

Regulatory WLAN Antenna Information

	Vendor Name	Project Code
OEM	Acer Incorporated	
ODM	Quanta / Compal / Wistron	
Antenna	Wistron Neweb Corporation	EBJ

Provided By Wistron NeWeb Corp	Reviewed By Wistron NeWeb Corp
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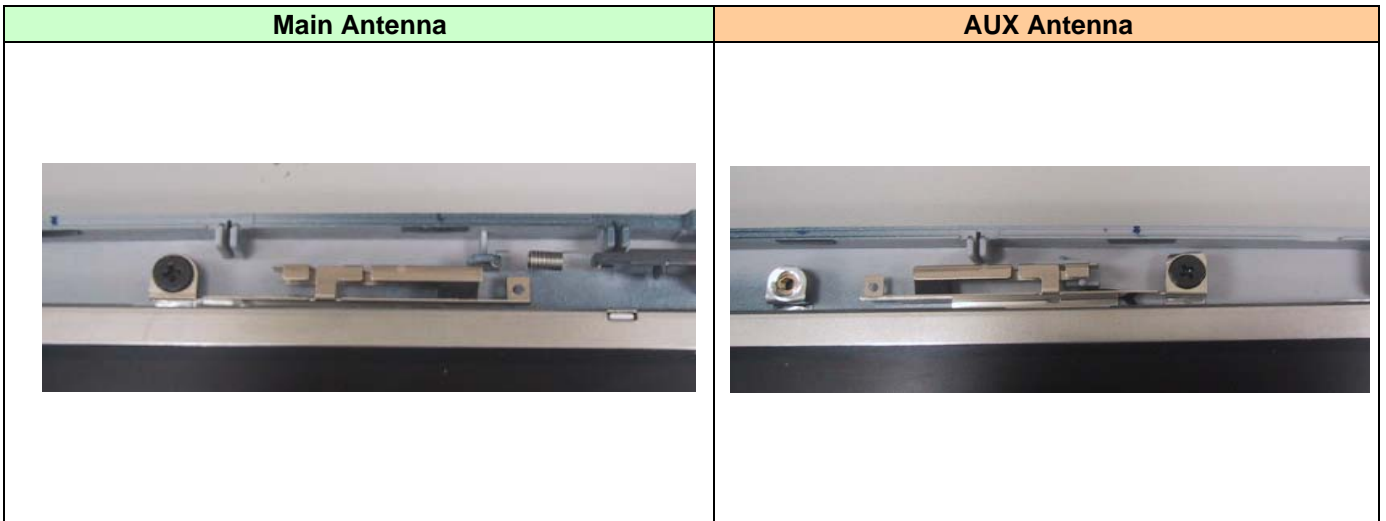
Antenna Information

Section 1. Antenna Assembly Specifications

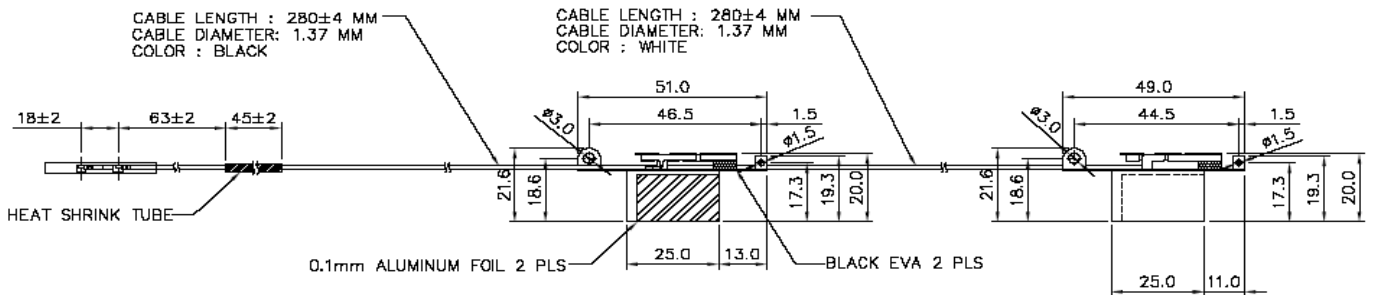
Antenna Assembly Summary:

1A Antenna Part Number	1B Manufacture	1C Antenna Type	1D Cable Assembly Part Number and Information	1E Peak Gain W/ Cable loss (dBi)	1F Peak Gain w/o Cable Loss (dBi)	1G VSWR	1H Cable Loss (dBi)
Main Antenna (WNC P/N: 81.EBJ15.006)	Wistron Newweb Corporation	PIFA	P/N: WN-S-1.37-280W-(2-2-1)&280B-(2-2-1) 50 ohm Coaxial. length: 280 mm diameter: 1.37 mm Connector: IPEX	2400-2500MHz 4.96 dBi (peak)	2400-2500MHz 5.87 dBi (peak)	2400-2500MHz 2.0 max	2400-2500MHz 0.91 dBi (peak)
				4900-5350MHz 4.86 dBi (peak)	4900-5350MHz 6.08 dBi (peak)	4900-5350MHz 2.5 max	4900-5350MHz 1.22 dBi (peak)
				5470-5725MHz 4.93 dBi (peak)	5470-5725MHz 6.21 dBi (peak)	5470-5725MHz 2.5 max	5470-5725MHz 1.29 dBi (peak)
				5725-5875MHz 3.87 dBi (peak)	5725-5875MHz 5.18 dBi (peak)	5725-5875MHz 2.5 max	5725-5875MHz 1.30 dBi (peak)
AUX Antenna (WNC P/N: 81.EBJ15.006)	Wistron Newweb Corporation	PIFA	P/N: WN-S-1.37-280W-(2-2-1)&280B-(2-2-1) 50 ohm Coaxial. length: 280 mm diameter: 1.37 mm Connector: IPEX	2400-2500MHz 4.01 dBi (peak)	2400-2500MHz 4.92 dBi (peak)	2400-2500MHz 2.0 max	2400-2500MHz 0.91 dBi (peak)
				4900-5350MHz 4.87 dBi (peak)	4900-5350MHz 6.08 dBi (peak)	4900-5350MHz 2.5 max	4900-5350MHz 1.22 dBi (peak)
				5470-5725MHz 4.94 dBi (peak)	5470-5725MHz 6.23 dBi (peak)	5470-5725MHz 2.5 max	5470-5725MHz 1.29 dBi (peak)
				5725-5875MHz 3.66 dBi (peak)	5725-5875MHz 4.96 dBi (peak)	5725-5875MHz 2.5 max	5725-5875MHz 1.30 dBi (peak)

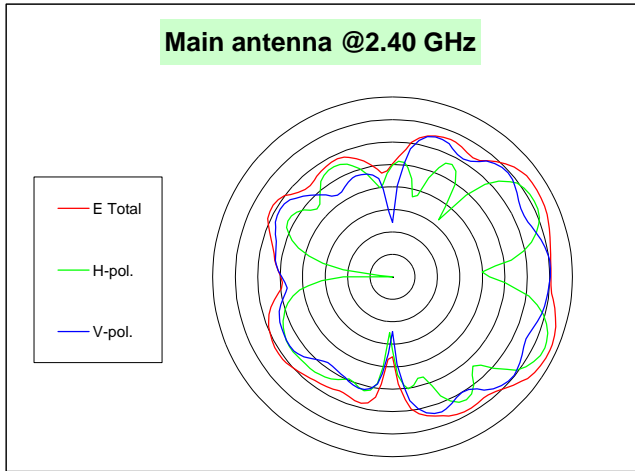
Section 2.1 Antenna Photos



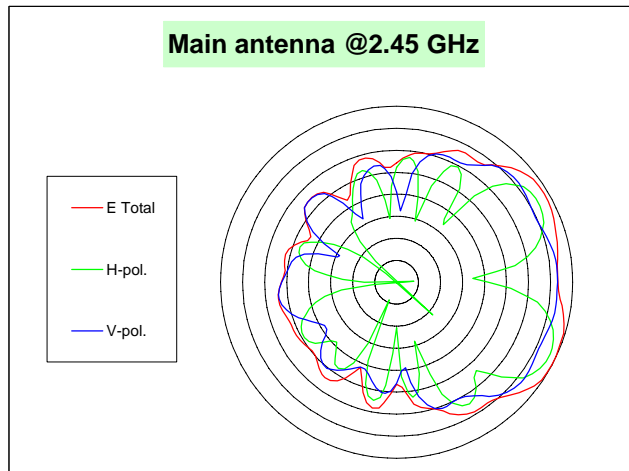
Section 2.2 Dimensioned Drawings of Antennas



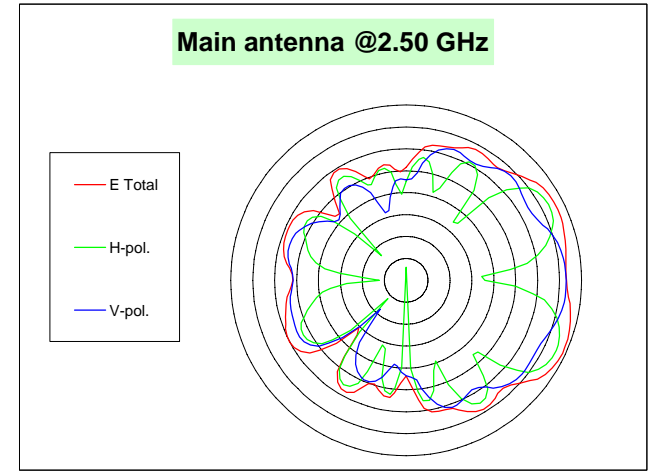
2G4 ISM (2.400 GHz - 2.4835 GHz) Antenna Radiation Patterns



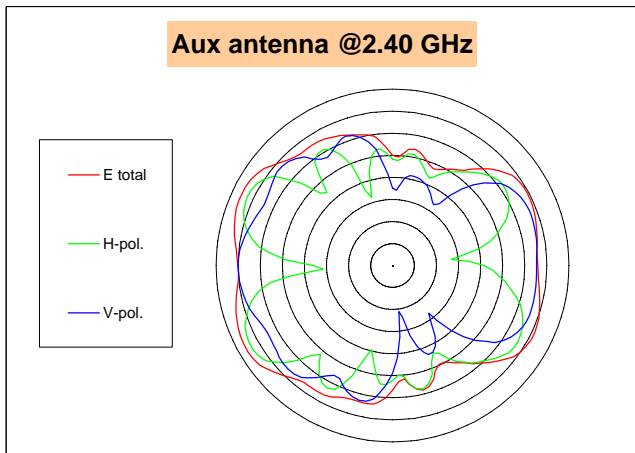
	Total	H-pol	V pol
Peak Gain	3.67	2.39	0.16
Average Gain	-2.87	-7.05	-5.41



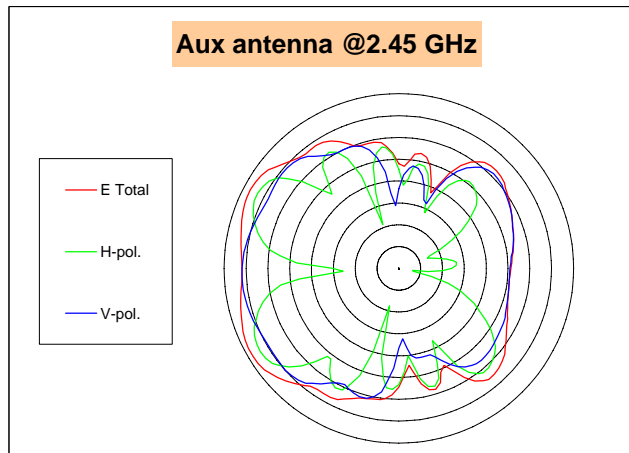
	Total	H-pol	V pol
Peak Gain	4.96	3.57	1.61
Average Gain	-2.78	-7.39	-5.07



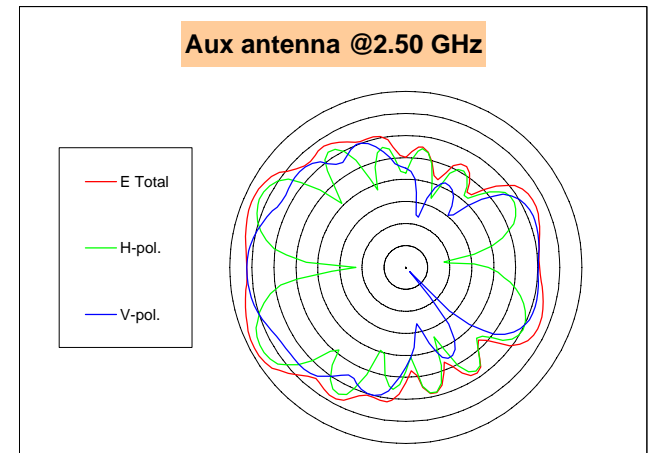
	Total	H-pol	V pol
Peak Gain	4.31	2.83	1.51
Average Gain	-2.95	-7.05	-5.64



	Total	H-pol	V pol
Peak Gain	3.20	1.94	0.00
Average Gain	-1.90	-5.75	-4.92



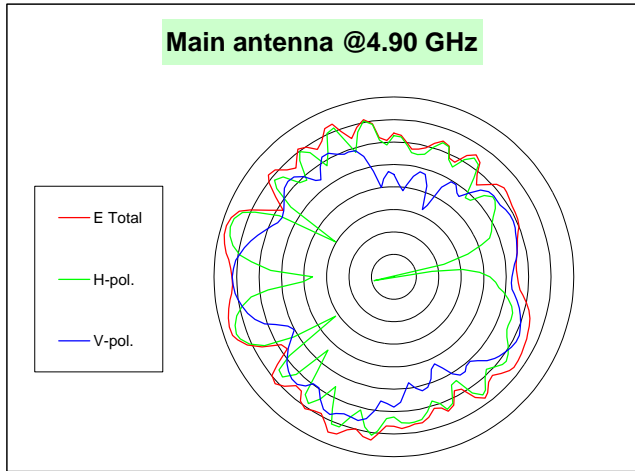
	Total	H-pol	V pol
Peak Gain	4.01	1.99	0.99
Average Gain	-2.71	-7.58	-4.96



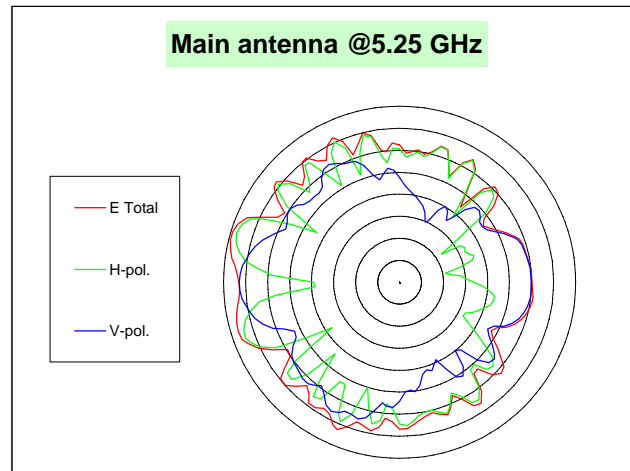
	Total	H-pol	V pol
Peak Gain	3.98	2.60	1.13
Average Gain	-2.65	-6.42	-5.74

Note: The outer circle approximately represents the 5 dBi gain circle.
 Each circle with 5 dBi difference (Max=5 dBi and Min=-35 dBi)

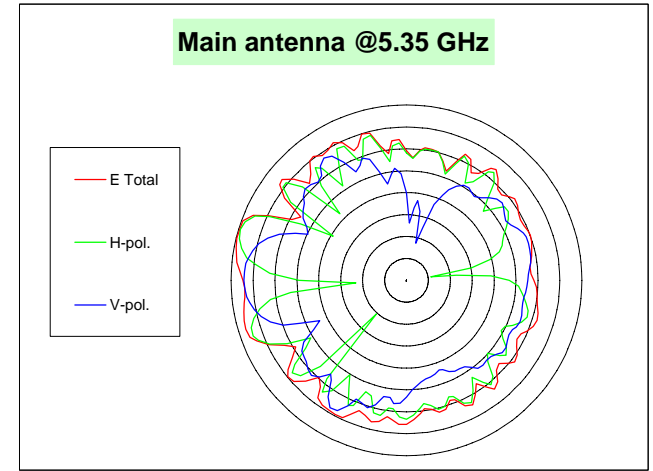
UII Band (4.900 GHz - 5.350 GHz) Antenna Radiation Patterns



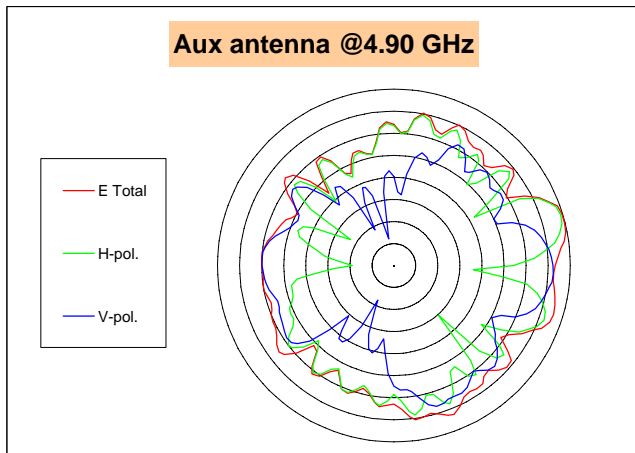
	Total	H-pol	V pol
Peak Gain	3.93	3.04	0.92
Average Gain	-1.62	-4.22	-5.95



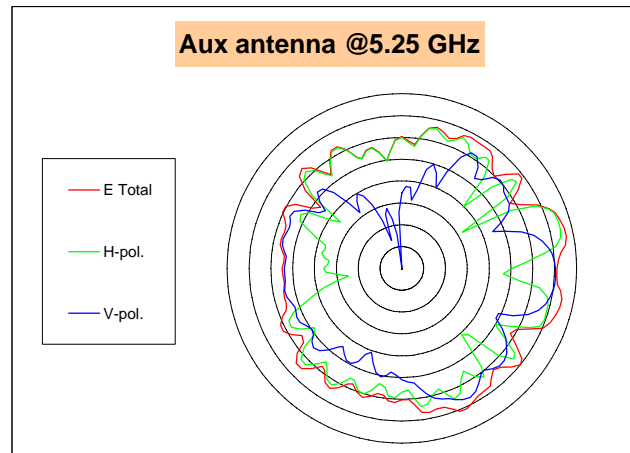
	Total	H-pol	V pol
Peak Gain	4.63	3.66	1.43
Average Gain	-2.36	-5.26	-6.59



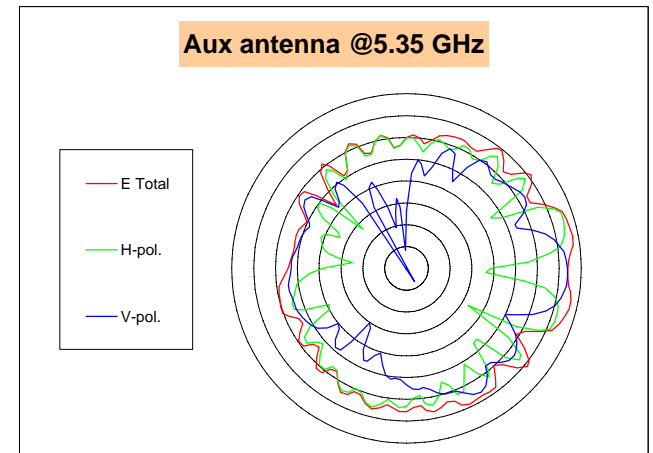
	Total	H-pol	V pol
Peak Gain	4.86	4.62	2.06
Average Gain	-2.19	-4.85	-6.40



	Total	H-pol	V pol
Peak Gain	4.87	4.56	1.25
Average Gain	-2.48	-5.18	-6.96



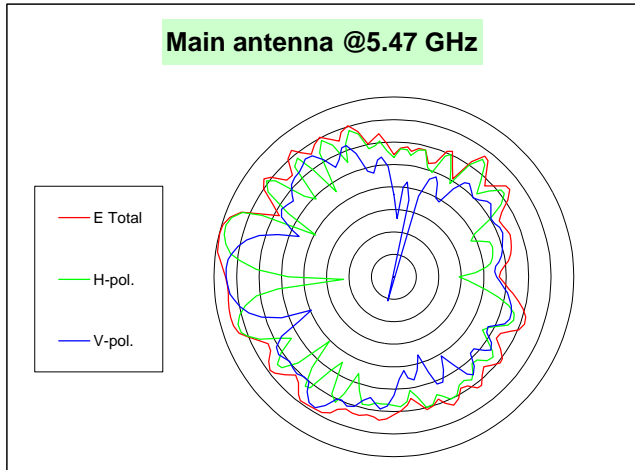
	Total	H-pol	V pol
Peak Gain	3.39	2.36	0.24
Average Gain	-3.08	-5.71	-7.57



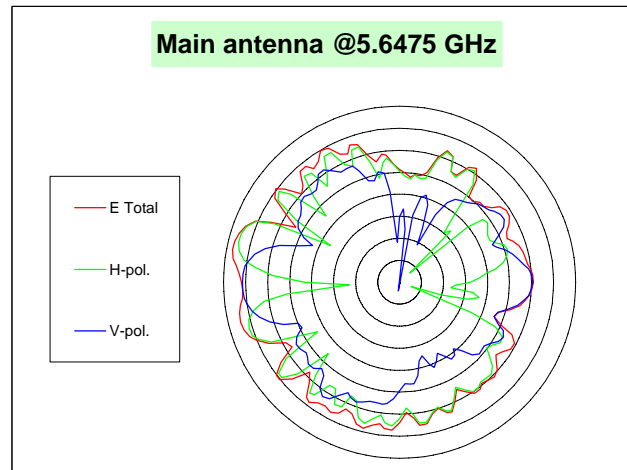
	Total	H-pol	V pol
Peak Gain	3.74	2.58	1.96
Average Gain	-2.86	-5.62	-7.14

Note: The outer circle approximately represents the 5 dBi gain circle.
Each circle with 5 dBi difference (Max=5 dBi and Min=-35 dBi)

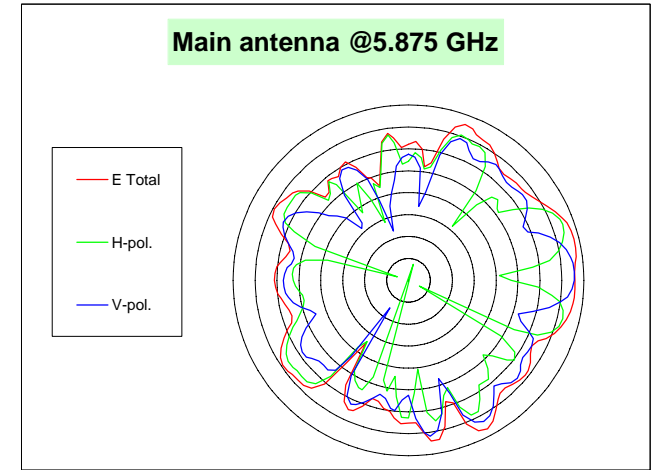
HyperLAN (5.470 GHz - 5.875 GHz) Antenna Radiation Patterns



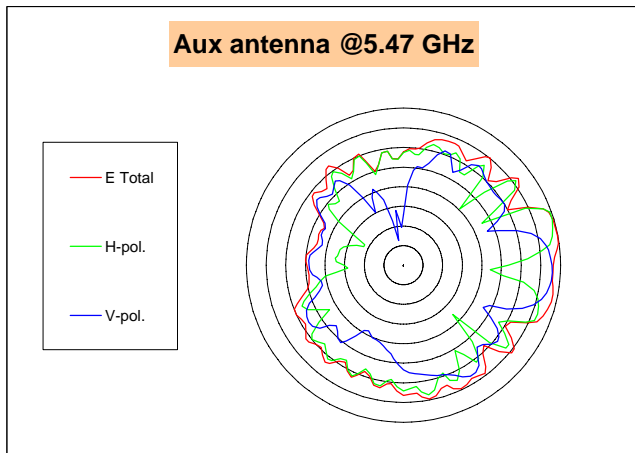
	Total	H-pol	V pol
Peak Gain	4.93	4.07	2.34
Average Gain	-2.72	-5.53	-6.78



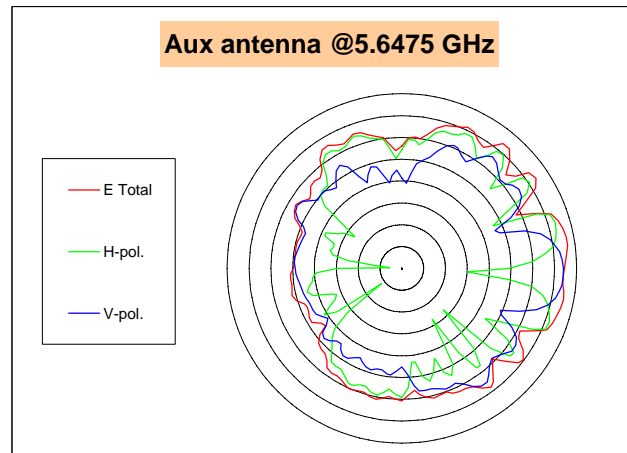
	Total	H-pol	V pol
Peak Gain	3.67	2.68	0.73
Average Gain	-3.35	-5.91	-8.07



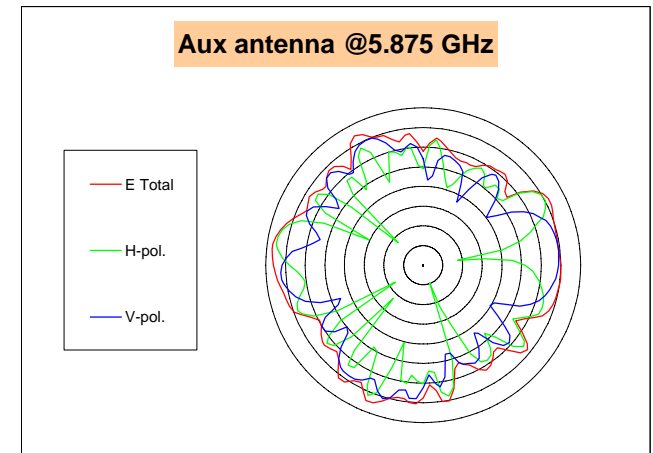
	Total	H-pol	V pol
Peak Gain	3.87	2.45	2.88
Average Gain	-1.65	-5.43	-4.71



	Total	H-pol	V pol
Peak Gain	4.94	4.61	2.98
Average Gain	-2.66	-5.27	-7.01



	Total	H-pol	V pol
Peak Gain	3.31	1.60	1.99
Average Gain	-3.32	-6.61	-6.92



	Total	H-pol	V pol
Peak Gain	3.66	2.71	1.24
Average Gain	-1.52	-5.44	-4.53

Note: The outer circle approximately represents the 5 dBi gain circle.
Each circle with 5 dBi difference (Max=5 dBi and Min=-35 dBi)