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Absatz <i>Clause</i>	Anforderungen - Prüfungen / <i>Requirements - Tests</i>	Messergebnisse – Bemerkungen/ <i>Measuring results - Remarks</i>	Ergebnis <i>Result</i>	

Appendix 5

RF Exposure Information

FCC ID: 2BGCL-SHOW0003
IC ID: 32529-SHOW0003

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Absatz Clause	Anforderungen - Prüfungen / Requirements - Tests	Messergebnisse – Bemerkungen/ Measuring results - Remarks	Ergebnis Result
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Maximum Transmitter Power

Frequency (MHz)	Maximum peak output power (dBm)	Output power (mW)
2402	-2.80	0.5248
2441	-3.76	0.4207
2480	-5.46	0.2844

Note: The maximum peak field strength was taken from table of "Subclause 15.247(b)(3) / RSS-247 5.4 – Maximum Peak Conducted Output Power".

For FCC

According to KDB 447498 D01:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 5 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$
≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

Result:

$$(0.5248/5) \cdot \sqrt{2.402} = 0.163 < 3.0$$

$$(0.4207/5) \cdot \sqrt{2.441} = 0.131 < 3.0$$

$$(0.2844/5) \cdot \sqrt{2.480} = 0.090 < 3.0$$

Conclusion:

No SAR is required.

For ISED

According to table 11 in RSS-102 Issue 6, below exemption limit is applied:

Frequency: 2450 MHz

At separation distance of ≤ 5mm

Exemption limits: 3mW

Results:

max. power of channel = 0.5248mW < 3mW

Conclusion:

The maximum peak output power of the transmitter is less than the SAR evaluation exemption threshold and hence it complies with the RSS-102 RF exposure requirement.