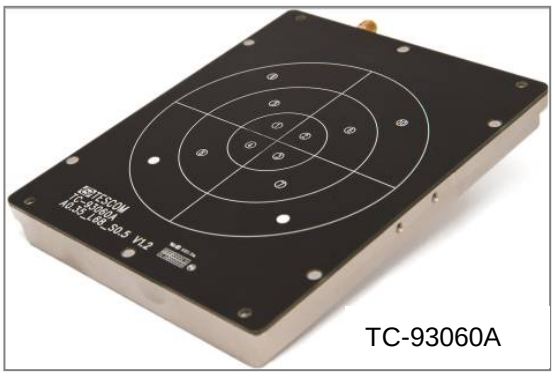
Concentric Technology Solutions Inc

Testing Solutions for the Wireless Industry

TC-93060A/93061A Type Antenna Coupler



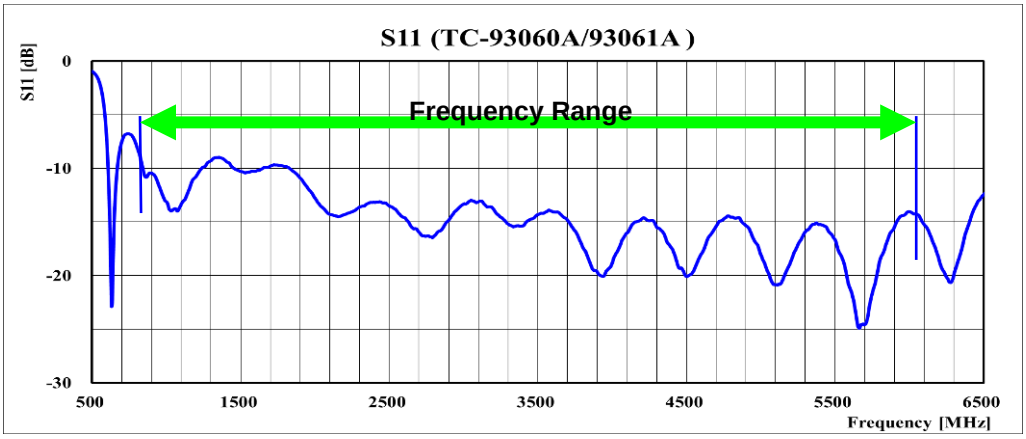
TC-93060A

TC-93061A

Specification

Frequency Range	800 ~ 6000 MHz
RF Connector	SMA(M)
Dimension	106(W) x 130(D) x 15.6(H) mm
Weight	300 g
Terminal	50 ohm
VSWR	better than 1 : 2.2 (Typ 1.8)
Polarization	TC-93060A(LHCP), TC-93061A(RHCP)

Typical S11 and VSWR Data of TC-93060A/93061A (T=25℃)



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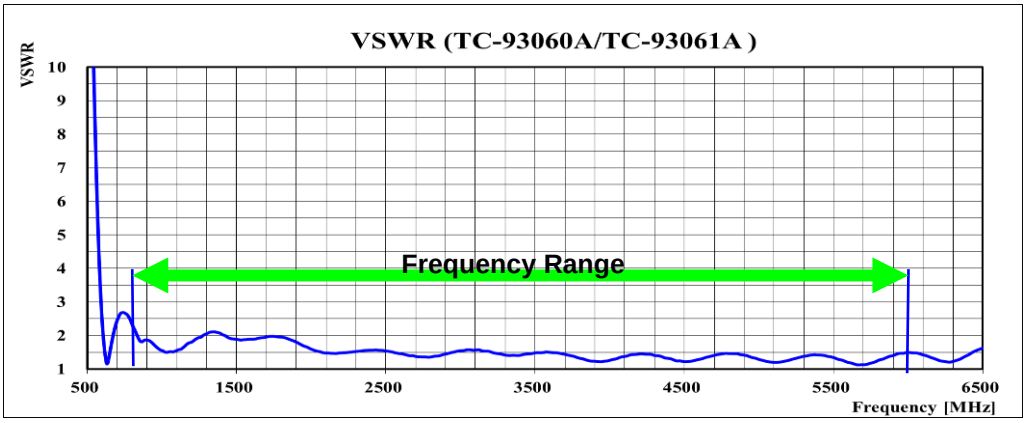
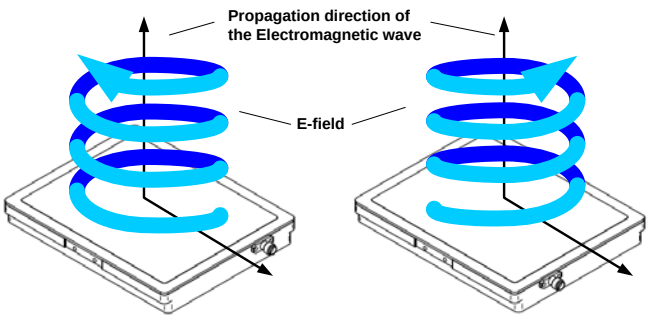


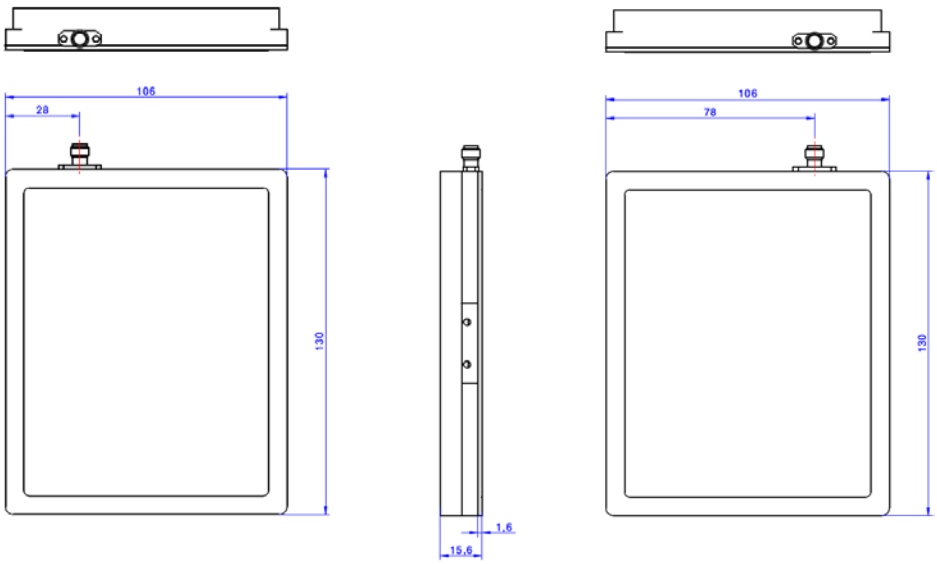
	800 MHz	1.5 GHz	1.8 GHz	2.4 GHz	5.8 GHz
S11	-9.4 dB	-10.3 dB	-9.82 dB	-13.19 dB	-14.39 dB
SWR	2.14	1.89	1.95	1.56	1.48

Polarization of TC-93060A/93061A



TC-93060A (LHCP) TC-93061A (RHCP)

Dimensions



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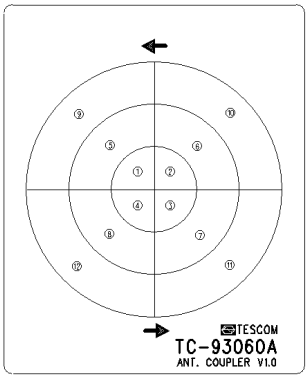
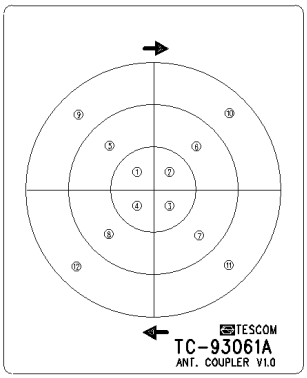
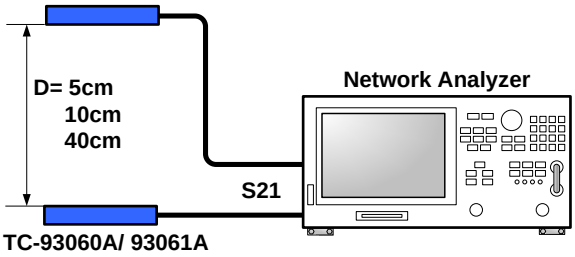
TC-93060A



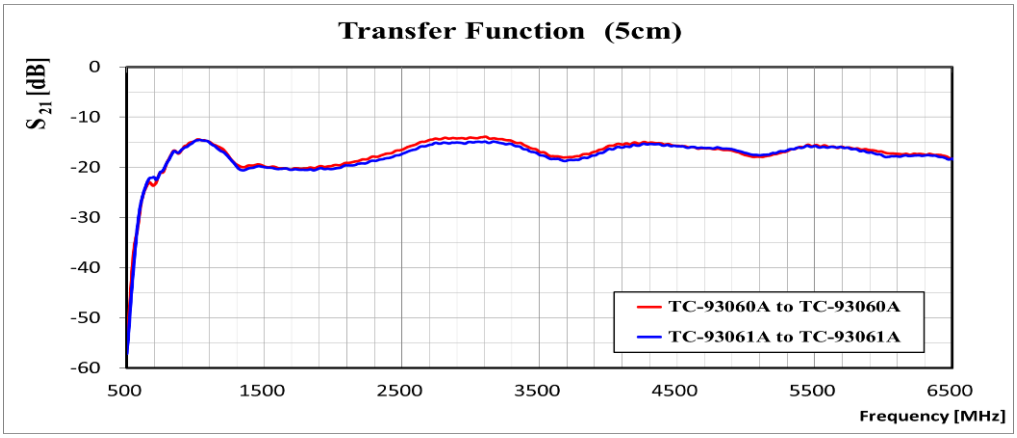
TC-93061A

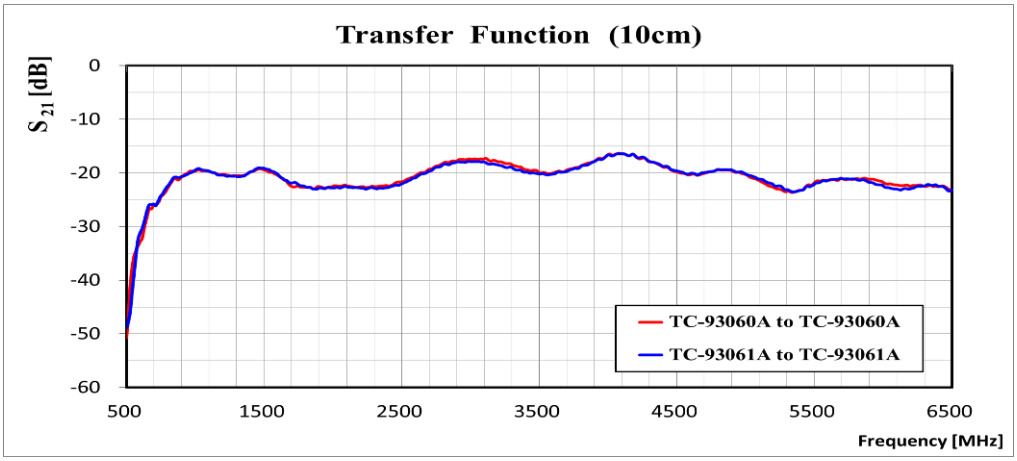


Transfer function difference between TC-93060A/93061A



Test Environment





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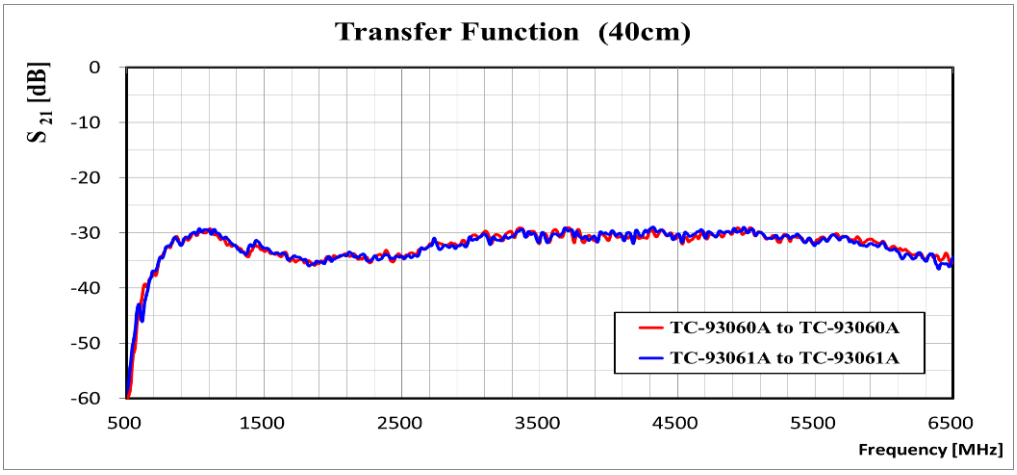
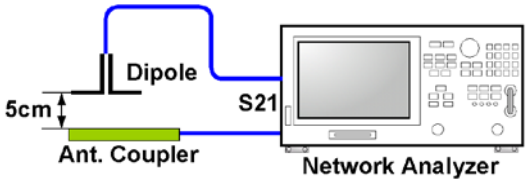
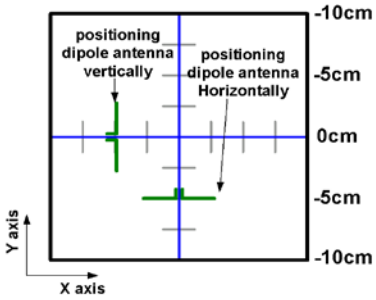


Field distribution of TC-93060A/93061A

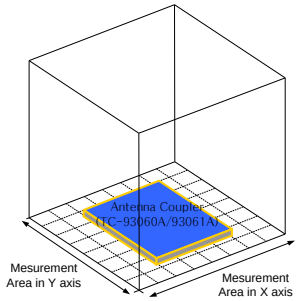
- Measured in open area through Dipole Antenna (0.9 &1.8 &2.4 &5.8 GHz, Tescom)
- Distance from Antenna Coupler (TC-93060A/93061A) to Dipole Antenna: 5 cm



Environment setup for measuring Field distribution



Positioning Dipole Antenna



Antenna Coupler setup

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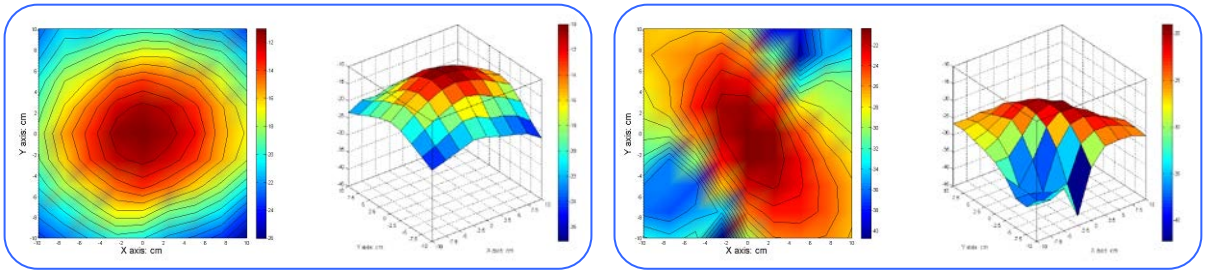
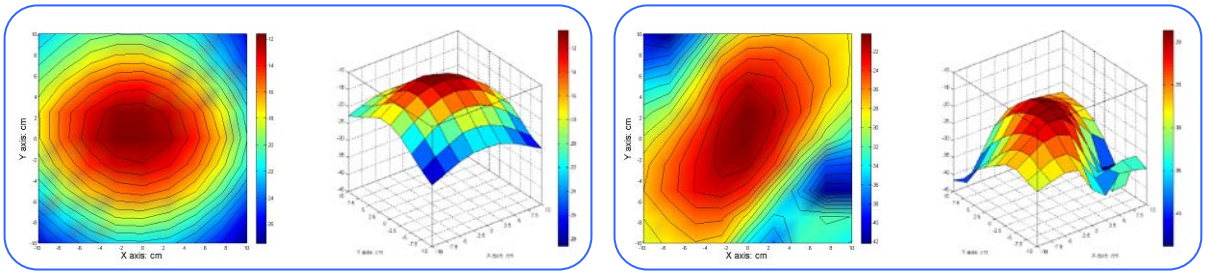
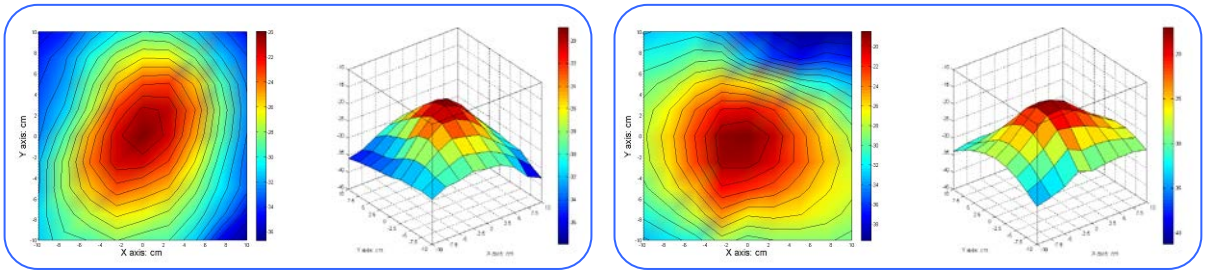


TC-93060A (Left: Dipole Antenna Horizontally: Dipole Antenna Vertically)

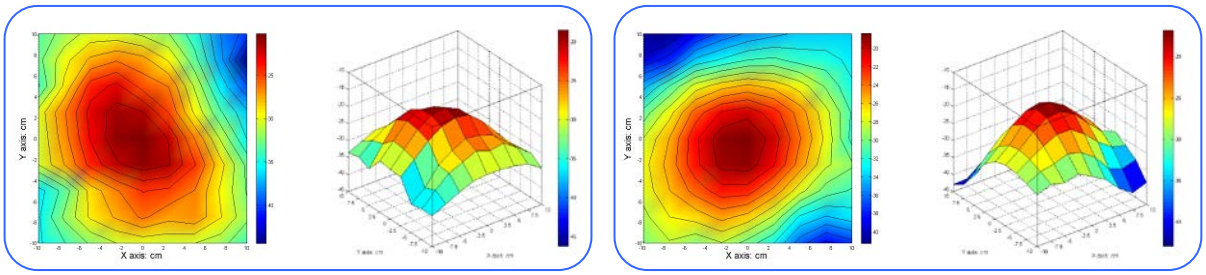


TC-93061A (Left: Dipole Antenna Horizontally: Dipole Antenna Vertically)

- **Path Loss Distribution at 1800 MHz**



TC-93060A (Left: Dipole Antenna Horizontally: Dipole Antenna Vertically)



TC-93061A (Left: Dipole Antenna Horizontally: Dipole Antenna Vertically)

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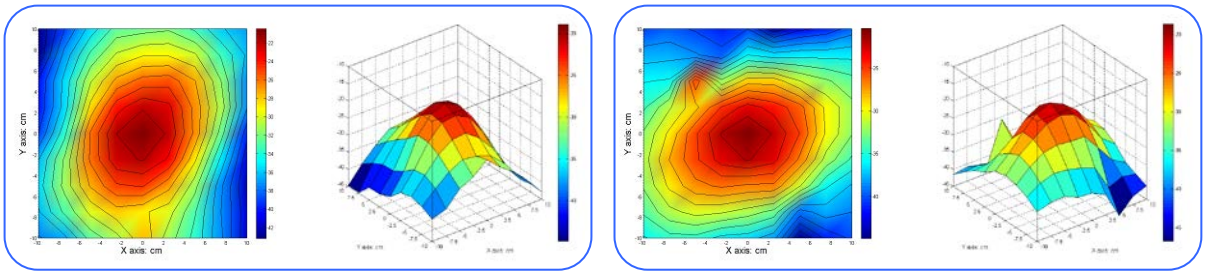
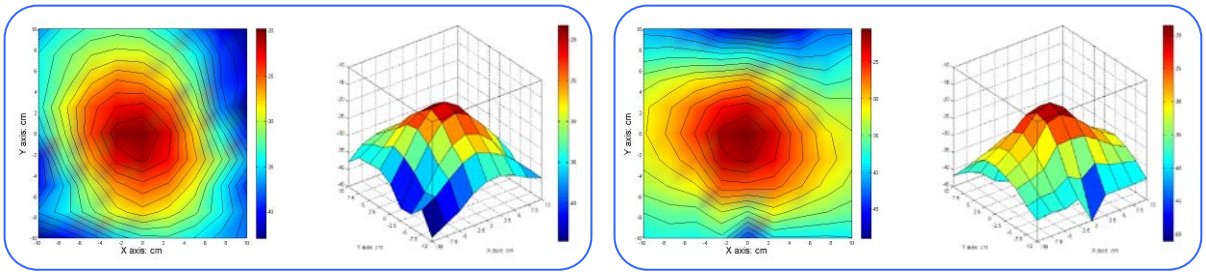
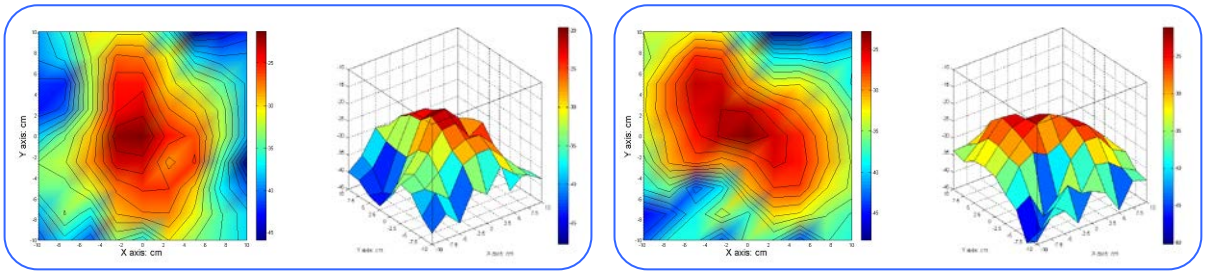


TC-93060A (Left: Dipole Antenna Horizontally: Dipole Antenna Vertically)

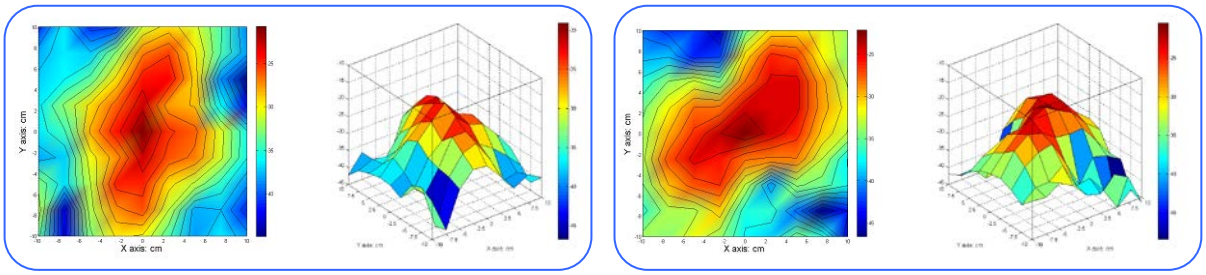


TC-93061A (Left: Dipole Antenna Horizontally: Dipole Antenna Vertically)

- **Path Loss Distribution at 5800 MHz**



TC-93060A (Left: Dipole Antenna Horizontally: Dipole Antenna Vertically)



TC-93061A (Left: Dipole Antenna Horizontally: Dipole Antenna Vertically)

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