

US Tech Test Report
FCC ID:
Test Report Number:
Issue date:
Customer:
Model:

FCC Part 15.209/249
2AXLF-SHIFTP
20-0242
December 4, 2020
FAAFTECH TECNOLOGIA LTDA
SP(NN)+

MPE/SAR exclusion

SAR Exclusion:

General SAR test exclusion per KDB 447498 D01 V06 section 4.3

Test exclusion conditions are based on source-based time averaged maximum conducted output power of the RF channel, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.

For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$$[(\text{max. power of channel mW}) / (\text{min. test separation distance, mm})] * [(\sqrt{f_{\text{GHz}}})]$$

Where the result must be ≤ 3.0 for 1-g SAR and ≤ 7.0 for 10-g SAR

EUT source based time averaged (SBTA) = (output power + antenna gain * duty cycle)

$$\text{SBTA} = 0.0 \text{ dBm} + 2.0 \text{ dBi} * (1.0) = 2.0 \text{ dBm} = 1.58 \text{ mW}$$

$$1.58 \text{ mW} / 50 \text{ mm} * (\sqrt{2.44 \text{ GHz}}) = 0.049 \ll 3.0 \text{ for 1-g SAR and } \leq 7.0 \text{ for 10-g SAR}$$

EUT meets the requirements for ≤ 50 mm separation distance.

All calculations performed by:

Test Engineer: George Yang

Date: December 4, 2020

Signature: 