

Regulatory WLAN Antenna Information

Antenna information							
Vendor	Type	Antenna Part number (Main/TX2)			Antenna Part number (Aux/ TX1)		
ZTX	PIFA	HQ20604973000 2.00005367			HQ20604974000 2.00005368		
Address of Vendor (Manufacturer)	No. 236, Section 3, Huanbei Road, Zhubei City, Hsinchu County						
Peak gain w/ cable loss (dBi)							
2.4GHz 2400-2500MHz	5.2&5.3GHz 5150-5350MHz	5.5GHz 5470-5725MHz	5.8GHz 5725-5850MHz	6.2GHz 5925-6425MHz	6.5GHz 6425-6525MHz	6.7GHz 6525-6875MHz	6.9GHz 6875-7125MHz
1.32	0.98	0.88	0.8	1.4	-1.49	-1.22	-0.42
Module information							
Model	Form factor and suffixes (NGW/ HMW AND AN/ NB/ BN....)						
AX211NGW (Garfield Peak 2)	Intel Wi-Fi 6E AX211 + BT5.2 (802.11ax 2x2, MU-MIMO, supporting gigabit data rate) M.2						
AX201NGW (Harrison_P eak2)	Intel Wi-Fi 6 AX201 + BT5.2 (802.11ax 2x2, MU-MIMO, supporting gigabit data rate) M.2						
Notes (marked with *)							
* SAR minimum separation (mm) - Regular NB: Minimum antenna-to-body (from antenna bottom to the bottom of the device) - Tablet / Convertible PC: Minimum antenna-to-edge (5 sides of the device)							

Antenna Information

Section 1. Antenna Assembly Specifications

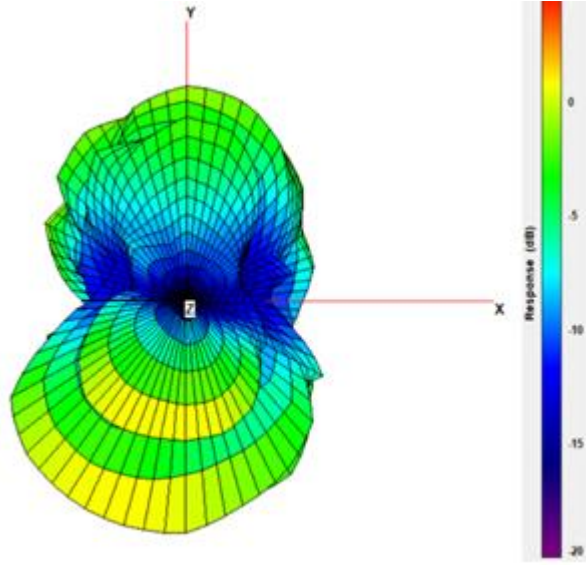
1A Antenna Part Number	1B Manu-facturer	1C Antenna Type	1D Cable Assembly Part Number and Information	Freq Range MHz	1E *Peak Gain W/ Cable loss (dBi)	1F Peak Gain w/o Cable Loss (dBi)	1G Max VSWR	1H Cable Loss (dB)
P/N: HQ20604973000 (Vendor P/N: 2.00005367) Tx1/Main Antenna	ZTX	PIFA	1)cable p/n: GBE/Shen-Yu/YFC/Kaibo 2) 50 ohm coaxial cable 3) length:406.90mm 4) Connector p/n: I-pex:20565-001R-13 KangShuo:MHF-B13-N-01	2400-2500	1.32	2.17	3	1.24
				5150-5250	0.98	2.24	3	1.83
				5250-5350	0.98	2.25	3	1.84
				5470-5725	-0.24	1.06	3	1.89
				5725-5850	-0.24	1.08	3	1.92
				5925-6425	0.88	2.26	3	2.03
				6425-6525	-1.49	-0.08	3	2.08
				6525-6875	-1.22	0.22	3	2.14
P/N: HQ20604974000 (Vendor P/N: 2.00005368) Tx2/Aux Antenna	ZTX	PIFA	1)cable p/n: GBE/Shen-Yu/YFC/Kaibo 2) 50 ohm coaxial cable 3) length:594.00mm 4) Connector p/n: I-pex:20565-001R-13 KangShuo:MHF-B13-N-01	2400-2500	0.16	1.19	3	1.55
				5150-5250	-0.81	0.72	3	2.32
				5250-5350	-0.81	0.73	3	2.33
				5470-5725	0.88	2.46	3	2.39
				5725-5850	0.8	2.4	3	2.42
				5925-6425	1.4	3.08	3	2.54
				6425-6525	-1.57	0.14	3	2.59
				6525-6875	-1.3	0.45	3	2.65
6875-7125	-0.42	1.39	3	2.73				

- Antenna Peak Gain required being test in system basis.
- 1E frame contend absolutely peak antenna gain include H/V

Section 2. Radiation characteristics of antennae Loaded in Host Platform

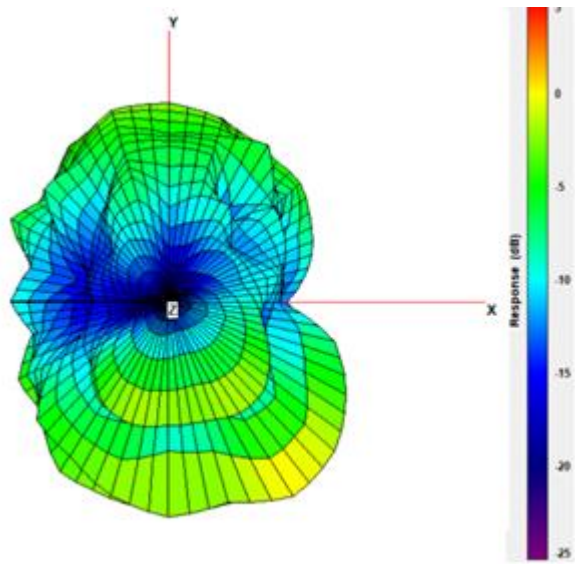
2400-2500MHz radiation characteristic (1E Peak Gain W/ Cable loss (dBi))

Main antenna:



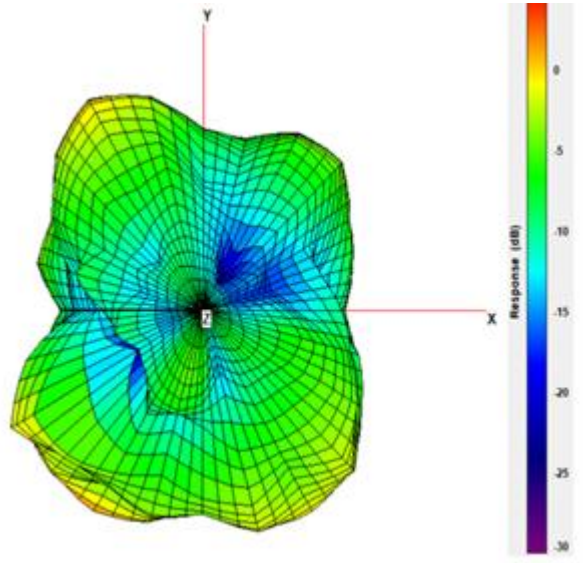
Center Frequency	2400-2500 MHz
Horizontal+ Vertical (dBi) peak	1.32

Aux antenna:



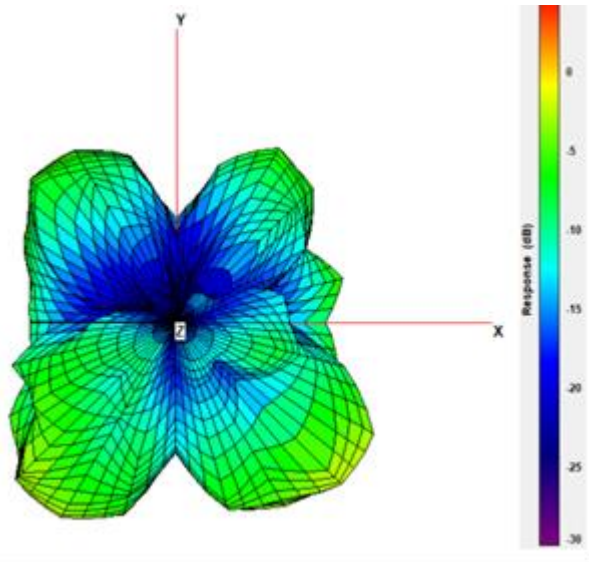
Center Frequency	2400-2500 MHz
Horizontal+ Vertical (dBi) peak	0.16

5150-5250MHz radiation characteristic
Main antenna:



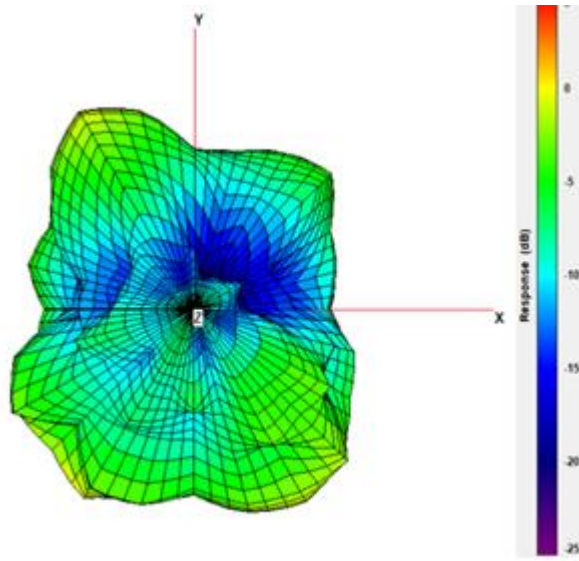
Horizontal+ Vertical (dBi) peak	0.98
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Aux antenna:



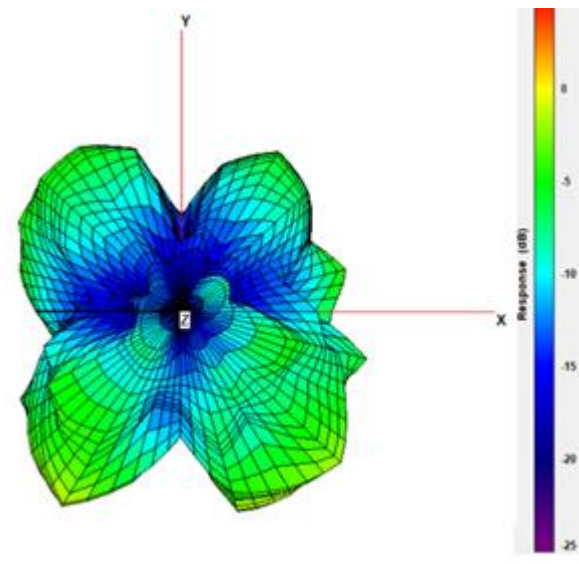
Horizontal+ Vertical (dBi) peak	-0.81
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5250-5350MHz radiation characteristic
Main antenna:



Horizontal+ Vertical (dBi) peak	0.98
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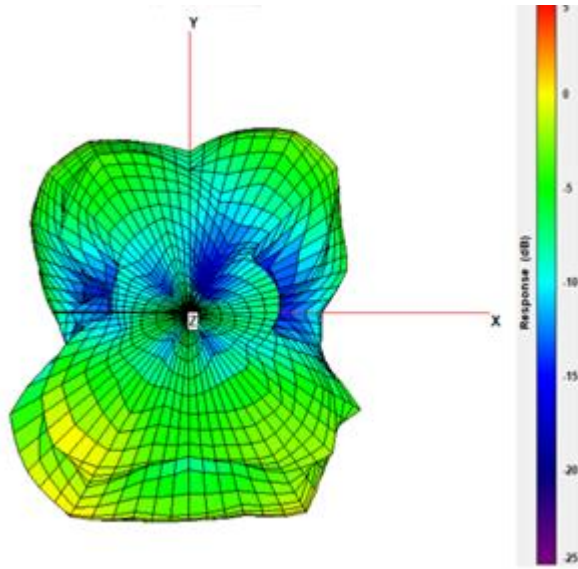
Aux antenna:



Horizontal+ Vertical (dBi) peak	-0.81
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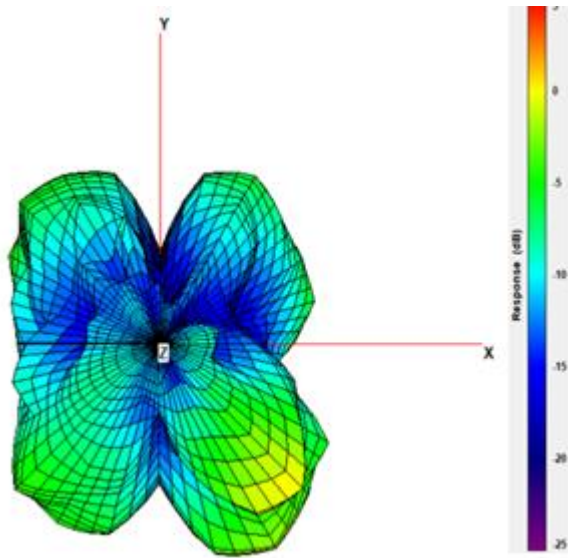
5470-5725MHz radiation characteristic(1E Peak Gain W/ Cable loss (dBi))

Main antenna:



Horizontal+ Vertical (dBi) peak	-0.24
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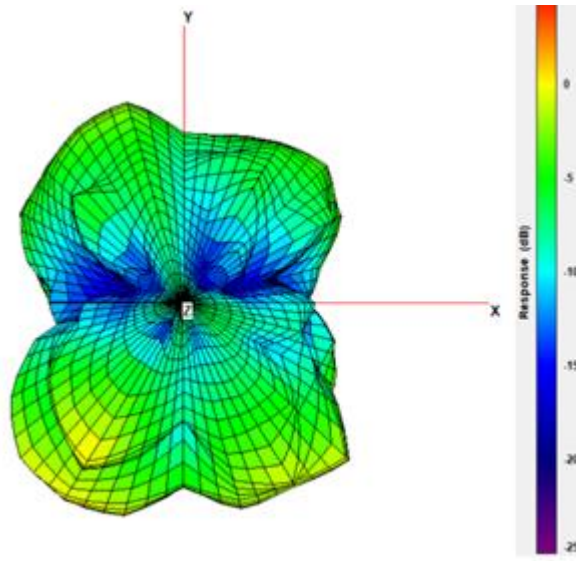
Aux antenna:



Horizontal+ Vertical (dBi) peak	0.88
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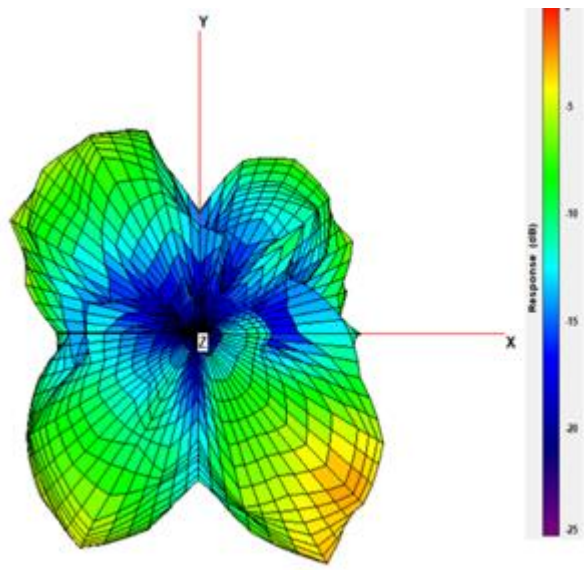
5725-5850MHz radiation characteristic(1E Peak Gain W/ Cable loss (dBi))

Main antenna:



Horizontal+ Vertical (dBi) peak	-0.24
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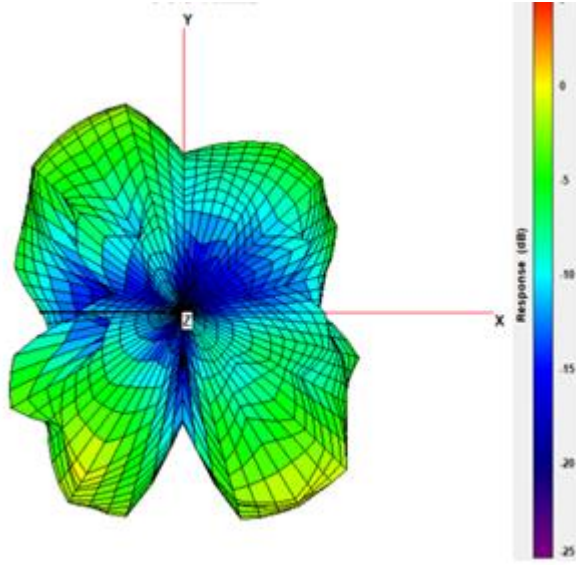
Aux antenna:



Horizontal+ Vertical (dBi) peak	0.8
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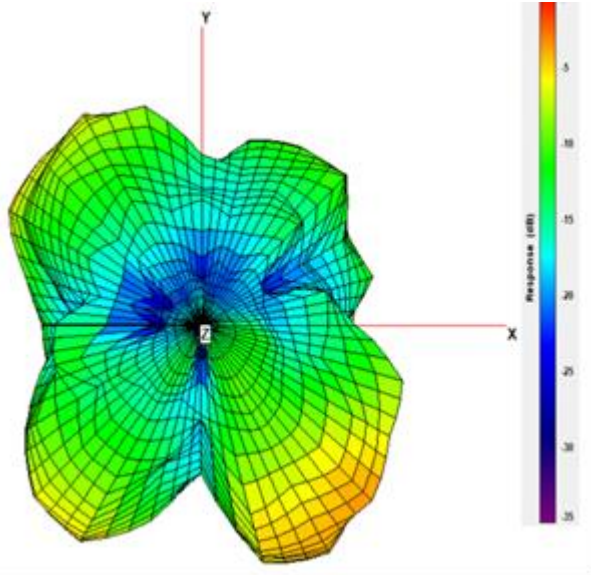
5925-6425MHz radiation characteristic(1E Peak Gain W/ Cable loss (dBi))

Main antenna:



Horizontal+ Vertical (dBi) peak	0.88
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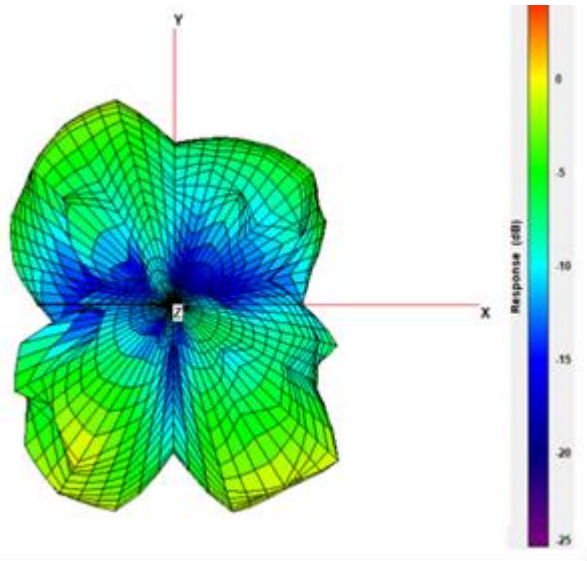
Aux antenna:



Horizontal+ Vertical (dBi) peak	1.4
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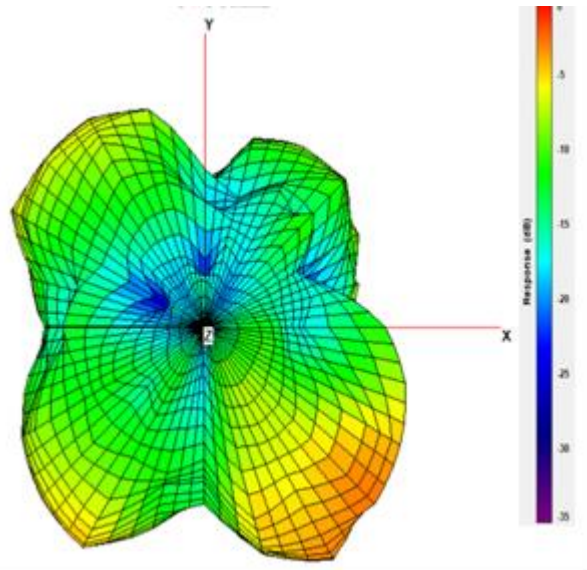
6425-6525MHz radiation characteristic (1E Peak Gain W/ Cable loss (dBi))

Main antenna:



Horizontal+ Vertical (dBi) peak	-1.49
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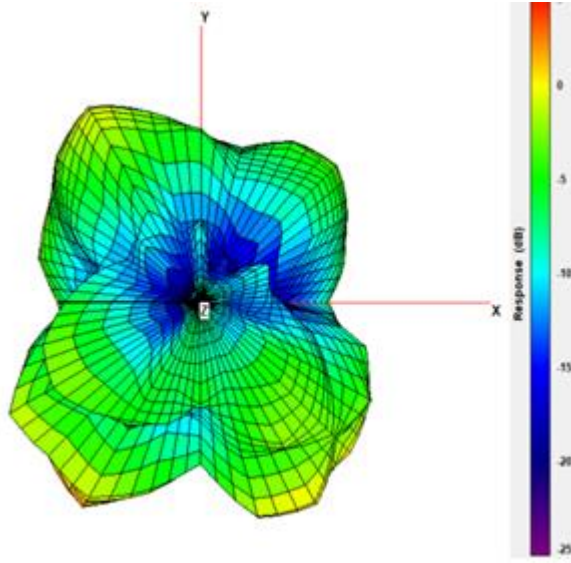
Aux antenna:



Horizontal+ Vertical (dBi) peak	-1.57
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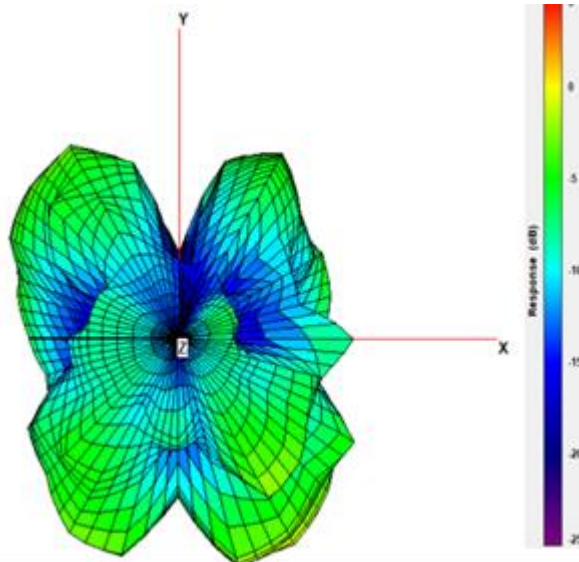
6525-6875MHz radiation characteristic(1E Peak Gain W/ Cable loss (dBi))

Main antenna:



Horizontal+ Vertical (dBi) peak	-1.22
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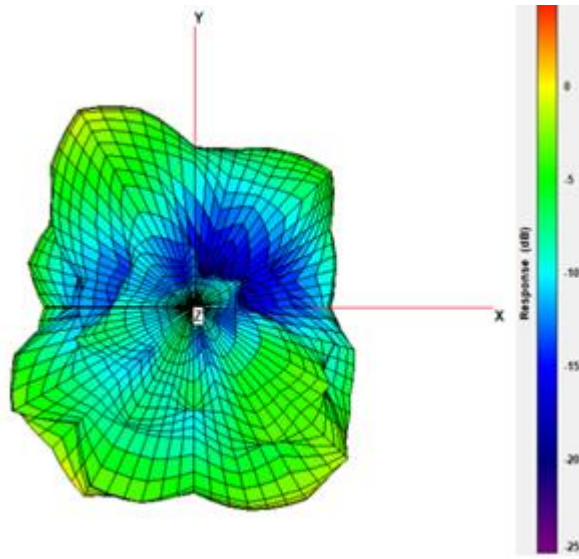
Aux antenna:



Horizontal+ Vertical (dBi) peak	-1.3
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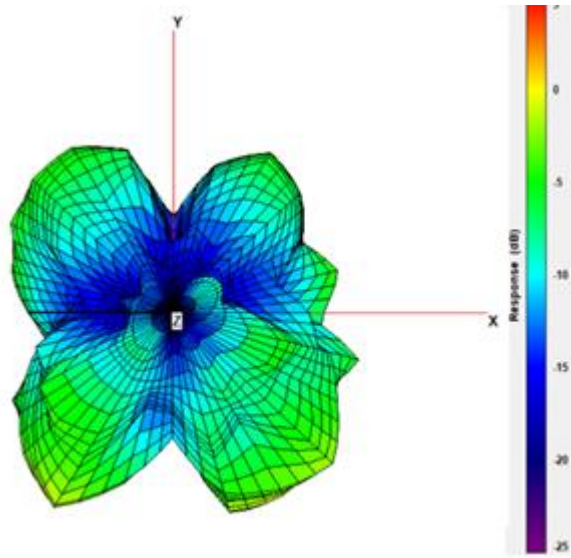
6875-7125MHz radiation characteristic(1E Peak Gain W/ Cable loss (dBi))

Main antenna:



Horizontal+ Vertical (dBi) peak	-0.56
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Aux antenna:



Horizontal+ Vertical (dBi) peak	-0.42
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