

## Justification of the extended calibration of Dipole D1900V2 SN:5d143

Per KDB 865664, we have measured the Impedance and Return Loss as below.

- 1) The most recent return-loss result, measured at least annually, deviates by no more than 20% from the previous measurement.
- 2) The most recent measurement of the real or imaginary parts of the impedance, measured at least annually is within 5 ohm from the previous measurement.

Dipole 1900 Head TST	Target Value	Measured Value	Difference
Impedance transformed to feed point	53.4Ω+4.3j Ω	49.75Ω+7.52j Ω	R=-3.65Ω,X=3.22Ω
Return Loss	-25.6dB	-25.32 dB	-1.09%
Dipole 1900 Body TST	Target Value	Measured Value	Difference
Impedance transformed to feed point	49.1Ω+5.9j Ω	46.18Ω+2.21j Ω	R=-2.92Ω,X=-3.69Ω
Return Loss	-24.4 dB	-24.5 dB	0.41%
Measured Date	2017-09-20	2018-09-20	-----

