ANTENNA GAIN CALCULATION

Effective Isotropic Radiated Power (EIRP) in dBi = Conducted Output power (Pc) (dBm) + Antenna gain (G) (dBi)

So

G = EIRP - Pc

EIRP = Field Strength measurements at 3m in dBµV/m - 95.23 (3m conversion to dBm)
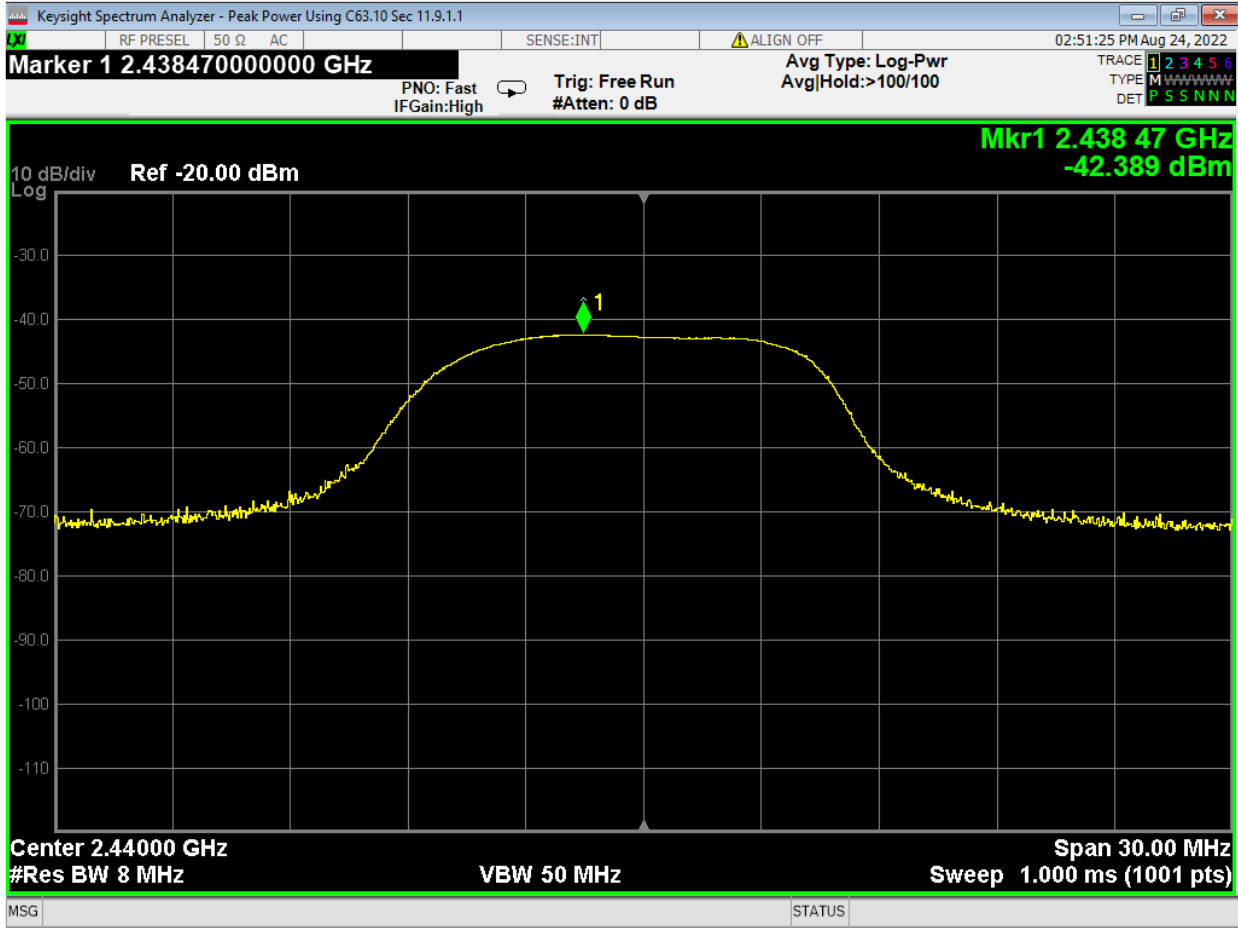
EIRP = 6.245 dBm (taken from field strength measurement)

Pc = 8.26 dBm (6.7 mW) -taken from original grant, which was higher than measured value for C2PC.

Gain = -2.015 dBi

For RF exposure calculations, gain was rounded up to 0 dBi, which would be worse-case.

See NCEE Labs report R20210610-20-E1 for a record of measurements.

SA reading, Peak, MAX hold = -42.389 dBm

Transducer = 28.304

Cable = 8.56

EIRP Conversion = 11.77

SA reading + Transducer + Cable + EIRP conversion = 6.245 dBm EIRP