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RF EXPOSURE CALCULATIONS

Requirement:

According to USA CFR 15 §1.1307 (b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to radio frequency energy level in excess of the Commission's guidelines. For Canada, RSS-102 sets out the requirements and measurement techniques used to evaluate radio frequency (RF) exposure compliance of radiocommunication apparatus designed to be used within the vicinity of the human body.

USA REF: 1.1310, 2.1091/1093, 447498 D01 General RF Exposure Guidance v06

IC REF: RSS-102 Issue 5, Safety Code 6

Min. Sep. Distance: 20 cm (Mobile)

Test Date: 26-Mar-24
Test Engineer: John Nantz
EUT: BOSCH PKM2.2
EUT Mode: Worst Case
Meas. Distance: Conducted

R0	Mode	Freq. MHz	Worst Case EIRP(Pk/Avg)** dBm	Declared Tolerance (dB)	Worst Case EIRP w/ Tolerance dBm	E20cm(Avg) dBuV/m	S20cm(Avg) mW/cm ²	Canada ISED RSS-102 MPE SC6 Limit (S20cm) W/m ²		USA FCC 1.1310 MPE S Limit mW/cm ²	MPE Ratio
R1	BLE/BT	2402	2.0	0.2	2.21	120.9	0.00032	5.5		1.00000	0.0003160
R2	BLE/BT	2440	2.4	0.2	2.6	121.3	0.00035	5.5		1.00000	0.0003457
R3	BLE/BT	2480	1.3	0.2	1.45	120.2	0.00027	5.5		1.00000	0.0002653
R4										MPE Total (<1):	0.0003457
R5										Complies?	Yes
#	C1	C2	C3		C4	C5	C6	C7	C8	C9	Complies?
(ROW)	(COLUMN)	NOTE									Yes

R0 C3 Max of all data rates. As Measured / Computed from highest fundamental emission, see fundamental emission section of this report. Maximum of either EIRP or Pout as measured.
R0 C5 EIRP (mW) = S (mW/cm²) x 4 x PI x 20cm²

Summary:

The EUT with all transmitters is compliant with both the FCC power density limit and the ISED Exposure Evaluation limits.