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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

	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/cm2	Canada ISED RSS-102 MPE		USA FCC 1.1310 MPE		
R0								SC6 Limit (S20cm) W/m2		S Limit mW/cm2	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									Complies?	MPE Total (<1): 0.0003457		
R5										Complies?	Yes	
#	C1	C2	C3		C4	C5	C6	C7	C8	C9	C10	C11
	(ROW)	(COLUMN)	NOTE									
	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	$EIRP(mW) = S(mW/cm^2) \times 4 \times \pi \times 20cm^2$									

Summary:

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