

Spiral Antenna with Radome

18 to 42 GHz

Right Hand Circularly Polarised (RHCP)

Catalogue number: **QSP-RC-18-42-K-SG-L**

Q-par reference: **QMS-00051**

Contents: **Summary**
Typical Antenna Gain / Axial Ratio
Typical Beamwidth / Patterns
Measurement Diagram
VSWR



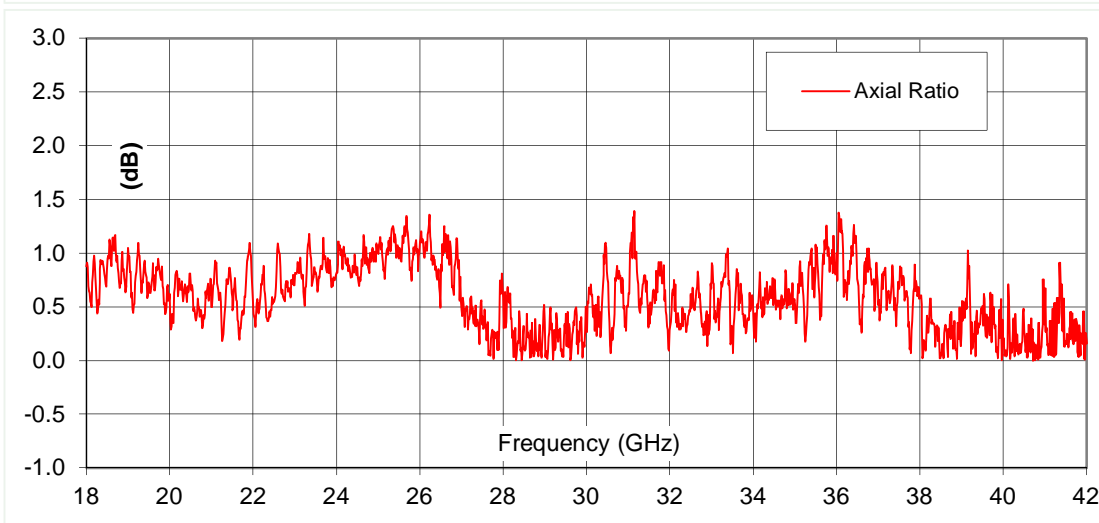
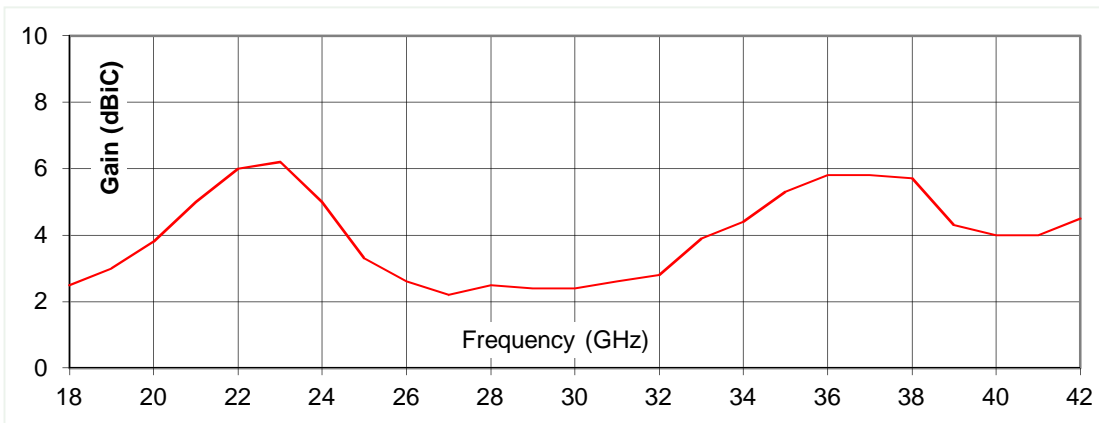
Test Report

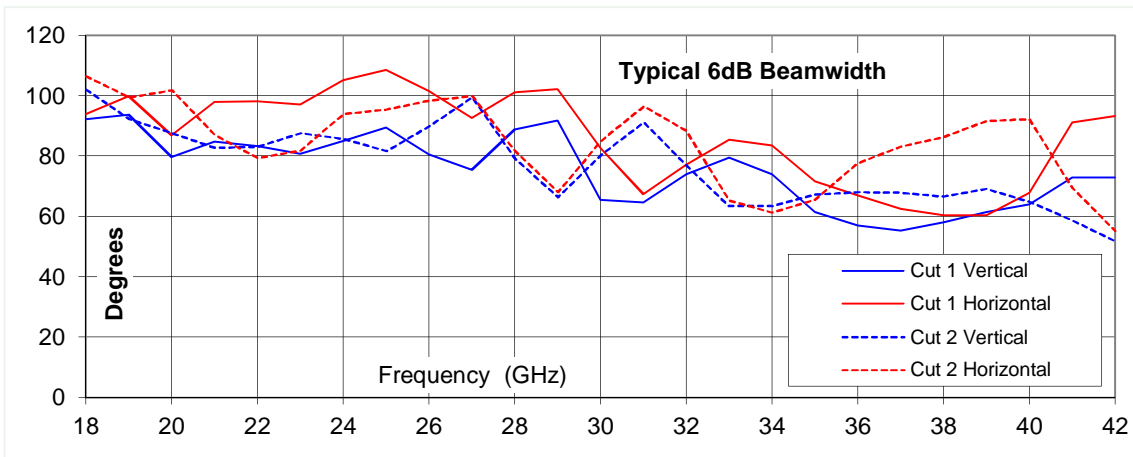
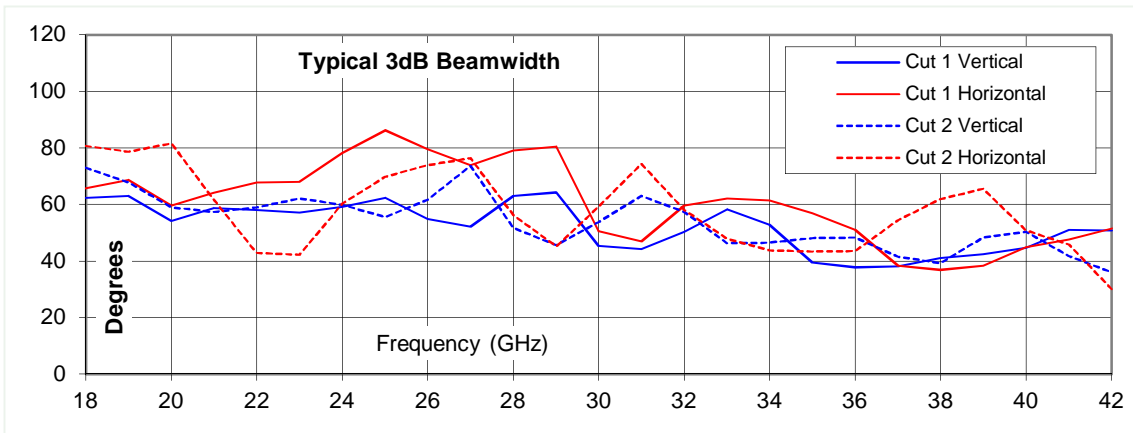
Typical Specification

Frequency	18 to 42 GHz
Connector type	K type (2.92mm) jack
Power Handling	2 Watt c.w.
VSWR	Typically < 2.5 :1
Gain	2.2 to 6.2 dBiC
3dB Beamwidth	47 to 94 degrees
Axial ratio	< 2 dB
Weight	40 g
Size - max.	35.4 mm diameter flange x 55 mm long
Mounting	6 holes, diameter 3.2 mm, 30 mm p.c.d.
Construction	Aluminium and Engineering Plastics

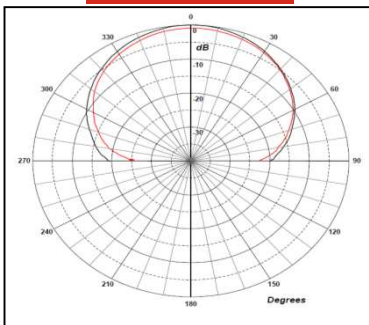
Typical Antenna Gain / Axial Ratio

This is calculated using the 3 antenna method and by reference to standard gain horn antennas with an estimated error of +/- 0.8 dB.

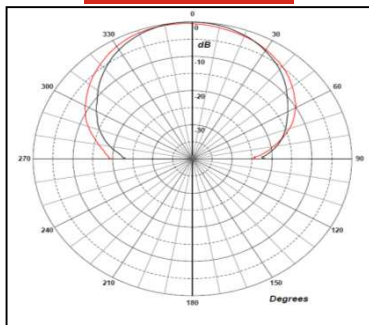




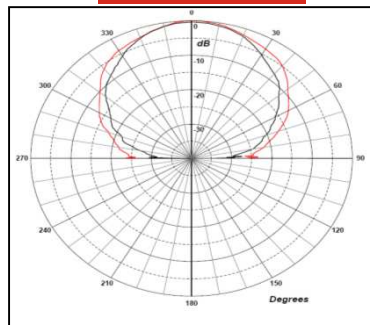
18 GHz



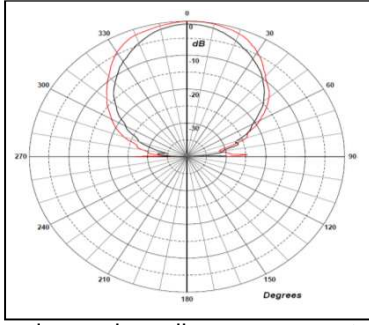
24 GHz



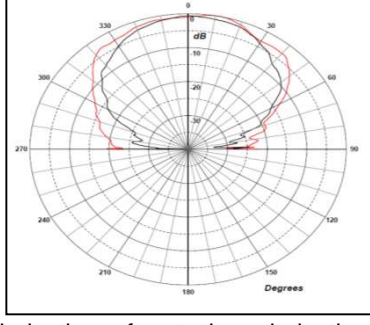
30 GHz



36 GHz

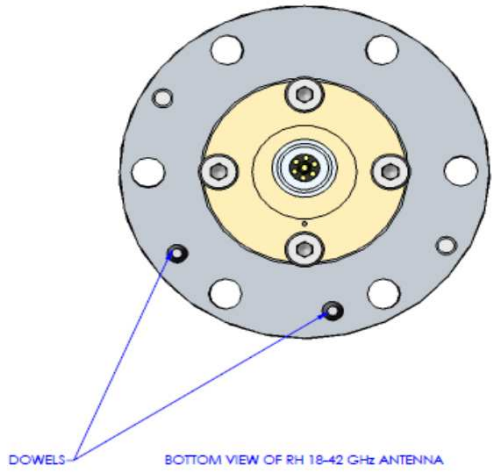


42 GHz

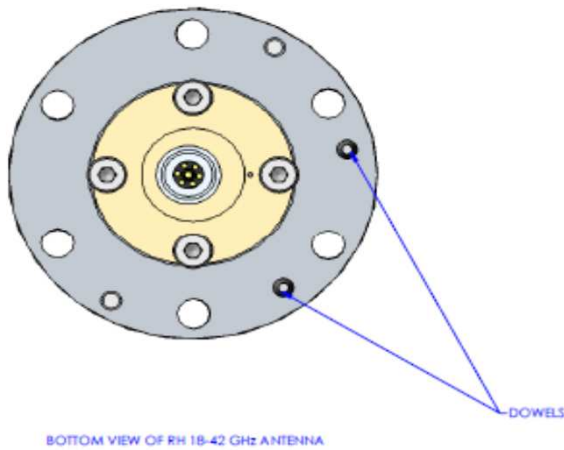


Patterns are done using a linear source antenna , polarisation refers to the polarisation of the source horn.
 Pattern plots: **Red trace = Horizontal pol source**, **Black trace = Vertical pol source**

Cut 1 and Cut 2 definitions, viewed from rear of antenna
Vertical and Horizontal refers to the polarisation of the linear
source antenna.



Cut 1



Cut 2