

19.27883

Direction B = Indoor Sector

2W B41 eNB + Dual Band Concurrent Wifi AP



Direction A = Outdoor Sector

Mode 1

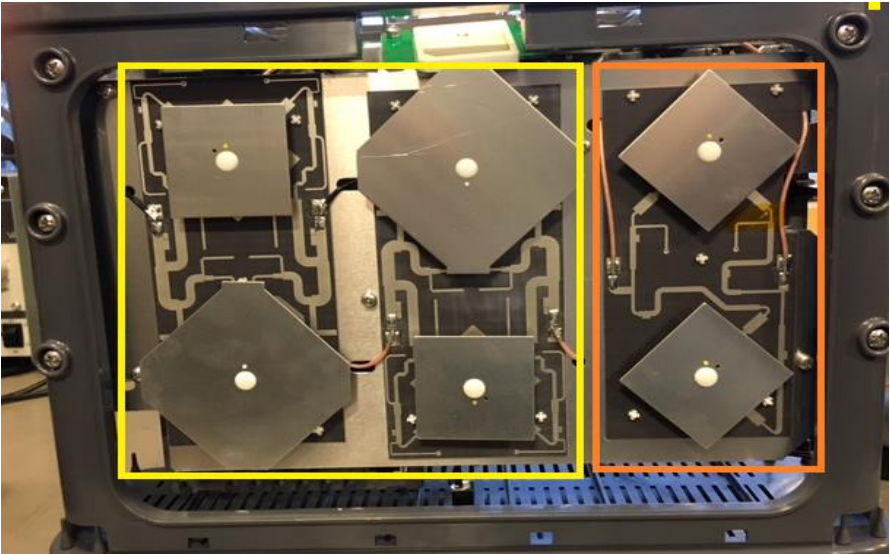
5W B41 eNB + UE Relay in B41 at 2 x 23dBm

Mode 2

5W B41 eNB + UE Relay in B25 at 2 x 20dBm

Outdoor sector

Backhaul (Band 25) (UE Relay: Sercom)		Access (Ba: 19.27883 (eNB: Airspan)	
Pout	20 dBm (capped)	27.75 dBm total power (worst case)	
Antenna	6 dBi	10 dBi for both elements combined	
2 x 2	29		
Burst	0.794328235 W	5.956621	
Duty Cycle	1	0.742857	
Average Pout	794.3282347 mW	4424.919 mW	
Total	5219.247015 mW		
20cm Distance from enclosure	0.925861608 mW/cm^2		
Threshold	1 mW/cm^2		
	0.92612372 mW/cm^2		
antenna spacing from enclosure	1.18 cm		

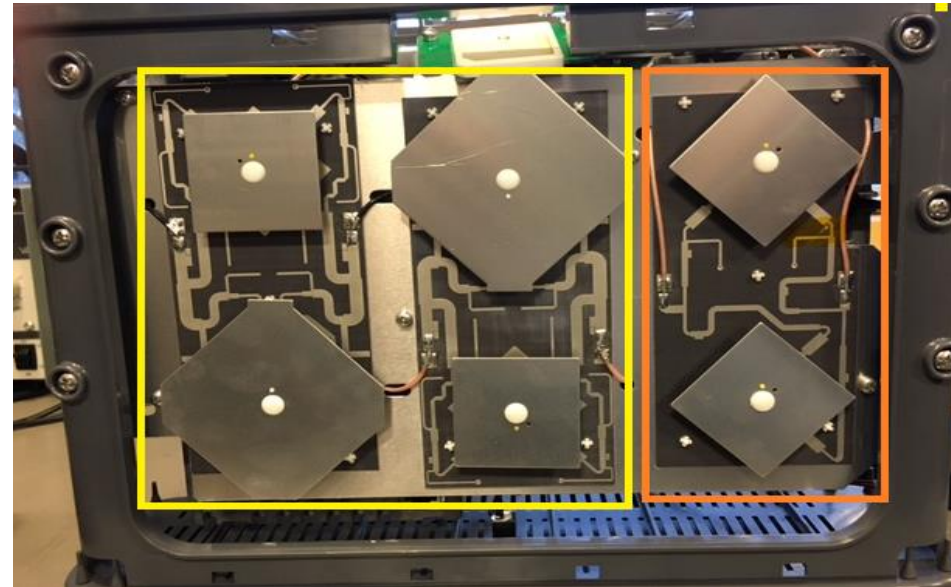


Backhaul Antenna

eNB antenna

Backhaul (Band 41) (UE Relay: Sercom)	
Pout	23 dBm
Antenna	7.5 dBi
2x2	33.5
Burst	2.238721139 W
Duty Cycle	0.228571429
Average Pout	511.7076888
Total	4936.626469 mW
20cm Distance	0.982110631 mW/cm ²
Threshold	1 mW/cm ²

Access (Band 41) (eNB: Airspan)	
19.27883	
27.75 dBm total power (worst case)	
10 dBi for both elements combined	
	5.956621
	0.742857
Average Pout	4424.919



Wifi 2.4	
Pout	21.34 dBm
Antenna	7 dBi
2 x 2	31.34
Burst	1.361445 W
Duty Cycle	1
Average Pout	1361.445
Total	3419.586 mW
20cm Distance	0.680305 mW/cm ²
Threshold	1 mW/cm ²
	0.680498 mW/cm ²

Wifi 5.0	
Pout	19.27883 dBm
Antenna	8 dBi
1x1	27.27883
Burst	0.534421 W
Duty Cycle	1
Average Pout	534.4209

Access (Band 41)	
(eNB: Airspan)	
Pout	24.12 dBm total power (worst case)
Antenna	9 dBi for both elements combined
2 x2	
Burst	2.051162
Duty Cycle	0.742857
Average Pout	1523.72

