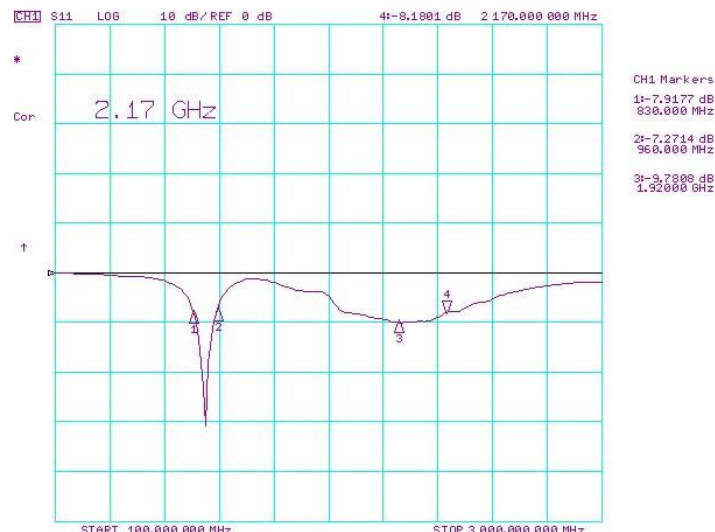
ANTENNA

■ Electrical characteristics

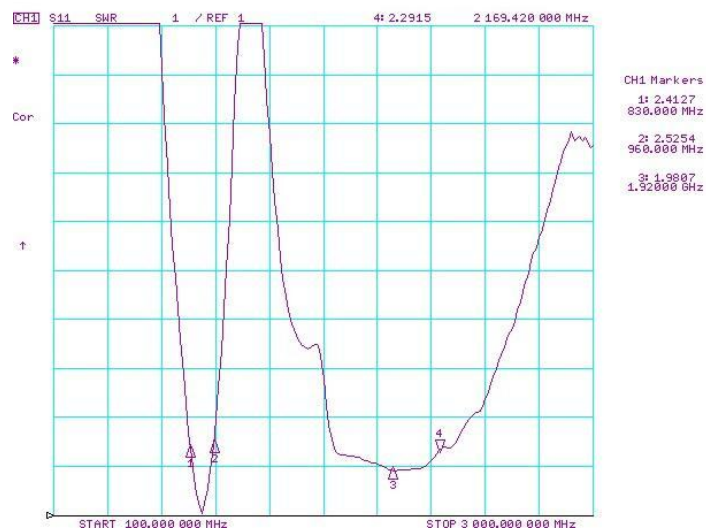
1. Frequency : 824 – 960MHz , 1920 – 2170MHz
1575.42MHz
2. Max Return Loss : -6[dB], GSM/WCDMA
-9.54[dB], GPS/GLONASS
3. Max VSWR : 3 : 1, GSM/WCDMA
2 : 1, GPS

■ Electrical performance

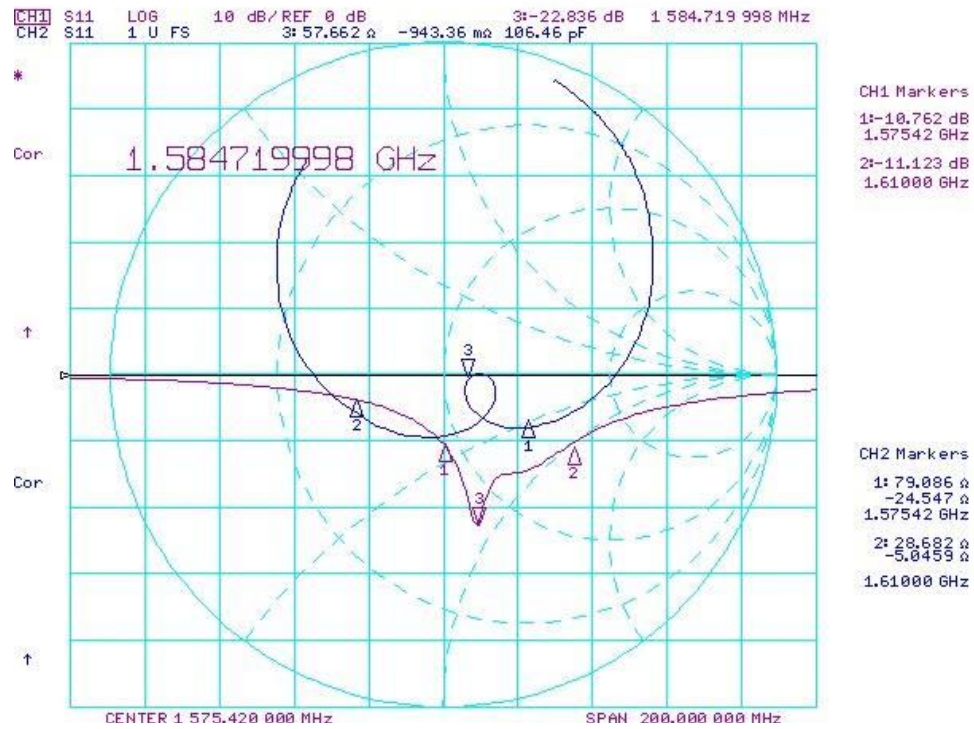
1. Return Loss : GSM/WCDMA



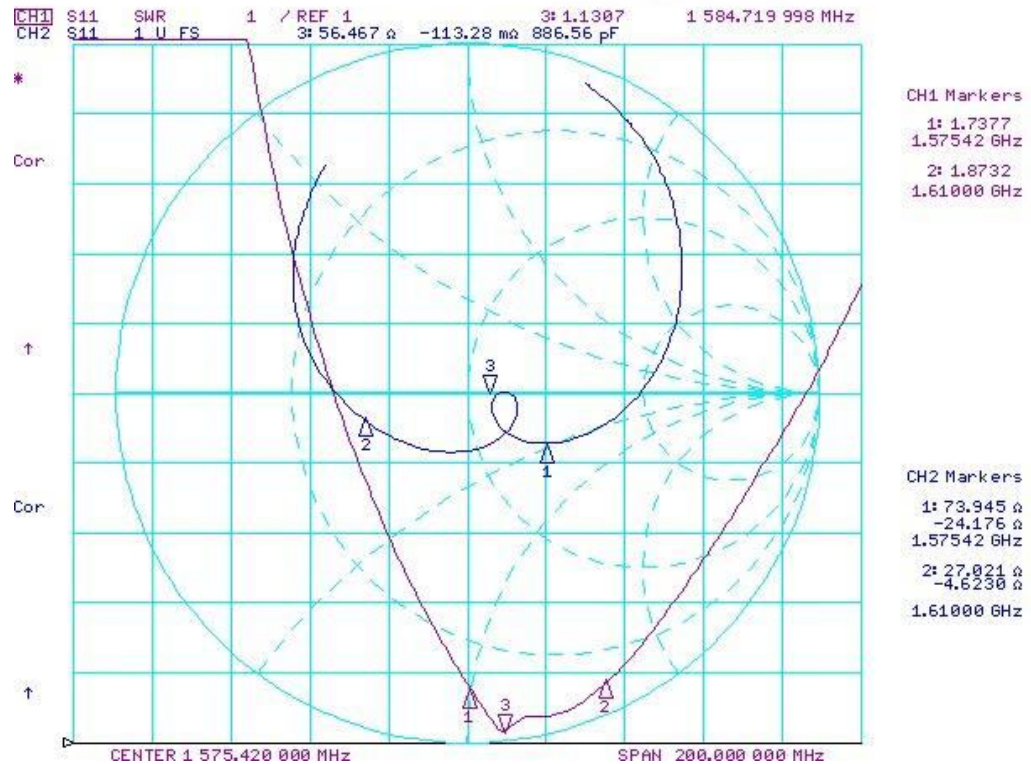
2. VSWR : GSM/WCDMA



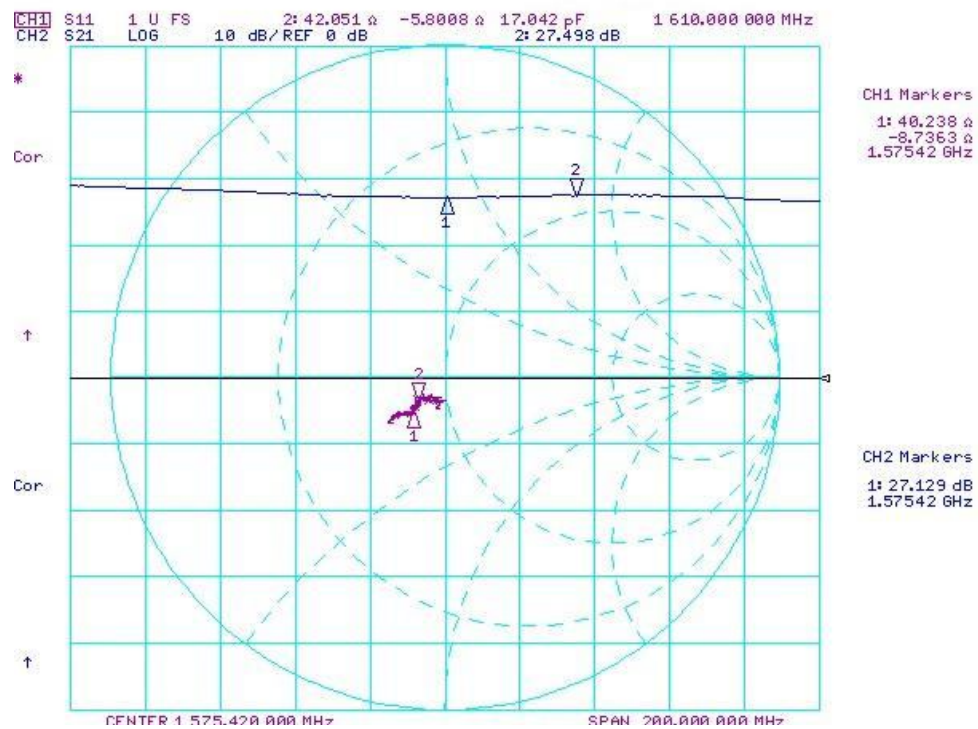
3. Return Loss : GPS



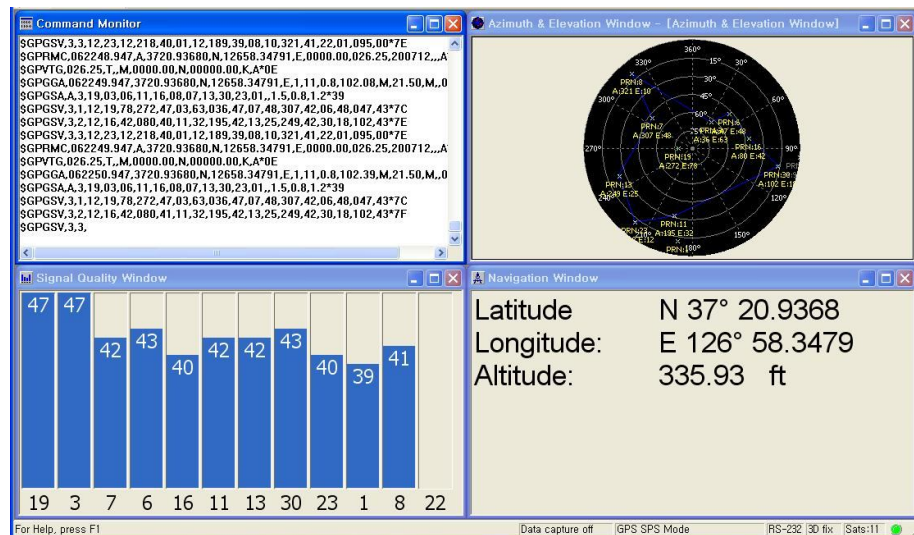
4. VSWR : GPS



5. Gain : GPS



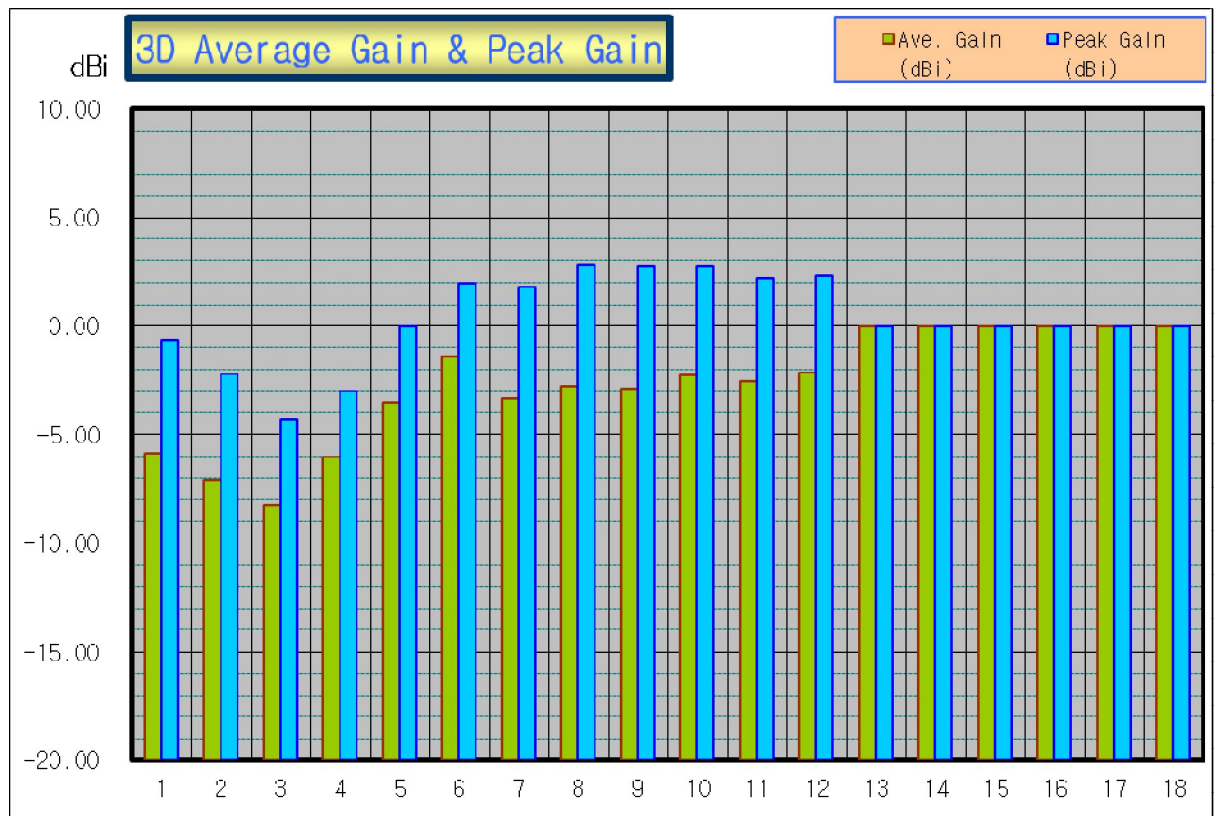
6. SNR : GPS



7. Gain

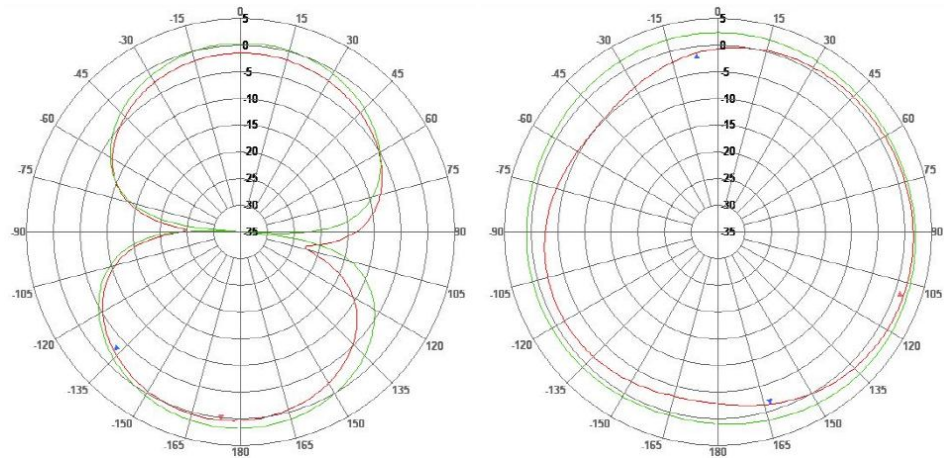
7.1 GSM/WCDMA

Frequency	Eff. (%)	Ave. Gain (dBi)	Peak Gain (dBi)	Directivity (dBi)
824 MHz	26	-5.90	-0.69	5.21
846 MHz	19	-7.11	-2.22	4.89
868 MHz	15	-8.24	-4.28	3.96
912 MHz	25	-6.04	-2.97	3.07
934 MHz	45	-3.51	0.00	3.51
960 MHz	72	-1.44	1.96	3.40
1920 MHz	47	-3.31	1.79	5.10
1950 MHz	53	-2.75	2.84	5.59
1985 MHz	52	-2.86	2.80	5.66
2040 MHz	60	-2.24	2.77	5.01
2070 MHz	56	-2.52	2.19	4.71
2100 MHz	61	-2.14	2.30	4.44

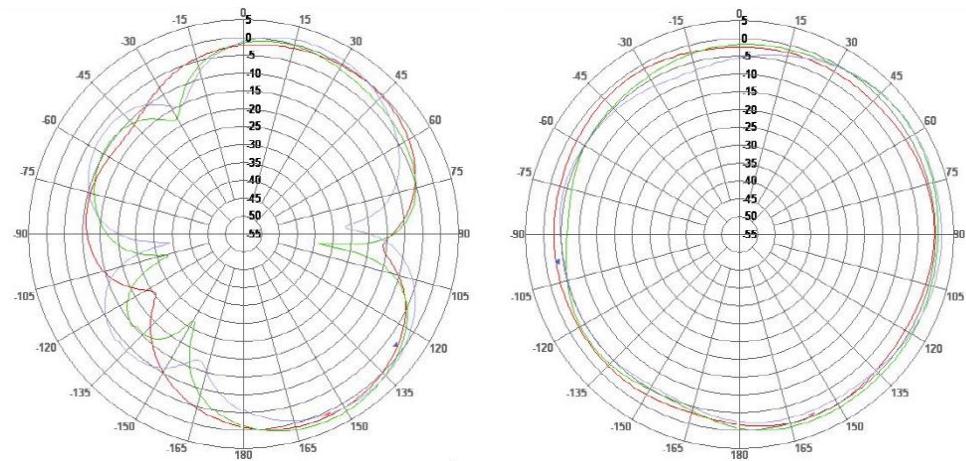


8. Pattern

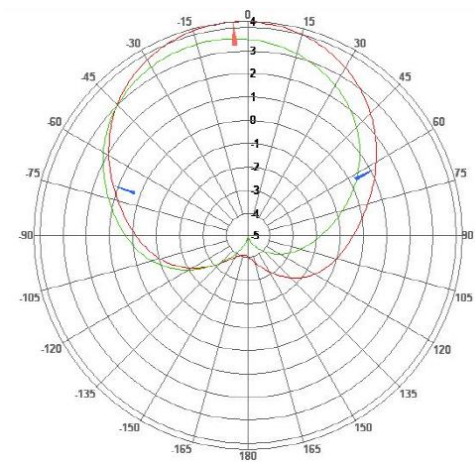
8.1 GSM



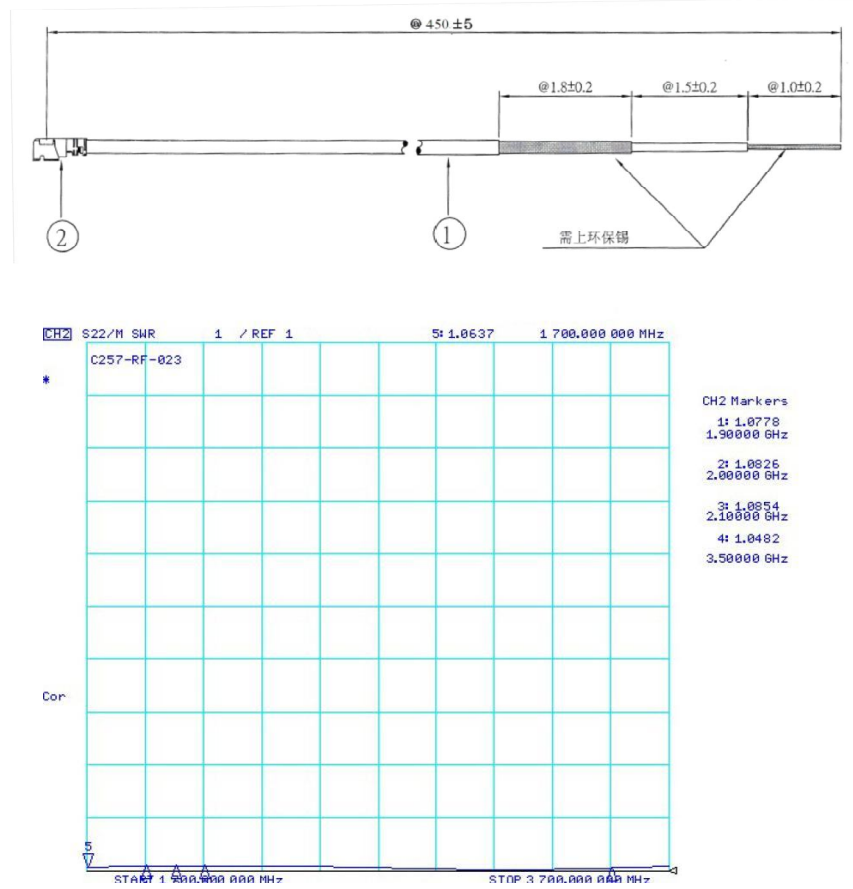
8.2 WCDMA



8.2 GPS



9. RF Coaxial Cable : UFL + Cable + Open



- 참고사항 : 안테나는 bear board 상태에서 측정된 데이터입니다. 물딩시 주파수 이동과 측정값이 달라질 수 있습니다.