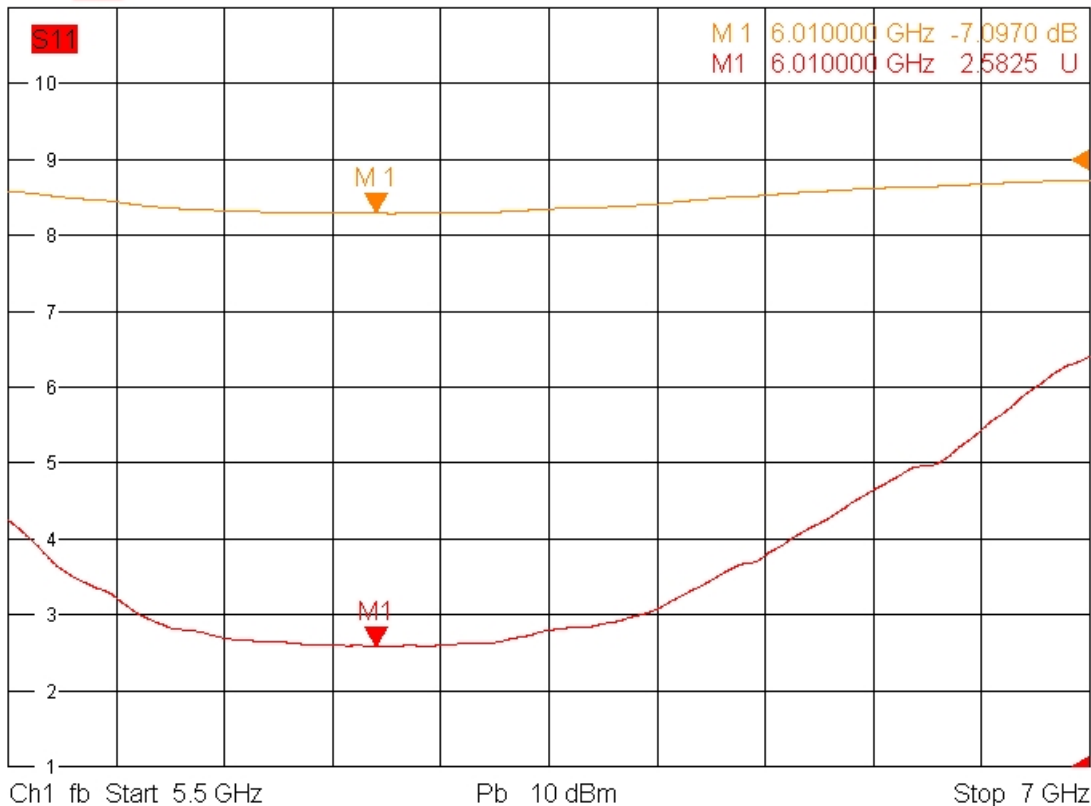




1

Trc3 **S11** dB Mag 10 dB / Ref 0 dB Cal
Trc4 **S11** SWR 1 U / Ref 1 U Cal



Pattern File.....2013-11-26-15-33- 5_AZIMUTH_CUT_001.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9- 6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

RF Detector....Vector Network Analyzer

RF Source.....Vector Network Analyzer

Mfr./Model....."ABG"

Mfr./Model.....Rohde & Schwarz ZVB-20

RF Level.....10.000000 dBm

ID Number....."SAMPLE A"

Resolution BW.. 2.000000 kHz

Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Antenna Type..."TOPHAT MONOPOLE"

Detector Function..."SPARAMS (V)"

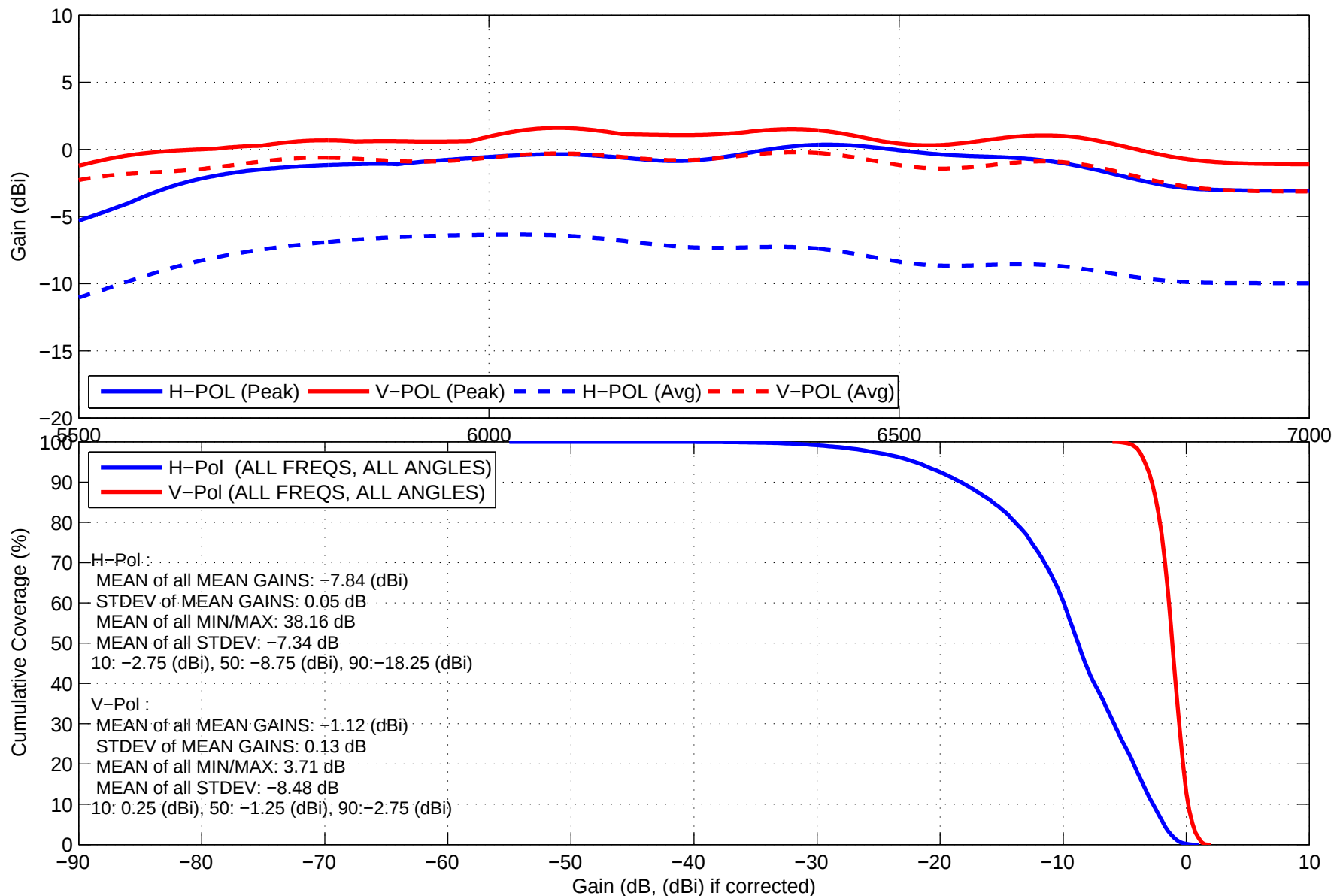
Height....."1.5 m"

Span...N/A

Range....."3 m"

Ant. Location..."CENTER OF AZIMUTH TURNTABLE, ANT VERTICAL"

Comments....."AZIMUTH CUT THROUGH PLANE OF PCB, THETA = 90, PHI = -179 TO 180 DEG. PHI = 0 DEG AT FEED LOCATION."



Pattern File.....2013-11-26-15-33- 5_AZIMUTH_CUT_001.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9- 6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

RF Detector....Vector Network Analyzer

RF Source.....Vector Network Analyzer

Mfr./Model....."ABG"

Mfr./Model.....Rohde & Schwarz ZVB-20

RF Level.....10.000000 dBm

ID Number....."SAMPLE A"

Resolution BW.. 2.000000 kHz

Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Antenna Type..."TOPHAT MONOPOLE"

Detector Function..."SPARAMS (V)"

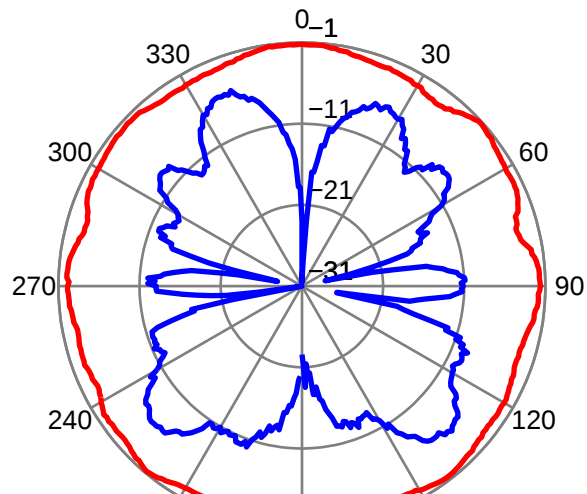
Height....."1.5 m"

Span...N/A

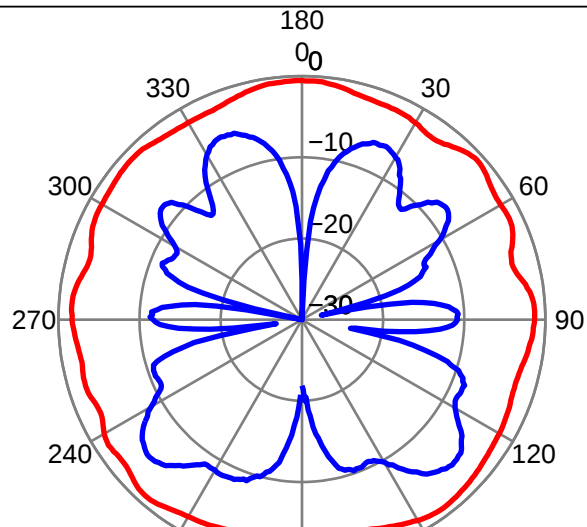
Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT VERTICAL"

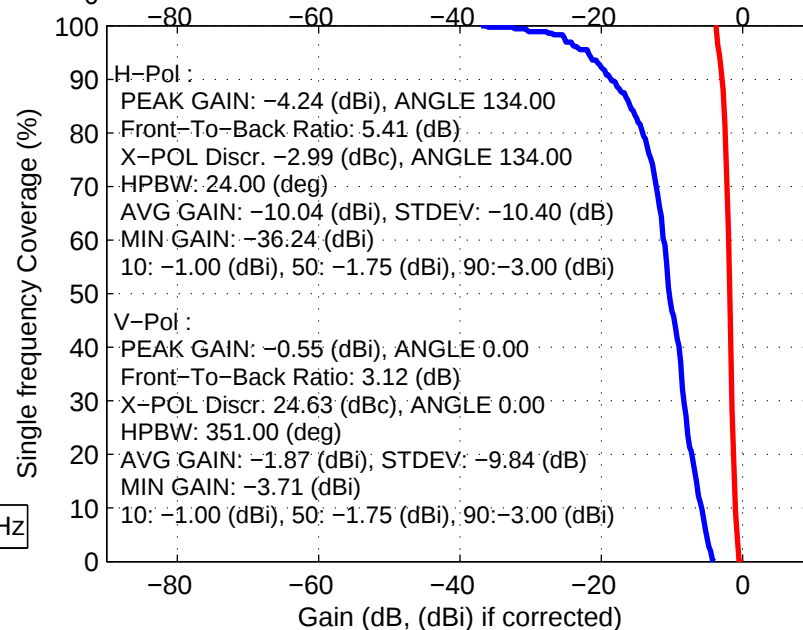
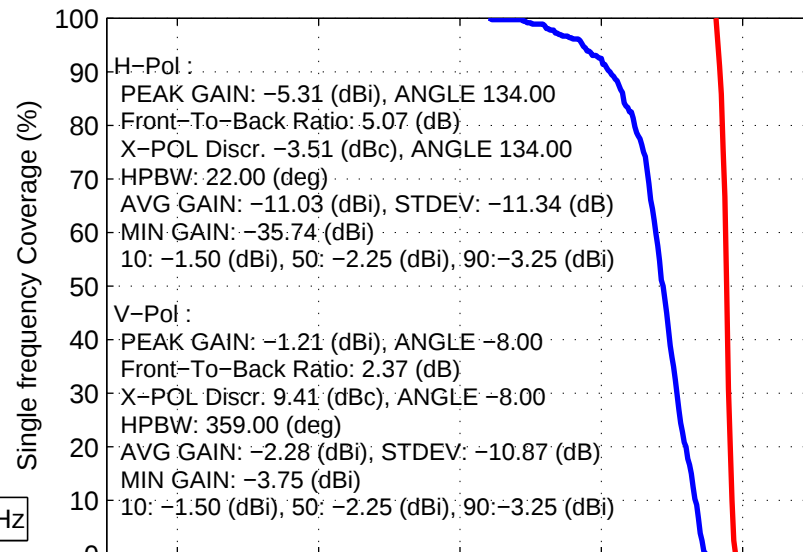
Comments....."AZIMUTH CUT THROUGH PLANE OF PCB, THETA = 90, PHI = -179 TO 180 DEG. PHI = 0 DEG AT FEED LOCATION."



— H-Pol Frequency: 5500.000 MHz — V-Pol Frequency: 5500.000 MHz



— H-Pol Frequency: 5550.000 MHz — V-Pol Frequency: 5550.000 MHz



Pattern File.....2013-11-26-15-33- 5_AZIMUTH_CUT_001.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9- 6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

RF Detector....Vector Network Analyzer

RF Source.....Vector Network Analyzer

Mfr./Model....."ABG"

Mfr./Model.....Rohde & Schwarz ZVB-20

RF Level.....10.000000 dBm

ID Number....."SAMPLE A"

Resolution BW.. 2.000000 kHz

Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Antenna Type..."TOPHAT MONOPOLE"

Detector Function..."SPARAMS (V)"

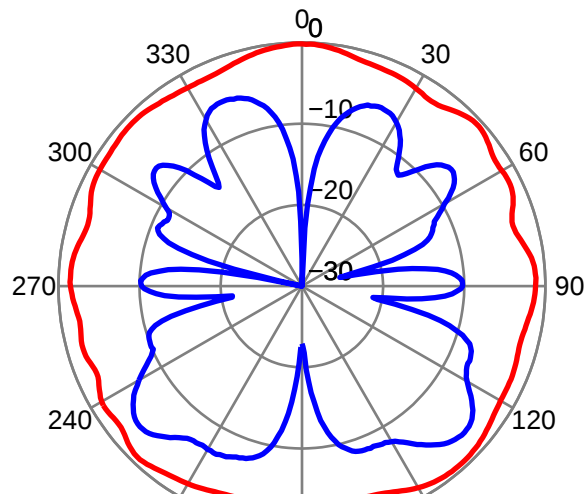
Height....."1.5 m"

Span...N/A

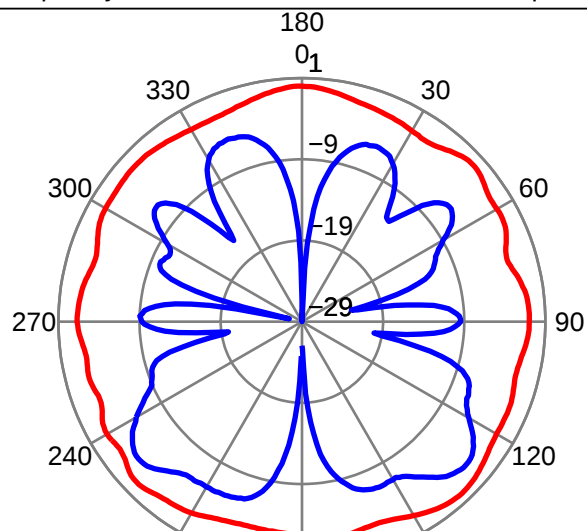
Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT VERTICAL"

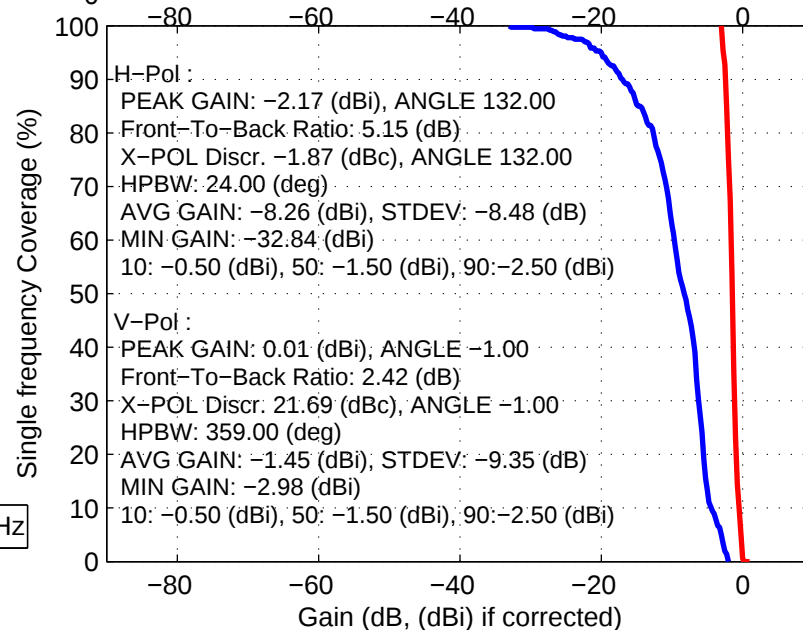
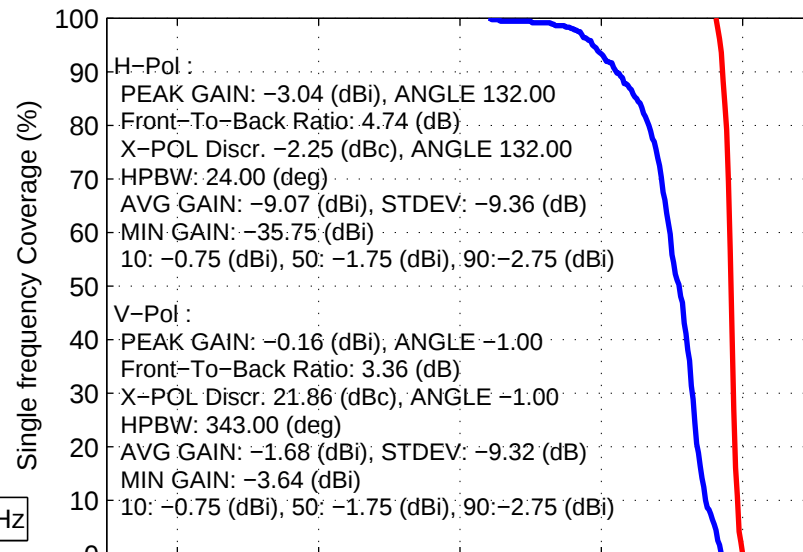
Comments....."AZIMUTH CUT THROUGH PLANE OF PCB, THETA = 90, PHI = -179 TO 180 DEG. PHI = 0 DEG AT FEED LOCATION."



— H-Pol Frequency: 5600.000 MHz — V-Pol Frequency: 5600.000 MHz



— H-Pol Frequency: 5650.000 MHz — V-Pol Frequency: 5650.000 MHz



Pattern File.....2013-11-26-15-33- 5_AZIMUTH_CUT_001.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9- 6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

RF Detector....Vector Network Analyzer

RF Source.....Vector Network Analyzer

Mfr./Model....."ABG"

Mfr./Model.....Rohde & Schwarz ZVB-20

RF Level.....10.000000 dBm

ID Number....."SAMPLE A"

Resolution BW.. 2.000000 kHz

Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Antenna Type..."TOPHAT MONOPOLE"

Detector Function..."SPARAMS (V)"

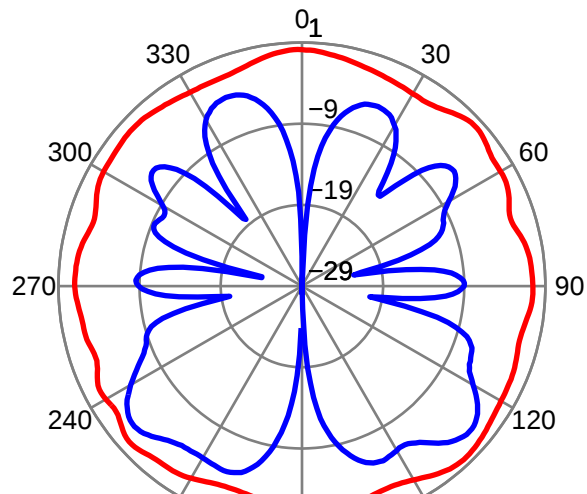
Height....."1.5 m"

Span...N/A

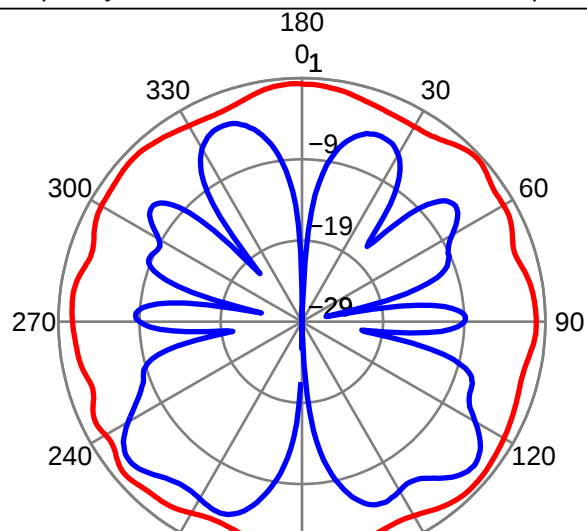
Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT VERTICAL"

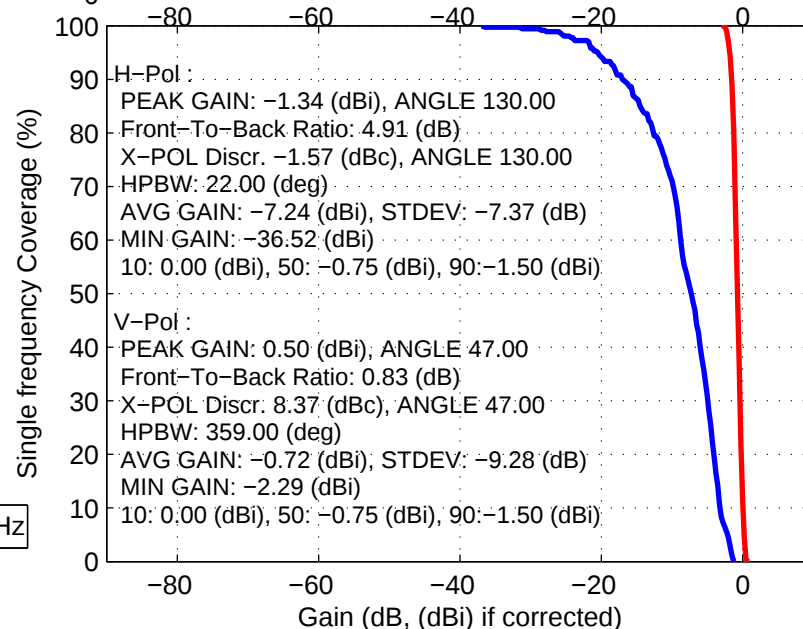
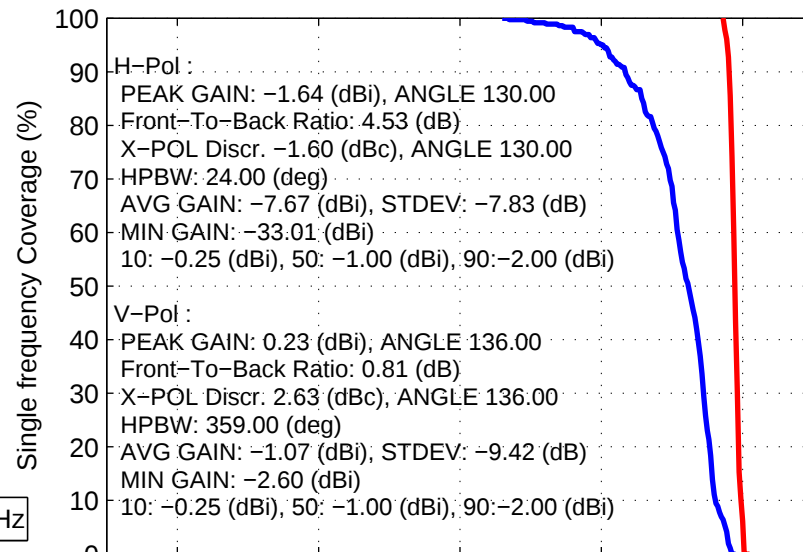
Comments....."AZIMUTH CUT THROUGH PLANE OF PCB, THETA = 90, PHI = -179 TO 180 DEG. PHI = 0 DEG AT FEED LOCATION."



— H-Pol Frequency: 5700.000 MHz — V-Pol Frequency: 5700.000 MHz



— H-Pol Frequency: 5750.000 MHz — V-Pol Frequency: 5750.000 MHz



Pattern File.....2013-11-26-15-33- 5_AZIMUTH_CUT_001.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9- 6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

Mfr./Model....."ABG"

ID Number....."SAMPLE A"

Antenna Type..."TOPHAT MONOPOLE"

RF Detector....Vector Network Analyzer

Mfr./Model.....Rohde & Schwarz ZVB-20

Resolution BW.. 2.000000 kHz

Detector Function..."SPARAMS (V)"

Span...N/A

RF Source.....Vector Network Analyzer

RF Level.....10.000000 dBm

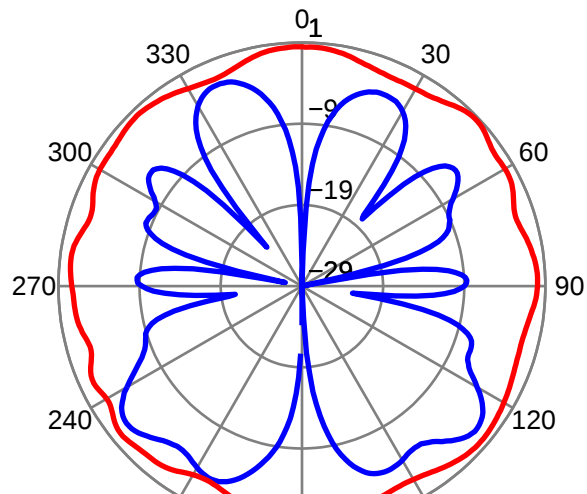
Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Height....."1.5 m"

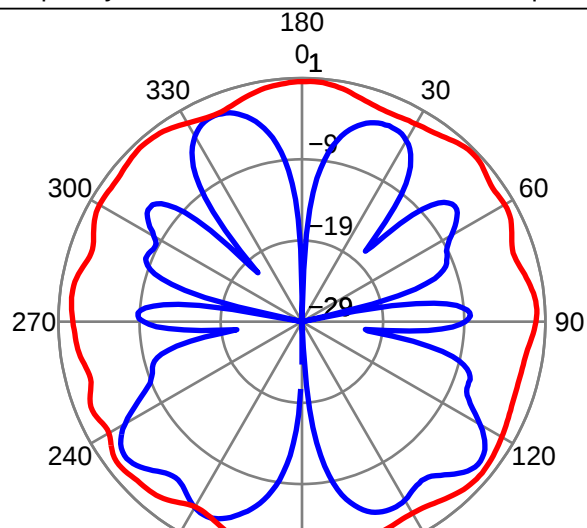
Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT VERTICAL"

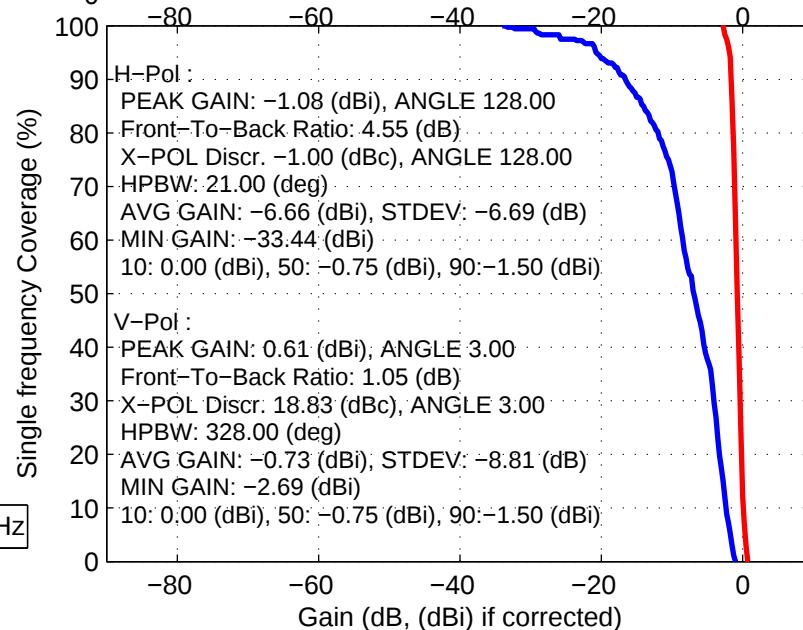
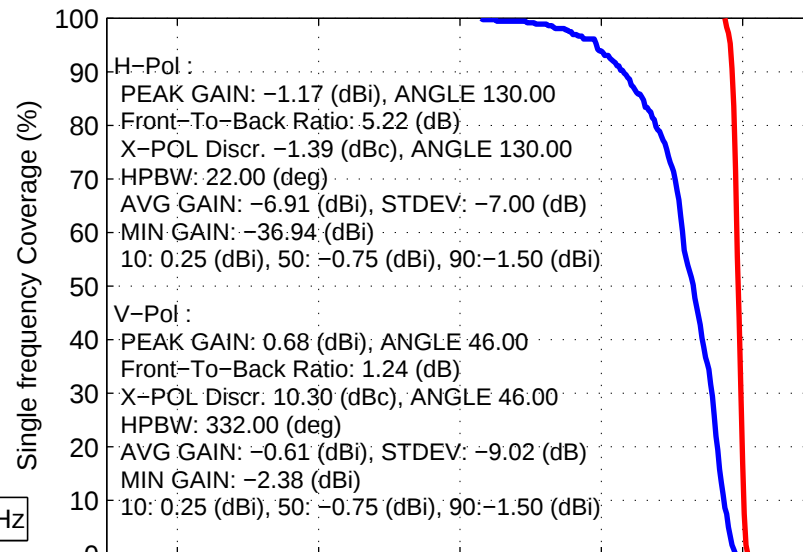
Comments....."AZIMUTH CUT THROUGH PLANE OF PCB, THETA = 90, PHI = -179 TO 180 DEG. PHI = 0 DEG AT FEED LOCATION."



— H-Pol Frequency: 5800.000 MHz — V-Pol Frequency: 5800.000 MHz



— H-Pol Frequency: 5850.000 MHz — V-Pol Frequency: 5850.000 MHz



Pattern File.....2013-11-26-15-33- 5_AZIMUTH_CUT_001.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9- 6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

Mfr./Model....."ABG"

ID Number....."SAMPLE A"

Antenna Type..."TOPHAT MONOPOLE"

RF Detector....Vector Network Analyzer

Mfr./Model.....Rohde & Schwarz ZVB-20

Resolution BW.. 2.000000 kHz

Detector Function..."SPARAMS (V)"

Span...N/A

RF Source.....Vector Network Analyzer

RF Level.....10.000000 dBm

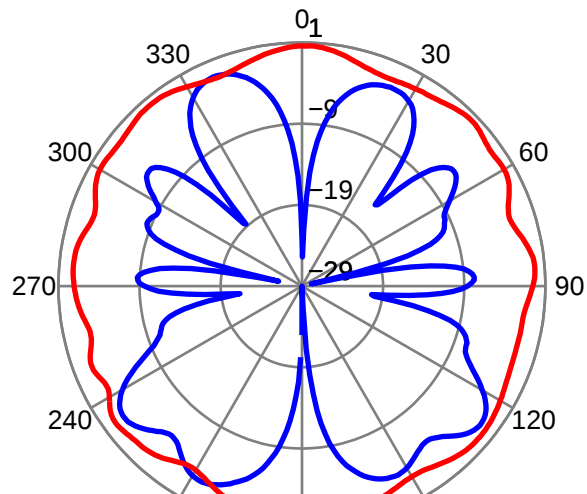
Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Height....."1.5 m"

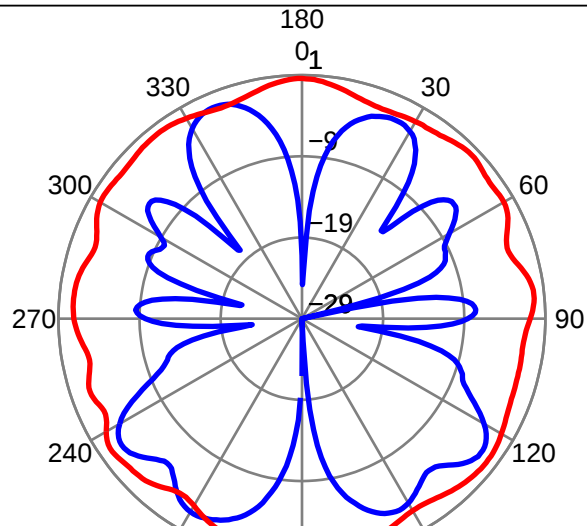
Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT VERTICAL"

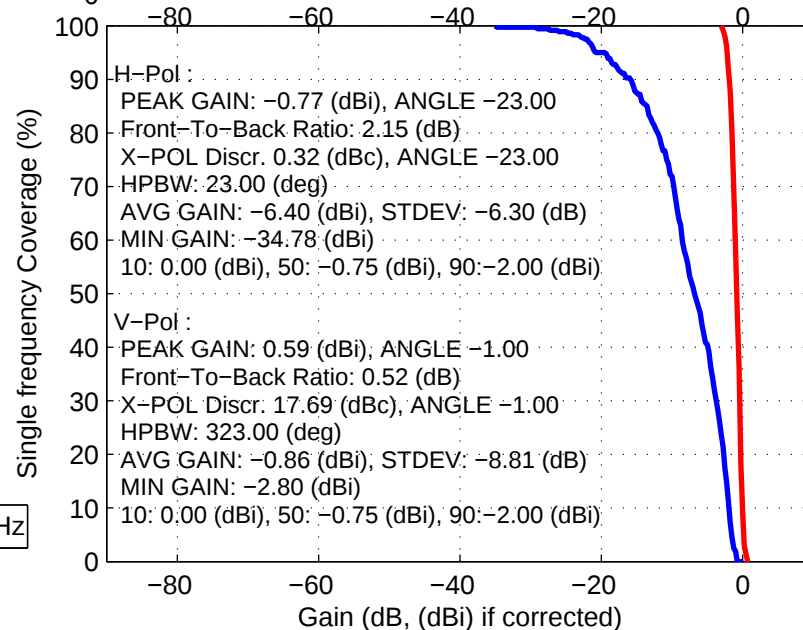
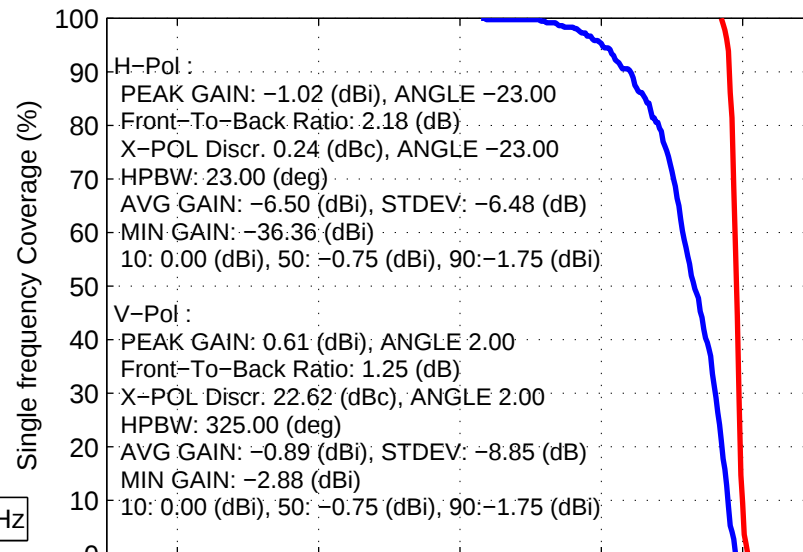
Comments....."AZIMUTH CUT THROUGH PLANE OF PCB, THETA = 90, PHI = -179 TO 180 DEG. PHI = 0 DEG AT FEED LOCATION."



— H-Pol Frequency: 5900.000 MHz — V-Pol Frequency: 5900.000 MHz



— H-Pol Frequency: 5950.000 MHz — V-Pol Frequency: 5950.000 MHz



Pattern File.....2013-11-26-15-33- 5_AZIMUTH_CUT_001.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9- 6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

Mfr./Model....."ABG"

ID Number....."SAMPLE A"

Antenna Type..."TOPHAT MONOPOLE"

RF Detector....Vector Network Analyzer

Mfr./Model.....Rohde & Schwarz ZVB-20

Resolution BW.. 2.000000 kHz

Detector Function..."SPARAMS (V)"

Span...N/A

RF Source.....Vector Network Analyzer

RF Level.....10.000000 dBm

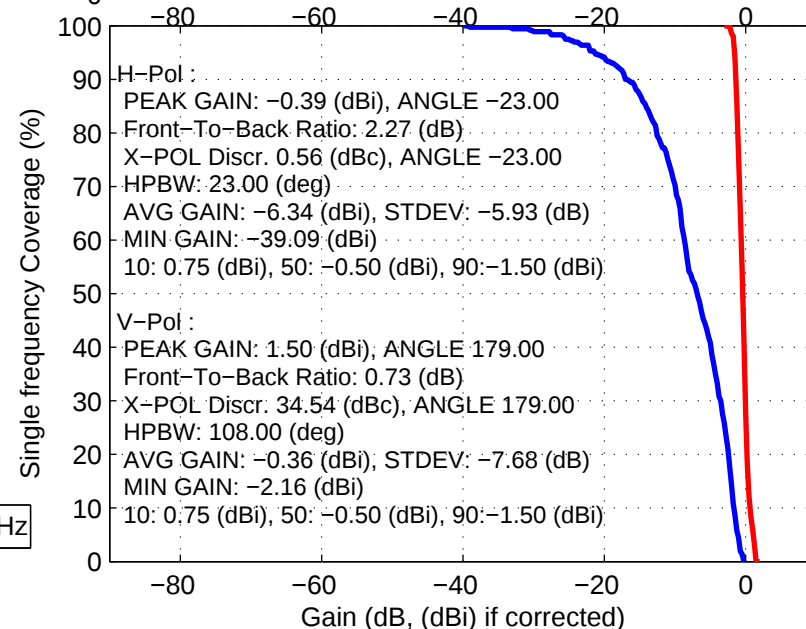
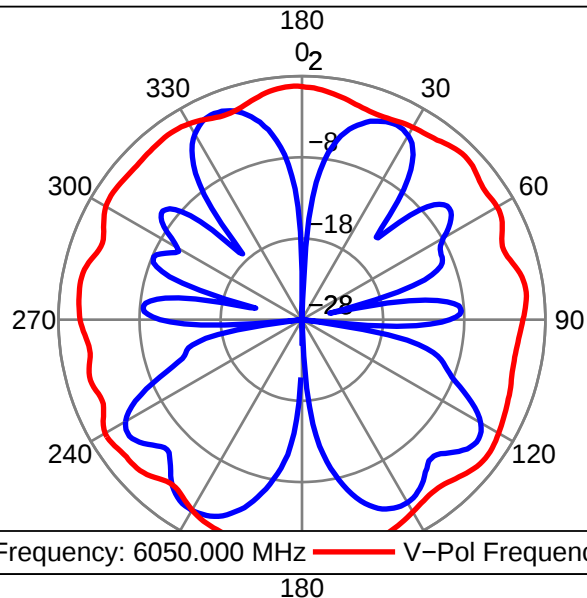
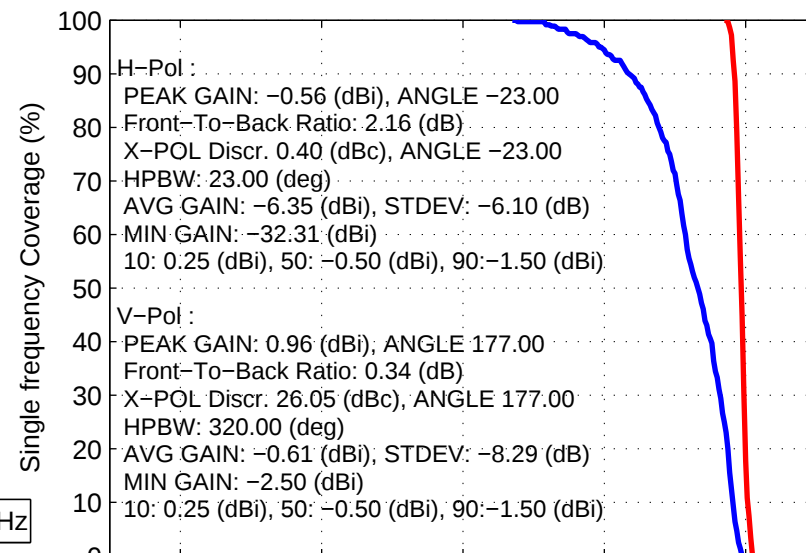
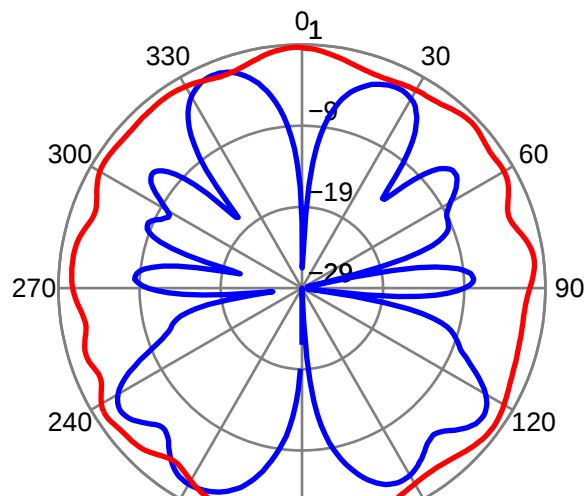
Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Height....."1.5 m"

Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT VERTICAL"

Comments....."AZIMUTH CUT THROUGH PLANE OF PCB, THETA = 90, PHI = -179 TO 180 DEG. PHI = 0 DEG AT FEED LOCATION."



Pattern File.....2013-11-26-15-33- 5_AZIMUTH_CUT_001.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9- 6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

Mfr./Model....."ABG"

ID Number....."SAMPLE A"

Antenna Type..."TOPHAT MONOPOLE"

RF Detector....Vector Network Analyzer

Mfr./Model.....Rohde & Schwarz ZVB-20

Resolution BW.. 2.000000 kHz

Detector Function..."SPARAMS (V)"

Span...N/A

RF Source.....Vector Network Analyzer

RF Level.....10.000000 dBm

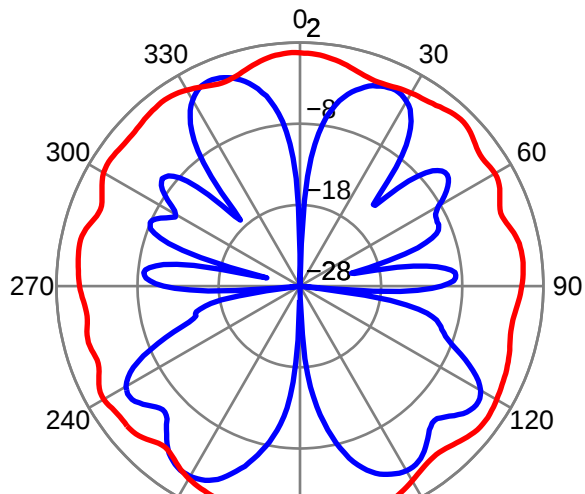
Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Height....."1.5 m"

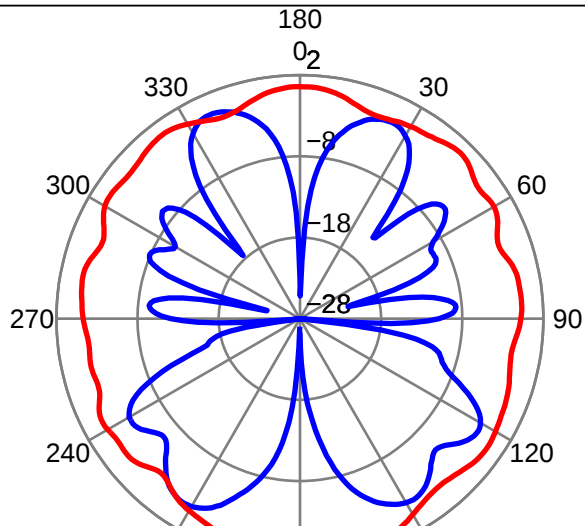
Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT VERTICAL"

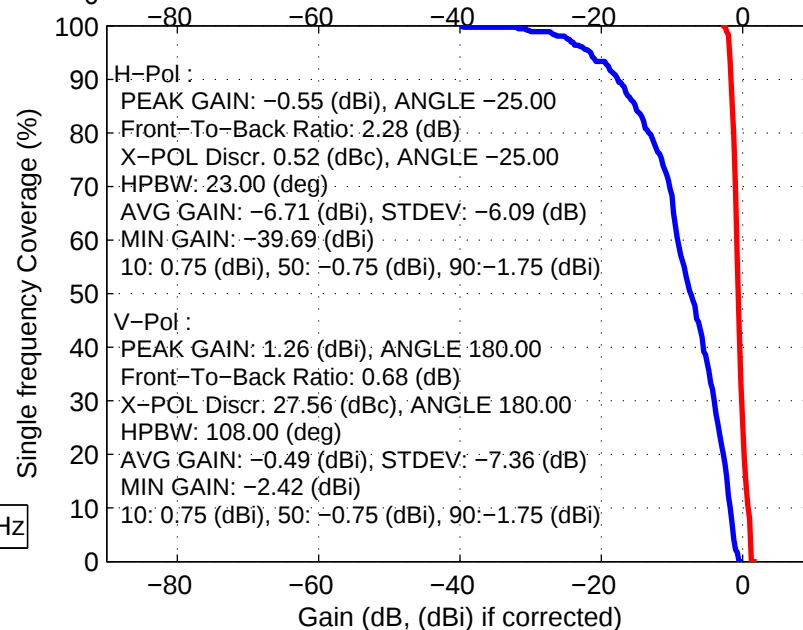
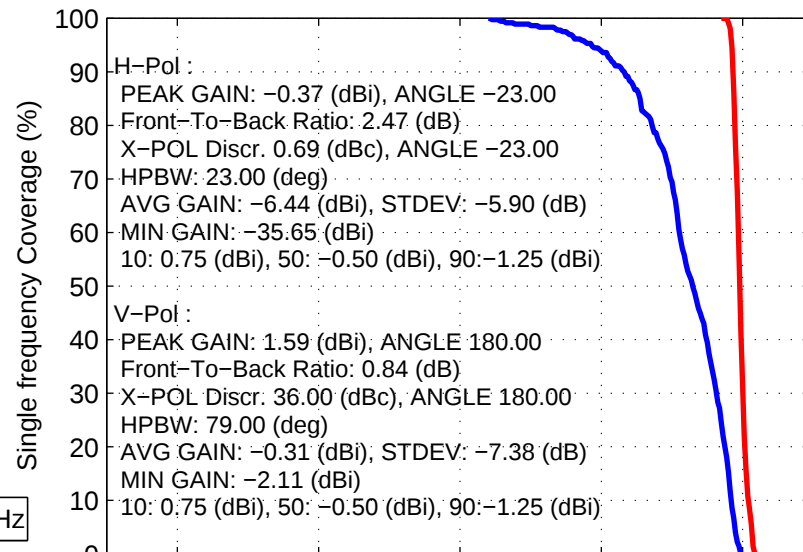
Comments....."AZIMUTH CUT THROUGH PLANE OF PCB, THETA = 90, PHI = -179 TO 180 DEG. PHI = 0 DEG AT FEED LOCATION."



— H-Pol Frequency: 6100.000 MHz — V-Pol Frequency: 6100.000 MHz



— H-Pol Frequency: 6150.000 MHz — V-Pol Frequency: 6150.000 MHz



Pattern File.....2013-11-26-15-33- 5_AZIMUTH_CUT_001.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9- 6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

RF Detector....Vector Network Analyzer

RF Source.....Vector Network Analyzer

Mfr./Model....."ABG"

Mfr./Model.....Rohde & Schwarz ZVB-20

RF Level.....10.000000 dBm

ID Number....."SAMPLE A"

Resolution BW.. 2.000000 kHz

Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Antenna Type..."TOPHAT MONOPOLE"

Detector Function..."SPARAMS (V)"

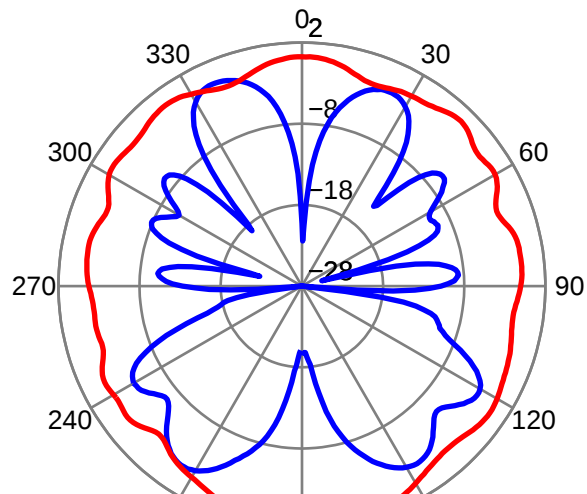
Height....."1.5 m"

Span...N/A

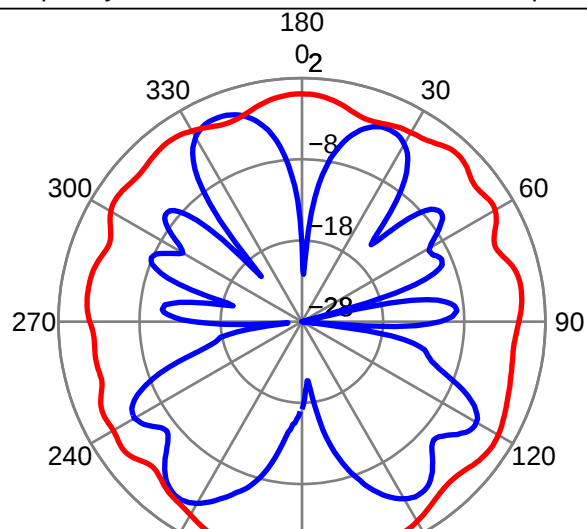
Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT VERTICAL"

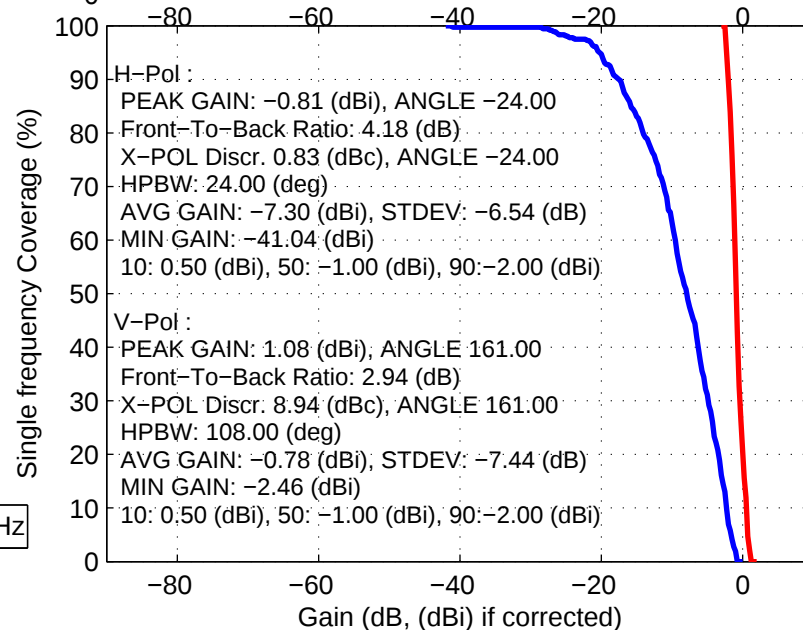
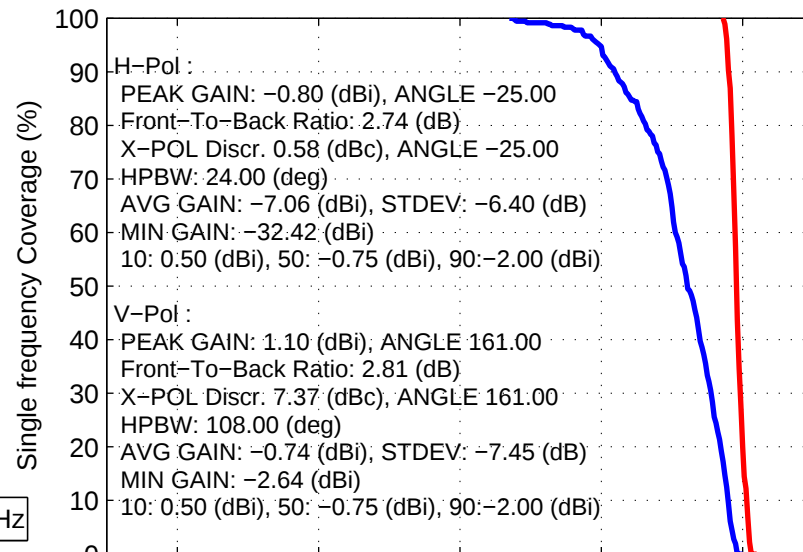
Comments....."AZIMUTH CUT THROUGH PLANE OF PCB, THETA = 90, PHI = -179 TO 180 DEG. PHI = 0 DEG AT FEED LOCATION."



— H-Pol Frequency: 6200.000 MHz — V-Pol Frequency: 6200.000 MHz



— H-Pol Frequency: 6250.000 MHz — V-Pol Frequency: 6250.000 MHz



Pattern File.....2013-11-26-15-33- 5_AZIMUTH_CUT_001.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9- 6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

RF Detector....Vector Network Analyzer

RF Source.....Vector Network Analyzer

Mfr./Model....."ABG"

Mfr./Model.....Rohde & Schwarz ZVB-20

RF Level.....10.000000 dBm

ID Number....."SAMPLE A"

Resolution BW.. 2.000000 kHz

Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Antenna Type..."TOPHAT MONOPOLE"

Detector Function..."SPARAMS (V)"

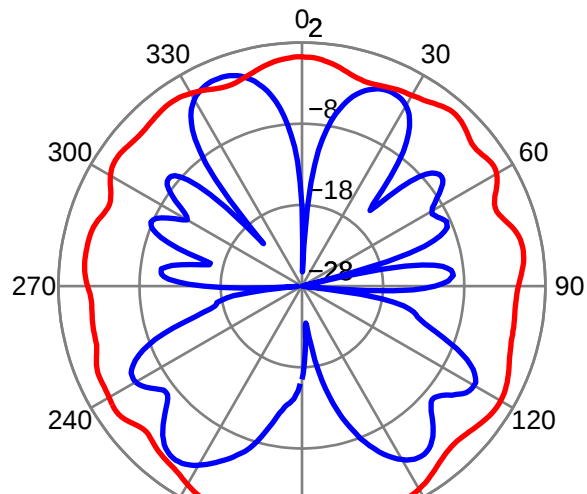
Height....."1.5 m"

Span...N/A

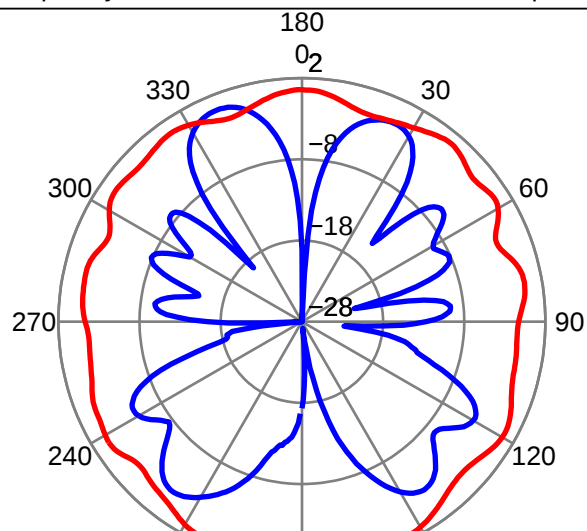
Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT VERTICAL"

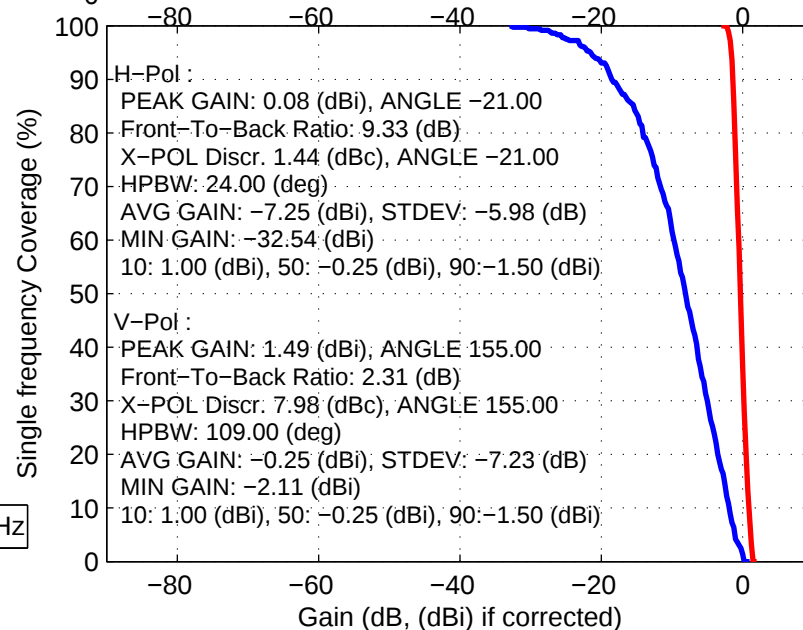
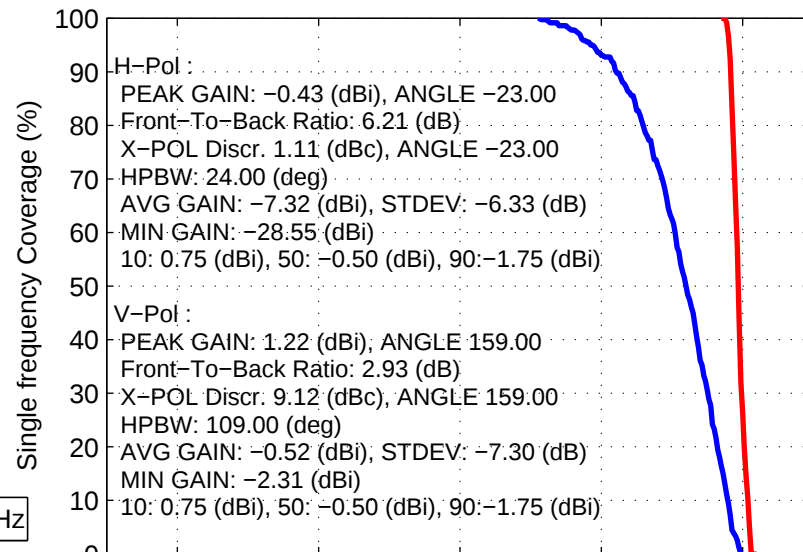
Comments....."AZIMUTH CUT THROUGH PLANE OF PCB, THETA = 90, PHI = -179 TO 180 DEG. PHI = 0 DEG AT FEED LOCATION."



— H-Pol Frequency: 6300.000 MHz — V-Pol Frequency: 6300.000 MHz



— H-Pol Frequency: 6350.000 MHz — V-Pol Frequency: 6350.000 MHz



Pattern File.....2013-11-26-15-33- 5_AZIMUTH_CUT_001.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9- 6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

Mfr./Model....."ABG"

ID Number....."SAMPLE A"

Antenna Type..."TOPHAT MONOPOLE"

RF Detector....Vector Network Analyzer

Mfr./Model.....Rohde & Schwarz ZVB-20

Resolution BW.. 2.000000 kHz

Detector Function..."SPARAMS (V)"

Span...N/A

RF Source.....Vector Network Analyzer

RF Level.....10.000000 dBm

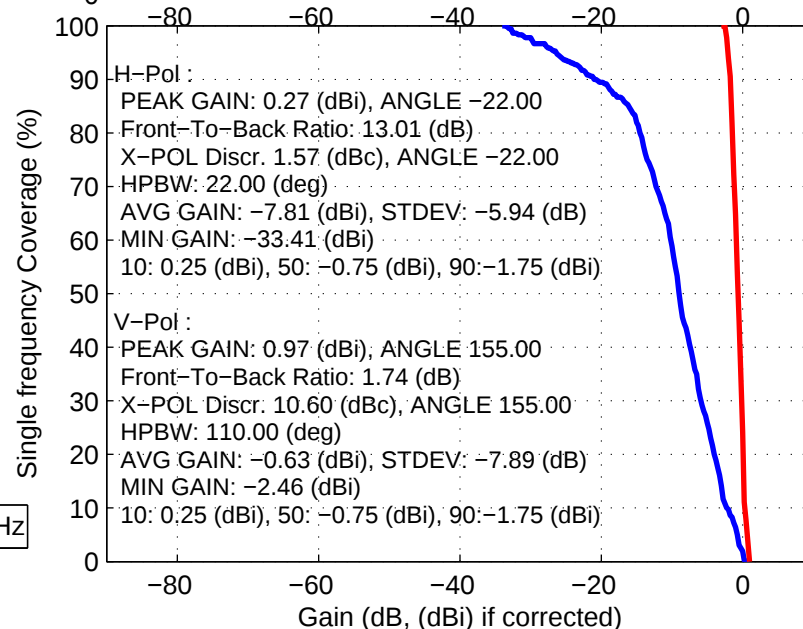
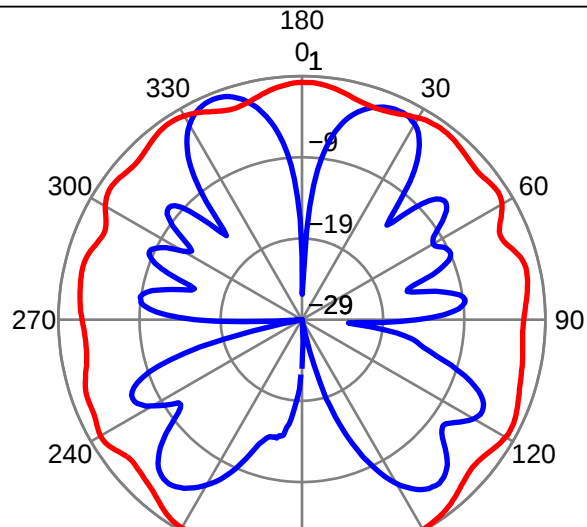
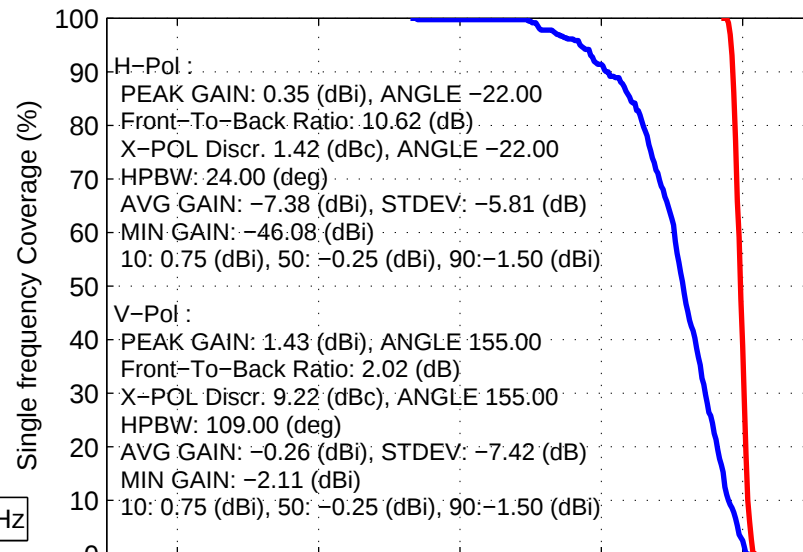
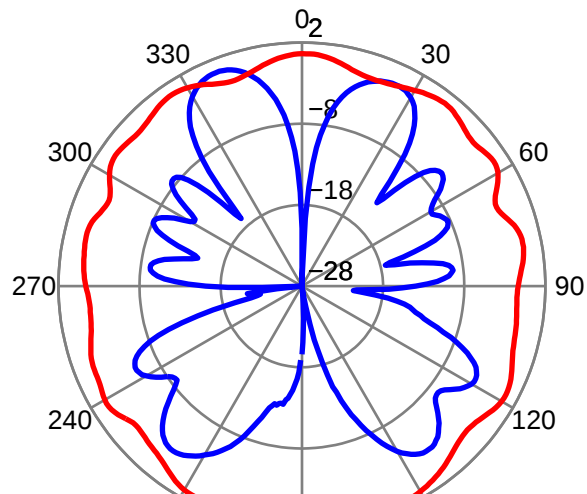
Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Height....."1.5 m"

Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT VERTICAL"

Comments....."AZIMUTH CUT THROUGH PLANE OF PCB, THETA = 90, PHI = -179 TO 180 DEG. PHI = 0 DEG AT FEED LOCATION."



Pattern File.....2013-11-26-15-33- 5_AZIMUTH_CUT_001.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9- 6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

RF Detector....Vector Network Analyzer

RF Source.....Vector Network Analyzer

Mfr./Model....."ABG"

Mfr./Model.....Rohde & Schwarz ZVB-20

RF Level.....10.000000 dBm

ID Number....."SAMPLE A"

Resolution BW.. 2.000000 kHz

Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Antenna Type..."TOPHAT MONOPOLE"

Detector Function..."SPARAMS (V)"

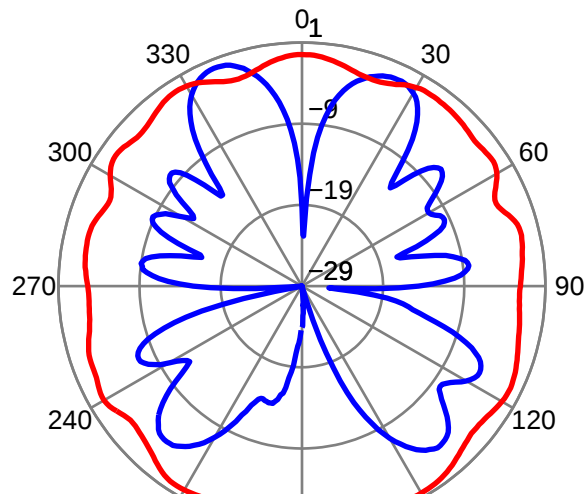
Height....."1.5 m"

Span...N/A

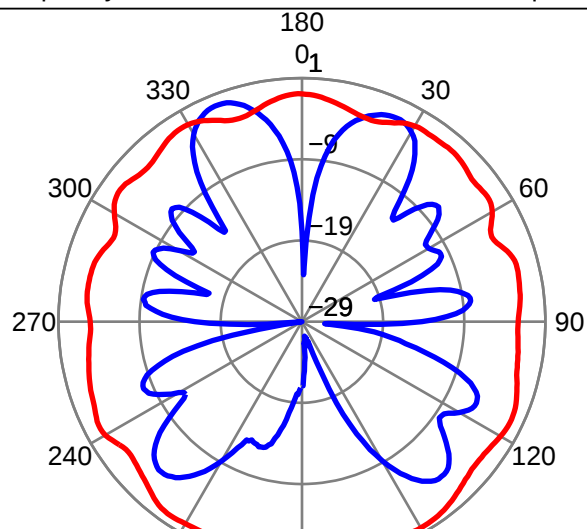
Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT VERTICAL"

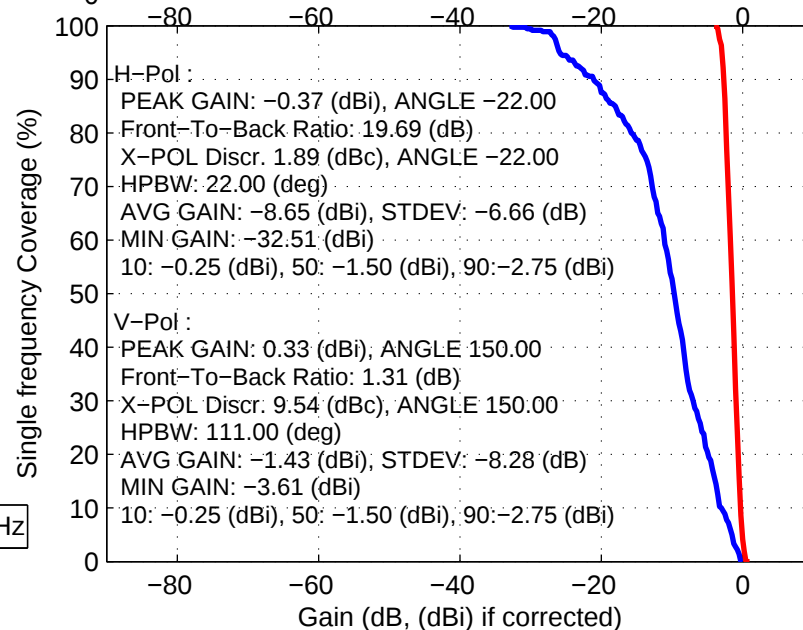
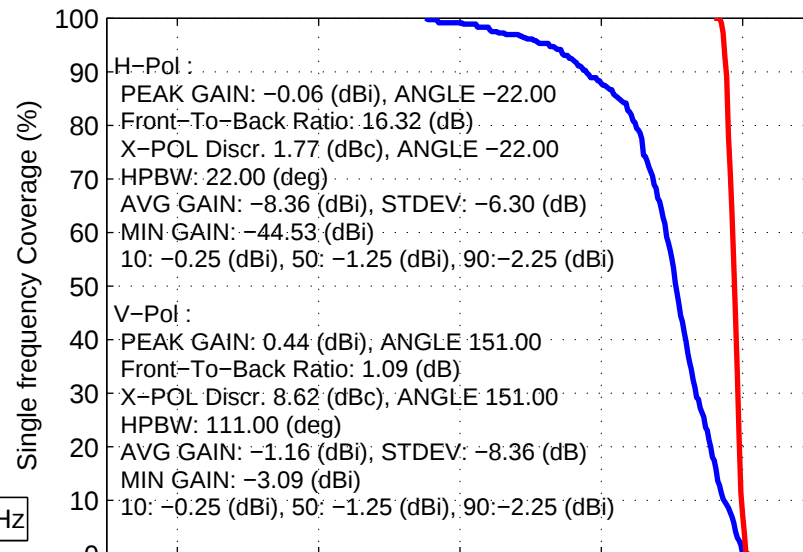
Comments....."AZIMUTH CUT THROUGH PLANE OF PCB, THETA = 90, PHI = -179 TO 180 DEG. PHI = 0 DEG AT FEED LOCATION."



— H-Pol Frequency: 6500.000 MHz — V-Pol Frequency: 6500.000 MHz



— H-Pol Frequency: 6550.000 MHz — V-Pol Frequency: 6550.000 MHz



Pattern File.....2013-11-26-15-33- 5_AZIMUTH_CUT_001.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9- 6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

RF Detector....Vector Network Analyzer

RF Source.....Vector Network Analyzer

Mfr./Model....."ABG"

Mfr./Model.....Rohde & Schwarz ZVB-20

RF Level.....10.000000 dBm

ID Number....."SAMPLE A"

Resolution BW.. 2.000000 kHz

Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Antenna Type..."TOPHAT MONOPOLE"

Detector Function..."SPARAMS (V)"

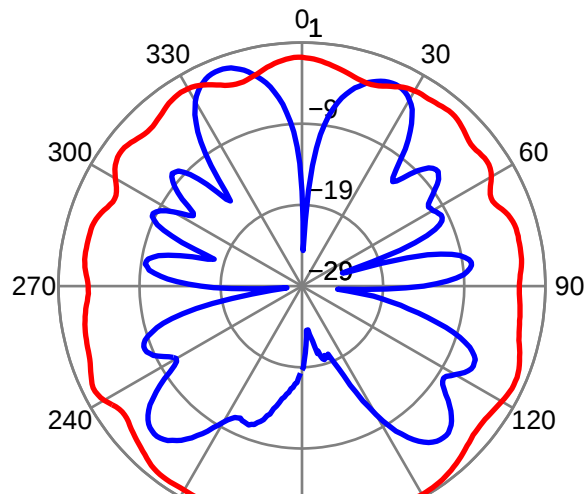
Height....."1.5 m"

Span...N/A

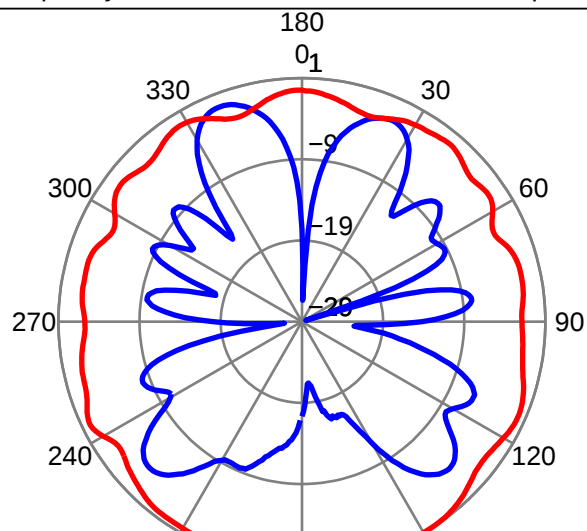
Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT VERTICAL"

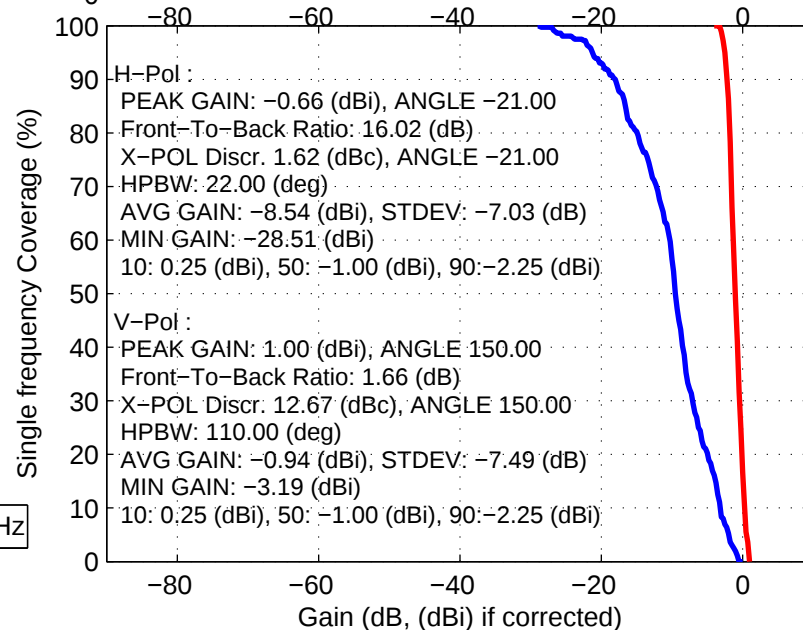
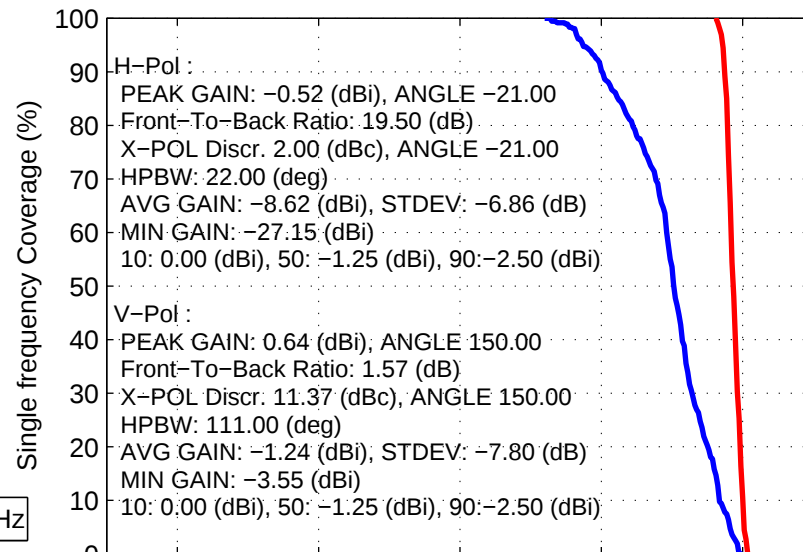
Comments....."AZIMUTH CUT THROUGH PLANE OF PCB, THETA = 90, PHI = -179 TO 180 DEG. PHI = 0 DEG AT FEED LOCATION."



— H-Pol Frequency: 6600.000 MHz — V-Pol Frequency: 6600.000 MHz



— H-Pol Frequency: 6650.000 MHz — V-Pol Frequency: 6650.000 MHz



Pattern File.....2013-11-26-15-33- 5_AZIMUTH_CUT_001.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9- 6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

RF Detector....Vector Network Analyzer

RF Source.....Vector Network Analyzer

Mfr./Model....."ABG"

Mfr./Model.....Rohde & Schwarz ZVB-20

RF Level.....10.000000 dBm

ID Number....."SAMPLE A"

Resolution BW.. 2.000000 kHz

Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Antenna Type..."TOPHAT MONOPOLE"

Detector Function..."SPARAMS (V)"

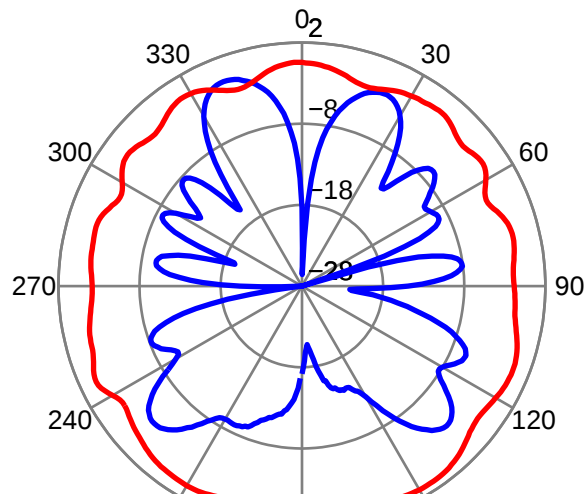
Height....."1.5 m"

Span...N/A

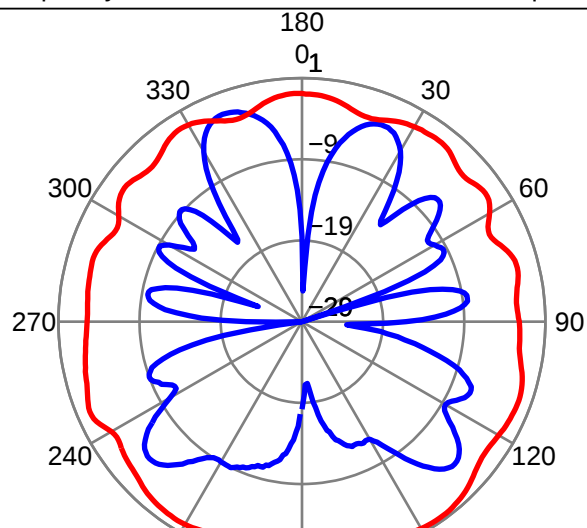
Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT VERTICAL"

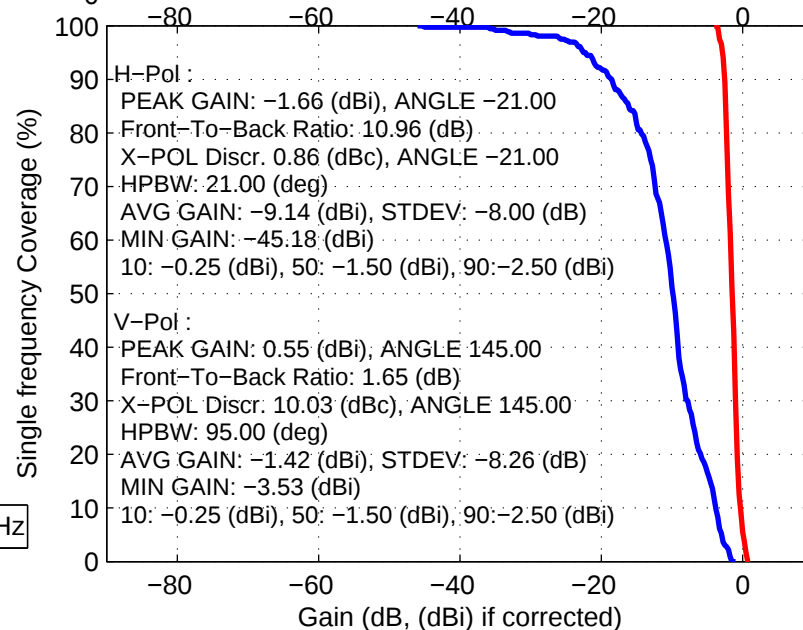
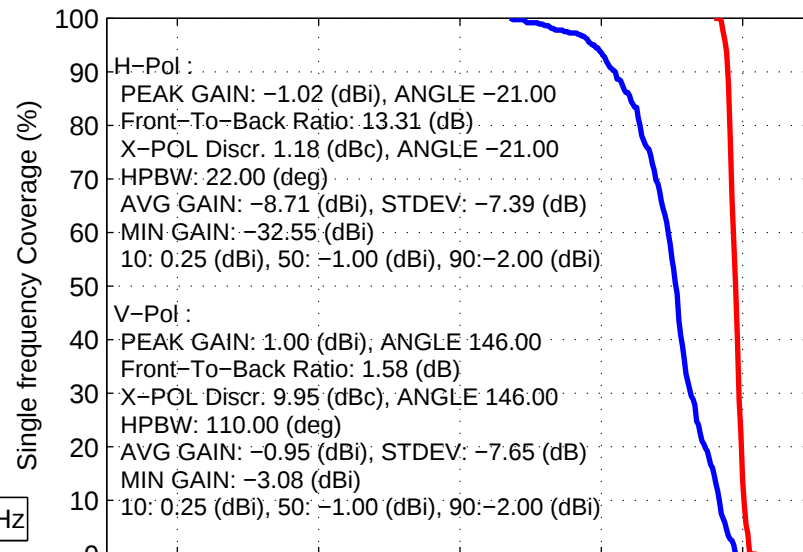
Comments....."AZIMUTH CUT THROUGH PLANE OF PCB, THETA = 90, PHI = -179 TO 180 DEG. PHI = 0 DEG AT FEED LOCATION."



— H-Pol Frequency: 6700.000 MHz — V-Pol Frequency: 6700.000 MHz



— H-Pol Frequency: 6750.000 MHz — V-Pol Frequency: 6750.000 MHz



Pattern File.....2013-11-26-15-33- 5_AZIMUTH_CUT_001.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9- 6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

RF Detector....Vector Network Analyzer

RF Source.....Vector Network Analyzer

Mfr./Model....."ABG"

Mfr./Model.....Rohde & Schwarz ZVB-20

RF Level.....10.000000 dBm

ID Number....."SAMPLE A"

Resolution BW.. 2.000000 kHz

Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Antenna Type..."TOPHAT MONOPOLE"

Detector Function..."SPARAMS (V)"

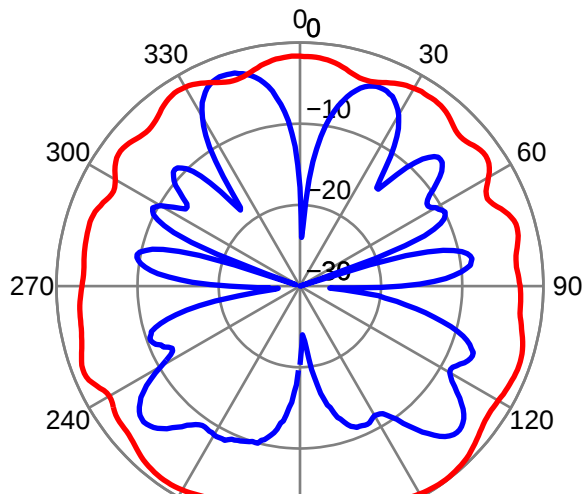
Height....."1.5 m"

Span...N/A

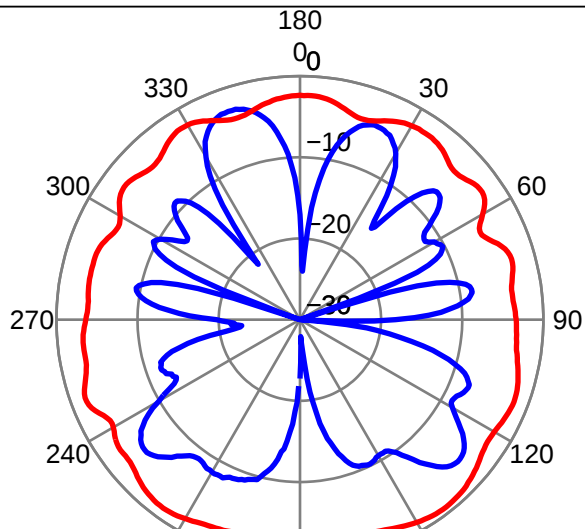
Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT VERTICAL"

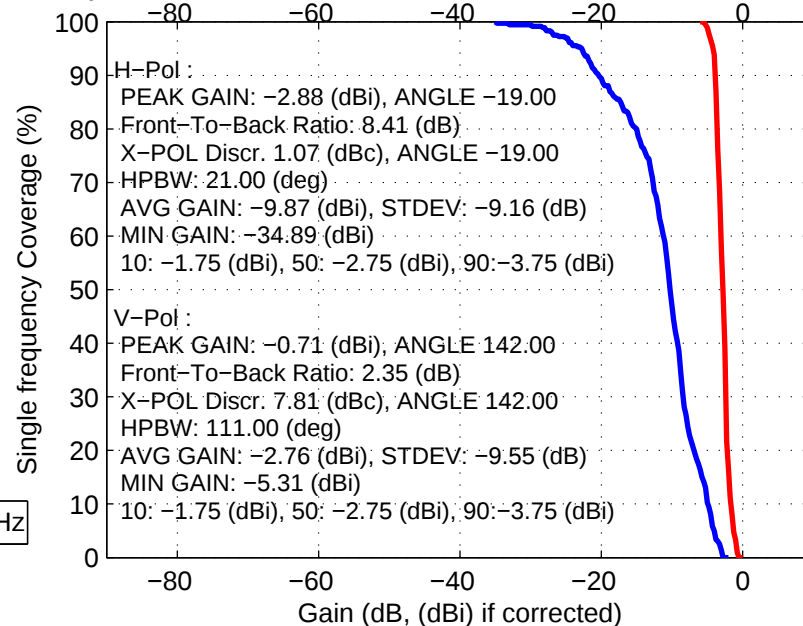
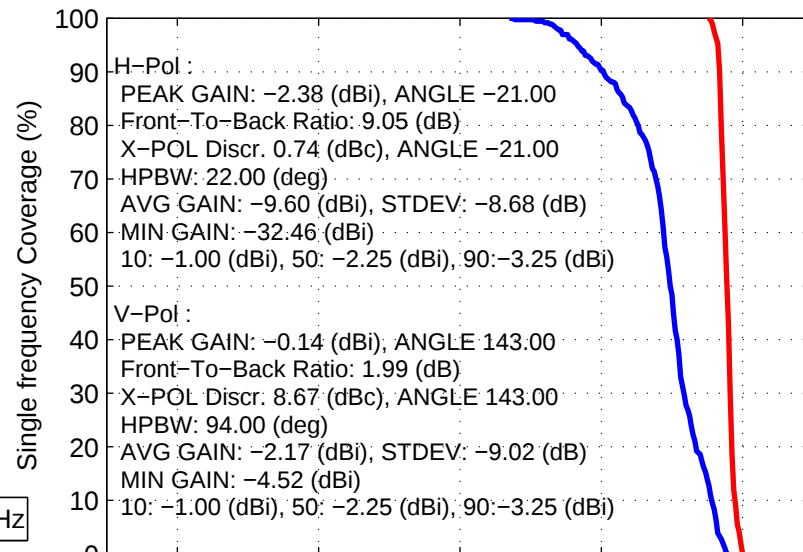
Comments....."AZIMUTH CUT THROUGH PLANE OF PCB, THETA = 90, PHI = -179 TO 180 DEG. PHI = 0 DEG AT FEED LOCATION."



— H-Pol Frequency: 6800.000 MHz — V-Pol Frequency: 6800.000 MHz



— H-Pol Frequency: 6850.000 MHz — V-Pol Frequency: 6850.000 MHz



Pattern File.....2013-11-26-15-33- 5_AZIMUTH_CUT_001.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9- 6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

RF Detector....Vector Network Analyzer

RF Source.....Vector Network Analyzer

Mfr./Model....."ABG"

Mfr./Model.....Rohde & Schwarz ZVB-20

RF Level.....10.000000 dBm

ID Number....."SAMPLE A"

Resolution BW.. 2.000000 kHz

Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Antenna Type..."TOPHAT MONOPOLE"

Detector Function..."SPARAMS (V)"

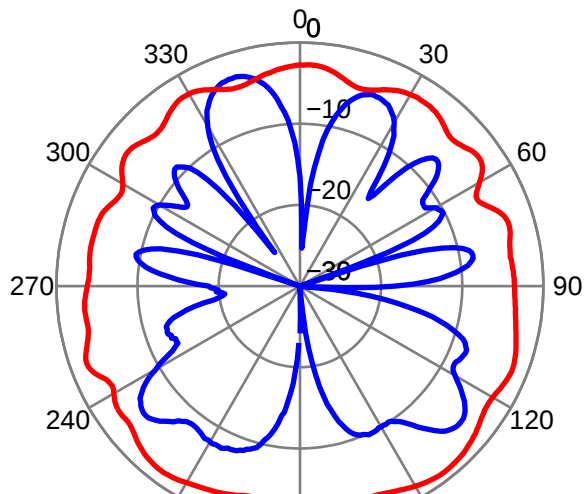
Height....."1.5 m"

Span...N/A

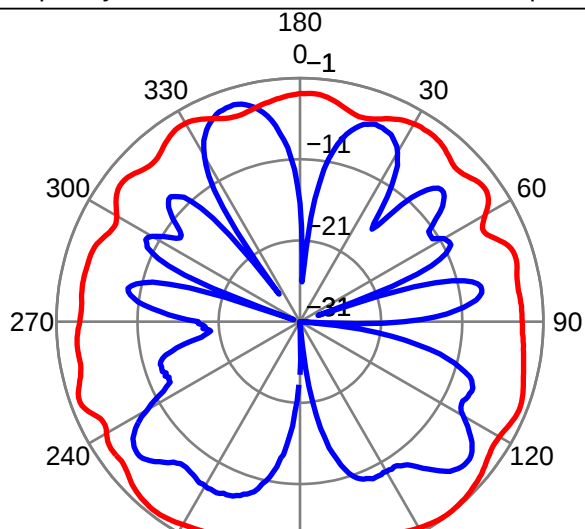
Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT VERTICAL"

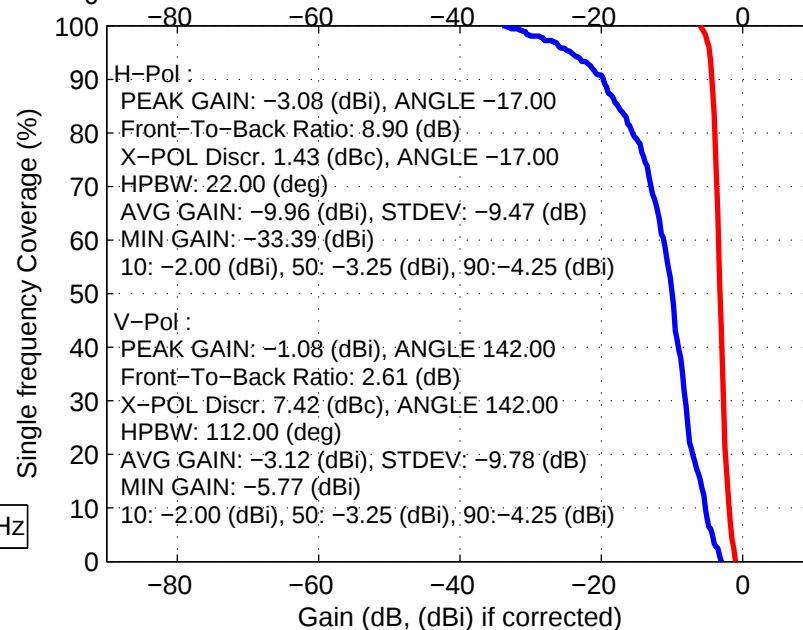
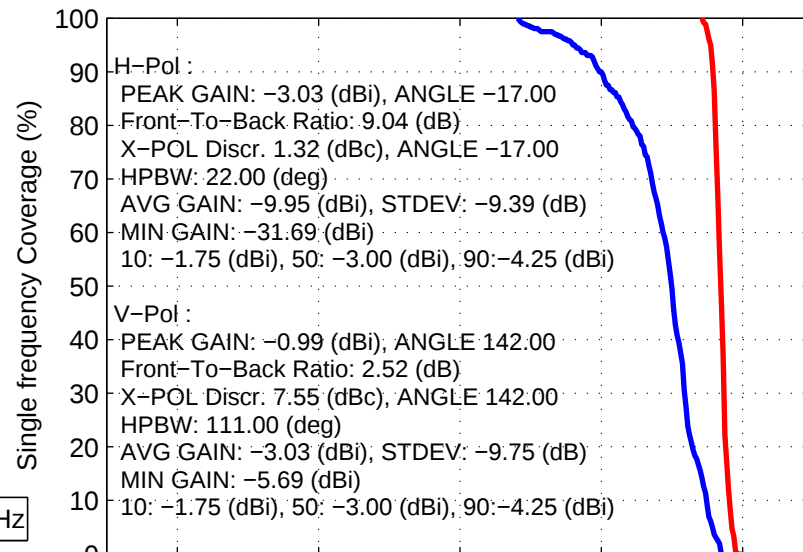
Comments....."AZIMUTH CUT THROUGH PLANE OF PCB, THETA = 90, PHI = -179 TO 180 DEG. PHI = 0 DEG AT FEED LOCATION."



— H-Pol Frequency: 6900.000 MHz — V-Pol Frequency: 6900.000 MHz



— H-Pol Frequency: 6950.000 MHz — V-Pol Frequency: 6950.000 MHz



Pattern File.....2013-11-26-15-33- 5_AZIMUTH_CUT_001.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9- 6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

RF Detector....Vector Network Analyzer

RF Source.....Vector Network Analyzer

Mfr./Model....."ABG"

Mfr./Model.....Rohde & Schwarz ZVB-20

RF Level.....10.000000 dBm

ID Number....."SAMPLE A"

Resolution BW.. 2.000000 kHz

Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Antenna Type..."TOPHAT MONOPOLE"

Detector Function..."SPARAMS (V)"

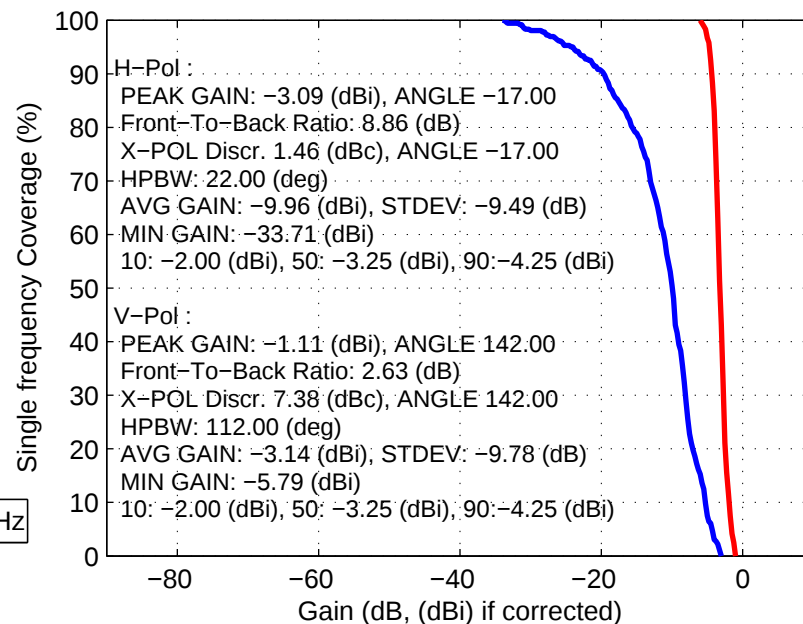
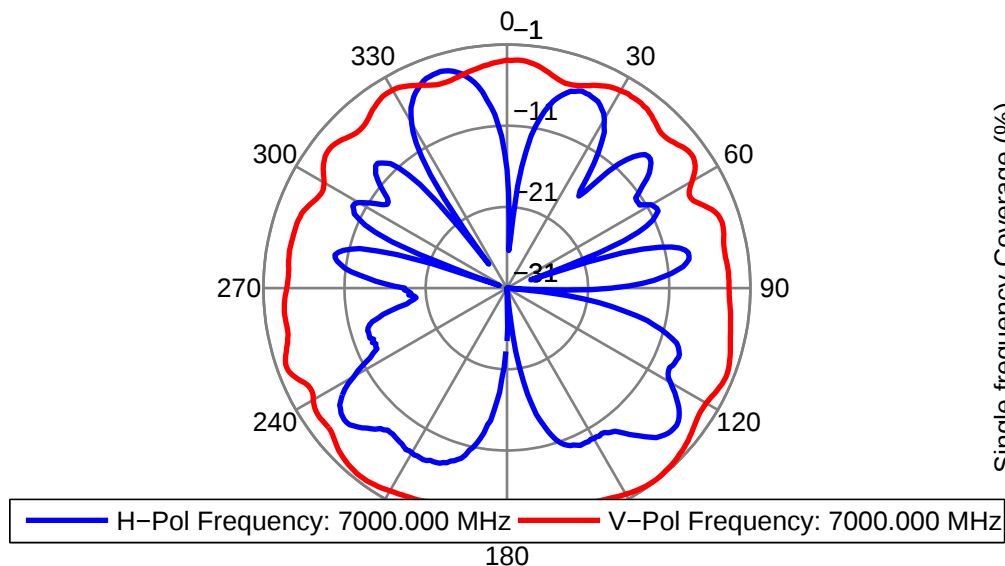
Height....."1.5 m"

Span...N/A

Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT VERTICAL"

Comments....."AZIMUTH CUT THROUGH PLANE OF PCB, THETA = 90, PHI = -179 TO 180 DEG. PHI = 0 DEG AT FEED LOCATION."



Pattern File.....2013-11-26-15-46-22_ELEVATION_CUT_1_002.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9-6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

RF Detector....Vector Network Analyzer

RF Source.....Vector Network Analyzer

Mfr./Model....."ABG"

Mfr./Model.....Rohde & Schwarz ZVB-20

RF Level.....10.000000 dBm

ID Number....."SAMPLE A"

Resolution BW.. 2.000000 kHz

Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Antenna Type..."TOPHAT MONOPOLE"

Detector Function..."SPARAMS (V)"

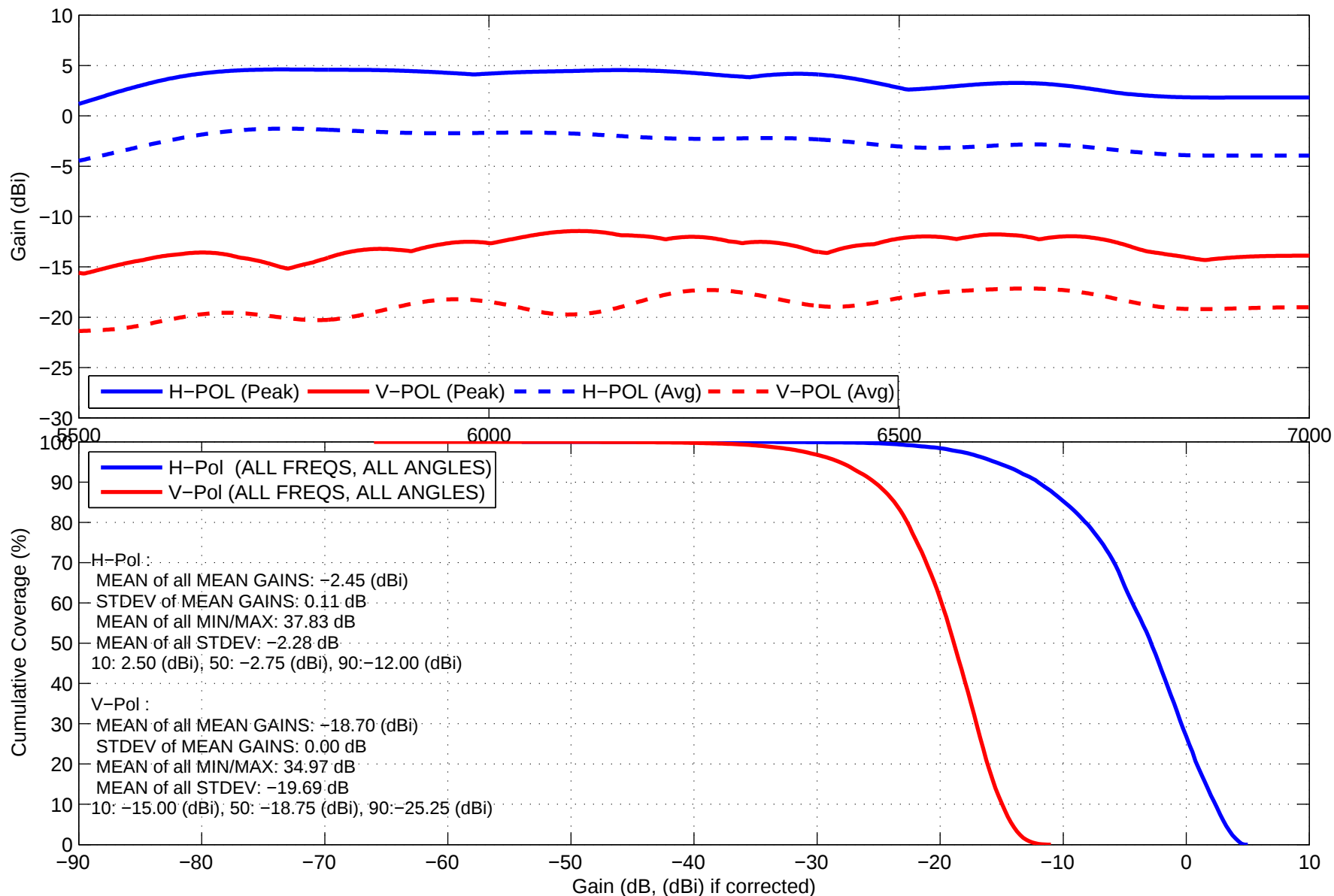
Height....."1.5 m"

Span...N/A

Range....."3 m"

Ant. Location..."CENTER OF AZIMUTH TURNTABLE, ANT HORIZONTAL"

Comments....."ELEVATION CUT ACROSS PLANE OF PCB, THETA = -179 TO 180 DEG. CUT THROUGH FEED AT PHI = 0 DEG."



Pattern File.....2013-11-26-15-46-22_ELEVATION_CUT_1_002.mat

CAL Files.....HPOL: 2013-11-26-16-9-56_XNBAND_CAL_HPOL_007.mat, VPOL: 2013-11-26-16-9-6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

Mfr./Model....."ABG"

ID Number....."SAMPLE A"

Antenna Type..."TOPHAT MONOPOLE"

RF Detector....Vector Network Analyzer

Mfr./Model.....Rohde & Schwarz ZVB-20

Resolution BW.. 2.000000 kHz

Detector Function..."SPARAMS (V)"

Span...N/A

RF Source.....Vector Network Analyzer

RF Level.....10.000000 dBm

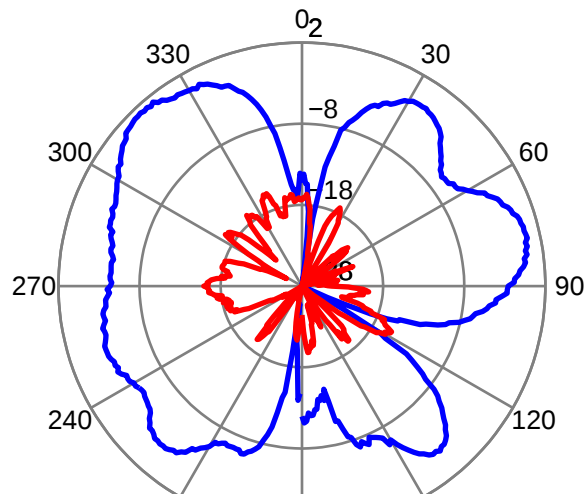
Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Height....."1.5 m"

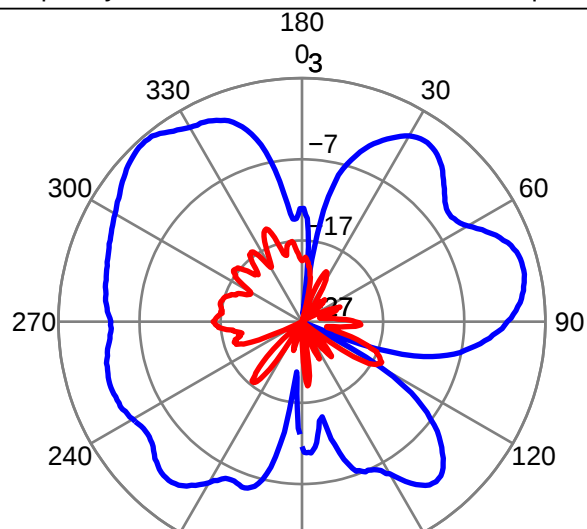
Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT HORIZONTAL"

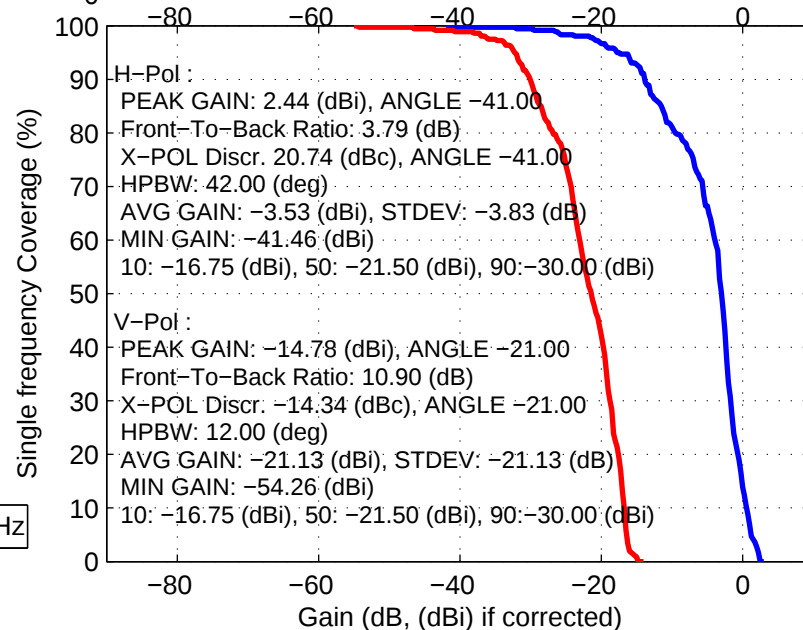
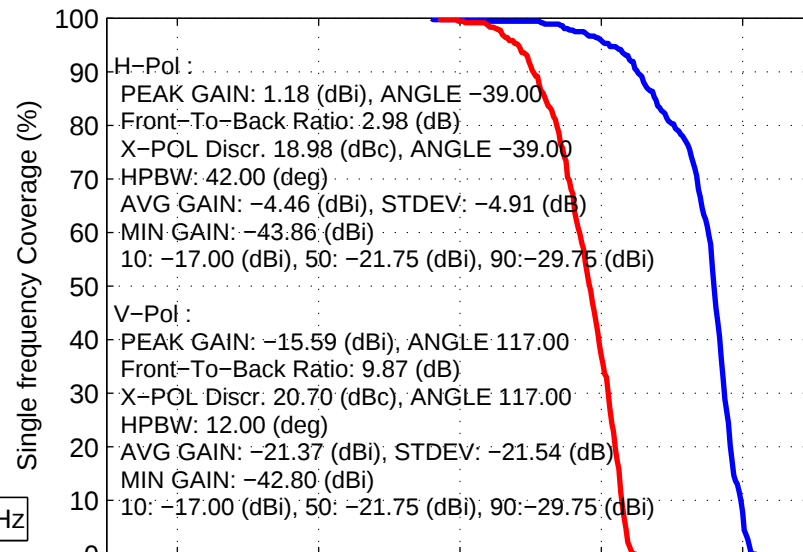
Comments....."ELEVATION CUT ACROSS PLANE OF PCB, THETA = -179 TO 180 DEG. CUT THROUGH FEED AT PHI = 0 DEG."



— H-Pol Frequency: 5500.000 MHz — V-Pol Frequency: 5500.000 MHz



— H-Pol Frequency: 5550.000 MHz — V-Pol Frequency: 5550.000 MHz



Pattern File.....2013-11-26-15-46-22_ELEVATION_CUT_1_002.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9-6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

RF Detector....Vector Network Analyzer

RF Source.....Vector Network Analyzer

Mfr./Model....."ABG"

Mfr./Model.....Rohde & Schwarz ZVB-20

RF Level.....10.000000 dBm

ID Number....."SAMPLE A"

Resolution BW.. 2.000000 kHz

Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Antenna Type..."TOPHAT MONOPOLE"

Detector Function..."SPARAMS (V)"

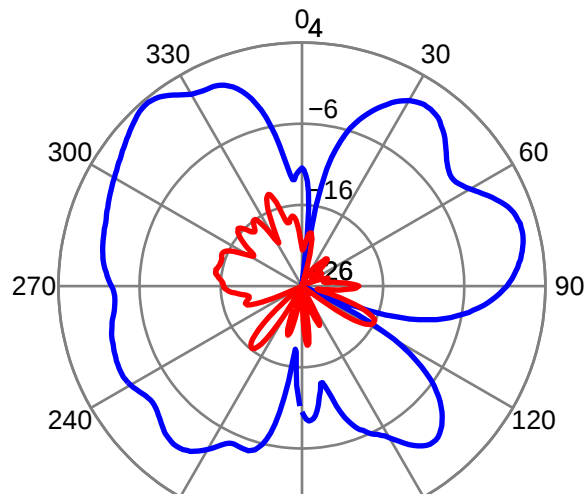
Height....."1.5 m"

Span...N/A

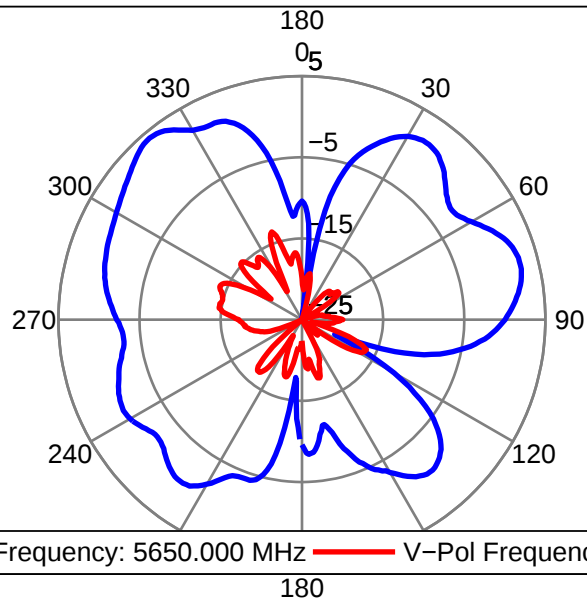
Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT HORIZONTAL"

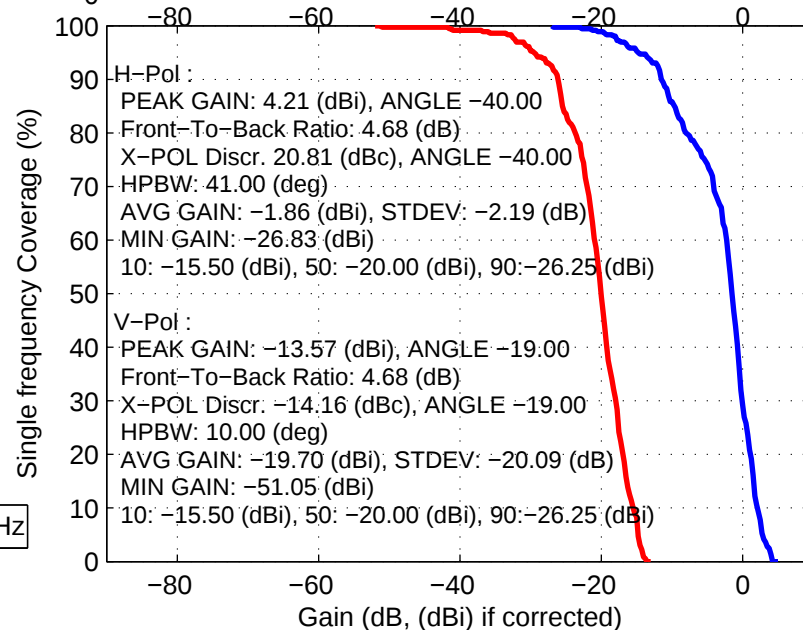
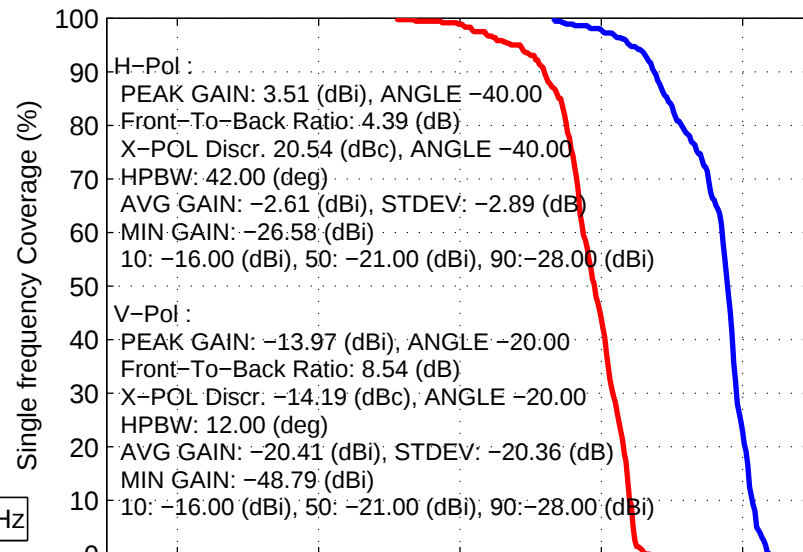
Comments....."ELEVATION CUT ACROSS PLANE OF PCB, THETA = -179 TO 180 DEG. CUT THROUGH FEED AT PHI = 0 DEG."



— H-Pol Frequency: 5600.000 MHz — V-Pol Frequency: 5600.000 MHz



— H-Pol Frequency: 5650.000 MHz — V-Pol Frequency: 5650.000 MHz



Pattern File.....2013-11-26-15-46-22_ELEVATION_CUT_1_002.mat

CAL Files.....HPOL: 2013-11-26-16-9-56_XNBAND_CAL_HPOL_007.mat, VPOL: 2013-11-26-16-9-6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

RF Detector....Vector Network Analyzer

RF Source.....Vector Network Analyzer

Mfr./Model....."ABG"

Mfr./Model.....Rohde & Schwarz ZVB-20

RF Level.....10.000000 dBm

ID Number....."SAMPLE A"

Resolution BW.. 2.000000 kHz

Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Antenna Type..."TOPHAT MONOPOLE"

Detector Function..."SPARAMS (V)"

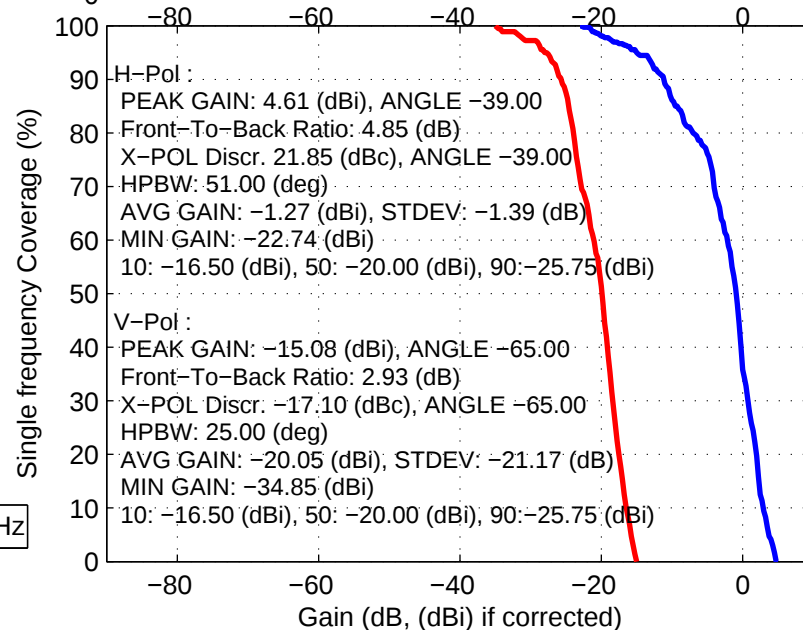
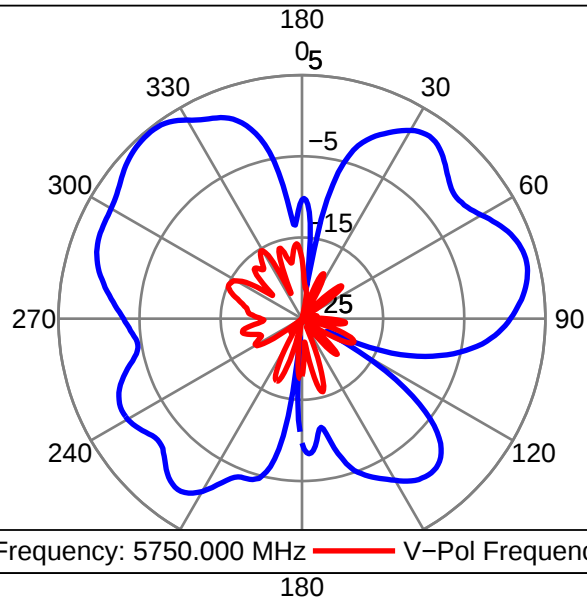
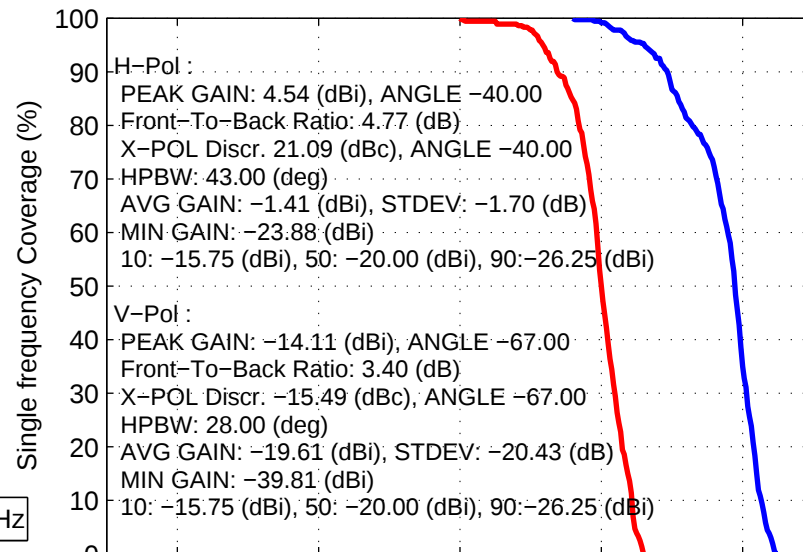
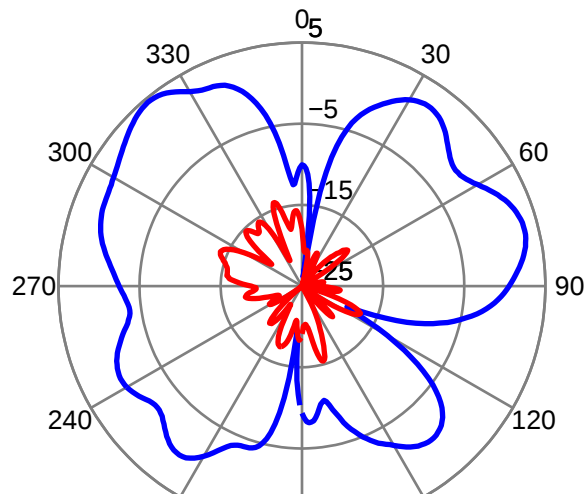
Height....."1.5 m"

Span...N/A

Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT HORIZONTAL"

Comments....."ELEVATION CUT ACROSS PLANE OF PCB, THETA = -179 TO 180 DEG. CUT THROUGH FEED AT PHI = 0 DEG."



Pattern File.....2013-11-26-15-46-22_ELEVATION_CUT_1_002.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9-6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

RF Detector....Vector Network Analyzer

RF Source.....Vector Network Analyzer

Mfr./Model....."ABG"

Mfr./Model.....Rohde & Schwarz ZVB-20

RF Level.....10.000000 dBm

ID Number....."SAMPLE A"

Resolution BW.. 2.000000 kHz

Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Antenna Type..."TOPHAT MONOPOLE"

Detector Function..."SPARAMS (V)"

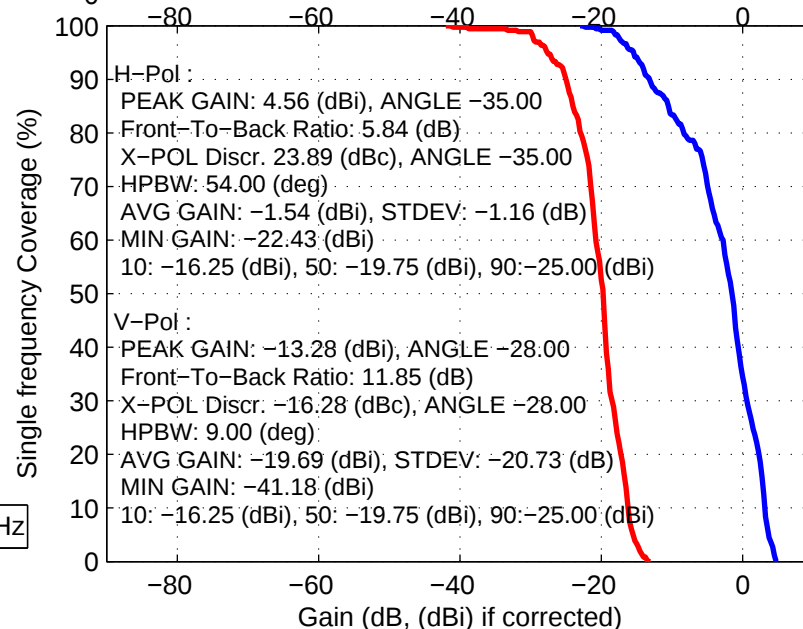
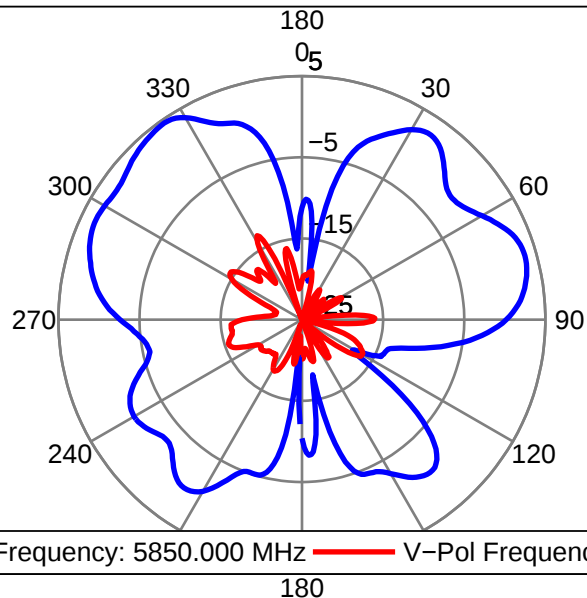
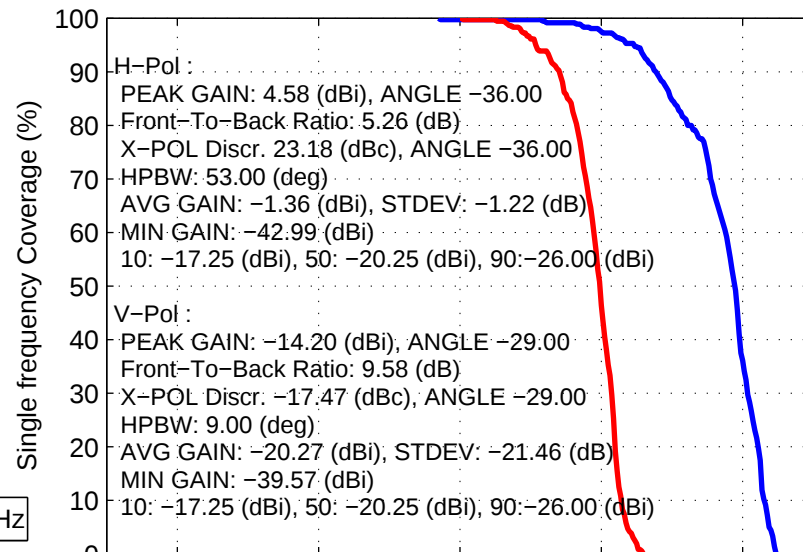
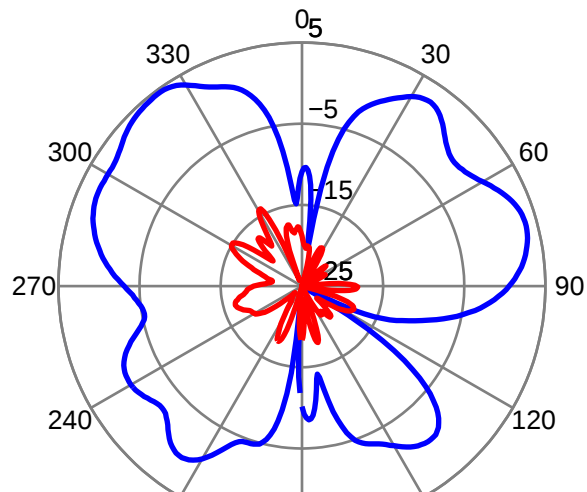
Height....."1.5 m"

Span...N/A

Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT HORIZONTAL"

Comments....."ELEVATION CUT ACROSS PLANE OF PCB, THETA = -179 TO 180 DEG. CUT THROUGH FEED AT PHI = 0 DEG."



Pattern File.....2013-11-26-15-46-22_ELEVATION_CUT_1_002.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9-6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

RF Detector....Vector Network Analyzer

RF Source.....Vector Network Analyzer

Mfr./Model....."ABG"

Mfr./Model.....Rohde & Schwarz ZVB-20

RF Level.....10.000000 dBm

ID Number....."SAMPLE A"

Resolution BW.. 2.000000 kHz

Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Antenna Type..."TOPHAT MONOPOLE"

Detector Function..."SPARAMS (V)"

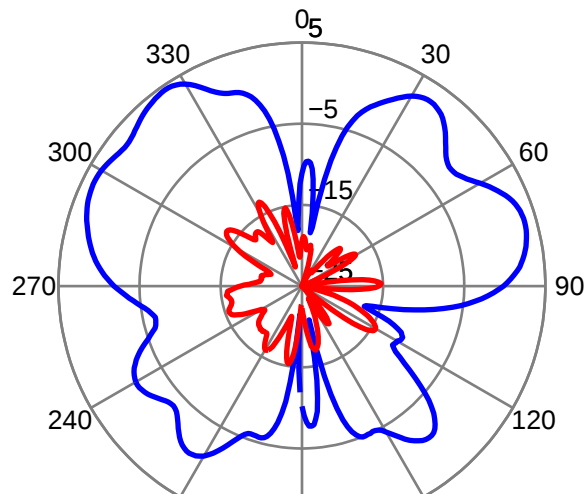
Height....."1.5 m"

Span...N/A

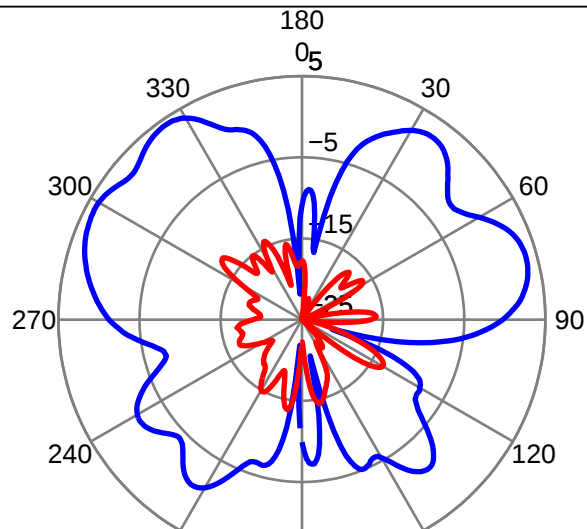
Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT HORIZONTAL"

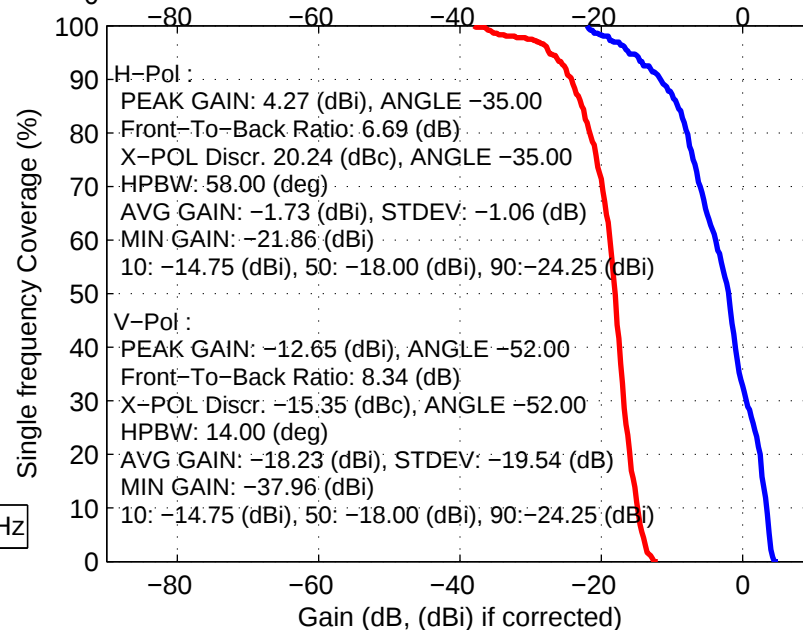
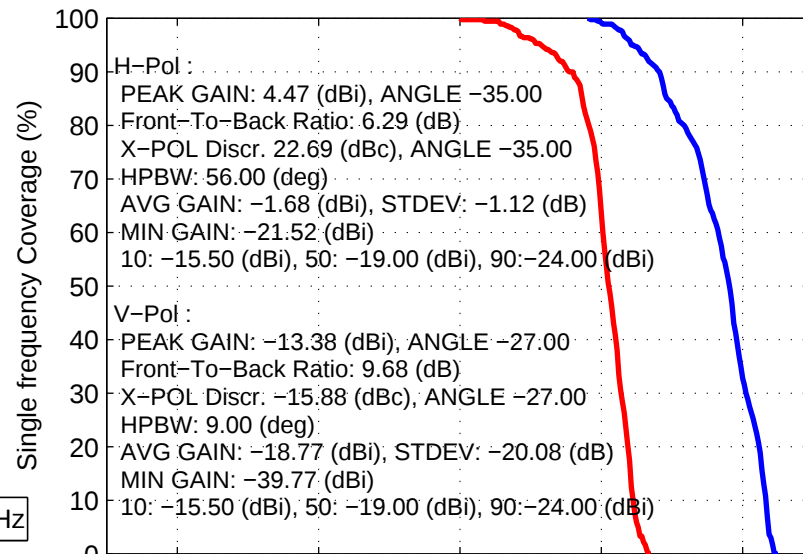
Comments....."ELEVATION CUT ACROSS PLANE OF PCB, THETA = -179 TO 180 DEG. CUT THROUGH FEED AT PHI = 0 DEG."



— H-Pol Frequency: 5900.000 MHz — V-Pol Frequency: 5900.000 MHz



— H-Pol Frequency: 5950.000 MHz — V-Pol Frequency: 5950.000 MHz



Pattern File.....2013-11-26-15-46-22_ELEVATION_CUT_1_002.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9-6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

RF Detector....Vector Network Analyzer

RF Source.....Vector Network Analyzer

Mfr./Model....."ABG"

Mfr./Model.....Rohde & Schwarz ZVB-20

RF Level.....10.000000 dBm

ID Number....."SAMPLE A"

Resolution BW.. 2.000000 kHz

Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Antenna Type..."TOPHAT MONOPOLE"

Detector Function..."SPARAMS (V)"

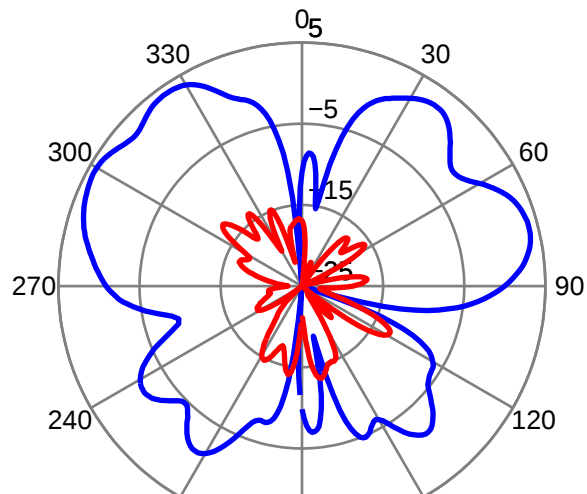
Height....."1.5 m"

Span...N/A

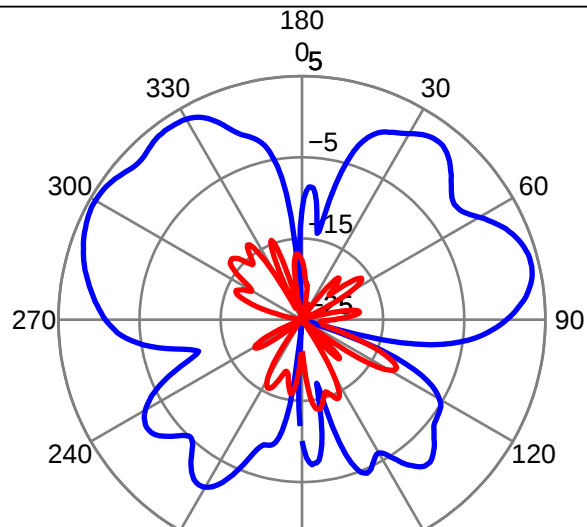
Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT HORIZONTAL"

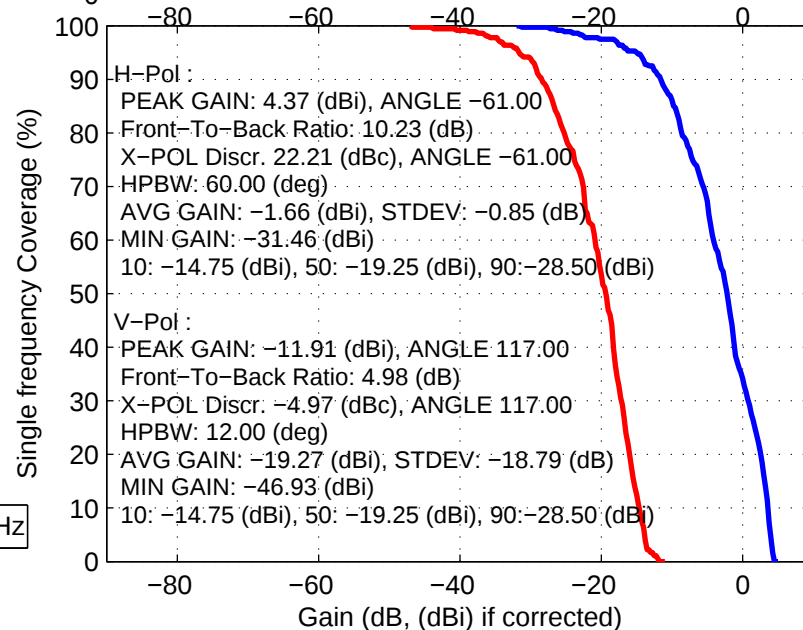
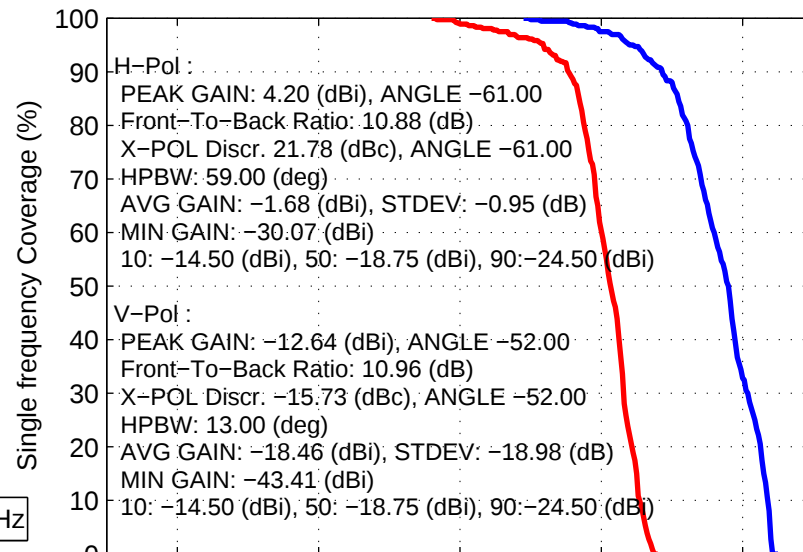
Comments....."ELEVATION CUT ACROSS PLANE OF PCB, THETA = -179 TO 180 DEG. CUT THROUGH FEED AT PHI = 0 DEG."



— H-Pol Frequency: 6000.000 MHz — V-Pol Frequency: 6000.000 MHz



— H-Pol Frequency: 6050.000 MHz — V-Pol Frequency: 6050.000 MHz



Pattern File.....2013-11-26-15-46-22_ELEVATION_CUT_1_002.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9-6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

RF Detector....Vector Network Analyzer

RF Source.....Vector Network Analyzer

Mfr./Model....."ABG"

Mfr./Model.....Rohde & Schwarz ZVB-20

RF Level.....10.000000 dBm

ID Number....."SAMPLE A"

Resolution BW.. 2.000000 kHz

Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Antenna Type..."TOPHAT MONOPOLE"

Detector Function..."SPARAMS (V)"

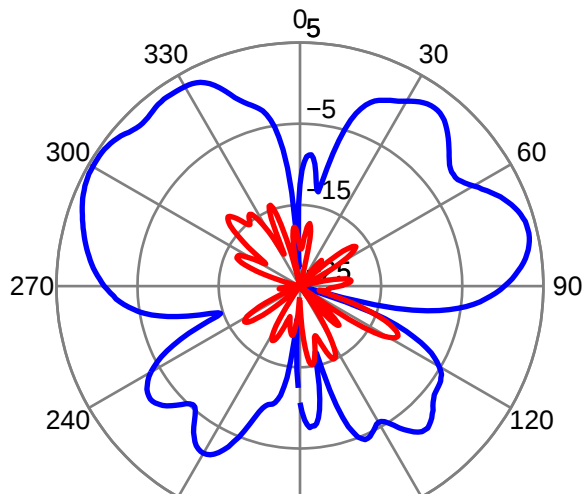
Height....."1.5 m"

Span...N/A

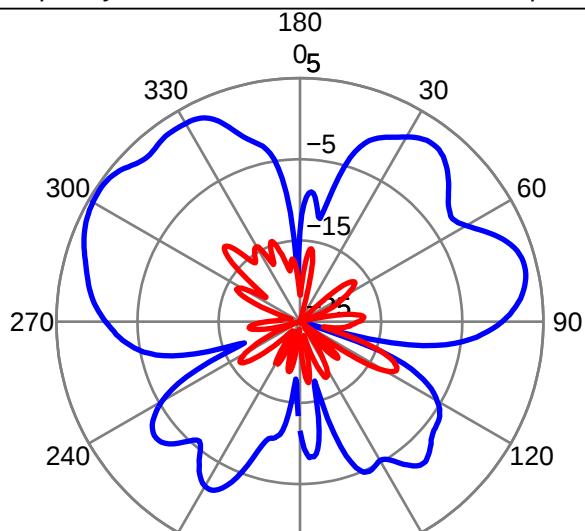
Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT HORIZONTAL"

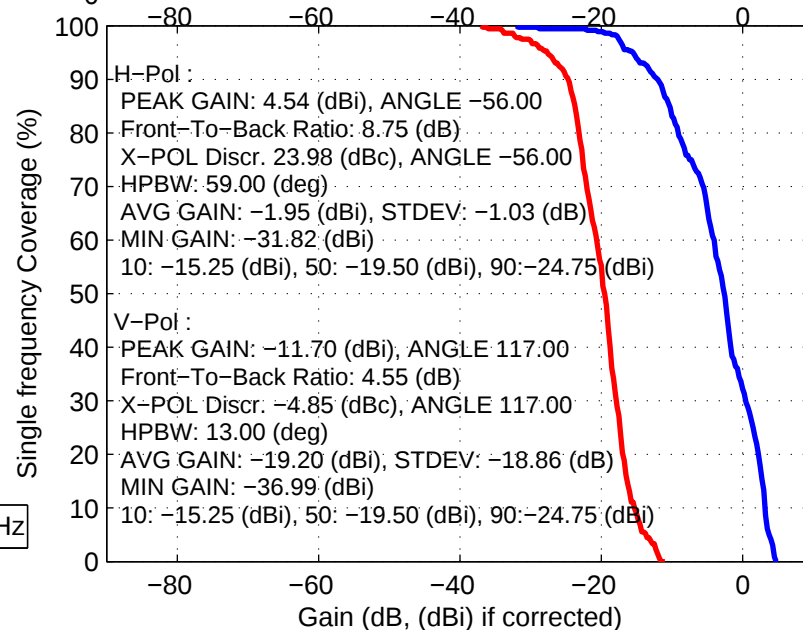
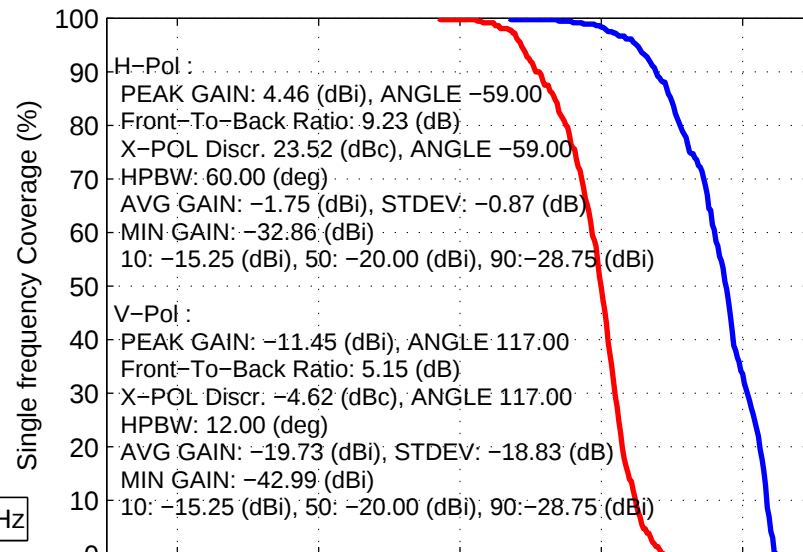
Comments....."ELEVATION CUT ACROSS PLANE OF PCB, THETA = -179 TO 180 DEG. CUT THROUGH FEED AT PHI = 0 DEG."



— H-Pol Frequency: 6100.000 MHz — V-Pol Frequency: 6100.000 MHz



— H-Pol Frequency: 6150.000 MHz — V-Pol Frequency: 6150.000 MHz



Pattern File.....2013-11-26-15-46-22_ELEVATION_CUT_1_002.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9-6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

RF Detector....Vector Network Analyzer

RF Source.....Vector Network Analyzer

Mfr./Model....."ABG"

Mfr./Model.....Rohde & Schwarz ZVB-20

RF Level.....10.000000 dBm

ID Number....."SAMPLE A"

Resolution BW.. 2.000000 kHz

Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Antenna Type..."TOPHAT MONOPOLE"

Detector Function..."SPARAMS (V)"

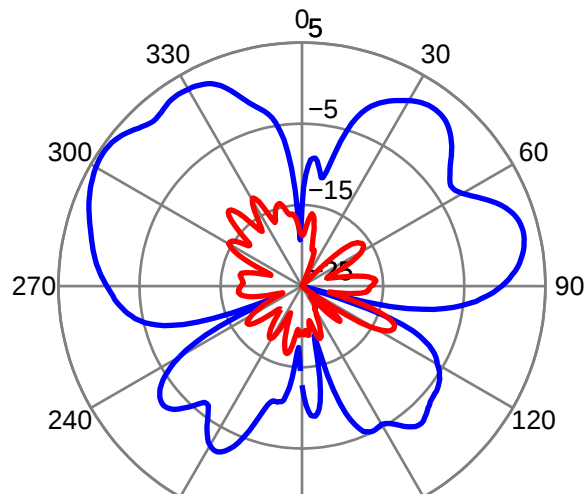
Height....."1.5 m"

Span...N/A

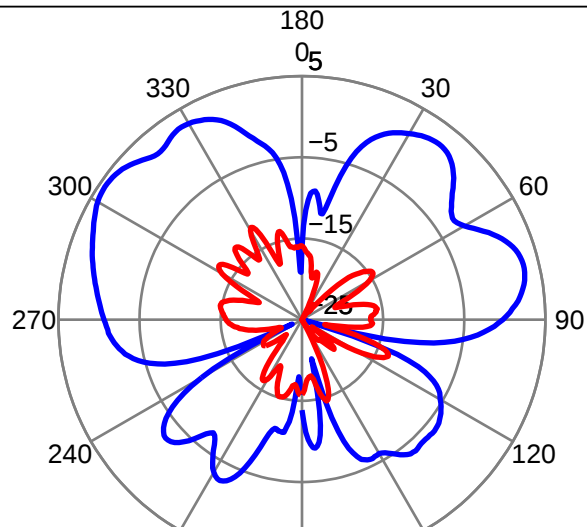
Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT HORIZONTAL"

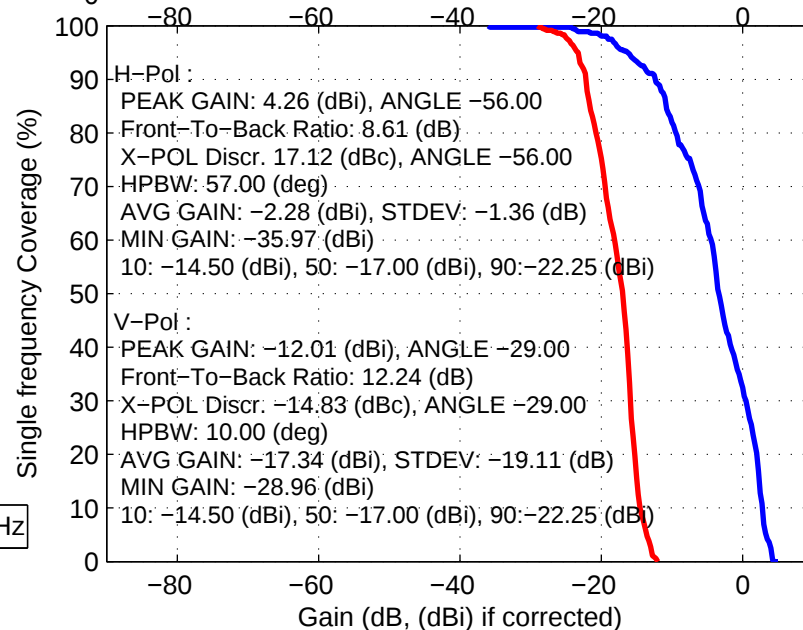
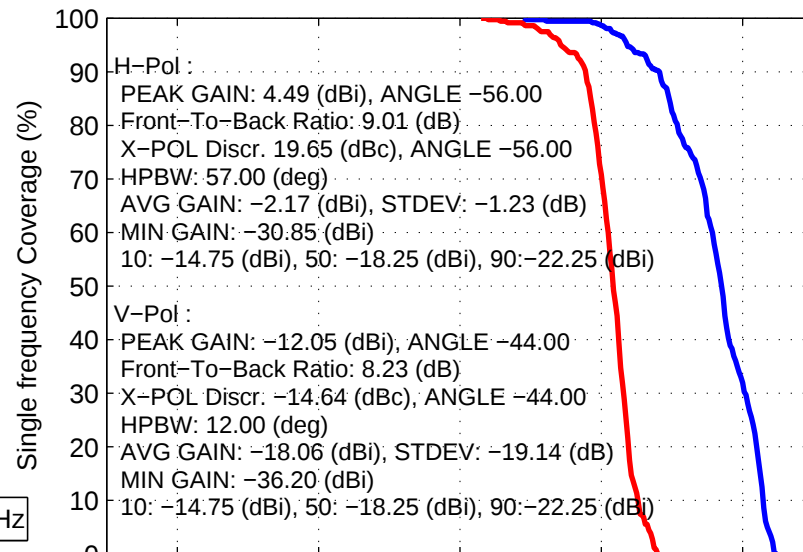
Comments....."ELEVATION CUT ACROSS PLANE OF PCB, THETA = -179 TO 180 DEG. CUT THROUGH FEED AT PHI = 0 DEG."



— H-Pol Frequency: 6200.000 MHz — V-Pol Frequency: 6200.000 MHz



— H-Pol Frequency: 6250.000 MHz — V-Pol Frequency: 6250.000 MHz



Pattern File.....2013-11-26-15-46-22_ELEVATION_CUT_1_002.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9-6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

RF Detector....Vector Network Analyzer

RF Source.....Vector Network Analyzer

Mfr./Model....."ABG"

Mfr./Model.....Rohde & Schwarz ZVB-20

RF Level.....10.000000 dBm

ID Number....."SAMPLE A"

Resolution BW.. 2.000000 kHz

Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Antenna Type..."TOPHAT MONOPOLE"

Detector Function..."SPARAMS (V)"

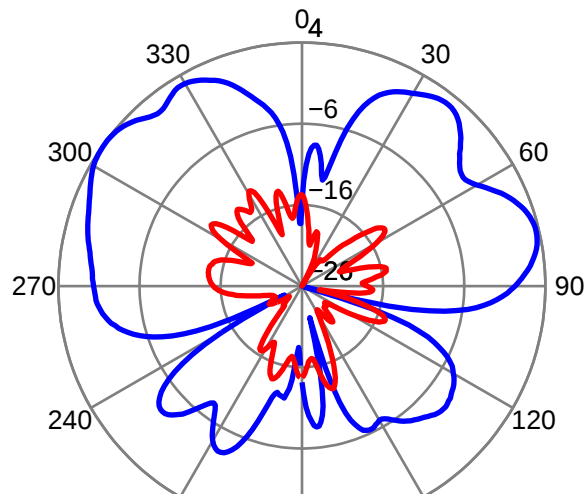
Height....."1.5 m"

Span...N/A

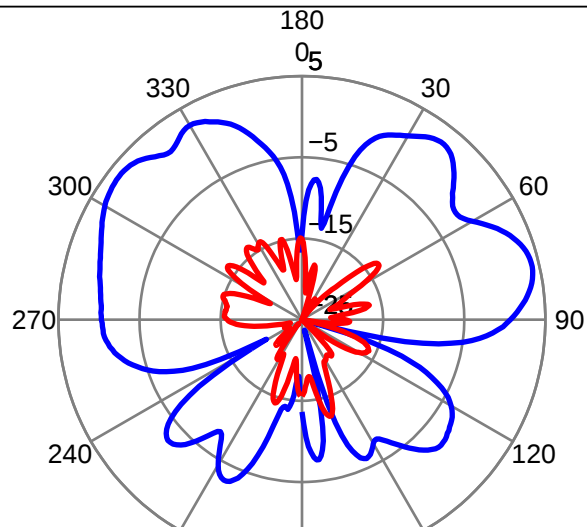
Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT HORIZONTAL"

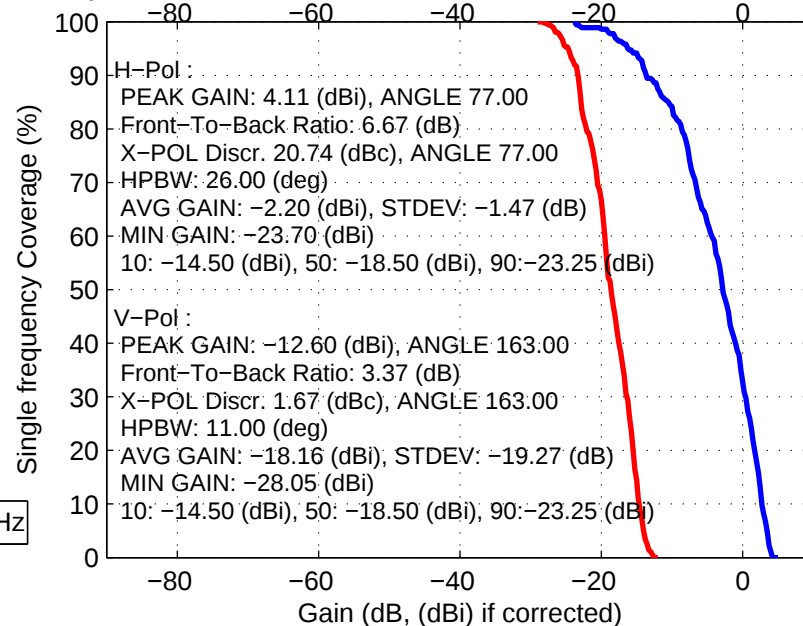
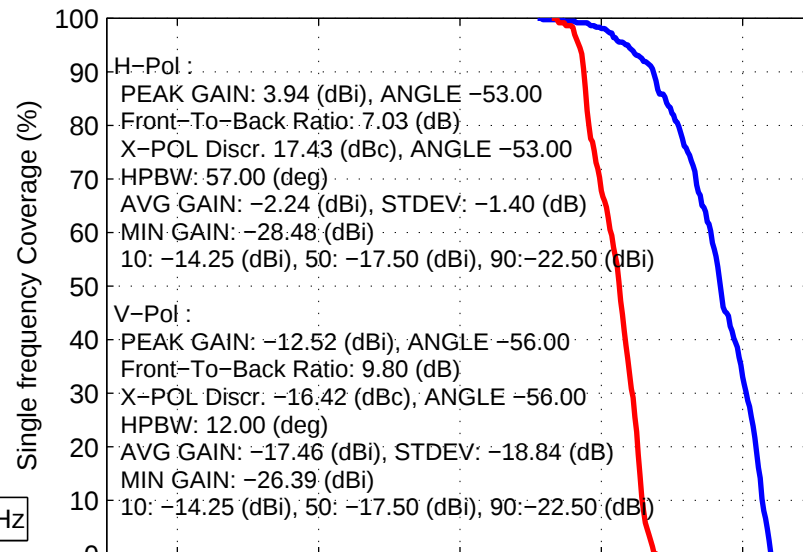
Comments....."ELEVATION CUT ACROSS PLANE OF PCB, THETA = -179 TO 180 DEG. CUT THROUGH FEED AT PHI = 0 DEG."



— H-Pol Frequency: 6300.000 MHz — V-Pol Frequency: 6300.000 MHz



— H-Pol Frequency: 6350.000 MHz — V-Pol Frequency: 6350.000 MHz



Pattern File.....2013-11-26-15-46-22_ELEVATION_CUT_1_002.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9-6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

RF Detector....Vector Network Analyzer

RF Source.....Vector Network Analyzer

Mfr./Model....."ABG"

Mfr./Model.....Rohde & Schwarz ZVB-20

RF Level.....10.000000 dBm

ID Number....."SAMPLE A"

Resolution BW.. 2.000000 kHz

Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Antenna Type..."TOPHAT MONOPOLE"

Detector Function..."SPARAMS (V)"

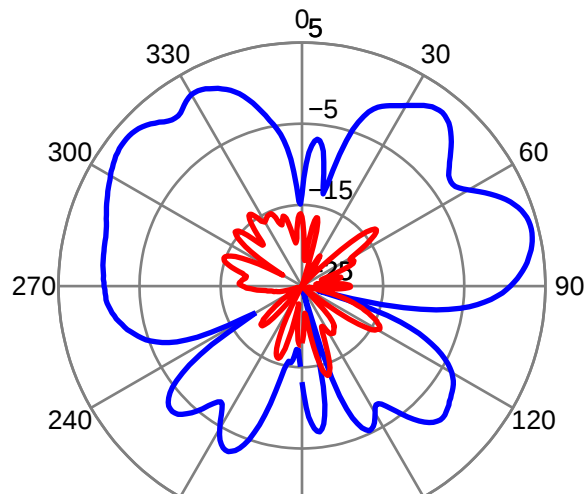
Height....."1.5 m"

Span...N/A

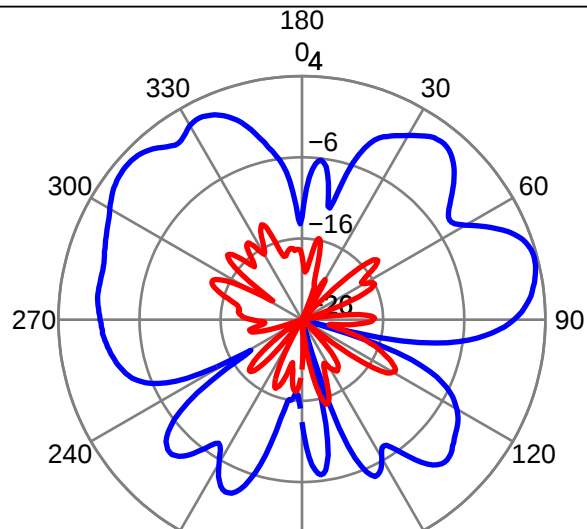
Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT HORIZONTAL"

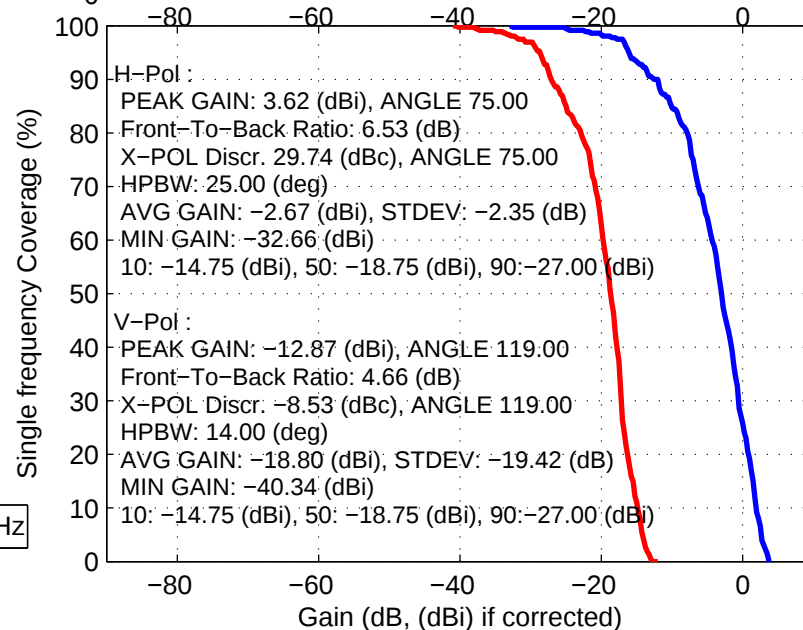
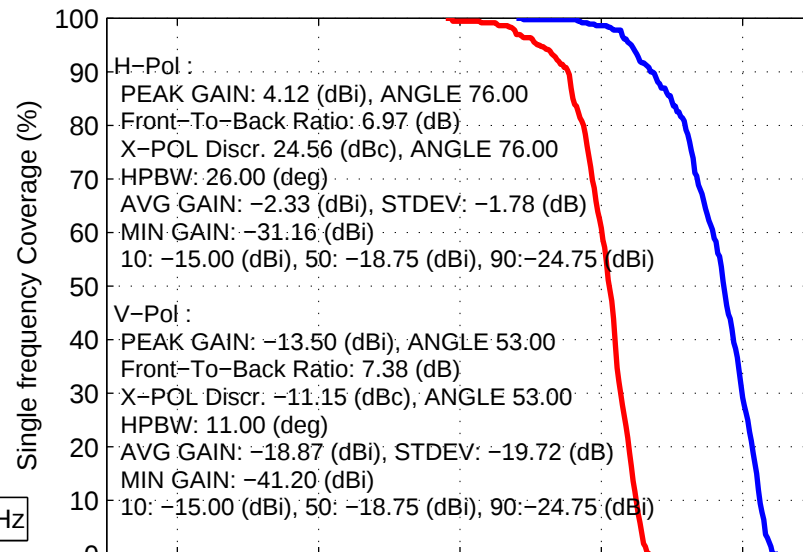
Comments....."ELEVATION CUT ACROSS PLANE OF PCB, THETA = -179 TO 180 DEG. CUT THROUGH FEED AT PHI = 0 DEG."



— H-Pol Frequency: 6400.000 MHz — V-Pol Frequency: 6400.000 MHz



— H-Pol Frequency: 6450.000 MHz — V-Pol Frequency: 6450.000 MHz



Pattern File.....2013-11-26-15-46-22_ELEVATION_CUT_1_002.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9-6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

RF Detector....Vector Network Analyzer

RF Source.....Vector Network Analyzer

Mfr./Model....."ABG"

Mfr./Model.....Rohde & Schwarz ZVB-20

RF Level.....10.000000 dBm

ID Number....."SAMPLE A"

Resolution BW.. 2.000000 kHz

Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Antenna Type..."TOPHAT MONOPOLE"

Detector Function..."SPARAMS (V)"

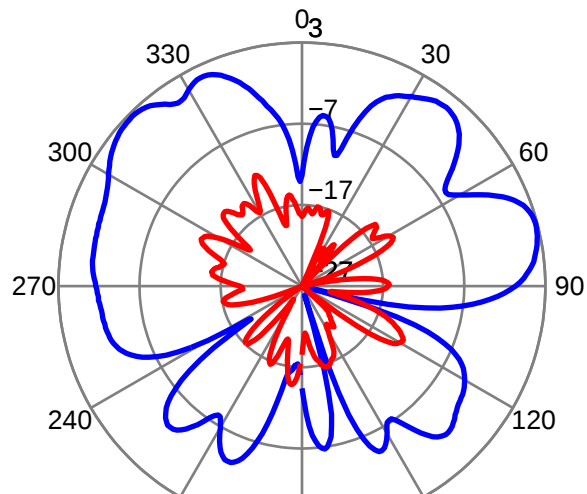
Height....."1.5 m"

Span...N/A

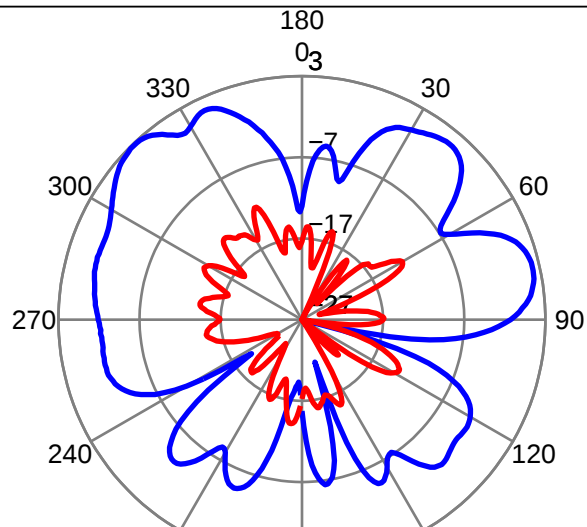
Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT HORIZONTAL"

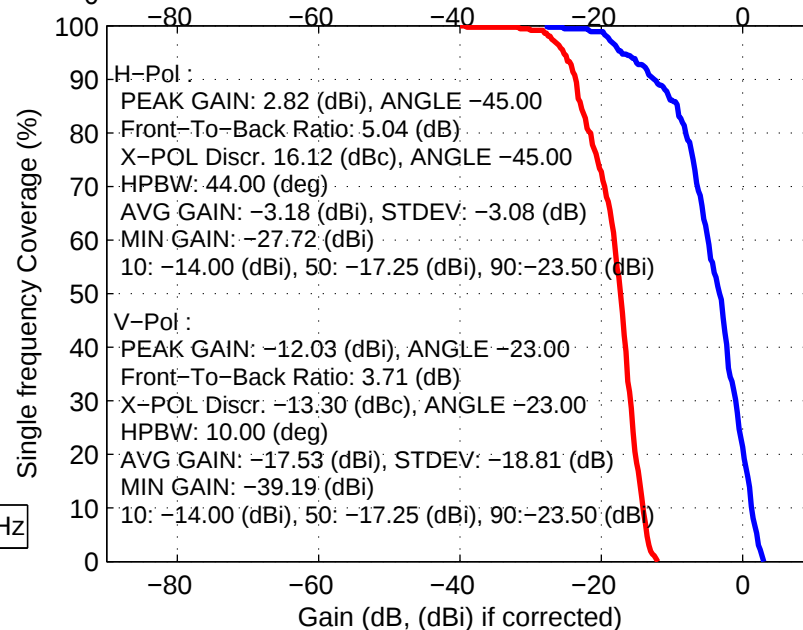
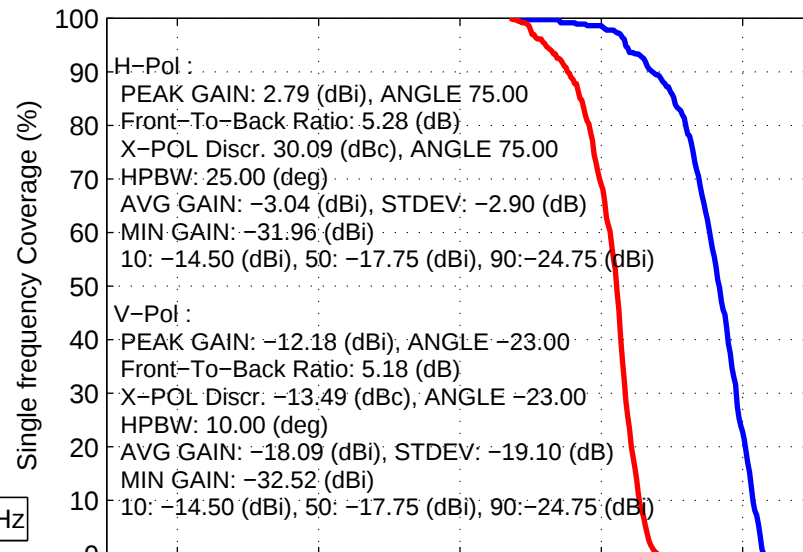
Comments....."ELEVATION CUT ACROSS PLANE OF PCB, THETA = -179 TO 180 DEG. CUT THROUGH FEED AT PHI = 0 DEG."



— H-Pol Frequency: 6500.000 MHz — V-Pol Frequency: 6500.000 MHz



— H-Pol Frequency: 6550.000 MHz — V-Pol Frequency: 6550.000 MHz



Pattern File.....2013-11-26-15-46-22_ELEVATION_CUT_1_002.mat

CAL Files.....HPOL: 2013-11-26-16-9-56_XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9-6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

RF Detector....Vector Network Analyzer

RF Source.....Vector Network Analyzer

Mfr./Model....."ABG"

Mfr./Model.....Rohde & Schwarz ZVB-20

RF Level.....10.000000 dBm

ID Number....."SAMPLE A"

Resolution BW.. 2.000000 kHz

Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Antenna Type..."TOPHAT MONOPOLE"

Detector Function..."SPARAMS (V)"

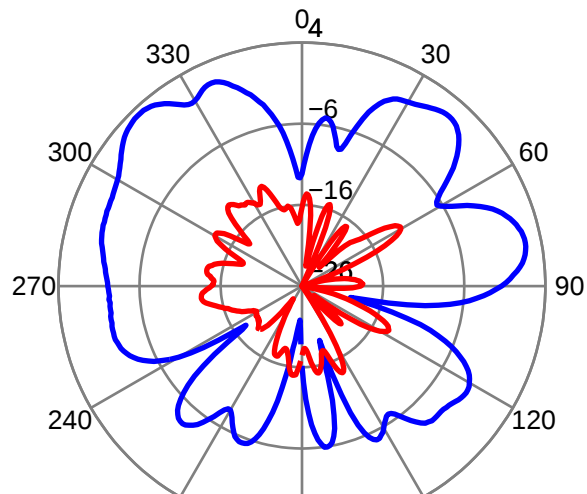
Height....."1.5 m"

Span...N/A

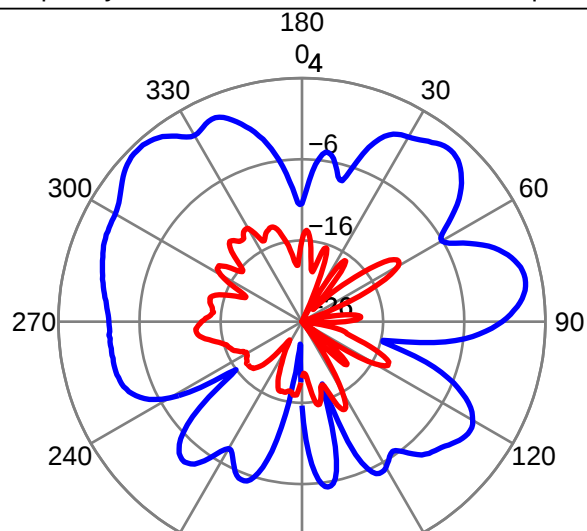
Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT HORIZONTAL"

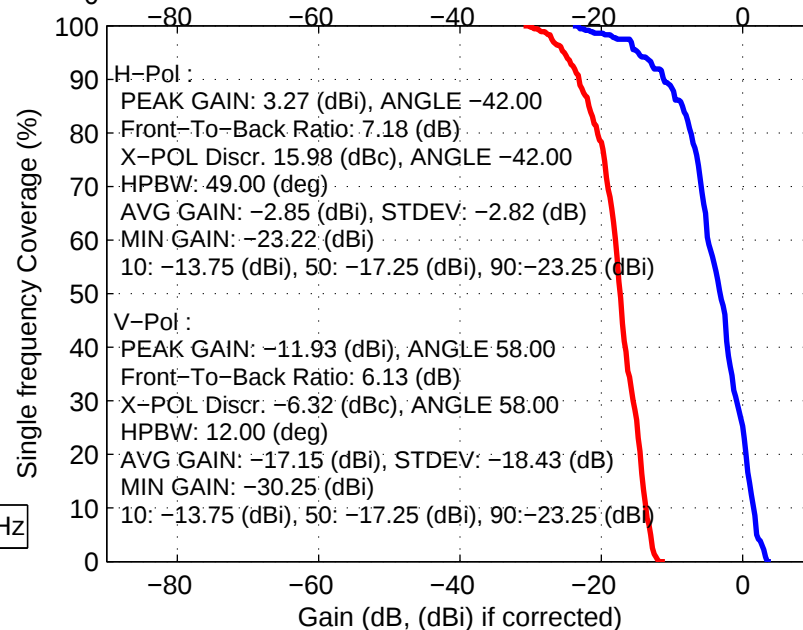
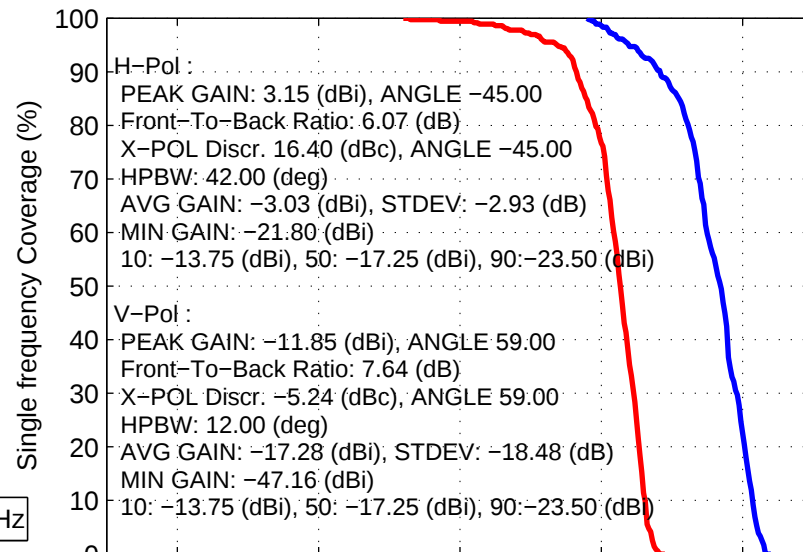
Comments....."ELEVATION CUT ACROSS PLANE OF PCB, THETA = -179 TO 180 DEG. CUT THROUGH FEED AT PHI = 0 DEG."



— H-Pol Frequency: 6600.000 MHz — V-Pol Frequency: 6600.000 MHz



— H-Pol Frequency: 6650.000 MHz — V-Pol Frequency: 6650.000 MHz



Pattern File.....2013-11-26-15-46-22_ELEVATION_CUT_1_002.mat

CAL Files.....HPOL: 2013-11-26-16-9-56_XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9-6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

Mfr./Model....."ABG"

ID Number....."SAMPLE A"

Antenna Type..."TOPHAT MONOPOLE"

RF Detector....Vector Network Analyzer

Mfr./Model.....Rohde & Schwarz ZVB-20

Resolution BW.. 2.000000 kHz

Detector Function..."SPARAMS (V)"

Span...N/A

RF Source.....Vector Network Analyzer

RF Level.....10.000000 dBm

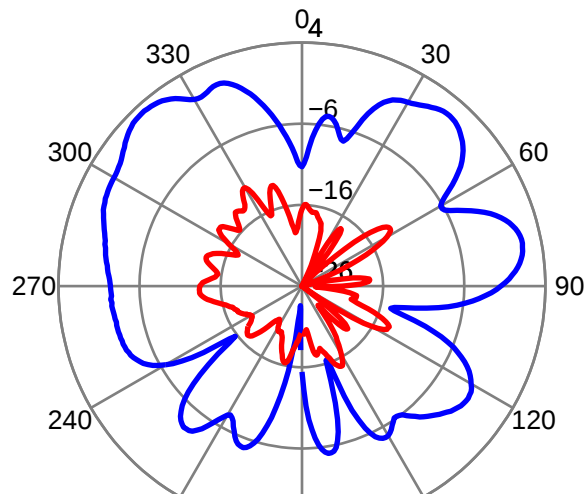
Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Height....."1.5 m"

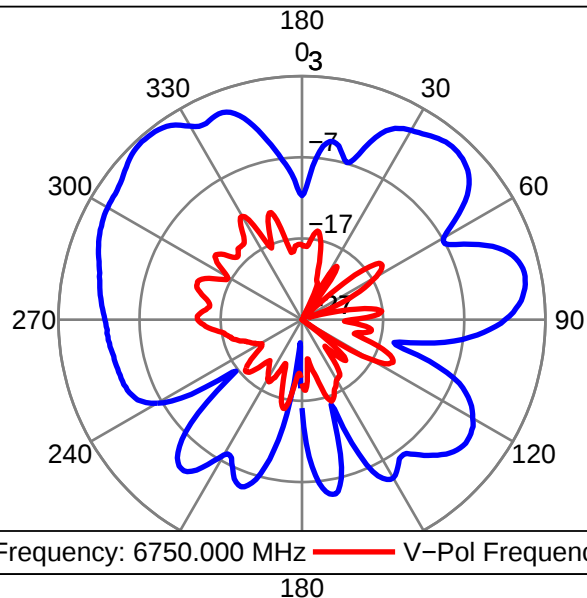
Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT HORIZONTAL"

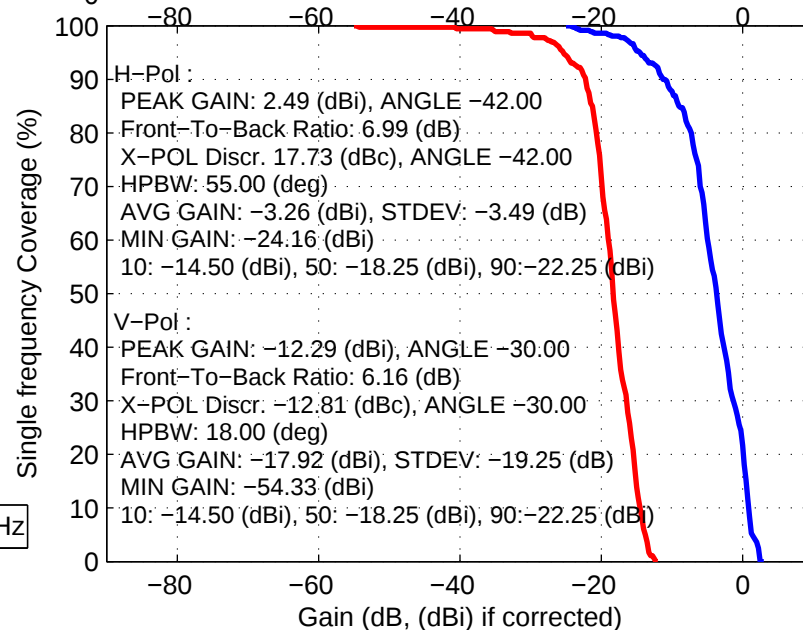
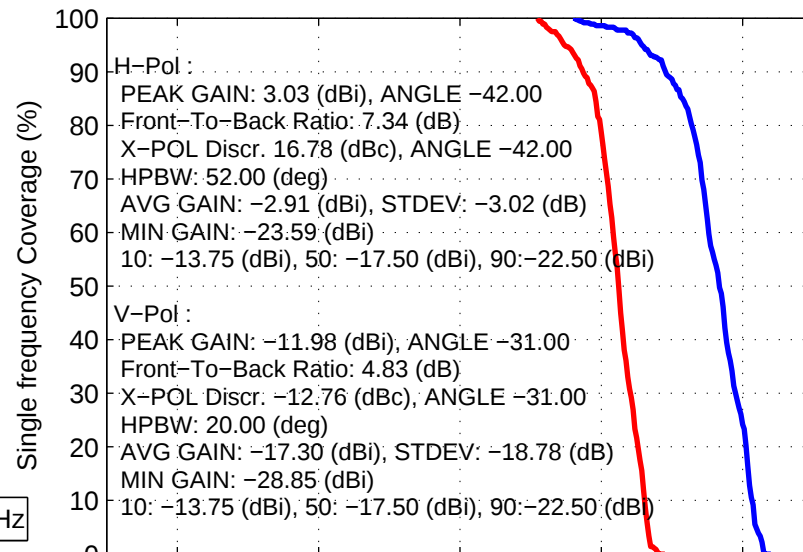
Comments....."ELEVATION CUT ACROSS PLANE OF PCB, THETA = -179 TO 180 DEG. CUT THROUGH FEED AT PHI = 0 DEG."



— H-Pol Frequency: 6700.000 MHz — V-Pol Frequency: 6700.000 MHz



— H-Pol Frequency: 6750.000 MHz — V-Pol Frequency: 6750.000 MHz



Pattern File.....2013-11-26-15-46-22_ELEVATION_CUT_1_002.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9-6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

RF Detector....Vector Network Analyzer

RF Source.....Vector Network Analyzer

Mfr./Model....."ABG"

Mfr./Model.....Rohde & Schwarz ZVB-20

RF Level.....10.000000 dBm

ID Number....."SAMPLE A"

Resolution BW.. 2.000000 kHz

Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Antenna Type..."TOPHAT MONOPOLE"

Detector Function..."SPARAMS (V)"

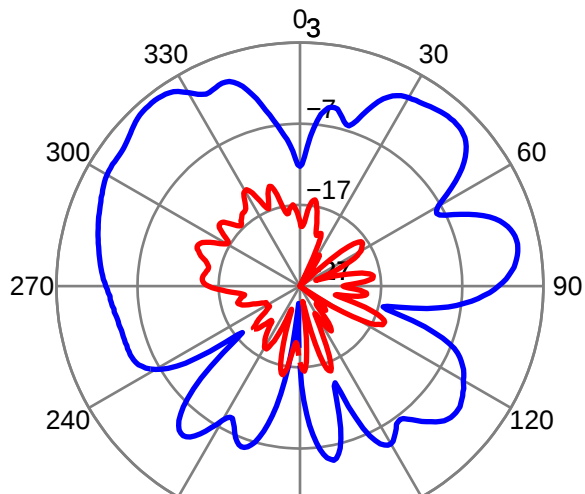
Height....."1.5 m"

Span...N/A

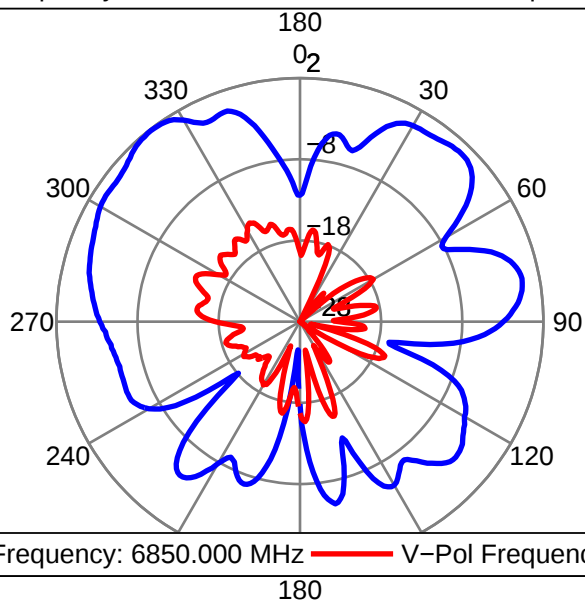
Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT HORIZONTAL"

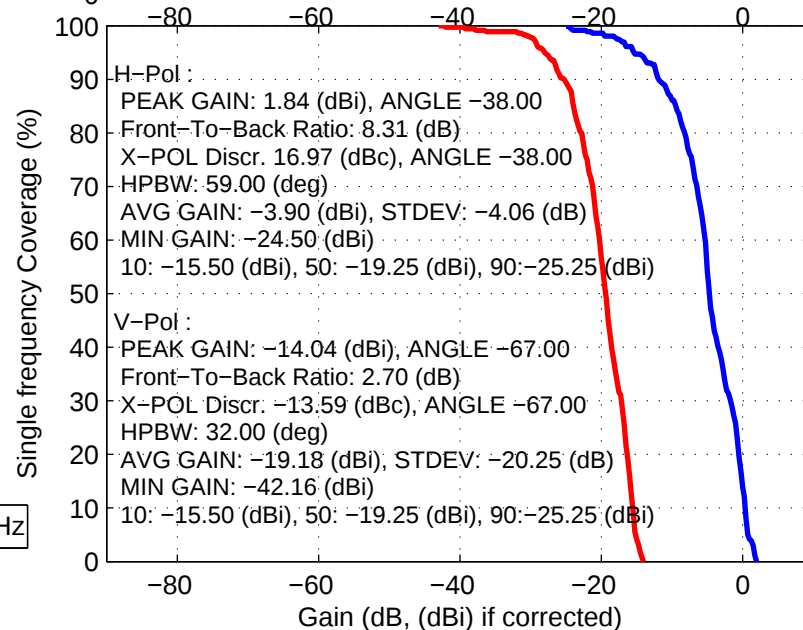
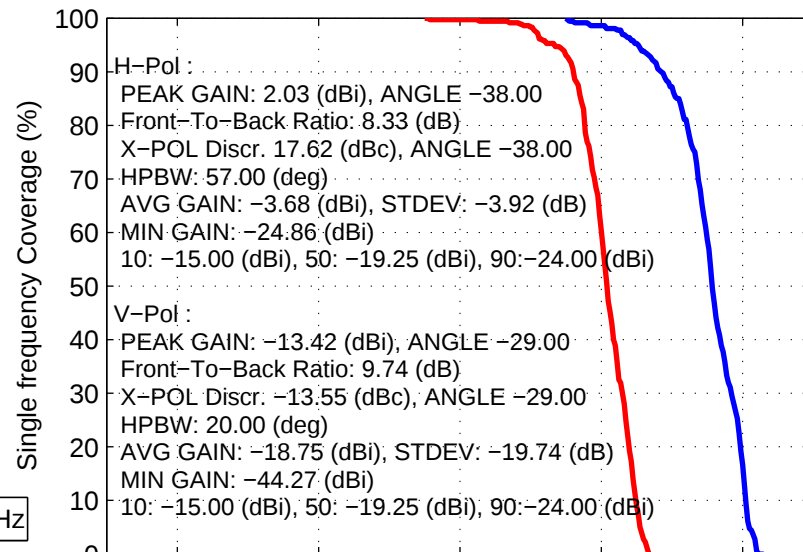
Comments....."ELEVATION CUT ACROSS PLANE OF PCB, THETA = -179 TO 180 DEG. CUT THROUGH FEED AT PHI = 0 DEG."



— H-Pol Frequency: 6800.000 MHz — V-Pol Frequency: 6800.000 MHz



— H-Pol Frequency: 6850.000 MHz — V-Pol Frequency: 6850.000 MHz



Pattern File.....2013-11-26-15-46-22_ELEVATION_CUT_1_002.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9-6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

RF Detector....Vector Network Analyzer

RF Source.....Vector Network Analyzer

Mfr./Model....."ABG"

Mfr./Model.....Rohde & Schwarz ZVB-20

RF Level.....10.000000 dBm

ID Number....."SAMPLE A"

Resolution BW.. 2.000000 kHz

Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Antenna Type..."TOPHAT MONOPOLE"

Detector Function..."SPARAMS (V)"

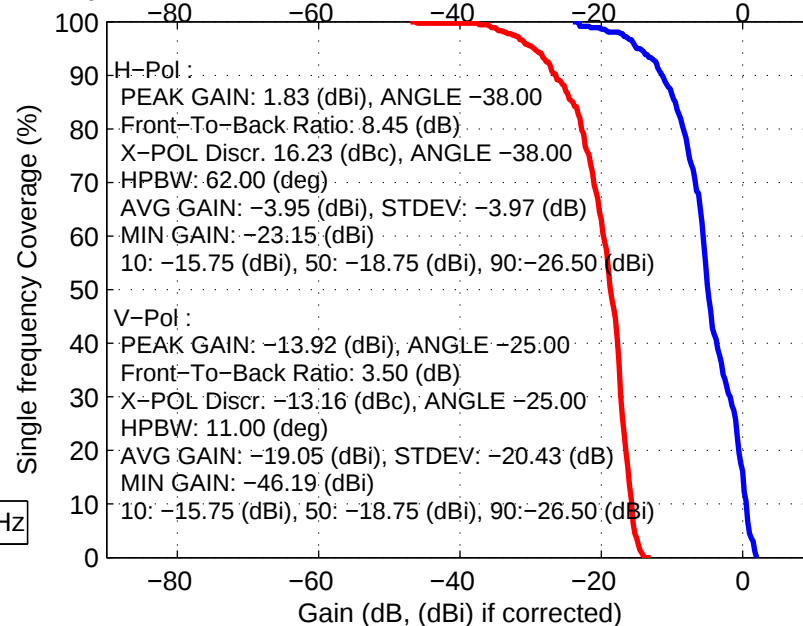
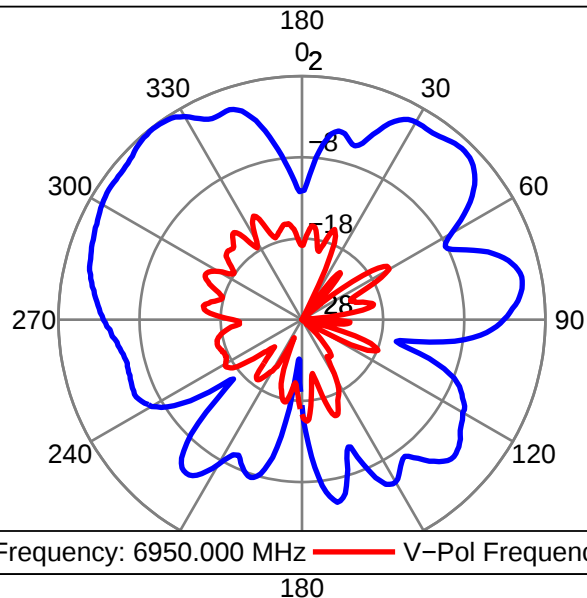
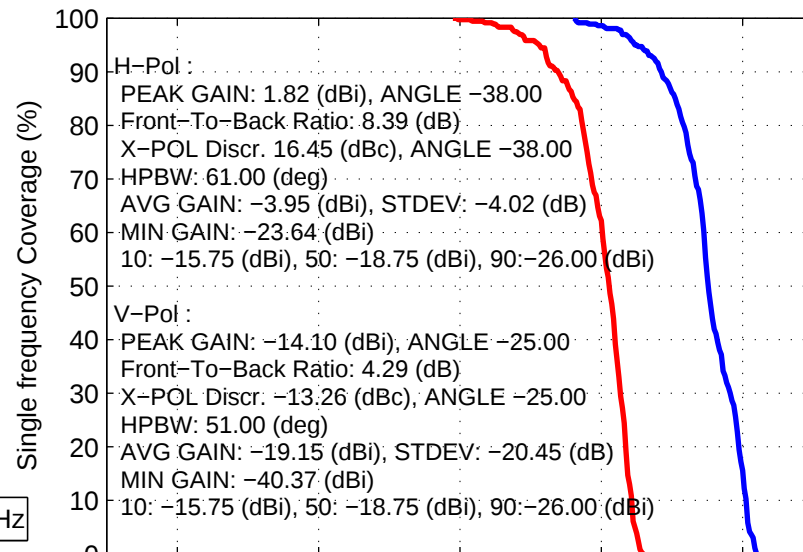
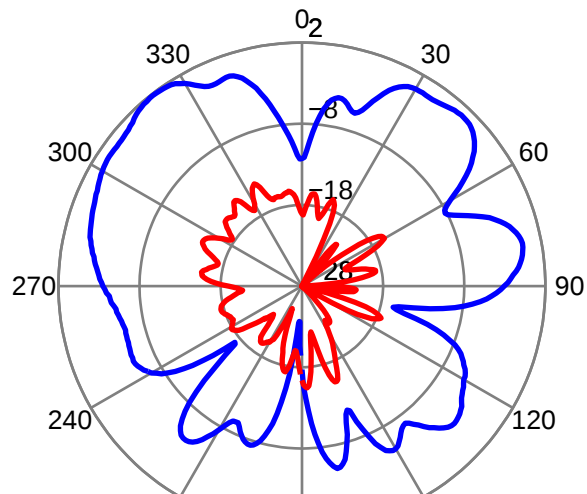
Height....."1.5 m"

Span...N/A

Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT HORIZONTAL"

Comments....."ELEVATION CUT ACROSS PLANE OF PCB, THETA = -179 TO 180 DEG. CUT THROUGH FEED AT PHI = 0 DEG."



Pattern File.....2013-11-26-15-46-22_ELEVATION_CUT_1_002.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9-6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

Mfr./Model....."ABG"

ID Number....."SAMPLE A"

Antenna Type..."TOPHAT MONOPOLE"

RF Detector....Vector Network Analyzer

Mfr./Model.....Rohde & Schwarz ZVB-20

Resolution BW.. 2.000000 kHz

Detector Function..."SPARAMS (V)"

Span...N/A

RF Source.....Vector Network Analyzer

RF Level.....10.000000 dBm

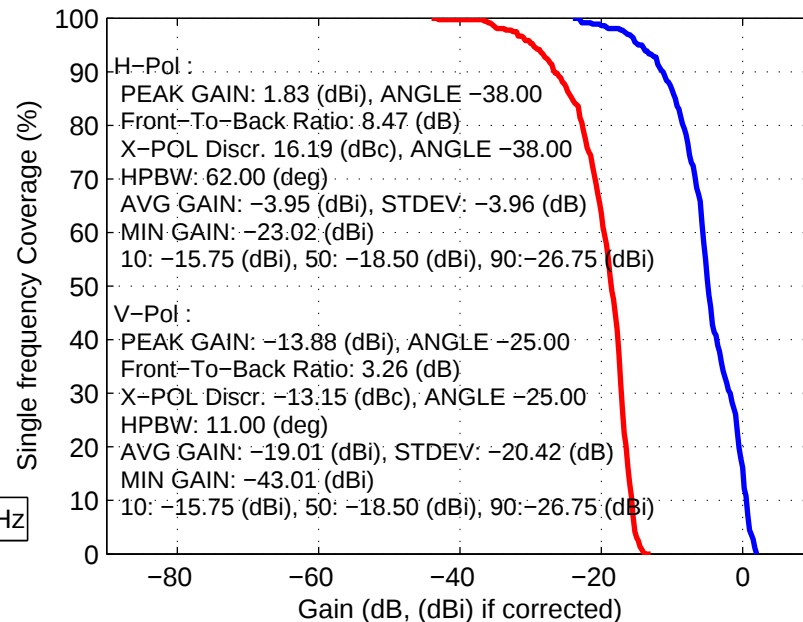
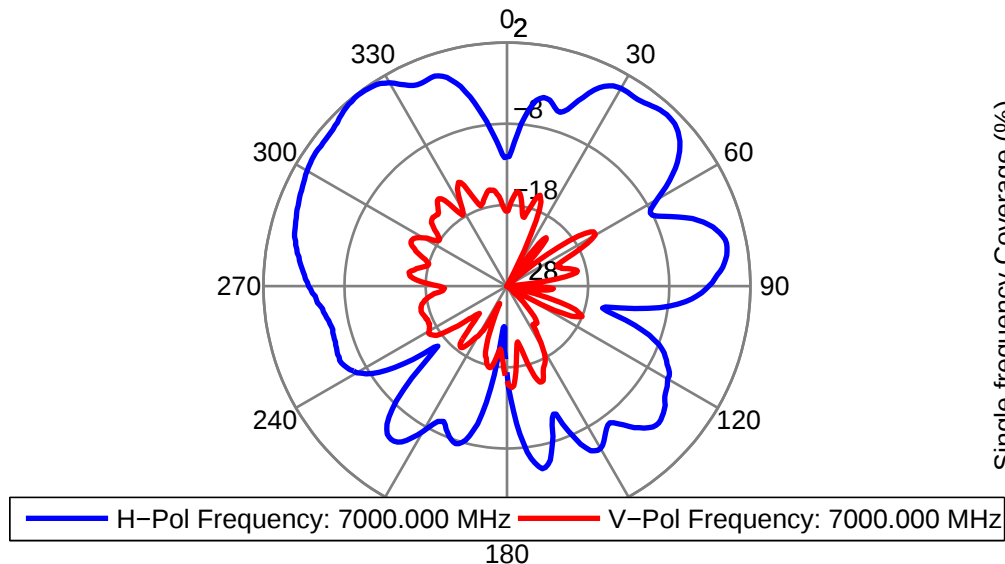
Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Height....."1.5 m"

Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT HORIZONTAL"

Comments....."ELEVATION CUT ACROSS PLANE OF PCB, THETA = -179 TO 180 DEG. CUT THROUGH FEED AT PHI = 0 DEG."



Pattern File.....2013-11-26-16-0- 8_ELEVATION_CUT_2_003.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9- 6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

RF Detector....Vector Network Analyzer

RF Source.....Vector Network Analyzer

Mfr./Model....."ABG"

Mfr./Model.....Rohde & Schwarz ZVB-20

RF Level.....10.000000 dBm

ID Number....."SAMPLE A"

Resolution BW.. 2.000000 kHz

Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Antenna Type..."TOPHAT MONOPOLE"

Detector Function..."SPARAMS (V)"

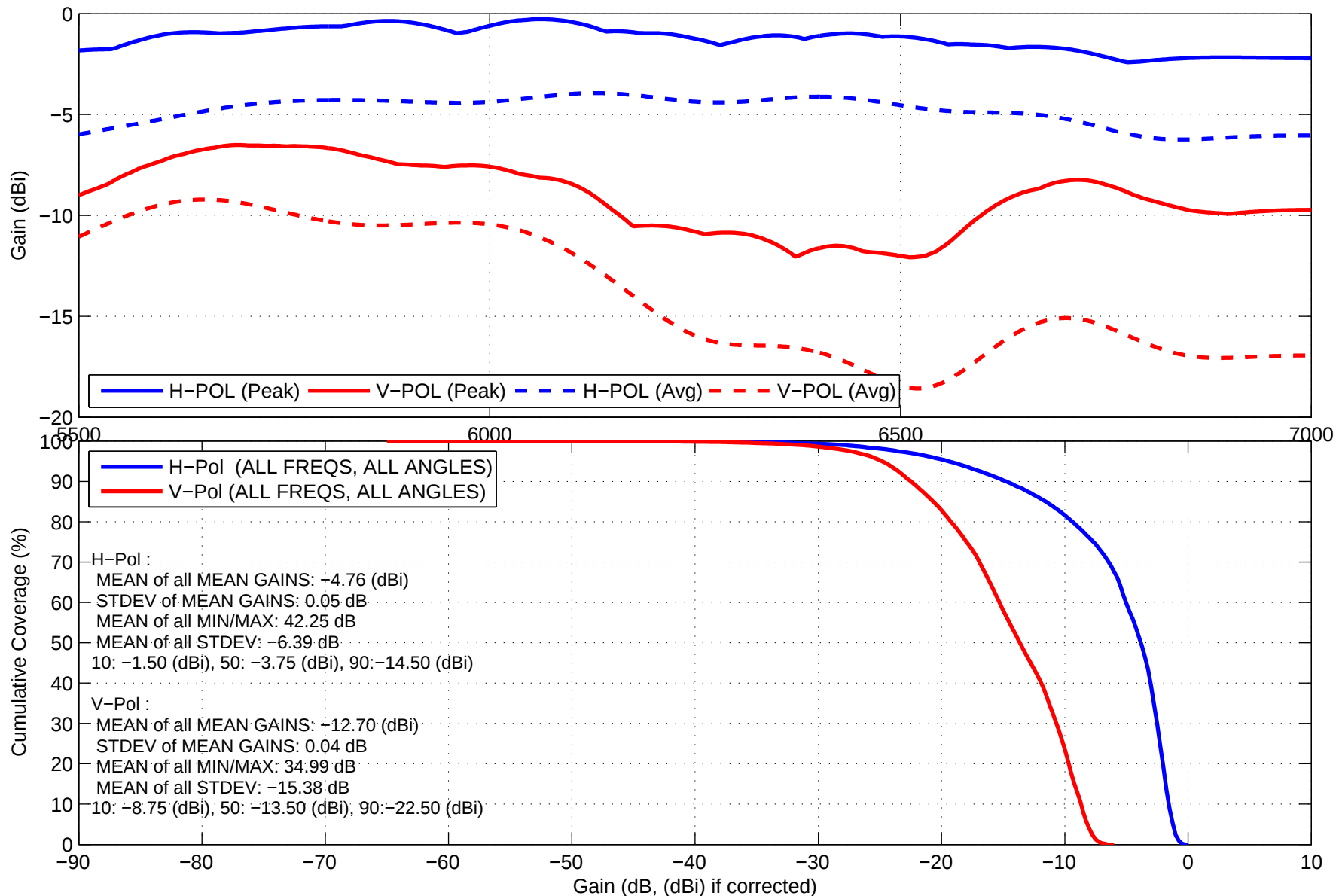
Height....."1.5 m"

Span...N/A

Range....."3 m"

Ant. Location..."CENTER OF AZIMUTH TURNTABLE, ANT HORIZONTAL"

Comments....."ELEVATION CUT ACROSS PLANE OF PCB, THETA = -179 TO 180 DEG. CUT PERP TO FEED AT PHI = 90 DEG, THROUGH NARROW DIMENSION"



Pattern File.....2013-11-26-16-0- 8_ELEVATION_CUT_2_003.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9- 6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

RF Detector....Vector Network Analyzer

RF Source.....Vector Network Analyzer

Mfr./Model....."ABG"

Mfr./Model.....Rohde & Schwarz ZVB-20

RF Level.....10.000000 dBm

ID Number....."SAMPLE A"

Resolution BW.. 2.000000 kHz

Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Antenna Type..."TOPHAT MONOPOLE"

Detector Function..."SPARAMS (V)"

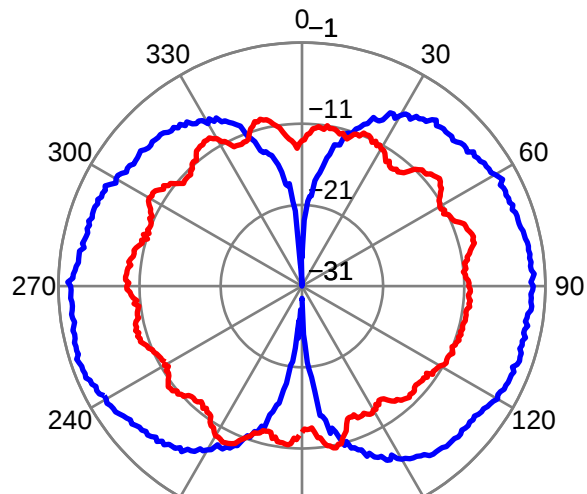
Height....."1.5 m"

Span...N/A

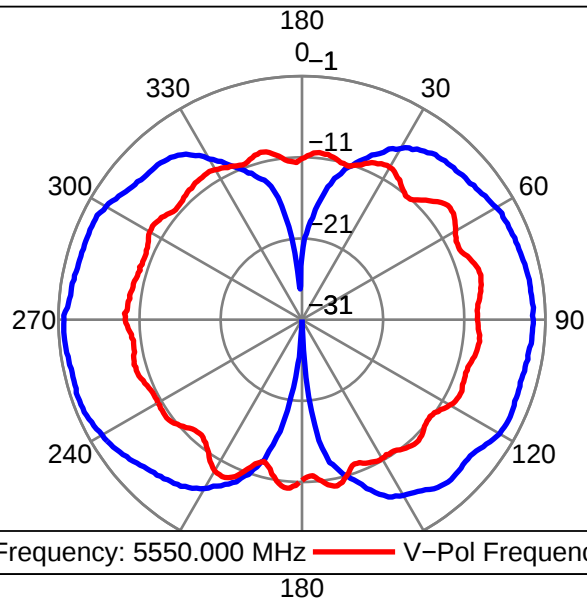
Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT HORIZONTAL"

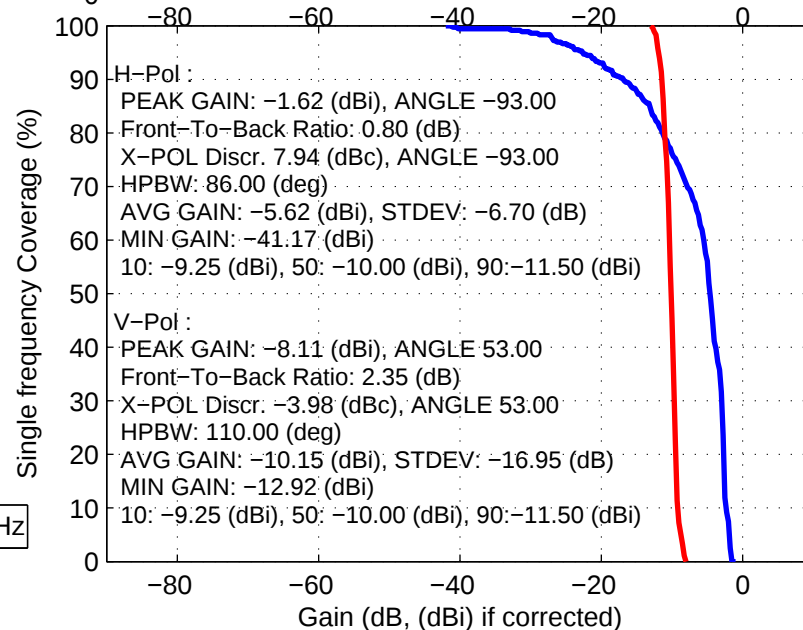
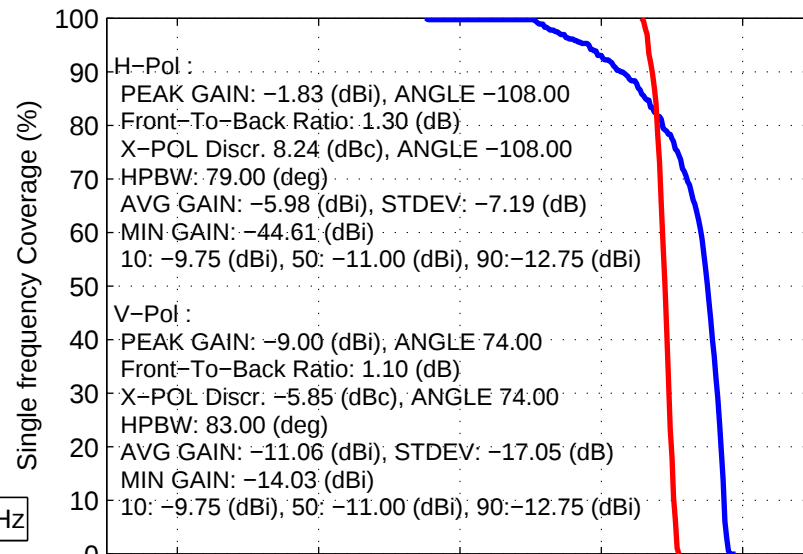
Comments....."ELEVATION CUT ACROSS PLANE OF PCB, THETA = -179 TO 180 DEG. CUT PERP TO FEED AT PHI = 90 DEG, THROUGH NARROW DIMENSION"



— H-Pol Frequency: 5500.000 MHz — V-Pol Frequency: 5500.000 MHz



— H-Pol Frequency: 5550.000 MHz — V-Pol Frequency: 5550.000 MHz



Pattern File.....2013-11-26-16-0- 8_ELEVATION_CUT_2_003.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9- 6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

RF Detector....Vector Network Analyzer

RF Source.....Vector Network Analyzer

Mfr./Model....."ABG"

Mfr./Model.....Rohde & Schwarz ZVB-20

RF Level.....10.000000 dBm

ID Number....."SAMPLE A"

Resolution BW.. 2.000000 kHz

Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Antenna Type..."TOPHAT MONOPOLE"

Detector Function..."SPARAMS (V)"

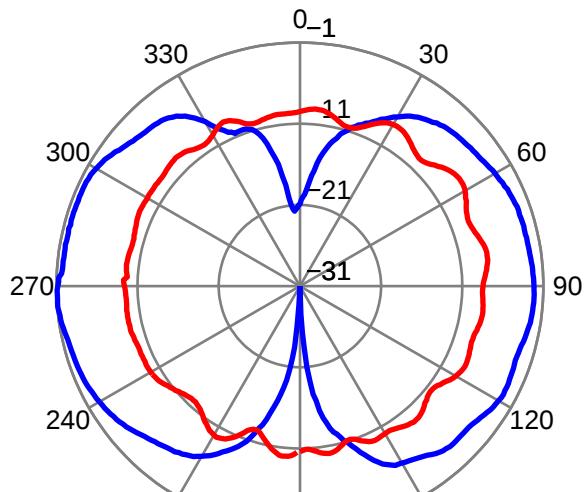
Height....."1.5 m"

Span...N/A

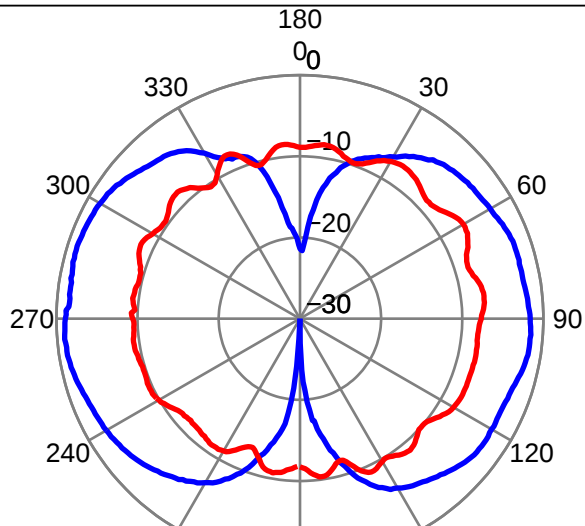
Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT HORIZONTAL"

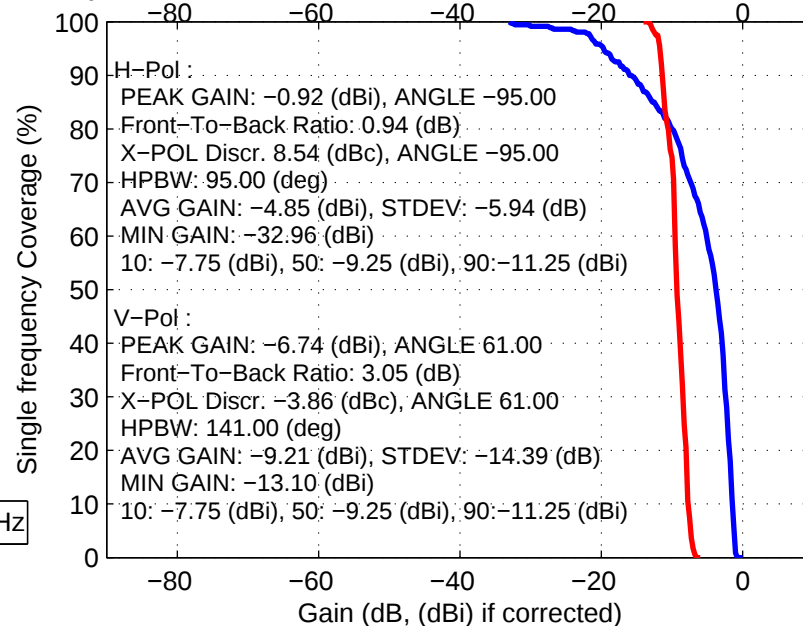
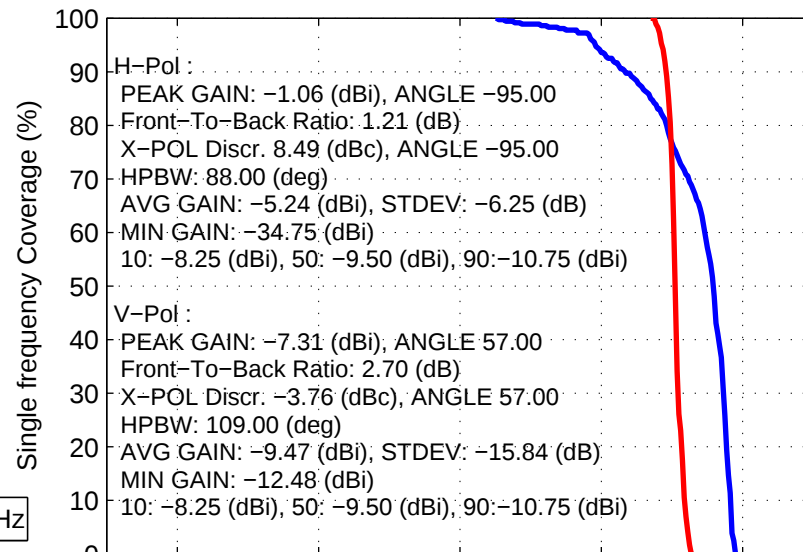
Comments....."ELEVATION CUT ACROSS PLANE OF PCB, THETA = -179 TO 180 DEG. CUT PERP TO FEED AT PHI = 90 DEG, THROUGH NARROW DIMENSION"



— H-Pol Frequency: 5600.000 MHz — V-Pol Frequency: 5600.000 MHz



— H-Pol Frequency: 5650.000 MHz — V-Pol Frequency: 5650.000 MHz



Pattern File.....2013-11-26-16-0- 8_ELEVATION_CUT_2_003.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9- 6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

Mfr./Model....."ABG"

ID Number....."SAMPLE A"

Antenna Type..."TOPHAT MONOPOLE"

RF Detector....Vector Network Analyzer

Mfr./Model.....Rohde & Schwarz ZVB-20

Resolution BW.. 2.000000 kHz

Detector Function..."SPARAMS (V)"

Span...N/A

RF Source.....Vector Network Analyzer

RF Level.....10.000000 dBm

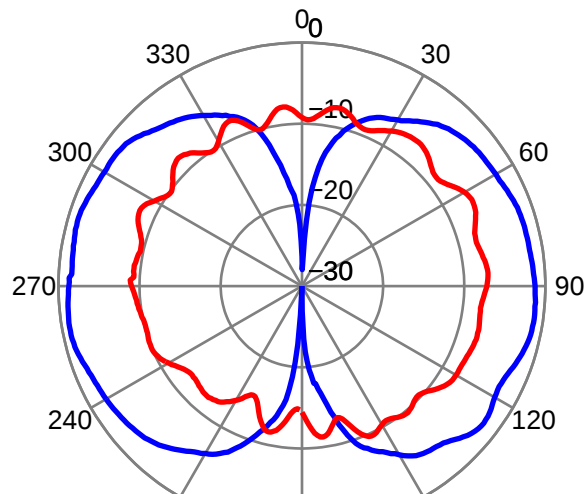
Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Height....."1.5 m"

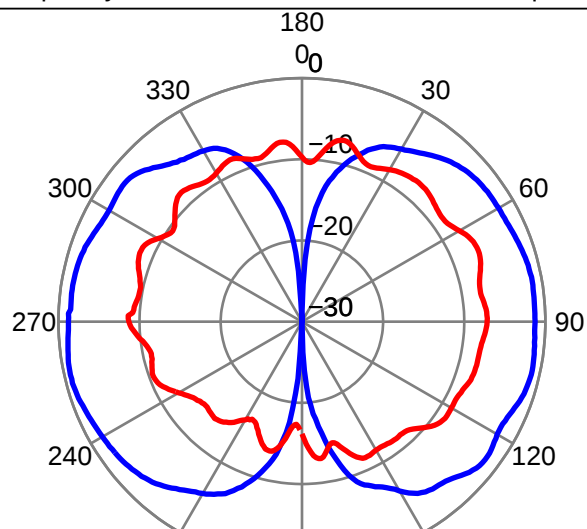
Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT HORIZONTAL"

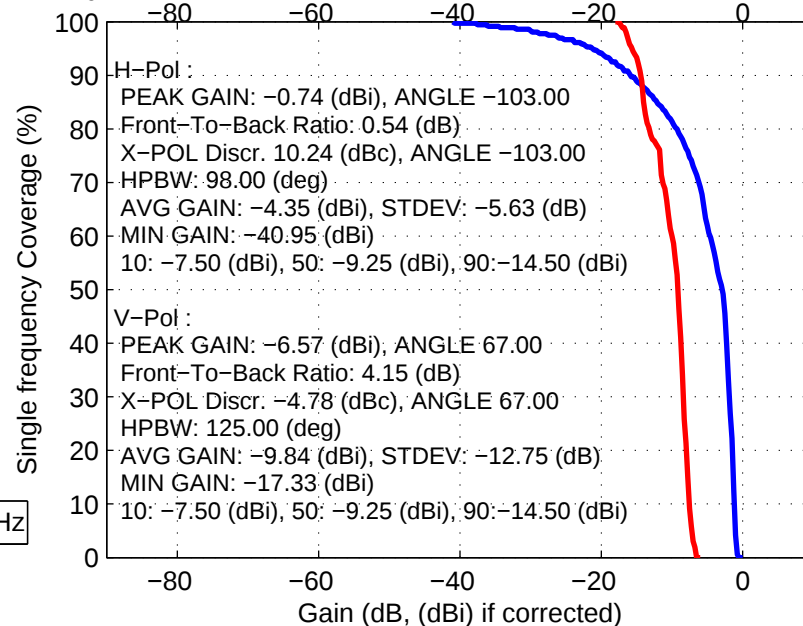
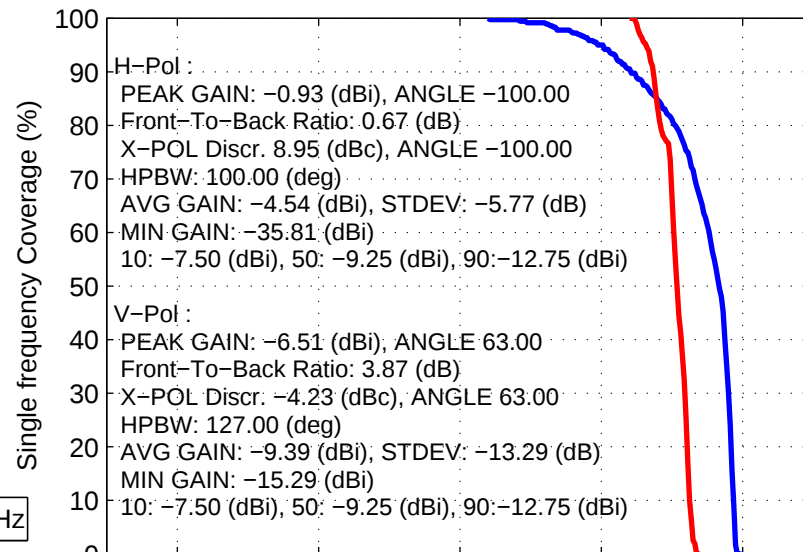
Comments....."ELEVATION CUT ACROSS PLANE OF PCB, THETA = -179 TO 180 DEG. CUT PERP TO FEED AT PHI = 90 DEG, THROUGH NARROW DIMENSION"



— H-Pol Frequency: 5700.000 MHz — V-Pol Frequency: 5700.000 MHz



— H-Pol Frequency: 5750.000 MHz — V-Pol Frequency: 5750.000 MHz



Pattern File.....2013-11-26-16-0- 8_ELEVATION_CUT_2_003.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9- 6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

RF Detector....Vector Network Analyzer

RF Source.....Vector Network Analyzer

Mfr./Model....."ABG"

Mfr./Model.....Rohde & Schwarz ZVB-20

RF Level.....10.000000 dBm

ID Number....."SAMPLE A"

Resolution BW.. 2.000000 kHz

Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Antenna Type..."TOPHAT MONOPOLE"

Detector Function..."SPARAMS (V)"

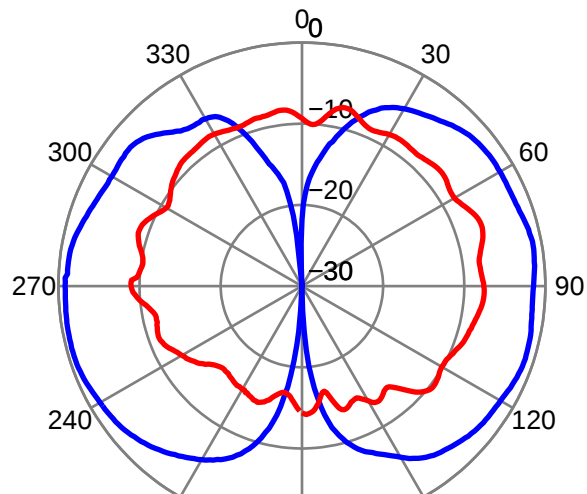
Height....."1.5 m"

Span...N/A

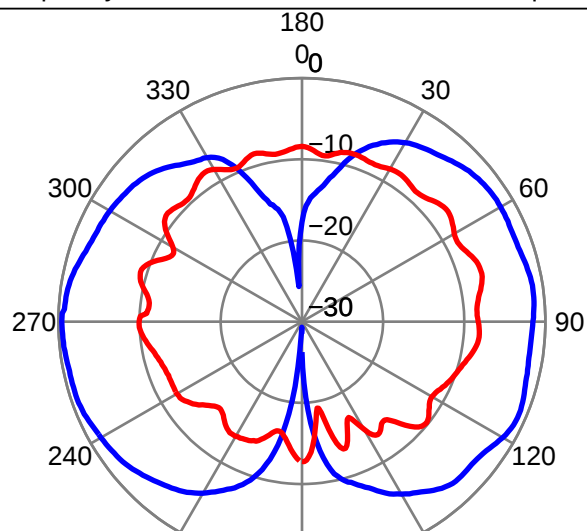
Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT HORIZONTAL"

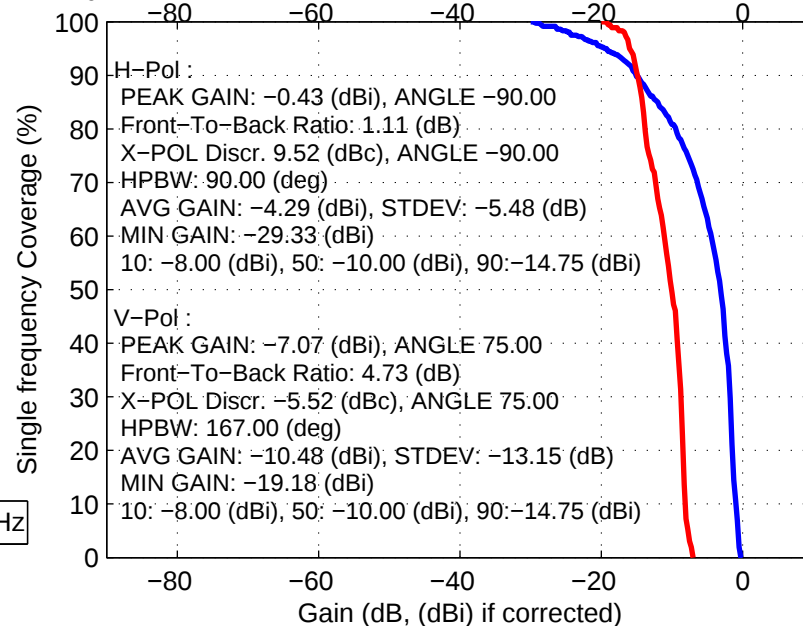
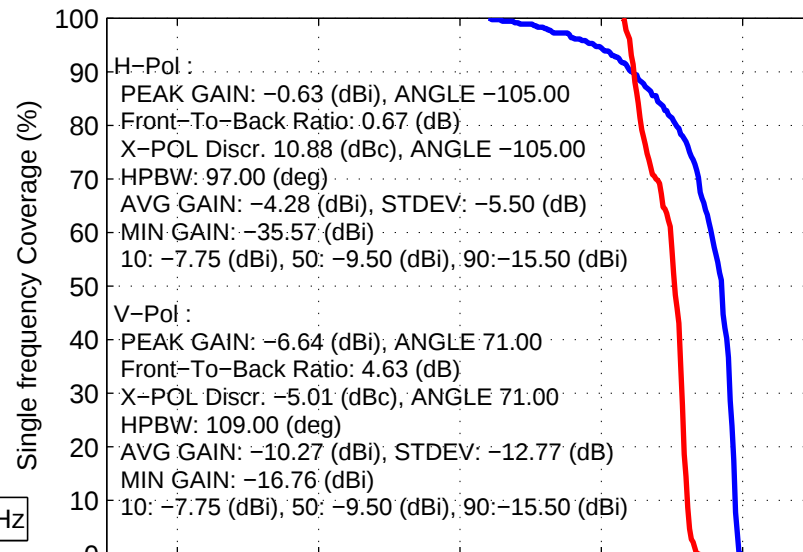
Comments....."ELEVATION CUT ACROSS PLANE OF PCB, THETA = -179 TO 180 DEG. CUT PERP TO FEED AT PHI = 90 DEG, THROUGH NARROW DIMENSION"



— H-Pol Frequency: 5800.000 MHz — V-Pol Frequency: 5800.000 MHz



— H-Pol Frequency: 5850.000 MHz — V-Pol Frequency: 5850.000 MHz



Pattern File.....2013-11-26-16-0- 8_ELEVATION_CUT_2_003.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9- 6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

RF Detector....Vector Network Analyzer

RF Source.....Vector Network Analyzer

Mfr./Model....."ABG"

Mfr./Model.....Rohde & Schwarz ZVB-20

RF Level.....10.000000 dBm

ID Number....."SAMPLE A"

Resolution BW.. 2.000000 kHz

Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Antenna Type..."TOPHAT MONOPOLE"

Detector Function..."SPARAMS (V)"

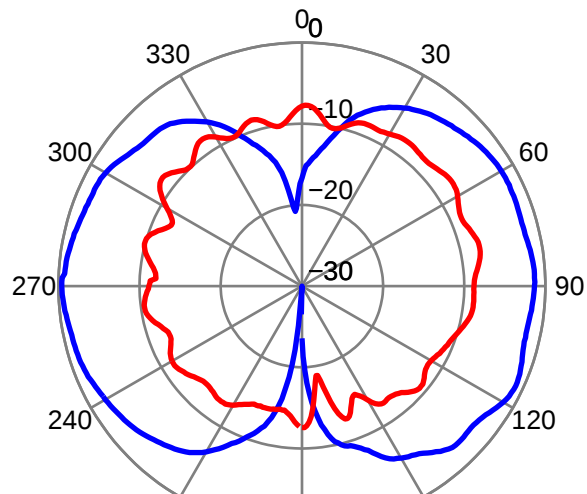
Height....."1.5 m"

Span...N/A

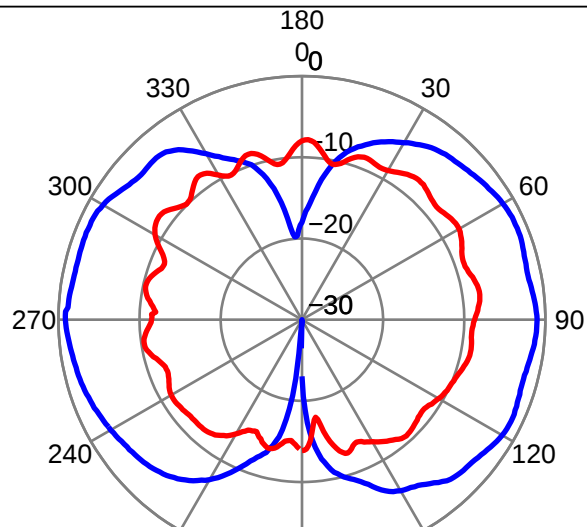
Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT HORIZONTAL"

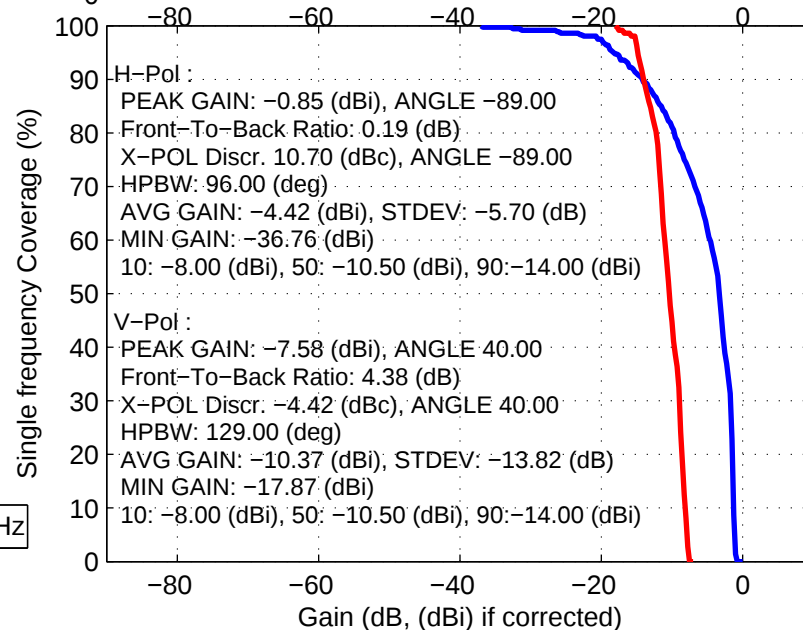
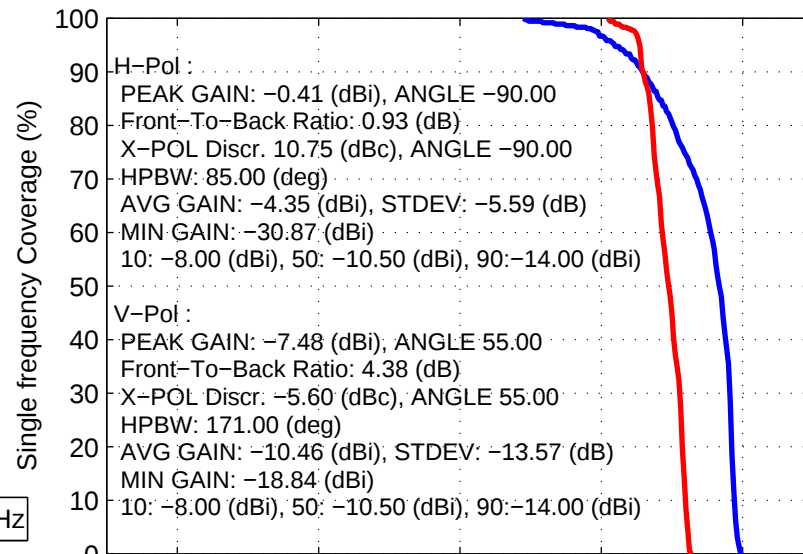
Comments....."ELEVATION CUT ACROSS PLANE OF PCB, THETA = -179 TO 180 DEG. CUT PERP TO FEED AT PHI = 90 DEG, THROUGH NARROW DIMENSION"



— H-Pol Frequency: 5900.000 MHz — V-Pol Frequency: 5900.000 MHz



— H-Pol Frequency: 5950.000 MHz — V-Pol Frequency: 5950.000 MHz



Pattern File.....2013-11-26-16-0- 8_ELEVATION_CUT_2_003.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9- 6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

Mfr./Model....."ABG"

ID Number....."SAMPLE A"

Antenna Type..."TOPHAT MONOPOLE"

RF Detector....Vector Network Analyzer

Mfr./Model.....Rohde & Schwarz ZVB-20

Resolution BW.. 2.000000 kHz

Detector Function..."SPARAMS (V)"

Span...N/A

RF Source.....Vector Network Analyzer

RF Level.....10.000000 dBm

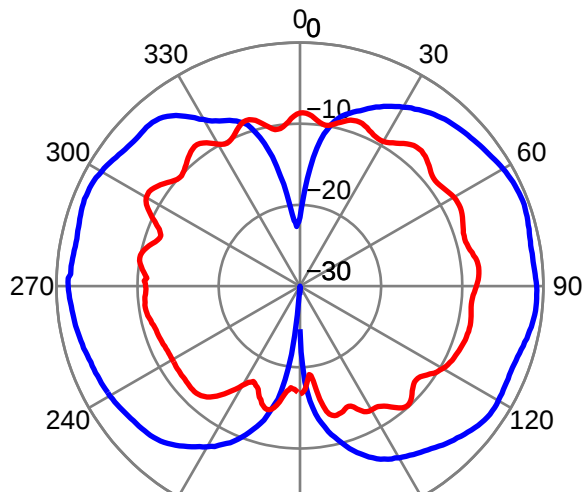
Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Height....."1.5 m"

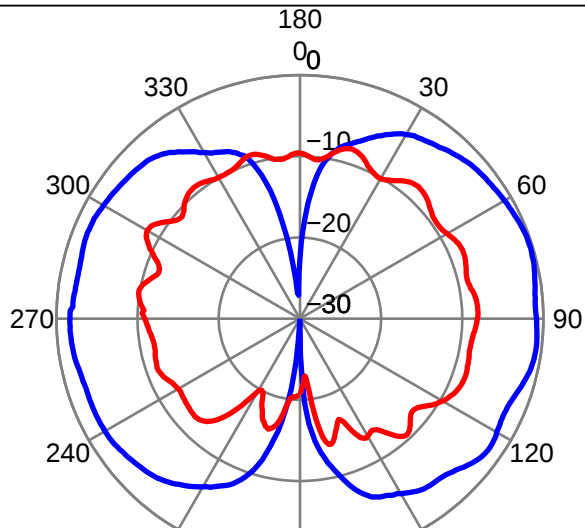
Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT HORIZONTAL"

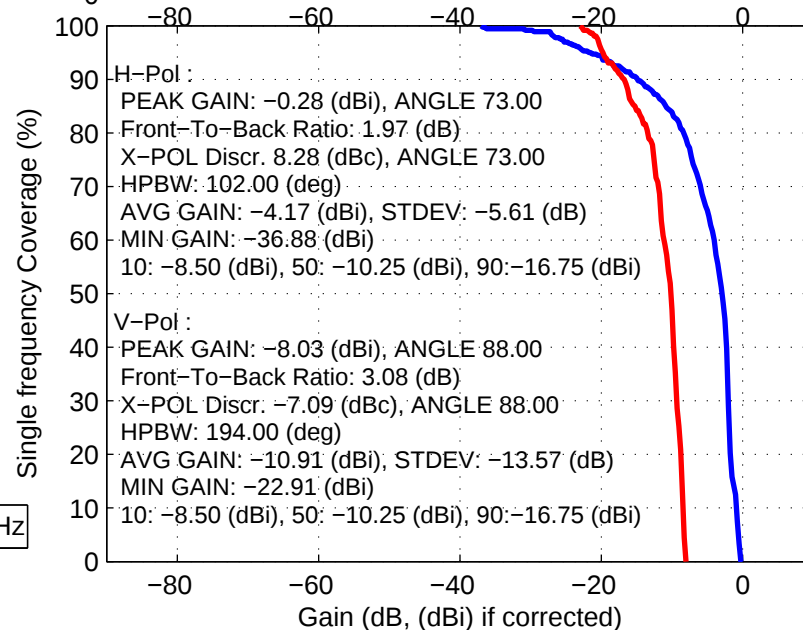
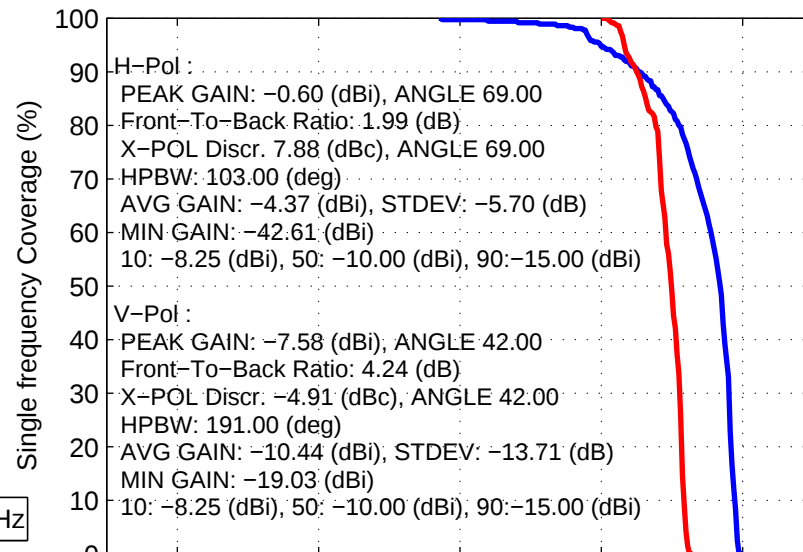
Comments....."ELEVATION CUT ACROSS PLANE OF PCB, THETA = -179 TO 180 DEG. CUT PERP TO FEED AT PHI = 90 DEG, THROUGH NARROW DIMENSION"



— H-Pol Frequency: 6000.000 MHz — V-Pol Frequency: 6000.000 MHz



— H-Pol Frequency: 6050.000 MHz — V-Pol Frequency: 6050.000 MHz



Pattern File.....2013-11-26-16-0- 8_ELEVATION_CUT_2_003.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9- 6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

RF Detector....Vector Network Analyzer

RF Source.....Vector Network Analyzer

Mfr./Model....."ABG"

Mfr./Model.....Rohde & Schwarz ZVB-20

RF Level.....10.000000 dBm

ID Number....."SAMPLE A"

Resolution BW.. 2.000000 kHz

Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Antenna Type..."TOPHAT MONOPOLE"

Detector Function..."SPARAMS (V)"

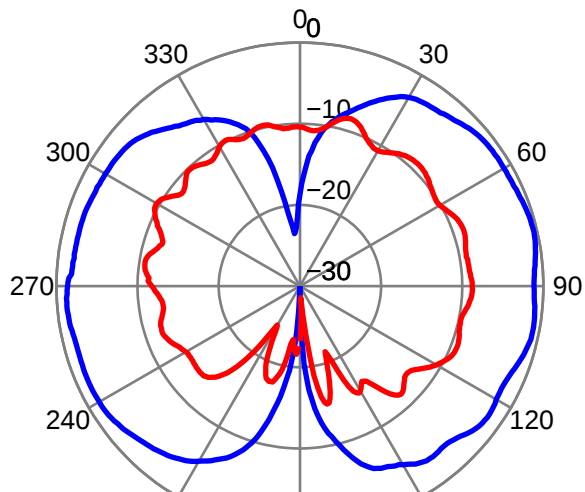
Height....."1.5 m"

Span...N/A

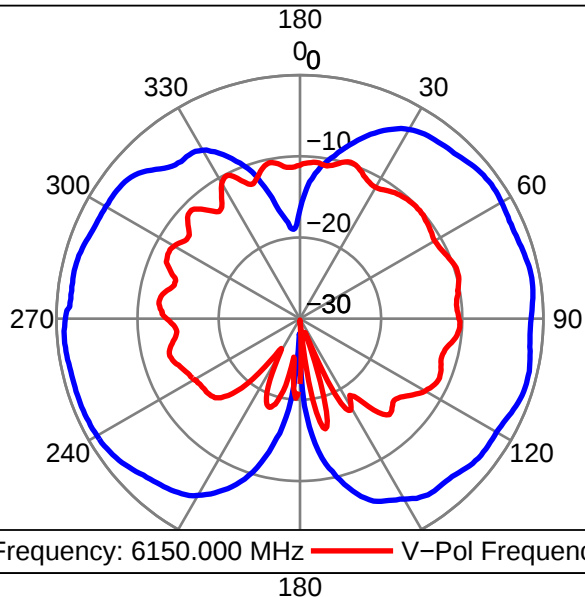
Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT HORIZONTAL"

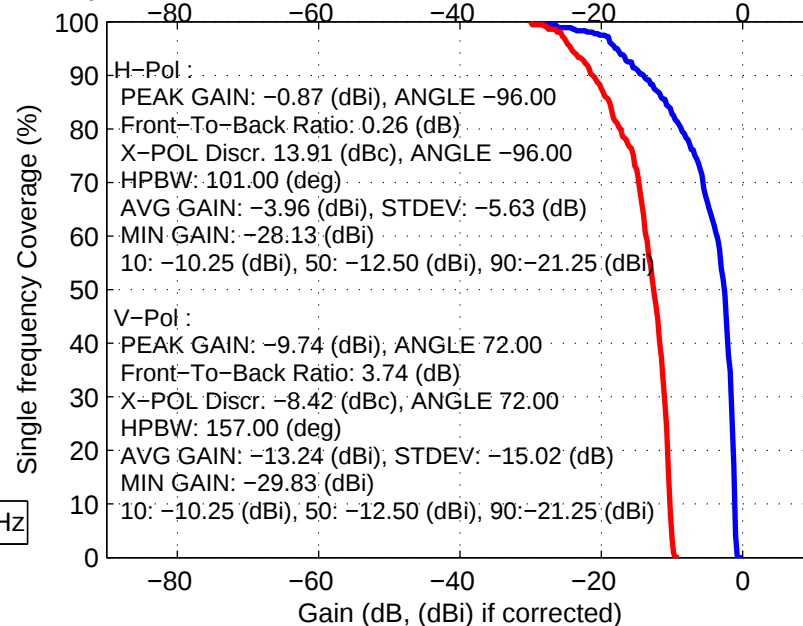
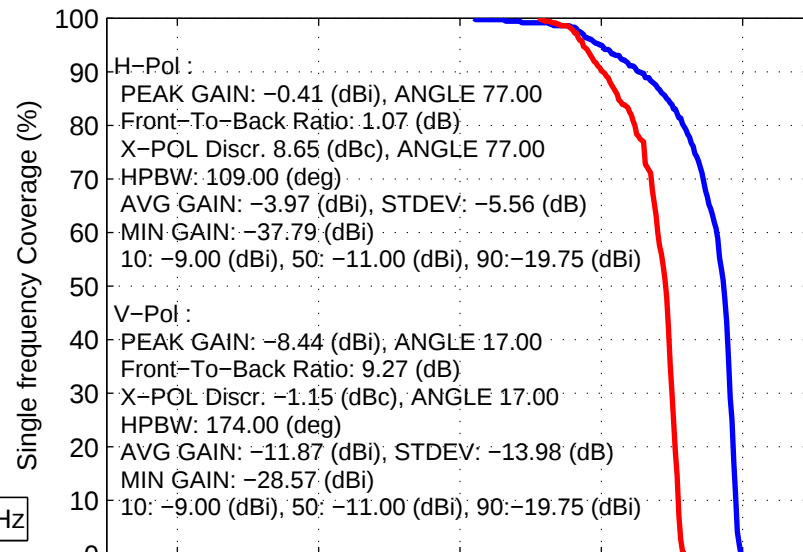
Comments....."ELEVATION CUT ACROSS PLANE OF PCB, THETA = -179 TO 180 DEG. CUT PERP TO FEED AT PHI = 90 DEG, THROUGH NARROW DIMENSION"



— H-Pol Frequency: 6100.000 MHz — V-Pol Frequency: 6100.000 MHz



— H-Pol Frequency: 6150.000 MHz — V-Pol Frequency: 6150.000 MHz



Pattern File.....2013-11-26-16-0- 8_ELEVATION_CUT_2_003.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9- 6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

Mfr./Model....."ABG"

ID Number....."SAMPLE A"

Antenna Type..."TOPHAT MONOPOLE"

RF Detector....Vector Network Analyzer

Mfr./Model.....Rohde & Schwarz ZVB-20

Resolution BW.. 2.000000 kHz

Detector Function..."SPARAMS (V)"

Span...N/A

RF Source.....Vector Network Analyzer

RF Level.....10.000000 dBm

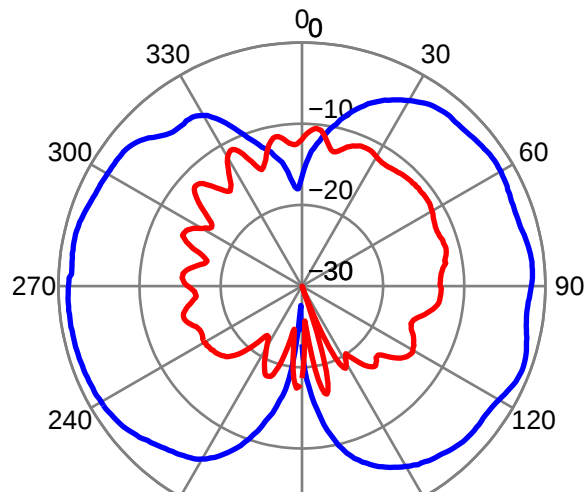
Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Height....."1.5 m"

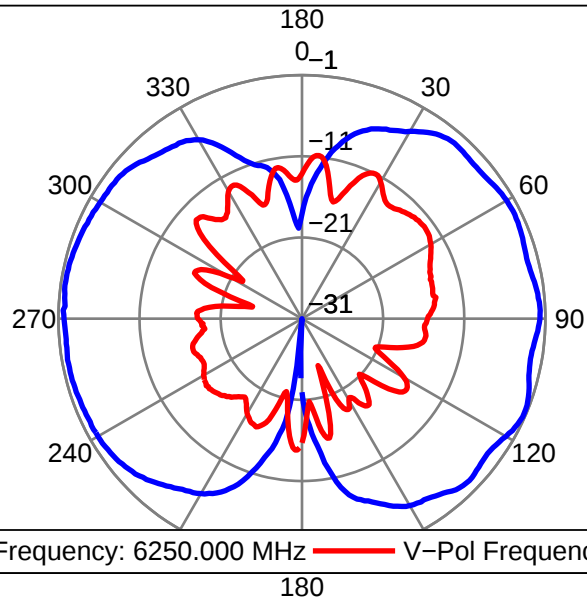
Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT HORIZONTAL"

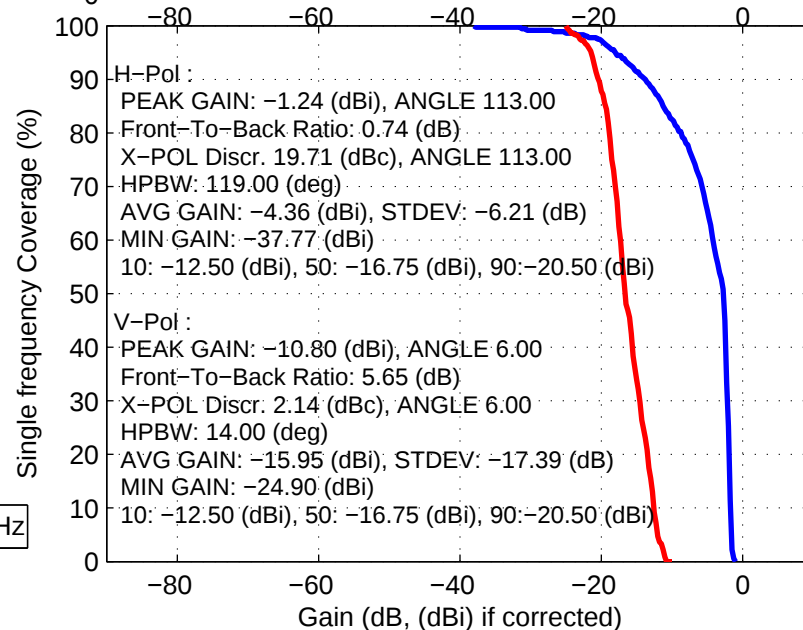
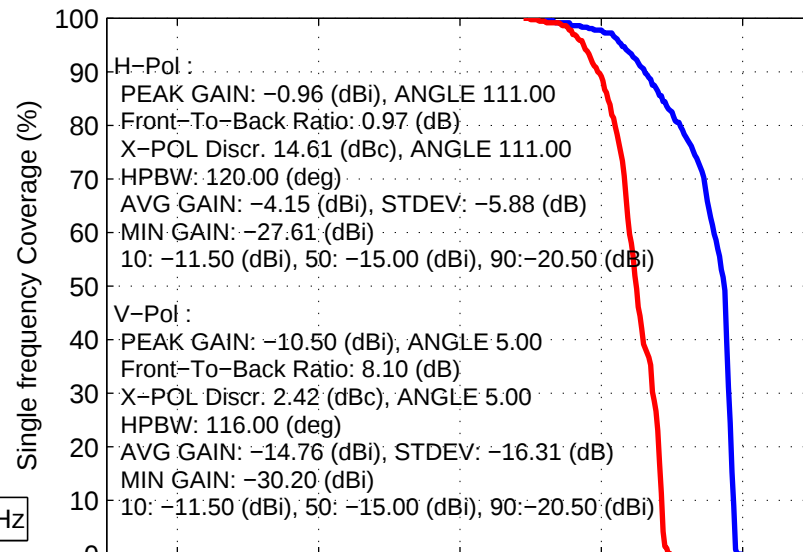
Comments....."ELEVATION CUT ACROSS PLANE OF PCB, THETA = -179 TO 180 DEG. CUT PERP TO FEED AT PHI = 90 DEG, THROUGH NARROW DIMENSION"



— H-Pol Frequency: 6200.000 MHz — V-Pol Frequency: 6200.000 MHz



— H-Pol Frequency: 6250.000 MHz — V-Pol Frequency: 6250.000 MHz



Pattern File.....2013-11-26-16-0- 8_ELEVATION_CUT_2_003.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9- 6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

Mfr./Model....."ABG"

ID Number....."SAMPLE A"

Antenna Type..."TOPHAT MONOPOLE"

RF Detector....Vector Network Analyzer

Mfr./Model.....Rohde & Schwarz ZVB-20

Resolution BW.. 2.000000 kHz

Detector Function..."SPARAMS (V)"

Span...N/A

RF Source.....Vector Network Analyzer

RF Level.....10.000000 dBm

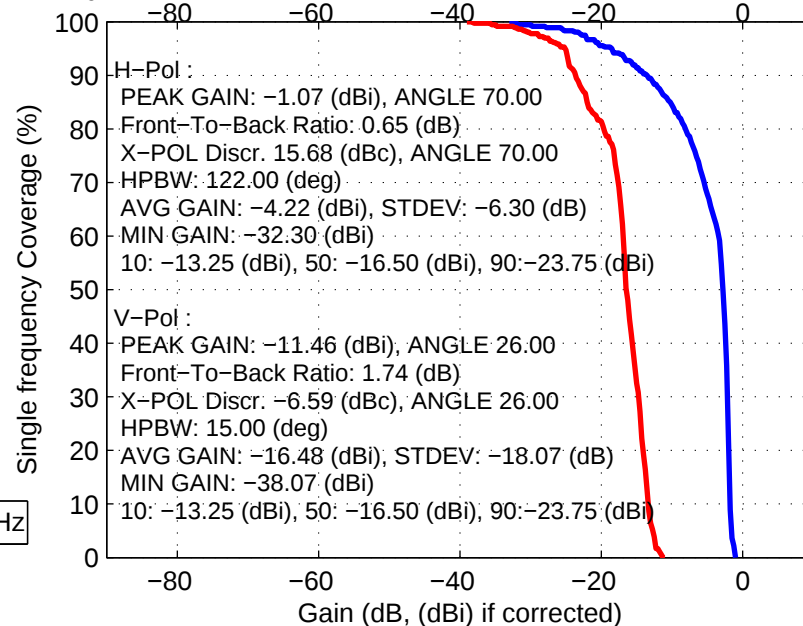
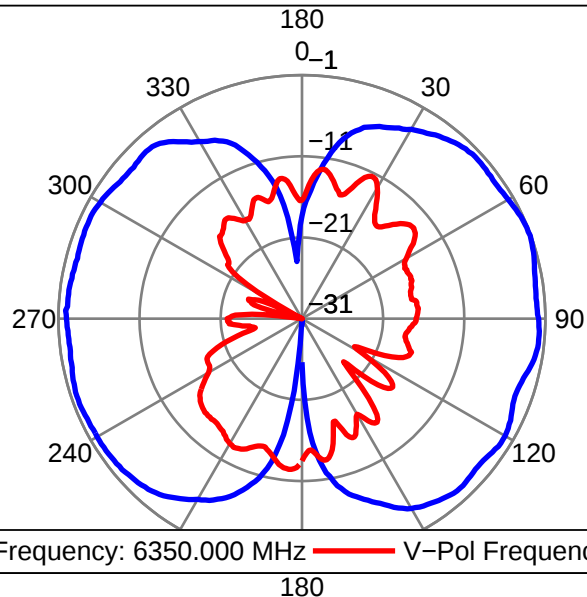
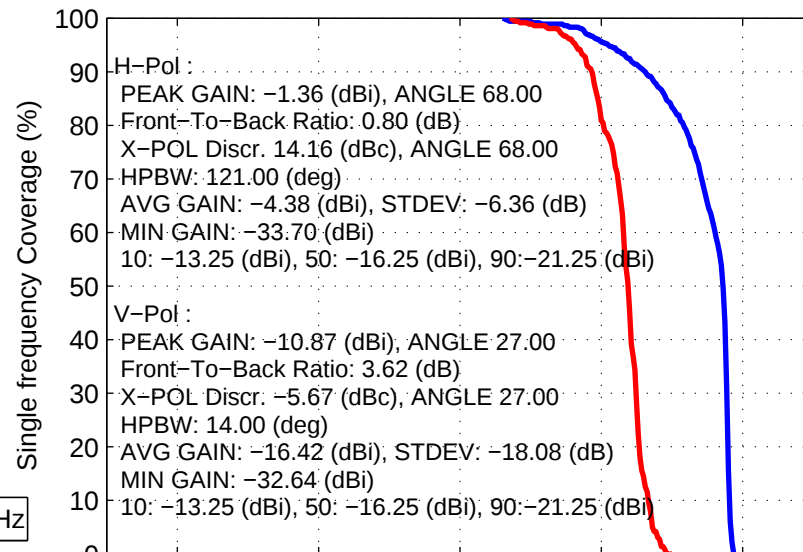
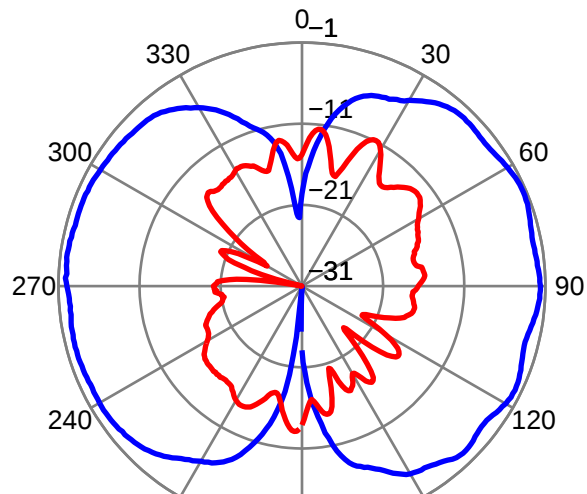
Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Height....."1.5 m"

Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT HORIZONTAL"

Comments....."ELEVATION CUT ACROSS PLANE OF PCB, THETA = -179 TO 180 DEG. CUT PERP TO FEED AT PHI = 90 DEG, THROUGH NARROW DIMENSION"



Pattern File.....2013-11-26-16-0- 8_ELEVATION_CUT_2_003.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9- 6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

Mfr./Model....."ABG"

ID Number....."SAMPLE A"

Antenna Type..."TOPHAT MONOPOLE"

RF Detector....Vector Network Analyzer

Mfr./Model.....Rohde & Schwarz ZVB-20

Resolution BW.. 2.000000 kHz

Detector Function..."SPARAMS (V)"

Span...N/A

RF Source.....Vector Network Analyzer

RF Level.....10.000000 dBm

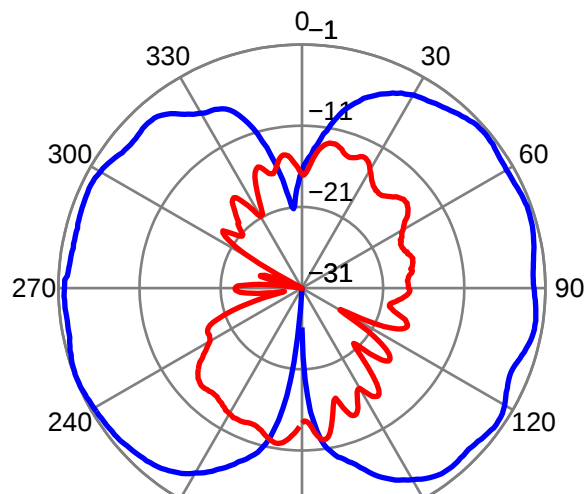
Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Height....."1.5 m"

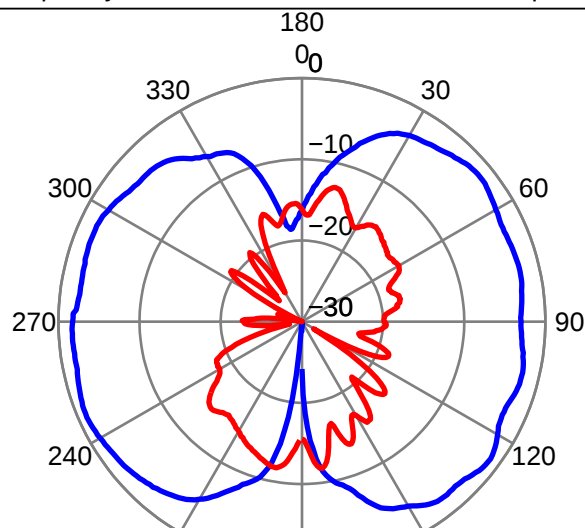
Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT HORIZONTAL"

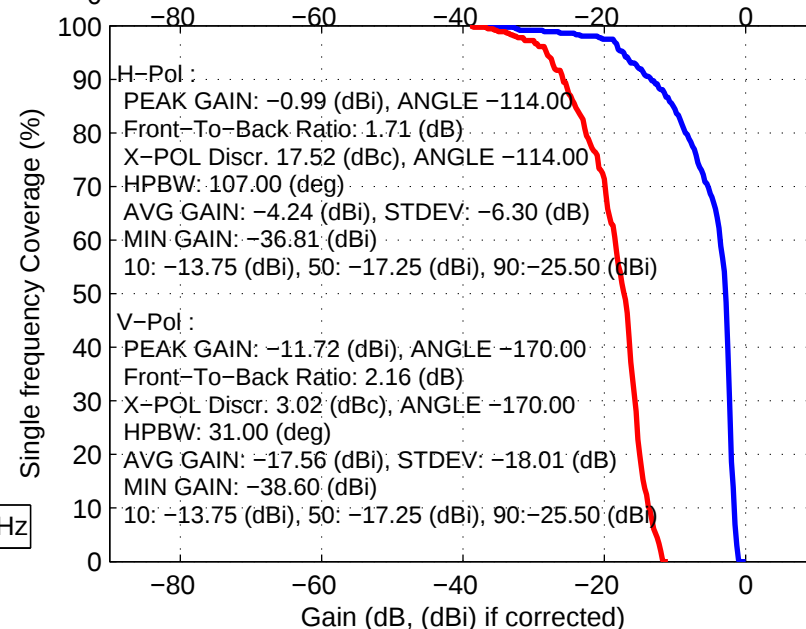
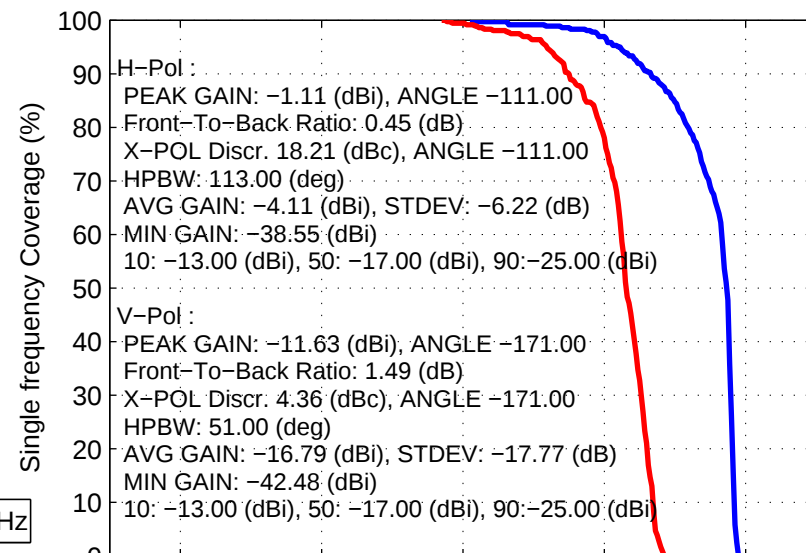
Comments....."ELEVATION CUT ACROSS PLANE OF PCB, THETA = -179 TO 180 DEG. CUT PERP TO FEED AT PHI = 90 DEG, THROUGH NARROW DIMENSION"



— H-Pol Frequency: 6400.000 MHz — V-Pol Frequency: 6400.000 MHz



— H-Pol Frequency: 6450.000 MHz — V-Pol Frequency: 6450.000 MHz



Pattern File.....2013-11-26-16-0- 8_ELEVATION_CUT_2_003.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9- 6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

Mfr./Model....."ABG"

ID Number....."SAMPLE A"

Antenna Type..."TOPHAT MONOPOLE"

RF Detector....Vector Network Analyzer

Mfr./Model.....Rohde & Schwarz ZVB-20

Resolution BW.. 2.000000 kHz

Detector Function..."SPARAMS (V)"

Span...N/A

RF Source.....Vector Network Analyzer

RF Level.....10.000000 dBm

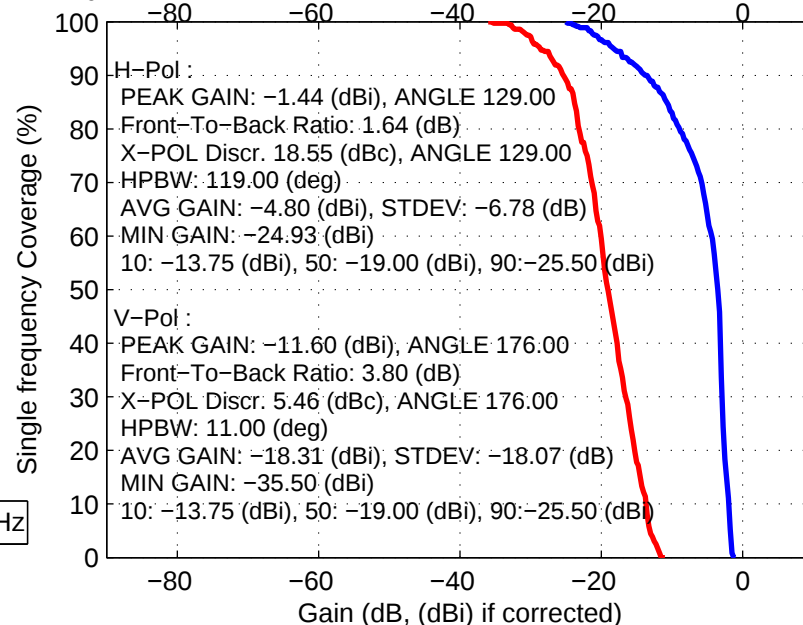
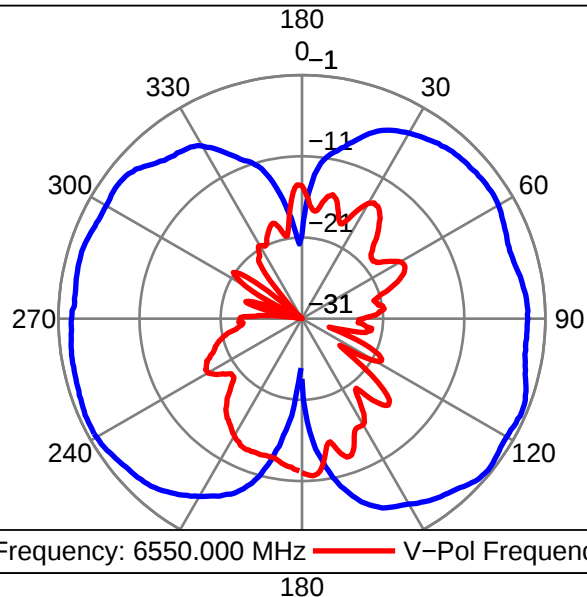
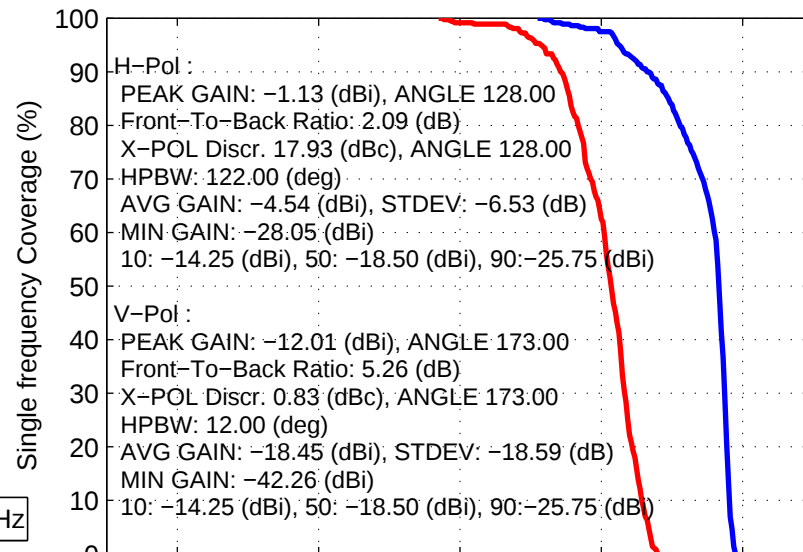
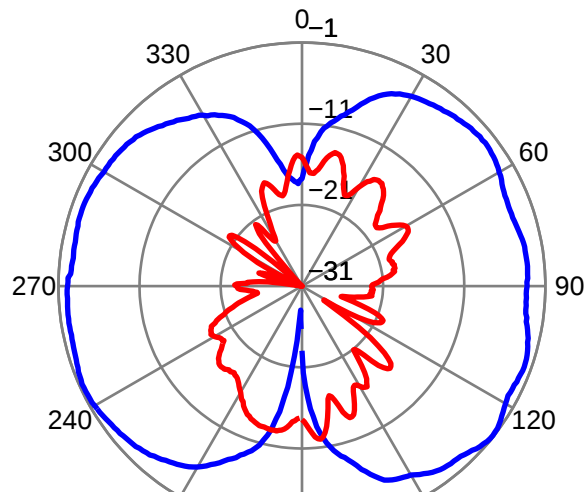
Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Height....."1.5 m"

Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT HORIZONTAL"

Comments....."ELEVATION CUT ACROSS PLANE OF PCB, THETA = -179 TO 180 DEG. CUT PERP TO FEED AT PHI = 90 DEG, THROUGH NARROW DIMENSION"



Pattern File.....2013-11-26-16-0- 8_ELEVATION_CUT_2_003.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9- 6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

Mfr./Model....."ABG"

ID Number....."SAMPLE A"

Antenna Type..."TOPHAT MONOPOLE"

RF Detector....Vector Network Analyzer

Mfr./Model.....Rohde & Schwarz ZVB-20

Resolution BW.. 2.000000 kHz

Detector Function..."SPARAMS (V)"

Span...N/A

RF Source.....Vector Network Analyzer

RF Level.....10.000000 dBm

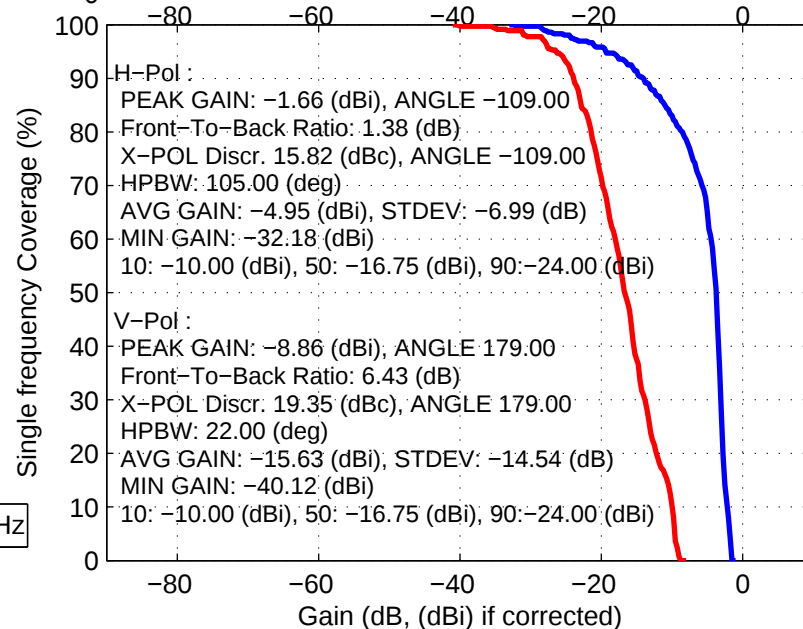
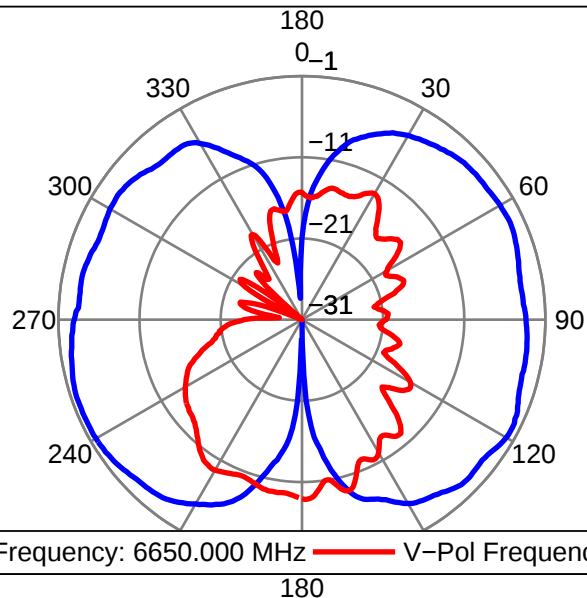
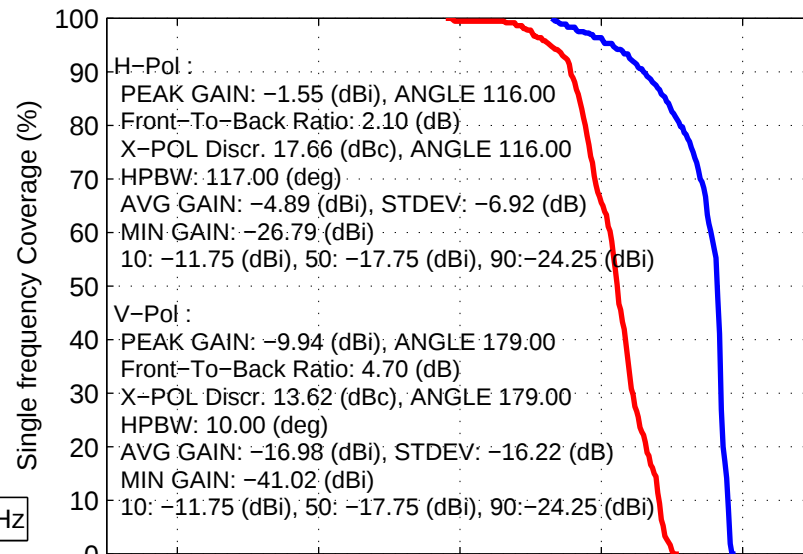
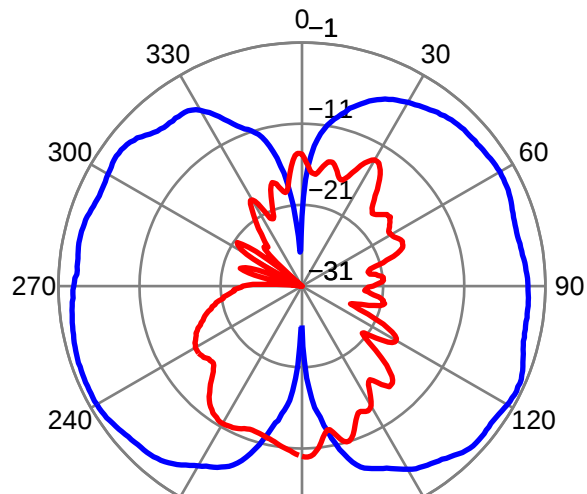
Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Height....."1.5 m"

Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT HORIZONTAL"

Comments....."ELEVATION CUT ACROSS PLANE OF PCB, THETA = -179 TO 180 DEG. CUT PERP TO FEED AT PHI = 90 DEG, THROUGH NARROW DIMENSION"



Pattern File.....2013-11-26-16-0- 8_ELEVATION_CUT_2_003.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9- 6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

Mfr./Model....."ABG"

ID Number....."SAMPLE A"

Antenna Type..."TOPHAT MONOPOLE"

RF Detector....Vector Network Analyzer

Mfr./Model.....Rohde & Schwarz ZVB-20

Resolution BW.. 2.000000 kHz

Detector Function..."SPARAMS (V)"

Span...N/A

RF Source.....Vector Network Analyzer

RF Level.....10.000000 dBm

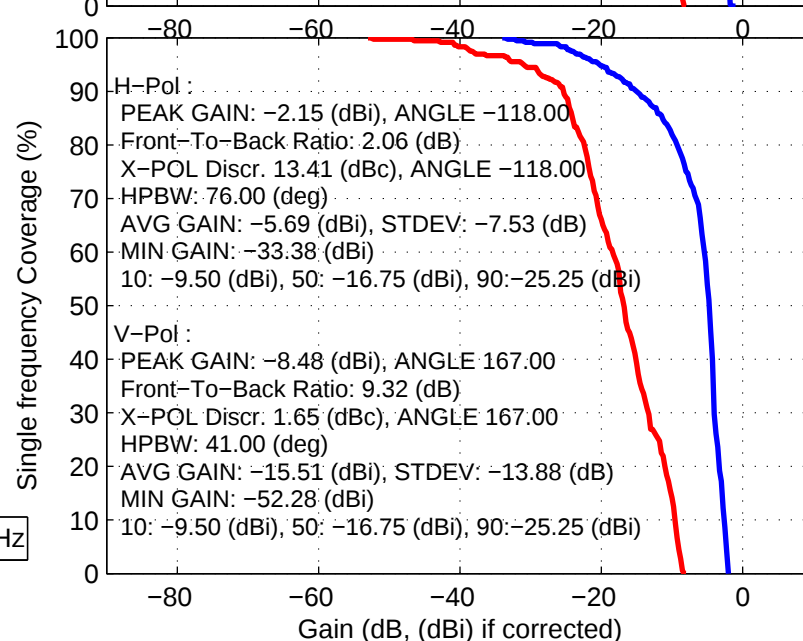
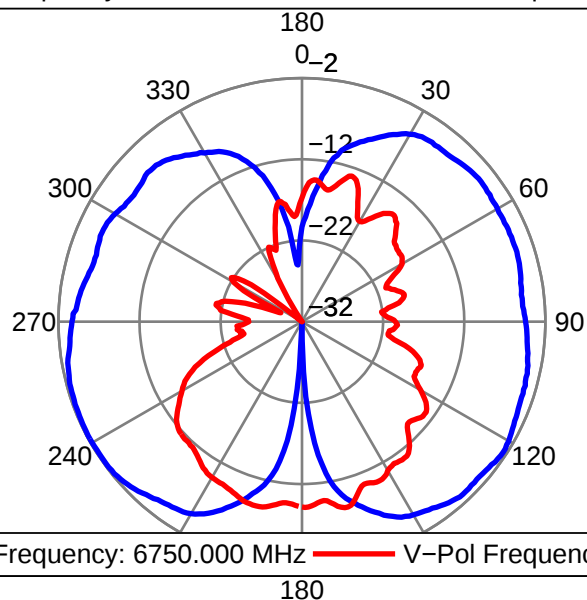
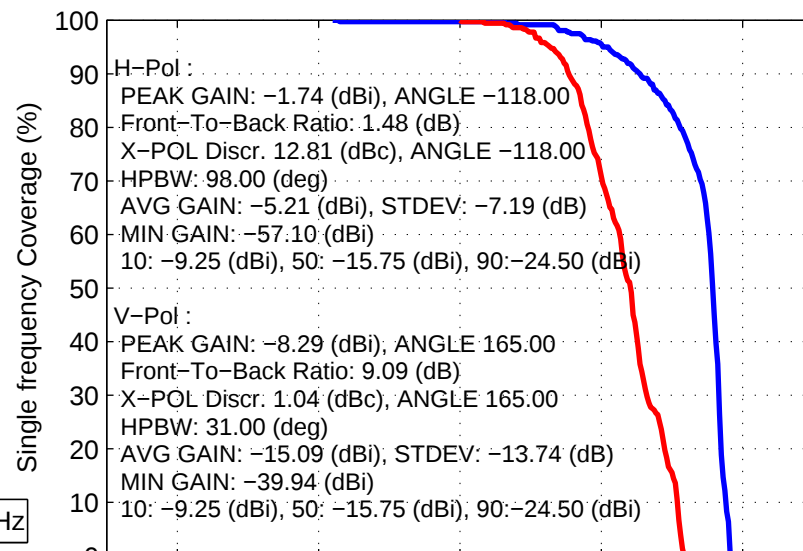
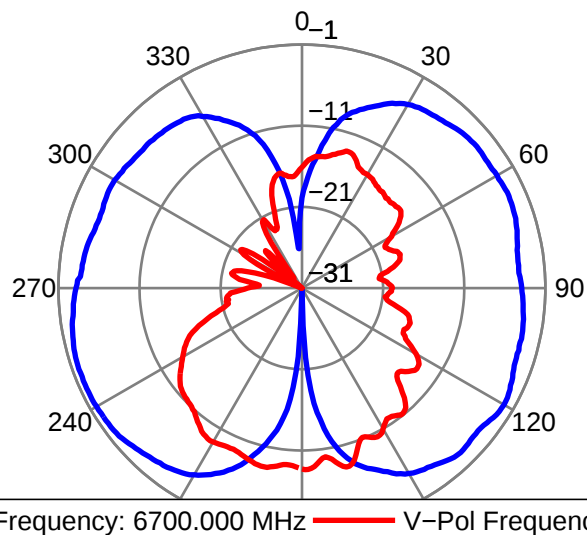
Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Height....."1.5 m"

Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT HORIZONTAL"

Comments....."ELEVATION CUT ACROSS PLANE OF PCB, THETA = -179 TO 180 DEG. CUT PERP TO FEED AT PHI = 90 DEG, THROUGH NARROW DIMENSION"



Pattern File.....2013-11-26-16-0- 8_ELEVATION_CUT_2_003.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9- 6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

Mfr./Model....."ABG"

ID Number....."SAMPLE A"

Antenna Type..."TOPHAT MONOPOLE"

RF Detector....Vector Network Analyzer

Mfr./Model.....Rohde & Schwarz ZVB-20

Resolution BW.. 2.000000 kHz

Detector Function..."SPARAMS (V)"

Span...N/A

RF Source.....Vector Network Analyzer

RF Level.....10.000000 dBm

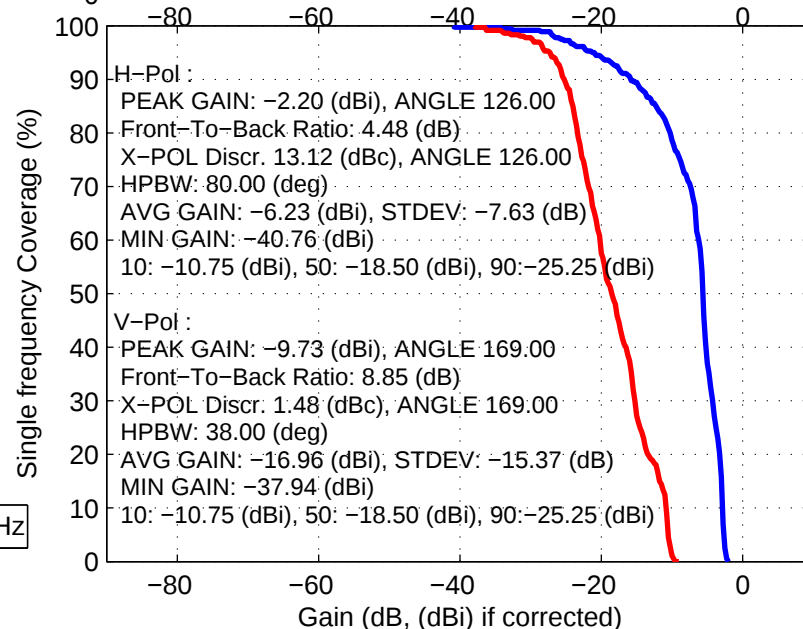
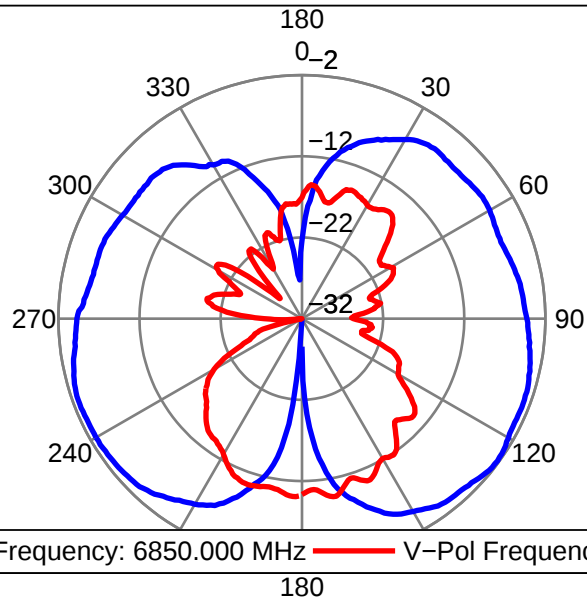
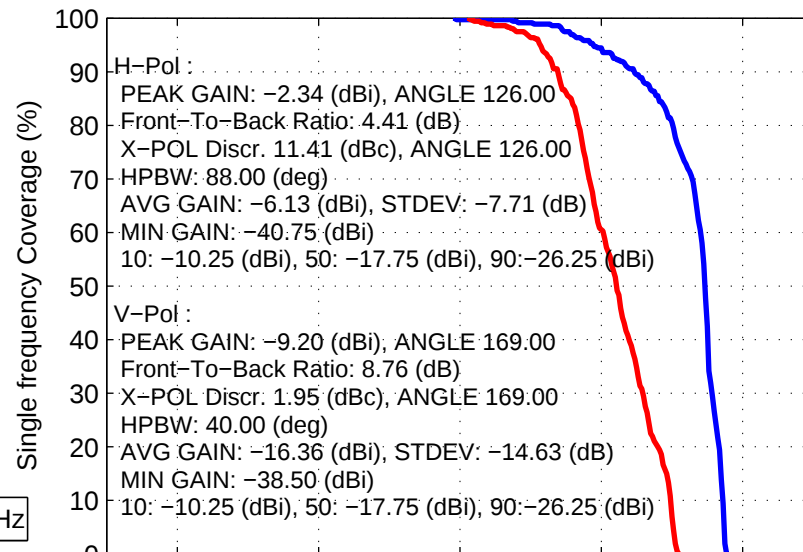
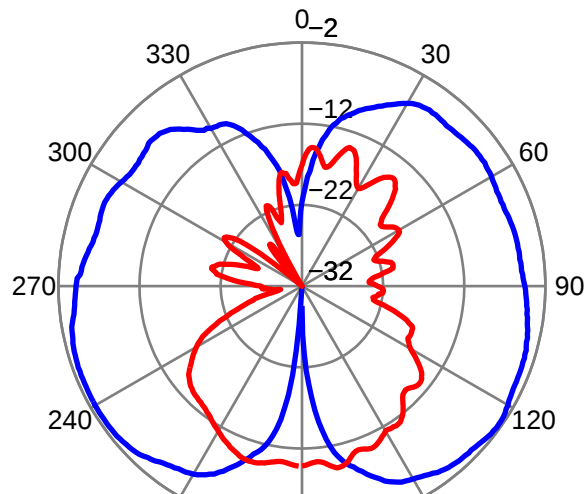
Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Height....."1.5 m"

Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT HORIZONTAL"

Comments....."ELEVATION CUT ACROSS PLANE OF PCB, THETA = -179 TO 180 DEG. CUT PERP TO FEED AT PHI = 90 DEG, THROUGH NARROW DIMENSION"



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Unit Tested....."ABG TAG TRACK"

Mfr./Model....."ABG"

ID Number....."SAMPLE A"

Antenna Type..."TOPHAT MONOPOLE"

RF Detector....Vector Network Analyzer

Mfr./Model.....Rohde & Schwarz ZVB-20

Resolution BW.. 2.000000 kHz

Detector Function..."SPARAMS (V)"

Span...N/A

RF Source.....Vector Network Analyzer

RF Level.....10.000000 dBm

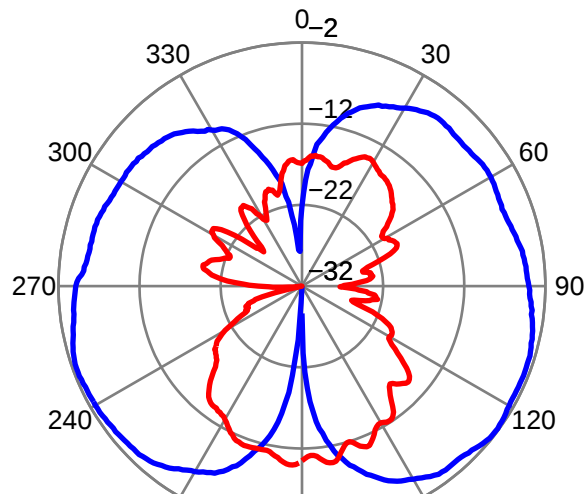
Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Height....."1.5 m"

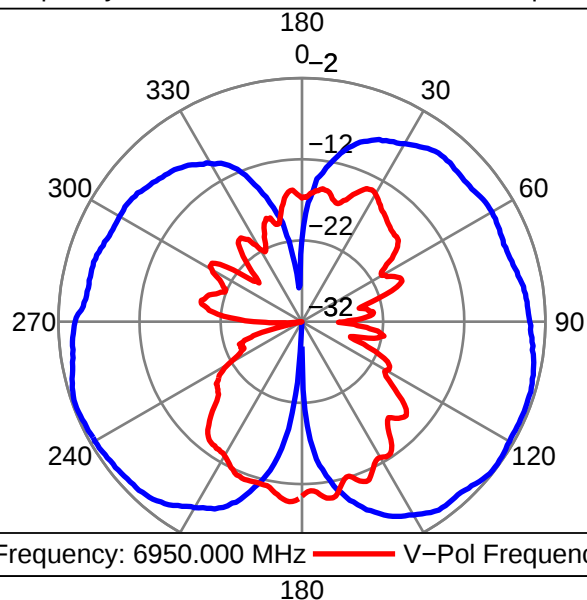
Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT HORIZONTAL"

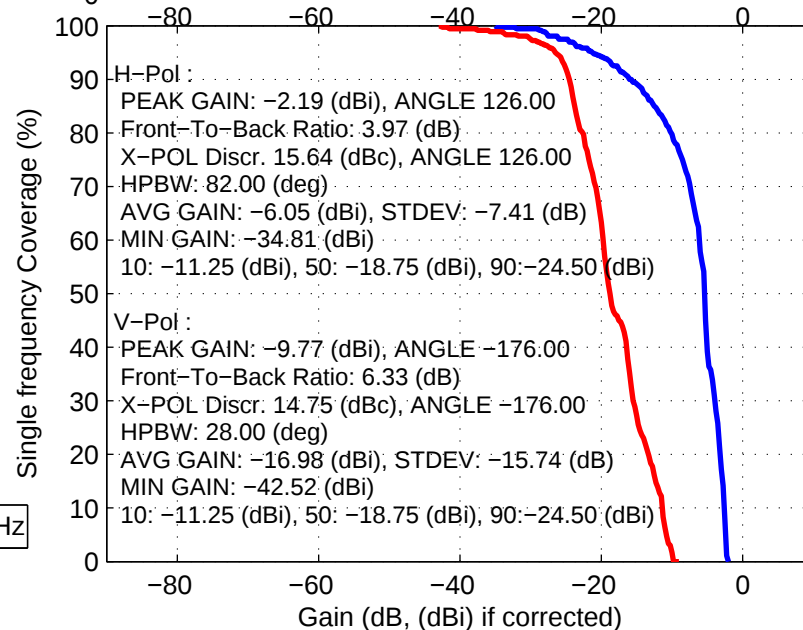
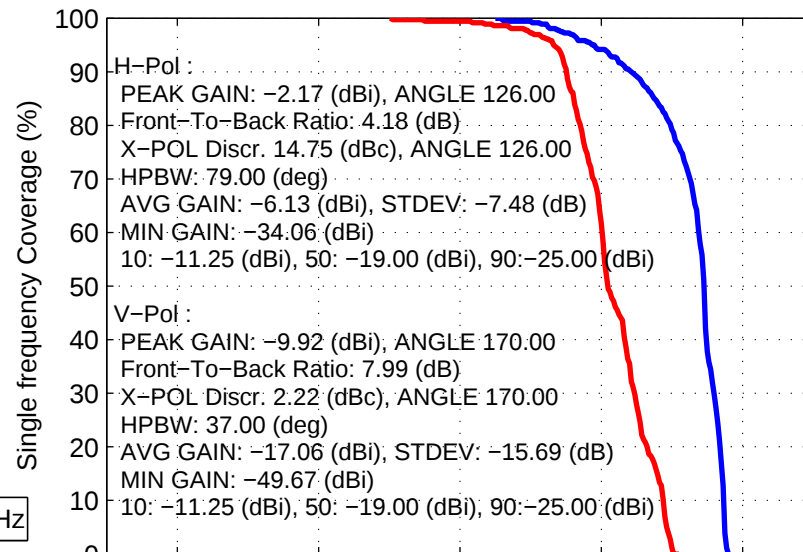
Comments....."ELEVATION CUT ACROSS PLANE OF PCB, THETA = -179 TO 180 DEG. CUT PERP TO FEED AT PHI = 90 DEG, THROUGH NARROW DIMENSION"



— H-Pol Frequency: 6900.000 MHz — V-Pol Frequency: 6900.000 MHz



— H-Pol Frequency: 6950.000 MHz — V-Pol Frequency: 6950.000 MHz



Pattern File.....2013-11-26-16-0- 8_ELEVATION_CUT_2_003.mat

CAL Files.....HPOL: 2013-11-26-16-9-56__XNBAND_CAL_HPOL_007.mat,VPOL: 2013-11-26-16-9- 6_XNBAND_CAL_VPOL_006.mat

Unit Tested....."ABG TAG TRACK"

Mfr./Model....."ABG"

ID Number....."SAMPLE A"

Antenna Type..."TOPHAT MONOPOLE"

RF Detector....Vector Network Analyzer

Mfr./Model.....Rohde & Schwarz ZVB-20

Resolution BW.. 2.000000 kHz

Detector Function..."SPARAMS (V)"

Span...N/A

RF Source.....Vector Network Analyzer

RF Level.....10.000000 dBm

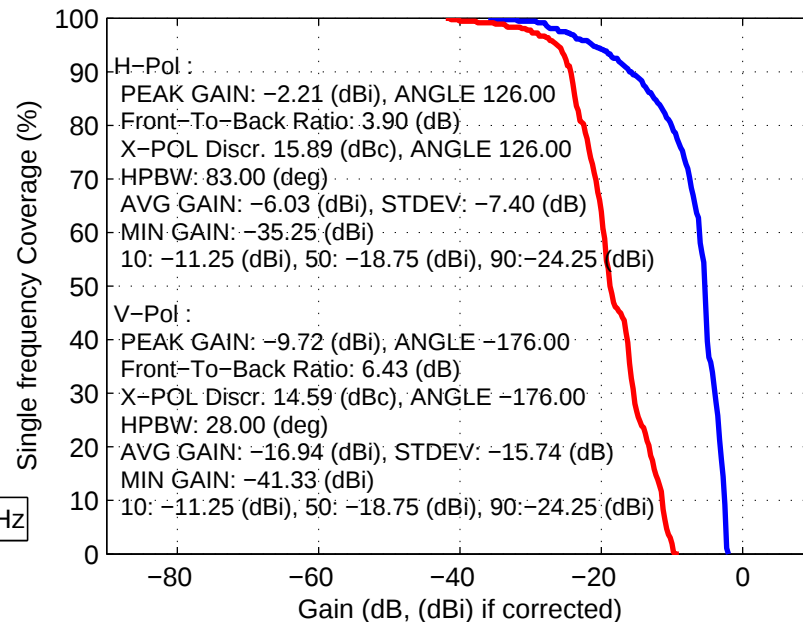
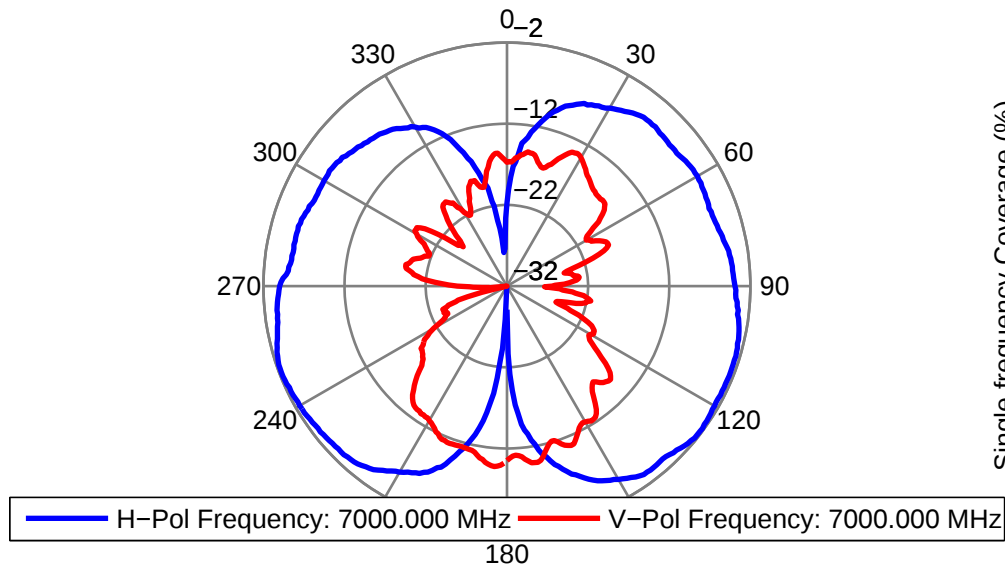
Transmit Ant..."CONDOR QUAD-RIDGE 2-18 GHZ"

Height....."1.5 m"

Range....."3 m"

Ant. Location...."CENTER OF AZIMUTH TURNTABLE, ANT HORIZONTAL"

Comments....."ELEVATION CUT ACROSS PLANE OF PCB, THETA = -179 TO 180 DEG. CUT PERP TO FEED AT PHI = 90 DEG, THROUGH NARROW DIMENSION"



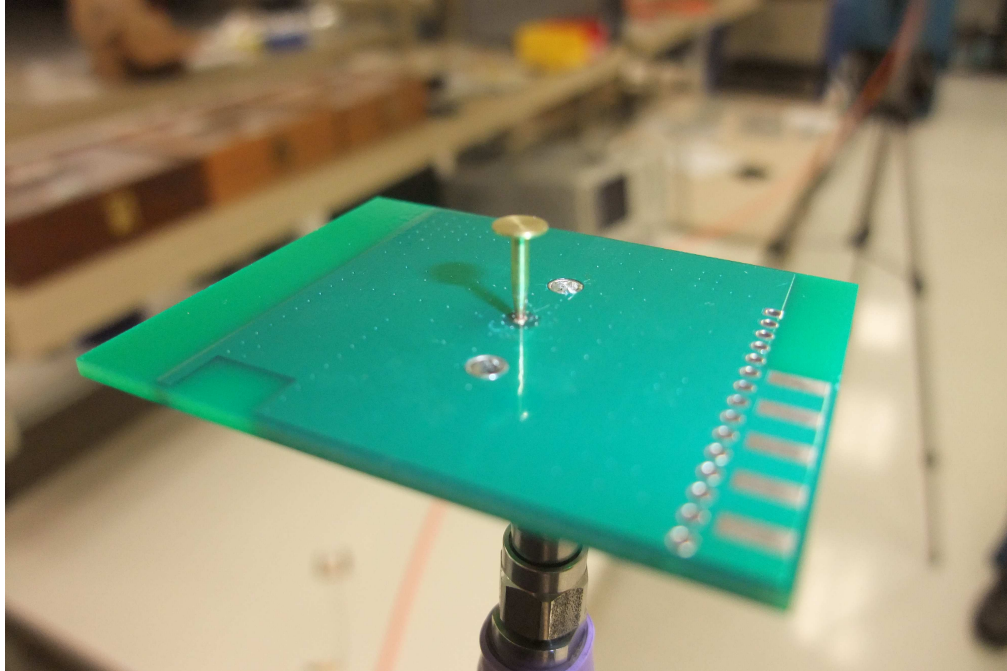


Figure 1. Prototype of the Top Hat Monopole.

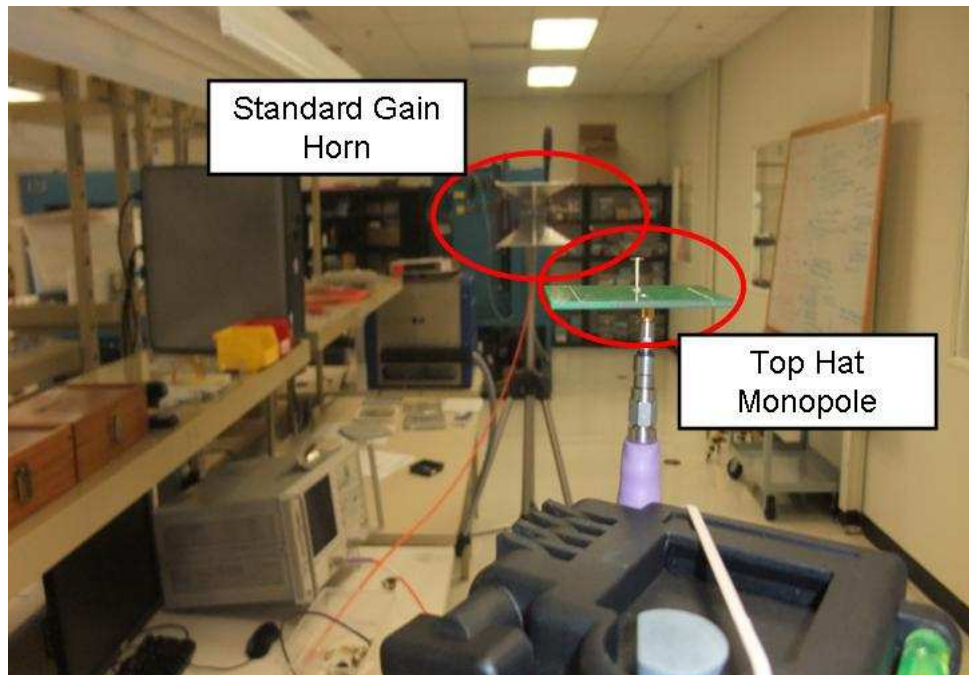


Figure 2. Test setup. S21 of a standard gain horn to a standard gain horn was measured. S21 of a standard gain horn to the Top Hat Monopole was measured. The antenna was tested in four different positions: 0, 90, 180, and 270 degrees in azimuth. The difference between the S21 measurements is a rough estimate of the antenna gain compared to the known gain of the horns.

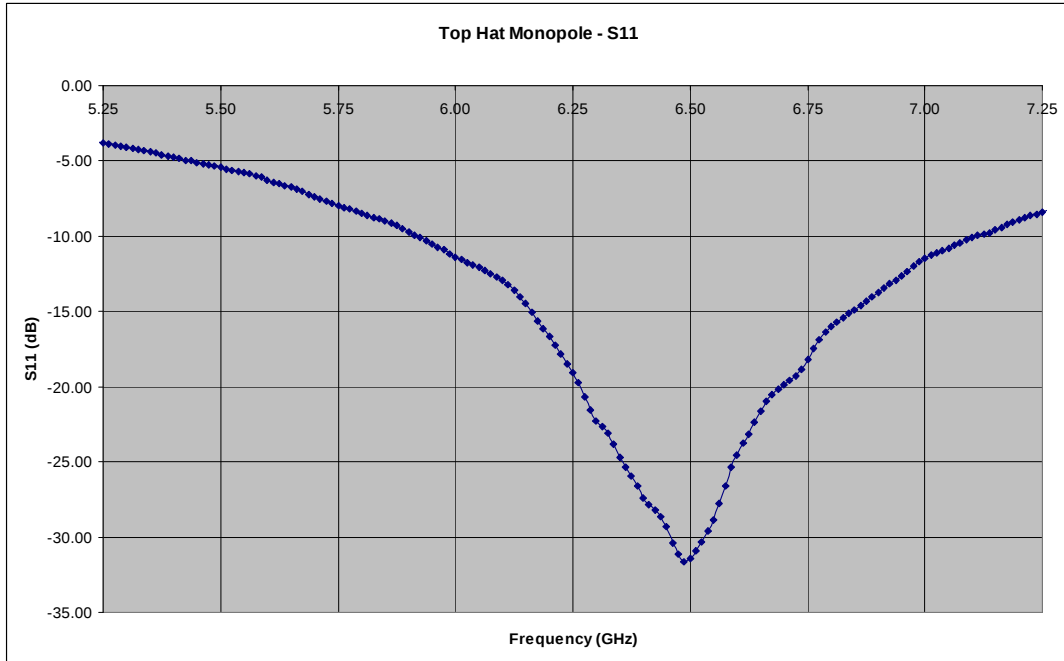


Figure 3. S11 of the Top Hat Monopole. Note that the monopole was tuned slightly higher than 6.25 GHz to attempt to account for the drop in frequency when a radome is installed.

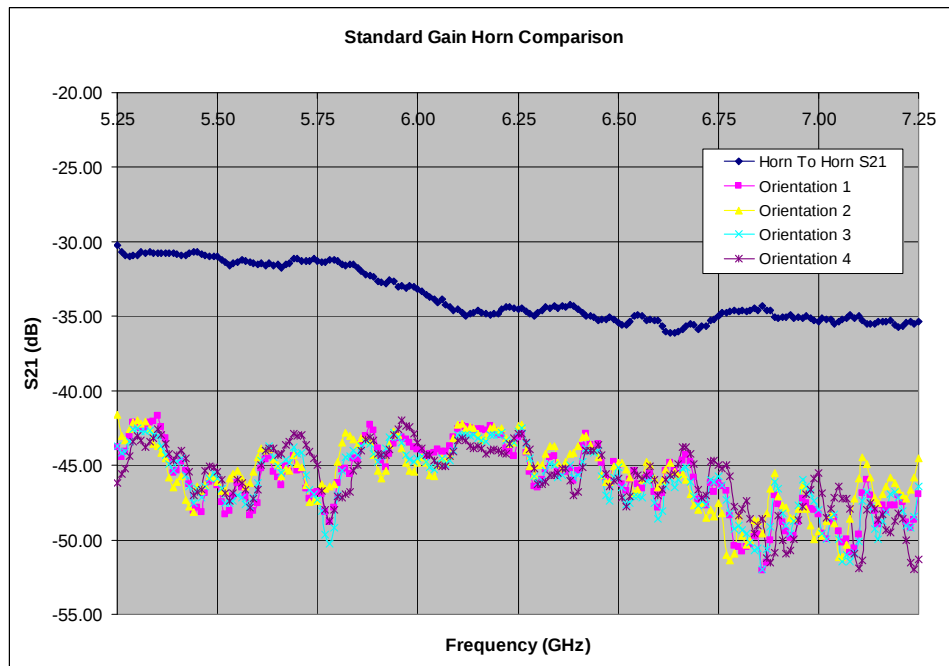


Figure 4. S21 measurements of the Top Hat Monopole compared to standard gain horns. At 6.25 GHz the gain of the horns is 9.85 dB; because S21 of the horn to monopole is ~9.0 dB below S21 of the standard gain horns, the gain of the monopole can be estimated at about 0-1 dB at the horizon.

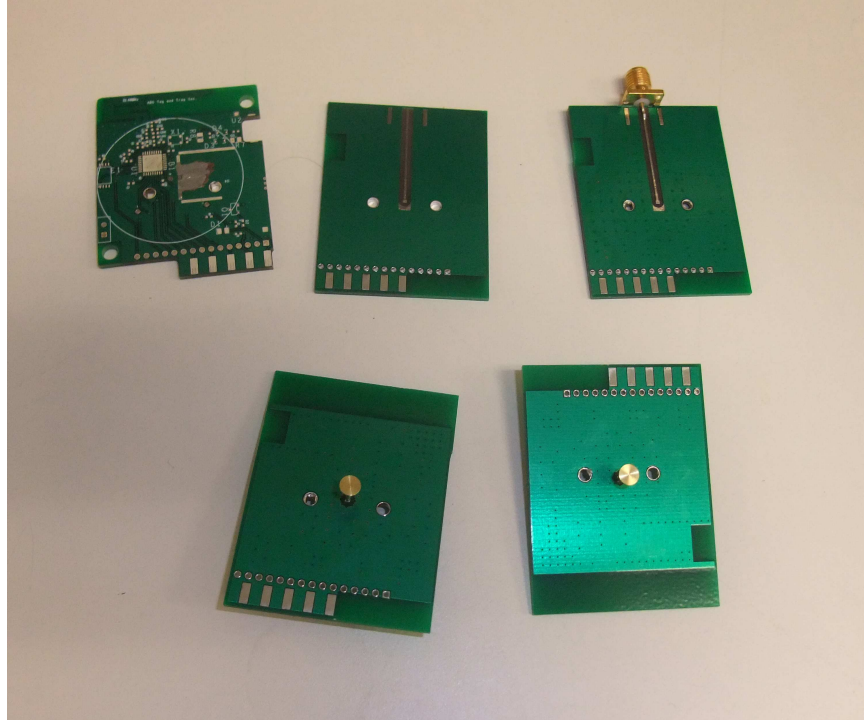


Figure 5. Prototype boards that will be delivered to ABG Tag and Traq Inc. The two boards on the bottom have the Top Hat Monopole and surface mount SMP connector attached.

Delivery to ABG Tag and Traq Inc.:

- Quantity 1: Original circuit board
- Quantity 1: Prototype strip line circuit board
- Quantity 1: Prototype strip line circuit board with attached SMA connector
- Quantity 2: Prototype coax-via circuit board with attached SMP and Top Hat Monopole Antenna