



3 Cable Roof Mount Multi-Band & GPS

GPSDM700/5800

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

Series : ANTENNA

ELECTRICAL SPECIFICATIONS

Frequency (GSM Cable)	698-960/1710- 2170/2300-2700	MHz
Frequency (WIFI Cable)	2400-2485/5150-5875	MHz
Frequency (GPS)	1575.42	MHz
Nominal Impedance	50	Ω
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 (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	

Issue: 1821

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

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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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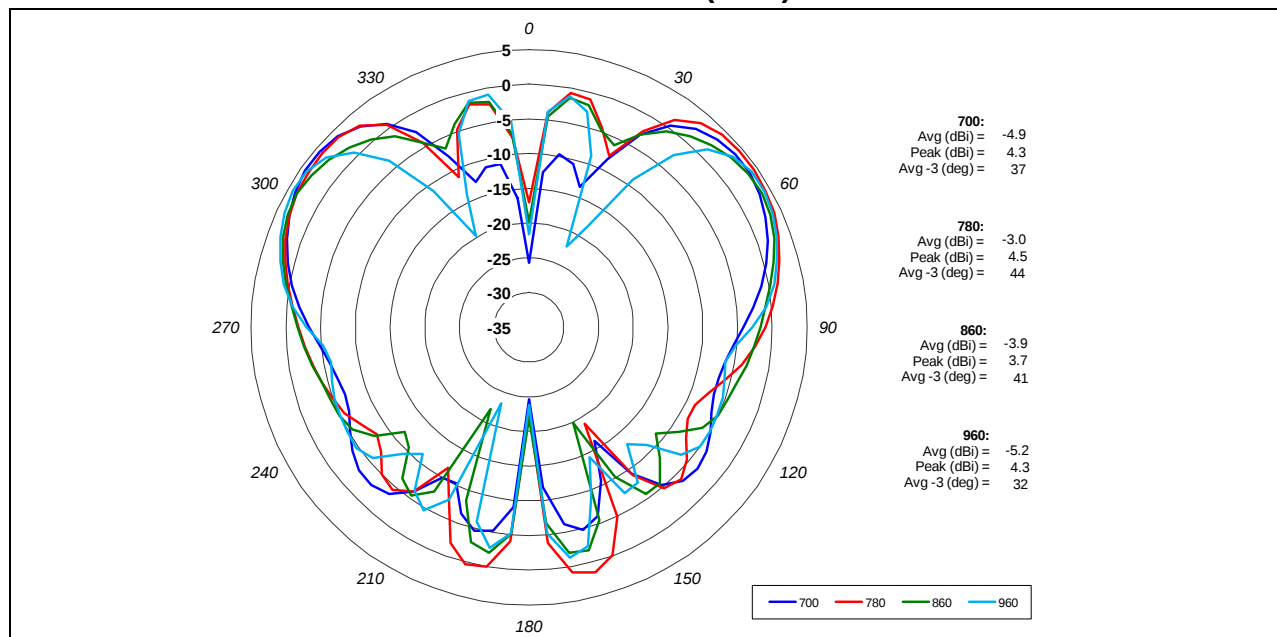
GPSPDM700/5800

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

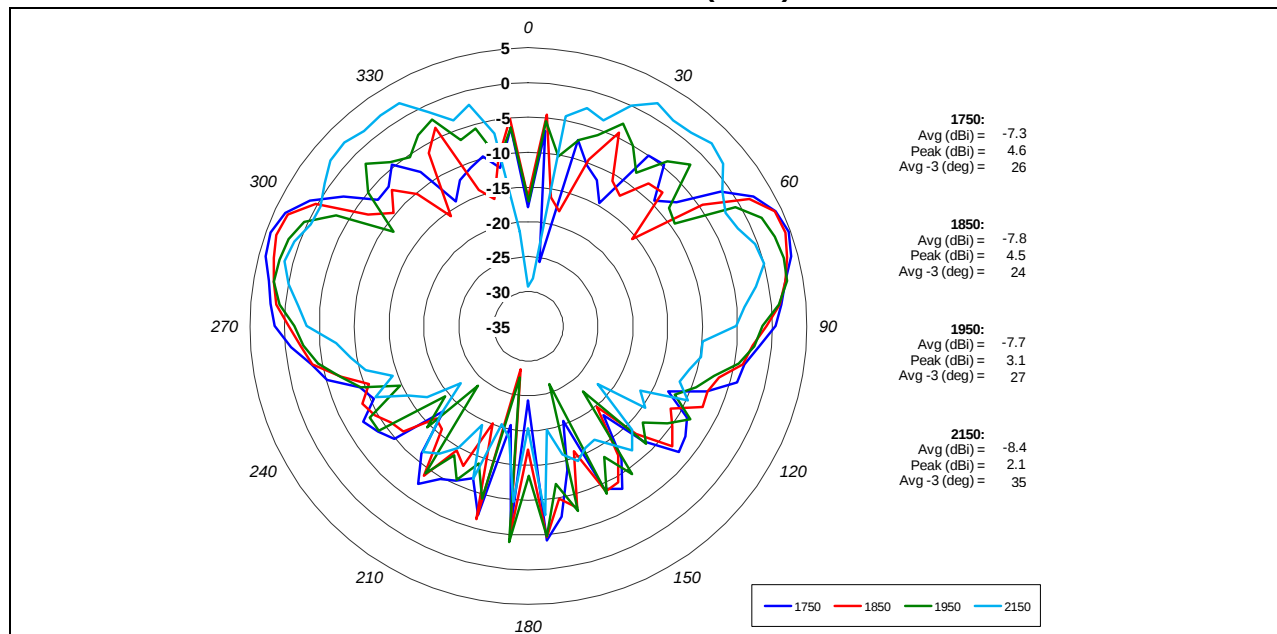
Series : ANTENNA

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

Vertical Plane (GSM)



Vertical Plane (GSM)



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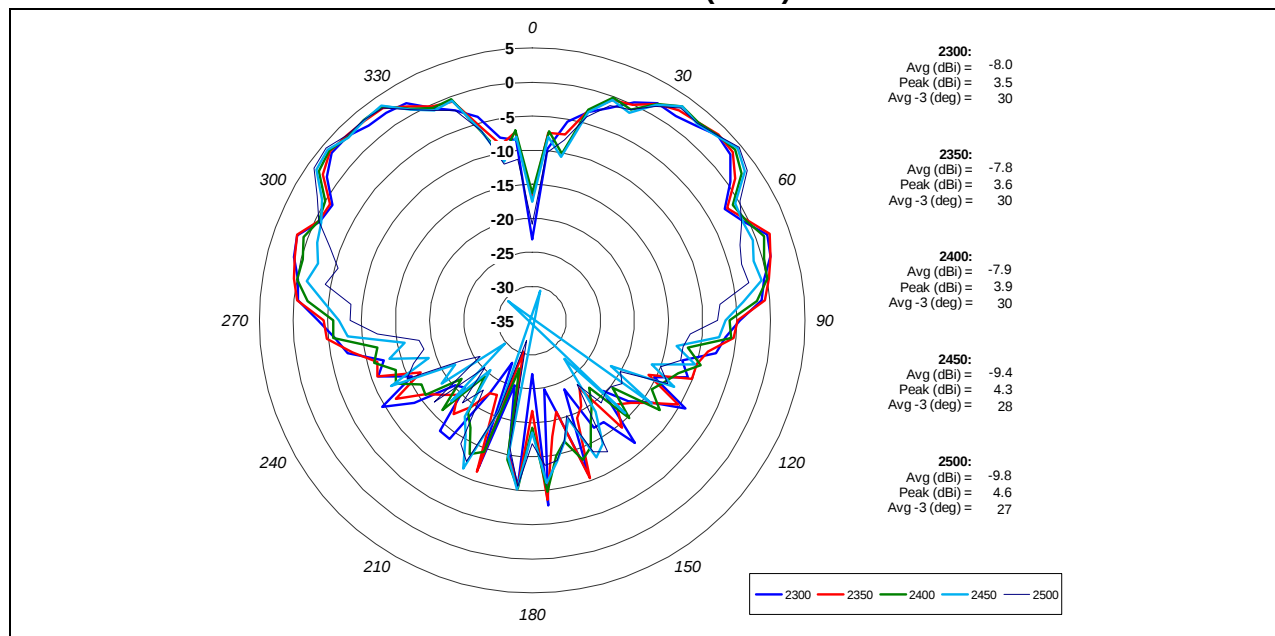
3 Cable Roof Mount Multi-Band & GPS

GPSPDM700/5800

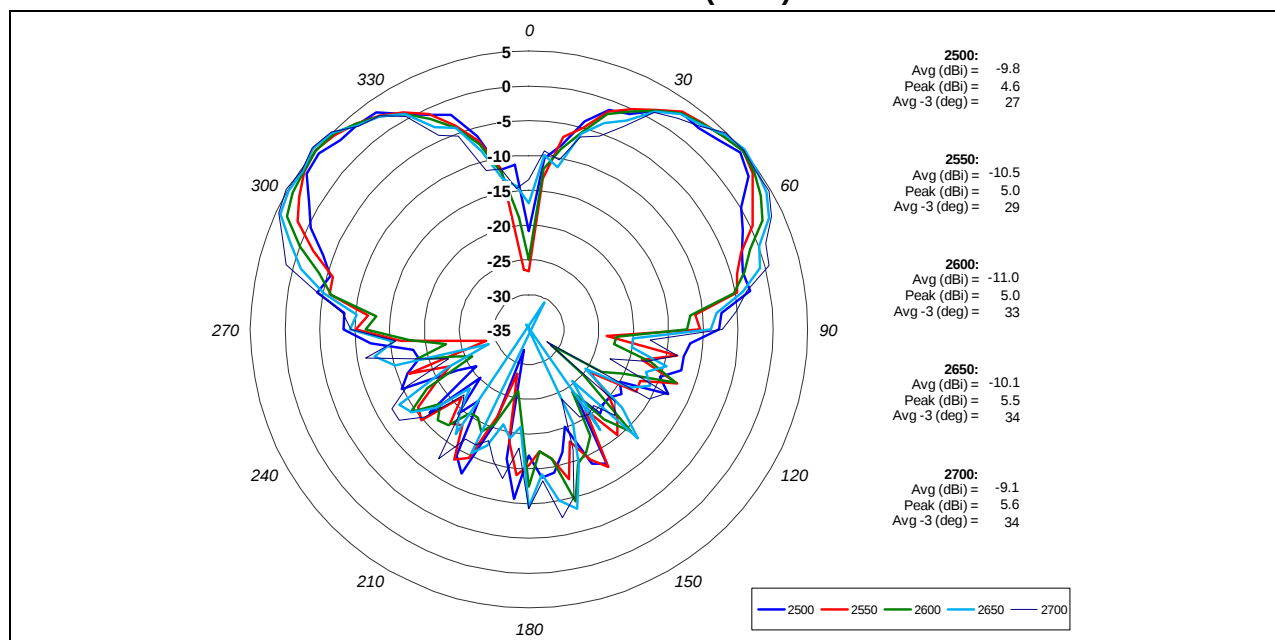
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Series : ANTENNA

Vertical Plane (GSM)



Vertical Plane (GSM)



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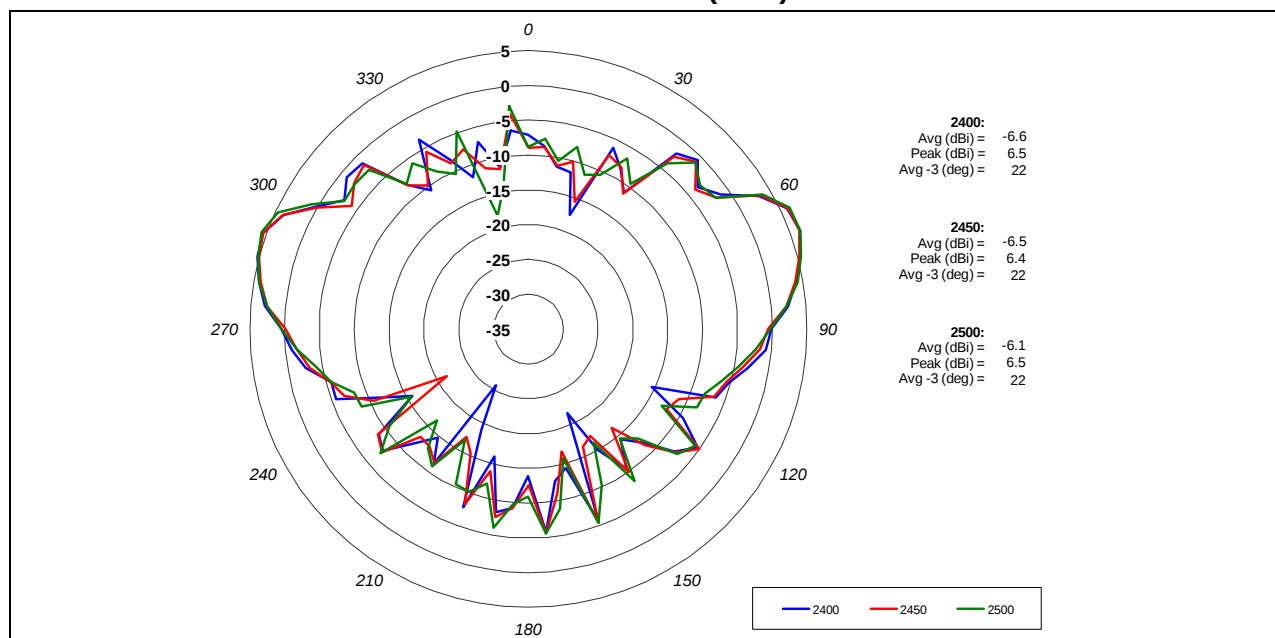
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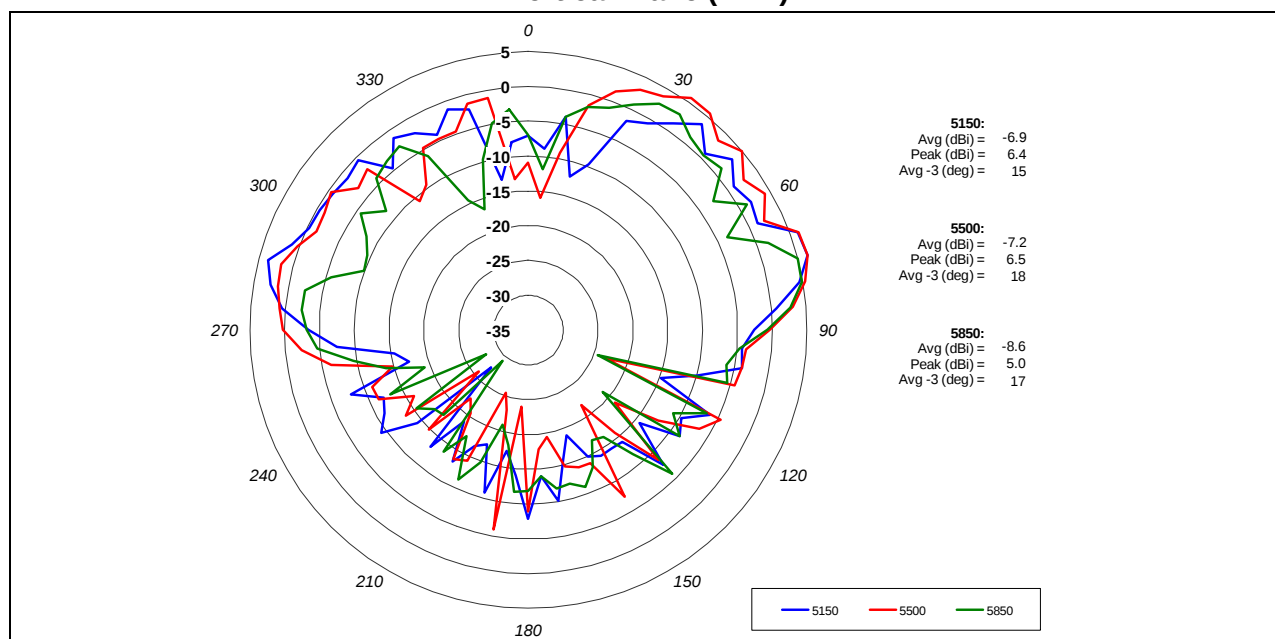
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Series : ANTENNA

Vertical Plane (WIFI)



Vertical Plane (WIFI)



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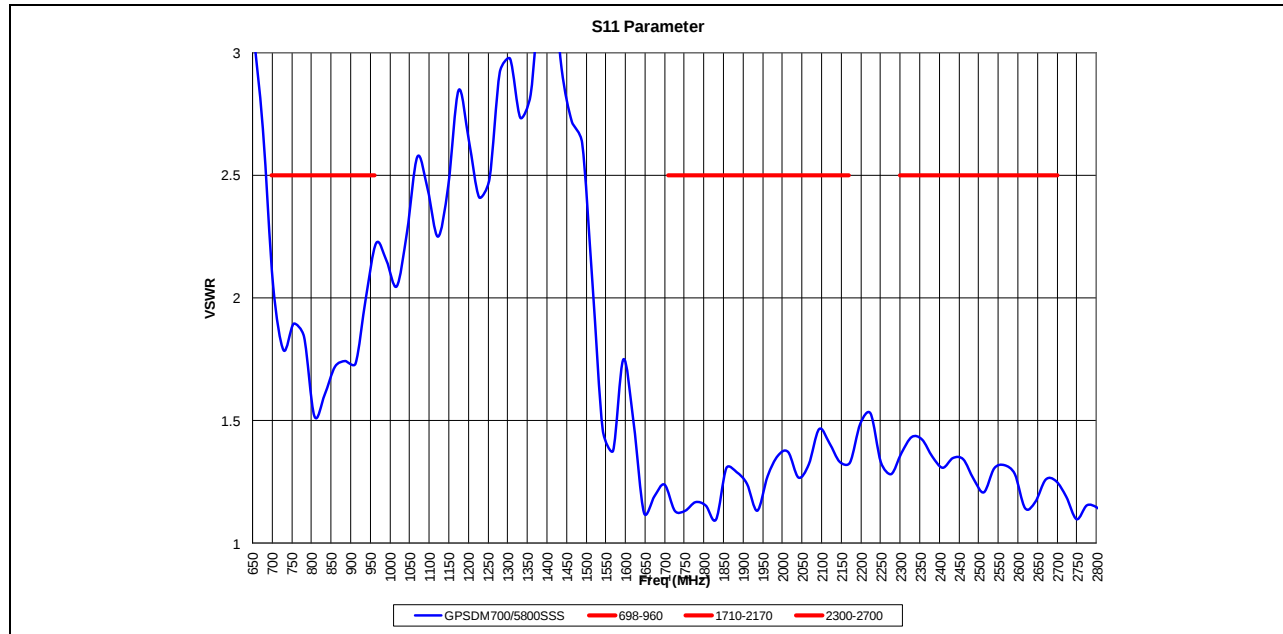
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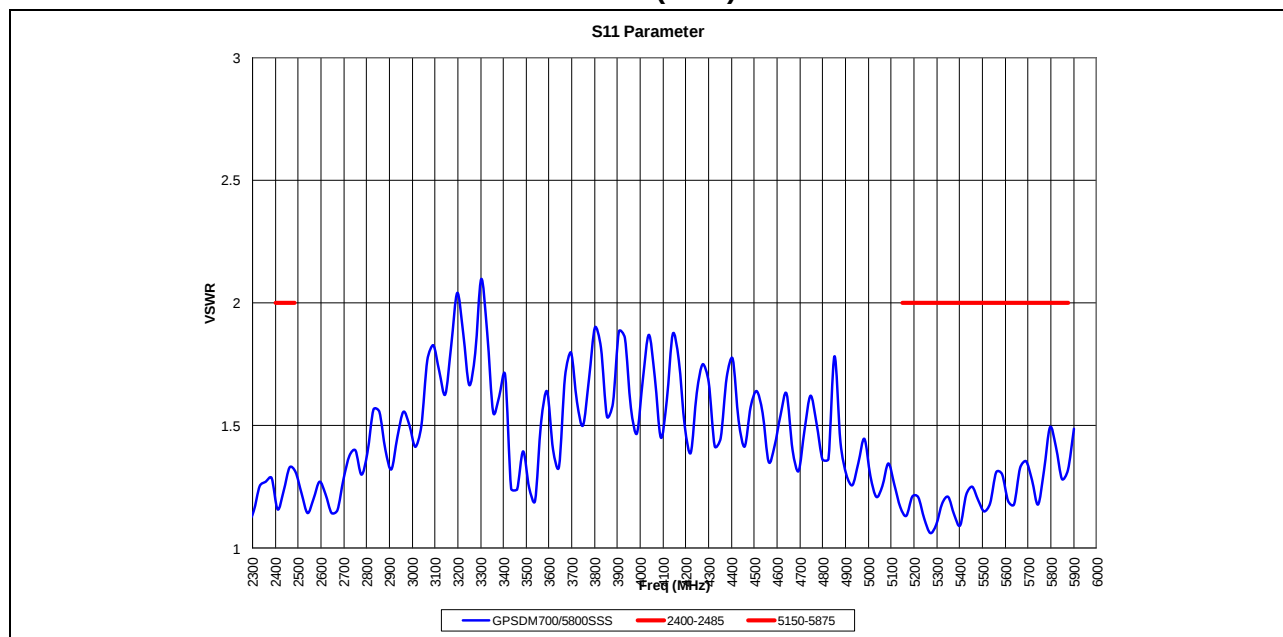
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Series : ANTENNA

VSWR (GSM)



VSWR (WIFI)



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