

RF Exposure Report

(Part 0: SAR Char Evaluation)

FCC ID : 2ABTU-FN990A28
Equipment : TABLET
Brand Name : RuggON
Model No. : SOL 7, SOL 7EEEEEE (E= 10 characters, E can be 0 to 9, A to Z, a to z, "/", "\", "-", "_" or blank for marketing purpose)
Applicant : RuggON Corporation
4F, No. 298, Yang Guan St., Neihu Dist., Taipei City, Taiwan
Standard : FCC 47 CFR Part 2 (2.1093)

We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.



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History of this test report

Report No.	Version	Description	Issued Date
FA561215A	01	Initial issue of report	Oct. 15, 2025



1. Introduction

The FCC RF exposure limit is defined based on time-averaged RF exposure. The product implements Qualcomm Smart Transmit feature which controls the instantaneous transmitting power for WWAN transmitter to ensure the product in compliance with FCC RF exposure limit over a defined time window, for SAR (transmit frequency $\leq 6\text{GHz}$) to control and manage transmitting power in real time and to ensure at all times the time-averaged RF exposure is compliant to the regulation requirement. Cannot operate without SAR characterization at the device level, beforehand.

This report describes the procedures for the SAR char and the parameters obtained from SAR characterization (referred to as SAR char respectively) will be used as input for Smart Transmit. Both SAR char will be entered via the Embedded File System (EFS) to enable the Smart Transmit Feature.

Terminologies in this report

Plimit	The time-averaged RF power which corresponds to SAR_design_target.
Pmax	Maximum target power level
SAR_design_target:	The design target for SAR compliance. It should be less than regulatory power density limit to account for all device design related uncertainties.
SAR char	Plimit for all the technologies/bands for all applicable DSI

2. SAR Characterization

SAR char must be generated to cover all radio configurations and usage scenarios that the wireless device supports for operating at 6 GHz or below. It will then be used as input for Smart Transmit to control and manage RF exposure for $f < 6\text{GHz}$.

2.1 SAR design target and uncertainty

<SAR design target and uncertainty>

The detail SAR design target relate to each exposure conditions pls refer to operation description

To account for total uncertainty, SAR_design_target should be determined as:

Band	Antenna	1g SAR design target (W/kg)	duty cycle	Tolerance (dB)
WCDMA II	0	0.952	100.00%	1
WCDMA IV	0	0.952	100.00%	1
WCDMA V	0	0.952	100.00%	1
LTE Band 7	0	0.952	100.00%	1
LTE Band 12	0	0.952	100.00%	1
LTE Band 13	0	0.952	100.00%	1
LTE Band 14	0	0.952	100.00%	1
LTE Band 25	0	0.952	100.00%	1
LTE Band 26	0	0.952	100.00%	1
LTE Band 30	0	0.952	100.00%	1
LTE Band 66	0	0.952	100.00%	1
LTE Band 71	0	0.952	100.00%	1
LTE Band 41	0	0.952	63.30%	1
LTE Band 41 HPUE	0	0.952	43.30%	1
LTE Band 42	3	0.952	63.30%	1
LTE Band 43	3	0.952	63.30%	1
LTE Band 48	3	0.952	63.30%	1
n5	0	0.952	100.00%	1
n7	0	0.952	100.00%	1
n25	0	0.952	100.00%	1
n30	0	0.952	100.00%	1
n66	0	0.952	100.00%	1
n71	0	0.952	100.00%	1
n38	0	0.952	100.00%	1
n41	0	0.952	100.00%	1
n41 HPUE	0	0.952	50.00%	1
n38	2	0.952	100.00%	1
n41	2	0.952	100.00%	1
n41 HPUE	2	0.952	50.00%	1
n48	1	0.952	100.00%	1
n48	3	0.952	100.00%	1
n77	1	0.952	100.00%	1
n77 HPUE	1	0.952	50.00%	1
n77	3	0.952	100.00%	1
n77 HPUE	3	0.952	50.00%	1

$$SAR_{design_target} < SAR_{regulatory_limit} \times 10^{\frac{-total\ uncertainty}{10}}$$

2.2 SAR Char Table

<P_{limit} for supported technologies and bands (P_{limit} in EFS file)>

*P_{max} is used for RF tune up procedure. The maximum allowed output power is equal to P_{max} + 1dB uncertainty.

**All P_{limit} power levels entered in the Table correspond to average power levels after accounting for duty cycle in the case TDD modulation schemes (for e.g., GSM & LTE TDD & NR TDD).

The max allowed output power is the P_{limit} + 1dB device uncertainty, and if P_{limit} is higher than P_{max}, the device output power will be P_{max} instead.

Band	Antenna	duty cycle	P _{limit} *	P _{max} * (dBm)	Tolerance (dB)
WCDMA II	0	100.00%	23.3	23.5	1
WCDMA IV	0	100.00%	22.4	23.5	1
WCDMA V	0	100.00%	26.3	23.5	1
LTE Band 7	0	100.00%	23.0	23.0	1
LTE Band 12	0	100.00%	26.1	23.0	1
LTE Band 13	0	100.00%	26.2	23.0	1
LTE Band 14	0	100.00%	26.0	23.0	1
LTE Band 25	0	100.00%	23.1	23.0	1
LTE Band 26	0	100.00%	26.6	23.0	1
LTE Band 30	0	100.00%	23.7	22.0	1
LTE Band 66	0	100.00%	22.3	23.0	1
LTE Band 71	0	100.00%	26.4	23.0	1
LTE Band 41	0	63.30%	22.5	21.0	1
LTE Band 41 HPUE	0	43.30%		21.9	1
LTE Band 42	3	63.30%	15.5	19.5	1
LTE Band 43	3	63.30%	15.6	19.5	1
LTE Band 48	3	63.30%	15.8	19.5	1
n5	0	100.00%	26.9	23.5	1
n7	0	100.00%	22.8	23.5	1
n25	0	100.00%	23.5	23.5	1
n30	0	100.00%	23.4	22.0	1
n66	0	100.00%	22.3	23.5	1
n71	0	100.00%	26.9	23.5	1
n38	0	100.00%	21.8	24.0	1
n41	0	100.00%		23.5	1
n41 HPUE	0	50.00%		23.5	1
n38	2	100.00%	19.1	24.0	1
n41	2	100.00%		23.5	1
n41 HPUE	2	50.00%		23.5	1
n48	1	100.00%	15.3	21.5	1
n48	3	100.00%	15.6	21.5	1
n77	1	100.00%	16.0	23.5	1
n77 HPUE	1	50.00%		23.5	1
n77	3	100.00%	15.9	23.5	1
n77 HPUE	3	50.00%		23.5	1