

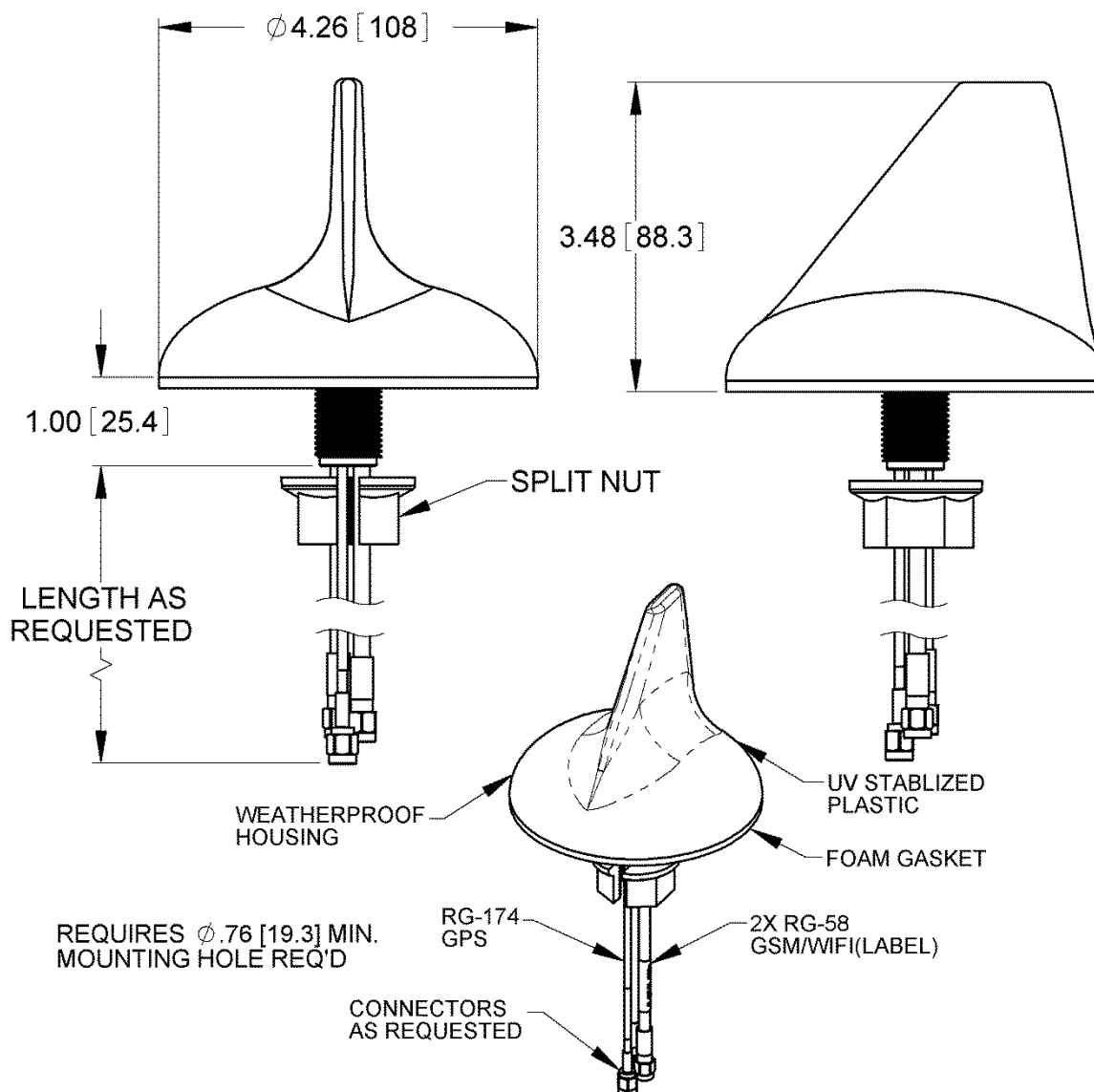


**3 Cable Roof Mount Multi-Band & GPS**

**GPSDM700/5800**

**698-960 / 1710-2170 / 2300-2700, 2400-2485/5150-5875 & GPS**

Series : **ANTENNA**



| PART NO.         | CABLE LENGTH | GPS CABLE | GSM CABLE | WIFI CABLE |
|------------------|--------------|-----------|-----------|------------|
| GPSDM700/5800SSS | 17.0 FT      | SMA       | SMA       | SMA        |
| GPSDM700/5800GGT |              |           |           | RPSMA      |

All dimensions are in inches (mm)

**Issue: 1821**

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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### ELECTRICAL SPECIFICATIONS

|                                         |                                 |          |
|-----------------------------------------|---------------------------------|----------|
| Frequency (GSM Cable )                  | 698-960/1710-<br>2170/2300-2700 | MHz      |
| Frequency (WIFI Cable)                  | 2400-2485/5150-5875             | MHz      |
| Frequency (GPS)                         | 1575.42                         | MHz      |
| Nominal Impedance                       | 50                              | $\Omega$ |
| VSWR (GSM)                              | 2.5:1                           | Max      |
| VSWR (WIFI)                             | 2:1                             | Max      |
| Gain (GPS@3.3V)                         | 28                              | dBi TYP  |
| Gain (GPS@5.0V)                         | 30                              | dBi TYP  |
| Gain (GSM)                              | 4.5                             | dBi TYP  |
| Gain (WIFI)                             | 6.5                             | dBi TYP  |
| HPBW / Horizontal Plane<br>(GSM & WIFI) | Omni                            |          |
| HPBW / Vertical Plane (GSM, 698-960)    | 39                              | ° TYP    |
| HPBW / Vertical Plane (GSM, 1710-2700)  | 35                              | ° TYP    |
| HPBW / Vertical Plane (WIFI, 2400-2485) | 22                              | ° TYP    |
| HPBW / Vertical Plane (WIFI, 5150-5875) | 17                              | ° TYP    |
| Polarization: GPS                       | RHCP                            |          |
| Polarization: GSM/WIFI                  | Linear Vertical                 |          |
| Input voltage (GPS):                    | 3.3-5.0                         | VDC      |
| Current draw (GPS):                     | 12                              | Ma       |
| Noise figure (GPS):                     | 1.3                             | dB       |
| Power rating (GSM, 698-960)             | 100                             | W        |
| Power rating (GSM, 1710-2700)           | 20                              | W        |
| Power rating (WIFI, 2400-5875)          | 20                              | W        |
| Connector types:                        | As Requested                    |          |

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|                          |                        |
|--------------------------|------------------------|
| Cable type: (GSM & WIFI) | RG-58 UD or equivalent |
| Cable type: (GPS)        | RG-174                 |
| Length:                  | As requested FEET      |

### MECHANICAL SPECIFICATIONS

|                            |                                                                    |
|----------------------------|--------------------------------------------------------------------|
| Plastic radome:            | PC/ABS, UV protected                                               |
| Color:                     | Black                                                              |
| Ingress Protection:        | IP65                                                               |
| Weight                     | 470 g                                                              |
| Overall length:            | See page 1 INCHES                                                  |
| Cable retention: Pull off: | 30 N                                                               |
| Strain relief              | 30N, applied to cable along axis and perpendicular to cable entry. |
| Fixing system:             | Roof mount                                                         |

### ENVIRONMENTAL SPECIFICATIONS

|                       |                                                |
|-----------------------|------------------------------------------------|
| Operating temperature | -40/+85 ° C                                    |
| Thermal shock         | MIL-STD 810G, section 503.4 3 cycles           |
| Humidity:             | MIL-STD 810G, method 507.4 – 93% @ 30° C       |
| Vibration             | MIL-STD 810G, section 514.6 5-500 Hz           |
| Drop test:            | Minimum of one drop per axis – 3 drops 1 meter |

### E-Mark certification

Compliant with ECE R118 Rev.2-2012, E-Mark certificated.

The test is conducted accordance with ECE R118 Rev.2-2-12 Uniform technical prescriptions concerning the burning behavior and/or the capability to repel fuel or lubricant of materials used in the construction of certain categories of motor vehicles clause 6.2.6.

Test method based on ISO 6722-1:2011 Road vehicles --60 V and 600 V single-core cables -- Dimensions, test methods and requirements Clause 5.22 Resistance of flame propagation.

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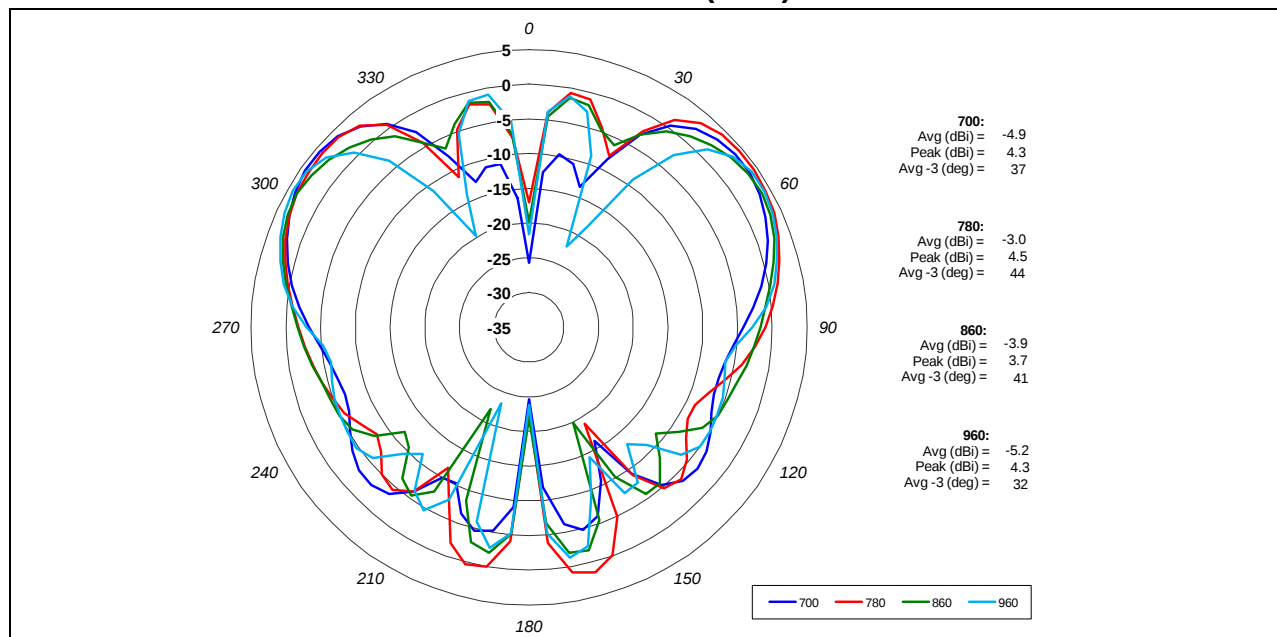
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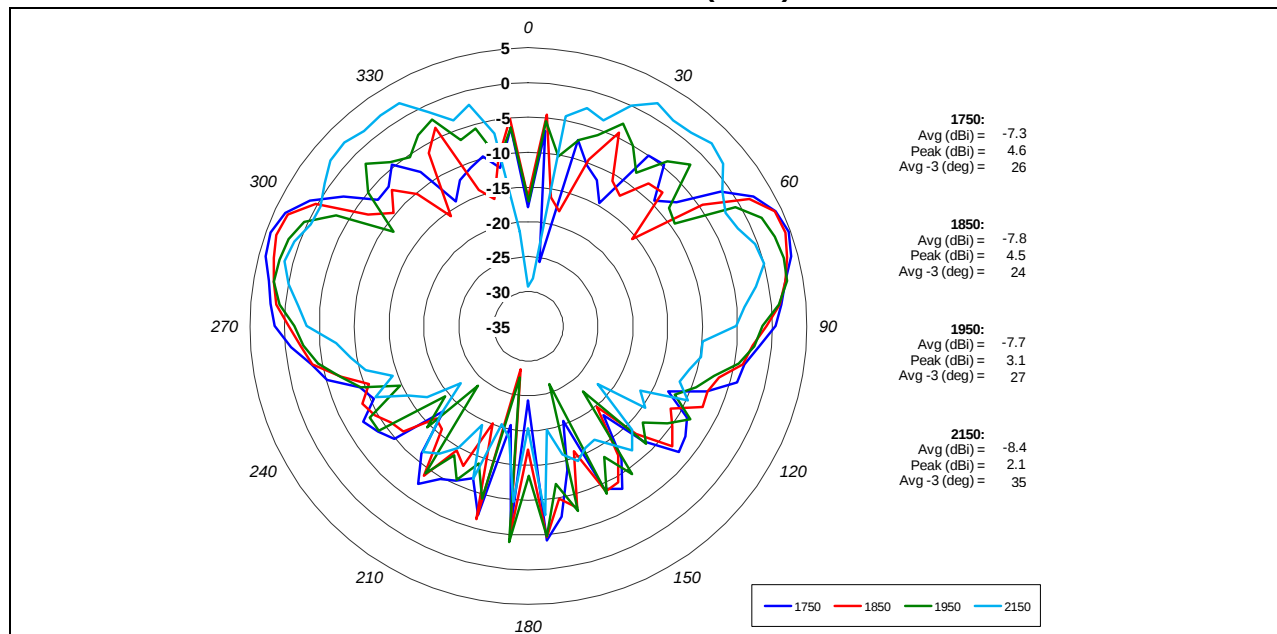
**Series : ANTENNA**

**Charts – Measured with 6" cable and on 42.0" diameter ground plane**

**Vertical Plane (GSM)**



**Vertical Plane (GSM)**



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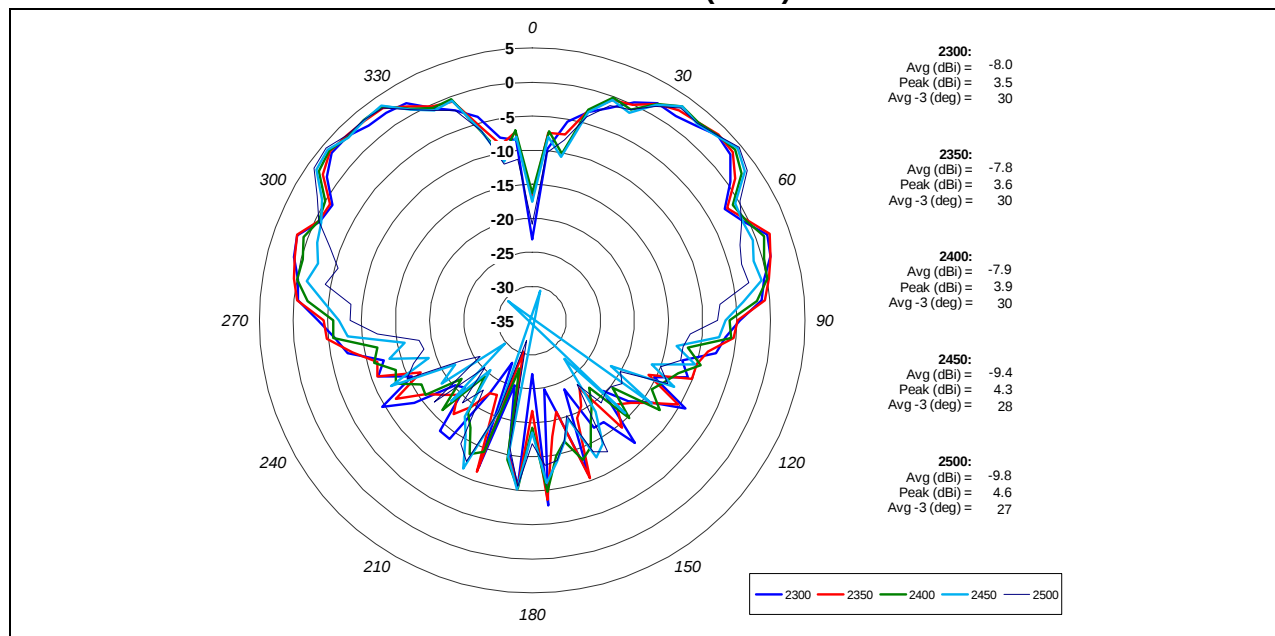
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**GPSPDM700/5800**

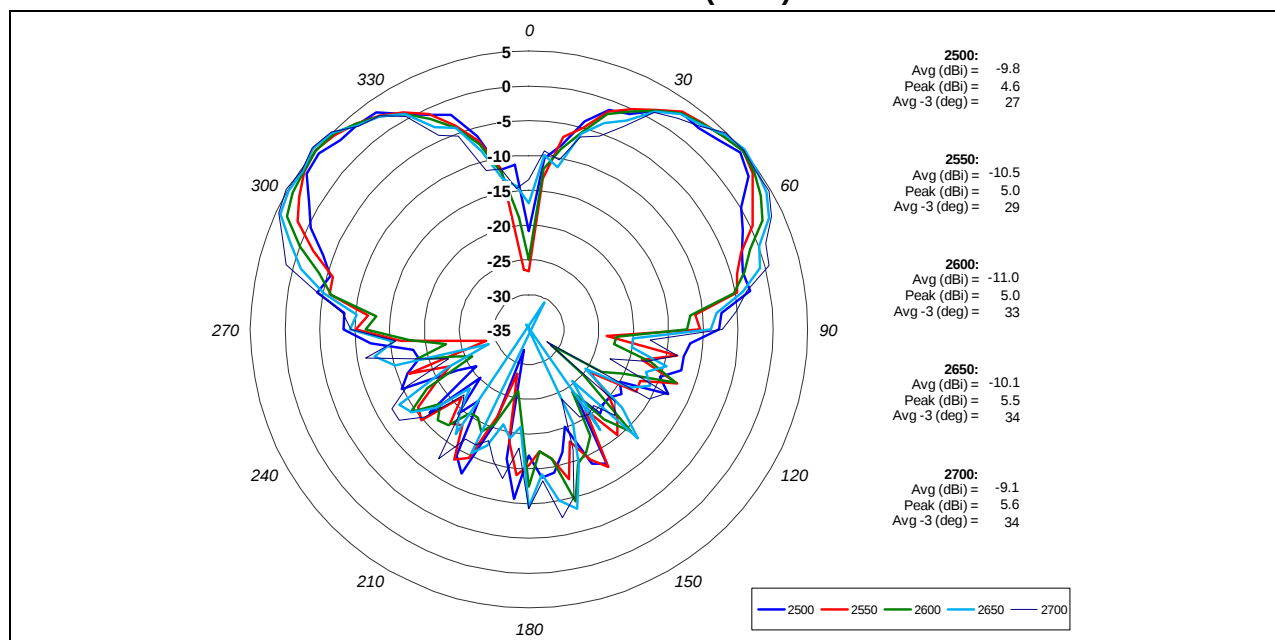
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**Series : ANTENNA**

**Vertical Plane (GSM)**



**Vertical Plane (GSM)**



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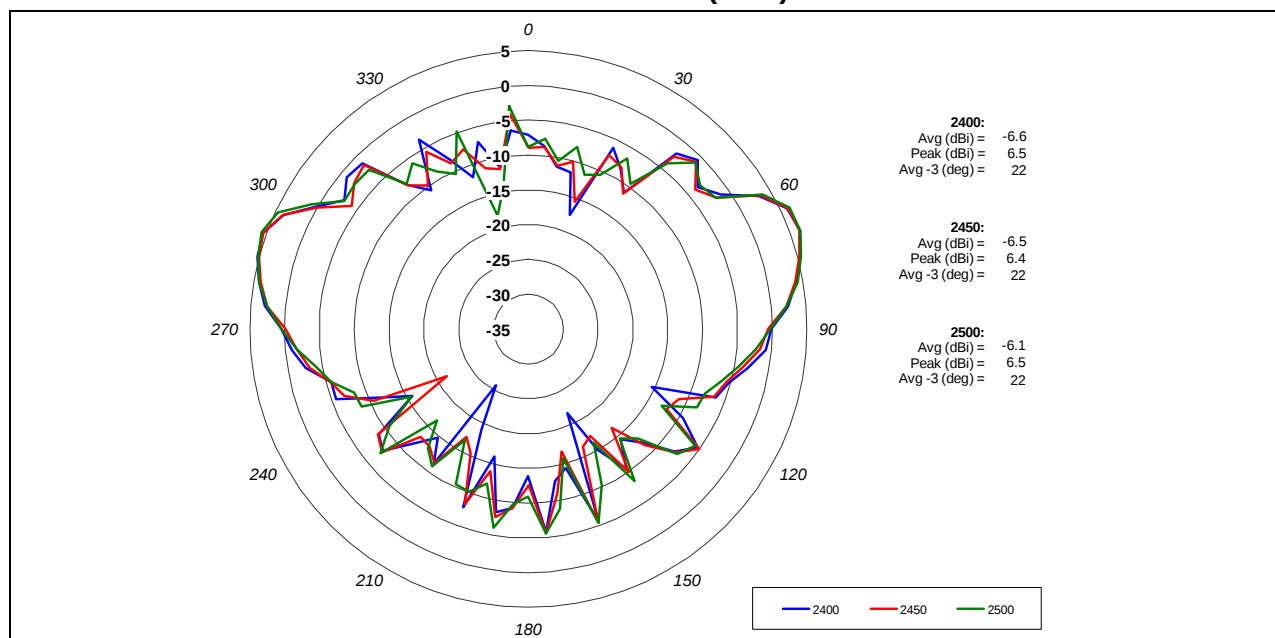
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**GPSDM700/5800**

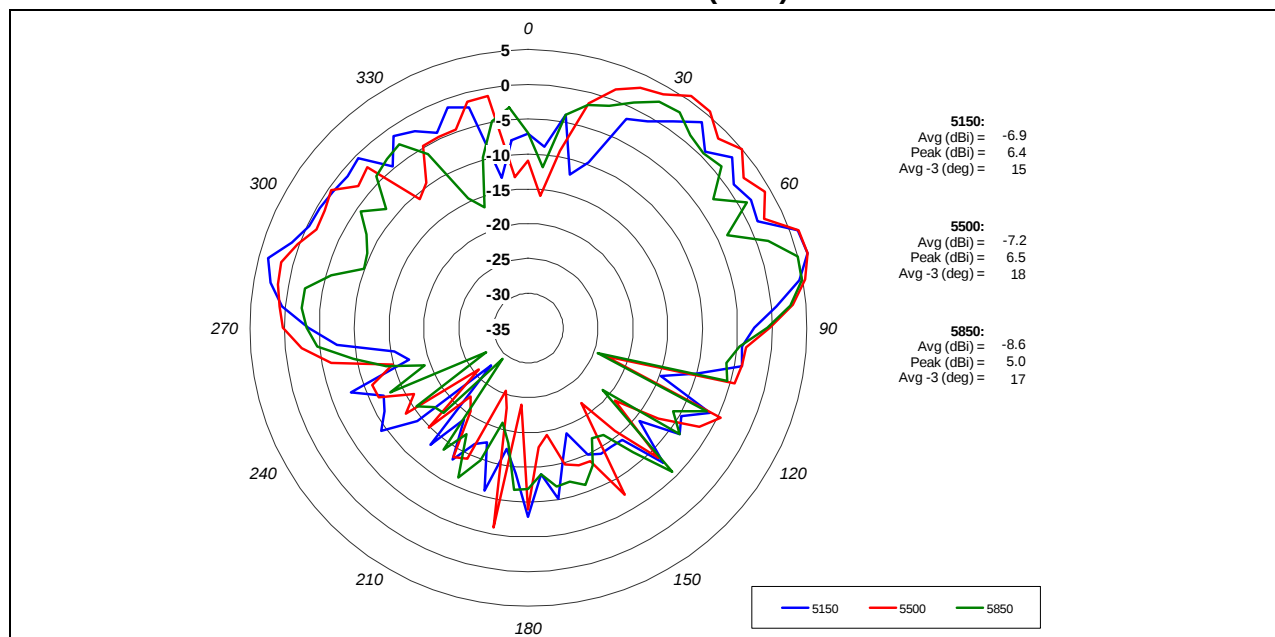
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**Series : ANTENNA**

**Vertical Plane (WIFI)**



**Vertical Plane (WIFI)**



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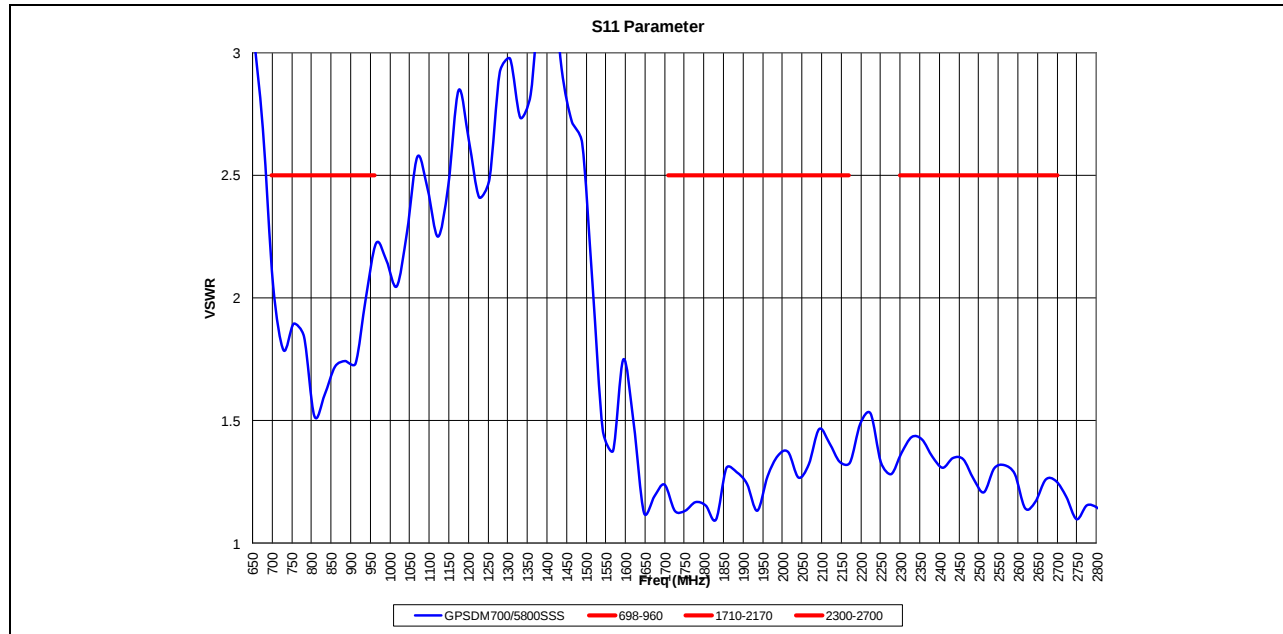
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**GPSDM700/5800**

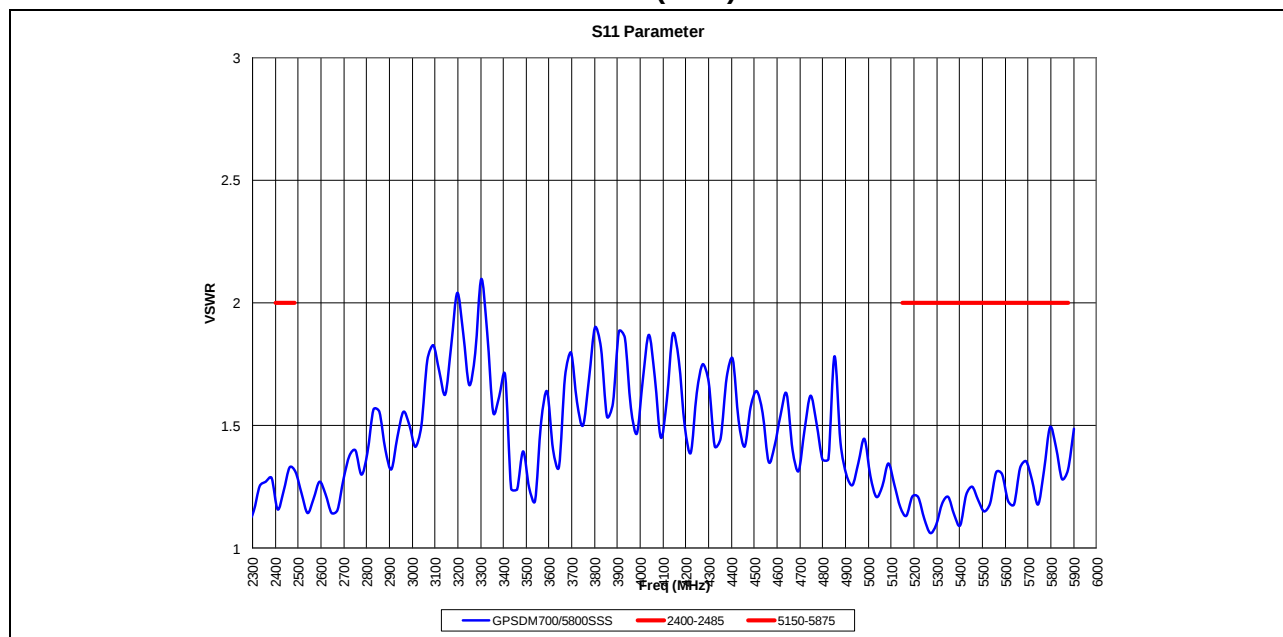
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**Series : ANTENNA**

**VSWR (GSM)**



**VSWR (WIFI)**



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