

Reference – 5G Testing of Jago Manufactured Concealments

All our GRP concealment products are designed to our specification that we have developed since 2003 from undertaking concealment work for the telecommunications industry. Our GRP manufacturing experience has been established since 1972.

Please see a summary of the tests below. These test results only relate to our design of GRP concealment and as such are not to be taken as a generic result across the board from other manufacturers. Not all GRP is the same. Please note, the test were carried out on a GRP composition we have developed in response to the recent discussions on the suitability of GRP concealments with regard to 5G. This test does not cover all angles and shapes that we are likely to manufacture, but we will now push on with further testing. That said, we understand there is not likely to be a great deal if any difference in the results.

A number of drive tests were carried out for each material/frequency band combination.

Measurements were made in the area in front of the test setup, using a fast sampling receiver. These results were then tiled on a 5m grid, in order to remove fast fading effects, with a percentile value for the group of all measurements within each 5m tile returned.

Each set of measurements was compared against a baseline measurement made with the frame structure in place with no GRP fitted.

Measurement Receiver: Rohde & Schwarz TSMA6.

Measurement Rate: 100/s

Receive Antenna: Cobham XPO2V

Low Band Transmit Antenna: Commscope RVVPX305-10R3

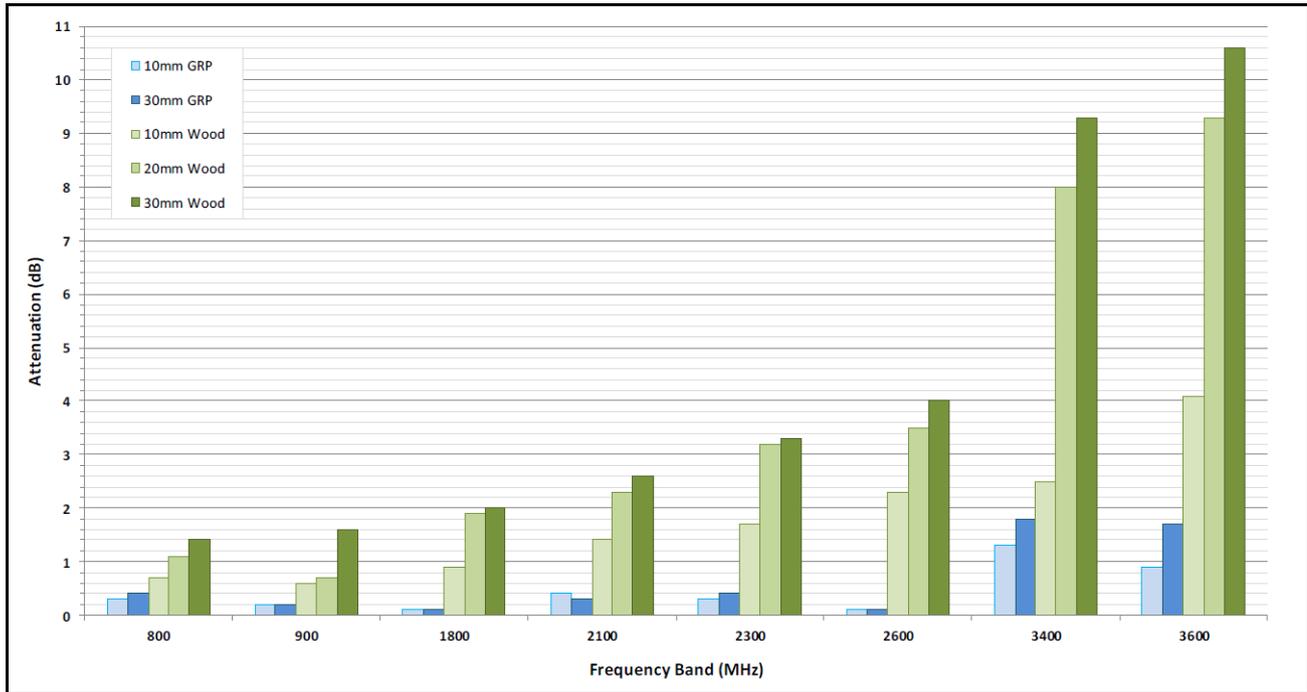
High Band Transmit Antenna: Commscope SSPX310M

Frequency Bands Tested: 800MHz, 900MHz, 1800MHz, 2100MHz, 2300MHz, 2600MHz, 3400MHz, 3600MHz.

Materials Tested: 10mm and 30mm GRP

Median dB loss

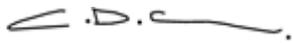
Band (MHz)	10mm GRP	30mm GRP
800	0.3	0.4
900	0.2	0.2
1800	0.1	0.1
2100	0.4	0.3
2300	0.3	0.4
2600	0.1	0.1
3400	1.3	1.8
3600	0.9	1.7



I will of course keep you updated on the further test results.

I hope this helps to demonstrate that our concealments manufactured to our specification are 5G compatible.

Colin Farren



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