

Date: 30 September 2025

To: **Telecommunication Certification Body**

MiCOM Labs Inc.

575 Boulder Court

Pleasanton, CA

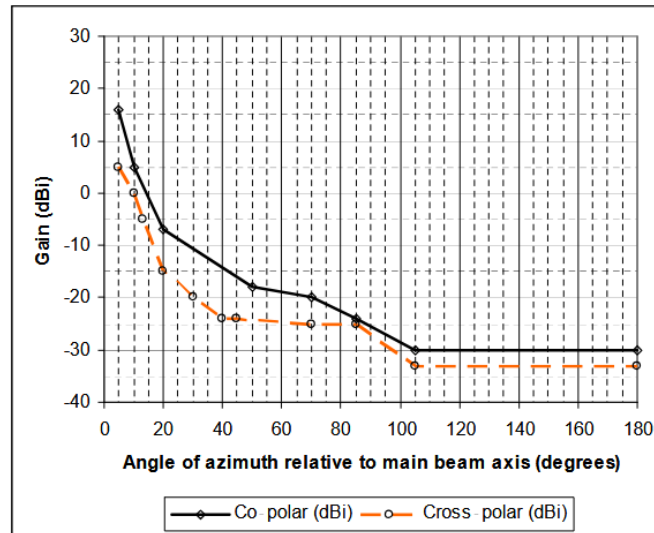
94566

USA

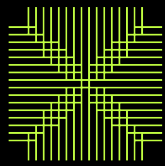
Subject: on parameters of antennas to be used with the product, FCC ID: 2BQTZ-QSR5-EXT

Astra Wireless Technology FZ-LLC states that the equipment Quasar 5, model QSR5-E, FCC ID: 2BQTZ-QSR5-EXT is intended for professional installation only and antennas to be used with it must possess the following characteristics:

- Antenna gain (G): $26\text{dBi} \leq G \leq 28\text{dBi}$ within the frequency band of operation;
- Frequency band of operation: includes or limited to 5725-5850 MHz;
- Antenna type: flat panel antenna array, parabolic dish antenna;
- Directivity pattern: as per ETSI EN 302 217-4 V2.1.1, Class 4



Angle (°)	Co-polar (dBi)	Angle (°)	Cross-polar (dBi)
5	16	5	5
10	5	10	0
20	-7	13	-5
50	-18	20	-15
70	-20	30	-20
85	-24	40	-24
105	-30	45	-24
180	-30	70	-25
		85	-25
		105	-33
		180	-33



Astra Wireless

T1-4F-63, RAKEZ Amenity Center
Al Hamra Industrial Zone-FZ
RAK, United Arab Emirates
www.astrawireless.net
astra@astrawireless.net

The rationale behind this definition is:

- that the equipment 2BQTZ-QSR5-EXT has been tested in conjunction with a flat panel antenna of 28dBi gain and found compliant with essential requirements of FCC rules;
- that there is a related equipment model Quasar 5, QSR5-26 (FCC ID: 2BQTZ-QSR5-INT) that is similar in RF circuitry and software to 2BQTZ-QSR5-EXT with the main difference being that QSR5-26 (2BQTZ-QSR5-INT) is equipped with an integrated parabolic dish antenna of 26dBi gain. This model has been ruled compliant with the essential requirements of FCC rules;
- that radiation patterns of both flat panel antenna arrays and parabolic dish antennas are greatly directional and demonstrate similar levels of sidelobes and overall similar shapes.

Based on test evidence, it is a reliable approximation that the equipment 2BQTZ-QSR5-EXT will remain compliant with the FCC requirements if used with an antenna fitting the above description.

Sincerely,

Hamza Mahgoub

Astra Wireless General Manager

