

Equivalent Isotropic Radiated Power (EIRP)

FCC Rule: 15.236 (d)

EIRP = max. conducted output power + antenna gain

EIRP = 15.78 dBm + (2.08 dBi [antenna gain claimed by manufacturer]) = 17.86 dBm = 61.0942 mW

Exemption Limits for Routine Evaluation according to FCC KDB Publication

RESULT:

Test standard : FCC KDB Publication
447498 D01 General RF Exposure Guidance v06

Exemption Limits for Routine Evaluation – SAR Evaluation

SAR evaluation is required if the separation distance between the user and/or bystander and the antenna and/or radiating element of the device is less than or equal to 20 cm, except when the device operates at or below the applicable output power level (adjusted for tune-up tolerance) for the specified separation distance defined in Table .

Table: SAR evaluation — Exemption limits for routine evaluation based on frequency and separation distance

MHz	5	10	15	20	25	mm
540.125	20.60	42.19	62.79	83.62	104.98	SAR Test Exclusion Threshold (mW)

MHz	30	35	40	45	50	mm
540.125	125.57	147.17	167.76	188.59	209.95	SAR Test Exclusion Threshold (mW)

Output power level shall be the higher of the maximum conducted or equivalent isotropically radiated power (e.i.r.p.) source-based, time-averaged output power.

Established separation distance is 15 mm.

Operating frequency band: 540.125~569.875 MHz

Max. output power level at 15 mm separation distance at 540.125 MHz according to table is: 62.79 mW

The product is exempt from SAR Evaluation/Testing because the output power of 61.0942 mW is below the exemption limit of 62.79 mW.